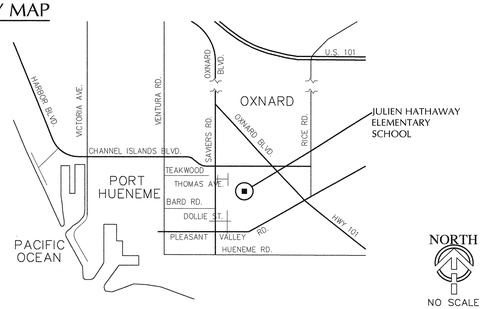
HUENEME ELEMENTARY SCHOOL DISTRICT

JULIEN HATHAWAY ELEMENTARY SCHOOL

RELOCATABLE RESTROOM BUILDING ADDITION

VICINITY MAP



PROJECT SCOPE

1. RELOCATION OF (1) 12'-0"x40'-0" RELOCATABLE RESTROOM BUILDING FROM STOCKPILE, APPLICATION #04-116517.

2. INSTALL A RELOCATABLE RESTROOM BUILDING FROM STOCKPILE AT AN EXISTING ELEMENTARY SCHOOL. THE RELOCATABLE BUILDING IS TO BE OWNER-FURNISHED AND OWNER-INSTALLED. SITE CONTRACTOR TO CARRY OUT ALL OTHER WORK INCLUDING CONNECTION OF UTILITIES TO RELOCATABLE BUILDING.

3. CONSTRUCT NEW ASPHALT CONCRETE AND CONCRETE PAVING AT THE BUILDING SITE.

3. EXTEND EXISTING UTILITIES AS REQUIRED TO SERVE THE BUILDING.

5. REMOVE (E) FIRE ALARM SYSTEM SERVING (E) ADJACENT RELOCATABLE CLASSROOM BUILDINGS AND INSTALL (N) STAND-ALONE FIRE ALARM SYSTEM SERVING (E) ADJACENT RELOCATABLE CLASSROOM BUILDINGS AND (N) RELOCATABLE RESTROOM BUILDING.

4. CONSTRUCT ACCESSIBILITY UPGRADES AS SHOWN IN THESE PLANS. UPGRADES INCLUDE NEW ACCESSIBLE PARKING AND INSTALLATION OF NEW HI-LO DRINKING FOUNTAIN AND CANE DETECTION RAILS.

BID ALTERNATES

NONE.

BID INSTRUCTIONS

NONE.

DEFERRED APPROVALS

NONE.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(APPLICATION NO. 03-119782 FILE NO. 56-12)

☒ The drawings or sheets listed on the cover or index sheet prepared by Silver Creek Industries
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I find that:

☒ All drawings or sheets listed on the cover or index sheet prepared by Silver Creek Industries
☒ ☐ This drawing or page
☒ is/are in general conformance with the project design, and
☒ has/have been coordinated with the project plans and specifications.
have been designed per the PC for the project building climate zone (Zone 6).

Signature — Date: 05/06/19

Architect designated to be in general responsible charge

ROSA E ALVARADO
Printed Name

C-29353 — License Number
09/30/19 — Expiration Date

SHEET INDEX

TOTAL SHEETS: 58

Deterioration or Existing Non-Compliant Construction: If any condition is discovered which, if left uncorrected, would make the building non-compliant with the requirements of the edition of the CBC in force at the time of original construction, the condition must be corrected in accordance with current code requirements.
A construction change document (CCD Type A), or a separate set of plans and specifications detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work.

OWNER CONTACT:

HUENEME ELEMENTARY SCHOOL DISTRICT
205 NORTH VENTURA ROAD
PORT HUENEME, CA 93041
(805) 488-3588, EXT. 9801
ATTN: DAVID RAGSDALE, CTO

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
2. CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, T24 CCR.
3. A DSA CERTIFIED INSPECTOR WITH CLASS 1 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, T24, CCR. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT.
4. APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
5. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR DSA INSPECTION REQUIREMENTS.
9. ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
11. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA. ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AND 2016 CBC REQUIREMENTS AS APPROVED BY DSA AND CONTAINED HEREIN. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
12. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R., OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK..
13. A DSA ACCEPTED TESTING LABORATY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT SHALL CONDUCT
ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
14. ALL WORK (AS APPLICABLE) MUST MEET THE MANDATORY MEASURES OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CAL GREEN) CODE (TITLE 24, PART II).
15. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION TO COMPLY WITH 2016 CALIFORNIA FIRE CODE CHAPTER 33.
16. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS, AND OTHER ACCESS ROUTES FOR FIRE-FIGTHING EQUIPMENT AND/OR PERSONNEL.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2017*
2016 California Administrative Code (CAC), Part 1, Title 24 CCR*
2016 California Building Code (CBC), Part 2, Title 24 CCR
(2015 International Building Code, Vol. 1 & 2, and 2016 California amendments)
2016 California Electrical Code (CEC), Part 3, Title 24 CCR
(2014 National Electrical Code and 2016 California Amendments)
2016 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2015 IAPMO Uniform Mechanical Code and 2016 California amendments)
2016 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2015 IAPMO Uniform Plumbing Code and 2016 California amendments)
2016 California Energy Code (CEC), Part 6, Title 24 CCR
2016 California Fire Code (CFC), Part 9, Title 24 CCR
(2015 International Fire Code and 2016 California Amendments)
2016 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2015 International Existing Building Code and 2016 California Amendments)
2016 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2016 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2013 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 Standard for the Installation of Sprinkler Systems (CA amended)	2016 Edition
NFPA 14 Standard for the Installation of Standpipe and Hose Systems	2013 Edition
NFPA 17 Standard for Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17AStandard for Wet Chemical Extinguishing Systems	2013 Edition
NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection	2016 Edition
NFPA 22 Standard for Water Tanks for Private Fire Protection	2013 Edition
NFPA 24 Standard for the Installation of Private Fire Service Mains and Their Appurtenances	2016 Edition
NFPA 72National Fire Alarm and Signaling Code (CA amended);	2016 Edition
NFPA 80 Standard for Fire Doors and Other Opening Protectives	2016 Edition
NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems	2015 Edition
UL 300 Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment	2005 (R2010)
UL 464 Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories	2003 Edition
UL 521 Standard for Heat Detectors for Fire Protective Signaling Systems	1999 Edition
UL 1971Standard for Signaling Devices for the Hearing Impaired	2002 Edition
ICC 300Standard for Bleachers, Folding and Telescopic Seating, and Grandstands	2012 Edition

For a complete list of applicable NFPA standards refer to 2016 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

*All parts of the 2016 California Building Code become effective January 1, 2017 except the effective date for the use of the 2016 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is February 25, 2016 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 20, 2016.

GEOTECHNICAL REPORT

ENGINEERING GEOLOGY AND GEOTECHNICAL ENGINEERING REPORT FOR PROPOSED MODULAR RESTROOM BUILDING AT JULIEN HATHAWAY ELEMENTARY SCHOOL, 405 E. DOLLIE ST., OXNARD, CALIFORNIA 93033 PREPARED BY:

EARTH SYSTEMS SOUTHERN CALIFORNIA
1731-A WALTER STREET
VENTURA, CALIFORNIA
(805) 642-6727
ATTN: PATRICK BOALES, ENGINEERING GEOLOGIST
ATTN: ANTHONY P MAZZEI, GEOTECHNICAL ENGINEER

PROJECT NO.:	302378-001
ORIGINAL REPORT NO.:	18-9-40
ORIGINAL REPORT DATE:	09/14/2018
UPDATE NO.:	18-9-53
UPDATE DATE:	09/17/2018
UPDATE NO.:	19-3-43
UPDATE DATE:	03/11/2019
SOIL BEARING DESIGN VALUE:	2,000 PSF (SILTY SAND) 2016 CBC TABLE 1806A.2

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC [illegible] FLS [illegible] SS 3T/LA
DATE 05/06/2019

PMSM ARCHITECTS
196 ARCHITECTS
802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

CIVIL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ELECTRICAL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ARCHITECT STAMP

LICENSED ARCHITECT
ROSA E. ALVARADO
C-29353
REN. 09-30-19
STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

TITLE SHEET

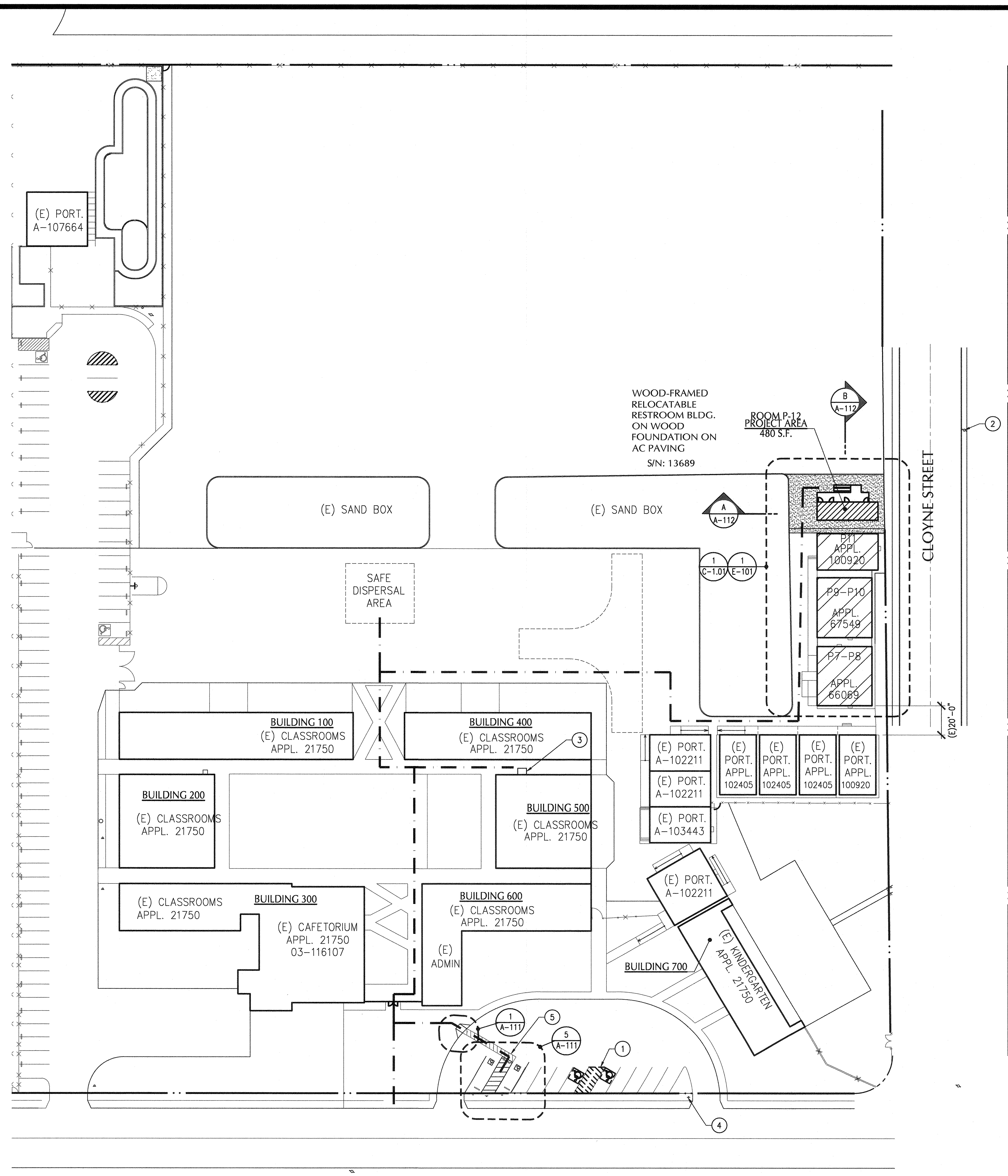
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

G-001

DATE: MAY 6, 2019 SHEET ____ OF ____

PLOT DATE: MAY 06, 2019 - 10:20AM
DRAWING NAME: H:\2018\18001 HESD HATHAWAY ES Relocatable RR Bldg Addition\Drawings\Plot Files\G-001.dwg
PLOT BY: MHARTMANN



DOLLIE STREET

1 HATHAWAY ELEMENTARY SCHOOL - SITE PLAN
1" = 40'-0"

N

BUILDING DATA

BLDG	OCC. TYPE	CONST TYPE	SPRNKLR	BLDG HEIGHT	BLDG AREA	ROOF OH	TOTAL AREA	ALLOW. AREA
P7-P-12	E	VB	NO	(E) 12'-6"±	4,320 SF	- SF	4,320 SF	9,500 SF

BUILDING INFO

BUILDING/ RELOCATABLE NAME	USE	DSA 'A' NO.	ORIGINAL DSA NO.
100	(E) CLASSROOMS	-	21750
200	(E) CLASSROOMS	-	21750
300	(E) CAFET., CLSSRMS.	03-116107	21750
400	(E) CLASSROOMS	-	21750
500	(E) CLASSROOMS	-	21750
600	(E) ADMIN., CLSSRMS.	-	21750
700	(E) KINDERGARTEN	-	21750

NOTES: SEE SITE PLAN FOR RELOCATABLE AND APPLICATION NUMBERS. MOST RECENT PROJECT AT THIS CAMPUS (DSA A#03-116107) WAS CLOSED WITH CERTIFICATION 02/12/2018.

LEGEND

- ASSUMED LOT LINE
- ACCESSIBLE PATH OF TRAVEL PER STATEMENT OF P.O.T. UPGRADES/G-002
- PROPOSED RELOCATION OF 12'x40' RELOCATABLE TOILET BUILDING USING STOCKPILE NUMBER A# 04-116517 S/N: 13689
- ADJACENT (E) BUILDINGS REGULATED AS ONE BUILDING PER 2016 CBC 503.2.1

KEYNOTES

1. DEMO (E) ACCESSIBLE PARKING AND RELOCATE AS SHOWN, RESTRIPE REMAINING SPACES
2. (E) FIRE HYDRANT
3. (N) HI-LO DRINKING FOUNTAIN WITH (N) CANE DETECTION RAILINGS PER 9/A-111 AND 10/A-111
4. (N) PARKING LOT ENTRY SIGN ON (E) POLE PER 3B/A-111
5. (N) CROSSWALK PER 6/A-111

GENERAL NOTES

1. THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S), INCLUDING THE SERIAL NUMBER FOR EACH UNIT:
   1. IN-PLANT FINAL VERIFIED REPORT
   2. LABORATORY VERIFIED REPORT
   3. WELDING VERIFIED REPORT

   THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S).

   NOTIFY ARCHITECT AND DIVISION OF THE STATE ARCHITECT'S FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

STATEMENT OF P.O.T. UPGRADES

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 PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE. IF GATES OCCUR ALONG PATH OF TRAVEL, THEY MUST COMPLY WITH ACCESSIBLE REQUIREMENTS PER CBC 2013.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12
APPL 03-119782
AC ___ FLS ___ SS ___
DATE 05/06/2019

PMSM
ARCHITECTS

19·6
ARCHITECTS

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

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ARCHITECT STAMP | CONSULTANT STAMP

LICENSED ARCHITECT
ROSA E. ALVARADO
C-29353
REN. 09-30-19
STATE OF CALIFORNIA

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

SITE PLAN / OVERALL BUILDING PLAN

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

G-002

DATE: MAY 6, 2019 SHEET ___ OF ___

WREA

WATER RESOURCE ENGINEERING ASSOCIATES

CONSULTING CIVIL AND ENVIRONMENTAL ENGINEERS IN WATER AND WASTEWATER

COLLECTION, CONSERVATION, DISTRIBUTION AND TREATMENT

2300 ALESSANDRO DR, SUITE 215, VENTURA, CA 93001 (805) 653-7900 1-800-25-WATER FAX: (805) 653-0610

FIREFLOW TEST DATA

PROJECT: Hathaway Elementary
PROJECT NO.: 3279
FIRE DEPT: City of Oxnard
WATER PURV: City of Oxnard
ASSESSORS PARCEL NO.: 222-0-141-025
DEVELOPER: Hueneme Elementary School District
OBSERVERS: Steve Cattanach, Will Trax
FIRM: Water Resource Engineering Associates (WREA)

Test No.	Location	Time: Date	Time: Time	c	d (in)	Pressure (PSI): P_s	p	P_R	Flow Rates (GPM): Q_o	M	Q 20
1	465 E. Dollie St Oxnard	4/3/19	11:30 AM	0.90	2.50	75.00	48.00	63.00	1162.51	2.28	2651

c = Nozzle Coefficient of Discharge
d = Diameter of Outlet in Inches
P_s = Static Pressure
P_R = Residual Pressure
p = Pitot Gage Pressure in PSI
Q_o = Observed Flow
Q_{20} = Extrapolated Flow at 20 PSI
M = Multiplier for Extrapolated Flow

Formula for Multiplier:

$$M = \frac{(P_s - 20)^{0.54}}{(P_s - P_R)^{0.54}}$$

Formula for Extrapolated Flow at 20 PSI Residual:

$$Q_{20} = Q_o \times M$$

Formula for Observed

$$Q_o = 29.83cd^2\sqrt{p}$$

Note: This fire flow test data is provided for information only. Use of the results is solely at the user's risk. The Engineer makes no guarantee that the results of this test can be repeated, except to state that at the time and date indicated, the test yielded the results indicated. Projected Q20 flows are calculated in accordance with AWWA Manual M17 and reflect extrapolated hydraulic conditions of system.

REGISTERED PROFESSIONAL ENGINEER BENJAMIN T. FRIEDRICH NO 69360 CIVIL STATE OF CALIFORNIA

4/15/2019
Testing & Calculations Checked and Certified Date

LEGEND

ASSUMED LOT LINE

(E) FIRE ACCESS LANE

ADJACENT (E) BUILDINGS REGULATED AS ONE BUILDING PER 2016 CBC 503.2.1

BUILDING DATA

BLDG	OCC. TYPE	CONST TYPE	SPRNKLR	BLDG HEIGHT	BLDG AREA	ROOF OH	TOTAL AREA	ALLOW. AREA
P7-P-12	E	VB	NO	(E) 12'-6"±	4,320 SF	- SF	4,320 SF	9,500 SF

BUILDING INFO

BUILDING/ RELOCATABLE NAME	USE	DSA 'A' NO.	ORIGINAL DSA NO.
100	(E) CLASSROOMS	-	21750
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400	(E) CLASSROOMS	-	21750
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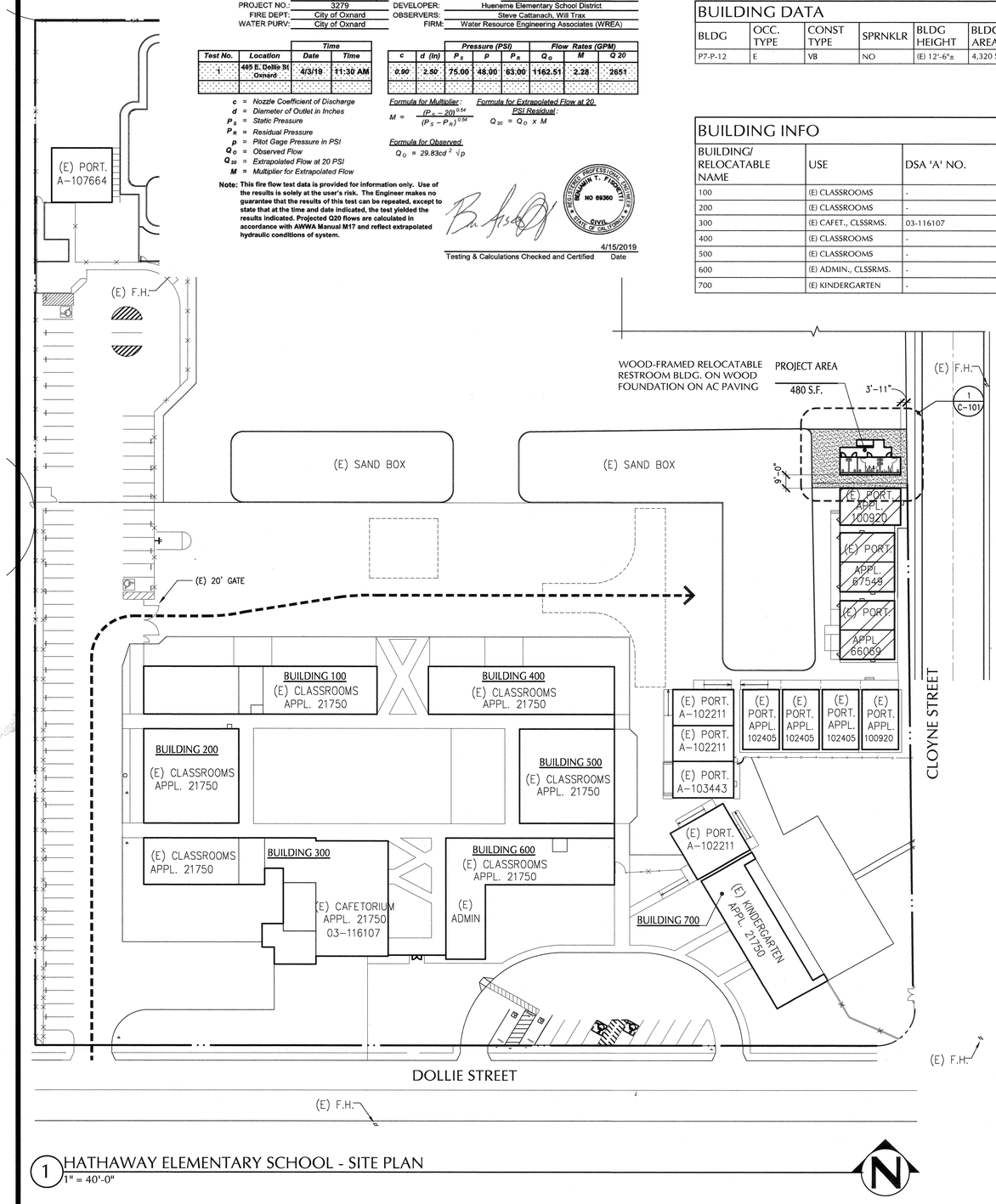
600	(E) ADMIN., CLSSRMS.	-	21750
700	(E) KINDERGARTEN	-	21750



1 HATHAWAY ELEMENTARY SCHOOL - SITE PLAN
1" = 40'-0"

N

PLOT DATE: May 06, 2019 - 11:08AM DRAWING NAME: H:\2018\18101\HESD HATHAWAY ES RELOCATABLE RR BLDG ADD\TX\DRAWINGS\PLOT FILES\G-002F.DWG PLOT BY: MHARTMANN

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and 2* are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: Hueneme Elementary School District
Project Name/School: Hathaway Elementary School
Project Address: 405 East Dollie St, Oxnard, CA 93033

FIRE & LIFE SAFETY INFOMATION

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

CONDITION MEANS AND METHODS RESOLUTION

		ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.		☒		
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	☐	☐	☐	☐
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.		☒		
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	☐	☐	☐	☐
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.		☒		
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	☐	☐	☐	☐
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.		☐	☒	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	☐	☐	☐	☐

DSA 810 (rev 10-22-18) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: Oxnard Fire
LFA Review Official: Chief Sergio Martinez
Title: Fire Marshal — Work Phone: 805-385-7720
Work E-mail: sergio.martinez@oxnard.org

LFA Reviewer's Signature: _____ Date: 1-29-2018

M.H.: Check boxes changed from "No" to "Yes" per telephone conversation with Chief Martinez (Oxnard Fire), Martin Hartmann (PMSM/19six Architects), and Shihfan Huang (DSA). 05/06/2019

DSA 810 (rev 10-22-18) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 STATE OF CALIFORNIA

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS ✓
DATE 05/06/2019

PMSM ARCHITECTS
196 ARCHITECTS
802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

CIVIL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ELECTRICAL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ARCHITECT STAMP: LICENSED ARCHITECT JOSE E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

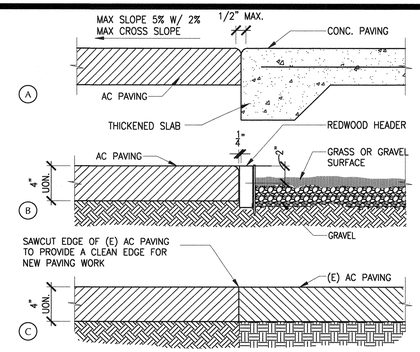
PROJECT OWNER & TITLE
HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION
405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE
SITE PLAN
FIRE DEPT. APPROVAL

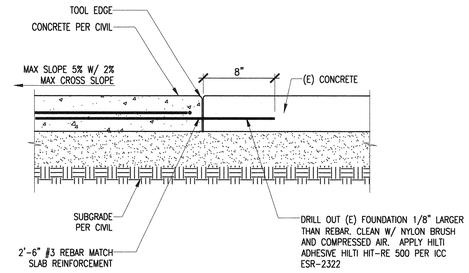
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.
G-002F
DATE: MAY 6, 2019 SHEET ____ OF ____



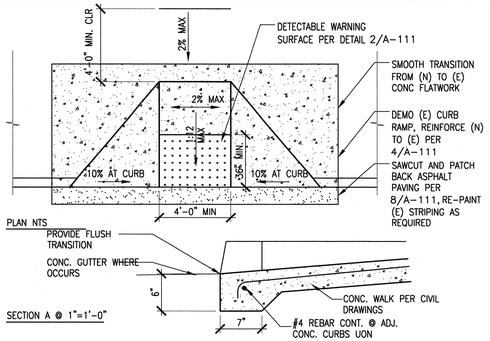
EDGE OF AC PAVING

SCALE: 1 1/2" = 1'-0" — 8



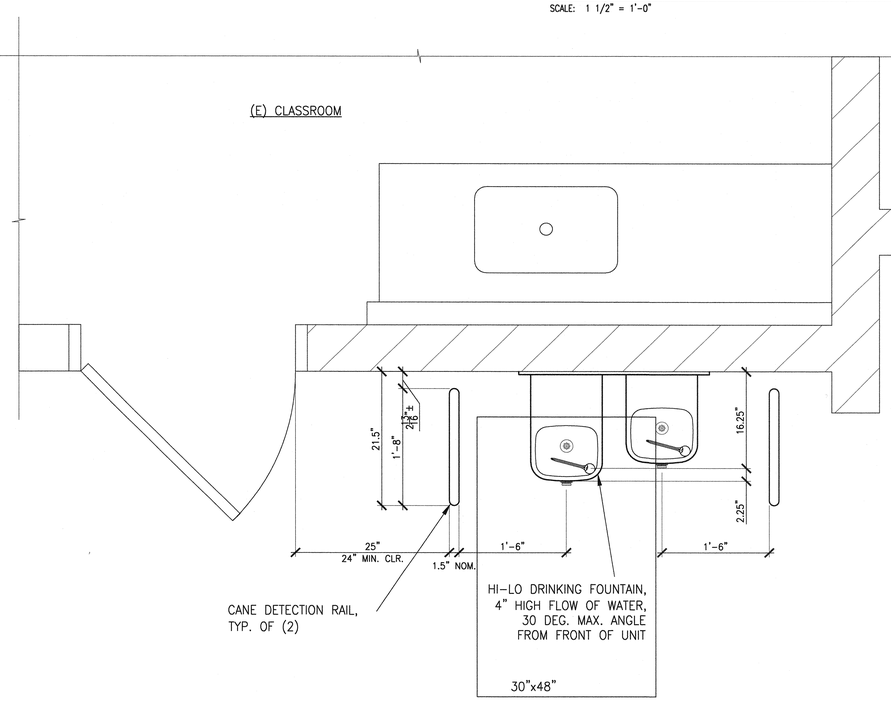
(E) TO (N) CONC. CONNECTION

SCALE: 1 1/2" = 1'-0" — 4



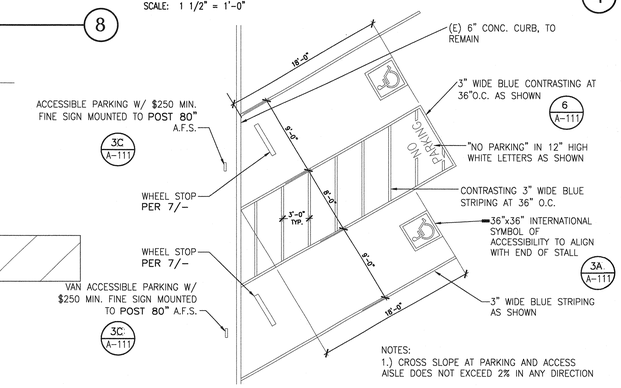
ACCESSIBLE CURB RAMP

SCALE: 1/4" = 1'-0" — 1



ENLARGED DRINKING FOUNTAIN PROPOSED PLAN

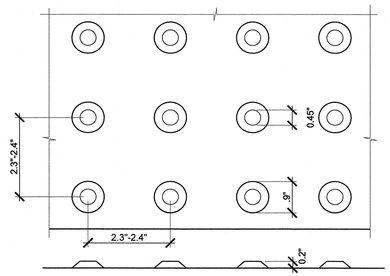
9



ACCESSIBLE PARKING

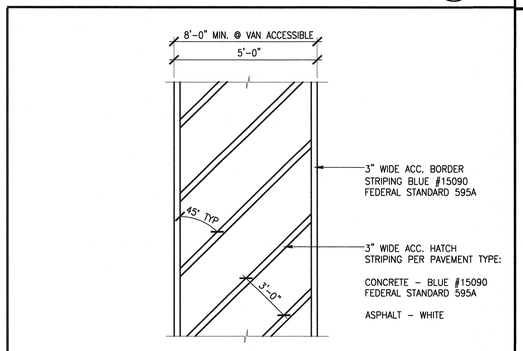
SCALE: 1/8" = 1'-0" — 5

NOTE:
1. 70% CONTRAST LIGHT TO DARK REQUIRED @ FLUSH TRANSITIONS
2. TRUNCATED DOMES TO BE INSTALLED AS A CONTINUOUS MAT
3. YELLOW COLOR FEDERAL STANDARD 33538



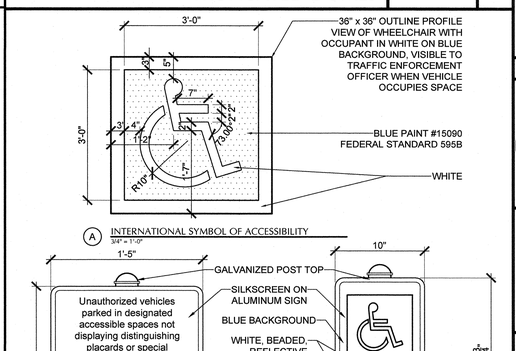
TRUNCATED DOMES

SCALE: 6" = 1'-0" — 2



ACCESSIBLE AISLE

SCALE: 1/4" = 1'-0" — 6



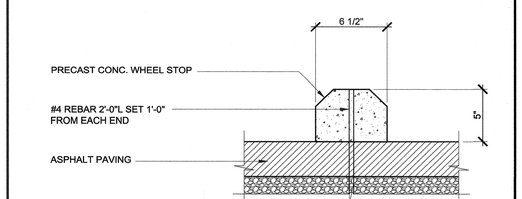
CONTRACTOR SHALL VERIFY TOWING INFORMATION FROM THE CITY PRIOR TO FABRICATION OF SIGN

*60" IF IN PLANTER OUT OF PATH OF TRAVEL
*60" IF ATTACHED TO WALL

PROVIDE "VAN ACCESSIBLE" SIGN AT VAN STALL ONLY

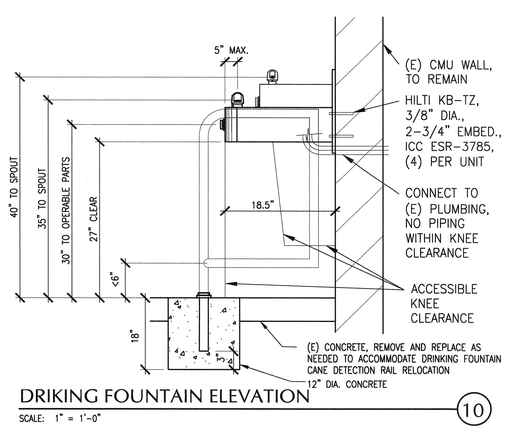
PARKING LOT SIGNAGE

SCALE: 1 1/2" = 1'-0" — 3



PRE-CAST CONC. WHEEL STOP

SCALE: 1 1/2" = 1'-0" — 7



DRIKING FOUNTAIN ELEVATION

SCALE: 1" = 1'-0" — 10

N

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12

APPL 03-119782

AC FLS SS

DATE 05/06/2019

PMSM ARCHITECTS

196 ARCHITECTS

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ARCHITECT STAMP

LICENSED ARCHITECT ROSA E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

SITE DETAILS

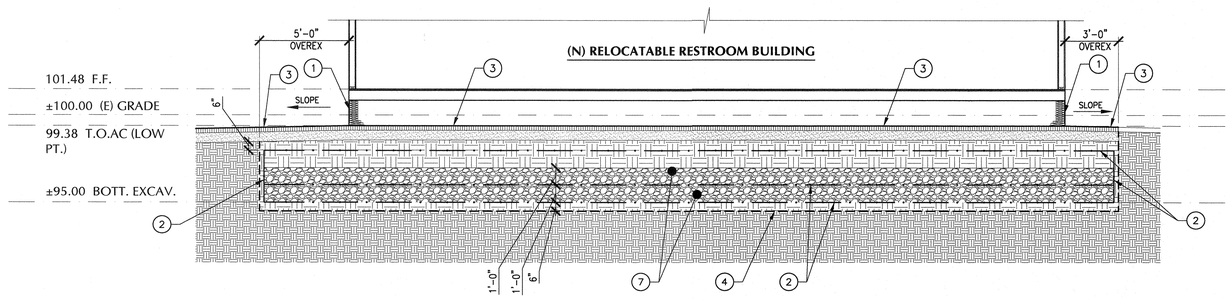
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

A-111

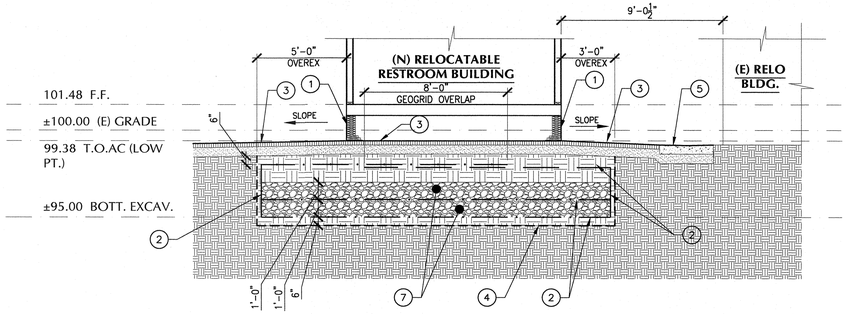
DATE: MAY 6, 2019 SHEET ____ OF ____

PLOT BY: MHARTMAN PLOT DATE: MAY 06, 2019 - 10:54AM DRAWING NAME: H:\2018\18100 HESD HATHAWAY ES\ RELOCATABLE RR BLDG ADDITION\DRAWINGS\PLOT FILES\07193_GF A-111.DWG



SITE-SPECIFIC SECTION
1/4" = 1'-0"

A



SITE-SPECIFIC SECTION
1/4" = 1'-0"

B

○ NUMBERED NOTES

1. WOOD FOUNDATION PER BUILDING MFR. PC A# 04-114135
2. GEOGRID PER GEOTECHNICAL REPORT, TENSAR TRI-AXIAL TX160
3. AC PAVING OVER BASE PER CIVIL DRAWINGS
4. BOTTOM OF 6" SCARIFICATION PER GEOTECHNICAL REPORT
5. CONCRETE GUTTER PER CIVIL DRAWINGS
6. NOT IN USE
7. CLEAN 1" AGGREGATE BASE MATERIAL PER GEOTECHNICAL REPORT (REPORT NO.:19-3-43)
8. NOT IN USE

GENERAL NOTES

1. SEE CIVIL DRAWINGS AND BUILDING MANUFACTURER DRAWINGS FOR ADDITIONAL INFORMATION.
2. THE BOTTOM OF THE REMEDIAL EXCAVATION SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES; UNIFORMLY MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED TO ACHIEVE A RELATIVE COMPACTION OF BETWEEN 90 PERCENT OF THE ASTM D 1557 MAXIMUM DRY DENSITY. SEE RECOMMENDATIONS TO MITIGATE POTENTIAL EFFECTS OF LIQUEFACTION AND RELATED ISSUES ENGINEERING GEOLOGY AND GEOTECHNICAL REPORT BY EARTH SYSTEMS (PROJECT NO.: 302378-001, REPORT NO.: 19-3-43).

SYMBOL LEGEND

(E) SOIL, TO REMAIN

OVEREXCAVATION & BACKFILL

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12
APPL 03-119782
AC ___ FLS ___ SS BT
DATE 05/06/2019

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ARCHITECT STAMP

LICENSED ARCHITECT ROSA E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

SITE-SPECIFIC SECTIONS & NOTES

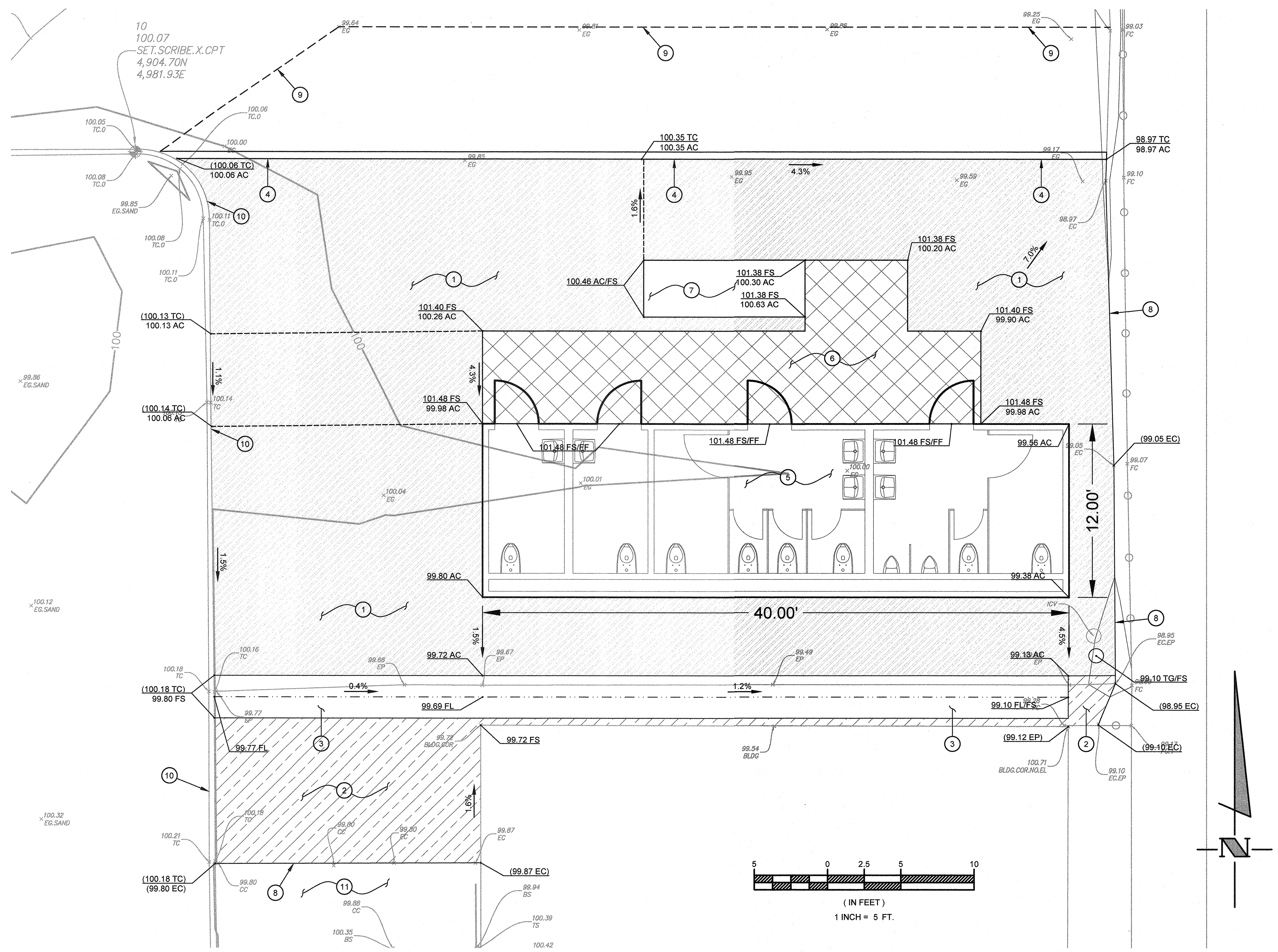
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

A-112

DATE: MAY 6, 2019 SHEET ____ OF ____

PLOT BY: MHARTMANN PLOT DATE: May 06, 2019 - 10:53am DRAWING NAME: H:\2018\18101 HESD HATHAWAY ES RELOCATABLE RR Bldg Addition\Drawings\Plot Files\A-112.dwg



OVEREXCAVATION AND SCARIFICATION

AREAS TO RECEIVE PAVING:
- AREAS TO RECEIVE PAVING SHOULD BE OVEREXCAVATED TO A DEPTH OF 2.5 FEET BELOW FINISHED SUBGRADE ELEVATION.
- THIS SURFACE SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, MOISTURE CONDITIONED AND RECOMPACTED PRIOR TO REPLACING EXCAVATED MATERIALS AS FILL.
- EXCEPT FOR THE UPPER ONE FOOT, SOILS SHOULD BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DENSITY
- SOILS IN THE UPPER ONE FOOT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY

AREA BENEATH THE RELOCATABLE BUILDING
- AREA BENEATH THE RELOCATABLE BUILDING SHOULD BE OVEREXCAVATED TO A MINIMUM 5-FEET BELOW THE EXISTING GRADE
- THE LIMITS OF THE OVEREXCAVATION SHOULD BE EXTENDED LATERALLY TO A DISTANCE OF AT LEAST 5-FEET BEYOND THE OUTSIDE EDGE OF THE FOUNDATION ELEMENT WHEREVER NO EXISTING STRUCTURES ARE LOCATED WITHIN 10-FEET OF THE OUTSIDE EDGE OF THE OVEREXCAVATION ZONE
- WHERE ADJACENT STRUCTURES ARE WITHIN 10-FEET, THE OVEREXCAVATION WIDTH COULD BE REDUCED TO 3-FEET OUTSIDE THE BUILDING PERIMETER IN THAT DIRECTION ONLY
- BOTTOM OF THE REMEDIAL EXCAVATION SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES, UNIFORMLY MOISTURE CONDITIONED TO ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO ACHIEVE A RELATIVE COMPACTION OF AT LEAST 90% OF THE ASTM D 1557 MAXIMUM DRY DENSITY
- FOLLOW DIRECTION GIVEN IN THE GEOTECHNICAL REMEDIAL RECOMMENDATIONS DOCUMENT FOR FURTHER GEOGRID REINFORCED MAT CONSTRUCTION

GRADING GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL SIDEWALKS & FLATWORK FORMS HAVE A CROSS-SLOPE OF 2% OR LESS IN THE PATH OF TRAVEL, OR IN PLAZA AREAS, PRIOR TO POURING CONCRETE. CONTACT ENGINEER IF ANY CROSS-SLOPES ARE OVER 2%.

2. CONTRACTOR TO VERIFY ALL DRAINAGE RUNS TO A DRAIN INLET OR LANDSCAPE AREA BASIN. CONTACT ENGINEER IF ANY LOW POINTS OCCUR IN HARDSCAPE AREAS WITHOUT A DRAIN INLET SHOWN FOR INSTALLATION.

3. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5%) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. WHERE CLIMATIC OR SOIL CONDITIONS WARRANT, THE SLOPE OF THE GROUND AWAY FROM THE BUILDING FOUNDATION SHALL BE PERMITTED TO BE REDUCED TO NOT LESS THEN 2%. (CBC 2013, SECTION 1804A.3)

SPECIFIC CONSTRUCTION NOTES:

HATCH	#	SPECIFIC CONSTRUCTION NOTES	DETAIL/SHEET
[hatch]	1	CONSTRUCT ASPHALT PAVEMENT (AC) LIGHT TRAFFIC PER DETAIL.	A/C-1.02
[hatch]	2	CONSTRUCT CONCRETE FLATWORK (PEDESTRIAN) PER DETAIL. SEE ARCHITECTURAL PLAN FOR SCORING AND COLOR OF CONCRETE.	B/C-1.02
	3	CONSTRUCT CONCRETE VALLEY GUTTER PER DETAIL.	C/C-1.02
	4	CONSTRUCT CONCRETE FLUSH CURB PER DETAIL.	D/C-1.02
	5	PORTABLE RESTROOM PER PORTABLE RESTROOM PLANS.	
[hatch]	6	RAISED DECK PER PORTABLE RESTROOM PLANS.	
	7	PRE-MANUFACTURED RAMP PER PORTABLE RESTROOM PLANS.	
	8	MATCH EXISTING. CONTRACTOR TO VERIFY MATCH LOCATION AND ELEVATION PRIOR TO CONSTRUCTION TO ENSURE THEY ARE CONSISTENT WITH PLAN. CONTACT ENGINEER OF RECORD IF DISCREPANCIES ARISE.	
	9	LIMITS OF RE-GRADE IN LANDSCAPE AREA.	
	10	PROTECT-IN-PLACE EXISTING CONCRETE CURB.	
	11	PROTECT-IN-PLACE EXISTING CONCRETE FLATWORK.	

SOILS ENGINEER INFORMATION:

THE SOILS ENGINEER FOR THIS PROJECT IS:
EARTH SYSTEMS PACIFIC
1731 WALTER STREET, SUITE A
VENTURA, CA 93003
805.642.6727

THE SOILS REPORT FOR THIS PROJECT IS DATED SEPTEMBER 17, 2018, PROJECT NO. 302378-01.
THE REMEDIAL GRADING RECOMMENDATION REPORT FOR THIS PROJECT IS DATED MARCH 11, 2019, PROJECT NO. 302378-01.

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 27
DATE 05/06/2019

PMSM ARCHITECTS

19·6 ARCHITECTS

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

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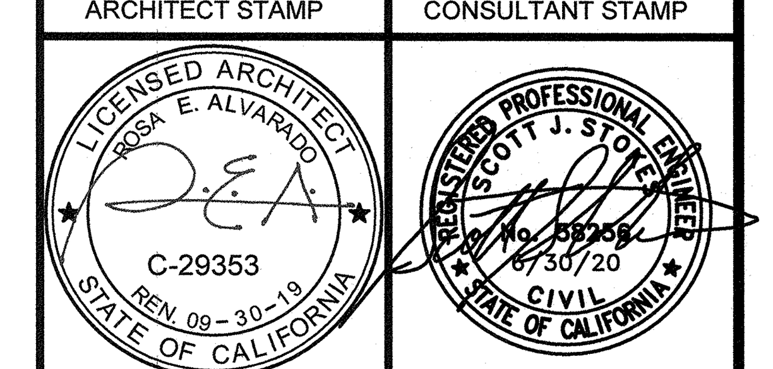
ARCHITECT STAMP | CONSULTANT STAMP



REVISIONS

PROJECT OWNER & TITLE
HUENEME ELEMENTARY SCHOOL DISTRICT
HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION
405 EAST DOLLIE STREET
OXNARD, CA 93033

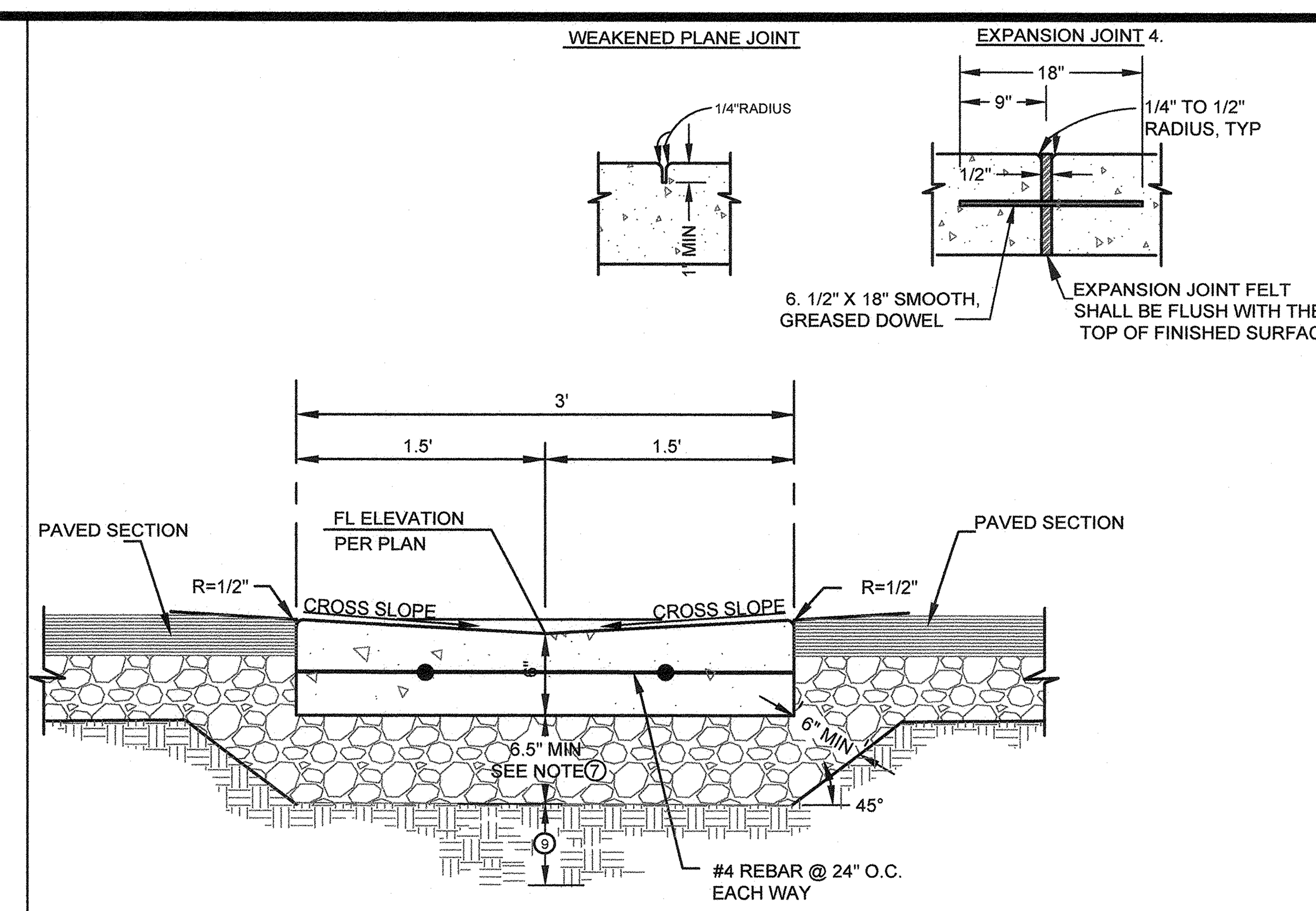
SHEET TITLE
GRADING & DRAINAGE PLAN

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.
C-1.01

DATE: APRIL 15, 2019 SHEET _____OF_____

PLOT BY: AGE03 PLOT DATE: Apr 15, 2019 - 9:16am Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Civil\18102-C101-GD.dwg

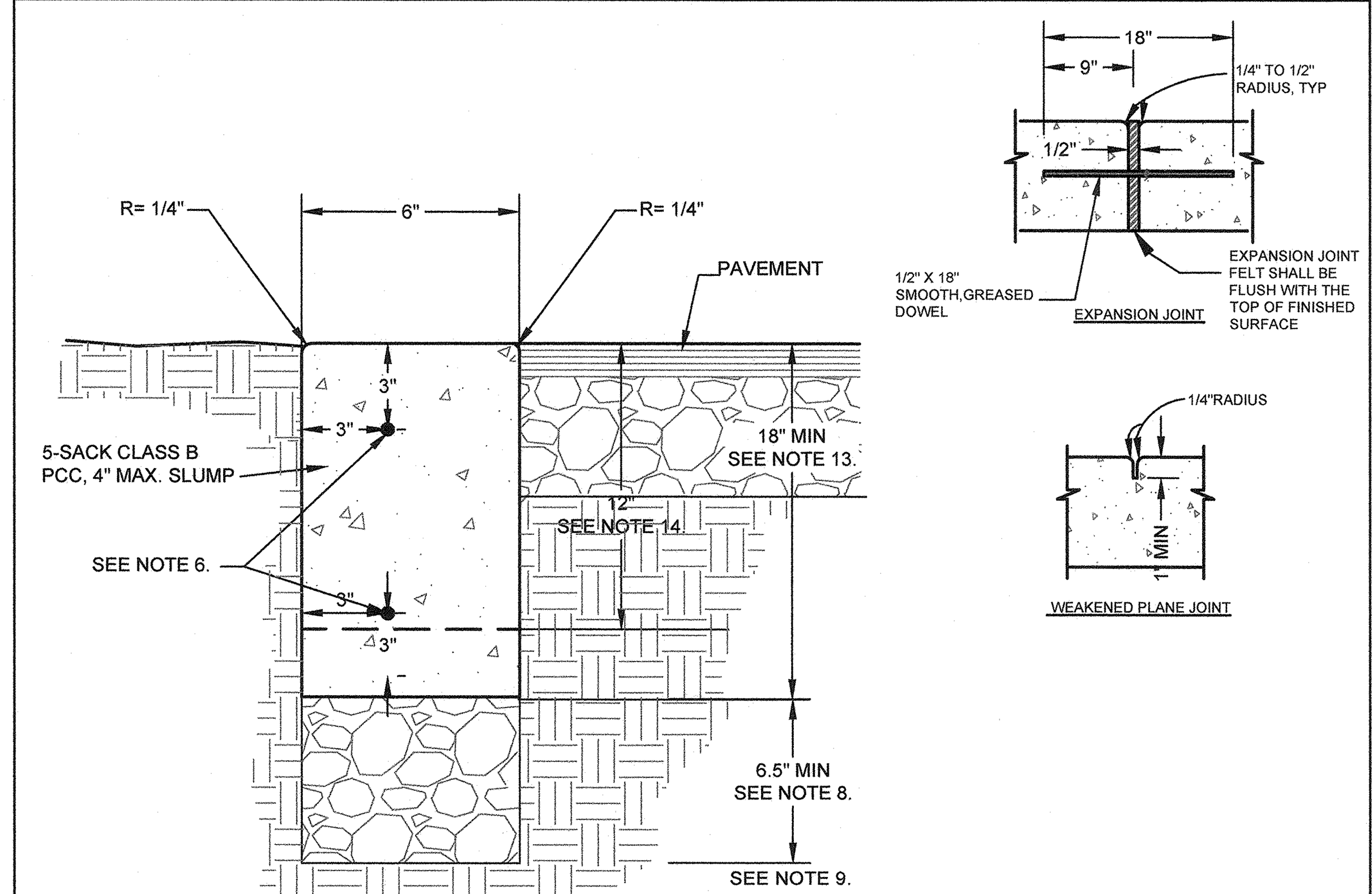


1. CONCRETE: 5 SACK P.C.C. CONCRETE, 2" MIN 4" MAX SLUMP.
2. FINISH: P.C.C. SHALL BE GIVEN A MEDIUM BROOM FINISH.
3. SEALING & CURING: A PIGMENTED SEALING AND CURING COMPOUND SHALL BE USED IN ACCORDANCE WITH THE PROVISIONS OF THE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS.
4. EXPANSION JOINTS (EJ): SHALL BE PLACED AT CURB RETURNS, DRIVEWAYS, STORM DRAIN CATCH BASINS, AROUND UTILITY POLES, AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT TO EXCEED 30-FEET. THE INTERVALS BETWEEN EXPANSION JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE
5. WEAKENED PLANE JOINTS (WPJ): SHALL BE A MINIMUM 1-INCH IN DEPTH AND PLACED AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT EXCEEDING 10-FEET BETWEEN EXPANSION JOINTS. THE INTERVALS BETWEEN WEAKENED PLANE JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE.
6. 1/2"Ø x 18" SMOOTH, GREASED DOWELS SHALL BE PLACED AT ALL EXPANSION JOINTS, TWO IN THE NEW GUTTER.
7. 6.5" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION OR MATCH BASE THICKNESS REQUIREMENT FOR NEW OR EXISTING ROAD SECTION, WHICHEVER IS GREATEST.
8. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 36" MINIMUM AND RECOMPACTED TO 95% RELATIVE COMPACTION.
9. SUBGRADE AND AGGREGATE BASE COMPACTION REQUIREMENTS SHALL EXTEND TO THE BACK OF CURB OR TO THE BACK OF ATTACHED SIDEWALK (WHICHEVER CONDITION IS APPLICABLE).
10. GUTTER CROSS SLOPE SHALL NOT EXCEED 5% ACROSS CURB RAMPS AND 2% ACROSS ADA PARKING SPACES AND ADA PATH OF TRAVEL. OTHERWISE, TYPICAL GUTTER CROSS SLOPE SHALL BE 8% UNLESS OTHERWISE NOTED.
11. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN THE CURB & GUTTER.

CONCRETE VALLEY GUTTER

SCALE = NONE

(C)



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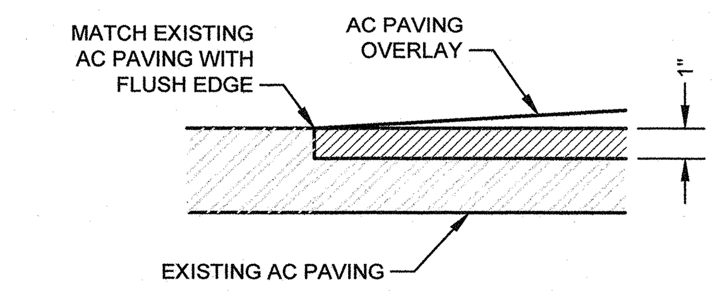
5. WEAKENED PLANE JOINTS (WPJ): SHALL BE A MINIMUM 1-INCH IN DEPTH AND PLACED AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT EXCEEDING 10-FEET BETWEEN EXPANSION JOINTS. THE INTERVALS BETWEEN WEAKENED PLANE JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE.
6. 1/2"Ø x 18" SMOOTH, GREASED DOWELS SHALL BE PLACED AT ALL EXPANSION JOINTS, TWO IN THE NEW CURB FACE, AND AT 18-INCHES ON CENTER IN NEW SIDEWALK.
7. WHEN PLACED IN SIDEWALKS, BOTH EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL EXTEND THROUGH THE ADJACENT CURB.
8. 6.5" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION OR MATCH BASE THICKNESS REQUIREMENT FOR NEW OR EXISTING ROAD SECTION, WHICHEVER IS GREATEST.
9. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 36" MINIMUM AND RECOMPACT TO 95% RELATIVE COMPACTION.
10. SUBGRADE AND AGGREGATE BASE COMPACTION REQUIREMENTS SHALL EXTEND TO THE BACK OF CURB OR TO THE BACK OF ATTACHED SIDEWALK (WHICHEVER CONDITION IS APPLICABLE).
11. GUTTER CROSS SLOPE SHALL NOT EXCEED 5% ACROSS CURB RAMPS, 2% ACROSS ADA PATH OF TRAVEL AND ADA PARKING, OTHERWISE TYPICAL GUTTER CROSS SLOPE SHALL BE 8% UNLESS OTHERWISE NOTED.
12. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN THE CURB & GUTTER.
13. WHEN CURB IS PLACED ADJACENT TO EXISTING OR FUTURE IRRIGATED LANDSCAPE AREA, PCC SHALL EXTEND DOWN AS SHOWN FOR MOISTURE BARRIER.
14. WHEN CURB IS NOT LOCATED AS IN NOTE 13. DEPTH MAY BE REDUCED.

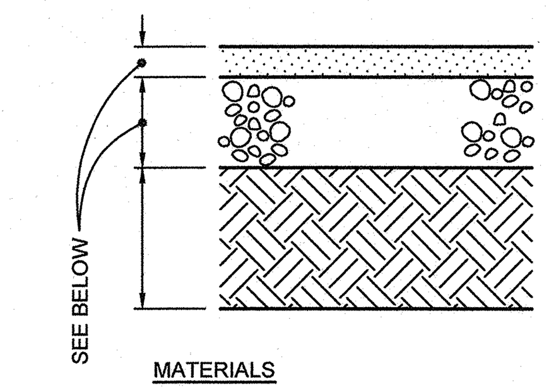
CONCRETE FLUSH CURB

SCALE = NONE

(D)



PAVEMENT GRINDING DETAIL



AC PAVING *** (SEE BELOW)

CLASS II AGGREGATE BASE (SEE BELOW)

SUBGRADE TO BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED PER SOILS ENGINEERING REPORT FOR THIS PROJECT.

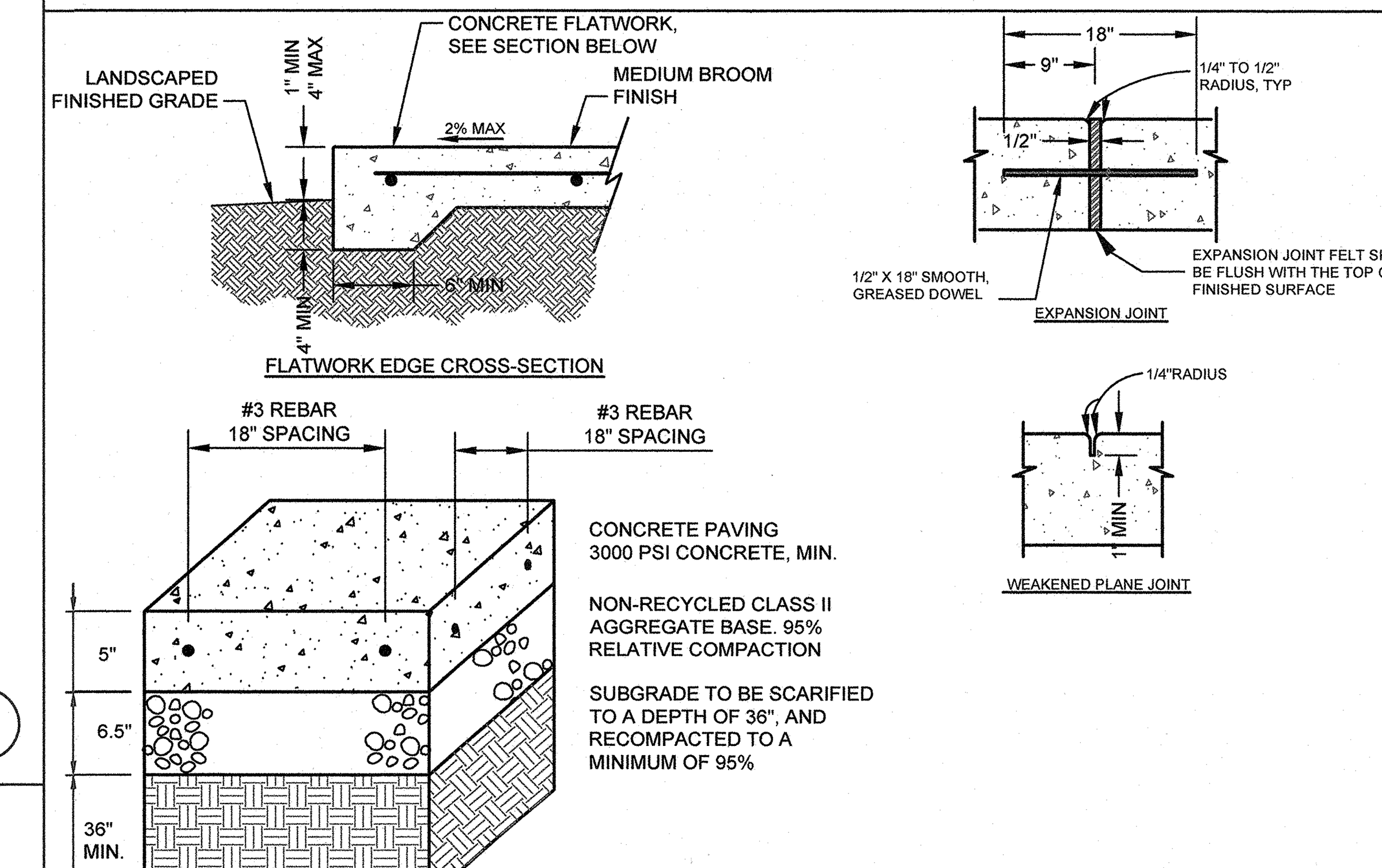
MATERIALS	SECTION THICKNESS	CALTRANS SPECIFICATIONS
ASPHALT CONCRETE SURFACE COURSE	3" **	SECTION 39 *
CRUSHED AGGREGATE BASE COURSE	6.5"	SECTION 26, CLASS 2 *

NOTES:
* COMPACTION TO A MINIMUM DENSITY OF 95 PERCENT
** PAVEMENT SECTION IS TO BE BASED ON A T.I. OF 4.5. ACTUAL SECTION SHALL BE DETERMINED BY R-VALUES TAKEN DURING CONSTRUCTION.
*** CROSS SLOPES NOT TO EXCEED 2% ON ALL WALKWAYS, AND NOT TO EXCEED 2% IN ANY DIRECTION IN PLAZA AREAS.

AC PAVING SECTION

SCALE = NONE

(A)



1. CONCRETE: 5 SACK P.C.C. CONCRETE, 2" MIN 4" MAX SLUMP.
2. FINISH: P.C.C. SHALL BE GIVEN A MEDIUM BROOM FINISH.
3. SEALING & CURING: A PIGMENTED SEALING AND CURING COMPOUND SHALL BE USED IN ACCORDANCE WITH THE PROVISIONS OF THE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS.
4. EXPANSION JOINTS (EJ): SHALL BE PLACED AT CURB RETURNS, DRIVEWAYS, STORM DRAIN CATCH BASINS, AROUND UTILITY POLES, AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT TO EXCEED 30-FEET. THE INTERVALS BETWEEN EXPANSION JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE
5. WEAKENED PLANE JOINTS (WPJ): SHALL BE A MINIMUM 1-INCH IN DEPTH AND PLACED AT LONGITUDINAL CURB GUTTER AND SIDEWALK INTERVALS NOT EXCEEDING 10-FEET BETWEEN EXPANSION JOINTS. THE INTERVALS BETWEEN WEAKENED PLANE JOINTS SHALL VARY TO ALLOW MATCHING OF JOINTS IN ADJACENT EXISTING IMPROVEMENTS AS APPLICABLE.
6. 1/2"Ø x 18" SMOOTH, GREASED DOWELS SHALL BE PLACED AT ALL EXPANSION JOINTS, AND AT 18-INCHES ON CENTER IN NEW SIDEWALK.
7. WHEN PLACED IN SIDEWALKS, BOTH EXPANSION JOINTS AND WEAKENED PLANE JOINTS SHALL EXTEND THROUGH THE ADJACENT CURB AND GUTTER.
8. 6.5" MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION OR MATCH BASE THICKNESS REQUIREMENT FOR NEW OR EXISTING SIDEWALK, WHICHEVER IS GREATEST.
9. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 36" MINIMUM AND RECOMPACTED TO 95% RELATIVE COMPACTION.
10. THE CROSS SLOPE OF THE SIDEWALK SHALL NOT EXCEED 2% (1/4-INCH PER 12-INCHES), 1.5% (3/16-INCH PER 12-INCHES) IS RECOMMENDED. LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
11. THE SIDEWALK SHALL BE WIDENED WHERE REQUIRED TO ALLOW FOR A MINIMUM 4-FOOT CLEAR PASSAGE AROUND ALL ABOVE GRADE OBSTACLES LOCATED WITHIN THE SIDEWALK.
12. TYPICAL SECTION SHALL BE:
    5-INCH MIN PCC, OVER
    6.5-INCH MIN CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION
    36-INCH MIN SUBGRADE TO 95% RELATIVE COMPACTION
    IF THE R-VALUE OF THE NATIVE MATERIAL IS 55 OR GREATER THEN THE 4-INCH OF AGGREGATE BASE UNDER THE SIDEWALK ONLY MAY BE SUBSTITUTED WITH COMPACTED NATIVE MATERIAL.

CONCRETE FLATWORK PEDESTRIAN

SCALE = NONE

(B)

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 251
DATE 05/06/2019

PMSM ARCHITECTS

19·6 ARCHITECTS

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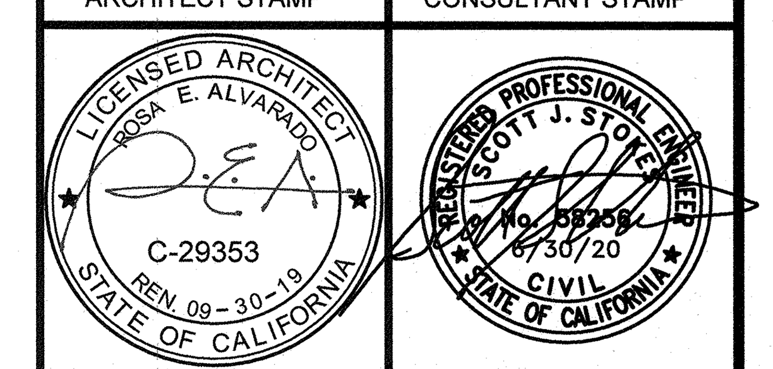
ARCHITECT STAMP	CONSULTANT STAMP



REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

DETAIL SHEET

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

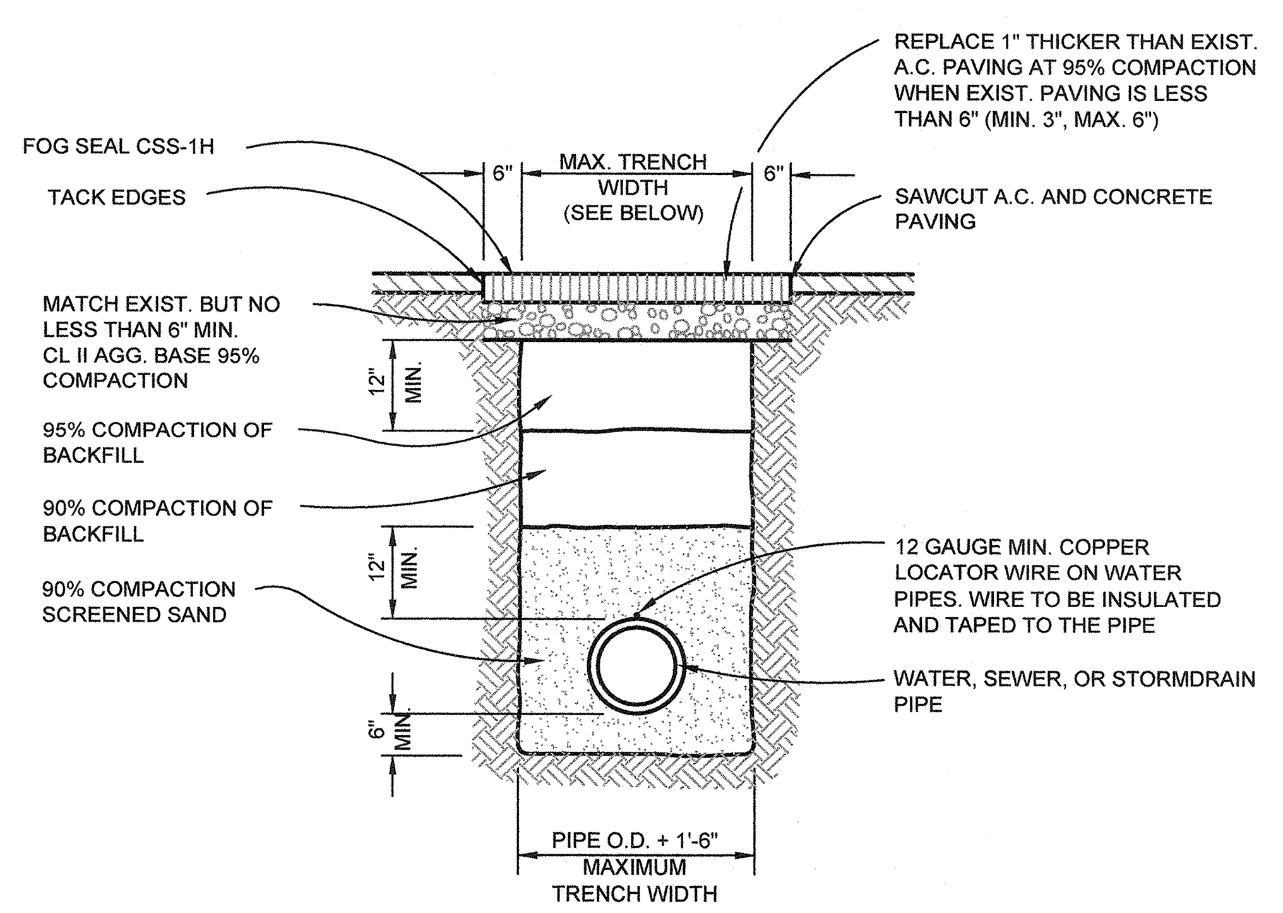
C-1.02

DATE: APRIL 15, 2019 SHEET ____OF____

PLOT BY: AGE03

PLOT DATE: Apr 15, 2019 - 9:17am

Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condoc\Sheetfiles-Civil\18102-C101-GD.dwg



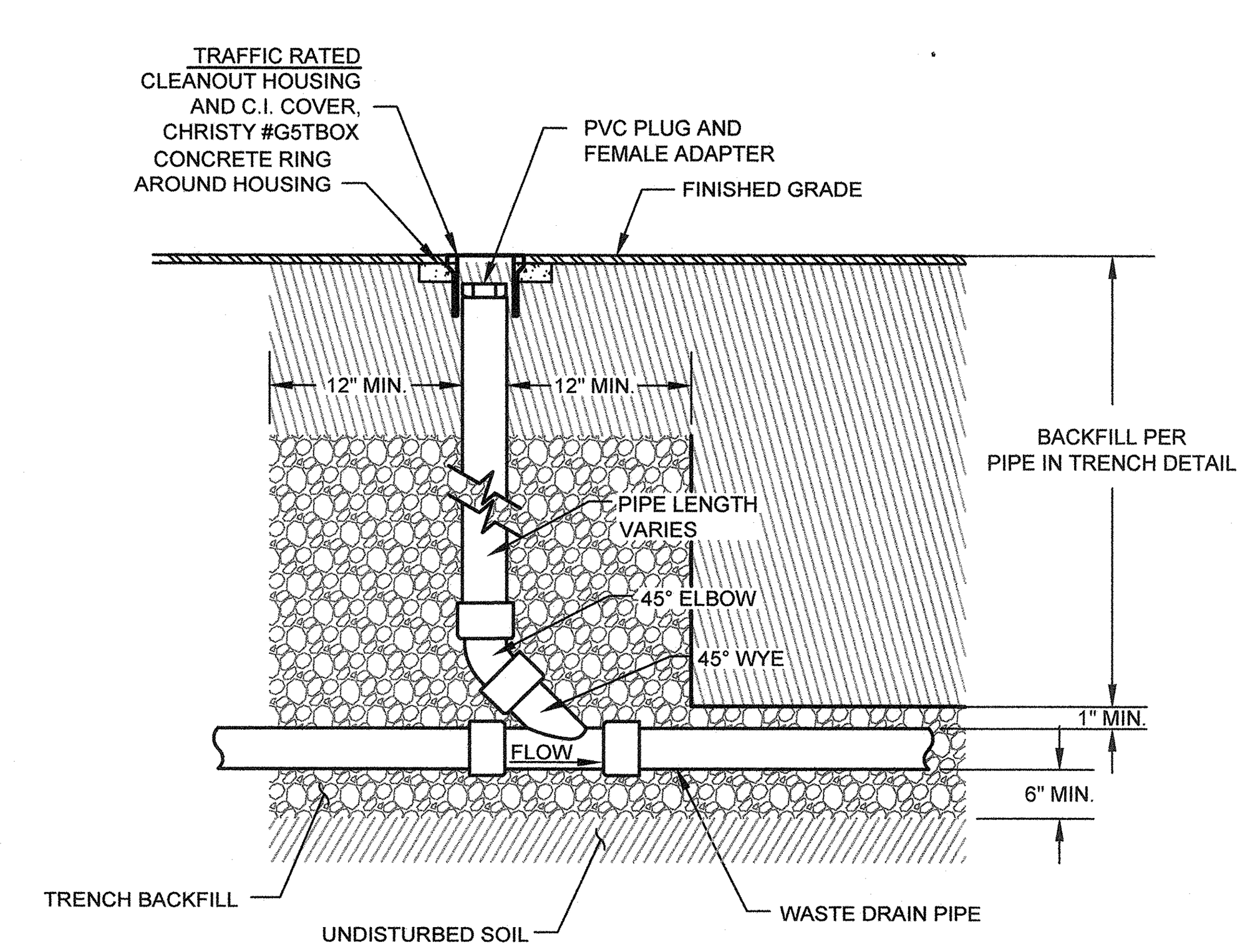
NOTES:

1. No. 12 AWG LOCATOR WIRE REQUIRED ON ALL WATER MAINS AND SERVICES, TAPED TO TOP OF PIPE.
2. NO ROCKS OR OLD PAVEMENT MAY BE DEPOSITED WITH BACKFILL.
3. COLD MIX SHALL BE A MINIMUM THICKNESS OF 2 INCHES (50.8mm).

PIPE TRENCH DETAIL

SCALE = NONE

B



CLEANOUT DETAIL

SCALE = NONE

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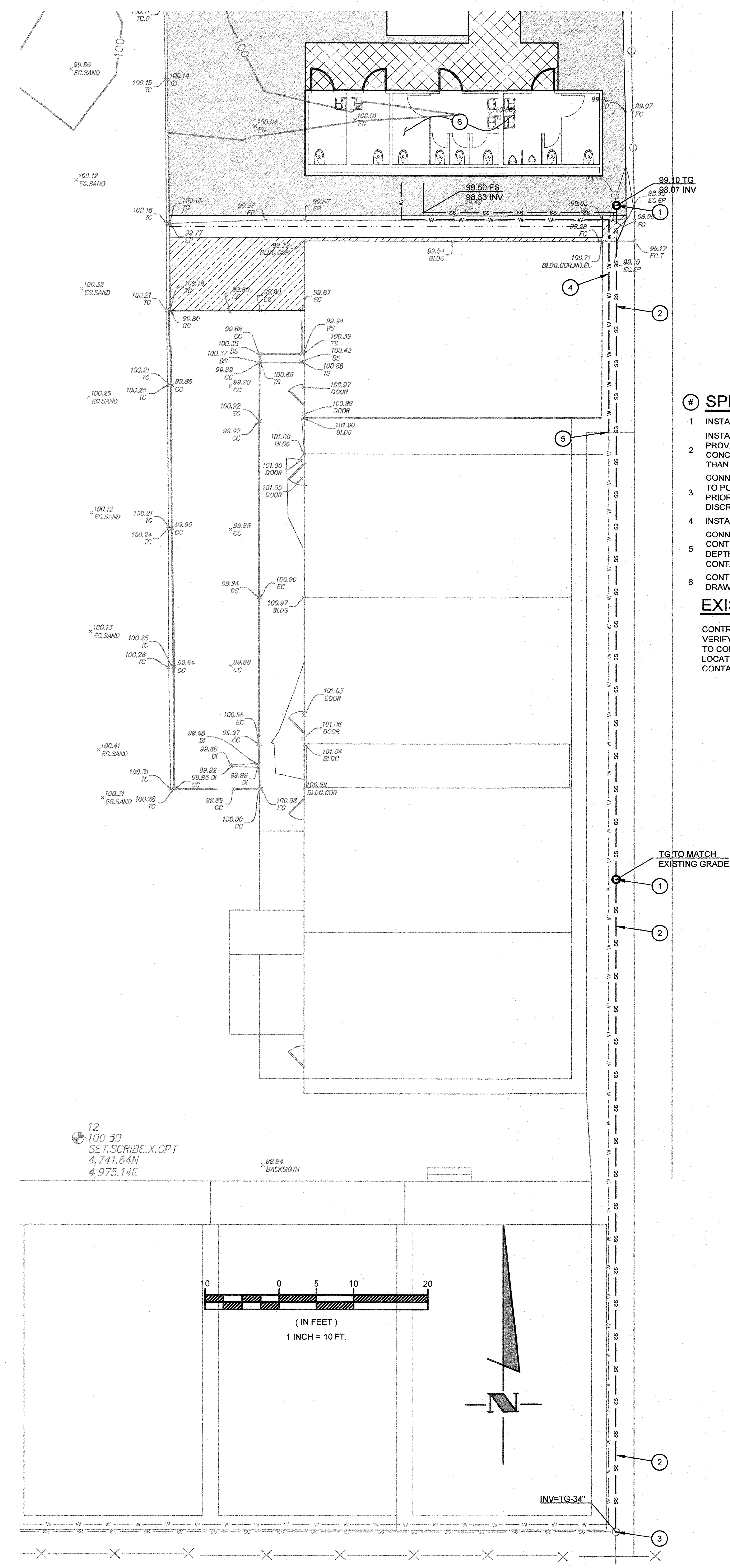

⊕ SPECIFIC CONSTRUCTION NOTES:

#	NOTE	DETAIL
1	INSTALL SEWER CLEAN OUT PER DETAIL.	A
2	INSTALL 4" SDR-35 PVC SEWER LINE PER PIPE IN TRENCH DETAIL. PROVIDE MINIMUM 1.0% PIPE SLOPE. CONTRACTOR TO PROVIDE CONCRETE ENCASEMENT FOR SECTIONS OF SEWER LINE WITH LESS THAN 18" OF COVER WITHIN PAVED AREAS.	B
3	CONNECT TO EXISTING 6" SEWER LINE AT CLEAN OUT. CONTRACTOR TO POTHOLE AND FIELD VERIFY EXISTING PIPE DEPTH AND LOCATION PRIOR TO CONSTRUCTION. CONTACT ENGINEER OF RECORD IF DISCREPANCIES ARISE.	
4	INSTALL 2" WATER LINE PER PIPE IN TRENCH DETAIL.	B
5	CONNECT TO EXISTING WATER LINE AT SOUTHERN PORTABLE. CONTRACTOR TO FIELD VERIFY EXISTING WATER LINE LOCATION, DEPTH AND SIZE PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF DISCREPANCIES ARISE.	
6	CONTRACTOR TO COORDINATE WITH PORTABLE RESTROOM DRAWINGS FOR UTILITY P.O.C. AT THE BUILDING.	

EXISTING UTILITIES

CONTRACTOR TO COORDINATE WITH ONSITE MAINTENANCE PERSONNEL TO VERIFY EXISTING UTILITY LOCATIONS WITH THE LIMITS OF CONSTRUCTION PRIOR TO CONSTRUCTION. CONTRACTOR TO POTHOLE AND FIELD VERIFY DEPTH AND LOCATIONS OF UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF UTILITY LINE CONFLICTS ARISE.

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DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT (USA)

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 2-T
DATE 05/06/2019

PMSM ARCHITECTS

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REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

UTILITY PLAN

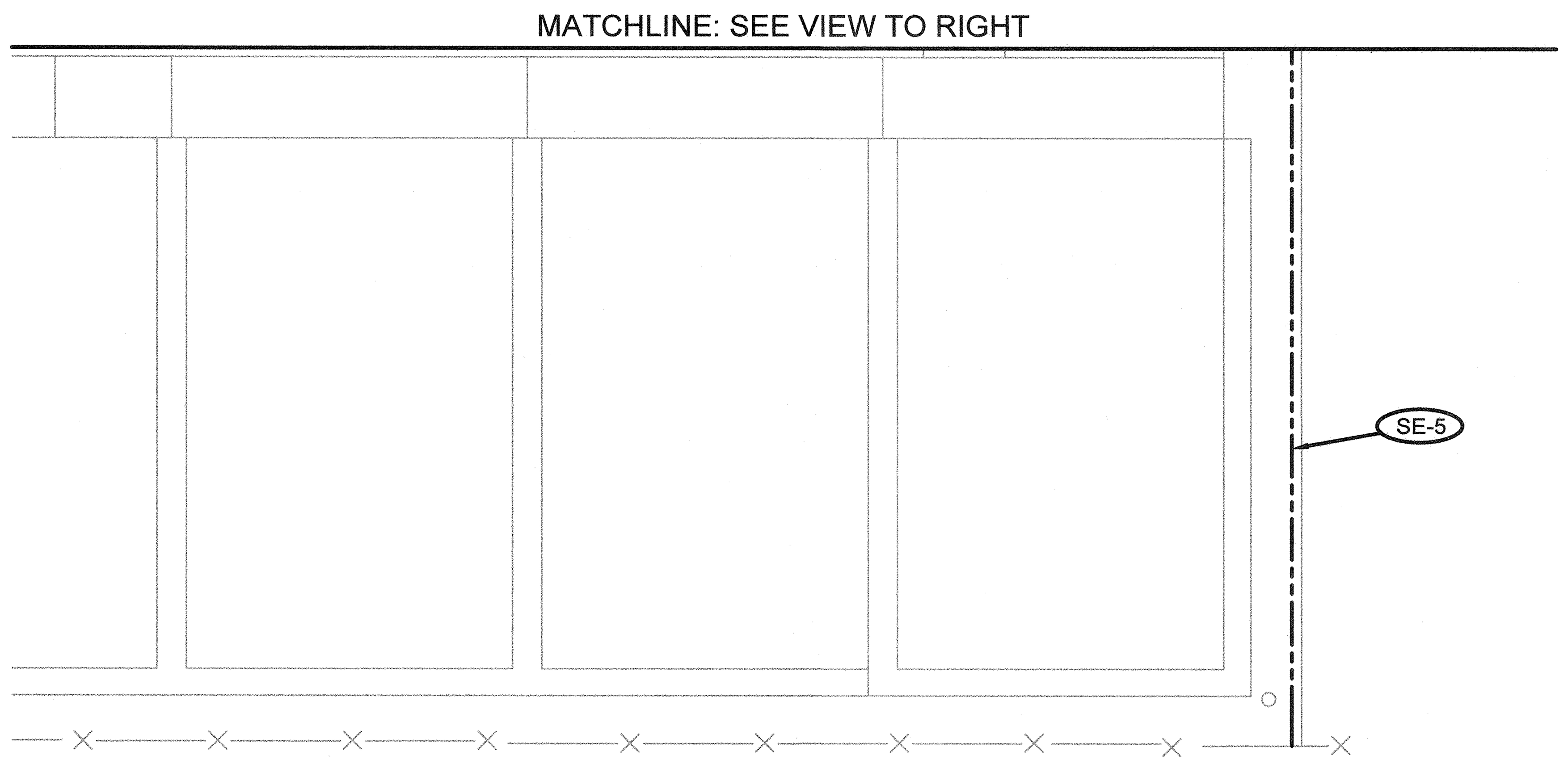
DRAWN BY: MH/VM JOB NUMBER: 18101.01

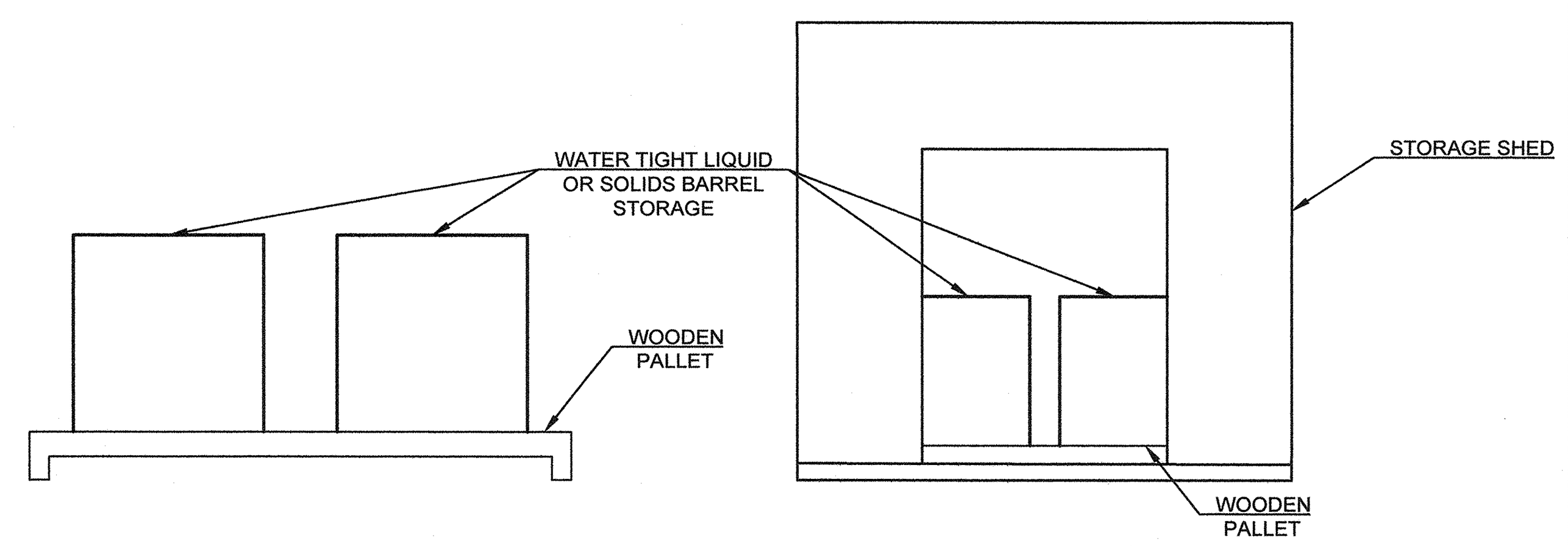
SHEET NO.

C-2.01

DATE: APRIL 15, 2019 SHEET ____ OF ____

PLOT BY: AGE03
PLOT DATE: Apr 15, 2019 - 9:17am
Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Civil\18102-C101-GD.dwg





DESCRIPTION AND PURPOSE

PREVENT, REDUCE, OR ELIMINATE THE DISCHARGE OF POLLUTANTS FROM MATERIAL DELIVERY AND STORAGE TO THE STORMWATER SYSTEM OR WATERCOURSES BY MINIMIZING THE STORAGE OF HAZARDOUS MATERIALS ONSITE, STORING MATERIALS IN WATERTIGHT CONTAINERS AND/OR A COMPLETELY ENCLOSED DESIGNATED AREA, INSTALLING SECONDARY CONTAINMENT, CONDUCTING REGULAR INSPECTIONS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

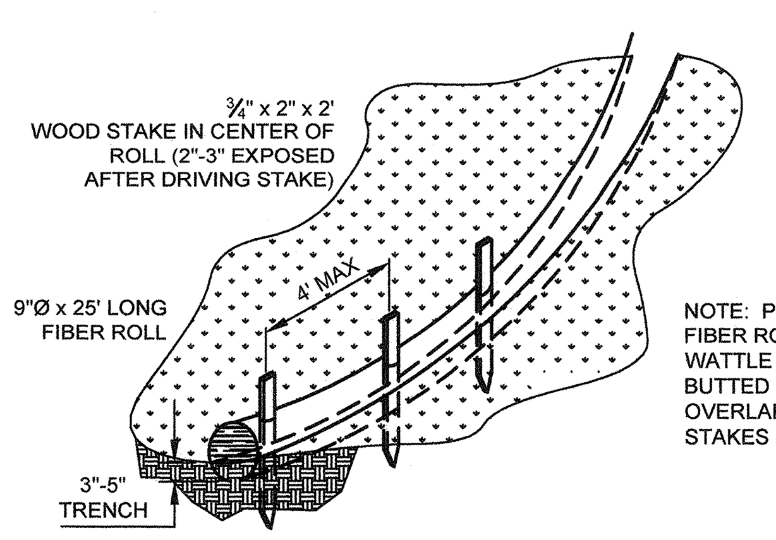
MATERIAL STORAGE AREAS AND PRACTICES

- CHEMICALS MUST BE STORED IN WATER TIGHT CONTAINERS WITH APPROPRIATE SECONDARY CONTAINMENT OR IN A STORAGE SHED.
- WHEN MATERIAL STORAGE AREA IS LOCATED ON BARE SOIL, THE AREA SHOULD BE LINED AND BERMED.
- USE CONTAINMENT PALLETS OR OTHER PRACTICAL AND AVAILABLE SOLUTIONS, SUCH AS STORING MATERIALS WITHIN NEWLY CONSTRUCTED BUILDINGS OR GARAGES, TO MEET MATERIAL STORAGE REQUIREMENTS.
- STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVER WHEN NOT IN USE.
- CONTAIN ALL FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN NOT IN USE.
- EMPLOYEES TRAINED IN EMERGENCY SPILL CLEANUP PROCEDURES MUST BE PRESENT WHEN DANGEROUS MATERIALS OR LIQUIDS ARE UNLOADED.
- A TEMPORARY CONTAINMENT FACILITY SHOULD BE IMPERVIOUS TO THE MATERIALS STORED THEREIN FOR A MINIMUM CONTACT TIME OF 72 HOURS.
- SUFFICIENT SEPARATION SHOULD BE PROVIDED BETWEEN STORED CONTAINERS TO ALLOW FOR SPILL CLEANUP AND EMERGENCY RESPONSE ACCESS.
- MATERIALS SHOULD BE COVERED PRIOR TO, AND DURING RAIN EVENTS.
- PROPER STORAGE INSTRUCTIONS SHOULD BE POSTED AT ALL TIMES IN AN OPEN AND CONSPICUOUS LOCATION.
- AN AMPLE SUPPLY OF APPROPRIATE SPILL CLEAN UP MATERIAL SHOULD BE KEPT NEAR STORAGE AREAS.

INSPECTION AND MAINTAINENCE

- KEEP STORAGE AREAS CLEAN AND WELL ORGANIZED, INCLUDING A CURRENT LIST OF ALL MATERIALS ONSITE.
- INSPECT LABELS ON CONTAINERS FOR LEGIBILITY AND ACCURACY.
- REPAIR OR REPLACE PERIMETER CONTROLS, CONTAINMENT STRUCTURES, COVERS, AND LINERS AS NEEDED TO MAINTAIN PROPER FUNCTION.

B



NOTE: PLACE NET-WRAPPED FIBER ROLL IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' ROLL.

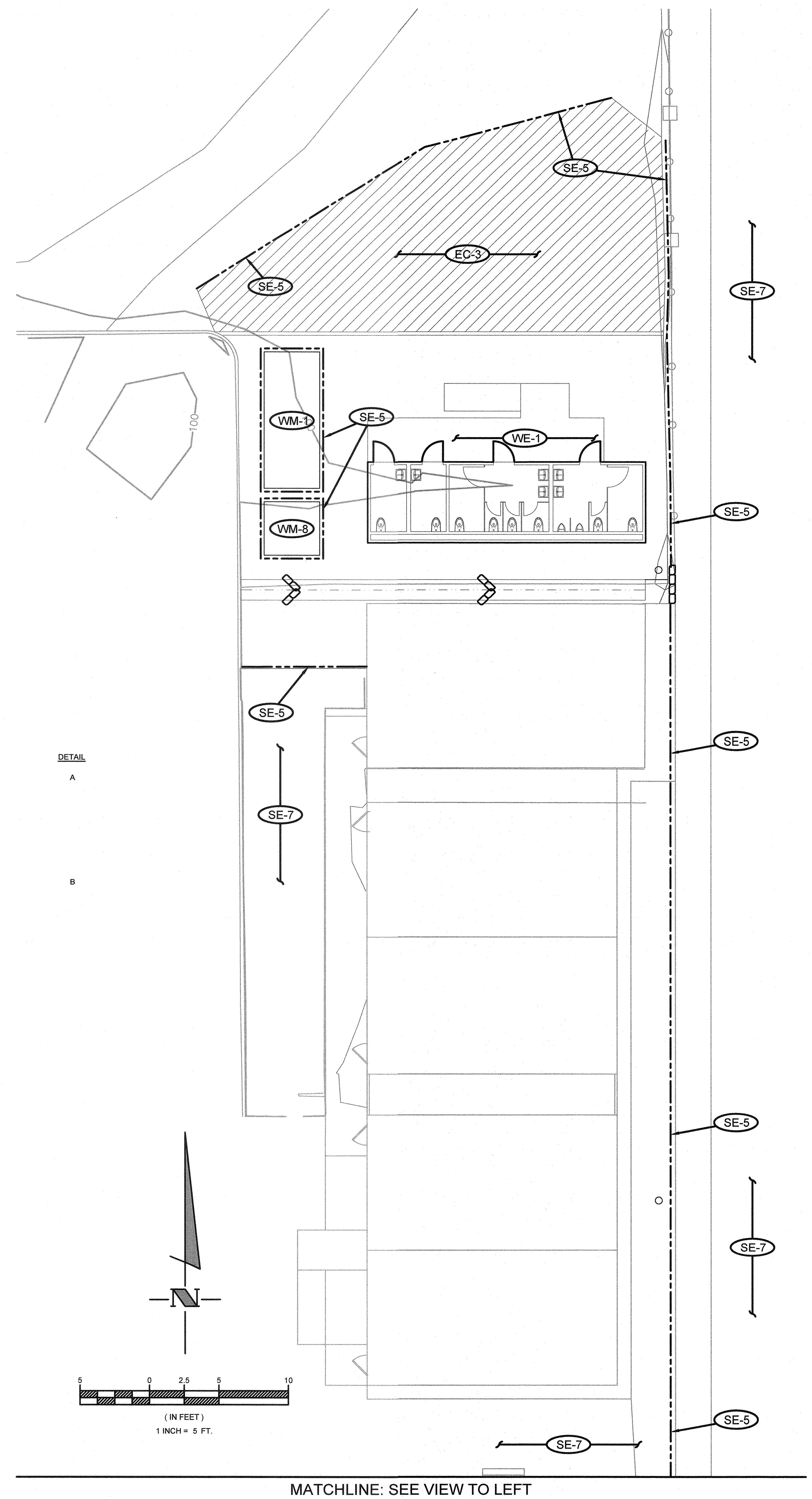
FIBER ROLLS

-NTS-

A

EROSION CONTROL NOTES:

SYMBOL	CASQA#	DESCRIPTION	DETAIL
— — — (dashed line)	SE-5	INSTALL FIBER ROLLS PER MANUFACTURERS SPECIFICATIONS.	A
(hatched area)	EC-3	INSTALL HYDROMULCH TO DISTURBED SLOPES.	
(gravel bags)	SE-6	INSTALL GRAVEL BAG BERM.	
	WE-1	PROVIDE WIND EROSION CONTROL.	
	SE-7	PROVIDE STREET SWEEPING & VACUUMING.	
	WM-1	MATERIAL DELIVERY & STORAGE	B
	WM-8	CONCRETE WASHOUT	



AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12
APPL 03-119782
AC / FLS / SS 27
DATE 05/06/2019

PMSM ARCHITECTS

19·6 ARCHITECTS

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REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

EROSION CONTROL PLAN

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

C-3.01

DATE: APRIL 15, 2019 SHEET ____OF____

PLOT BY: AGE03 PLOT DATE: Apr 15, 2019 - 9:18am Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Civil\18102-C301-EC.dwg

PLOT BY: Above Grade PLOT DATE: May 01, 2019 - 8:49am Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Elec\18102-E-001_GenNts&Lgnd.dwg

GENERAL NOTES:

1. COMPLIANCE: ALL WORK, PRODUCTS, AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, ETC. OF ALL AUTHORITIES HAVING JURISDICTION IN EFFECT AT THE TIME OF THE BUILDING PERMIT. WORK SHALL COMPLY WITH (BUT IS NOT LIMITED TO) THE FOLLOWING CODES, STANDARDS AND ORGANIZATIONS :
   - A. CALIFORNIA CODE OF REGULATIONS, TITLE 24 (2016 EDITION) INCLUDING CALIFORNIA ELECTRICAL CODE BASED ON THE 2014 NATIONAL ELECTRIC CODE, CALIFORNIA FIRE CODE BASED ON THE 2015 INTERNATIONAL FIRE CODE, CALIFORNIA ENERGY CODE, CALIFORNIA BUILDING CODE BASED ON THE 2015 INTERNATIONAL BUILDING CODE, AND THE CALIFORNIA RESIDENTIAL CODE (WHERE APPLICABLE) BASED ON THE 2015 INTERNATIONAL RESIDENTIAL CODE.
   - B. NFPA
   - C. UNDERWRITERS LABORATORY (UL), IRI, FM
   - D. IESNA
   - E. AMERICANS WITH DISABILITYES ACT (ADA).

   WHERE CONFLICTS EXIST BETWEEN CODES, STANDARDS OR THIS SPECIFICATION, THE HIGHER REQUIREMENT SHALL APPLY. DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY THE ABOVE AUTHORITIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKERS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF INJURY TO OTHERS ON OR NEAR THE PROJECT SITE DUE TO NEGLIGENT SAFETY PRACTICES. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY ARCHITECT AND/OR OWNER.

   THE ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF HIS WORKERS, ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR COORDINATING THE WORK UNDER THIS CONTRACT. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION. CONTRACTOR SHALL PROTECT THEIR WORK AND EXISTING OR ADJACENT PROPERTY AGAINST WEATHER TO MAINTAIN THEIR WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

3. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
   - RECEPTACLES, TELEPHONE, TV & DATA OUTLETS: +15" AFF (MEASURED BOTTOM OF OUTLET BOX)
   - OUTLET ABOVE COUNTER: +46" AFF (MEASURED TOP OF OUTLET BOX)
   - LIGHT SWITCHES: +48" AFF (MEASURED TOP OF OUTLET BOX)
   - FIRE ALARM MANUAL PULL STATIONS & T-STATS: +48" AFF (MEASURED TOP OF OUTLET BOX)
   - FIRE ALARM VISUALS: THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: .

   ACCESSIBILITY REACH RANGES (CBC 11B-308):
   GENERAL REACH RANGES:
   - ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]
   - ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   FORWARD REACH RANGES:
   - HIGH FORWARD REACH THAT IS UNOBSTRUCTED SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. [CBC 11B-308.2.1]
   - HIGH FORWARD REACH THAT IS IS OVER AN OBSTRUCTION SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES OR LESS AND 44 INCHES MAXIMUM WHERE THE REACH DEPTH EXCEEDS 20 INCHES. HIGH FORWARD REACH SHALL NOT EXCEED 25 INCHES IN DEPTH. [CBC 11B-308.2.2]

   SIDE REACH RANGES:
   - HIGH SIDE REACH WHERE THE SIDE REACH IS UNOBSTRUCTED OR THE DEPTH OF ANY OBSTRUCTION DOES NOT EXCEED 10 INCHES SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR . [CBC 11B-308.3.1]
   - HIGH SIDE REACH WHERE THE HIGH SIDE REACH IS OVER AN OBSTRUCTION MORE THAN 10 INCHES BUT NOT MORE THAN 24 INCHES IN DEPTH SHALL BE 46 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND . [CBC 11B-308.3.2]
   - OBSTRUCTIONS FOR HIGH SIDE REACH SHALL NOT EXCEED 34 INCHES IN HEIGHT AND 24 INCHES IN DEPTH. [CBC 11B-308.3.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

4. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

6. PANELBOARDS SHALL BE PROVIDED WITH A CIRCUIT DIRECTORY IDENTIFYING EACH BRANCH CIRCUIT, AND SWITCHBOARDS SHALL BE PROVIDED WITH CIRCUIT IDENTIFICATION FOR EACH SWITCH OR CIRCUIT BREAKER PER 2016 CEC 408.4(A). FEEDERS SHALL BE MARKED TO INDICATE WHERE THE POWER SUPPLY ORIGINATES PER 2016 CEC 408.4.(B).

7. PRIOR TO ROUGH-IN: VERIFY ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING HEIGHTS, STUB UPS, ETC. WITH ARCHITECT OR OWNER. ARCHITECTURAL SHEETS SHALL GOVERN. PLACE DEVICES TO AVOID CONFLICT WITH COUNTERS, SHELVING, ETC.

8. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE IN ADDITION TO THE SPECIFIED CABLE.

9. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS. PER 2016 CEC ARTICLE 300.11.

10. POWER, CONTROL, SIGNAL, AND COMMUNICATION CONDUCTOR / CABLE INSULATION TYPE SHALL BE USED FOR THE PROPER ENVIRONMENTAL APPLICATION (I.E., WATERPROOF, WET LOCATION, PLENUM, TEMPERATURE RATED).

11. ALL CONDUCTORS, WIRING, CABLE WHERE INSTALLED BELOW FLOOR, SLAB OR UNDERGROUND SHALL BE CONSIDERED WET LOCATIONS, AND SHALL BE RATED ACCORDINGLY. NON WATERPROOF CABLING IS NOT ALLOWED IN ANY BELOW GRADE OR WET APPLICATION.

12. WIRING METHODS: ONLY C.E.C. RECOGNIZED METHODS OF WIRING SHALL BE PERMITTED TO BE INSTALLED IN ANY TYPE OF BUILDING OR OCCUPANCY (2016 CEC 110.8).
    - A. COMMERCIAL OCCUPANCY: MINIMUM EMT, RIGID, FLEX, PVC AS APPLICABLE TO LOCATION.

13. EQUIPMENT ANCHORAGE AND BRACING NOTES:
    - A. EQUIPMENT ANCHORAGE NOTES:
      - I. ALL ELECTRICAL AND MECHANICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.
        - a. ALL PERMANENT EQUIPMENT AND COMPONENTS.
        - b. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
        - c. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
      - II. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN ANCHORED:
        - a. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
        - b. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH THE CBC AND ASCE 7.
        - c. TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
        - d. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
        - e. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
      - III. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
    - B. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
      - I. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
      - II. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE- APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
      - III. COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
      - IV. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

13. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND JUDGMENTS ARISING OUT OF THE CONTRACTORS PERFORMANCE OF THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

14. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL ALL ELECTRICAL FIXTURES AND EQUIPMENT AS TO ENSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING, STRUCTURE OR OCCUPIED AREAS. THE DECISION OF THE ENGINEER AS TO THE QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY FIXTURES OR EQUIPMENT AS REQUIRED.

EXISTING BUILDINGS

1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.

2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

3. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCES FOR VARIATIONS FROM THAT SHOWN.

4. EXISTING CONDITIONS: INTERCEPT, EXTEND, REROUTE, REPULL, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.

5. EXISTING COMMUNICATION, DATA, AND ALL OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE PLANS TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION AS EXISTING IN NEW LOCATION.

6. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS, AND/OR OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.

7. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. A MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY OPERATIONS.

GENERAL POWER PLAN NOTES:

1. INSTALL SEPARATE NEUTRALS FOR EACH 120V BRANCH CIRCUIT.
2. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
3. ELECTRICAL AND COMMUNICATION OUTLETS SHOWN IN THE SAME LOCATION SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.
4. CONTROLLED RECEPTACLES SHALL HAVE A PERMANENT MARKING PROVIDED BY MANUFACTURER TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
5. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.
6. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY CEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.
7. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1)3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE AND/OR SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.
8. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.

GENERAL DEMOLITION PLAN NOTES:

A. REFER TO ARCHITECTURAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.

B. EQUIPMENT SHOWN TO BE REMOVED IS SHOWN FOR REFERENCE ONLY. INFORMATION WAS OBTAINED FROM ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION, AND MAY NOT REPRESENT ALL ELECTRICAL DEMOLITION. FIELD VERIFY CONDITIONS AND DISCONNECT/REMOVE ALL EQUIPMENT AS REQUIRED TO MEET THE INTENT OF THAT SHOWN ON THE ELECTRICAL DRAWINGS.

C. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWINGS (OR REQUIRED) TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY ELECTRICAL CONTRACTOR. NO EQUIPMENT (RACEWAYS, BOXES, CABLING, ETC.) SHALL BE ABANDONED IN PLACE AND COVERED BY NEW CONSTRUCTION.

D. CLEAN, REPAIR (AS REQUIRED) AND RELAMP ALL EXISTING LIGHT FIXTURES THAT ARE TO REMAIN AND BE RE-USED TO ASSUME ALL FIXTURE ARE OPERATIONAL UPON COMPLETION OF PROJECT.

E. ANY LIGHT SWITCHES THAT ARE NO LONGER IN USE, WHETHER SHOWN ON THE DEMOLITION PLAN OR NOT, ARE TO HAVE THE DEVICE AND WIRING REMOVED, AND A BLANK COVER PLATE INSTALLED.

F. SCHEDULE ANY OUTAGES WITH OWNER PRIOR TO DE-ENERGIZATION OF ANY BRANCH CIRCUITS OR FEEDERS.

G. DISCONNECTION/REMOVAL OF EXISTING COMMUNICATIONS SYSTEMS COMPONENTS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH THEIR VENDORS.

H. ALL REMOVED COMPONENTS SHALL BE SALVAGED TO THE OWNER.

I. INFORMATION SHOWN FOR LOAD DESCRIPTIONS ON EXISTING PANELS WAS GAINED FROM ORIGINAL BUILDING ELECTRICAL PLANS AND SHALL BE FIELD VERIFIED. CONFIRM LOAD ON EACH CIRCUIT OF ALL EXISTING PANELS AND PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY (IN PLASTIC SLEEVE) FOR EACH EXISTING PANELBOARD.

J. ANY LOADS REMOVED DURING DEMOLITION SHALL HAVE CONDUCTORS REMOVED BACK TO NEXT REMAINING DEVICE OR TO EXISTING PANELS. ABANDONED BREAKERS SHALL BE LABELED "SPARE".

K. PROVIDE BLANK FILLER PLATES IN DEADFRONTS OF EXISTING PANELBOARDS UPON COMPLETION OF PROJECT WHERE BREAKERS HAVE BEEN REMOVED.

L. PROVIDE NEW PLASTIC, LAMINATED ENGRAVED NAMEPLATES FOR EACH EXISTING PANEL TO MATCH NEW PANELS.

GENERAL FIRE ALARM NOTES:

SEE SHEET E-011 FOR FIRE ALARM GENERAL NOTES.

ABBREVIATIONS AND SYMBOLS LEGEND

(NOTE: INTERPRET IN CONTEXT)

A	AMPERE
AB	AMP BREAKER
ABAND	ABANDONED
ABV	ABOVE
AC	ALTERNATING CURRENT, ABOVE COUNTER
AC - #	AIR CONDITIONER
ADJ	ADJACENT
AF	AMP FUSE, AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	AMP RATING OF FUSED SWITCH
AIC	AMPERES INTERRUPTING CAPACITY
Al	ALUMINUM
AMP	AMPERE
AS	AMP SWITCH RATING
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIBLE / AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISH GRADE
BLDG	BUILDING
C	CONDUIT
CAB'T	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CB	CODE BLUE
CBC	CA. BUILDING CODE
CEC	CA. ELECTRICAL CODE
CEnC	CA. ENERGY CODE, CA. ENERGY COMMISSION
CF	CEILING FAN
CFL	COMPACT FLUORESCENT
CFC	CALI FORNIA FIRE CODE
CLG	CEILING
CL	CENTER LINE
CKT	CIRCUIT
CNT'R	CONTRACTOR
C.O.	CONDUIT ONLY (W / PULLROPE)
COND	CONDUIT, CONDUCTOR
CR	CRITICAL BRANCH
CSFM	CALIFORNIA SFM
CT	CURRENT TRANSFORMER
Cu	COPPER
CU - #	CONDENSING UNIT
D	DEPTH, DEEP
(D)	DEMO
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DW	DISHWASHER
(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EC - #	EVAPORATIVE COOLER
EF - #	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY, EMERG BATTERY BACKUP
EMERG	EMERGENCY
EOL	END OF LINE
EQUIP	EQUIPMENT
(EXN)	(E) IN (N) LOCATION
(EXR)	(E) TO BE (R)
EXT	EXTERIOR
(F)	FUTURE
F - #	FURNACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FAU	FORCED AIR UNIT
FBO	FURNISHED BY OTHERS
FC	FAN CONTROLLER
FC - #	FAN COIL
FF	FUSED FOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUNDING CONDUCTOR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GWS	GANG WITH SWITCH
H	HEIGHT, HIGH
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
hp	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IC	INTERCOM
ID	IDENTIFICATION
IG	ISOLATED GROUND
JBOX	JUNCTION BOX
k	QUANTITY 1,000
kAIC	AVAILABLE SHORT CIRCCUIT CURRENT (kA)
kVA	KILOVOLT AMPS
kW	KILOWATT
LC	LIGHTING CONTACTOR
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY BRANCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CKT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MECH CONTROL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCTB	MAIN CATV TERMINAL BOARD
MCTC	MAIN CATV TERMINAL CABINET
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSIBLE SWITCH
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OCP
MPOE	MAIN POINT OF ENTRY (COMMUNICATIONS UTILITY)
MSB	MAIN SWITCHBOARD
MT	MOUNT
MT HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
MTTB	MAIN TELEPHONE TERMINAL BOARD
MTTC	MAIN TELEPHONE TERMINAL CABINET
MW	MICROWAVE
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
N3R	NEMA 3R
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OS	OCCUPANCY SENSOR
OSA	OFFICE OF THE STATE ARCHITECT
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
OVLD	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PULL CHAIN
PC	PHOTOCELL
PC	PLUMBING CONTRACTOR
PH	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
PV	PHOTOVOLTAIC
(R)	RELOCATE(D)
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RQMT'S	REQUIREMENTS
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RMC	RIGID METAL CONDUIT
RMV	REMOVE
RPLC	REPLACE
RS	RAPID START
SC	SIGNAL CABINET
SCC	SHORT CKT CURRENT
SFM	STATE FIRE MARSHAL
SHT	SHEET
SL	SWITCH LEG
SM.APPL	SMALL APPLIANCE
SPEC	SPECIFICATION
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
STOR	STORAGE
STP	SHIELDED TWISTED PAIR
SURF	SURFACE
SVC	SERVICE
SW	SWITCH
T	TRANSFORMER, TERMINAL
(TBR)	TO BE REMOVED
TC	TIME CLOCK
TCO	TIME CLOCK OVERRIDE
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TX	TRANSFORMER
TYP	TYPICAL
TYP SIM	TYPICAL SIMILAR
UC	UNDERCABINET, UNDERCOUNTER
UG	UNDERGROUND
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
USA	UG SVC ALERT 800-642-2444
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT AMPERES
VAC	VOLT ALTERNATING CURRENT
VHO	VERY HIGH OUTPUT
VIF	VERIFY IN FIELD
VOLT	VOLTAGE
VR	VANDAL-RESISTANT
W	WIDTH, WIDE, WATT, WIRE
WSHR	WASHER
WH - #	WATER HEATER
WP	WEATHERPROOF (NEMA 3R)
WPI	WEATHERPROOF IN-USE, METALLIC
XFMR	TRANSFORMER
+48	INDICATES MOUNTING HEIGHT AFF

MISCELLANEOUS

▱	PANEL (FLUSH OR SURFACE PER PLANS)
▭	CABINET (FLUSH OR SURFACE PER PLANS)
⊗	EQUIPMENT
○	MOTOR
◩	FUSED DISCONNECT
□	NON-FUSED DISCONNECT
$	TOGGLE SWITCH DISCONNECT
⊠	MOTOR STARTER
⊠	COMBINATION MOTOR STARTER
▯	CIRCUIT BREAKER
Ⓣ	THERMOSTAT
T	TRANSFORMER

POWER & COMMUNICATIONS

⏀	RECEPTACLE - SINGLE (SIMPLEX)
⏀	RECEPTACLE - DUPLEX
⏀	RECEPTACLE - QUAD
◎	RECEPTACLE - CEILING MOUNTED
⏀	RECEPTACLE - FLOOR BOX
⏀	RECEPTACLE - SPECIAL CONFIGURATION 1-PHASE
▽	RECEPTACLE - SPECIAL CONFIGURATION - 3-PHASE
Ⓙ	JUNCTION BOX
⏀ +48	DEVICE MOUNTING HEIGHT AFF / AFG (COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGHIN)
⏀ AC	DEVICE MOUNTED ABOVE COUNTER. (COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGHIN)
⏀ OS	RECEPTACLE HALF-SWITCHED (U.O.N.) FOR AUTOMATIC ON/OFF CONTROL BY AREA/ROOM OCCUPANCY SENSOR
⏀ TC	RECEPTACLE HALF-SWITCHED (U.O.N.) FOR AUTOMATIC ON/OFF CONTROL BY TIME CLOCK
CM	DETECTOR - CARBON MONOXIDE
SD	DETECTOR - SMOKE
SD CM	DETECTOR - SMOKE CARBON MONOXIDE COMBINATION
▽	DATA OUTLET - (#) = QTY. OF CABLES (2 CABLES IF NOT NOTED)
▼	TELEPHONE OUTLET - (#) = QTY. OF CABLES (1 CABLES IF NOT NOTED)
▼	TELEPHONE / DATA OUTLET - (#) = QTY. OF CABLES (2 CABLES IF NOT NOTED)
▼	LOW VOLTAGE OUTLET - CEILING MOUNTED
▼	LOW VOLTAGE OUTLET - FLOOR BOX
Ⓙ	JUNCTION BOX - FLOOR MOUNTED
TV	TELEVISION OUTLET
◷ S	CLOCK/SPEAKER COMBINATION
◷	CLOCK
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
S WP	SPEAKER - WEATHER PROOF (EXTERIOR)
▼ IC	INTERCOM HANDSET
⌐	SECURITY CAMERA

LIGHTING PLAN CIRCUITING LEGEND

- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHED DESIGNATIONS.
- EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.
- HOME RUN CONDUITS SHALL BE 3/4" CONDUIT MINIMUM, MAXIMUM OF (5) BRANCH CIRCUITS PER CONDUIT.

POWER PLAN CIRCUITING LEGEND

- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- ISOLATED GROUND CIRCUITS SHALL HAVE A SEPARATE NEUTRAL.
- HOME RUN CONDUITS SHALL BE 3/4" CONDUIT MINIMUM, MAXIMUM OF (5) BRANCH CIRCUITS PER CONDUIT.
- SEE EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

LIGHTING FIXTURES

⊡	RECESSED DOWNLIGHT
◙	RECESSED WALLWASHER
⊘	RECESSED DOWNLIGHT - ADJUSTABLE AIM
○ □	SURFACE CEILING
⌖	PENDANT MOUNTED
▭	PENDANT - LINEAR
⧄	RECESSED TROFFER
▭	SURFACE CEILING - LINEAR
├─○─┤	SURFACE STRIP
├──┤	UNDERCABINET
⊤	SURFACE WALL - LINEAR
♀ ⊤	SURFACE WALL MTD / WALL SCONCE
⊓	STEP LIGHT
○─	TRACK SECTION (HEAD QTY. AS SPECIFIED OR AS INDICATED ON PLANS)
◁	TRACK HEAD
⊻	EMERGENCY LIGHT
∝	FLOOD LIGHT
○─□	POLE LIGHT - SINGLE HEAD
□─○─□	POLE LIGHT - DOUBLE HEAD (180° SHOWN)
◎ ⊡	POLE LIGHT - POLE-TOP-MOUNTED
⌖ ⌖	POLE LIGHT - POLE-TOP-MTD DECORATIVE / ARCHITECTURAL
⬡	IN-GRADE UPLIGHT
⊡	BOLLARD
⊗	EXIT SIGN - CEILING MOUNTED
⊗	EXIT SIGN - WALL MOUNTED
⊗	EXIT SIGN ARROWS REPRESENT DIRECTIONAL INDICATORS. PROVIDE PER PLAN OR AS REQUIRED.
▬ ▣	FIXTURE WITH EMERGENCY BATTERY BACKUP (INTEGRAL BATTERY, INVERTER CIRCUIT, OR ON EMERGENCY POWER CIRCUIT)

SWITCHES & LIGHTING CONTROLS

$	SPST
$ 2	DPST
$ 3	3-WAY
$ 4	4-WAY
$ D	DIMMER
$ T	W/ THERMAL OVERLOAD
$ P	W/ PILOT LIGHT
$ K	KEYED OPERATED
$ LV	LOW VOLTAGE
$ OS	OCCUPANCY SENSOR WALL SWITCH
$	TIMER SWITCH
OS	OCCUPANCY SENSOR - CEILING
VS	VACANCY SENSOR - CEILING
PP	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR
SP	SLAVE PACK FOR LOW VOLTAGE OCCUPANCY SENSOR

CONDUIT & WIRE

────	NEW
— — —	UNDERGROUND
— · · —	OVERHEAD
— · —	LOW VOLTAGE
═══	EXISTING
- - - -	DEMOLISH
─┼┼┼►	POWER HOME RUN (3 HOTS & NEUTRAL SHOWN - GROUND IS INCLUDED WHERE NOT INDICATED)
─┼●►	GROUND WIRE INDICATED IN POWER HOME RUN
─┼●●►	ISOLATED GROUND WIRE INDICATED IN POWER HOME RUN
──]	CONDUIT STUB
──]•	CONDUIT STUB WITH MARKER
──∫	INDICATES LINE CONTINUES
⏚	GROUND
∿	FLEXIBLE CONNECTION
▬	SURFACE RACEWAY (WIREMOLD)

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC *JC* FLS *SPH* SS *JST*
DATE 05/06/2019

PMSM
ARCHITECTS

19six
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REN. 09-30-19

CONSULTANT STAMP
JUSTIN D. COOK
No. E22521
EXP. 12-31-20
A.G.E.
05/01/2019 #18102

REVISIONS

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE
HUENEME ELEMENTARY SCHOOL DISTRICT
HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION
405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE
GENERAL NOTES AND LEGEND

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.
E-001

DATE: MAY 6, 2019 SHEET ____ OF ____

LOAD SUMMARY

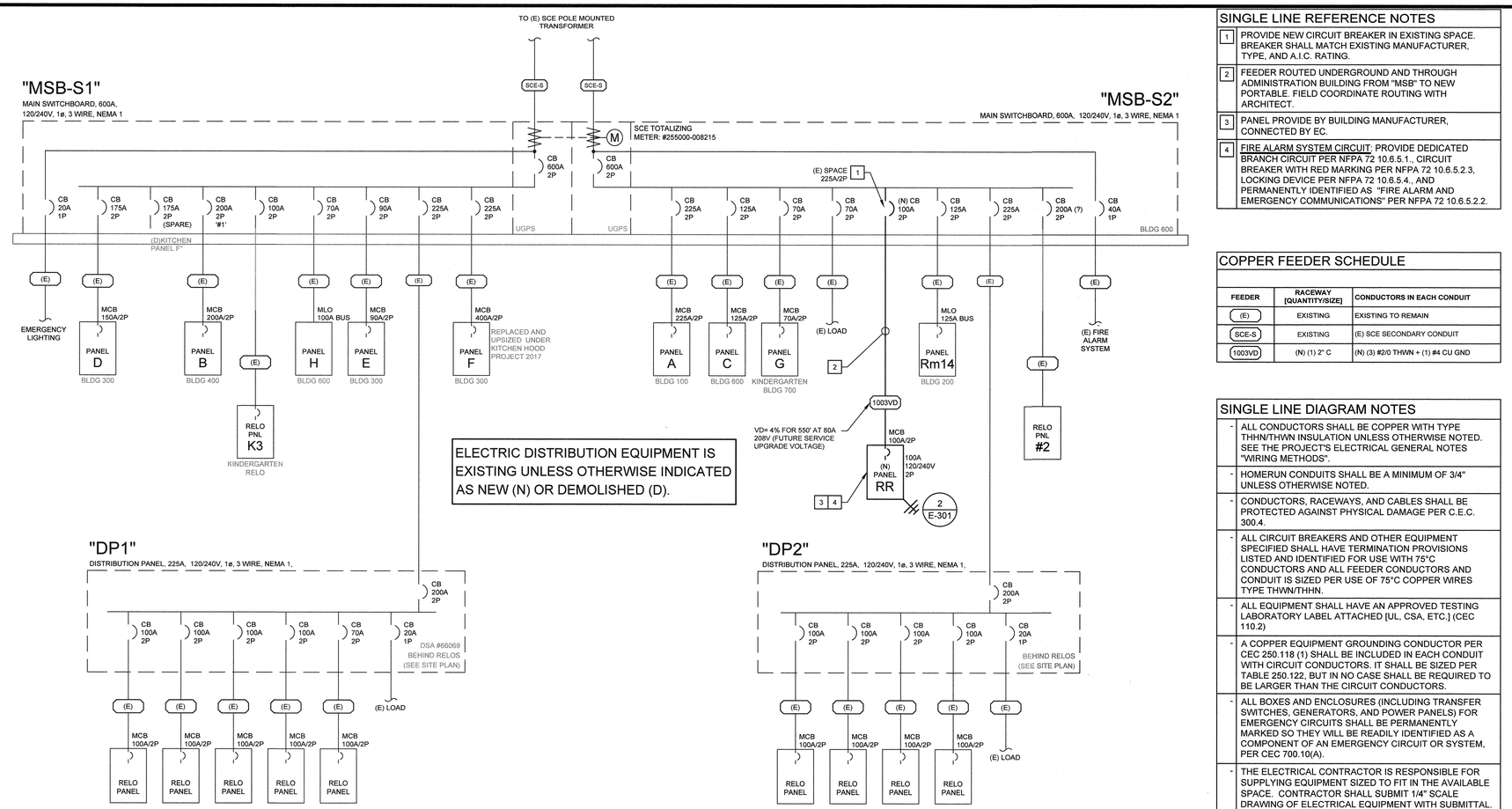
MAIN SWITCHBOARD "MSB"
1200A [(2) 600A SECTONS], 120/240V, 1Ø, 3W

SCE 1-YEAR DEMAND HISTORY FROM 10/2017-10/2018

EXISTING PEAK DEMAND	=	112	kW
÷ 0.8 pf	=	140	kVA
x 1.25 (CEC 220.87)	=	175	kVA
(E) "MSB" CALCULATED LOAD		175.00	kVA
(N) RELO PANEL LOAD:	+	002.23	kVA
(N) FACP/EVAC LOAD:	+	000.50	kVA
TOTAL		177.73	kVA
		729.17	Amps

NOTES:

- EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.
- SOURCE OF POWER HAS BEEN INVESTIGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD.
- SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS.



SINGLE LINE DIAGRAM

NTS

SINGLE LINE REFERENCE NOTES

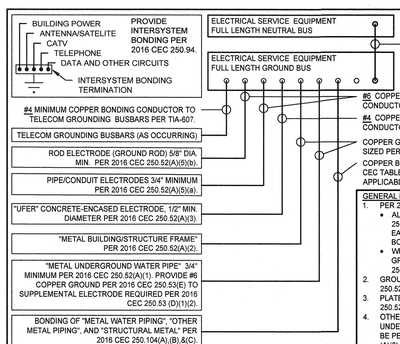
1	PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE. BREAKER SHALL MATCH EXISTING MANUFACTURER, TYPE, AND A.I.C. RATING.
2	FEEDER ROUTED UNDERGROUND AND THROUGH ADMINISTRATION BUILDING FROM "MSB" TO NEW PORTABLE. FIELD COORDINATE ROUTING WITH ARCHITECT.
3	PANEL PROVIDE BY BUILDING MANUFACTURER, CONNECTED BY EC.
4	FIRE ALARM SYSTEM CIRCUIT: PROVIDE DEDICATED BRANCH CIRCUIT PER NFPA 72 10.6.5.1., CIRCUIT BREAKER WITH RED MARKING PER NFPA 72 10.6.5.2.3, LOCKING DEVICE PER NFPA 72 10.6.5.4., AND PERMANENTLY IDENTIFIED AS "FIRE ALARM AND EMERGENCY COMMUNICATIONS" PER NFPA 72 10.6.5.2.2.

COPPER FEEDER SCHEDULE

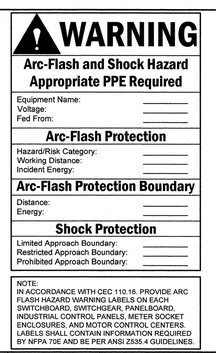
FEEDER	RACEWAY (QUANTITY/SIZE)	CONDUCTORS IN EACH CONDUIT
(E)	EXISTING	EXISTING TO REMAIN
SCE-S	EXISTING	(E) SCE SECONDARY CONDUIT
1003VD	(N) (1) 2" C	(N) (3) #2/0 THWN + (1) #4 CU GND

SINGLE LINE DIAGRAM NOTES

- ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION UNLESS OTHERWISE NOTED. SEE THE PROJECT'S ELECTRICAL GENERAL NOTES "WIRING METHODS".
- HOMERUN CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
- CONDUCTORS, RACEWAYS, AND CABLES SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE PER C.E.C. 300.4.
- ALL CIRCUIT BREAKERS AND OTHER EQUIPMENT SPECIFIED SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75°C CONDUCTORS AND ALL FEEDER CONDUCTORS AND CONDUIT IS SIZED PER USE OF 75°C COPPER WIRES TYPE THWN/THHN.
- ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110.2)
- A COPPER EQUIPMENT GROUNDING CONDUCTOR PER CEC 250.118 (1) SHALL BE INCLUDED IN EACH CONDUIT WITH CIRCUIT CONDUCTORS. IT SHALL BE SIZED PER TABLE 250.122, BUT IN NO CASE SHALL BE REQUIRED TO BE LARGER THAN THE CIRCUIT CONDUCTORS.
- ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM, PER CEC 700.10(A).
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING EQUIPMENT SIZED TO FIT IN THE AVAILABLE SPACE. CONTRACTOR SHALL SUBMIT 1/4" SCALE DRAWING OF ELECTRICAL EQUIPMENT WITH SUBMITTAL.
- IDENTIFICATION OF DISCONNECTING MEANS: EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE AND OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED (CEC 110.22(A)).
- SWITCHGEAR AND PANELBOARD FIELD IDENTIFICATION: EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. EACH CIRCUIT IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO DISTINGUISH IT FROM ALL OTHERS. PANELBOARD CIRCUIT IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR. SWITCHBOARD CIRCUIT IDENTIFICATION SHALL BE INCLUDED AT EACH SWITCH OR CIRCUIT BREAKER. (CEC 408.4(A))
- SERIES RATED EQUIPMENT SHALL NOT BE ALLOWED.



2 GROUND/BOND DETAIL



1 ARC FLASH WARNING SIGN

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 2nd
DATE 05/06/2019

PMSM ARCHITECTS
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ARCHITECT STAMP

CONSULTANT STAMP

A.G.E. 05/01/2019 #18102

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

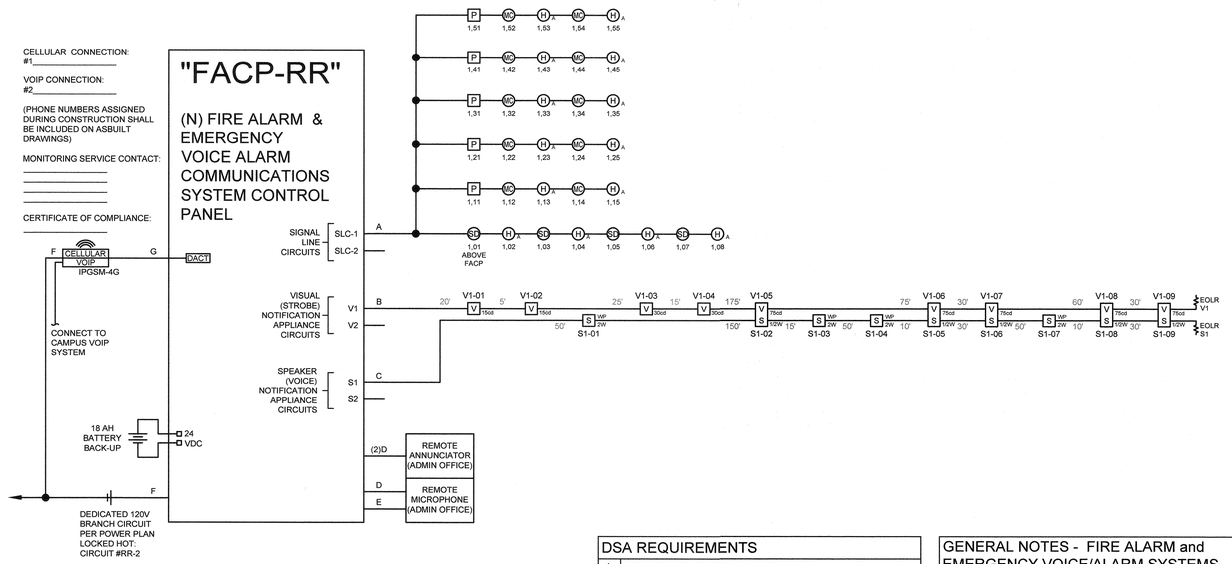
SINGLE LINE DIAGRAM

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

E-002

DATE: MAY 6, 2019 SHEET ____ OF ____



FIRE ALARM WIRE LEGEND

I.D.	CIRCUIT TYPE	DESCRIPTION	GAUGE	CABLE TYPE	CABLE RATING	PART NUMBER / MANUFACTURER
A	SLC, ADDRESSABLE (INITIATING)	UNSHIELDED TWISTED PAIR (UTP)	16 AWG	GENERAL PURPOSE	FPL	D990 / WEST PENN
			16 AWG	WET LOCATION	FPL	AQ225 / WEST PENN
			16 AWG	RISER	FPLR	990 / WEST PENN
			16 AWG	PLENUM	FPLP	60991B / WEST PENN
B	VISUAL NAC (NOTIFICATION)	UNSHIELDED TWISTED PAIR (UTP)	12 AWG	GENERAL PURPOSE	FPL	998 / WEST PENN
			12 AWG	WET LOCATION	FPL	AQ227 / WEST PENN
			12 AWG	RISER	FPLR	998 / WEST PENN
			12 AWG	PLENUM	FPLP	60995B / WEST PENN
C	SPEAKER NAC (NOTIFICATION)	SHIELDED TWISTED PAIR (STP)	12 AWG	GENERAL PURPOSE	FPL	999 / WEST PENN
			12 AWG	WET LOCATION	FPL	AQ296 / WEST PENN
			12 AWG	RISER	FPLR	999 / WEST PENN
			12 AWG	PLENUM	FPLP	60994B / WEST PENN
D	REMOTE ANNUNCIATOR CIRCUIT	UNSHIELDED TWISTED PAIR (UTP)	16 AWG	GENERAL PURPOSE	FPL	D990 / WEST PENN
			16 AWG	WET LOCATION	FPL	AQ225 / WEST PENN
			16 AWG	RISER	FPLR	990 / WEST PENN
			16 AWG	PLENUM	FPLP	60991B / WEST PENN
E	REMOTE MICROPHONE CIRCUIT	SHIELDED TWISTED PAIR (STP)	16 AWG	GENERAL PURPOSE	FPL	991 / WEST PENN
			16 AWG	WET LOCATION	FPL	AQ294 / WEST PENN
			16 AWG	RISER	FPLR	991 / WEST PENN
			16 AWG	PLENUM	FPLP	60990B / WEST PENN
F	120VAC POWER	SOLID OR STRANDED	(2) 12 AWG	-	THHN/ THWN	VARIOUS
G	PHONE LINES	4-PAIR CABLE	24 AWG	-	CAT 5/5E/6	VARIOUS

NOTES:
- VERIFY CABLE REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
- RISER-TYPE CABLES CAN BE SUBSTITUTED FOR GENERAL PURPOSE TYPE CABLES PER C.E.C. 760.154(A).

FIRE ALARM SYSTEM OPERATION MATRIX

ACTION	RESPONSE: ANNUNCIATE AT "FACP" & REMOTE ANNUNCIATOR(S) "ALARM"	"TROUBLE"	"SUPER-VISORY"	SIGNAL TO CENTRAL STATION "ALARM"	"TROUBLE"	"SUPER-VISORY"	ACTIVATE NACs	SHUT DOWN FAN/AHU	CLOSE ASSOC. SFD	RECALL ELEVATOR TO PRIMARY FLOOR	RECALL ELEVATOR TO ALTERNATE FLOOR	ELEVATOR POWER SHUNT TRIP
FA SYSTEM POWER LOSS, LOW BATTERY, OPEN CIRCUIT, GROUND FAULT, NAC SHORT CIRCUIT, ETC.		X			X							
MANUAL PULL STATION	X			X			X					
SMOKE DETECTOR	X			X			X					
HEAT DETECTOR	X			X			X					
CO DETECTOR			X			X						

FIRE ALARM EQUIPMENT LEGEND

	MANUFACTURER	MODEL	COMPONENT	MOUNTING HEIGHT/DETAILS	CALIFORNIA STATE FIRE MARSHAL LISTING #
	GAMEWELL-FCI	E3	FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE EVACUATION COMMUNICATION	ON WALL	7165-1703:0125
		ILI-MB-E3	MOTHERBOARD WITH (2) SLC AND (2) NAC		
		LCD-SLP	LCD TOUCHSCREEN ANNUNCIATOR DISPLAY		
		RPT-E3	NETWORK REPEATER MODULE		
		DACT-E3	DIGITAL ALARM COMMUNICATOR TRANSMITTER MODULE		
		ASM-16	ADDRESSABLE SWITCH MODULE (FOR PAGING MICROPHONE)		
		PM-9	POWER SUPPLY MODULE		
		AM-50	50 WATT VOICE POWER AMPLIFIER - (2) SPEAKER CIRCUITS - 25V (SEE VOLTAGE DROP CALCULATIONS)		
		INI-VGX	VOICE GATEWAY MODULE		
		INCC-MIC	EVAC PAGING MICROPHONE MODULE		
		FML-E3	FIBER LOOP MODULE - MULTIMODE [FOR FUTURE INTERCONNECTION TO FORTHCOMING CAMPUS FIRE ALARM UPGRADED SYSTEM TO BE LOCATED IN BUILDING 600.]		
		E3-SERIES	CABINET (SIZE AS REQUIRED)		
	HONEYWELL	IPGSM-4G	CELLULAR OR IP DIALER	ON WALL	7300-1645:0199
ANN	GAMEWELL-FCI	LCD-SLP	FIRE ALARM ANNUNCIATOR / REMOTE ANNUNCIATOR	ON WALL (COORDINATE LOCATION WITH ARCHITECT)	7165-1703:0125
MIC		INCC-MIC	EVAC MICROPHONE / REMOTE MICROPHONE		
		E3-SERIES	CABINET (SIZE AS REQUIRED), MOUNT TOGETHER IN		
P	GAMEWELL-FCI	MS-7ASF	MANUAL PULLSTATION, SINGLE ACTION	ON WALL	7150-1703:0119
SD	GAMEWELL-FCI	ASD-PL2F	SMOKE DETECTOR, PHOTO ELECTRIC	ON CEILING	7272-1703:0121
		B210LP	SENSOR BASE		7300-1653:0109
H A	GAMEWELL-FCI	ATD-HL2F	HEAT DETECTOR IN ATTIC, 190 DEG.	IN ATTIC	7270-1703:0115
		B210LP	SENSOR BASE		7300-1653:0109
MC	GAMEWELL-FCI	MCS-COF	MULTI-CRITERIA DETECTOR: SMOKE, HEAT, CARBON MONOXIDE, & LIGHT/FLAME	ON CEILING	7272-1703:0173
		B210LP	SENSOR BASE		7300-1653:0109
V _cd	SYSTEM SENSOR	SR	VISUAL (STROBE) (CANDELLA RATING PER PLAN)	ON WALL	7125-1653:0186
SV _cd	SYSTEM SENSOR	SPSR	SPEAKER / VISUAL (SPEAKER STROBE) (CANDELLA RATING PER PLAN)	ON WALL	7320-1653:0201
S WP	SYSTEM SENSOR	SPRK	SPEAKER- WEATHERPROOF	ON WALL	7320-1653:0201

DSA REQUIREMENTS

1. APPLICABLE STANDARD 2016 NFPA 72.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH CFC 901.6.2. PROVIDE STATEMENT OF COMPLIANCE.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER, AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, ULIN ACCORDANCE WITH CBC 1705A.17.1. REFER TO TYPICAL PENETRATION FIRESTOP DETAILS FOR APPROVED TYPE OF MATERIALS.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 80" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL OF 75 DB SHALL BE MAINTAINED FOR A DURATION OF AT LEAST 60 SECONDS.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH PER SECOND, THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 55' OF EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES SHALL BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72 7.5.6 AND 14.2.5.
22. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
26. WIRING AND MATERIALS SHALL BE PER CEC 760.

GENERAL NOTES - FIRE ALARM and EMERGENCY VOICE/ALARM SYSTEMS

A. PROVIDE ALL WORK AND MATERIAL REQUIRED FOR COMPLETE AND OPERATING FIRE ALARM AND EMERGENCY VOICE/ALARM COMMUNICATION (EVAC) SYSTEM. WOK SHALL INCLUDE BUT NOT LIMITED TO:
1. PRODUCT DATA SUBMITTAL, INCLUDING CUTSHEETS AND CSFM LISTINGS FOR EVERY SYSTEM COMPONENT WHICH IS TO BE INTERCONNECTED AS PART OF THIS PROJECT.
2. COMPLETE INSTALLATION AND TESTING.
3. SYSTEM TRAINING FOR OWNER'S REPRESENTATIVE.
4. WARRANTY.

B. ALL FIRE ALARM COMPONENTS SHALL HAVE CURRENT CALIFORNIA STATE FIRE MARSHAL LISTING.

C. ALL CABLES SHALL BE INSTALLED IN CONDUIT, 1" MINIMUM.

D. BATTERIES SHALL HAVE A MANUFACTURE DATE ADEQUATE TO COMPLY WITH THE 5-YEAR SPAN REQUIREMENT.

E. FIRE ALARM CONTROL PANEL SHALL B PROVIDED WITH DIALER (DACT) AND CONNECTED TO COMMUNICATIONS SYSTEM AS REQUIRED TO SEND SEPARATE AND DISTINCT SIGNALS.

F. FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION (UUFX) OR REMOTE STATION (UUUS) MONTORING COMPANY PER CFC 907.2.3.5 AND 907.6.5.

G. EVAC SYSTEM SHALL BE PROVIDED WITH A MICROPHONE (INTEGRAL AND/OR REMOTE). SEE FIRE ALARM FLOOR PLAN FOR LOCATION OF REMOTE MICROPHONE (WHERE APPLICABLE).

H. EVAC SYSTRM SHALL HAVE TE FOLLOWING PROGRAMMED MESSAGES IN BOTH ENGLISH AND SPANISH:
- THIS IS A TEST OF THE EMERGENCY AUDIO SYSTEM.
- MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! THE SIGNAL YOU JUST HEARD INDICATED A REPORT OF AN EMERGENCY IN THIS BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NO RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES.
- YOUR ATTENTION PLEASE. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY.

I. AFTER CONSTRUCTION, PROVIDE ACCURATE FIELD RECORD DRAWINGS TO OWNER PER CFC 901.6.2.1.

J. DOCUMENTATION CABINET:
1. A DOCUMENTATION CABINET SHALL BE PROVIDED FOR EVERY NEW SYSTEM AND INSTALLED AT THE FIRE ALARM CONTROL PANEL PER NFPA 72 7.7.2.1.
2. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET PER NFPA 72 7.7.2.2.
3. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" PER NFPA 72 7.7.2.4.
4. INSPECTION, TESTING, AND MAINTENANCE RECORDS SHALL BE RETAINED FOR THE APPLICABLE DURATION PER NFPA 72 14.6.2.

K. DEDICATED BRANCH CIRCUIT(S) SHALL BE PROVIDED FOR FACP/EVAC EQUIPMENT PER NFPA 72 10.6.5.1 AND 10.6.5.2. THE ASSOCIATED CIRCUIT BREAKER SHALL HAVE RED MARKING PER NFPA 72 10.6.5.2.3, SHALL HAVE A LISTED LOCKING DEVICE INSTALLED PER NFPA 72 10.6.5.4, AND SHALL BE PERMANENTLY IDENTIFIED AS "FIRE ALARM/ EMERGENCY COMMUNICATIONS" PER NFPA 72 10.6.5.2.2.

L. DEDICATED BRANCH CIRCUT SHALL BE PROVIDED FOR THE FIRE SPRINKLER BELL. THE ASSOCIATED CIRCUIT BREAKER SHALL HAVE A LISTED LOCKING DEVICE INSTALLED PER NFPA 72 10.6.5.4. AND SHALL BE PERMANENTLY IDENTIFIED AS "FIRE SPRINKLER BELL" PER NFPA 72 10.6.5.2.2.

M. INSTALLING CONTRACTOR SHALL BE FIRE/LIFE SAFETY CERTIFIED BY THE DEPARTMENT OF INDUSTRIAL RELATIONS (DIR).

NOTIFICATION DEVICE NUMBERING LEGEND

NOTIFICATION APPLIANCE CIRCUIT NUMBER — V — DEVICE SYMBOL — N1-05 — DEVICE NUMBER

INITIATING DEVICE NUMBERING LEGEND

SIGNAL LINE CIRCUIT NUMBER — SD — DEVICE SYMBOL — 1, 05 — DEVICE ADDRESS NUMBER

COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

SYSTEM DESCRIPTION:
- SYSTEM TYPE: AUTOMATIC
- INITIATING CIRCUIT CLASS: 'B'
- NOTIFICATION CIRCUIT CLASS: 'B'

SYSTEM DESIGNER (NFPA 72 7.2.2)

JUSTIN COOK, P.E.
ELECTRICAL ENGINEER

AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
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ARCHITECT STAMP
LICENSED ARCHITECT ROSA E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP
LICENSED PROFESSIONAL ENGINEER JUSTIN D. COOK No. E22521 Exp. 12-31-20 ELECTRICAL STATE OF CALIFORNIA
A.G.E. 05/06/2019 #18102

REVISIONS

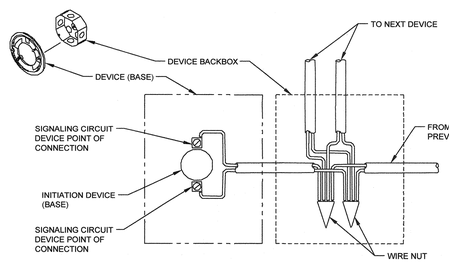
THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE
HUENEME ELEMENTARY SCHOOL DISTRICT
HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION
405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE
FIRE ALARM RISER DIAGRAM

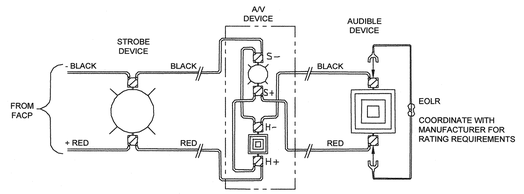
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.
E-011
DATE: MAY 6, 2019 SHEET ____ OF ____



3 TYPICAL ADDRESSABLE INITIATION CIRCUIT WIRING DIAGRAM

SCALE: NTS



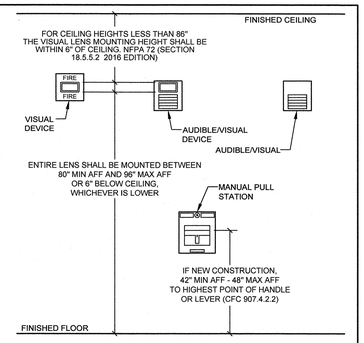
2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM

SCALE: NTS

AUDIBLE DEVICES:
IF CEILING HEIGHTS ALLOW, WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NON LESS THAN 90" AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6" THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED OR RECESSED APPLIANCES NFPA 72 (SECTION 18.4.8.1, 2016 EDITION). IF COMBINATION AUDIBLE/VISUAL APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF NFPA 72 (SECTION 18.5.5.1, 2016 EDITION).

VISUAL DEVICES:
FLASH RATE: SHALL NOT EXCEED 2 FLASHES PER SECOND NOR BE LESS THAN 1 FLASH PER SECOND. WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. NFPA 72 (SECTION 18.5.5.1 2016 EDITION).

MANUAL PULL STATION:
EACH MANUAL FIRE ALARM BOX SHALL BE SECURELY MOUNTED. THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 3-1/2FT AND NOT MORE THAN 4' ABOVE FLOOR LEVEL. CFC 907.4.2.2.



1 DEVICE ELEVATION DETAIL

SCALE: NTS

Voltage Drop Calculations - Visual NAC's - Fire Alarm Control Panel "FACP-RR"

HESD - HATHAWAY RESTROOM

VISUAL CIRCUIT #1

ID	Device	Manufacturer / Model	Settings	Device Current	Current at Device	Distance	AWG	Panel Voltage	Voltage Drop	Ohm/Foot
V1-01	Visual	System Sensor / SR	15 cd	0.066 Amps	1.110 Amps	20 Feet	12 AWG	24	0.089 Volts	0.002010
V1-02	Visual	System Sensor / SR	15 cd	0.066 Amps	1.044 Amps	5 Feet	12 AWG	24	0.021 Volts	0.002010
V1-03	Visual	System Sensor / SR	30 cd	0.094 Amps	0.978 Amps	25 Feet	12 AWG	24	0.098 Volts	0.002010
V1-04	Visual	System Sensor / SR	30 cd	0.094 Amps	0.884 Amps	15 Feet	12 AWG	24	0.053 Volts	0.002010
V1-05	Visual (Combination Speaker/Visual)	System Sensor / SR	75 cd	0.158 Amps	0.790 Amps	175 Feet	12 AWG	24	0.556 Volts	0.002010
V1-06	Visual (Combination Speaker/Visual)	System Sensor / SR	75 cd	0.158 Amps	0.632 Amps	75 Feet	12 AWG	24	0.191 Volts	0.002010
V1-07	Visual (Combination Speaker/Visual)	System Sensor / SR	75 cd	0.158 Amps	0.474 Amps	30 Feet	12 AWG	24	0.057 Volts	0.002010
V1-08	Visual (Combination Speaker/Visual)	System Sensor / SR	75 cd	0.158 Amps	0.316 Amps	60 Feet	12 AWG	24	0.076 Volts	0.002010
V1-09	Visual (Combination Speaker/Visual)	System Sensor / SR	75 cd	0.158 Amps	0.158 Amps	30 Feet	12 AWG	24	0.019 Volts	0.002010
V1-10			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-11			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-12			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-13			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-14			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-15			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-16			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-17			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-18			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-19			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
V1-20			cd	Amps	0.000 Amps	Feet	12 AWG	24	0.000 Volts	0.002010
					0.000					
			Total Current:	**1.110 Amps**	**Total Distance:**	**435 Feet**				
								Voltage Drop	**1.161 Volts**	
								85% OF 24V CIRCUIT VOLTAGE (PER NFPA 72, 10.3.5(1)):	**20.4 Volts**	
								Voltage at Final Device	**22.8 Volts**	
								% Voltage Drop	**4.836 %**	
								MAXIMUM ALLOWED % VOLTAGE DROP:	**10 %**	

Voltage & dB Drop Calculations - Speaker NAC's - Fire Alarm Control Panel "FACP-RR"

Project Name

SPEAKER CIRCUIT #1

ID	Device		Settings	Device Current	Current at Device	Distance	AWG	Panel Voltage	Voltage Drop	
S1-01	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.360 Amps	50 Feet	12 AWG	25	0.0724 Volts	0.002010
S1-02	Speaker, Weatherproof	System Sensor / SPRK	2 Watts	0.080 Amps	0.340 Amps	150 Feet	12 AWG	25	0.2050 Volts	0.002010
S1-03	Speaker, Weatherproof	System Sensor / SPRK	2 Watts	0.080 Amps	0.260 Amps	15 Feet	12 AWG	25	0.0157 Volts	0.002010
S1-04	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.180 Amps	50 Feet	12 AWG	25	0.0362 Volts	0.002010
S1-05	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.160 Amps	10 Feet	12 AWG	25	0.0064 Volts	0.002010
S1-06	Speaker, Weatherproof	System Sensor / SPRK	2 Watts	0.080 Amps	0.140 Amps	30 Feet	12 AWG	25	0.0169 Volts	0.002010
S1-07	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.060 Amps	50 Feet	12 AWG	25	0.0121 Volts	0.002010
S1-08	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.040 Amps	10 Feet	12 AWG	25	0.0016 Volts	0.002010
S1-09	Speaker (Combination Speaker/Visual)	System Sensor / SR	0.5 Watts	0.020 Amps	0.020 Amps	30 Feet	12 AWG	25	0.0024 Volts	0.002010
S1-10			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-11			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-12			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-13			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-14			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-15			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-16			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-17			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-18			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-19			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
S1-20			Watts	0.000 Amps	0.000 Amps	Feet	12 AWG	25	0.0000 Volts	0.002010
					0.000					
				Total Current:	**0.360 Amps**	**Total Distance:**	**395 Feet**			
								Voltage Drop	**0.369 Volts**	
								Voltage at Final Device	**24.6 Volts**	
								% Voltage Drop	**1.475 %**	
	Total Wattage:		**9 Watts**					**MAXIMUM ALLOWED % VOLTAGE DROP:**	**10 %**	

dB drop = 10 x log ((Panel Voltage^2/Total Wattage)/((Panel Voltage^2/Total Wattage)+((Total Distance^2)*Ohms per foot)) — **dB Drop: -0.098 dB**

dB drop = 10 x log (1-(2 x (Ohms Per foot x Total Wire Length) / (2 x (Ohms Per foot x Total Wire Length) + (Panel Voltage ^2 / Total Wattage)) — **dB Drop: -0.098 dB**

MAXIMUM dB DROP FOR SPEAKER CIRCUIT: 0.5 dB

BATTERY CALCULATIONS - Fire Alarm Control Panel "FACP-RR"

HESD - HATHAWAY RESTROOM

	MANUFACTURER / MODEL	QTY	STANDBY CURRENT DRAW	STANDBY CURRENT TOTAL	ALARM CURRENT DRAW	ALARM CURRENT TOTAL
EQUIPMENT AND MODULES						
Main FACP Panel Modules:	Gamewell / E3					
Motherboard / 2 SLC / 2 NAC	ILI-MB-E3	1	0.081000	0.08100 Amps	0.1500	0.1500 Amps
LCD Display Module	LCD-SLP	1	0.024000	0.02400 Amps	0.0280	0.0280 Amps
Power Supply	PM-9	1	0.000000	0.00000 Amps	0.0500	0.0500 Amps
Switch / Control Module	ASM-16	1	0.011000	0.01100 Amps	0.0300	0.0300 Amps
Network Repeater Module	RPT-E3	1	0.016000	0.01600 Amps	0.0170	0.0170 Amps
DACT Module	DACT-E3	1	0.018000	0.01800 Amps	0.0180	0.0180 Amps
Voice Module	INI-VGX	1	0.150000	0.15000 Amps	0.1500	0.1500 Amps
50 Watt Amplifier (2 Circuits - Max Draw @ 50w)	AM-50	1	0.086000	0.08600 Amps	2.2060	2.2060 Amps
Fiber Transceiver	FML-E3	1	0.053000	0.05300 Amps	0.0530	0.0530 Amps
Microphone (Current Draw included in INI-VGX)	INCC-MIC	1	0.000000	0.00000 Amps	0.0000	0.0000 Amps
Remote Annunciator	Gamewell / LCD-7100	1	0.012000	0.01200 Amps	0.023000	0.0230 Amps
ADDRESSABLE DEVICES						
Smoke Detector	Gamewell / ASD-PL2F	4	0.000300	0.00120 Amps	0.00650	0.0260 Amps
Heat Detector 135 Degree	Gamewell / ATD-L2F	0	0.000300	0.00000 Amps	0.00650	0.0000 Amps
Heat Detector 190 Degree	Gamewell / ATD-HL2F	14	0.000300	0.00420 Amps	0.00650	0.0910 Amps
Multi-Criteria Fire/CO Detector	Gamewell / MCS-COF	10	0.000300	0.00300 Amps	0.00720	0.0720 Amps
Manual Pull Station	Gamewell / MS-7ASF	5	0.000400	0.00200 Amps	0.00060	0.0030 Amps
Monitor Module	Gamewell / AMM-2F	0	0.000400	0.00000 Amps	0.00060	0.0000 Amps
Dual Monitor Module	Gamewell / AMM-2IF	0	0.007500	0.00000 Amps	0.00570	0.0000 Amps
Control Relay Module	Gamewell / AOM-2RF	0	0.000400	0.00000 Amps	0.00650	0.0000 Amps
Control Module, Supervised	Gamewell / AOM-2SF	0	0.000300	0.00000 Amps	0.00030	0.0000 Amps
NOTIFICATION DEVICES						
15cd Visual (Strobe)	System Sensor / SR	2	0.00000	0.00000 Amps	0.066	0.1320 Amps
30cd Visual (Strobe)	System Sensor / SR	2	0.00000	0.00000 Amps	0.094	0.1880 Amps
75cd Visual (Strobe)	System Sensor / SR	0	0.00000	0.00000 Amps	0.158	0.0000 Amps
110cd Visual (Strobe)	System Sensor / SR	0	0.00000	0.00000 Amps	0.202	0.0000 Amps
15cd Visual (Combination Speaker/Visual)	System Sensor / SPSR	0	0.00000	0.00000 Amps	0.066	0.0000 Amps
30cd Visual (Combination Speaker/Visual)	System Sensor / SPSR	0	0.00000	0.00000 Amps	0.094	0.0000 Amps
75cd Visual (Combination Speaker/Visual)	System Sensor / SPSR	5	0.00000	0.00000 Amps	0.158	0.7900 Amps
110cd Visual (Combination Speaker/Visual)	System Sensor / SPSR	0	0.00000	0.00000 Amps	0.202	0.0000 Amps
1/8 watt Speaker (Combination Speaker/Visual)	System Sensor / SPSR	0	0.00000	0.00000 Amps	0.00500	0.0000 Amps
1/4 watt Speaker (Combination Speaker/Visual)	System Sensor / SPSR	0	0.00000	0.00000 Amps	0.01000	0.0000 Amps
1/2 watt Speaker (Combination Speaker/Visual)	System Sensor / SPSR	5	0.00000	0.00000 Amps	0.02000	0.1000 Amps
1/8 watt Speaker (Exterior Weatherproof)	System Sensor / SPRK	0	0.00000	0.00000 Amps	0.00500	0.0000 Amps
1/4 watt Speaker (Exterior Weatherproof)	System Sensor / SPRK	0	0.00000	0.00000 Amps	0.01000	0.0000 Amps
1/2 watt Speaker (Exterior Weatherproof)	System Sensor / SPRK	0	0.00000	0.00000 Amps	0.02000	0.0000 Amps
1 watt Speaker (Exterior Weatherproof)	System Sensor / SPRK	0	0.00000	0.00000 Amps	0.04000	0.0000 Amps
2 watt Speaker (Exterior Weatherproof)	System Sensor / SPRK	4	0.00000	0.00000 Amps	0.08000	0.3200 Amps
		TOTAL STANDBY		**0.4614 Amps**	**TOTAL ALARM**	**4.4470 Amps**

0.4614	AMPS x	24 HOURS	11.0736	Amp Hr	STANDBY LOAD
4.4470	AMPS x	15 MIN (0.25hr) =	1.1118	Amp Hr	ALARM LOAD
			12.1854	AMP HR	TOTAL LOAD
			1.20	DERATE FACTOR	
			14.6224	**AMP HOURS**	**REQUIRED**
(20% MIN SAFETY FACTOR REQUIRED)			**3.3776**	**AMP HOURS**	**SPARE CAPACITY**
			USE	**18**	**AMP HOUR BATTERIES**

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12

APPL 03-119782

AC ___ FLS SPH SS RJT

DATE 05/06/2019

PMSM ARCHITECTS

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LICENSED ARCHITECT ROSA E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP

LICENSED PROFESSIONAL ENGINEER JUSTIN D. COLE No. E22521 Exp 12-31-20 ELECTRICAL STATE OF CALIFORNIA

A.G.E. 05/01/2019 #18102

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

FIRE ALARM CALCULATIONS

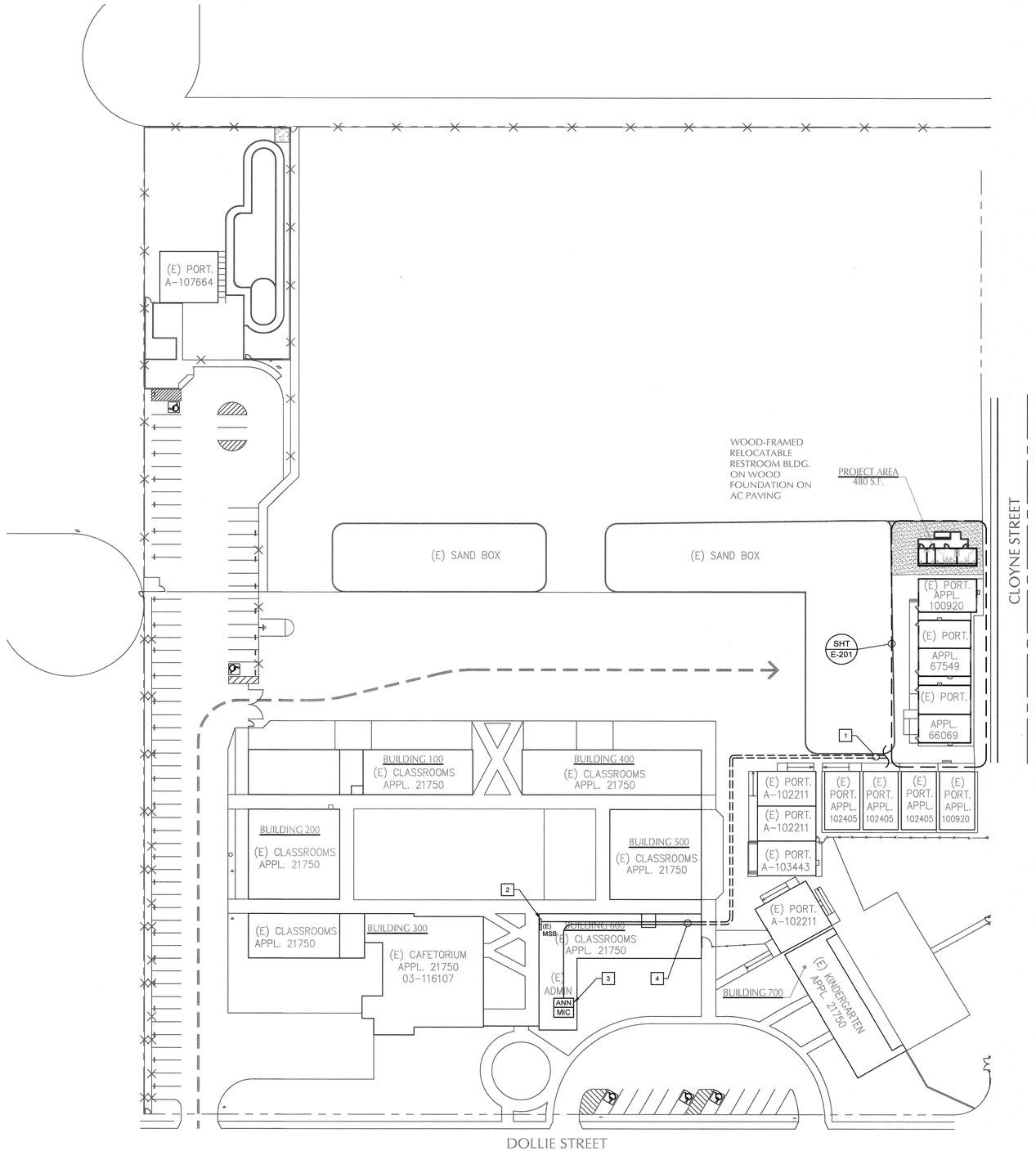
DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

E-012

DATE: MAY 6, 2019 SHEET ____ OF ____

PLOT BY: Above Grade PLOT DATE: May 01, 2019 - 8:49am Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Elec\18102-E-011~E-012_FA-Riser.dwg



SITE PLAN

SCALE: 40'-0" = 1"

SITE PLAN REFERENCE NOTES

GENERAL NOTES:

- TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE SPECIFIED AND MUST BE ADHERED TO. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICAL AND WHERE PERMITTED BY THIS SPECIFICATION.
- LOCATIONS OF EXISTING UG UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UG WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKEND EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT
- MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER, AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.
- ELECTRICAL WORK ON SITE IS SHOWN FOR REFERENCE ONLY AND EXACT ROUTING, LOCATIONS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION PRIOR TO TRENCHING AND ROUGH-IN.
- REFER TO CIVIL AND/OR ARCHITECTURAL SITE PLANS FOR DESCRIPTION OF ALL SURFACES, EXISTING AND NEW. PROVIDE SAWCUTTING/PATCHING AS REQUIRED AND RESTORATION OF SURFACES TO MATCH EXISTING.

1	SEE FLOOR PLAN SHEET E-201 FOR CONTINUATION. SEE SINGLE LINE DIAGRAM FOR FEEDER REQUIREMENTS. SEE FLOOR PLAN FOR FIRE ALARM CONDUIT REQUIREMENTS. SEE FIRE ALARM RISER DIAGRAM FOR CABLE REQUIREMENTS.
2	EXISTING "MSB". SEE SINGLE LINE DIAGRAM FOR NEW RESTROOM BUILDING FEEDER AND BREAKER REQUIREMENTS.
3	FIRE ALARM REMOTE ANNUNCIATOR AND EVAC MICROPHONE FOR NEW RESTROOM BUILDING STANDALONE FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT.
4	POWER AND FIRE ALARM CONDUIT ROUTED FROM UNDERGROUND, UP BUILDING EXTERIOR, AND THROUGH BUILDING ATTIC SPACE. SEE SINGLE LINE DIAGRAM FOR FEEDER REQUIREMENTS. SEE FLOOR PLAN FOR FIRE ALARM CONDUIT REQUIREMENTS. SEE FIRE ALARM RISER DIAGRAM FOR CABLE REQUIREMENTS.
5	NOT USED.

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12

APPL 03-119782

AC ___ FLS ___ SS ___

DATE 05/06/2019

PMSM ARCHITECTS

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STATE OF CALIFORNIA

A.G.E. #18102

05/01/2019

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

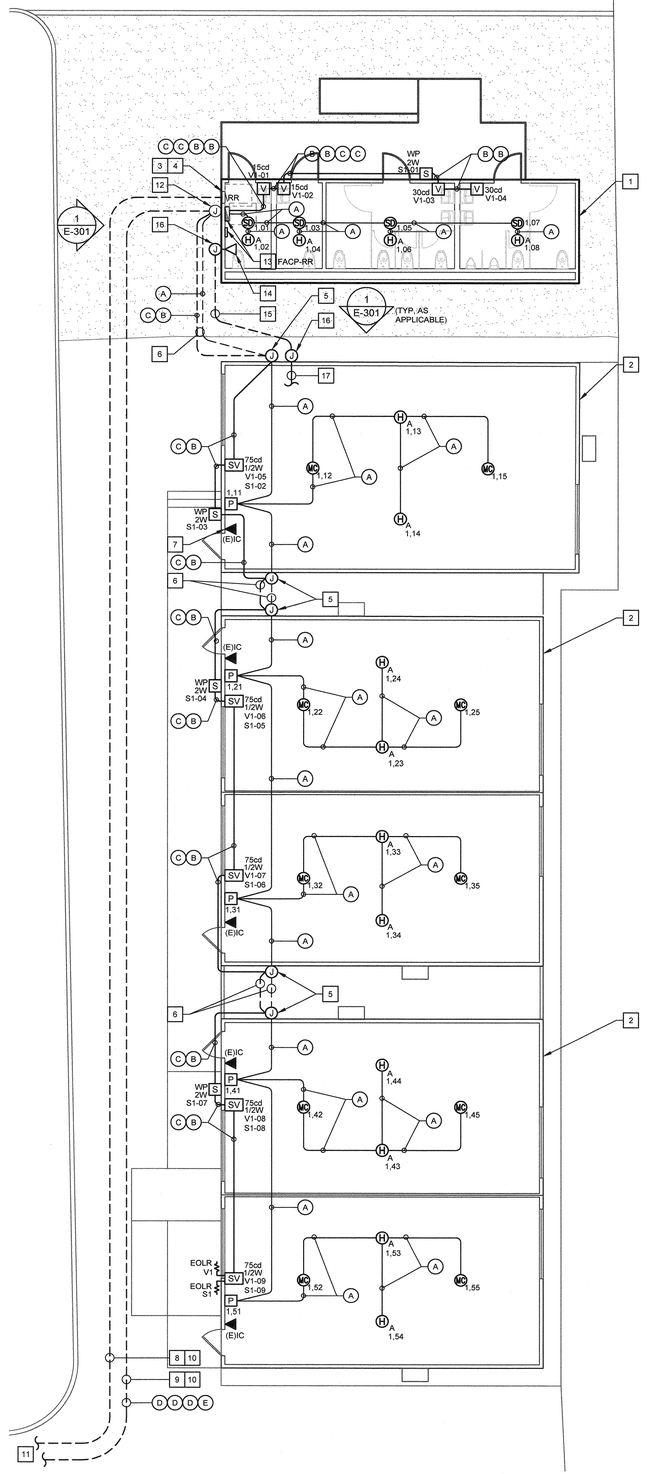
SITE PLAN

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

E-101

DATE: MAY 6, 2019 SHEET ____ OF ____



REFERENCE NOTES - POWER & SIGNAL

NOTES:

- PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS AND CEILINGS SHALL BE PER CBC 714. STEEL ELECTRICAL BOXES SHALL NOT EXCEED 16 SQUARE INCHES. AGGREGATE AREA SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL OR CEILING AREA. ELECTRICAL BOXES SHALL BE LISTED AND TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES.

1	NEW RELOCATABLE RESTROOM BUILDING. PROVIDE FIRE ALARM AND EVAC SYSTEM DEVICES AS INDICATED.
2	EXISTING BUILDING. PROVIDE NEW FIRE ALARM AND EVAC SYSTEM DEVICES AND CABLES AS INDICATED AND PER THE FIRE ALARM RISER DIAGRAM. PROVIDE CONNECTION TO NEW STAND ALONE FIRE ALARM / EVAC SYSTEM. ALL OTHER SYSTEM DEVICES/EQUIPMENT TO REMAIN U.O.N..
3	BRANCH CIRCUIT PANEL PROVIDED BY BUILDING MANUFACTURER. FIELD VERIFY EXACT LOCATION WITH SUPPLIED BUILDING.
4	DEDICATED BRANCH CIRCUIT FOR FIRE ALARM AND EVAC SYSTEM CONTROL PANEL REQUIRED FROM BUILDING PANEL PER NFPA 72 10.6.5.1. PROVIDE NEW CIRCUIT BREAKER. BREAKER SHALL HAVE RED MARKING PER NFPA 72 10.6.5.2.3, HAVE A LISTED LOCKING DEVICE INSTALLED PER NFPA 72 10.6.5.4., AND MATCH EXISTING MANUFACTURER, TYPE, AND A.I.C. RATING. BREAKER SHALL BE PERMANENTLY IDENTIFIED AS "FIRE ALARM / EMERGENCY COMMUNICATIONS" PER NFPA 72 10.6.5.2.2.
5	FIRE ALARM J-BOX: 6"W x 6"H x 4"D, NEMA 3R, HINGED WITH LOCKING T-HANDLE. LABEL "FIRE ALARM". FIELD DETERMINE EXACT LOCATION.
6	CONDUIT FOR FIRE ALARM ROUTED UNDERGROUND BETWEEN BUILDINGS.
7	EXISTING INTERCOM SYSTEM CALL STATION FOR TWO-WAY COMMUNICATION WITH THE ADMINISTRATION OFFICE AS REQUIRED FOR A STAND-ALONE FIRE ALARM SYSTEM BY 2016 CBC 907.2.3.1 EXCEPTION NOTE 2. (TYPICAL EACH EXISTING CLASSROOM.)
8	POWER FEEDER FROM "MSB". SEE SINGLE LINE DIAGRAM FOR REQUIREMENTS.
9	2" MINIMUM CONDUIT FOR FIRE ALARM REMOTE ANNUNCIATOR CABLES, EVAC REMOTE MICROPHONE CABLES, AND FUTURE FIBER (FOR INTERCONNECTION WITH FORTHCOMING CAMPUS SYSTEM UPGRADE). COORDINATE ROUTING WITH ARCHITECT FROM STAND ALONE SYSTEM IN RESTROOM BUILDING TO ADMINISTRATION BUILDING.
10	PROVIDE PULLBOXES FLUSH IN GRADE AS REQUIRED (NOT SHOWN). MINIMUM 11"x17" TRAFFIC RATED LABELED "POWER" OR "FIRE ALARM" AS APPLICABLE. SAWCUT AND PATCH EXISTING HARDSCAPE TO MATCH EXISTING.
11	SEE SITE PLAN FOR CONTINUATION.
12	FIRE ALARM J-BOX: 18"W x 18"H x 8"D, NEMA 3R, HINGED WITH LOCKING T-HANDLE. LABEL "FIRE ALARM". FIELD DETERMINE EXACT LOCATION.
13	NEW STAND-ALONE FIRE ALARM & EVAC SYSTEM PANEL AND CELLULAR / VOIP COMMUNICATOR. SEE FIRE ALARM RISER DIAGRAM FOR REQUIREMENTS.
14	PROVIDE CONNECTION FROM FIRE ALARM COMMUNICATOR TO CAMPUS VOIP SYSTEM. VERIFY CABLE AND CONNECTOR TYPE WITH DISTRICT.
15	CONDUIT FOR CONNECTION BETWEEN FIRE ALARM COMMUNICATOR AND CAMPUS VOIP SYSTEM.
16	PROVIDE SIGNAL SYSTEM TERMINAL CABINET, SIZE AS REQUIRED.
17	TO BUILDING CAMPUS VOIP SYSTEM FROM FIRE ALARM COMMUNICATOR IN NEW RESTROOM BUILDING. VERIFY CABLE TYPE WITH DISTRICT.

X	FIRE ALARM CABLE TYPE AS DESCRIBED IN THE FIRE ALARM WIRE LEGEND, SHEET E-011.

ELECTRICAL FLOOR PLAN

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

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12

APPL 03-119782

AC ___ FLS SEH SS 27

DATE 05/06/2019

PMSM ARCHITECTS

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A.G.E. 05/06/2019 #18102

REVISIONS

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

ELECTRICAL FLOOR PLAN

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

E-201

DATE: MAY 6, 2019 SHEET ____ OF ____

PLOT BY: Above Grade PLOT DATE: May 06, 2019 - 11:20am Drawing name: N:\2018\18102-Hathaway-ES-Restroom\Engineering\Condocs\Sheetfiles-Elec\18102-E-201_ElecFlr.dwg

10 NOT USED

SCALE: NTS

11 NOT USED

SCALE: NTS

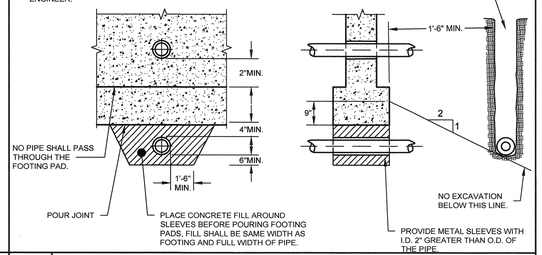
12 NOT USED

SCALE: NTS

13 NOT USED

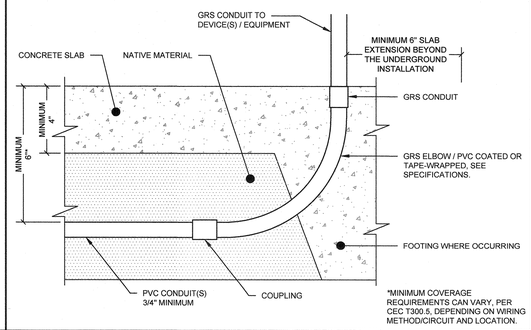
SCALE: NTS

GENERAL NOTES:
1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPE O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.



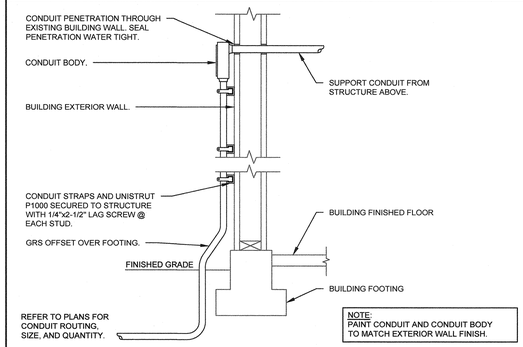
6 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

SCALE: NTS



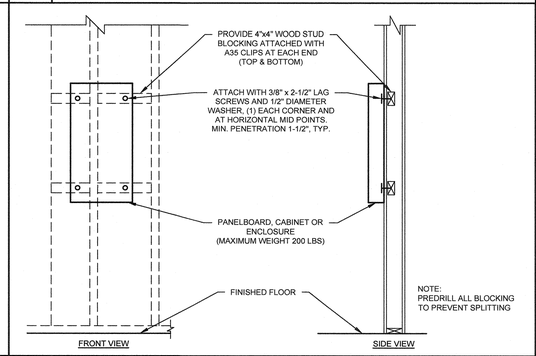
7 CONDUIT INSTALLATION ON CONCRETE SLAB ON GRADE

SCALE: NTS



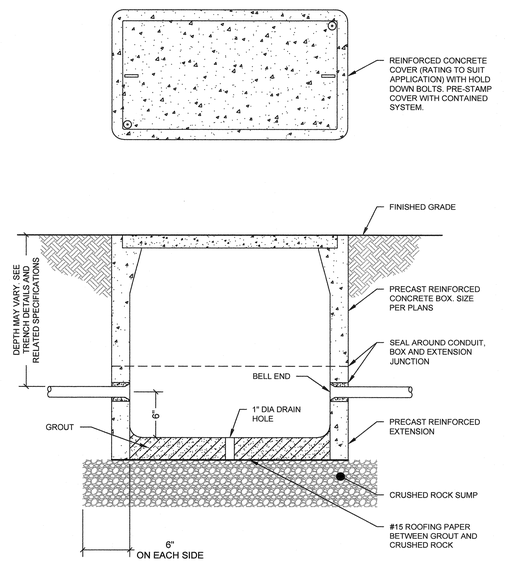
8 TYPICAL CONDUIT PENETRATION DETAIL

SCALE: NTS



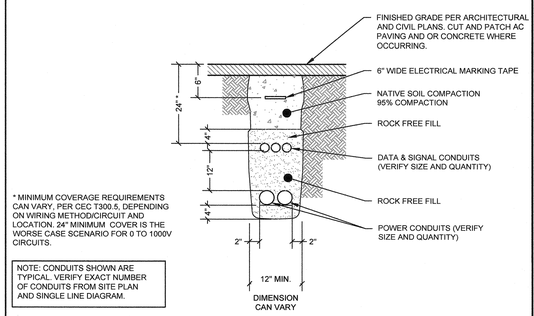
9 TYPICAL SURFACE MOUNT PANEL/CABINET ON WOOD FRAME

SCALE: NTS



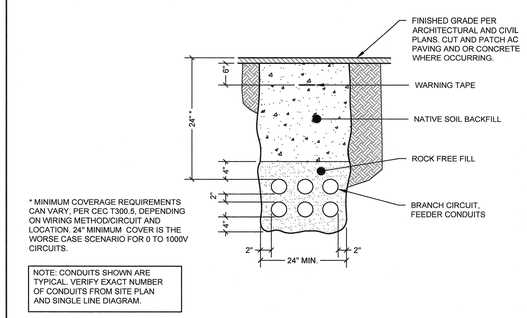
3 TYPICAL PULL BOX DETAIL

SCALE: NTS



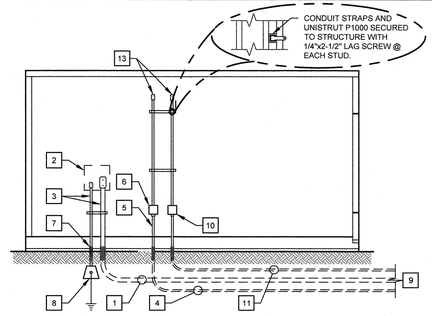
4 TYPICAL COMMON TRENCH DETAIL

SCALE: NTS



5 TYPICAL FEEDER/BRANCH CIRCUIT TRENCH DETAIL

SCALE: NTS



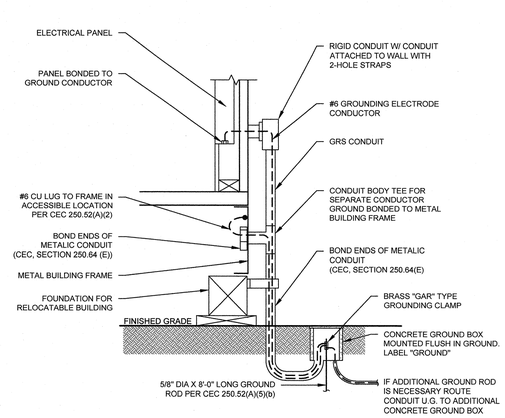
REFERENCE NOTES

THESE REPRESENTATIONS ARE APPROXIMATE ONLY. BEFORE CONSTRUCTION, FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATIONS OF EQUIPMENT.

1	(N) UNDERGROUND POWER FEEDER. REFER TO PLANS AND SINGLE LINE DIAGRAM.
2	POWER PANEL PROVIDED AND INSTALLED BY BUILDING MANUFACTURER. VERIFY EXACT LOCATION AND POINT OF CONNECTION.
3	(N) POWER FEEDER AND GROUNDING SYSTEM SURFACE MOUNTED GRS CONDUIT AND CONDUIT BODY ENTRIES INTO BUILDING POWER PANEL. SEE SINGLE LINE DIAGRAM AND GROUND/BOND DETAIL.
4	(N) SIGNAL SYSTEMS UNDERGROUND CONDUIT. REFER TO PLANS.
5	(N) SIGNAL SYSTEMS SURFACE MOUNTED GRS CONDUIT. REFER TO PLANS FOR ADDITIONAL INFORMATION.
6	(N) SIGNAL SYSTEM TERMINAL CABINET. REFER TO PLANS FOR ADDITIONAL INFORMATION.
7	INSTALL PVC TAPE/WRAP ON GRS CONDUIT FROM 6" ABOVE GRADE TO 24" BELOW GRADE. TYP.
8	GROUNDBOX FLUSH IN GRADE PER GROUND/BOND DETAIL.
9	SEE PLANS FOR CONTINUATION AND REQUIREMENTS.
10	(N) FIRE ALARM JUNCTION BOX. SEE PLANS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS.
11	(N) FIRE ALARM SYSTEM UNDERGROUND CONDUIT. SEE FIRE ALARM FLOOR PLANS AND RISER DIAGRAM.
12	NOT USED.
13	(N) FIRE ALARM AND SIGNAL SYSTEM SURFACE MOUNTED GRS CONDUIT AND CONDUIT BODY ENTRIES INTO BUILDING INTERIOR ABOVE-CEILING SPACE AS FOLLOWS: - (1)1"C FOR FIRE ALARM WITH CONDUCTORS PER FIRE ALARM RISER DIAGRAM

1 TYPICAL RELOCATABLE BUILDING REAR ELEVATION

SCALE: NTS



NOTES

-	CONDUCTORS SHALL BE #6 COPPER.
-	BOND SEPARATE CONDUCTORS FROM GROUND ROD TO PANEL AND TO METAL BUILDING FRAME PER DETAIL SHOWN. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE. (CEC 250.52(A)(1), 250.52(A)(2), & 250.52(A)(3), 250.52(A)(5)).
-	ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.
-	CHECK RESISTANCE TO GROUND PER THE 3 POINT FALL OF POTENTIAL METHOD AS DESCRIBED IN IEEE STD 81-1983. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS.
-	BOND ALL RAMP STEEL RAILINGS WITH A #6 COPPER SOLID BONDING JUMPER TO THE ELECTRIC PANEL OR THE STEEL FRAME OF THE UNIT.
-	SITE INSPECTOR SHALL WITNESS THE GROUNDING TEST PERFORMED THE THE ELECTRICAL CONTRACTOR.
-	CONTRACTOR SHALL UTILIZE A RECENTLY CALIBRATED (LESS THAN 12 MONTHS) EARTH RESISTANCE METER.

2 TYPICAL RELOCATABLE BUILDING GROUND/BOND DETAIL

SCALE: NTS

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

FILE NO. 56-12

APPL 03-119782

AC ___ FLS ___ SS ___

DATE 05/06/2019

PMSM ARCHITECTS

196 ARCHITECTS

802 EAST COTA STREET, SUITE A
SANTA BARBARA, CA 93103
TEL (805) 963-1955

CONSULTANTS

CIVIL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ELECTRICAL ENGINEER
ABOVE GRADE ENGINEERING
245 Higuera Street
San Luis Obispo, CA 93401
TEL (805) 540-5115

ARCHITECT STAMP

LICENSED ARCHITECT ROSA E. ALVARADO C-29353 REN. 09-30-19 STATE OF CALIFORNIA

CONSULTANT STAMP

LICENSED PROFESSIONAL ENGINEER JUSTIN D. COX No. E22521 Exp. 12-31-20 ELECTRICAL STATE OF CALIFORNIA

A.G.E. 05/06/2019 #18102

REVISIONS

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE

HUENEME ELEMENTARY SCHOOL DISTRICT

HATHAWAY ELEMENTARY SCHOOL-RELOCATABLE RESTROOM BUILDING ADDITION

405 EAST DOLLIE STREET
OXNARD, CA 93033

SHEET TITLE

DETAILS

DRAWN BY: MH/VM JOB NUMBER: 18101.01

SHEET NO.

E-301

DATE: MAY 6, 2019 SHEET ____ OF ____

MODULAR TOILET BUILDINGS - 12' X 40'
(MODEL~~S 'A', 'B'~~, 'C' ~~AND 'D'~~)
~~AND OPTIONAL WORKROOM 12' X 40'~~
~~(MODEL 'E')~~

PC 04-114135 HIGH SEISMIC

BY

SILVER CREEK INDUSTRIES, INC.
2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211

ELITE MODULAR - STOCKPILE # 10
(X6) 12'X40' TOILET BUILDINGS

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2013 CBC 705.3
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2013 CBC.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1406.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION
14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.507.4.3.

APPLICABLE STANDARDS

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIF AMENDED) 2013 EDITION
NFPA 72 NAT. FIRE ALARM CODE (CALIF. AMENDED) 2013 EDITION (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

APPLICABLE CODES

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2007 ASME A17.1 (w/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

BUILDING DATA

NUMBER OF STORIES:	1 - STORY
OCCUPANCY:	E: 12' x 40' BLDG
TYPE OF CONSTRUCTION:	VB
FLOOR LIVE LOAD:	☐ 50 PSF ☒ 50+15 PSF PARTITION LOAD ☐ 100 PSF ☐ 150 PSF
ROOF LIVE LOAD:	20 PSF
FLOOR DEAD LOAD:	☒ WOOD FLOOR - 11 PSF ☐ CONC FLOOR - 33 PSF
ROOF DEAD LOAD:	17 PSF (INCLUDING SPRINKLER LOAD)
RAMP LIVE LOAD:	100 PSF
BUILDING AREA:	12'x40' BLDG - 480 SF (WITHOUT OVERHANGS) 12'x40' BLDG - 540 SF (WITH OVERHANGS)
ALLOWABLE AREA: 9,500SF	
FOUNDATION:	☒ WOOD ☐ CONCRETE
CEC CLIMATE ZONES:	1-16

WIND DESIGN DATA (HIGH SEISMIC)

1. ULTIMATE WIND SPEED, 3 SEC GUST (MPH):	Vult=130 MPH/Vasd=100 MPH/Kzt = 1.0"		
2. RISK CATEGORY :	II		
3. WIND EXPOSURE :	"C"		
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT :	± 0.18		
5. COMPONENTS AND CLADDING : (STRENGTH LEVEL, PSF)			
ZONE 1 =	36.9	ZONE 4 =	36.6
ZONE 2 =	61.9	ZONE 5 =	45.0
ZONE 3 =	93.1		

EARTHQUAKE DESIGN DATA SECTION 1603.A.1.5

1. SEISMIC IMPORTANCE FACTOR :	1.0
2. MAPPED SPECTRAL RESPONSE :	
S_S = 2.80 (FOR BASE SHEAR)	S_1 = 1.00
3. SITE CLASS	D
4. SPECTRAL RESPONSE COEFFICIENTS :	
S_{DS} = 1.493	S_{D1} = 1.00
5. SEISMIC DESIGN CATEGORY :	E
6. BASIC SEISMIC-FORCE-RESISTING-SYSTEM :	STEEL OMF / SHEARWALL
7. DESIGN BASE SHEAR (kips) :	

CONC FLOOR	PLY FLOOR	LL<100	LL=150	TRANSVERSE (END WALL)	LONGITUDINAL (SIDE WALL)
X		X		15.60K	28.98K
	X	X		12.45K	23.12K
X			X	19.13K	36.30K
	X		X	15.98K	30.44K

8. SEISMIC RESPONSE COEFFICIENT, Cs : (OMF)	0.427
8a. SEISMIC RESPONSE COEFFICIENT, Cs : (SW)	0.230
9. RESPONSE MODIFICATION FACTOR, R : (OMF)	3.5
9a. RESPONSE MODIFICATION FACTOR, R : (SW)	6.5
10. ANALYSIS PROCEDURE USED :	EQUIVALENT LATERAL FORCE

SERIAL NUMBERS :

1 - 13689 - EMS 5041 - HUENEME S.D. - HATHAWAY E.S.
~~2 - 13690~~
~~3 - 13691~~
~~4 - 13692~~
~~5 - 13693~~
~~6 - 13694~~

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ____ FLS ____ SS ____
DATE 05/06/2019

SHEET INDEX

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
COVER SHEET

C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116517 ACS FLS SS DATE JUL 27 2017~~
~~ACS: R. MULLEN~~
~~FLS: JARED ATAIYAN~~
~~CSS: K ROBERTS~~

ORIGINAL PC STATE AGENCY APPROVAL
AC: J. Schaible

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ____ FLS ____ SS RAF
DATE JUL - 8 2015
SSS: R. FRENCH

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER
A-0

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT # | DSA File No.: | Application No.: | Date Submitted: | Revised: | Revised:

School Name | District

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.
-	2. COMPACTED FILLS:			Table 1705A.6
X	a. Perform qualification testing of fill materials.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test	Lab*	* Under the supervision of the geotechnical engineer.
-	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	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.
	Inspection:			
X	f. Batch plant inspection - design complies with 1705A.3.3 item 2			
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	
-	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.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	19.2 FIELD WELDING:[1, 2]			
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	
X	f. Inspect welding of stairs and railing systems	Periodic	SI*	* May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3. 1705A.2.2.1.1 and 1705A.2.2.5
-	20. NONDESTRUCTIVE TESTING:[3]			
X	a. Ultrasonic	Test	Lab	AISC 341, App. Q 5.2. AWS D1.1, D1.8.- ANSI/ASNT CP-189, SNT-TC-1A. - ASTM E543, E1444, E164 - DSA IR 17-2.
X	b. Magnetic Particle	Test	Lab	
+				
-	23. OTHER STEEL:			
X	a. SHOP WELDING OF COLD FORMED STEEL	Periodic	SI	
X	b. SHOP WELD, INSPECT WELDING OF STEEL FLOOR DECK WELDS	Periodic	SI	

SUMMARY
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 Field Welding Inspection: Special Inspection Verified Report - Form DSA-292

NOTE:
THE DIFFERENCE BETWEEN "TESTS" AND "SPECIAL INSPECTIONS" IS ADDRESSED IN IR 17-4

FOOT NOTES / OPTIONS
1. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING.
2. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING. BUILDING TO CONCRETE FOUNDATION OPTION ONLY, SEE 2/F1.50 OR 2/F2.50 AND 10/F2.51
3. THIS TEST / INSPECTION IS TBD BY AOR / DSA PER PROJECT SPECIFIC REQUIREMENTS. UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEETS S-3.01 THRU S-3.04 HAVE A THICKNESS OF 5/16" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN CJP GROOVE WELDS

CONSTRUCTION OF (Diaphragm material-foundation material)

CONCRETE FLOOR - CONCRETE FOUNDATION

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT # | DSA File No.: | Application No.: | Date Submitted: | Revised: | Revised:

School Name | District

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 REFERENCEAND 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 orhis or her qualified representative.
-	2. COMPACTED FILLS:			Table 1705A.6
X	a. Perform qualification testing of fill materials.	Test	Lab*	* Under the supervision of thegeotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer orhis or her qualified representative.
X	c. Test compaction of fill.	Test	Lab*	* Under the supervision of thegeotechnical engineer.
-	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.
	OKAY to waive testing of reinforcing steel.			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.
	Inspection:			
X	f. Batch plant inspection - design complies with 1705A.3.3 item 2	Periodic	SI	1705A.3.3, Item 2. Requires first batch inspection, weighmaster, and batch tickets.
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	
-	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 341as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341as applicable). DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	19.2 FIELD WELDING:[1, 2]			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341as applicable). DSA IR 17-3.
X	b Inspect Single Pass Fillet Welds ≤ 5/16"	Periodic	SI	
X	f. Inspect welding of stairs and railing systems	Periodic	SI*	* May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3. 1705A.2.2.1.1 and 1705A.2.2.5
-	20. NONDESTRUCTIVE TESTING:[3]			
X	a. Ultrasonic	Test	Lab	AISC 341, App. Q 5.2. AWS D1.1, D1.8.- ANSI/ASNT CP-189, SNT-TC-1A. - ASTM E543, E1444, E164 - DSA IR 17-2.
X	b. Magnetic Particle	Test	Lab	
+				
-	23. OTHER STEEL:			
X	a. SHOP WELDING OF COLD FORMED STEEL	Periodic	SI	

SUMMARY
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 Field Welding Inspection: Special Inspection Verified Report - Form DSA-292

NOTE:
THE DIFFERENCE BETWEEN "TESTS" AND "SPECIAL INSPECTIONS" IS ADDRESSED IN IR 17-4

FOOT NOTES / OPTIONS
1. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING.
2. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING. BUILDING TO CONCRETE FOUNDATION OPTION ONLY, SEE 2/F1.50 OR 2/F2.50 AND 10/F2.51
3. THIS TEST / INSPECTION IS TBD BY AOR / DSA PER PROJECT SPECIFIC REQUIREMENTS. UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEETS S-3.01 THRU S-3.04 HAVE A THICKNESS OF 5/16" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN CJP GROOVE WELDS

CONSTRUCTION OF (Diaphragm material-foundation material)

PLYWOOD FLOOR - CONCRETE FOUNDATION 2

The example form DSA 103s shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and all example form DSA-103s are to be crossed out on this drawing.

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT # | DSA File No.: | Application No.: | Date Submitted: | Revised: | Revised:

School Name | District

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			
+	CONCRETE			Table 1705A.3
+	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	
-	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.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
-	19.2 FIELD WELDING:[1, 2]			
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	
X	f. Inspect welding of stairs and railing systems	Periodic	SI*	* May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3. 1705A.2.2.1.1 and 1705A.2.2.5
	20. NONDESTRUCTIVE TESTING:[3]			
X	a. Ultrasonic	Test	Lab	AISC 341, App. Q 5.2. AWS D1.1, D1.8.- ANSI/ASNT CP-189, SNT-TC-1A. - ASTM E543, E1444, E164 - DSA IR 17-2.
X	b. Magnetic Particle	Test	Lab	
-	23. OTHER STEEL:			
X	a. SHOP WELDING OF COLD FORMED STEEL	Periodic	SI	
+	WOOD			
+	OTHER			

SUMMARY
1 All Structural Testing: Laboratory Verified Report - Form DSA-291
2 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
3 Field Welding Inspection: Special Inspection Verified Report - Form DSA-292

NOTE:
THE DIFFERENCE BETWEEN "TESTS" AND "SPECIAL INSPECTIONS" IS ADDRESSED IN IR 17-4

FOOT NOTES / OPTIONS
1. THIS TEST INSPECTION REQUIREMENT OCCURS AT FIELD WELDING.
2. NOT USED.
3. THIS TEST / INSPECTION IS TBD BY AOR / DSA PER PROJECT SPECIFIC REQUIREMENTS. UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEETS S-3.01 THRU S-3.04 HAVE A THICKNESS OF 5/16" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN CJP GROOVE WELDS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS
DATE 05/06/2019

CONSTRUCTION OF (Diaphragm material-foundation material)

PLYWOOD FLOOR - WOOD FOUNDATION 1

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

T & I FORMS

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-0A

BUILDING OPTIONS SCHEDULE

PLUMBING

PLUMBING				SHEET NUMBER	
PLUMBING PLAN AND ISOMETRICS	☐ MODEL A-1	☐ ADULT	☐ ELEMENTARY	P-1.01	A/E
	☐ MODEL A-2	☐ ADULT	☐ ELEMENTARY	P-1.01	A/E
	☐ MODEL B-1	☐ ADULT	☐ ELEMENTARY	P-1.02	A/E
	☐ MODEL B-2	☐ ADULT	☐ ELEMENTARY	P-1.02	A/E
	☐ MODEL C-1	☐ ADULT	☐ ELEMENTARY	P-1.03	A/E
	☒ MODEL C-2	☐ ADULT	☐ ELEMENTARY	P-1.03	A/E
	☐ MODEL D-1	☐ ADULT	☐ ELEMENTARY	P-1.04	A/E
☐ PLUMBING DETAILS AND SCHEDULES				P-2.01	

MECHANICAL (MODEL E ONLY)

MECHANICAL (MODEL E ONLY)	SHEET NUMBER
☒ MECHANICAL NOTES, SCHEDULES, AND DETAILS:	M-0.1
☐ WALL MOUNT	M-1.01
☐ ROOF MOUNT	M-2.01

ELECTRICAL

ELECTRICAL		SHEET NUMBER
ELECTRICAL PLAN:	☐ MODEL A-1	E-1.01
	☐ MODEL A-2	E-1.01
	☐ MODEL B-1	E-1.02
	☐ MODEL B-2	E-1.02
	☐ MODEL C-1	E-1.03
	☒ MODEL C-2	E-1.03
	☐ MODEL D-1	E-1.04
	☐ MODEL E	E-1.04

RAMP

RAMP		SHEET NUMBER
RAMP PLANS:	☐ STANDARD RAMP PLAN	R-1.01
	☐ OFFSET RAMP PLAN	R-1.02
	☒ RAMP LANDING	R-1.03
	☐ STANDARD LANDING WITH STEPS	R-1.04
	☐ SWITCHBACK RAMP PLAN	R-1.05
	☒ RAMP DETAILS	R-2.01
	☐ CONCRETE RAMP	R-3.01

BUILDING RELOCATABLE DETAILS

BUILDING RELOCATABLE DETAILS	SHEET NUMBER
☐ BUILDING RELOCATION DETAILS	REL-101

FIRE SPRINKLER PLANS

FIRE SPRINKLER PLANS	SHEET NUMBER
☐ FIRE SPRINKLER PLAN COVER SHEET	FS-1
☐ TYPICAL FIRE SPRINKLER PLANS	FS-2
☐ TYPICAL FIRE SPRINKLER DETAILS	FS-3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 357
DATE 05/06/2019

ARCHITECTURAL DETAILS

ARCHITECTURAL DETAILS			SHEET NUMBER
WALL DETAILS:	☒ WOOD STUDS	☒ EXTERIOR WOOD SIDING	A-5.50
		☐ EXTERIOR PLASTER FINISH	A-5.51
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.52
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.53
	☐ STEEL STUDS	☐ EXTERIOR WOOD SIDING	A-5.60
		☐ EXTERIOR PLASTER FINISH	A-5.61
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.62
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.63
☐ 1-HOUR RATED OPTIONS			A-5.64
FLOOR DETAILS:			A-5.70

MISCELLANEOUS DETAILS

MISCELLANEOUS DETAILS		SHEET NUMBER
MISCELLANEOUS:	☐ CASEWORK, TV, AND PROJECTION SCREEN DETAILS	A-5.80
	☒ WATER HEATER, DRINKING FOUNTAIN, AND FOLDING WALL DETAILS	A-5.81

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS		SHEET NUMBER
INTERIOR ELEVATIONS	☒ INTERIOR ELEVATIONS - WALL MOUNTED	A-6.01
	☐ INTERIOR ELEVATIONS - FLOOR MOUNTED	A-6.02

FOUNDATIONS

FOUNDATIONS		SHEET NUMBER
☒ WOOD FOUNDATION PLAN	☐ 12' x 40' (50 PSF)	F-0.01
	☒ 12' x 40' (50+15 PSF)	F-0.02
	☐ 12' x 40' (100 PSF)	F-0.03
	☐ 12' x 40' (150 PSF)	F-0.04
☒ WOOD FOUNDATION DETAILS:		F-0.50
☐ CONCRETE FOUNDATION PLAN - ABOVE GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	F-1.01
	☐ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	F-1.11
☐ CONCRETE FOUNDATION DETAILS - ABOVE GRADE:		F-1.50
☐ CONCRETE FOUNDATION PLAN - BELOW GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	F-2.01
	☐ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	F-2.11
☐ CONCRETE FOUNDATION DETAILS - BELOW GRADE:		F-2.50
☐ FOUNDATION DETAILS - CONCRETE		F-2.51

GENERAL STRUCTURAL SHEETS

GENERAL STRUCTURAL SHEETS	SHEET NUMBER
STRUCTURAL SPECS:	S-0.1

FLOOR FRAMING PLANS

FLOOR FRAMING PLANS		SHEET NUMBER
FLOOR FRAMING:	☒ WOOD FLOOR	S-1.01
	☐ CONCRETE FLOOR	S-1.11
FLOOR FRAMING DETAILS:	☒ WOOD FLOOR	S-1.50
	☐ CONCRETE FLOOR	S-1.60

ROOF FRAMING PLANS

ROOF FRAMING PLANS		SHEET NUMBER
ROOF FRAMING:	☐ 0.018", BUILT UP, OR TPO - MONO SLOPE	S-2.01
	☐ 0.030" - MONO SLOPE	S-2.02
	☐ 0.018", BUILT UP, TPO - DUAL SLOPE	S-2.11
	☒ 0.030" - DUAL SLOPE	S-2.12
ROOF FRAMING DETAILS:	☐ MONO SLOPE	S-2.50
	☒ DUAL SLOPE	S-2.51
ROOF MISC. DETAILS:		S-2.60

BUILDING SECTION

BUILDING SECTION		SHEET NUMBER
BUILDING SECTION:	☐ MONO SLOPE ROOF	S-3.01
	☐ DUAL SLOPE ROOF	S-3.02
	☐ 0.030" MONO SLOPE ROOF	S-3.03
	☒ 0.030" DUAL SLOPE ROOF	S-3.04

WALL FRAMING

WALL FRAMING		SHEET NUMBER
FRAMING ELEVATIONS:	☒ WOOD STUDS	S-5.00
	☐ STEEL STUDS	S-5.20
FRAMING DETAILS:	☒ WOOD STUDS	S-5.10
	☒ WOOD STUDS	S-5.11
	☐ STEEL STUDS	S-5.30
	☐ STEEL STUDS	S-5.31

GENERAL ARCHITECTURAL SHEETS

GENERAL ARCHITECTURAL SHEETS	SHEET NUMBER
COVER SHEET:	A-0
☒ T & I FORMS:	A-0A & A-0B
BUILDING OPTIONS SCHEDULE SHEET:	A-0.0
SYMBOLS, LEGEND, ABBREVIATION, ADA SIGNAGE SHEET:	A-0.1
SCHEDULE SHEET:	A-0.2
ENERGY COMPLIANCE FORMS	A-0.5 (A-E)
DESIGN ENERGY VALUES & CAL GREEN SPECIFICATIONS	A-0.7

FLOOR PLANS

FLOOR PLANS		SHEET NUMBER
FLOOR PLANS:	☐ FLOOR PLAN - (MODEL A-1)	A-1.01
	☐ FLOOR PLAN - (MODEL A-2)	A-1.01
	☐ FLOOR PLAN - (MODEL B-1)	A-1.02
	☐ FLOOR PLAN - (MODEL B-2)	A-1.02
	☐ FLOOR PLAN - (MODEL C-1)	A-1.03
	☒ FLOOR PLAN - (MODEL C-2)	A-1.03
	☐ FLOOR PLAN - (MODEL D-1)	A-1.04
	☐ FLOOR PLAN - (MODEL E)	A-1.04

CEILING

CEILING		SHEET NUMBER
REFLECTED CEILING PLANS:	☐ REFLECTED CEILING PLAN - (MODEL A-1)	A-2.01
	☐ REFLECTED CEILING PLAN - (MODEL A-2)	A-2.01
	☐ REFLECTED CEILING PLAN - (MODEL B-1)	A-2.02
	☐ REFLECTED CEILING PLAN - (MODEL B-2)	A-2.02
	☐ REFLECTED CEILING PLAN - (MODEL C-1)	A-2.03
	☒ REFLECTED CEILING PLAN - (MODEL C-2)	A-2.03
	☐ REFLECTED CEILING PLAN - (MODEL D-1)	A-2.04
	☐ REFLECTED CEILING PLAN - (MODEL E)	A-2.04
CEILING DETAILS:	T-GRID	A-2.20
	☐ HARD LID	A-2.21

ROOF PLAN

ROOF PLAN		SHEET NUMBER
ROOF PLANS:	☐ 0.018" ROOF - METAL DECK - MONO SLOPE	A-3.01
	☐ 0.018" ROOF - METAL DECK - DUAL SLOPE	A-3.01
	☐ 0.030" ROOF - METAL DECK - MONO SLOPE	A-3.11
	☒ 0.030" ROOF - METAL DECK - DUAL SLOPE	A-3.11
	☐ BUILT UP ROOF - MONO SLOPE	A-3.21
	☐ BUILT UP ROOF - DUAL SLOPE	A-3.21
	☐ TPO ROOF - MONO SLOPE	A-3.41
	☐ TPO ROOF - DUAL SLOPE	A-3.41
ROOF DETAILS:	☐ 0.018" ROOF - METAL DECK	A-3.50
	☒ 0.030" ROOF - METAL DECK	A-3.60
	☒ 0.030" ROOF - METAL DECK	A-3.61
	☐ BUILT UP ROOF	A-3.70
	☐ TPO	A-3.90

EXTERIOR ELEVATION

EXTERIOR ELEVATION			SHEET NUMBER
EXTERIOR ELEVATIONS:	☐ MODEL A-1	☐ MONO SLOPE	A-4.01
		☐ DUAL SLOPE	A-4.01
	☐ MODEL A-2	☐ MONO SLOPE	A-4.02
		☐ DUAL SLOPE	A-4.02
	☐ MODEL B-1	☐ MONO SLOPE	A-4.03
		☐ DUAL SLOPE	A-4.03
	☐ MODEL B-2	☐ MONO SLOPE	A-4.04
		☐ DUAL SLOPE	A-4.04
	☐ MODEL C-1	☐ MONO SLOPE	A-4.05
		☐ DUAL SLOPE	A-4.05
	☒ MODEL C-2	☐ MONO SLOPE	A-4.06
		☒ DUAL SLOPE	A-4.06
	☐ MODEL D-1	☐ MONO SLOPE	A-4.07
		☐ DUAL SLOPE	A-4.07
	☐ MODEL E	☐ MONO SLOPE	A-4.08
		☐ DUAL SLOPE	A-4.08

CROSS SECTIONS

CROSS SECTIONS		SHEET NUMBER
CROSS SECTIONS:	☐ MONO SLOPE	A-5.01
	☐ DUAL SLOPE	A-5.02
	☐ MONO SLOPE - .030" ROOF DECK	A-5.03
	☒ DUAL SLOPE - .030" ROOF DECK	A-5.04
	CROSS SECTION	A-5.05

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING OPTIONS SCHEDULE

LICENSED ARCHITECT · C-33467 · REN 01-31-2015 · STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04-[illegible]517
AC ✓ FLS ✓ SS [illegible]
DATE JUL 27 2015

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT · A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS

REVISIONS
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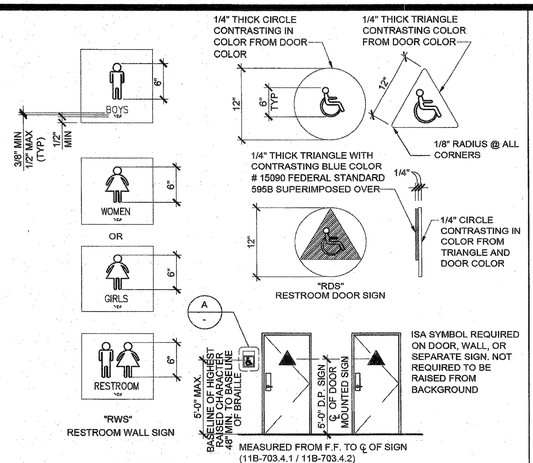
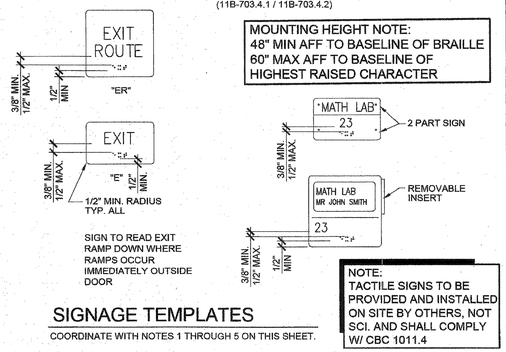
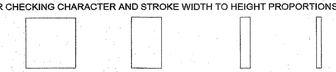
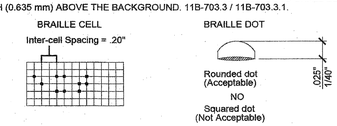
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

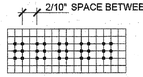
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015
P.C. SHEET NUMBER	A-0.0

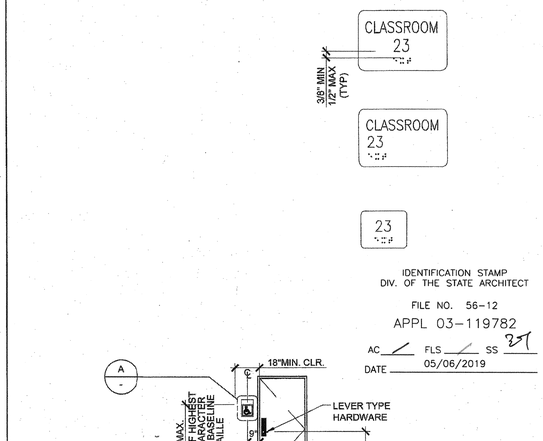


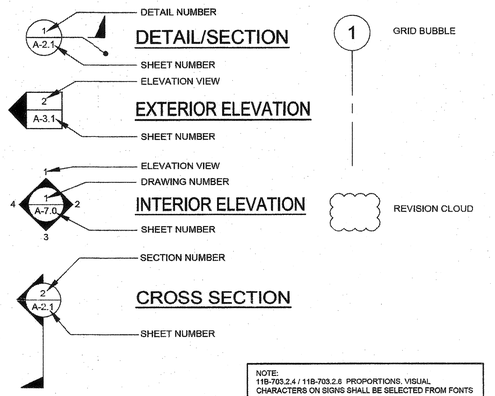












REFLECTED CEILING NOTES

METAL SUSPENSION FOR LAY-IN PANEL CEILING:

A. 12GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO THE INCLUDING 4'-0" X 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.

B. PROVIDE 12GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN & CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.

C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT THE CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYS. RUNNERS, THE MAIN AND CROSS RUNNERS SHOULD BE FREE & A MIN. OF 3/4" CLEAR OF WALL.

E. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQ'D.

F. PROVIDE BRACING ASSEMBLY CONSISTING OF A COMPRESSION STRUT (COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB) AND (4) 12GA. SPLAYED WIRES ORIENTED 90° FROM EA. OTHER AT THE FOLLOWING SPACING.
(A). PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 8'-0" X 8"-0" ON CENTER.
(B). PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EA. PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.

G. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3". HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN SPLAY WIRES WITH 4 TIGHT TURNS IN 1 1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

H. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. SEE FIGURE 3A, DETAIL F OF DSA IR 25-2.13. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.

I. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
ATTACH ALL LIGHT FIXTURES CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580 SECTION 5.3.1.
RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

J. ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING GREATER THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
ALL 4 ft. x 4 ft. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 ft. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER FIGURE 1, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E. AIRCRAFT CABLES TO WALLS, THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. SEE IR 16-9 FOR ADDITIONAL REQUIREMENT FOR PENDENT MOUNTED FIXTURES.
ALL LIGHT-WEIGHT MISCELLANEOUS DEVISES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 7.2.1, 7.2.2 & 7.2.3 OF DSA IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHTING MORE THEN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.4.1 OF DSA IR 25-2.13.
PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580 SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER.

K. CLASSIFICATION OF CEILING GRID:
CLASSIFICATION OF CEILING GRID SHALL BE "HEAVY DUTY"
MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328
2" WALL ANGLE: 7810
ARMSTRONG PER ASTM C635, C636 AND ICC-ES ESR-1308.
PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2". ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

L. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH DSA IR 25-2.13 SECTION 4, FIGURE 7, DETAIL A TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQUARE FEET. ALTERNATIVELY, COMPLY WITH ASTM E580-08 SECTION 5.2.9. - SEE 20/A-2.20

2. NOTE FOR FIRE BLK CONSTRUCTION: SECTION 718

PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS

3. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES

4. HANGER WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES

"RWS"
RESTROOM WALL SIGN

"RDS"
RESTROOM DOOR SIGN

ISA SYMBOL REQUIRED ON DOOR, WALL, OR SEPARATE SIGN. NOT REQUIRED TO BE RAISED FROM BACKGROUND

MEASURED FROM F.F. TO ℄ OF SIGN (11B-703.4.1 / 11B-703.4.2)

MOUNTING HEIGHT NOTE:
48" MIN AFF TO BASELINE OF BRAILLE
60" MAX AFF TO BASELINE OF HIGHEST RAISED CHARACTER

SIGN TO READ EXIT RAMP DOWN WHERE RAMPS OCCUR IMMEDIATELY OUTSIDE DOOR

NOTE:
TACTILE SIGNS TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT SCI. AND SHALL COMPLY W/ CBC 1011.4

SIGNAGE TEMPLATES

COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

TACTILE EXIT SIGNS

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE (SEE NOTE 5 BELOW).
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HEIGHT BASED ON THE HEIGHT OF THE UPPERCASE "I".
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1 / 11B-703.6.2 / 11B-703.7.1
4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO HEIGHT RATIO OF BETWEEN 60% MIN. AND 110% MAX. AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 10% MIN. AND 20% MAX. OF THE CHARACTER HEIGHT. 11B-703.2.4, 11B-703.2.6, 11B-703.5.7.

   ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPE STYLE TO TEST, BEGIN BY PRINTING THE LETTERS "O", AND "I" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 110% SQUARE OVER "O",IF THE CHARACTER IS NOT WIDER THAN 110% SQUARE, NOR NARROWER THAN THE 60% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 20% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF ITS IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPE STYLE IS COMPLIANT WITH PROPORTION CODE.

   TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. 11B-703.3 / 11B-703.3.1.

REQUIRED ROUNDED OR DOMED CALIFORNIA BRAILLED DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

EXAMPLE OF HOW TO DEMONSTRATE FONT TO BE USED

WIDTH-TO-HEIGHT PROPORTIONS TEMPLATE

CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

BRAILLE SPACING TEMPLATE PER TITLE 24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ⁄ FLS ⁄ SS 27
DATE 05/06/2019

NOTE:
PROVIDE ONE SIGN WHERE INDICATED ON PLANS. LOCATE SIGN MAX. 12" AWAY FROM THE DOOR STRIKE SIDE.

NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC, W/ 1.32" RAISED BORDER, GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703.

(A) ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH NOTES 1 THROUGH 5 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND

NOTE:
11B-703.2.4 / 11B-703.2.6 PROPORTIONS. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

①	DOOR TYPE
[1]	WINDOW TYPE
WC 1	PLUMBING FIXTURE
△1	REVISION TO ORIGINAL DRAWING

ABBREVIATIONS

AB	ANCHOR BOLT
ABS	ABSOLUTE
ABV	ABOVE
ACC	ACCESS
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGC	ABOVE GRADE CONCRETE
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL / ARCHITECT
BD	BOARD
BGC	BELOW GRADE CONCRETE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BTWN	BETWEEN
BU	BUILT UP
CAB	CABINET
CBC	CALIFORNIA BUILDING CODE
CI	CAST IRON
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSK	COUNTERSINK
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	END NAIL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXT	EXTERIOR
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FTG	FOOTING
FOF	FACE OF FINISH
GA	GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
GR	GRADE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HF	HEM FIR
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
INCL	INCLUDED
INFO	INFORMATION
INT	INTERIOR
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
KO	KNOCK OUT
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUNDS
LT	LIGHT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MAX	MAXIMUM
MB	MACHINE BOLT
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULE
MTL	METAL
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK
NL	NAIL
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
℘ OR PL	PLATE
PC	PRE-CHECKED
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POC	POINT OF CONNECTION
POT	PATH OF TRAVEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAG	RETURN AIR GRILLE
RD	ROOF DRAIN
REF	REFERENCE
REG	REGISTER
REINF	REINFORCE
REQ'D	REQUIRED
REV	REVISION
RF	ROOF
RM	ROOM
RO	ROUGH OPENING
ROH	ROOF OVERHANG
SCHED	SCHEDULE
SEC	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STS	SELF-TAPPING SCREW
STSMS	SELF-TAPPING SHEET METAL SCREW
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
THK	THICK
TOC	TOP OF COLUMN
TOS	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WH	WATER HEATER
WIC	WOODWORK INSTITUTE OF CALIFORNIA
WND	WINDOW
W/O	WITHOUT
WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS

05720 RAILINGS AND HANDRAILS:
ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH, NO SHARP OR ABRASIVE CORNERS EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH.

DIVISION 8 - DOORS

08710 DOOR HARDWARE:
- IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. 11B-404.2.7 / 11B-309.4. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS CHAPTER 10, SECTION 1008.1.9 / 11B-404.2.7 AND 11B-309.4
- THRESHOLDS SHALL COMPLY WITH CBC SECTIONS 1008.1.7 AND 11B-404.2.5.
- FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS POLICY 99-08

08712 EXIT DEVICES: (WHERE APPLICABLE)
MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LB (22.2 N) FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, 5LBS MAX OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBF (66.72 N) PER CBC SECTIONS 1008.1.3 AND 11B-404.2.9.
HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MIN AND 48 INCHES MAX ABOVE THE FLOOR PER CBC SECTION 1008.1.9.2. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOOR SHALL OPERATE AS ABOVE IN EGRESS DIRECTION PER CBC SECTION 1008.1.2

PANIC HARDWARE SHALL NOT BE PROVIDED WITH "NIGHT LATCH" FUNCTION FOR ANY ACCESSIBLE DOORS OR GATES UNLESS THE FOLLOWING CONDITIONS ARE MET PER DSA INTERPRETATION 10-08 DSA/AC. SUCH CONDITIONS MUST BE CLEARLYDEMONSTRATED AND INDICATED IN THE SPECIFICATIONS:
- SUCH HARDWARE HAS A 'DOGGING' FEATURE.
- IT IS DOGGED DURING THE TIME THE FACILITY IS OPEN.
- SUCH 'DOGGING' OPERATION IS PERFORMED ONLY BY EMPLOYEES AS THEIR JOB FUNCTION (NON-PUBLIC USE).

DIVISION 9 - FINISHES

09650 RESILIENT FLOORING:
RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.

09680 CARPETING:
CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT, OR LEVEL-CUT/UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER CBC SECTION 11B-302.2.
CARPET EDGES SHALL COMPLY WITH CBC 11B-303.

DIVISION 10 - SPECIALTIES

10155 TOILET COMPARTMENTS: CBC SECTION 11B-604.8.1.2
TOILET STALLS FOR DISABLED PERSONS SHALL HAVE SLIDE BOLT DOOR LATCH, U-SHAPE OR WIRE PULLS BOTH SIDES OF THE DOOR AND SELF-CLOSING HINGES. DOORS HARDWARE SHALL BE MOUNTED AT 34" MIN TO 44" MAX ABOVE FINISHED FLOOR. DOORS AT FRONT ENTRY STALLS SHALL HAVE 32" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°. DOORS AT SIDE ENTRY STALLS SHALL HAVE 34" MINIMUM CLEAR WIDTH WHEN THE DOOR IS OPEN 90°.

10800 TOILET ACCESSORIES:
TOILET ACCESSORIES REQUIRED TO BE ACCESSIBLE SHALL BE MOUNTED AT HEIGHTS ACCORDING TO CBC SECTION 11B-213.3. THE GRAB BAR CAN NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET 11B-604.5 / 11B-604.8.1.5 / 11B-604.8.2.3. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL PROJECT MORE THAN THE GRAB BAR. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1 1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR. ACCESSORIES SURFACE MOUNTED ABOVE GRAB BAR WILL RESTRICT USABILITY.

DIVISION 15 - MECHANICAL

15400 PLUMBING FIXTURES:
ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF CBC SECTION 11B-213.2 / 11B-603.2. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO CBC TABLE 11B-604.9. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-213.2 / 11B-603.2.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

C-33467
REN 01-31-2015

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~04 11657~~
~~AC FLS SS~~
~~DATE JUL 2 7 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS

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△8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-0.1

WINDOW SCHEDULE

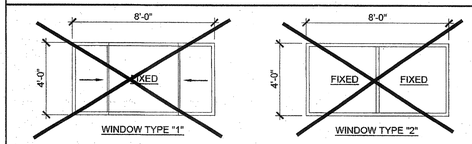
WINDOW NO.	QTY	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS	NOTES
~~A~~	~~1~~		~~8'-0"~~	~~4'-0"~~	~~XOX~~	~~ANOD~~	~~DP~~		
~~B~~	~~2~~		~~8'-0~~	~~4'-0~~	~~FIXED~~	~~FRW~~	~~FRG~~		~~45 MINUTE ASSEMBLY~~

WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
BRONZ: BRONZE ANODIZED ALUMINUM FRAME
PAINT: PAINTED FRAME
WF: 16GA WELDED FRAME
FRW: FIRE RATED WINDOW
FRAME: MIN 0.048" THICK WELDED FRAME
FRG: FIRE RATED GLAZING: 1/4" WIRED GLASS. LABELED TO MEET THE REQUIREMENTS FOR A 3/4 HOUR FIRE WINDOW ASSEMBLY PER CBC SECTION/TABLE 715.5

DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD, ALL OPERABLE SASH SHALL HAVE SCREENS. (U-FACTOR = .510 MAX, VT = 0.500 MIN., SHGC = .350 MAX, STC = 36 MIN.)

WINDOW TYPE



INTERNATIONAL WINDOW 6220 - 3/4" INSULATING GLASS UNIT PERFORMANCE
U-VALUE: 0.54
SHGC: 0.30

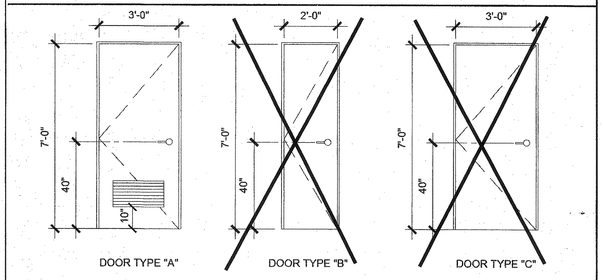
DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	WALL THICKNESS	NOTES*
1	3'-0"	7'-0"	A		HM	KD	HW - 1	4 7/8"	
2	3'-0"	7'-0"	A		HM	KD	HW - 2	4 7/8"	NO CLOSER
~~3~~	~~2'-8"~~	~~7'-0~~	~~B~~		~~HM~~	~~KD~~	~~HW - 3~~	~~4 1/8"~~	
~~4~~	~~3'-8"~~	~~7'-0"~~	~~C~~		~~HM~~	~~KD~~	~~HW - 4~~	~~5 1/4"~~	

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM: 18GA HOLLOW METAL
WF: 16GA WELDED FRAME
AL: ALUMINUM
SST: STAINLESS STEEL
KD: KNOCK DOWN FRAME
SCL: SOLID CORE WOOD LEGACY
HC: HOLLOW CORE WOOD
PT: PAINTED
*EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX

DOOR TYPES & NOTES



1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTERED AT 40" AFF. HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL TOOLS, KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER. CBC 1008.1.10
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPEC'S ON THIS SHEET AND CBC SECTIONS 11B-206.5, 11B-404.1 AND 1008.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 70°, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR
7. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING:
   - THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 5LBS PER THE 2013 CBC
   APPROVED BY AUTHORITY W/ JURISDICTION, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1008.1.10
8. THE FIRE PROTECTION FOR EXTERIOR WALL IS DETERMINED BASED UPON THE FIRE SEPARATION DISTANCE IN WHICH THE WALL IS LOCATED. SEE CBC TABLE 705.8 OR TABLE 602

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
GIRLS 101	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
BOYS 102	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
STAFF 103	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
STAFF 104	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
~~WORK ROOM 105~~	~~CARP~~	~~4" TS~~	~~TACK~~	~~TACK~~	~~TACK~~	~~TACK~~	~~GP~~	~~8'-0"~~	
~~PLUMBING CHASE~~									

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED) **2910 ARMSTRONG CLG TILES**

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.2 & 720.3. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (2x4)
☒ R-19 (2x6)
☐ R-30 (2x8)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-19

ROOF INSULATION (MIN.)
R-30

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2013 CBC. CARPET EDGE SHALL COMPLY WITH THE 2013 CBC
5. INTERIOR WALL AND CEILING FINISHES SHALL HAVE A MIN. CLASS 'C' RATING. FLAME SPREAD INDEX 76-200 & SMOKE DEVELOPED INDEX 0-450 PER 2013 CBC 803.

DOOR HARDWARE

BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-1

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
CLOSER	NORTON 8501 BFDA (OPTIONAL)	Finish 689	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

STAFF RESTROOM - EXTERIOR DOOR HW-2

LOCKSET	SCHLAGE ND85PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

~~CHASE EXTERIOR DOOR -~~ ~~EXTERIOR DOOR HW-3~~

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal

WORKROOM - EXTERIOR DOOR HW-4

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
CLOSER	NORTON 8501 BFDA	Finish 689	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 35T
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SCHEDULES

LICENSED ARCHITECT — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 119782 AC FLS SS DATE JUL 2 7 2015~~

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAC
DATE JUL - 8 2015

REVISIONS
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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

P.C. SHEET NUMBER
A-0.2

TYPE D-1, A-1, A-2

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 06/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 5)
Project Name: # 12'x40' SCI RESTROOM PC TYPE D-1, A-1, A-2	Date Prepared: 12/18/14

Climate Zone:	Conditioned Floor Area : —			
	Unconditioned Floor Area : 480			
General Information				
Building Type: ☐ Schools	☒ Nonresidential / ☒ Relocatable Public Schools	☐ High-Rise Residential / ☐ Conditioned Spaces	☐ Hotel/Motel / ☒ Unconditioned Spaces	
Phase of Construction:	☒ New Construction	☐ Addition	☐ Alteration	
Method of Compliance:	☒ Complete Building	☐ Area Category	☐ Tailored	

LIGHTING COMPLIANCE DOCUMENTS (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
X		NRCC-LIT-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
X		NRCC-LIT-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
X		NRCC-LIT-03-E	Indoor Lighting Power Allowance
	X	NRCC-LIT-04-E	Tailored Method Worksheets
	X	NRCC-LIT-05-E	Line Voltage Track Lighting Worksheets

Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4	+		Installed Lighting NRCC-LTI-01-E, page 4	+	372
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	Ø
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=		Adjusted Installed Lighting Power (row 1 minus row 3)	=	372

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

Lydia Barron

Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California Department of General Services, ou=Division of the State Architect, ou=www.verisign.com/repository/CPS Incorp. by Ref.,LIAB.LTD(c)99, title=Architectural Associate, cn=Lydia Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.06.30 09:46:31 -07'00'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 37
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY COMPLIANCE FORMS

LICENSED ARCHITECT — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116517 AC ✓ FLS SS DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC — FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS

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7
8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-0.5A

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: 12x40 SCI RESTROOM PC	Date Prepared: 12/18/14

The NRCC-LTI-02-E shall be used to document all mand… …nd prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
✓		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
✓		Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
✓		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
✓		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
✓		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
	✓	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
✓		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
	✓	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
	✓	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
✓		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name:	Date Prepared:

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
[illegible] Room	OCCUPANCY SENSOR		✓		✓									☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐
														☐	☐

Control Credit PAGE TOTAL (Sum of Column M): 0

IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):

Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 08/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name:	Date Prepared: 12/18/14

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company:	Signature Date: 12/18/14
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: SILVER CREEK	Responsible Designer Signature:
Company:	Date Signed: 12/18/14
Address:	License: 855259
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 08/14)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 9)
Project Name: 12'x40' SCI RESTROOM PC	Date Prepared: 12/18/14

Project Address:	Climate Zone: ALL	Conditioned Floor Area:
		Unconditioned Floor Area: 480

General Information

Building Type: ☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
☐ Schools ☑ Relocatable Public Schools ☐ Conditioned Spaces ☑ Unconditioned Spaces
Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

A. Electrical Service Metering

☑ Each newly installed electrical service (in both existing and newly constructed buildings) is required to be metered, as set out in Table 130.5-A, which is reproduced below.

☐ Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Field Inspector	
A	B	C	D	E	F	G	
Designation/location in building/description	kVA	Instantaneous (at the time) kW demand	Historical peak demand (kW)	Resettable kWh	kWh per rate period	Pass	Fail

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Project Name:	Date Prepared:

N/A BY SITE OWNER

		☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐

Table 130.5-A - MINIMUM REQUIREMENTS FOR METERING OF ELECTRICAL LOAD

Meter Rating (kVA)	50 kVA or less	More than 50kVA and less than or equal to 250 kVA	More than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Instantaneous (at the time) kW demand	▨	▨	▨	▨
Historical peak demand (kW)	Not required	Not required	▨	▨
Resettable kWh	▨	▨	▨	▨
kWh per rate period	Not required	Not required	Not required	▨

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B. Disaggregation of Electrical Circuits

☐ Each newly installed switchboard, panel, and motor control center (in both existing and newly constructed buildings) is required to be disaggregated according to the requirements of Table 130.5-B, shown on the next page.

☐ Individual branch circuits, taps or disconnects that require overcurrent protection devices rated 60A or greater are exempt.

☐ As an alternative, current transformers can be added for individual branch circuits and loads throughout the building, and a permanent measurement system can be installed. In this case, disaggregated wiring would not be required as long as the metering system allows the equivalent disaggregated measurements.

☐ Fill out a separate line for each switchboard, motor control center, panelboard and subpanel.

Switchboard, motor control center, panelboard or subpanel	Electrical Service that supplies that switchboard or panel	Electrical Service Rating	Field Inspector Pass	Field Inspector Fail

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Project Name:	Date Prepared:

A	B	C	D	
Designation/location in building/description	Designation/location in building/description	kVA	☐	☐
IN EACH MODULE/BLDG	N/A – PER SITE DESIGN	<50	☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
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			☐	☐
			☐	☐

OR

Current transformers have been attached to individual branch circuits and loads throughout the building, and a permanent measurement system is installed that allows an equivalent degree of disaggregated measurement as required by the Standards. ☐ ☐

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B. Disaggregation of Electrical Circuits (continued)

Table 130.5-B - MINIMUM REQUIREMENTS FOR SEPARATION OF ELECTRICAL LOAD

Table 130.5 – B sets the upper limit on how many load(s) of each type can be supplied by each feeder. A feeder may not supply loads of more than one type unless the service is rated at 50 kVA or less. For instance, on the fifth row of the table, one feeder on a service >50 kVA could be used to supply all the plug loads on a floor of a building, provided that there are no areas in which more than 25kVA of plug load is supplied to a space less than 5000sf

Load Type	Services rated 50 kVA or less	Services rated more than 50kVA and less than or equal to 250 kVA	Services rated more than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Lighting including exit and egress lighting and exterior lighting	Not required	All lighting in aggregate	All lighting disaggregated by floor, type or area	All lighting disaggregated by floor, type or area
HVAC systems and components including chillers, fans, heaters, furnaces, package units, cooling towers, and circulation pumps associated with HVAC	Not required	All HVAC in aggregate	All HVAC in aggregate and each HVAC load rated at least 50 kVA	All HVAC in aggregate and each HVAC load rated at least 50kVA
Domestic and service water system pumps and related systems and components	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Plug load including appliances rated less than 25 kVA	Not required	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug loads separated by floor, type or area. All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf
Elevators, escalators, moving walks, and transit systems	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Other individual non-HVAC loads or appliances rated 25kVA or greater	Not required	All	Each	Each
Industrial and commercial load centers 25 kVA or greater including theatrical lighting installations and commercial kitchens	Not required	All	Each	Each
Renewable power source (net or total)	Each group	Each group	Each group	Each group
Loads associated with renewable power source	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Charging stations for electric vehicles	All loads in aggregate	All loads in aggregate	All loads in aggregate	All loads in aggregate

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C. Voltage Drop

☐ Attach voltage drop worksheet to this form,

☐ Field Inspector has discretion to approve the worksheets; the tables shown below in this section are advisory only

☐ Feeder conductors and branch circuits that are dedicated to emergency services are exempt from these requirements.

☐ An advisory table of typical power factors is shown below

	Field Inspector Pass	Field Inspector Fail
Feeders. Feeder conductors shall be sized for a maximum voltage drop of 2 percent at design load.	☐	☐
Branch Circuits. Branch circuit conductors shall be sized for a maximum voltage drop of 3 percent at design load.	☐	☐

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Compliance Manual, Chapter 8, Table 8 2: Typical Power Factors for Voltage Drop Calculations

Load Type	Default Power Factor at 120 volts	Default Power Factor at 277 volts	Clarifying Notes
Fluorescent lighting	0.95	0.95	
Compact fluorescent lighting	0.9 (hardwired) 0.5 (GU-24)	0.9 (hardwired) 0.3 (GU-24)	NPF magnetic ballasts use GU-24 values
LED lighting	0.7	0.5	May be higher if specifications call for high power factor drivers
Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

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D. Circuit Controls for 120-Volt Receptacles

☐ Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.

☐ In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.

☐ Receptacles that are only for the following purposes are exempt:

-Receptacles specifically for refrigerators and water dispensers in kitchenettes.
-Receptacles located a minimum of six feet above the floor that are specifically for clocks.
-Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

	Field Inspector Pass	Field Inspector Fail
1. At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: • Private offices, open office areas • Receptions and lobbies • Conference rooms • Kitchenettes in office spaces • Copy room		
2. Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space).		
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.		
4. For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.1(a)130.5(d) 1, 2, and 3.		
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles that comply with Section 130.5(d)1, 2, and 3 (see numbers 1,2 and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.		
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.		

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Project Name:	Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company:	Signature Date: 12/18/14
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: SILVER CREEK	Responsible Designer Signature:
Company: SILVER CREEK	Date Signed: 12/18/14
Address:	License: 855259
City/State/Zip:	Phone:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 257
DATE 05/06/2019

Lydia Barron
Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California Department of General Services, ou=Division of the State Architect, ou=www.verisign.com/repository/CPS Incorp. by Ref.,LIAB.LTD(c)99, title=Architectural Associate, cn=Lydia Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.06.30 09:49:52 -07'00'

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY COMPLIANCE FORMS

C-33467
REN 01-31-2015

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~04 116[illegible]7~~
~~AC ✓ FLS [illegible] SS [illegible]~~
~~DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC — FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS

1	
2	
3	
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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER
A-0.5B

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 08:54, Thu, Feb 12, 2015 — Page 1 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

A. GENERAL INFORMATION

01	Project Address	WORST CASE - ZONE 14	21	Compliance Software	CBECC-Com 2013-3a (687)
02	City	- specify -	22	Compliance Manager Version	BEMCmpMgr 2013-3a (687)
03	Zip code		23	Rule Set Filename	CA 2013 Nonresidential, Vers. 2.0 (CEC 2013 NonRes.bin)
04	Climate Zone	ClimateZone14	24	Building Type	Nonresidential
05	Building Front Orientation	0	25	Construction Type	
06	Number of Above Grade Stories	1	26	North Wall Area (ft2)	138
07	Number of Below Grade Stories	0	27	East Wall Area (FT2)	475
08	Number of Dwelling Units	0	28	South Wall Area (ft2)	147
09	Total Conditioned Floor Area (ft2)	480	29	West Wall Area (ft2)	475
10	Total Unconditioned Floor Area (ft2)		30	Total Exterior Wall Area (ft2)	1,235
11	Addition Conditioned Floor Area (ft2)		31	North Glazing Area (ft2) / Glazing Ratio	0 / 0%
12	Addition Unconditioned Floor Area(ft2)		32	East Glazing Area (ft2) / Glazing Ratio	32 / 7%
13	Number of Thermal Zones	1	33	South Glazing Area (ft2) / Glazing Ratio	0 / 0%
14	Number of Thermal Zones (conditioned)	1	34	West Glazing Area (ft2) / Glazing Ratio	0 / 0%
15	Number of Air Systems	1	35	Total Glazing Area (ft2) /Glazing Ratio	32 / 3%
16	Number of Zonal Systems	0	36	Roof Area (ft2)	480
17	Number of Terminal Units	0	37	Skylight Area (ft2) / Skylight-Roof-Ratio	0 / 0%
18			38		
19			39		
20			40		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — Report Version: PRF01-06032014-687 — Report Generated at: 2015-02-12T08:55:12

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Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

B. COMPLIANCE RESULTS

01	BUILDING COMPLIES
02	Special Features are Required -TBD
03	HERS Verification is Required - TBD

ANNUAL TDV ENERGY USE SUMMARY (kBtu/ft2/yr)

	04	05	06	07
Energy Component	Standard Design	Proposed Design	Compliance Margin	Percent Better than Standard*
Space Heating	69.7	48.3	21.4	30.7%
Space Cooling	230.6	226.1	4.6	2.0%
Indoor Fans	164.6	167.5	-2.9	-1.8%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	--	--	--	--
Lighting	60.6	29.3	31.3	51.7%
COMPLIANCE TOTAL	525.5	471.2	54.3	10.3%
Receptacle	66.6	66.6		0.0%
Process	--	--		--
Process Lighting	--	--		--
TOTAL	592.1	537.8		9.2%

C. OCCUPANCY SUMMARY INFORMATION -

01	02	03	04	05	06	07	08
				Allowed (Baseline) Lighting Power			
					Additional (Custom) Allowances		
Occupancy Type	Floor Area	Installed Lighting Power	Lighting Control Credits	General Lighting Power Allowance	Area Category	Tailored Method	Total Allowed Lighting Power
	(ft2)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)
Classrooms, Lecture, Training, Vocational Areas	480	372	93	576			576

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Project Name: 12x40 Classroom — Calculation Date/Time: 08:54, Thu, Feb 12, 2015 — Page 3 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

D. ENVELOPE SUMMARY INFORMATION

01	02	03	04	05	06	07	08
			Assembly Layers				
Surface Name	Surface Type	U-Factor / F-Factor / C-Factor		Framing Type	Framing Spacing	R-value	Certified Cool Roof
T1-11 WD STD - R19	ExteriorWall	U-0.06	Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. Composite Framing Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	Wood	Wall16inOC	R-0.6 R-0.01 R-19 Cavity R-0.45 R-1.26	
STANDING SEAM ROOF - R30	Roof	U-0.06	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. Composite Framing Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	Metal	Roof24inOC	R-0 R-0.03 R-0.94 R-30 Cavity R-0.92 R-1.26	
WD FLOOR - R19	ExteriorFloor	U-0.07	Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite Framing Plywood - 1 in. Carpet - 3/4 in.	Metal	Floor24inOC	R-0.92 R-19 Cavity R-1.25 R-2.38	

E. FENESTRATION SUMMARY INFORMATION

01	02	03	04	05	06	07	08
Name	Fenestration Type	Certification Method	Assembly Method	Frame Type	U-value	SHGC	VT
SCI - IWC 6200 - SLIDER - SB60 / CLR	Sliding	NFRCRated	Manufactured	- specify -	0.51	0.35	0.63

F. MECHANICAL SYSTEM SUMMARY INFORMATION

01	02	03	04				05						
			Cooling				Heating						
Equipment Name	Equipment Type	Qty	Type	SEER	EER	Rated Output kBtuh	Type	AFUE	HSPF	Thermal Eff.	Rated Output kBtuh	Supplemental Heat Source	Supplemental Rated Output kBtuh
AirSystem 1	SZHP	1	DirectExpansion	14.5	12.0	35	HeatPump				33.6		

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Project Name: 12x40 Classroom — Calculation Date/Time: 08:54, Thu, Feb 12, 2015 — Page 4 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

G. MECHANICAL SYSTEM ECONOMIZER AND FAN SUMMARY INFORMATION

01	02	03	04				05			
		Outside Air	Supply Fan				Return Fan			
Equipment Name	EconomizerType	CFM	CFM	HP	BHP	Control	CFM	HP	BHP	Control
AirSystem 1	NoEconomizer	360	1200.0	0.75	0.75	ConstantVolume				

H. CHILLER SUMMARY INFORMATION

Not Applicable

I. COOLING TOWER SUMMARY INFORMATION

Not Applicable

J. BOILER SUMMARY INFORMATION

Not Applicable

K. CENTRAL MECHANICAL SYSTEM - PUMP SUMMARY INFORMATION

Not Applicable

L. TERMINAL UNIT SUMMARY INFORMATION

Not Applicable

L-1. ZONAL SYSTEM SUMMARY INFORMATION

Not Applicable

M-1., DHW SUMMARY INFORMATION: FLUID SYSTEMS

Not Applicable

M-2., DHW SUMMARY INFORMATION: RECIRCULATION DHW SYSTEMS

Not Applicable

N. EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

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Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

Not Applicable.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — Report Version: PRF01-06032014-687 — Report Generated at: 2015-02-12T08:55:12

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 08:54, Thu, Feb 12, 2015 — Page 6 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WD-RF-ALL.cibd

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:Ryan McIntosh	Documentation Author Signature:
Company:SILVER CREEK	Signature Date: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	CEA Identification (If applicable):
City/State/Zip:	Phone:951-943-5393

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Building Owner's Name:SILVER CREEK	Building Owner's Signature:
Address:2830 Barrett Ave - Perris CA 92571	Date Signed: 2/12/15
City/State/Zip:	Phone:951-943-5393
Responsible Designer Name:SILVER CREEK	ResponsibleDesigner Signature:
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393
Responsible Lighting Designer Name:SILVER CREEK	Responsible Lighting Designer Signature:
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393
Responsible Mechanical Designer Name:SILVER CREEK	Responsible Mechanical Designer Signature:
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — Report Version: PRF01-06032014-687 — Report Generated at: 2015-02-12T08:55:12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 27
DATE 05/06/2019

Lydia Barron

Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California Department of General Services, ou=Division of the State Architect, ou=www.verisign.com/repository/CPS Incorp. by Ref.,LIAB.LTD(c)99, title=Architectural Associate, cn=Lydia Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.06.30 09:53:48 -07'00'

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY CALC'S PRF FORMS ZONE 14 WORST CASE

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 118517
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC — FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS

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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-0.5C

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 1 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

A. GENERAL INFORMATION					
01	Project Address	WORST CASE - ZONE 15	21	Compliance Software	CBECC-Com 2013-3a (687)
02	City	- specify -	22	Compliance Manager Version	BEMCmpMgr 2013-3a (687)
03	Zip code		23	Rule Set Filename	CA 2013 Nonresidential, Vers. 2.0 (CEC 2013 NonRes.bin)
04	Climate Zone	ClimateZone15	24	Building Type	Nonresidential
05	Building Front Orientation	60	25	Construction Type	
06	Number of Above Grade Stories	1	26	North Wall Area (ft2)	475
07	Number of Below Grade Stories	0	27	East Wall Area (FT2)	138
08	Number of Dwelling Units	0	28	South Wall Area (ft2)	475
09	Total Conditioned Floor Area (ft2)	480	29	West Wall Area (ft2)	147
10	Total Unconditioned Floor Area (ft2)		30	Total Exterior Wall Area (ft2)	1,235
11	Addition Conditioned Floor Area (ft2)		31	North Glazing Area (ft2) / Glazing Ratio	0 / 0%
12	Addition Unconditioned Floor Area(ft2)		32	East Glazing Area (ft2) / Glazing Ratio	0 / 0%
13	Number of Thermal Zones	1	33	South Glazing Area (ft2) / Glazing Ratio	32 / 7%
14	Number of Thermal Zones (conditioned)	1	34	West Glazing Area (ft2) / Glazing Ratio	0 / 0%
15	Number of Air Systems	1	35	Total Glazing Area (ft2) /Glazing Ratio	32 / 3%
16	Number of Zonal Systems	0	36	Roof Area (ft2)	480
17	Number of Terminal Units	0	37	Skylight Area (ft2) / Skylight-Roof-Ratio	0 / 0%
18			38		
19			39		
20			40		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 2 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

B. COMPLIANCE RESULTS				
01	BUILDING COMPLIES			
02	Special Features are Required -TBD			
03	HERS Verification is Required - TBD			
ANNUAL TDV ENERGY USE SUMMARY (kBtu/ft2/yr)				
	04	05	06	07
Energy Component	Standard Design	Proposed Design	Compliance Margin	Percent Better than Standard*
Space Heating	33.4	22.5	10.9	32.6%
Space Cooling	297.8	285.3	12.5	4.2%
Indoor Fans	155.4	165.6	-10.2	-6.6%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	--	--	--	--
Lighting	60.6	29.4	31.2	51.5%
COMPLIANCE TOTAL	547.2	502.8	44.4	8.1%
Receptacle	66.6	66.6		0.0%
Process	--	--		--
Process Lighting	--	--		--
TOTAL	613.8	569.4		7.2%

C. OCCUPANCY SUMMARY INFORMATION -							
01	02	03	04	05	06	07	08
				Allowed (Baseline) Lighting Power			
					Additional (Custom) Allowances		
Occupancy Type	Floor Area	Installed Lighting Power	Lighting Control Credits	General Lighting Power Allowance	Area Category	Tailored Method	Total Allowed Lighting Power
	(ft2)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)
Classrooms, Lecture, Training, Vocational Areas	480	372	93	576			576

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 3 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

D. ENVELOPE SUMMARY INFORMATION							
01	02	03	04	05	06	07	08
			Assembly Layers				
Surface Name	Surface Type	U-Factor / F-Factor / C-Factor		Framing Type	Framing Spacing	R-value	Certified Cool Roof
T11 - WD STD - R19	ExteriorWall	U-0.06	Wood siding - 1/2 in Vapor seal - plastic film - 1/16 in. Composite Framing Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	Wood	Wall16inOC	R-0.6 R-0.01 R-19 Cavity R-0.45 R-1.26	
STANDING SEAM ROOF - R30	Roof	U-0.06	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. Composite Framing Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	Metal	Roof24inOC	R-0 R-0.03 R-0.94 R-30 Cavity R-0.92 R-1.26	
WD FLOOR - R19	ExteriorFloor	U-0.07	Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite Framing Plywood - 1 in. Carpet - 3/4 in.	Metal	Floor24inOC	R-0.92 R-19 Cavity R-1.25 R-2.38	

E. FENESTRATION SUMMARY INFORMATION							
01	02	03	04	05	06	07	08
Name	Fenestration Type	Certification Method	Assembly Method	Frame Type	U-value	SHGC	VT
SCI - IWC 6200 - SLIDER - SB60 / CLR	Sliding	NFRCRated	Manufactured	- specify -	0.51	0.35	0.63

F. MECHANICAL SYSTEM SUMMARY INFORMATION														
01	02	03	04				05							
			Cooling				Heating							
Equipment Name	Equipment Type	Qty	Type	SEER	EER	Rated Output kBtuh	Type	AFUE	HSPF	Thermal Eff.	Rated Output kBtuh	Supplemental Heat Source	Supplemental Rated Output kBtuh
AirSystem 1	SZHP	1	DirectExpansion	14.5	12.0	35	HeatPump				33.5		

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 4 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

G. MECHANICAL SYSTEM ECONOMIZER AND FAN SUMMARY INFORMATION										
01	02	03	04				05			
		Outside Air	Supply Fan				Return Fan			
Equipment Name	EconomizerType	CFM	CFM	HP	BHP	Control	CFM	HP	BHP	Control
AirSystem 1	NoEconomizer	360	1200.0	0.75	0.75	ConstantVolume				

H. CHILLER SUMMARY INFORMATION
Not Applicable

I. COOLING TOWER SUMMARY INFORMATION
Not Applicable

J. BOILER SUMMARY INFORMATION
Not Applicable

K. CENTRAL MECHANICAL SYSTEM - PUMP SUMMARY INFORMATION
Not Applicable

L. TERMINAL UNIT SUMMARY INFORMATION
Not Applicable

L-1. ZONAL SYSTEM SUMMARY INFORMATION
Not Applicable

M-1.. DHW SUMMARY INFORMATION: FLUID SYSTEMS
Not Applicable

M-2.. DHW SUMMARY INFORMATION: RECIRCULATION DHW SYSTEMS
Not Applicable

N. EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 5 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

Not Applicable.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-01-E

Project Name: 12x40 Classroom
Calculation Date/Time: 09:07, Thu, Feb 12, 2015
Page 6 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC
Input File Name:PC-12x40-WD-RF-ALL.cibd

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:Ryan McIntosh	Documentation Author Signature:
Company:SILVER CREEK	Signature Date: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	CEA Identification (If applicable):
City/State/Zip:	Phone:951-943-5393

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Building Owner's Name:SILVER CREEK	Building Owner's Signature:
Address:2830 Barrett Ave - Perris CA 92571	Date Signed: 2/12/15
City/State/Zip:	Phone:951-943-5393
Responsible Designer Name:SILVER CREEK	ResponsibleDesigner Signature:
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License: [illegible]
City/State/Zip:	Phone:951-943-5393
Responsible Lighting Designer Name:SILVER CREEK	Responsible Lighting Designer Signature:
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License: [illegible]
City/State/Zip:	Phone:951-943-5393
Responsible Mechanical Designer Name:SILVER CREEK	Responsible Mechanical Designer Signature
Company:SILVER CREEK	Date Signed: 2/12/15
Address:2830 Barrett Ave - Perris CA 92571	License: [illegible]
City/State/Zip:	Phone:951-943-5393

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
Report Version: PRF01-06032014-687
Report Generated at: 2015-02-12T09:08:11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 27
DATE 05/06/2019

Lydia Barron
Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California Department of General Services, ou=Division of the State Architect, ou=www.verisign.com/repository/CPS Incorp. by Ref.,LIAB.LTD(c)99, title=Architectural Associate, cn=Lydia Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.06.30 09:58:24 -07'00'

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY CALC'S PRF FORMS ZONE 15 WORST CASE

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116517
ACS ___ FLS ___ SS ___
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ___ FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS

1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

P.C. SHEET NUMBER

A-0.5D

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:00, Thu, Feb 12, 2015 — Page 1 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

A. GENERAL INFORMATION					
01	Project Address	WORST CASE - ZONE 16	21	Compliance Software	CBECC-Com 2013.0a (667)
02	City	- specify -	22	Compliance Manager Version	BEScheckpl 2013.0a (667)
03	Zip code		23	Role Set Filename	CA 2013 Nonresidential, Vers 2.0 (CEC 2013 Non/Res.tdv)
04	Climate Zone	ClimateZone16	24	Building Type	Nonresidential
05	Building Front Orientation	360	25	Construction Type	
06	Number of Above Grade Stories	1	26	North Wall Area (ft2)	475
07	Number of Below Grade Stories	0	27	East Wall Area (ft2)	147
08	Number of Dwelling Units	0	28	South Wall Area (ft2)	475
09	Total Conditioned Floor Area (ft2)	480	29	West Wall Area (ft2)	138
10	Total Unconditioned Floor Area (ft2)		30	Total Exterior Wall Area (ft2)	1,235
11	Addition Conditioned Floor Area (ft2)		31	North Glazing Area (ft2) / Glazing Ratio	32 / 7%
12	Addition Unconditioned Floor Area(ft2)		32	East Glazing Area (ft2) / Glazing Ratio	0 / 0%
13	Number of Thermal Zones	1	33	South Glazing Area (ft2) / Glazing Ratio	0 / 0%
14	Number of Thermal Zones (conditioned)	1	34	West Glazing Area (ft2) / Glazing Ratio	0 / 0%
15	Number of Air Systems	1	35	Total Glazing Area (ft2) /Glazing Ratio	32 / 3%
16	Number of Zonal Systems	0	36	Roof Area (ft2)	480
17	Number of Terminal Units	0	37	Skylight Area (ft2) / Skylight-Roof-Ratio	0 / 0%
18			38		
19			39		
20			40		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:00, Thu, Feb 12, 2015 — Page 2 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

B. COMPLIANCE RESULTS				
01	BUILDING COMPLIES			
02	Special Features are Required -TBD			
03	HERS Verification is Required - TBD			
	ANNUAL TDV ENERGY USE SUMMARY (kBtu/ft2/yr)			
	04	05	06	07
Energy Component	Standard Design	Proposed Design	Compliance Margin	Percent Better than Standard*
Space Heating	266.0	205.3	60.7	22.8%
Space Cooling	105.1	103.5	1.6	1.5%
Indoor Fans	170.8	181.0	-10.4	-6.1%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	--	--	--	--
Lighting	60.8	29.4	31.3	51.5%
COMPLIANCE TOTAL	602.3	519.2	83.1	13.8%
Receptacle	95.8	95.8		0.0%
Process	--	--		--
Process Lighting	--	--		--
TOTAL	698.1	615.0		12.4%

C. OCCUPANCY SUMMARY INFORMATION -							
01	02	03	04	06	08	07	08
					Allowed (Baseline) Lighting Power		
Occupancy Type	Floor Area	Installed Lighting Power	Lighting Control Credits	General Lighting Power Allowance	Area Category	Additional (Custom) Allowances Tailored Method	Total Allowed Lighting Power
	(ft2)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)	(Watts)
Classroom, Lecture, Training, Vocational Areas	480	372	93	576			576

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:09, Thu, Feb 12, 2015 — Page 3 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

D. ENVELOPE SUMMARY INFORMATION							
01	02	03	04		05	06	07	08
				Assembly Layers				
Surface Name	Surface Type	U-Factor / F-Factor / C-Factor		Framing Type	Framing Spacing	R-value	Continuous Roof
T111 WO SIDI - R19	Exterior Wall	U-0.06	Wood siding - 1/2 in. Vapor seal - plastic film - 1/96 in. Gypsum Board - 1/2 in. Composite Board - 1/2 in. Acoustic Tile - 1/2 in.	Wood	Wall16inOC	R-0.3 R-0.68 R-19 Cavity R-0.45 R-1.26	
STANDING SEAM ROOF - R30	Roof	U-0.06	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. Composite Framing Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	Metal	RoofSHSOC	R-0 R-0.03 R-0.94 R-30 Cavity R-0.92 R-1.39	
WO FLOOR - R19	Exterior Floor	U-0.07	Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite Framing Plywood - 1 in. Carpet - 3/4 in.	Metal	Floor24inOC	R-0.92 R-19 Cavity R-1.25 R-2.38	

E. FENESTRATION SUMMARY INFORMATION							
01	02	03	04	05	06	07	08
Name	Penestration Type	Certification Method	Assembly Method	Frame Type	U-value	SHGC	VT
SCI - WO 6850 - SLIDER - 5960/ CLR	Sliding	NFRCRated	Manufactured	- specify -	0.81	0.39	0.63

F. MECHANICAL SYSTEM SUMMARY INFORMATION												
01	02	03	04					05				
			Cooling					Heating				
Equipment Name	Equipment Type	Qty	Type	SEER	EER	Rated Output kBtuh	Type	AFUE	HSPF	Thermal Eff.	Rated Output kBtuh	Supplemental Heat Source	Supplemental Rated Output kBtuh
AirSystem 1	SZHP	1	DirectEx panelss	14.5	12.0	35	HeatPump				33.5		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:09, Thu, Feb 12, 2015 — Page 4 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

G. MECHANICAL SYSTEM ECONOMIZER AND FAN SUMMARY INFORMATION										
01	02	03	04				05			
			Outside Air	Supply Fan			Return Fan			
Equipment Name	EconomizerType	CFM	CFM	HP	BHP	Control	CFM	HP	BHP	Control
AirSystem 1	NoEconomizer	360	12000.0	0.75	0.73	ConstantVolume				

H. CHILLER SUMMARY INFORMATION
Not Applicable

I. COOLING TOWER SUMMARY INFORMATION
Not Applicable

J. BOILER SUMMARY INFORMATION
Not Applicable

K. CENTRAL MECHANICAL SYSTEM - PUMP SUMMARY INFORMATION
Not Applicable

L. TERMINAL UNIT SUMMARY INFORMATION
Not Applicable

L1. ZONAL SYSTEM SUMMARY INFORMATION
Not Applicable

M-1. DHW SUMMARY INFORMATION: PLMB SYSTEMS
Not Applicable

M-2. DHW SUMMARY INFORMATION: RECIRCULATION DHW SYSTEMS
Not Applicable

N. EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:09, Thu, Feb 12, 2015 — Page 5 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

Not Applicable.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-01-E

Project Name: 12x40 Classroom — Calculation Date/Time: 09:09, Thu, Feb 12, 2015 — Page 6 of 6

Compliance Scope : New Complete Building including Envelope, Lighting and HVAC — Input File Name:PC-12x40-WO-RF-ALL.cibd

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I, I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:Ryan Mcintosh	Documentation Author Signature:
Company:SILVER CREEK	Signature Date:
Address:2830 Barrett Ave - Perris CA 92571	CEA Identification (if applicable):
City/State/Zip:	Phone:951-943-5393
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California: I, I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect. 2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work. 3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.	
Building Owner's Name:SILVER CREEK	Building Owner's Signature:
Address:2830 Barrett Ave - Perris CA 92571	Date Signed:
City/State/Zip:	Phone:951-943-5393
Responsible Designer Name:SILVER CREEK	Responsible Designer Signature:
Company:SILVER CREEK	Date Signed:
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393
Responsible Lighting Designer Name:SILVER CREEK	Responsible Lighting Designer Signature:
Company:SILVER CREEK	Date Signed:
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393
Responsible Mechanical Designer Name:SILVER CREEK	Responsible Mechanical Designer Signature:
Company:SILVER CREEK	Date Signed:
Address:2830 Barrett Ave - Perris CA 92571	License:
City/State/Zip:	Phone:951-943-5393

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY CALC'S PRF FORMS ZONE 16 WORST CASE

LICENSED ARCHITECT — LYDIA BARRON III — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 11[illegible]
AC. — FLS — SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC. — FLS — SS RAF
DATE JUL - 8 2015

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC 1 FLS 1 SS 31
DATE 05/06/2019

Lydia Barron

Digitally signed by Lydia Barron
DN: st=California, l=Sacramento, o=California Department of General Services, ou=Division of the State Architect, ou=www.reistipp.com/repository/CPS Incorp. by Ref.:LIAB.LTD/299, title=Architectural Associate, cn=Lydia Barron, email=lydia.barron@dgs.ca.gov
Date: 2015.06.30 10:00:52 -07'00'

REVISIONS

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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-0.5E

CLASSROOM/WORKROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - WALL MOUNTED HEAT PUMP - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	19
Floor (min. R value)	19
Roof (min. R value)	30
HVAC	-
Tonnage	3
Min. EER	9
Occupancy Sensor	YES
OCV	YES

CLASSROOM/WORKROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - ROOF MOUNTED HEAT PUMP - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	19
Floor (min. R value)	19
Roof (min. R value)	30
HVAC	-
Tonnage	3
Min. Seer	14
Occupancy Sensor	YES
OCV	YES

RESTROOM - 12'x40' BUILDING - WOOD STUDS - WOOD OR CONCRETE FLOOR - NO SPACE CONDITIONING SYSTEM - ANY ROOF TYPE

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	13
Floor (min. R value)	19
Roof (min. R value)	19
HVAC	-
Tonnage	NONE
Min. Seer	NONE
Occupancy Sensor	YES - ON/OFF ONLY
OCV	NO

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

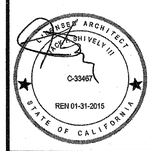
NOTE
Buildings utilizing an exterior wall constructed of steel stud framing shall have min. R4 continuous rigid insulation (EPS or EPX material) on the interior side of the wall.
Windows shall be NFC 6200 horizontal slider (SB 60 / Clr) or equal (Max). U-Factor - .510 (Max), SHGC = .350 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single foyer doors (Max), U-Factor = 0.500 (Max)
Buildings located in climate zone 16 shall utilize a 5kw electric resistance heating strip for supplemental heating.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES BY ZONE & CALGREEN SPEC'S



ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 357
DATE 05/06/2019

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE 2013 CBC
A SEPARATE PERMIT APPLICATION IS NOT REQUIRED FOR THIS DOCUMENT

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OFFICE OF REGULATION SERVICES
PC 04-114135
AC. FLS SS RAF
DATE JUL - 8 2015

REVISIONS
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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

P.C. SHEET NUMBER
A-0.7

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INIDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
   A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
   B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
   C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
   I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
   II. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
   III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOE EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 8. THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOE EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRI/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

ACOUSTICAL CONTROL

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. WHEN THE PC BUILDING IS PLACED DIRECTLY ADJACENT TO ANOTHER PC BUILDING, THE ADJOINING WALL SECTION FOR THE INTERIOR SOUND TRANSMISSION MUST MEET THE MINIMUM REQUIREMENTS OF STC RATING OF 40 PER SECTION 507.4.3, THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

BUILDING COMMISSIONING, BUILDINGS OVER 10,000 SF

BUILDINGS GREATER THAN 10,000 SQUARE FEET SHALL HAVE BUILDING COMMISSIONING COMPLIANCE PER TITLE 24, PART 6, SECTION 120.8 (a):

SUMMARY OF COMMISSIONING REQUIREMENTS
1. OWNERS OR OWNERS REPRESENTATIVE PROJECT REQUIREMENTS
2. BASIS OF DESIGN
3. DESIGN PHASE DESIGN REVIEW
4. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS
5. COMMISSIONING PLAN
6. FUNCTIONAL PERFORMANCE TESTING
7. DOCUMENTATION AND TRAINING; AND
8. COMMISSIONING REPORT

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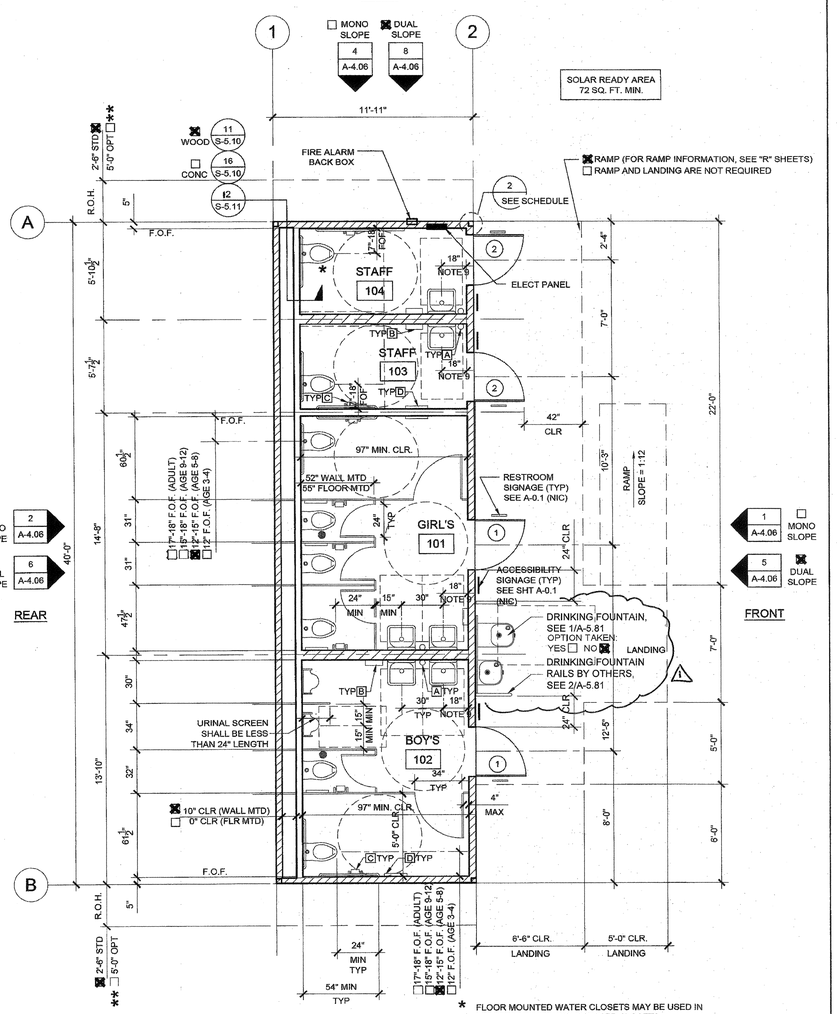
DATE 05/06/2019



* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

FIXTURE HEIGHTS AT BOYS & GIRLS ROOMS : KG

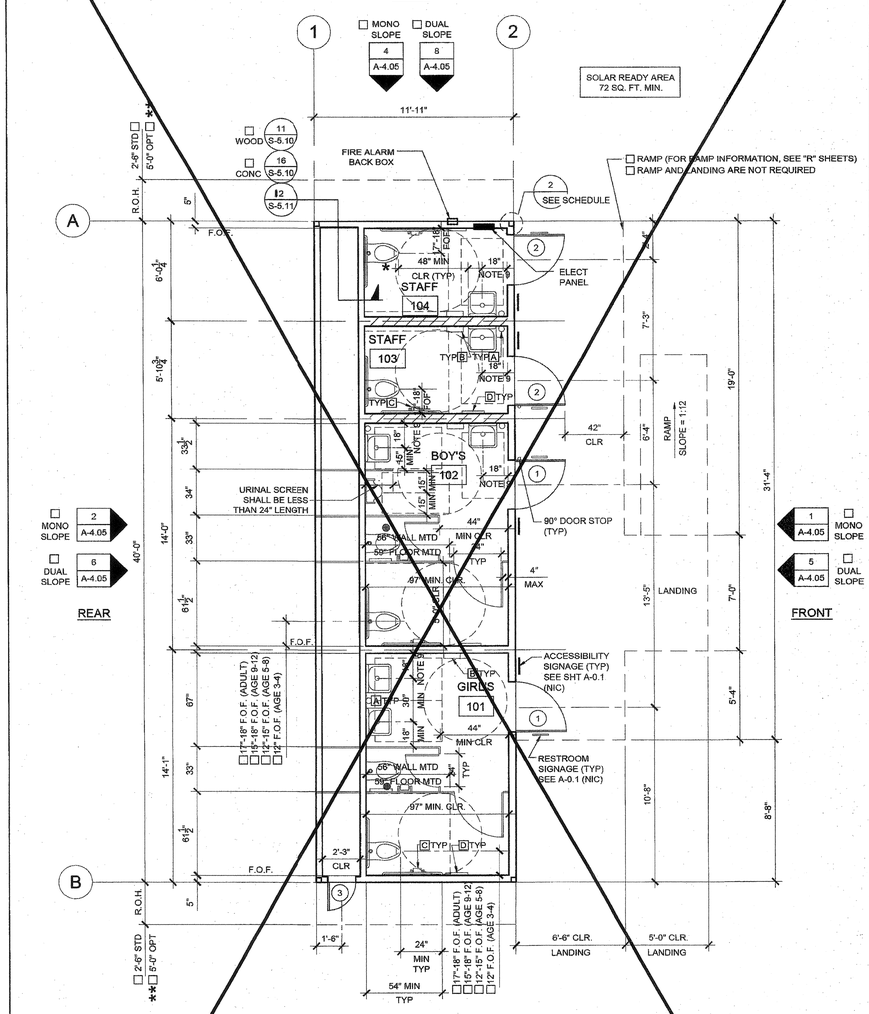
FIXTURE HEIGHTS AT STAFF ROOMS : ADULT

FIXTURES-BRAND-MODELS PER MANUFACTURER'S STD. PROVISIONS.

NOTE:
IF PAPER TOWEL DISPENSER IS PROVIDED AND NO WASTE BIN INSTALLED, PROVIDE A 12" DIA. CLR SPACE FOR FUTURE FREE STANDING TRASH BIN.

FLOOR PLAN - MODEL C-2

SCALE: 1/4" = 1' - 0" | 2



* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS

** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

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NOTE:
IF PAPER TOWEL DISPENSER IS PROVIDED AND NO WASTE BIN INSTALLED, PROVIDE A 12" DIA. CLR SPACE FOR FUTURE FREE STANDING TRASH BIN.

FLOOR PLAN - MODEL C-1

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

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (PER IR 16-1.13)

   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME, SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, Kzt = 1.0, 2013 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER S_s
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7.
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CBC 1004.3 & TITLE 19 C.C.R. (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK) (MODEL 'E' ONLY)
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS REL-101 & REL-102.
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBERS. PER IR-16-1.13
7. FLOOR MOUNTED TOILET FIXTURES MUST BE USED FOR KINDERSARTEN RESTROOM BUILDINGS.
8. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
9. REQUIRED LOCATION OF LAVATORY TO BE 19" MIN. FROM FACE OF FINISH OF WALL WHEN ACCESSORIES (PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, ETC.) HAVING A 4" PROJECTION ARE TO BE INSTALLED, SO AS NOT TO ENCROACH INTO THE 30" x 48" CLEAR SPACE.

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

SYMBOLS LEGEND

- 60" CIRCLE CLEAR SPACE
- 30"x48" CLEAR SPACE

WALL LEGEND

- NOMINAL 4" WALL STUD ☒
- NOMINAL 6" WALL STUD ☒
- NOMINAL 8" WALL STUD ☐
- (A) WINDOW PER SCHEDULE SHEET A-0.2
- (#) DOOR PER SCHEDULE SHEET A-0.2

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES

TOILET ACCESSORIES

- A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
- B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED, 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
- C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D TOILET SEAT DISPENSER: SURFACE MOUNTED

ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-2.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
12'x40' - MODEL C-1
12'x40' - MODEL C-2

LICENSED ARCHITECT
LEVELY III
C-33457
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 119617
ACS ___ FLS ___ SS BT
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL
PRE-CHECK (PC) DOCUMENT AS A PRIVATE PROJECT APPLICATION FOR CONSTRUCTION IN RECORDS
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC 12 FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS
1 ADDED DRINKING FOUNTAIN
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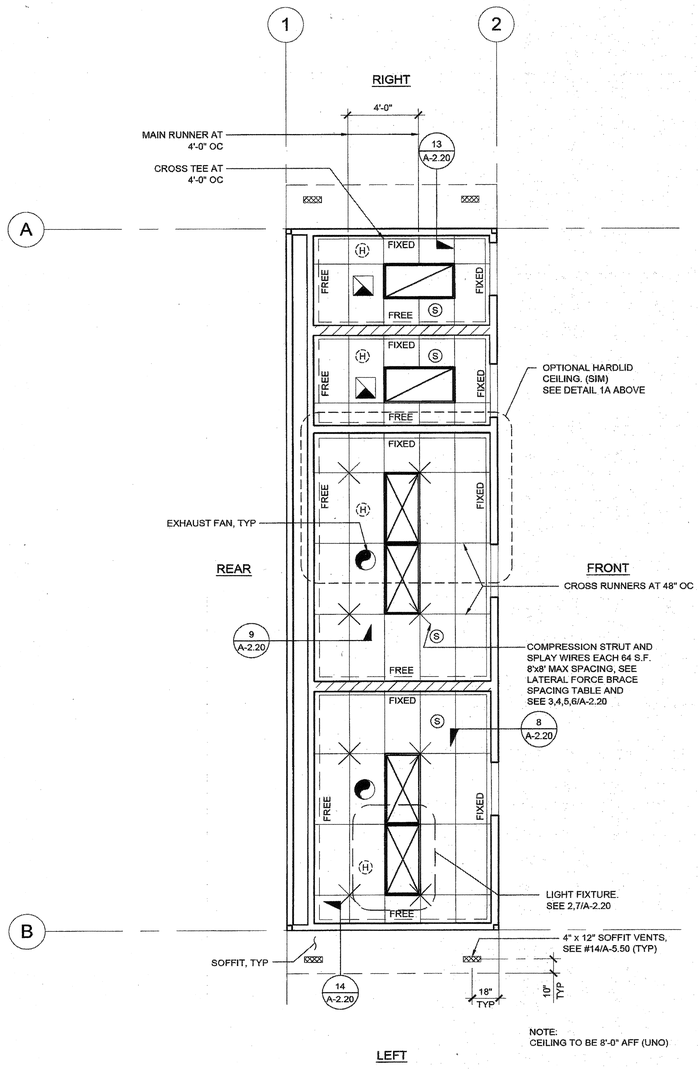
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

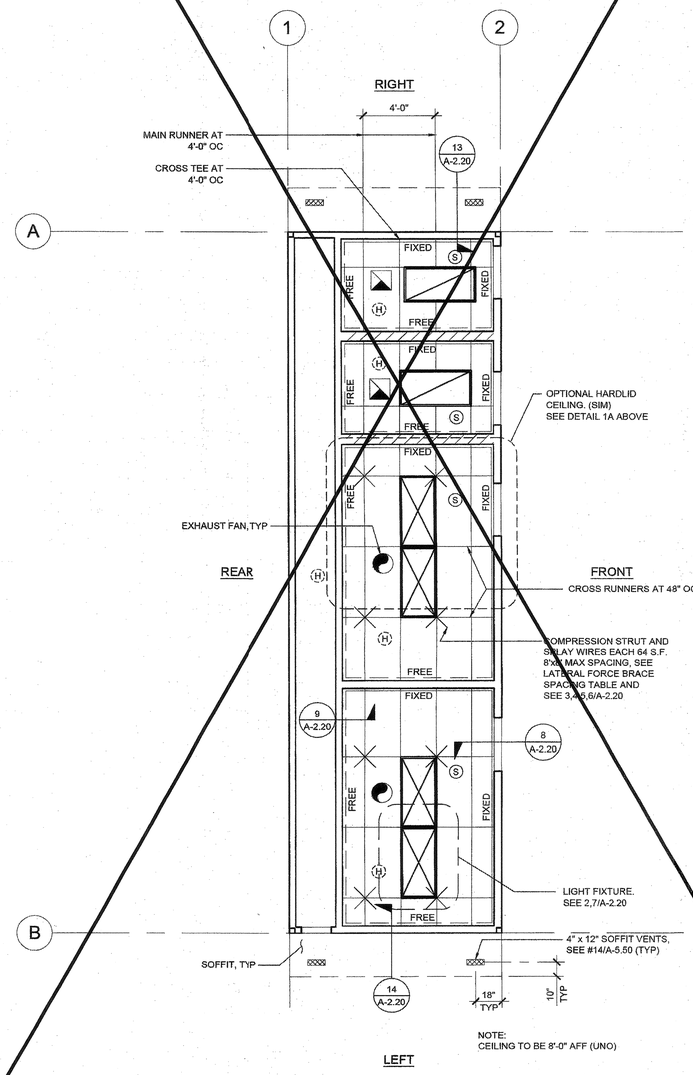
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER
A-1.03



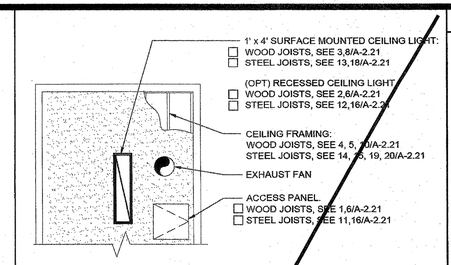
NOTE:
CEILING TO BE 8'-0" AFF (UNO)

REFLECTED CEILING PLAN - MODEL C-2 SCALE: 1/4" = 1'-0" 2



NOTE:
CEILING TO BE 8'-0" AFF (UNO)

REFLECTED CEILING PLAN - MODEL C-1 SCALE: 1/4" = 1'-0" 1



HARD LID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" 1A

LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ___ FLS ___ SS ___
DATE 05/06/2019

LATERAL FORCE BRACE SPACING

DESIGN SPECTRAL ACCELERATION PARAMETER (S_{DS})	BRACE ASSEMBLY SPACING
LESS THAN OR EQUAL TO 1.15	12' X 12' - FULL BUILDING HEIGHT
GREATER THAN 1.15 AND LESS THAN OR EQ. TO 1.73	8' X 12' - FOR z/h GREATER THAN 0.5 12'X12' FOR z/h LESS THAN OR EQUAL TO 0.5
GREATER THAN 1.73	8'X8' FOR z/h GREATER THAN 0.5 8'X12' FOR z/h LESS THAN OR EQUAL TO 0.5

z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING W/ RESPECT TO BASE.
h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
THERE SHALL BE A BRACE ASSEMBLY A DISTANCE NOT MORE THAN 1/2 OF THE ABOVE SPACING FROM EACH SURROUNDING WALL & EXPANSION JOINT.

T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8' WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN
12'x40' MODEL C-1 OR C-2

LICENSED ARCHITECT JAMES SHIVELY III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 119782
AC ___ FLS ___ SS ___
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE §1613 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ___ FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS

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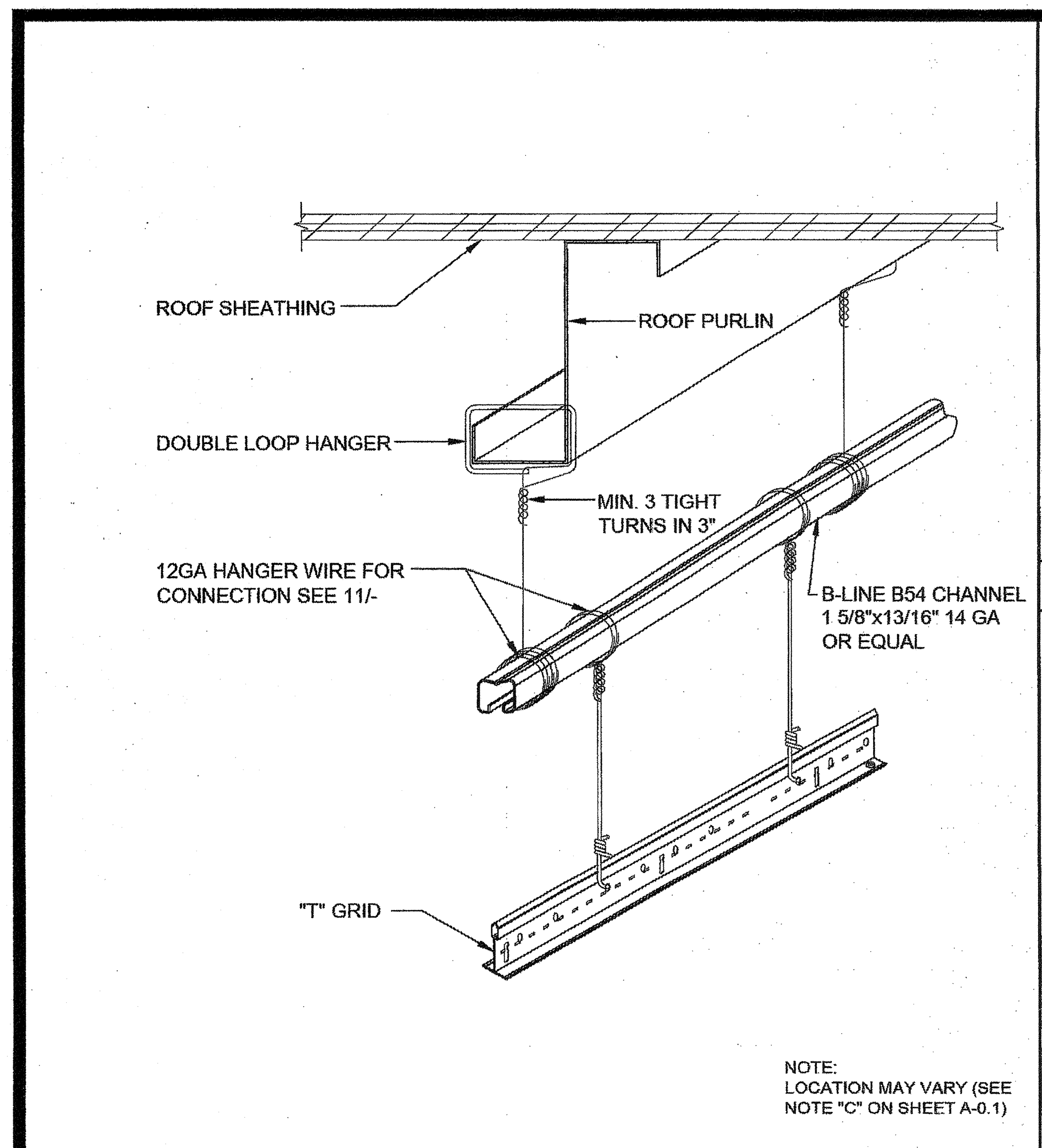
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

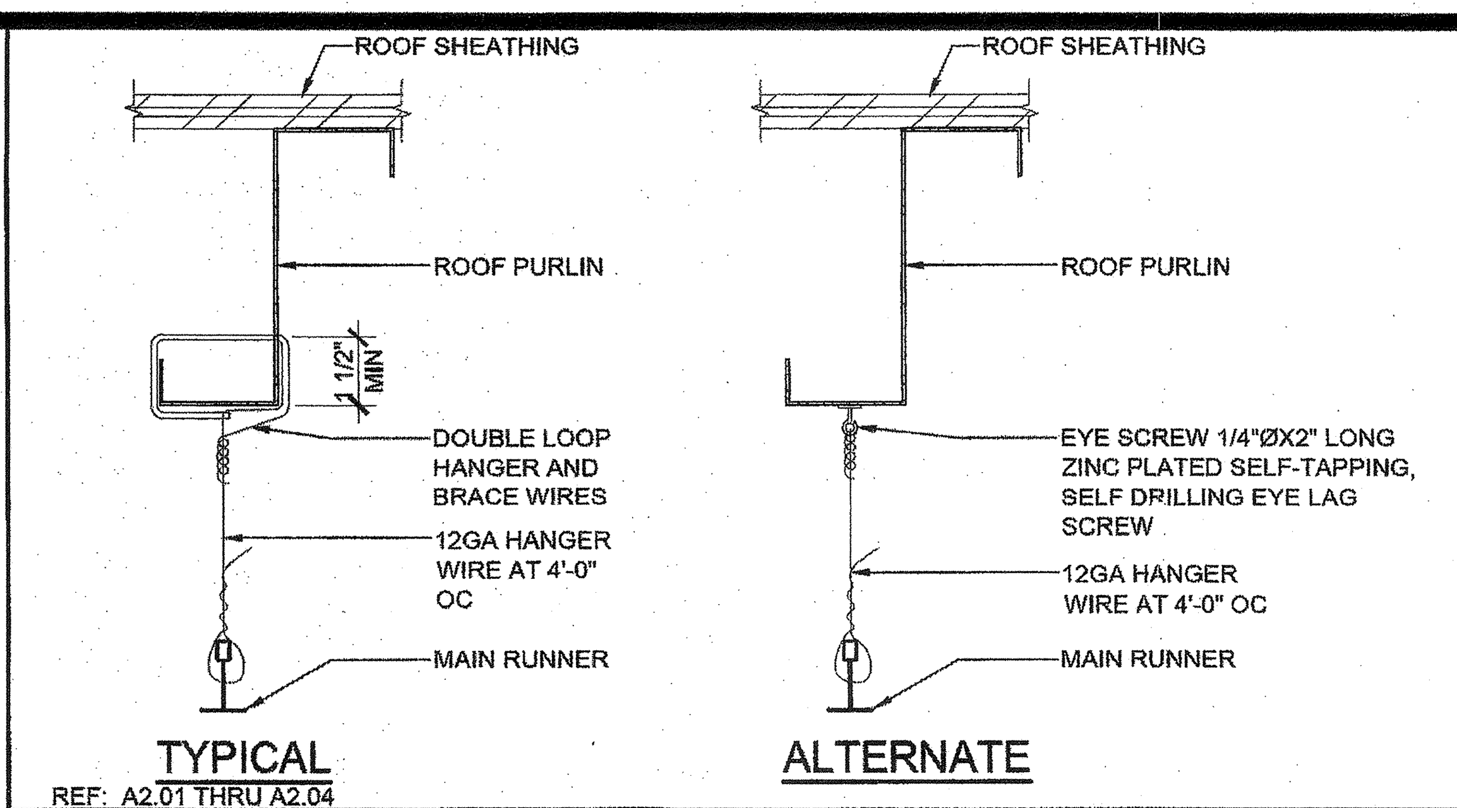
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

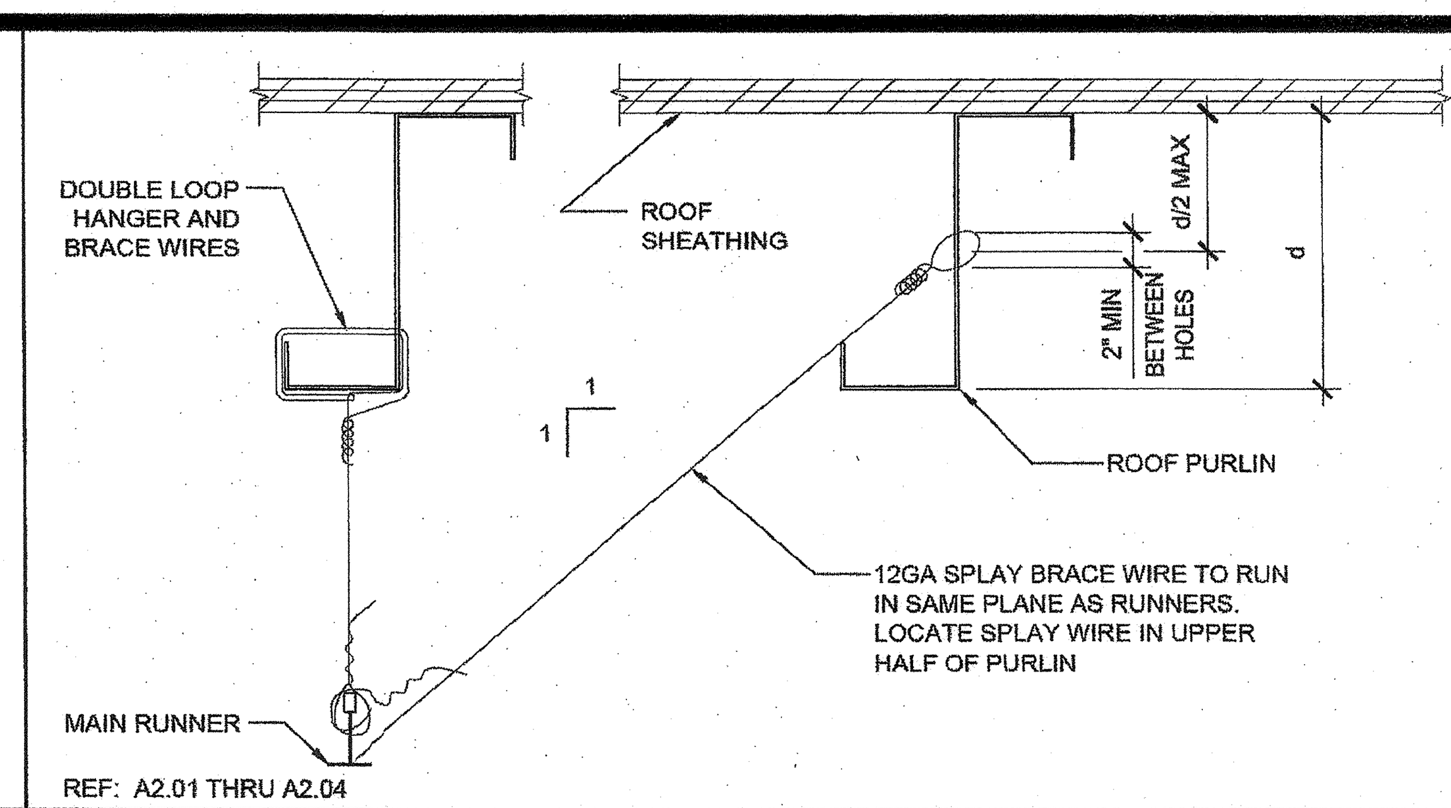
A-2.03



TRAPEZE DETAIL | 17

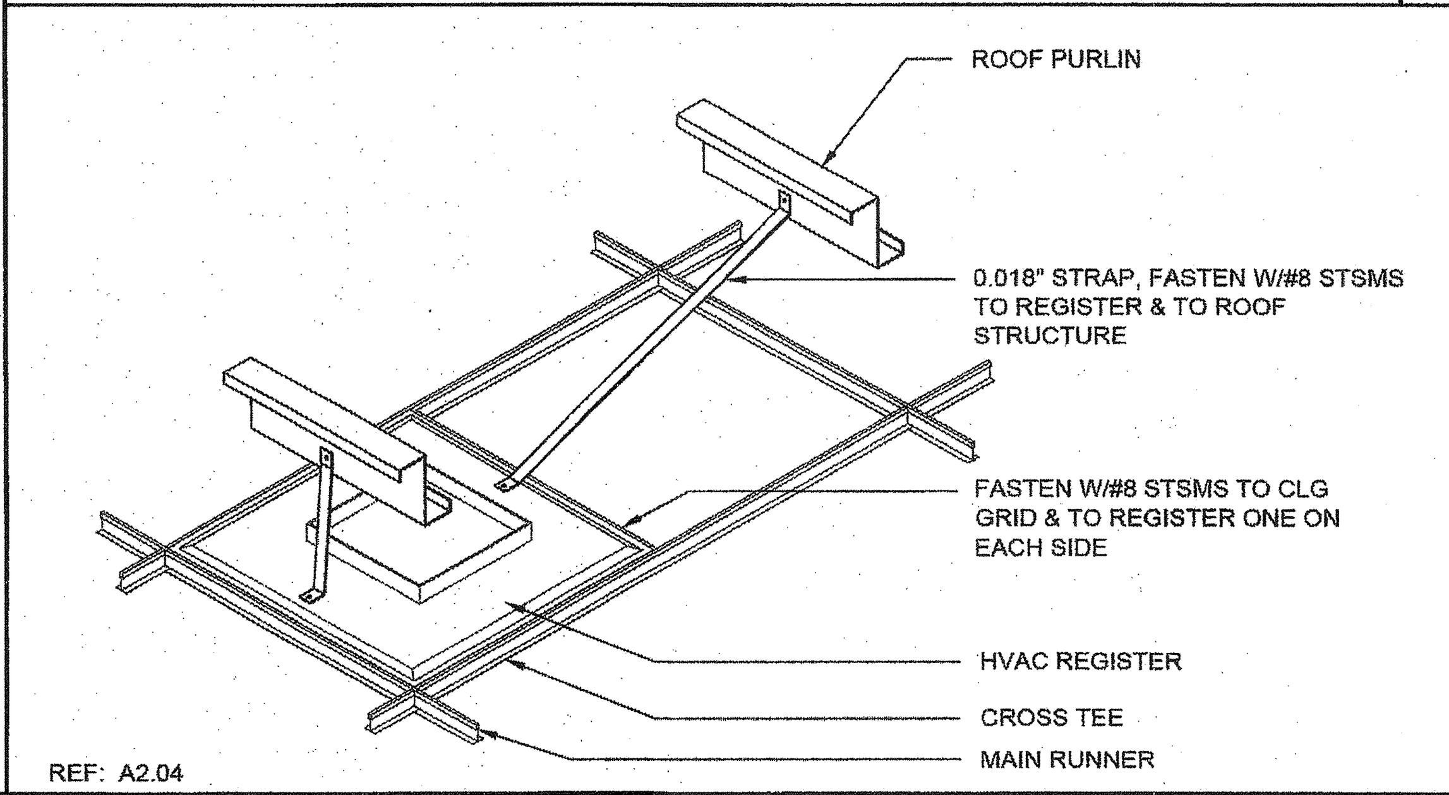


HANGER WIRE DETAIL | SCALE : 3"=1'-0" | 11

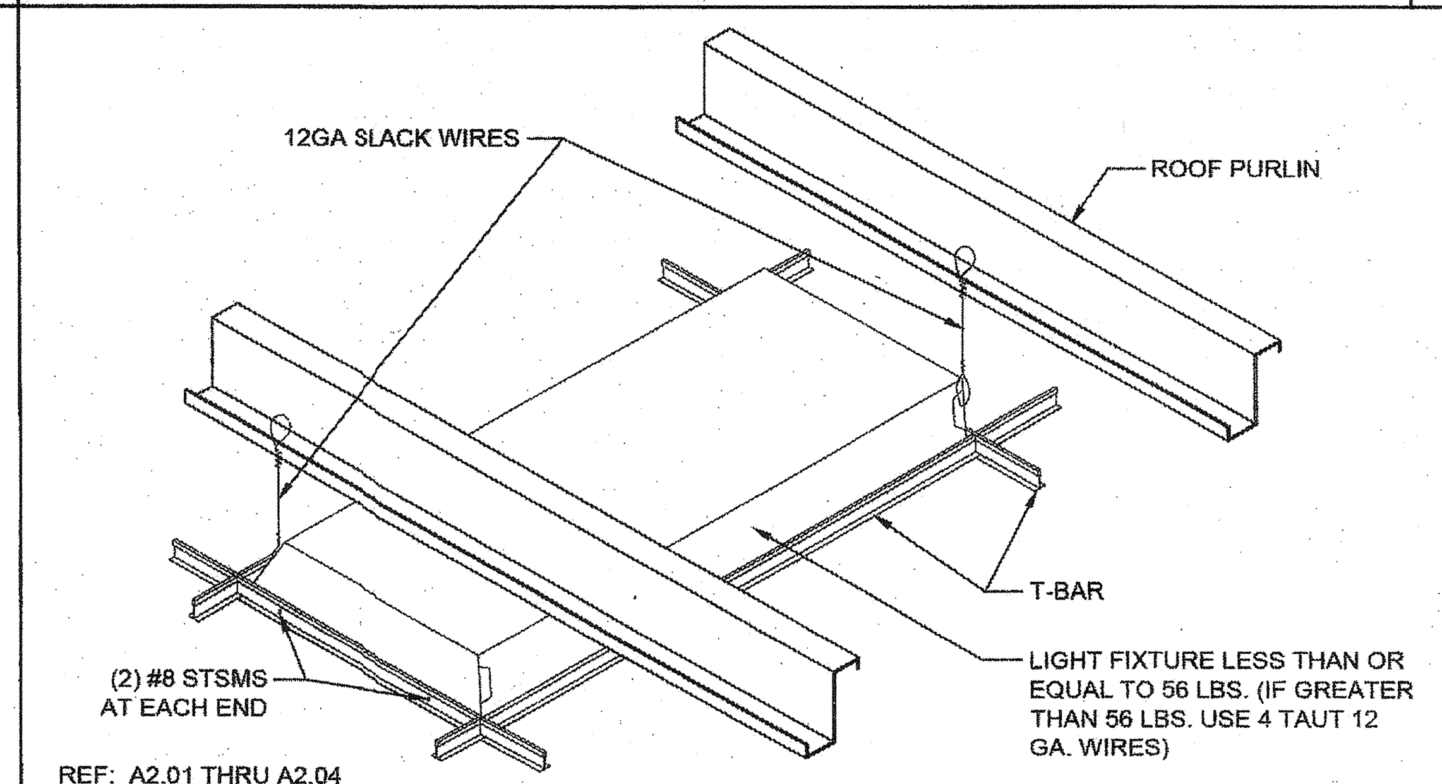


SPLAY BRACING WIRE | SCALE : 3"=1'-0" | 6

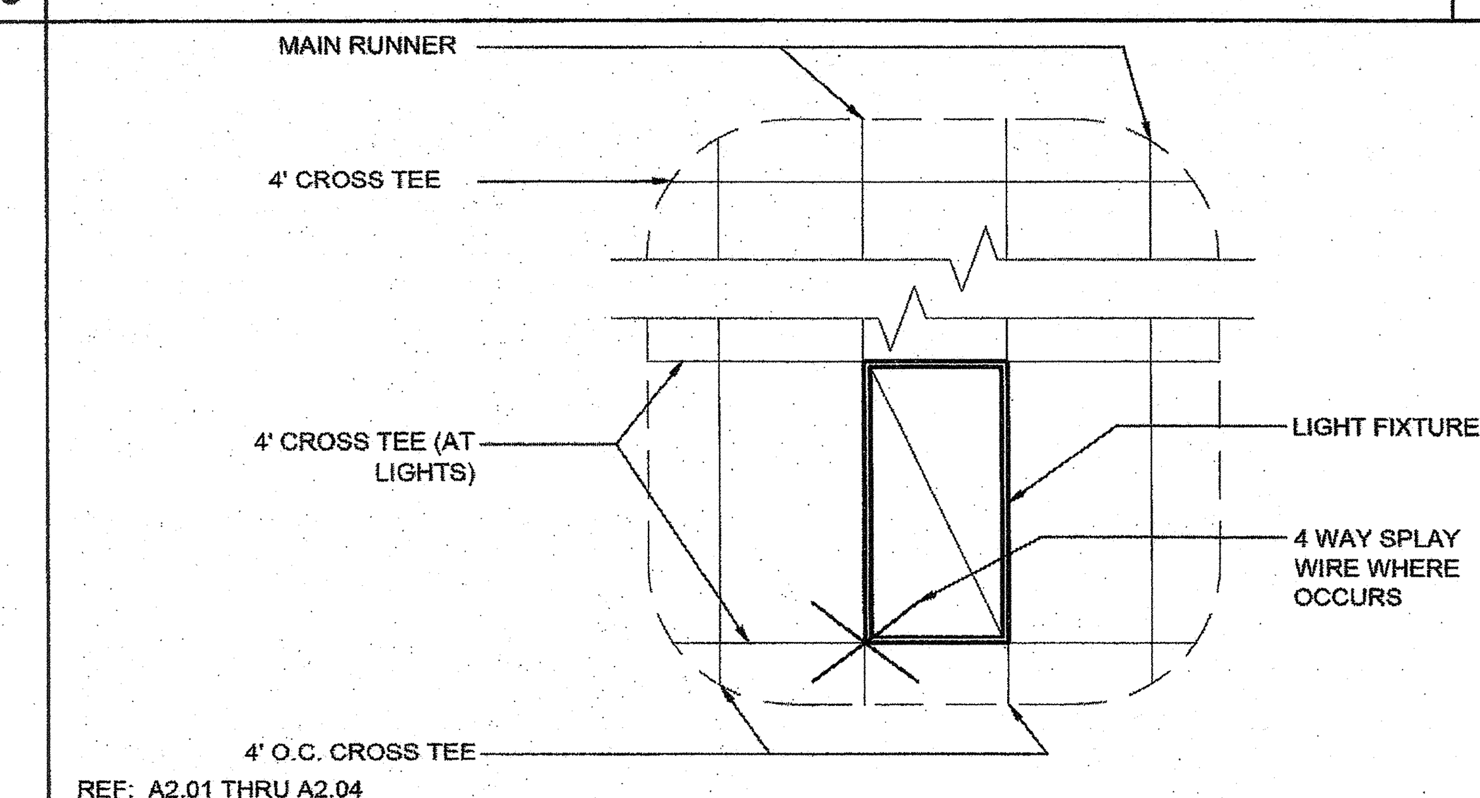
1



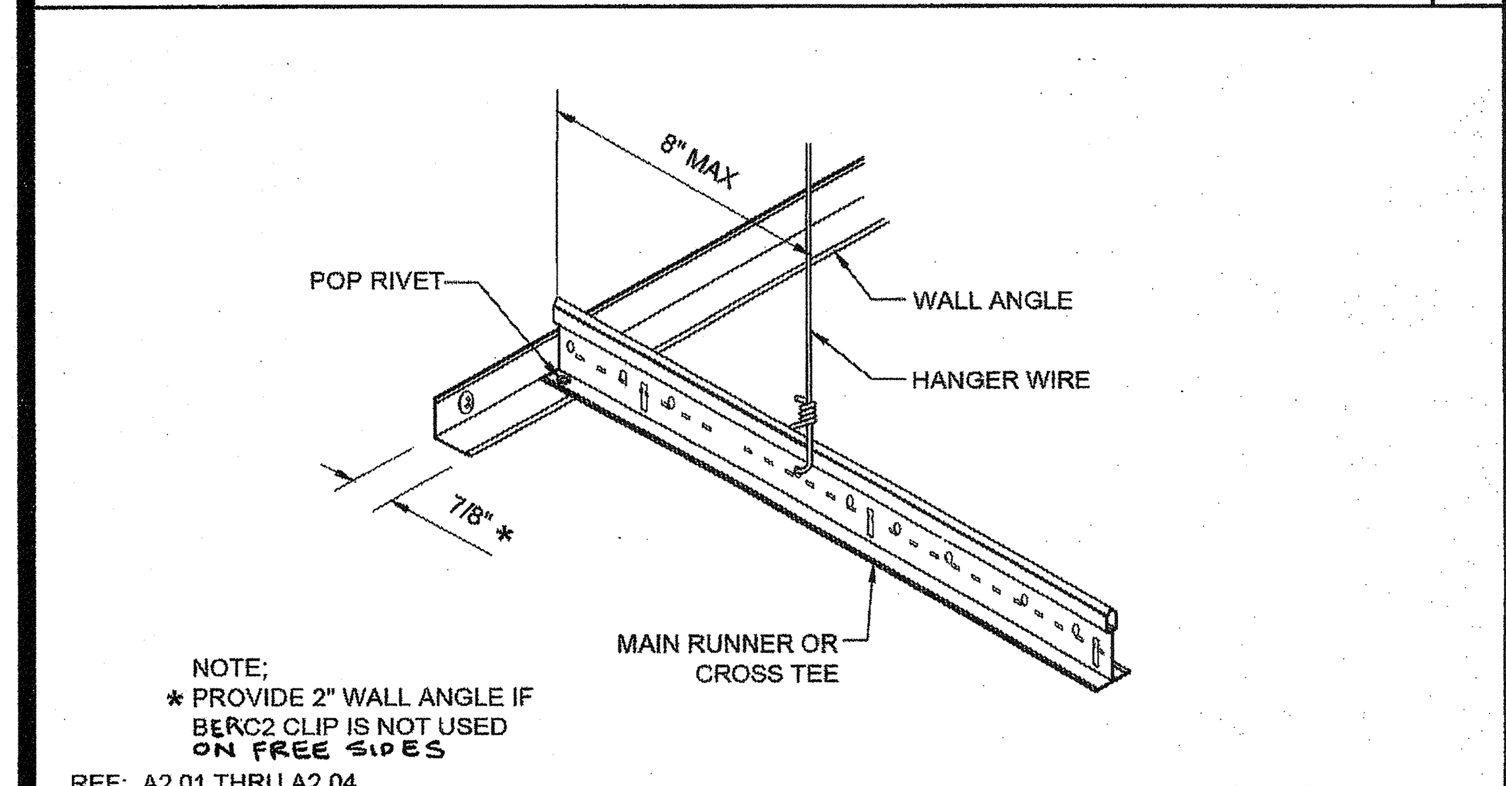
HVAC REGISTER MOUNTING | SCALE : NTS | 12



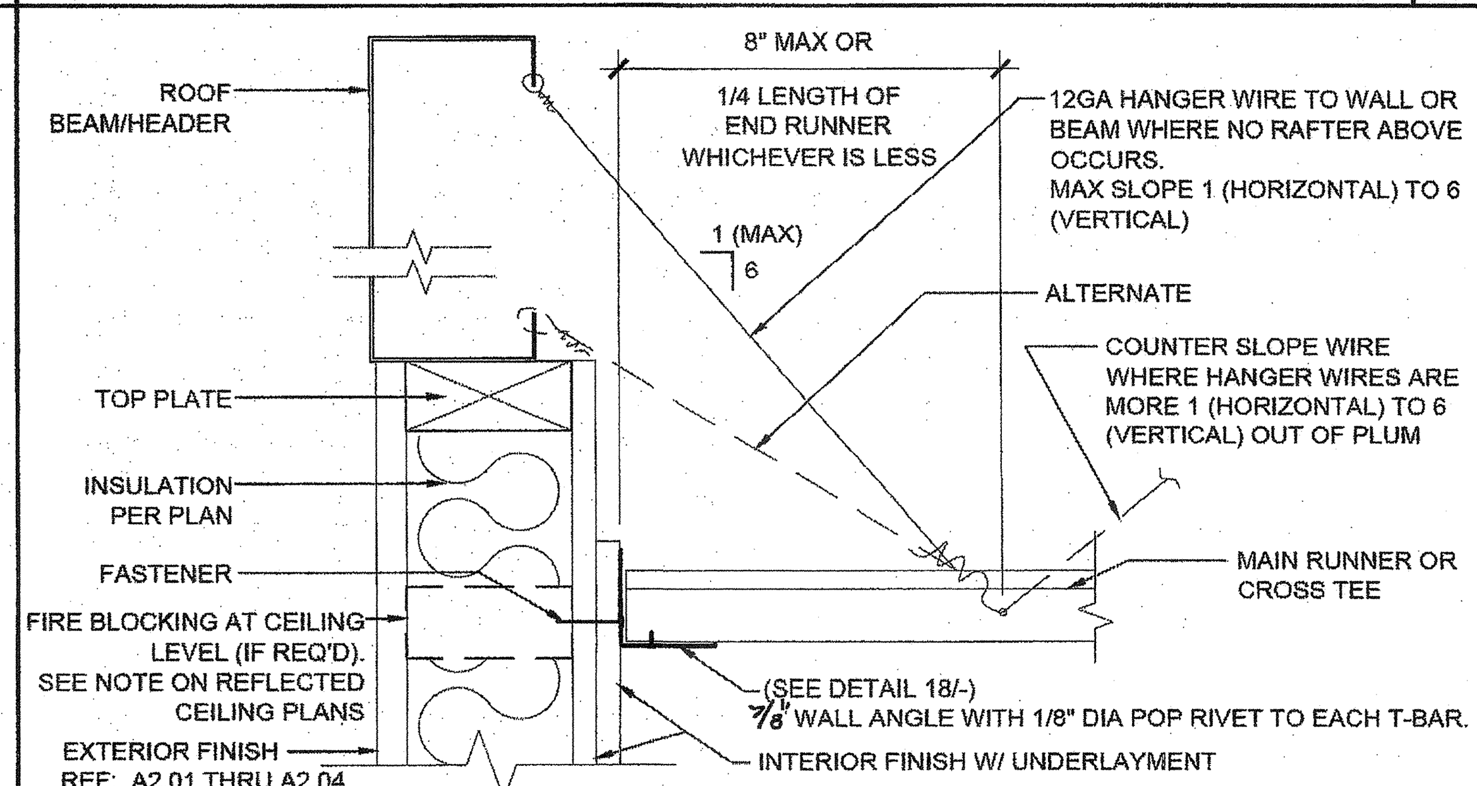
LIGHT FIXTURE MOUNTING | SCALE : NTS | 7



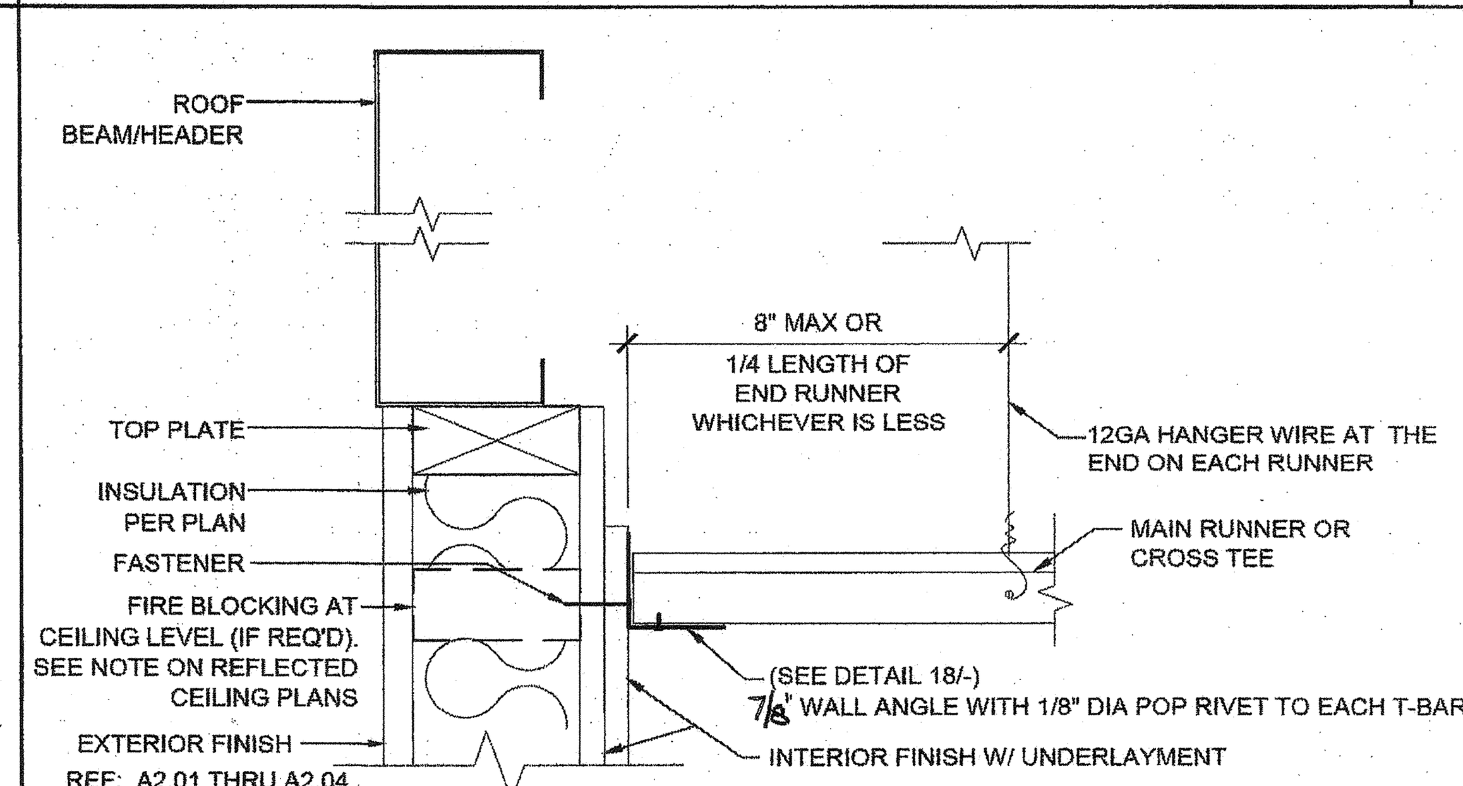
4' CROSS TEE AT LIGHTS | SCALE : 3/8"=1'-0" | 2



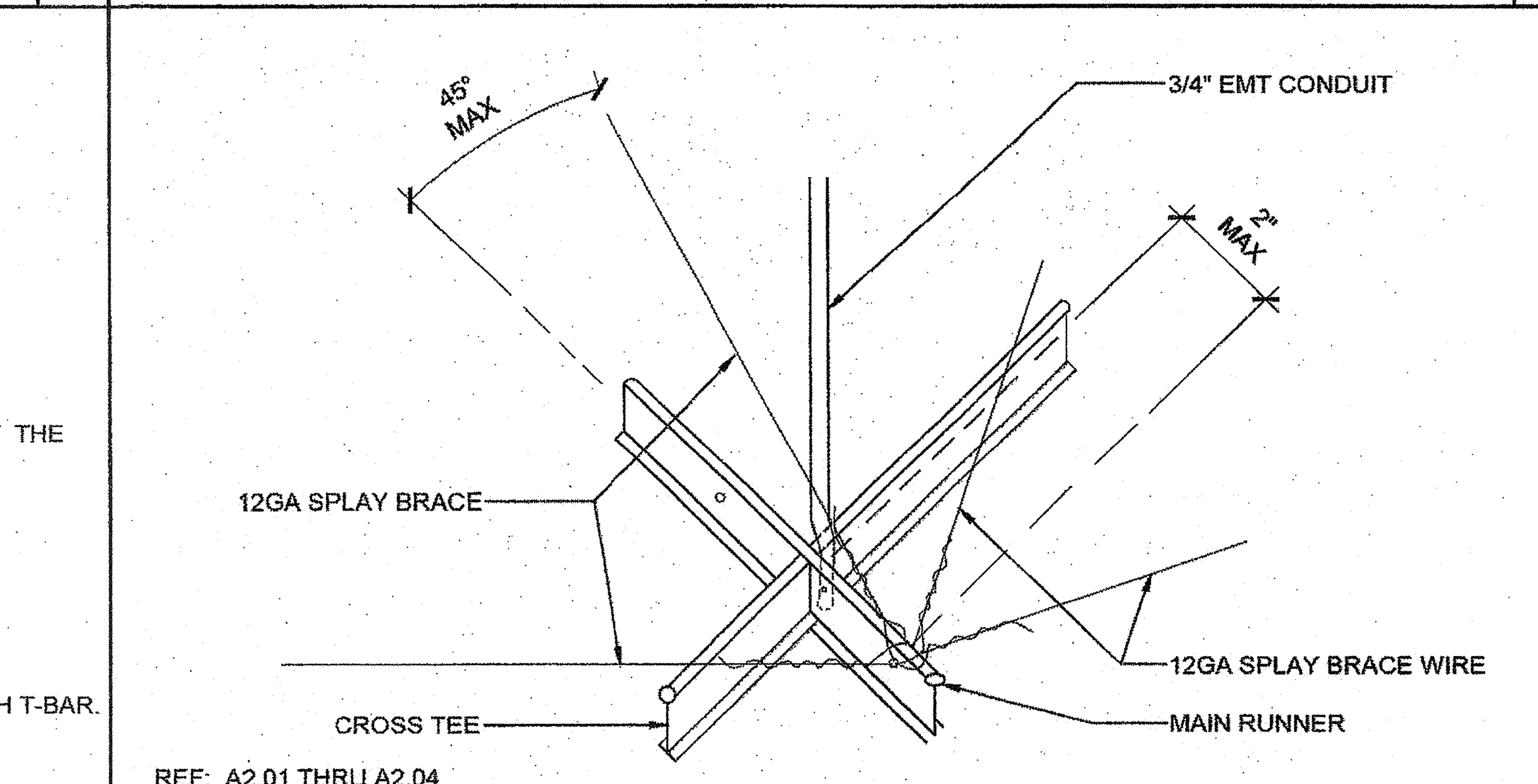
FIXED SIDE | SCALE : NTS | 18



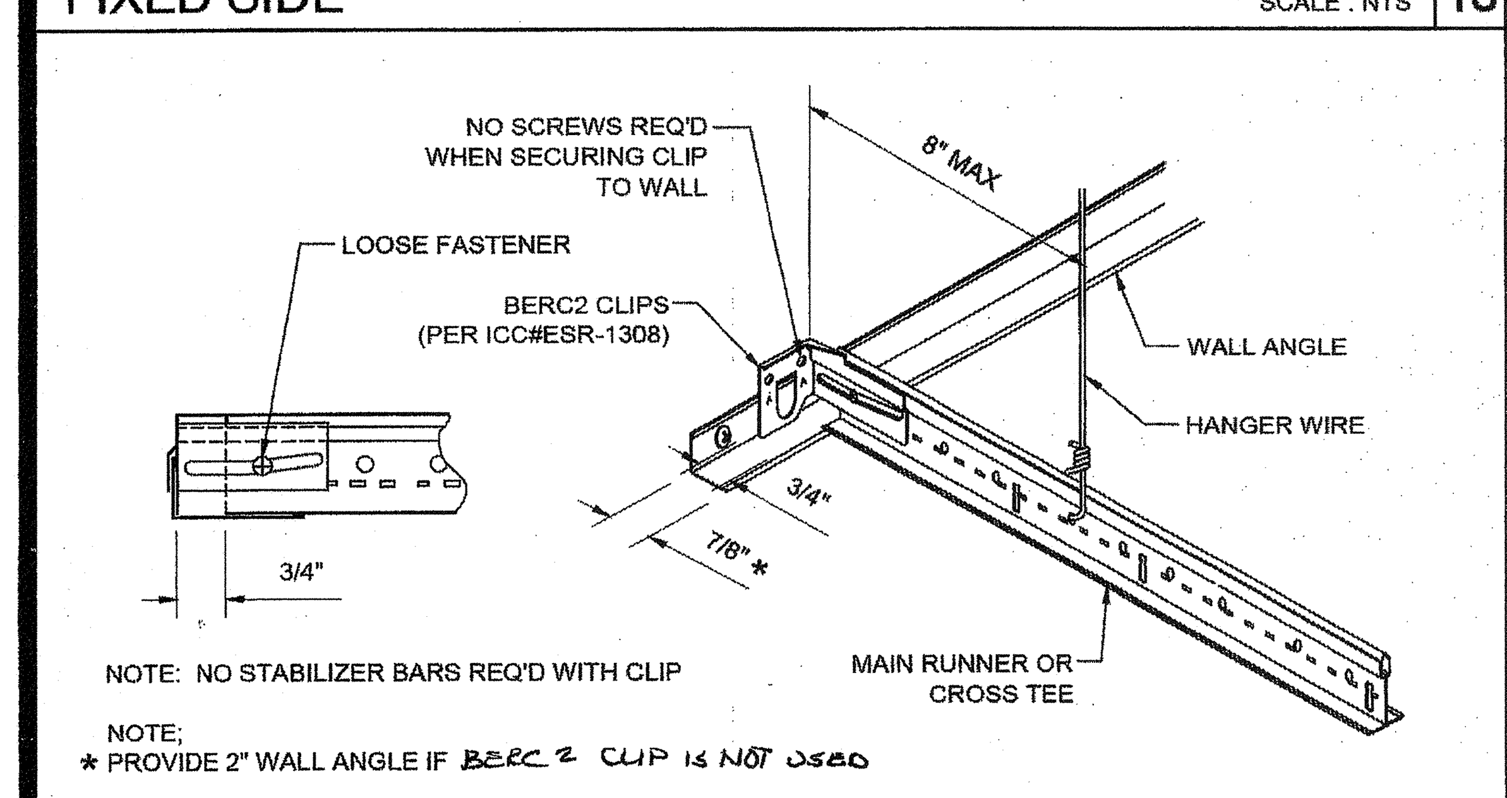
FIXED SIDE (ENDWALL) | SCALE : 3"=1'-0" | 13



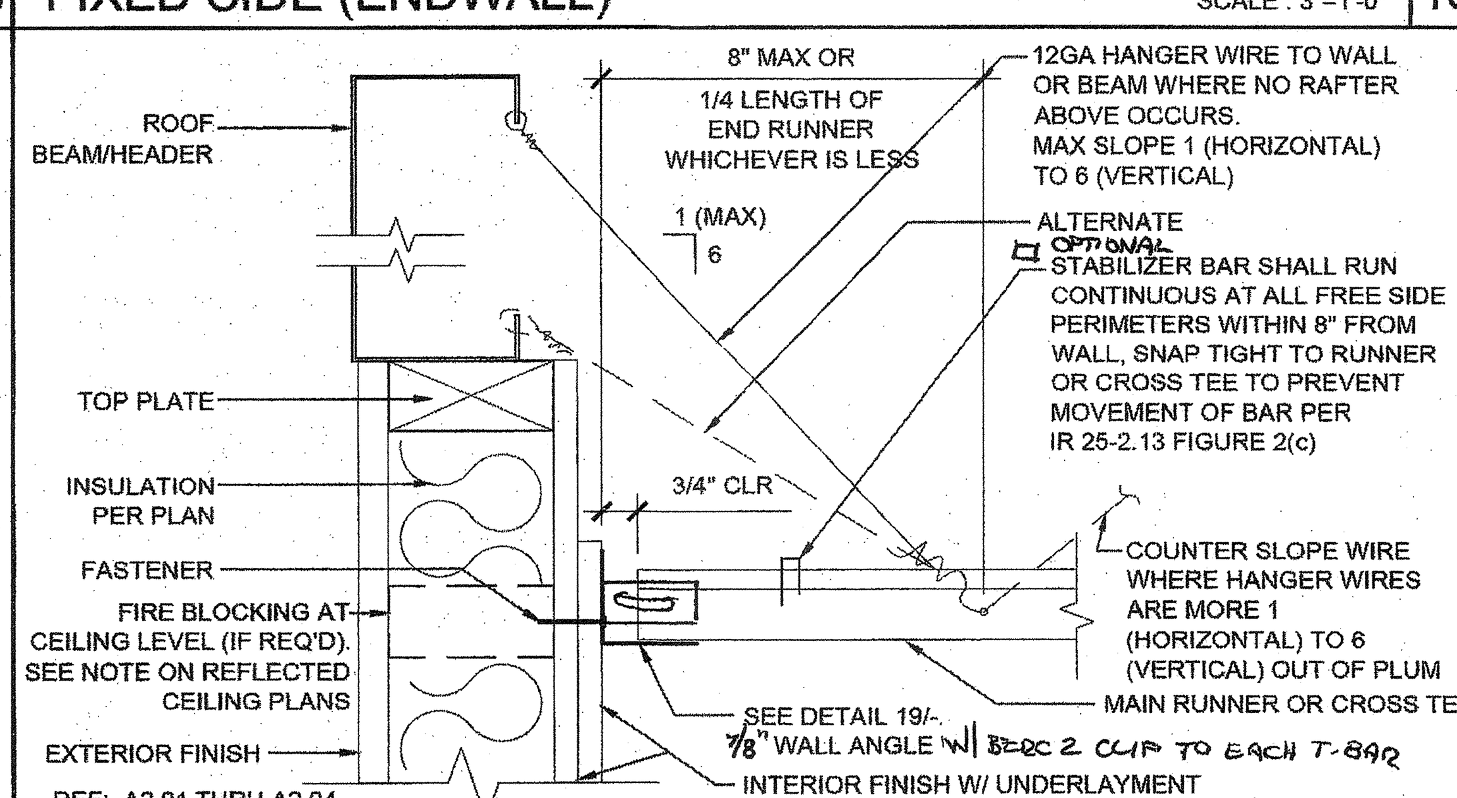
FIXED SIDE (SIDEWALL) | SCALE : 3"=1'-0" | 8



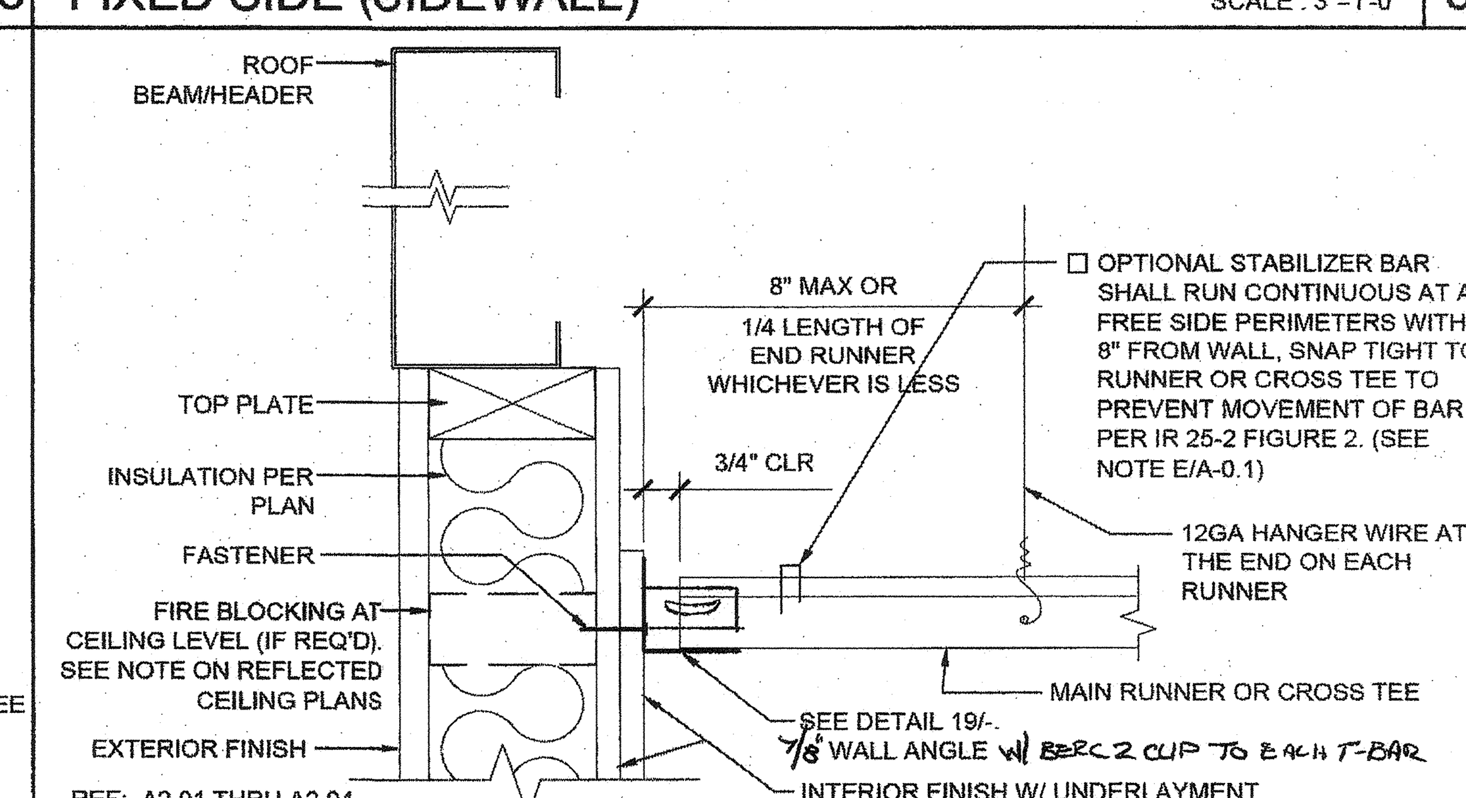
SEISMIC SPLAY - 4 WAY | SCALE : NTS | 3



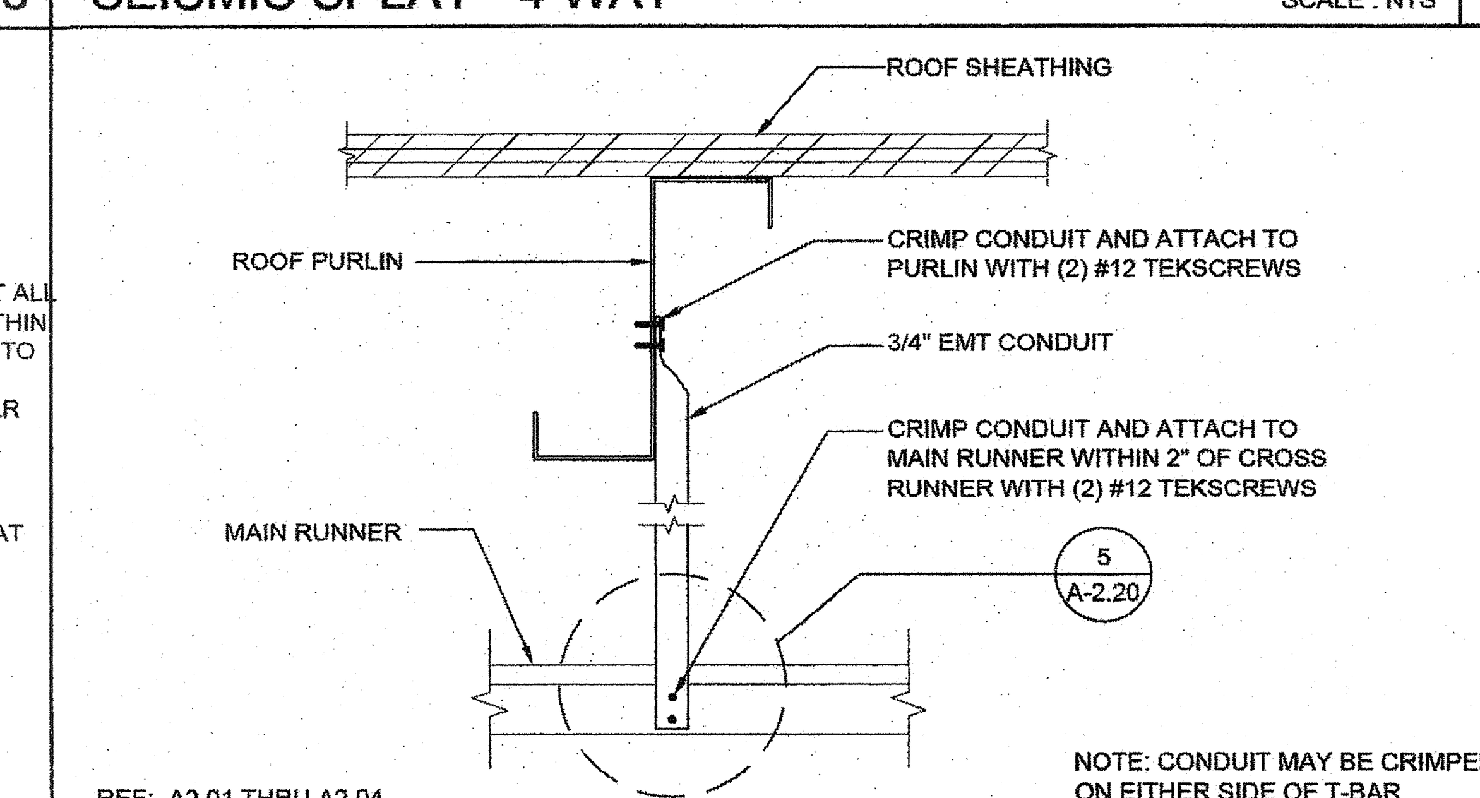
FREE SIDE | SCALE : NTS | 19



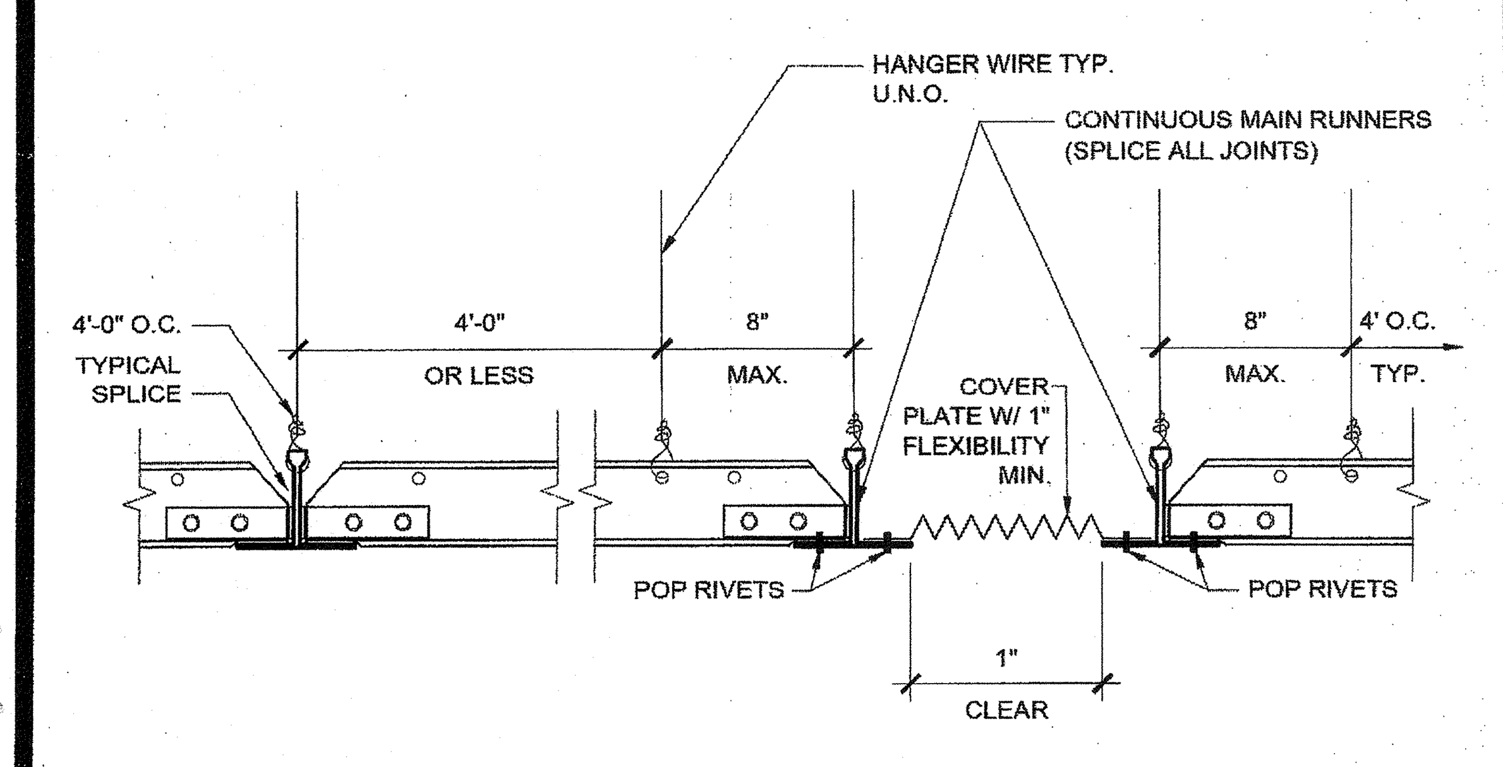
FREE SIDE (ENDWALL) | SCALE : 3"=1'-0" | 14



FREE SIDE (SIDEWALL) | SCALE : 3"=1'-0" | 9

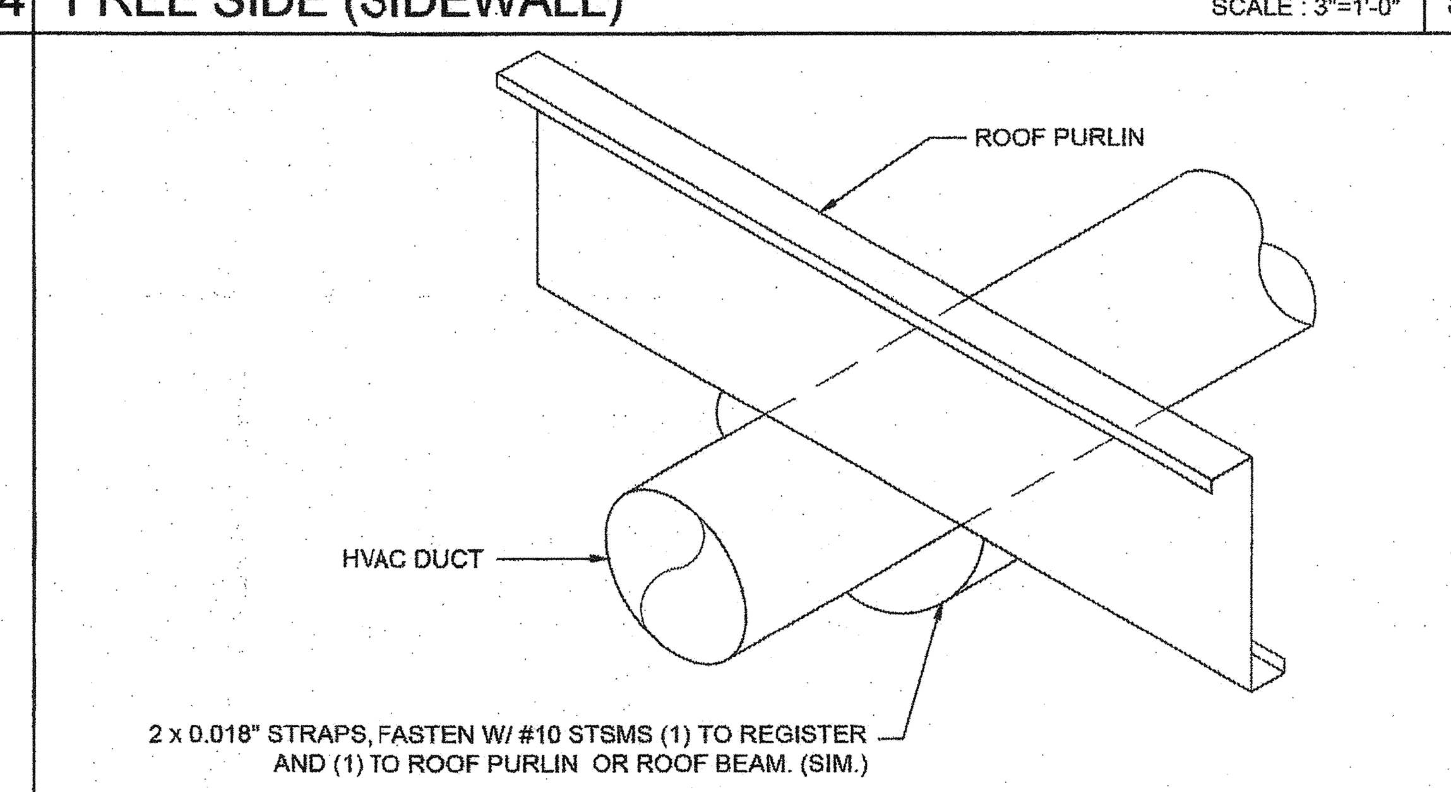


COMPRESSION STRUT | SCALE : 3"=1'-0" | 4



GRID SEISMIC SEPARATION JOINT | SCALE : 3"=1'-0" | 20

NOT USED | 15



HVAC DUCTWORK MOUNTING | SCALE: NTS | 10

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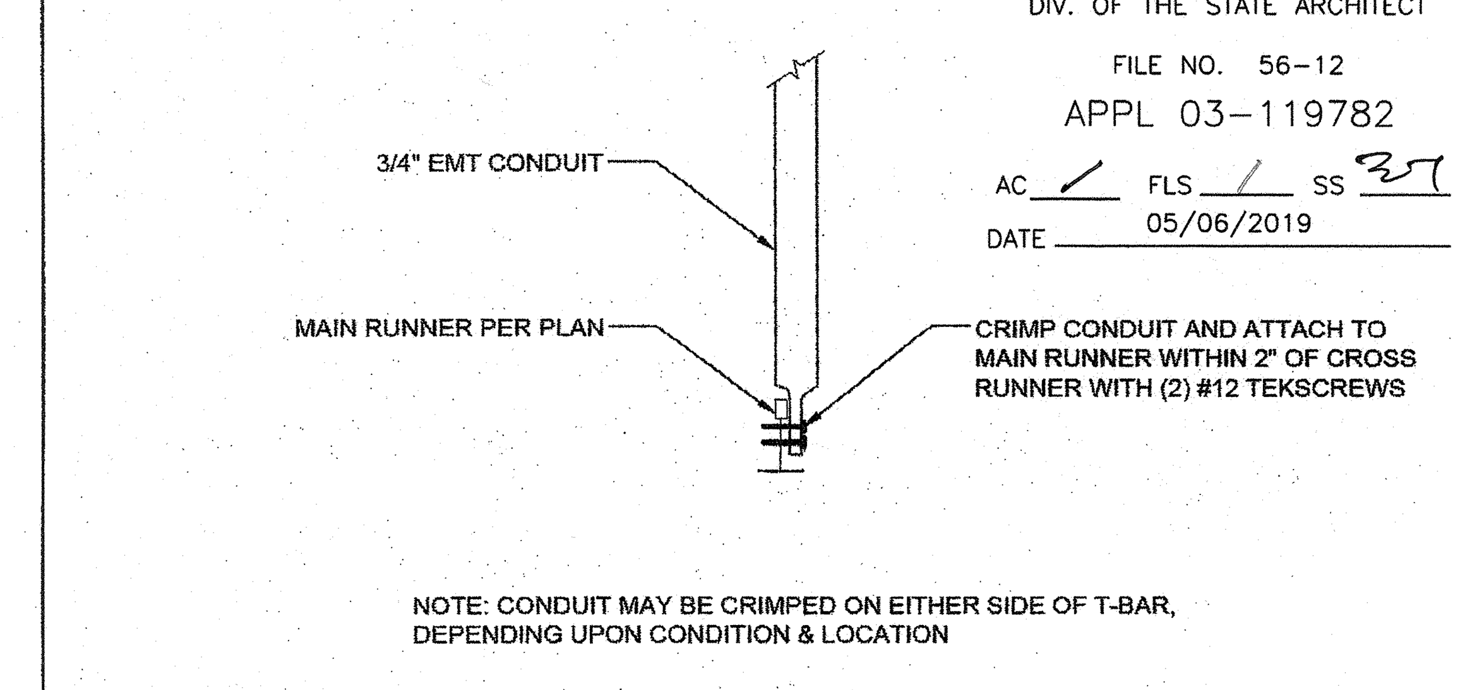
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS
DATE 05/06/2019



COMPRESSION STRUT | SCALE : 3"=1'-0" | 5

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
T-GRID

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04-116517
AC ✓ FLS ✓ SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS

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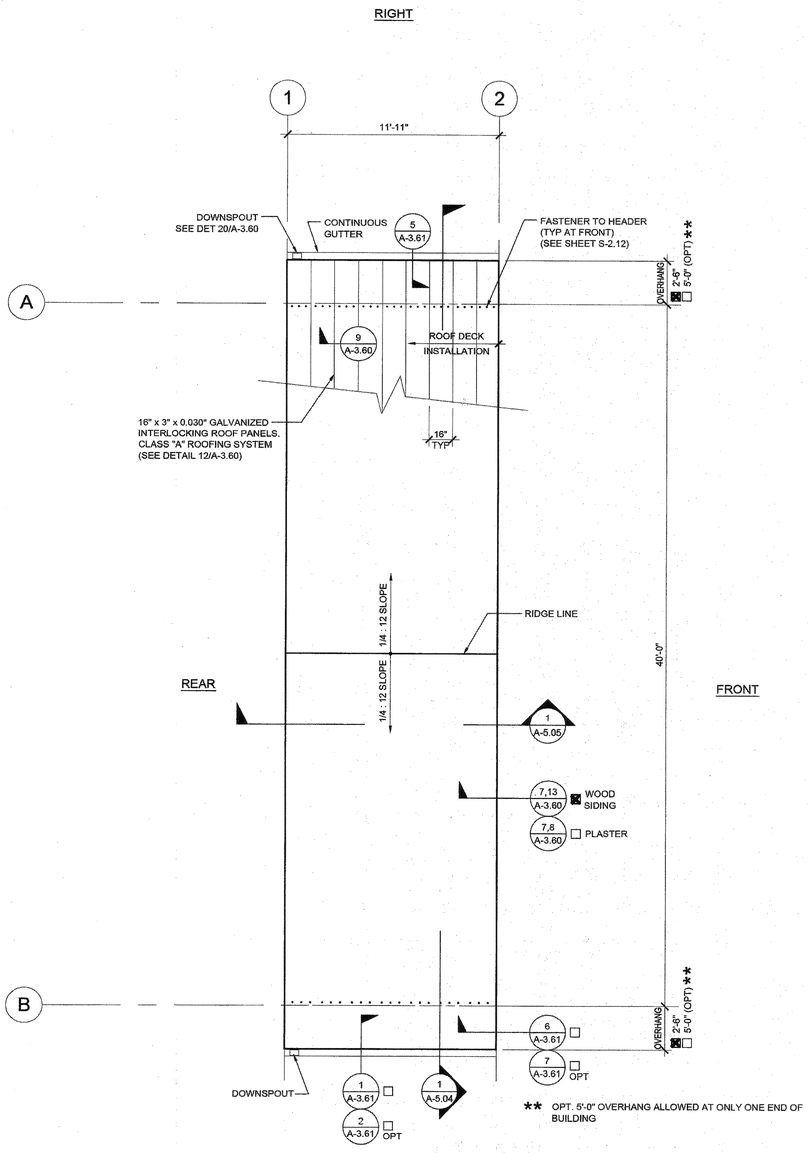
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

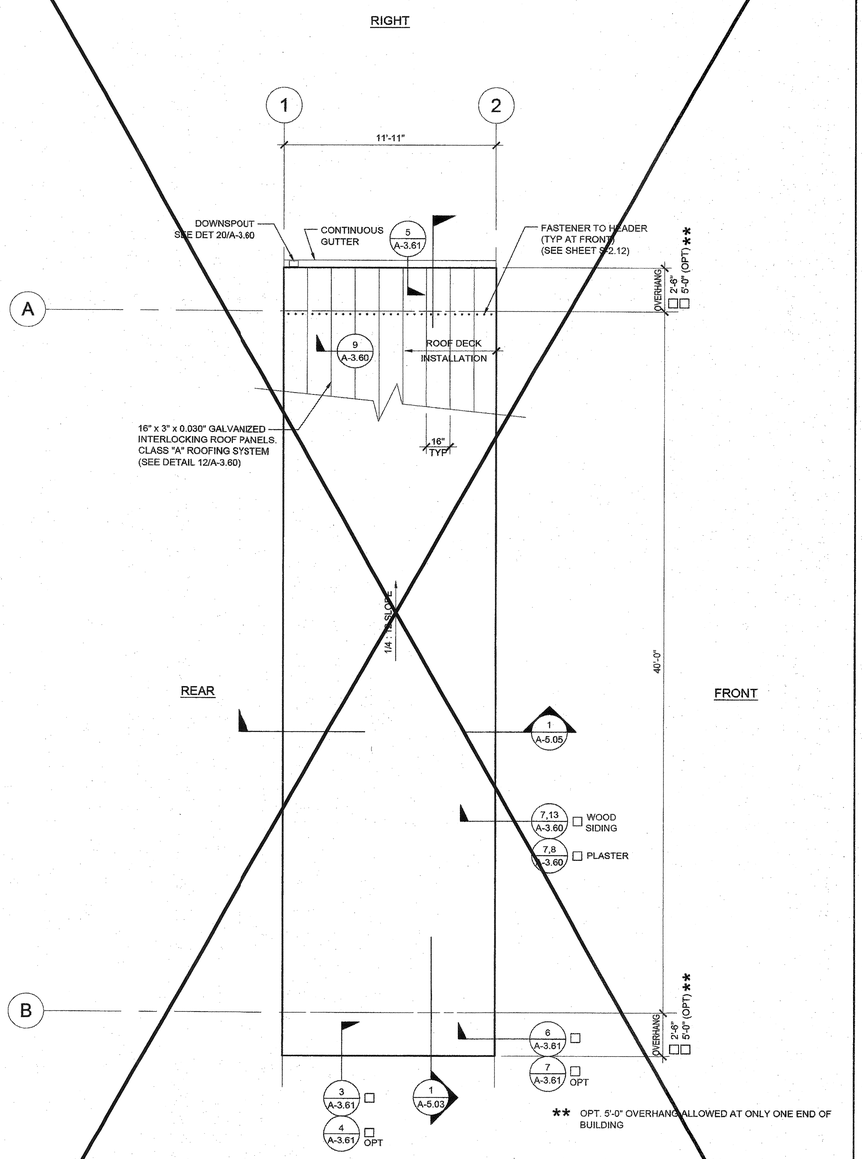
A-2.20



ROOF PLAN - 0.030" METAL DECK - DUAL SLOPE

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

2



ROOF PLAN - 0.030" METAL DECK - MONO SLOPE

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

1

NOTES

1. GROUP E OCCUPANCIES - BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE 42" MIN. GUARDRAIL OR PARAPET.
CBC 2013 SECTIONS 1013.6 & 1013.7.
4. FOR SPECIFIC DOWNSPOUT LOCATIONS FOR VARIOUS BUILDING SIZES, SEE KEY PLANS ON SHEET A-0.3.
LOCATE ONE (1) DOWNSPOUT FOR EVERY THREE (3) MODULES (TYP)
5. ANY BUILDING OVER 3,000 SQ/FT REQUIRES A DRAFT STOP UNLESS BUILDING IS EQUIPPED WITH FIRE SPRINKLERS.
SEE DETAIL 15 / A-2.20
6. WHEN PARAPETS ARE REQUIRED BECAUSE OF FIRE SEPARATION REQUIREMENTS AND/OR PROJECT SPECIFICATIONS, PROVIDE PARAPET PER CBC SECT. 705.11

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FILE NO. 56-12

APPL 03-119782

AC ___ FLS ___ SS BT

DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF PLAN
12'x40' - 0.030" METAL DECK MONO OR DUAL SLOPE

LICENSED ARCHITECT
BRIAN K SHIVELY
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 [illegible] 17 FLS SS DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT ONLY - NOT FOR CONSTRUCTION A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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PC 04-114135
AC — FLS SS RAF
DATE JUL - 7 2015

REVISIONS

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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-3.11

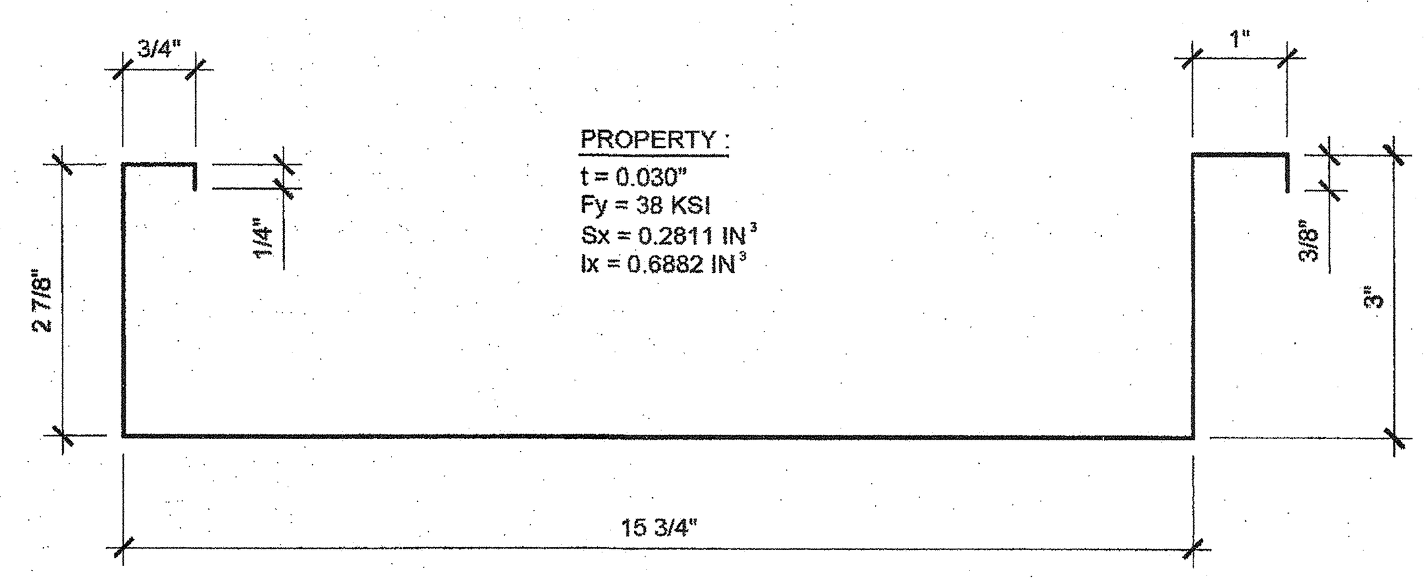
NOT USED 16

NOT USED 11

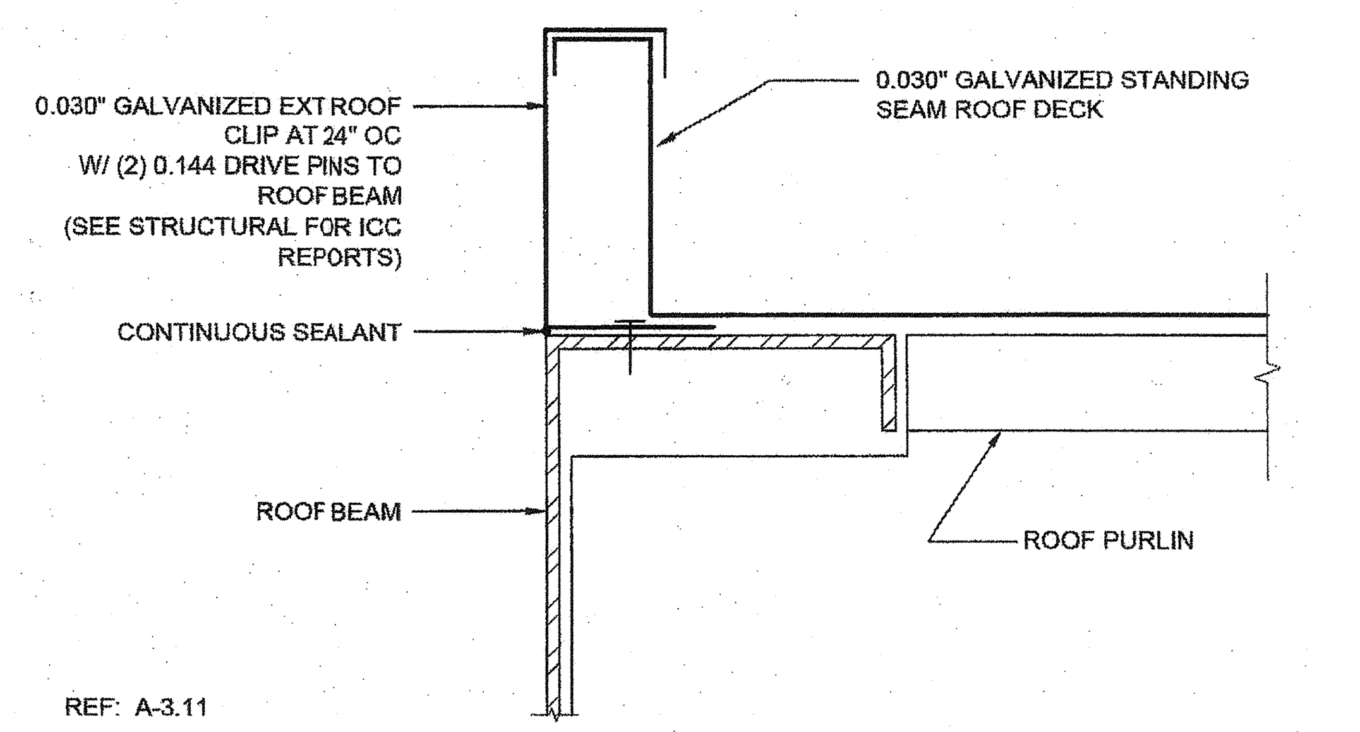
NOT USED 6

NOT USED 1

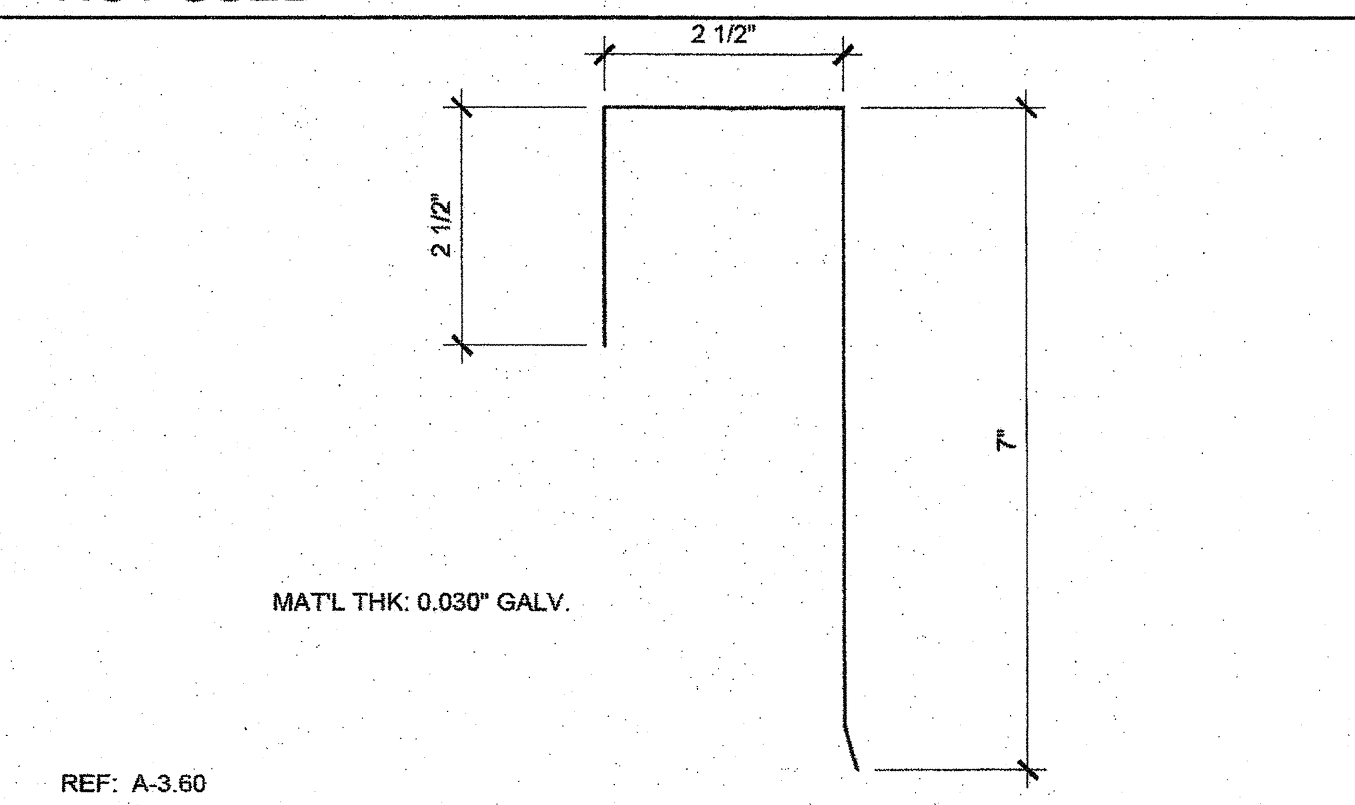
NOT USED 17



ROOF DECK PROFILE SCALE : 6" = 1'-0" 12

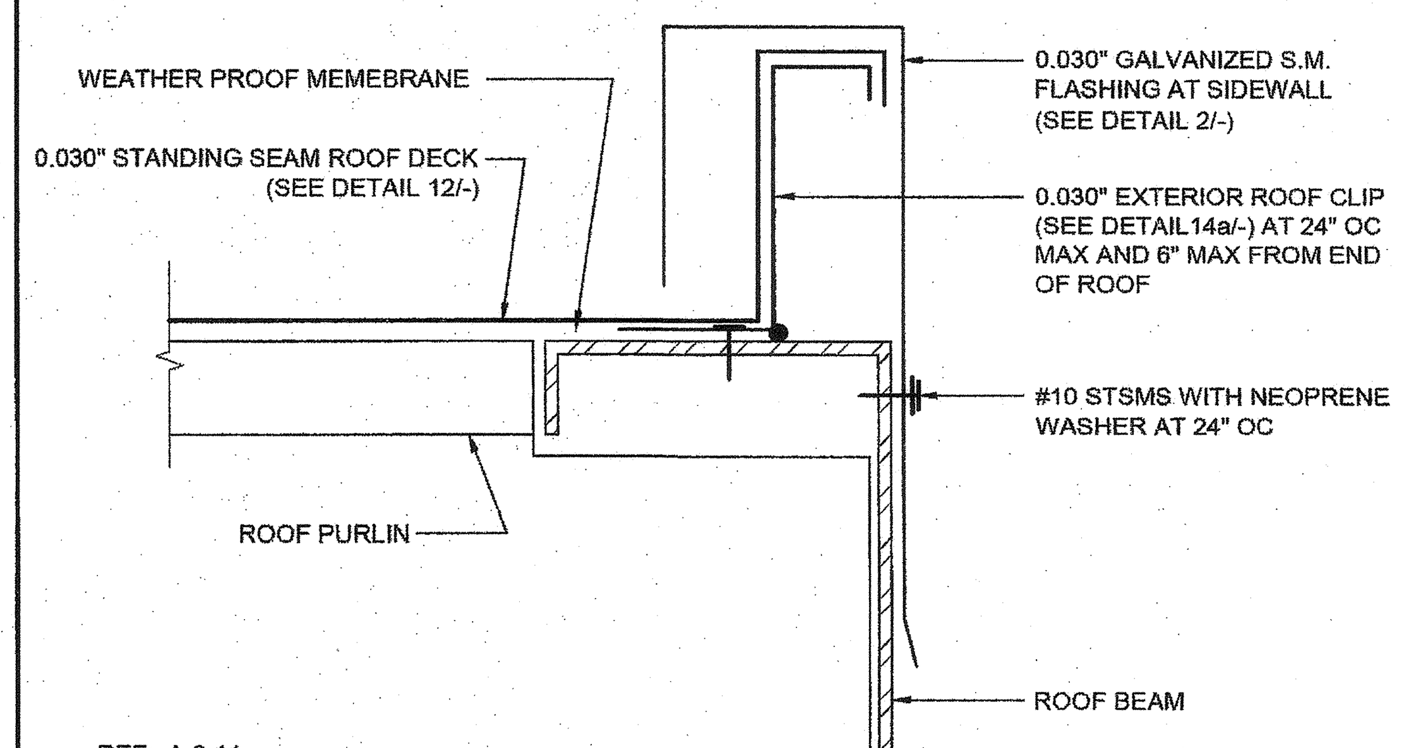


STARTER ROOF PAN CONNECTION SCALE : 6"=1'-0" 7

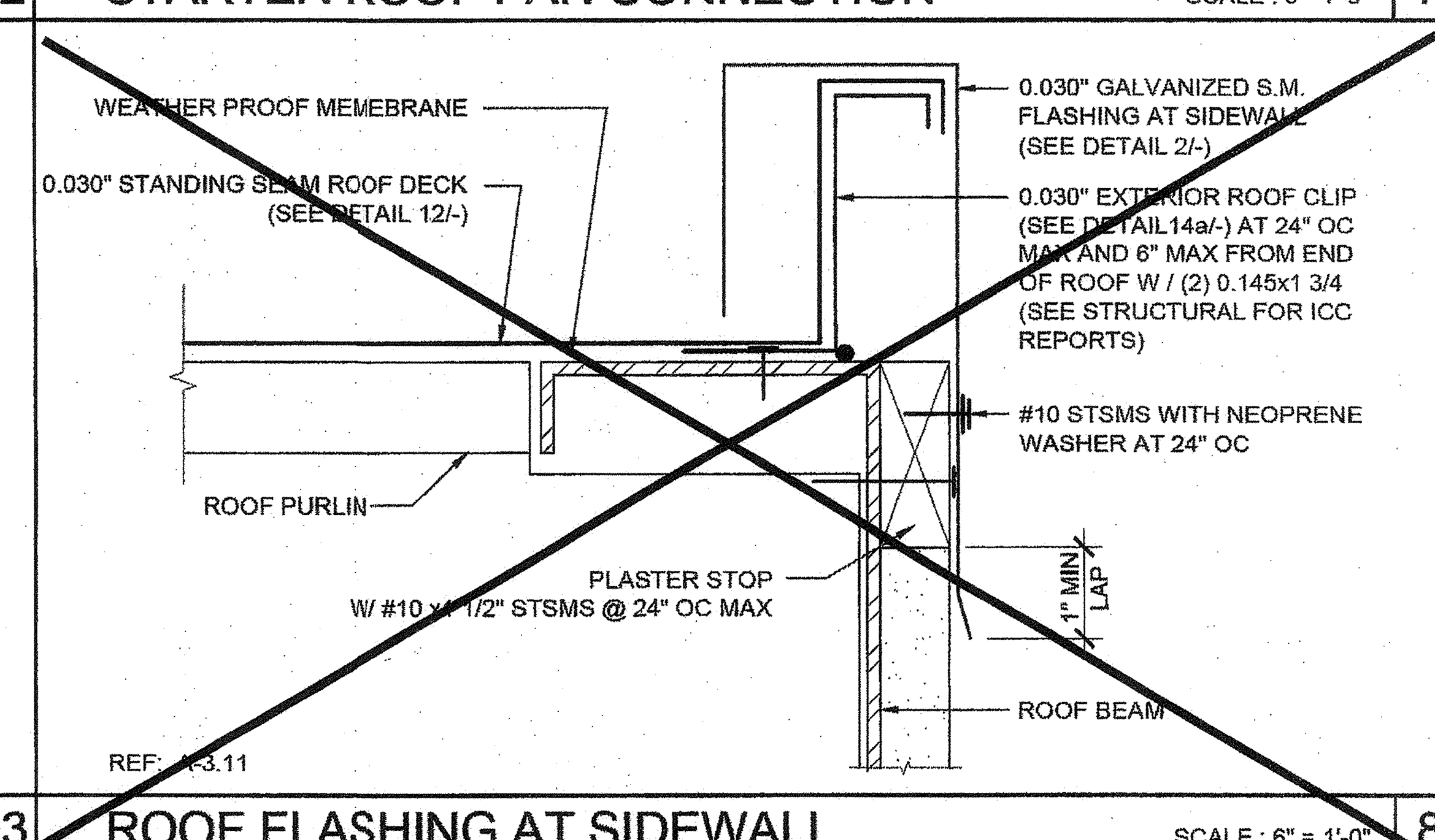


ROOF FLASHING SCALE : 6" = 1'-0" 2

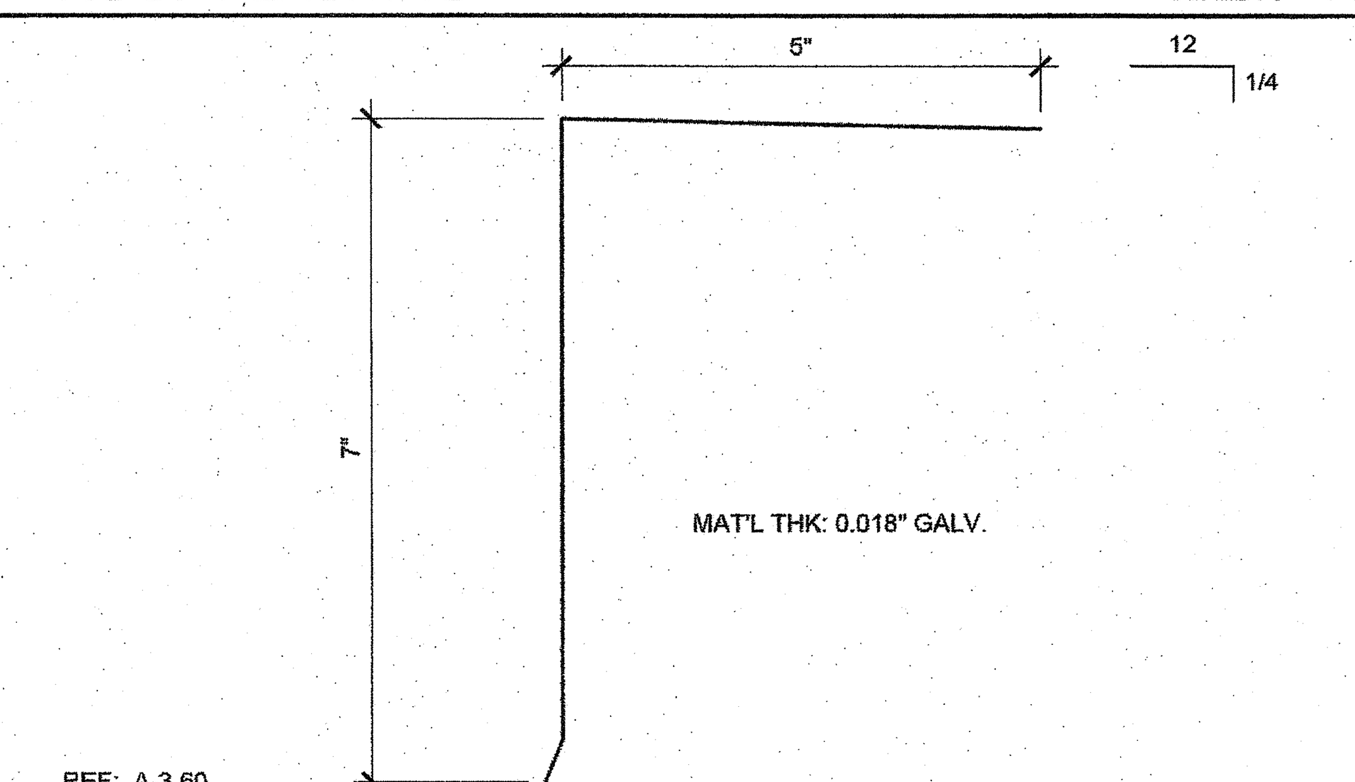
NOT USED 18



ROOF FLASHING AT SIDEWALL SCALE : 6" = 1'-0" 13

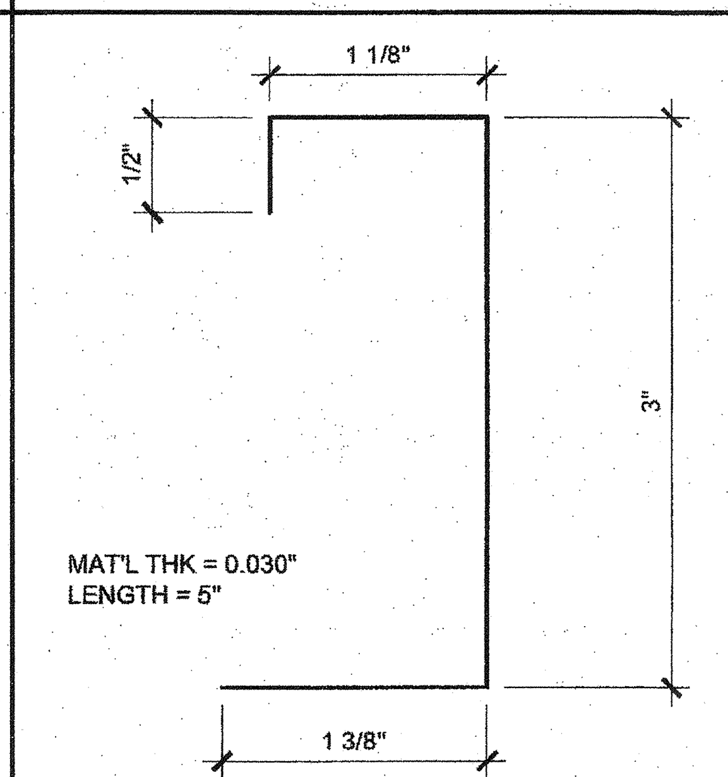


ROOF FLASHING AT SIDEWALL SCALE : 6" = 1'-0" 8

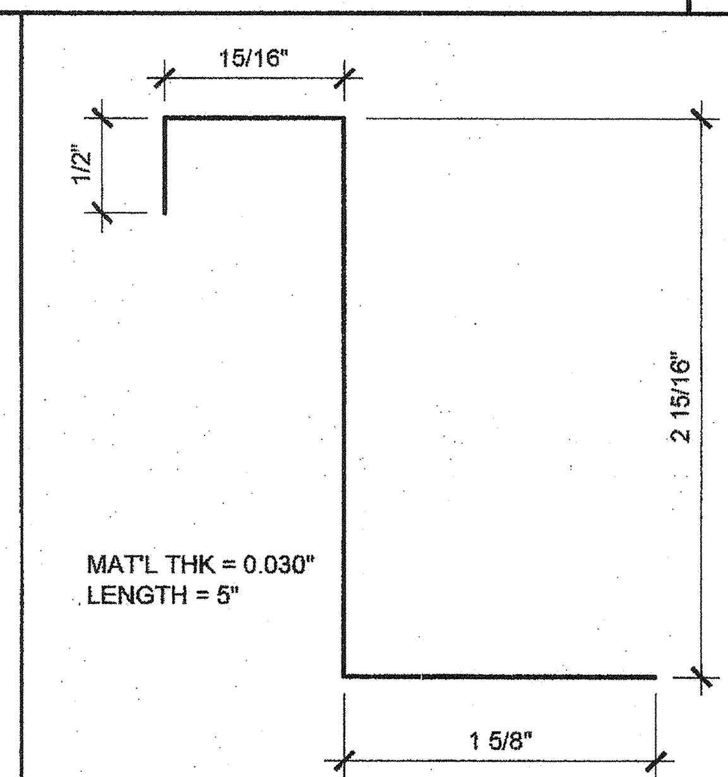


ROOF END CAP AT HIGH SIDE SCALE : 6" = 1'-0" 3

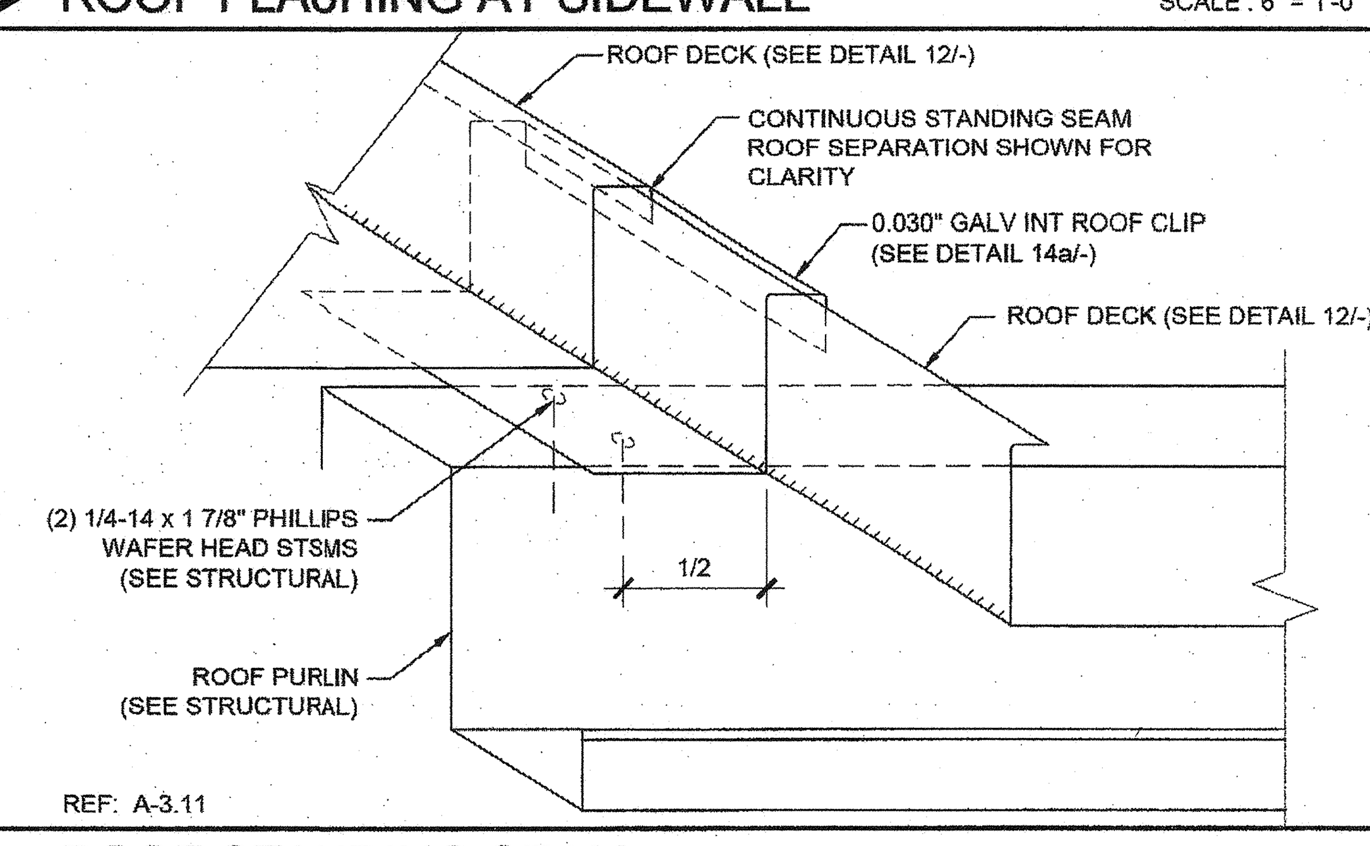
NOT USED 19



EXT. ROOF CLIP SCALE : 1'-0" = 1'-0" 14b



INT. ROOF CLIP SCALE : 1'-0" = 1'-0" 14a



ROOF STANDING SEAM SCALE : 1'-0" = 1'-0" 9

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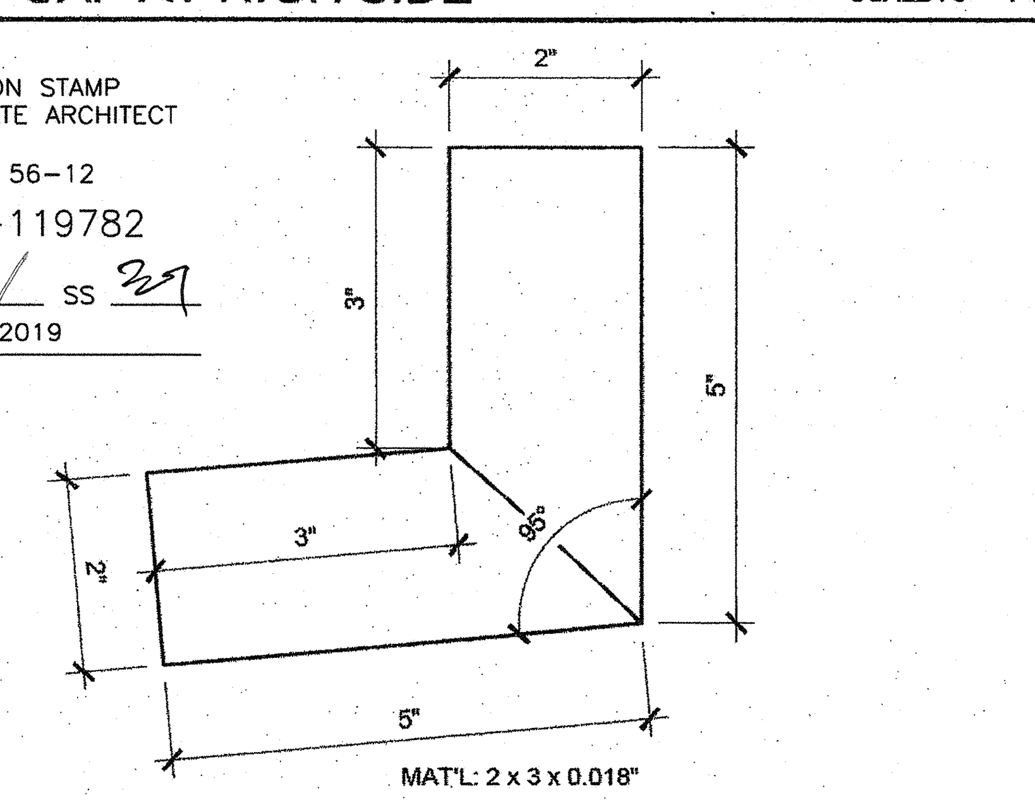
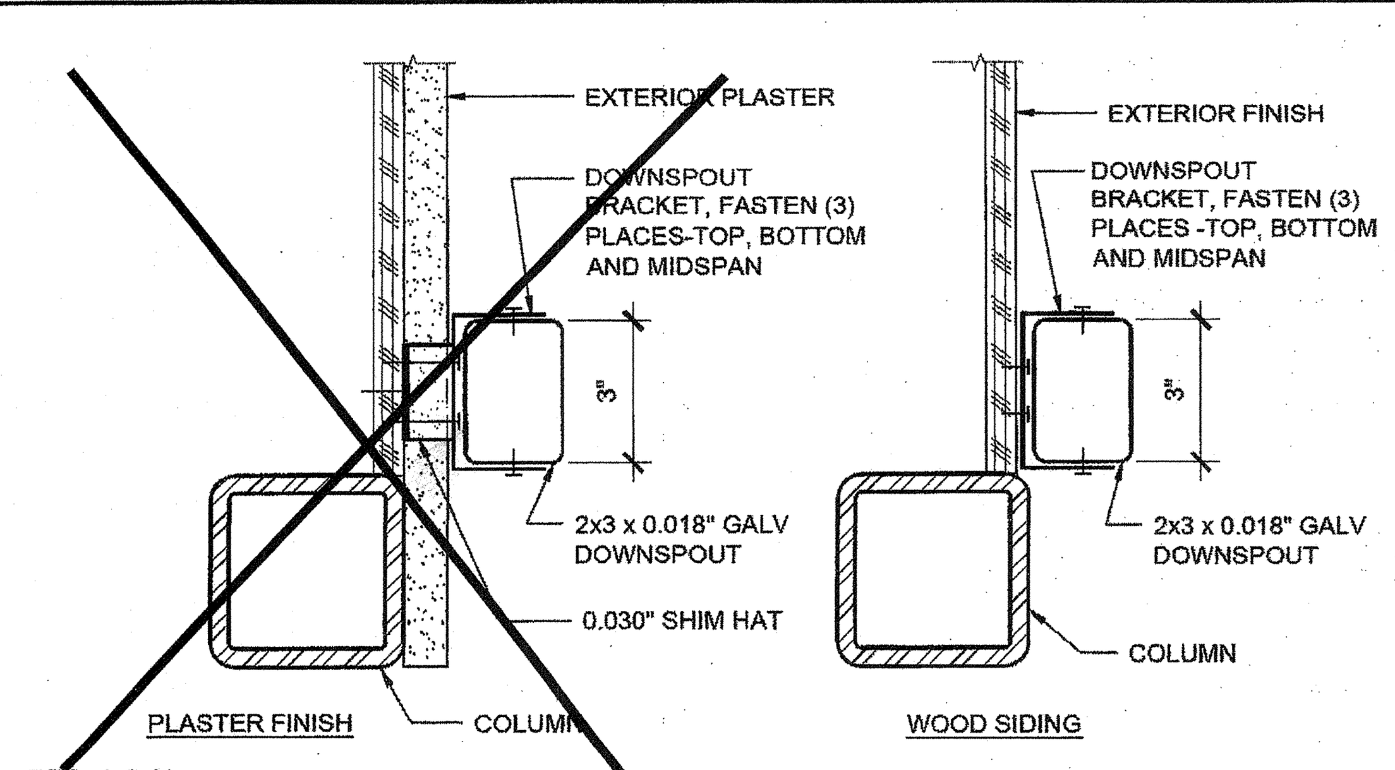
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS
DATE 05/06/2019



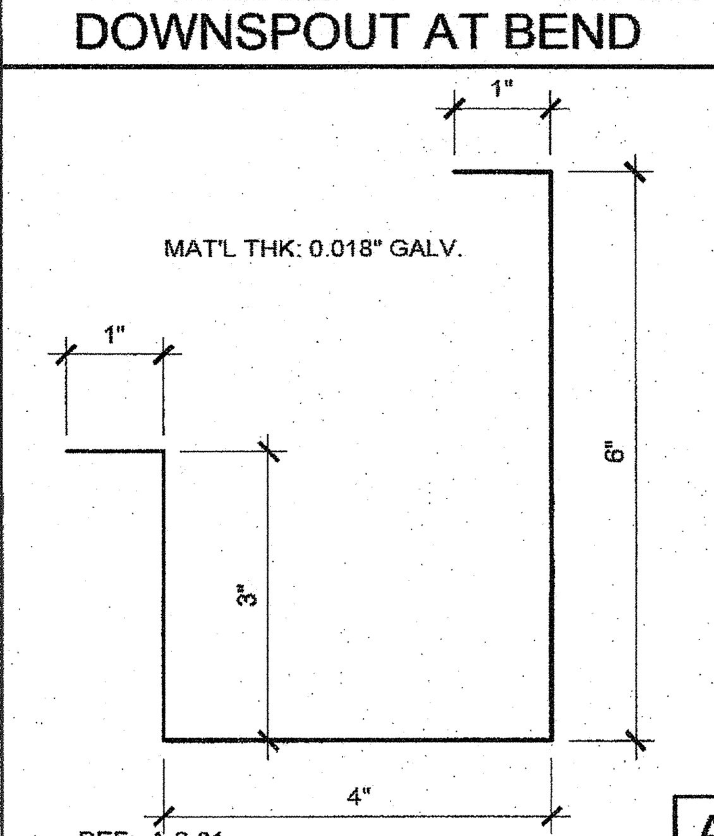
DOWNSPOUT AT BEND SCALE : 6" = 1'-0" 4

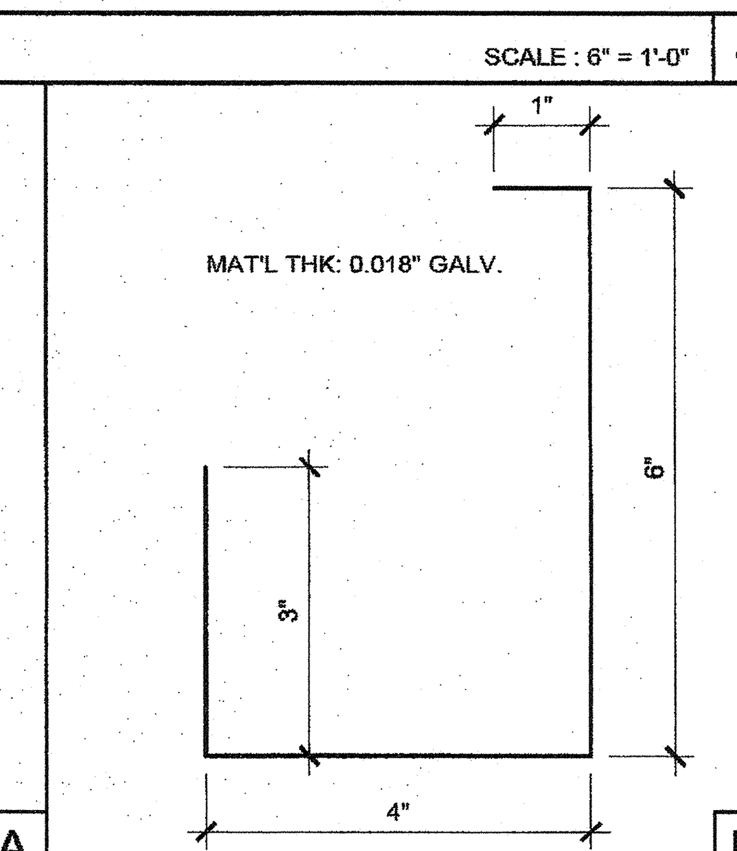


DOWNSPOUT AT ATTACHMENT SCALE : 3" = 1'-0" 20

NOT USED 15

NOT USED 10





GUTTER PROFILE SCALE : 6" = 1'-0" 5

SILVER CREEK INDUSTRIES, INC.

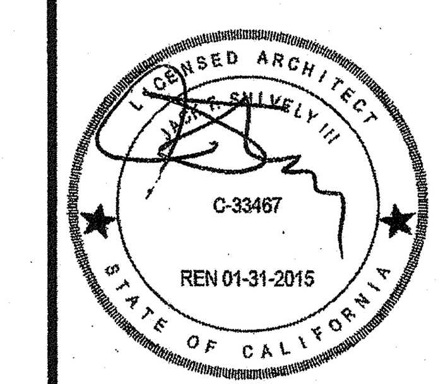
SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF DETAILS
0.030" STANDING SEAM ROOF DECK

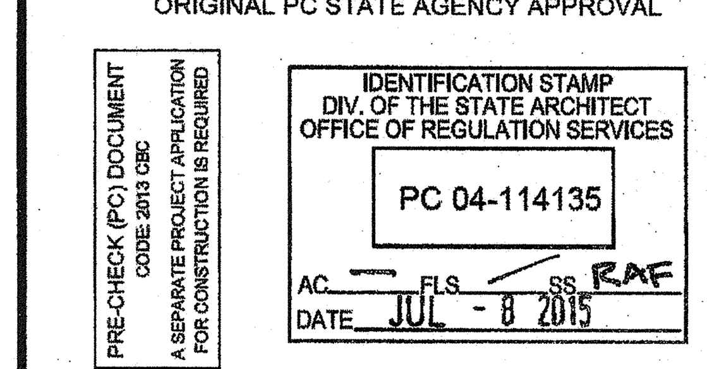


ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04-11651
AC FLS SS
DATE JUL 2 2 2015

ORIGINAL PC STATE AGENCY APPROVAL



REVISIONS

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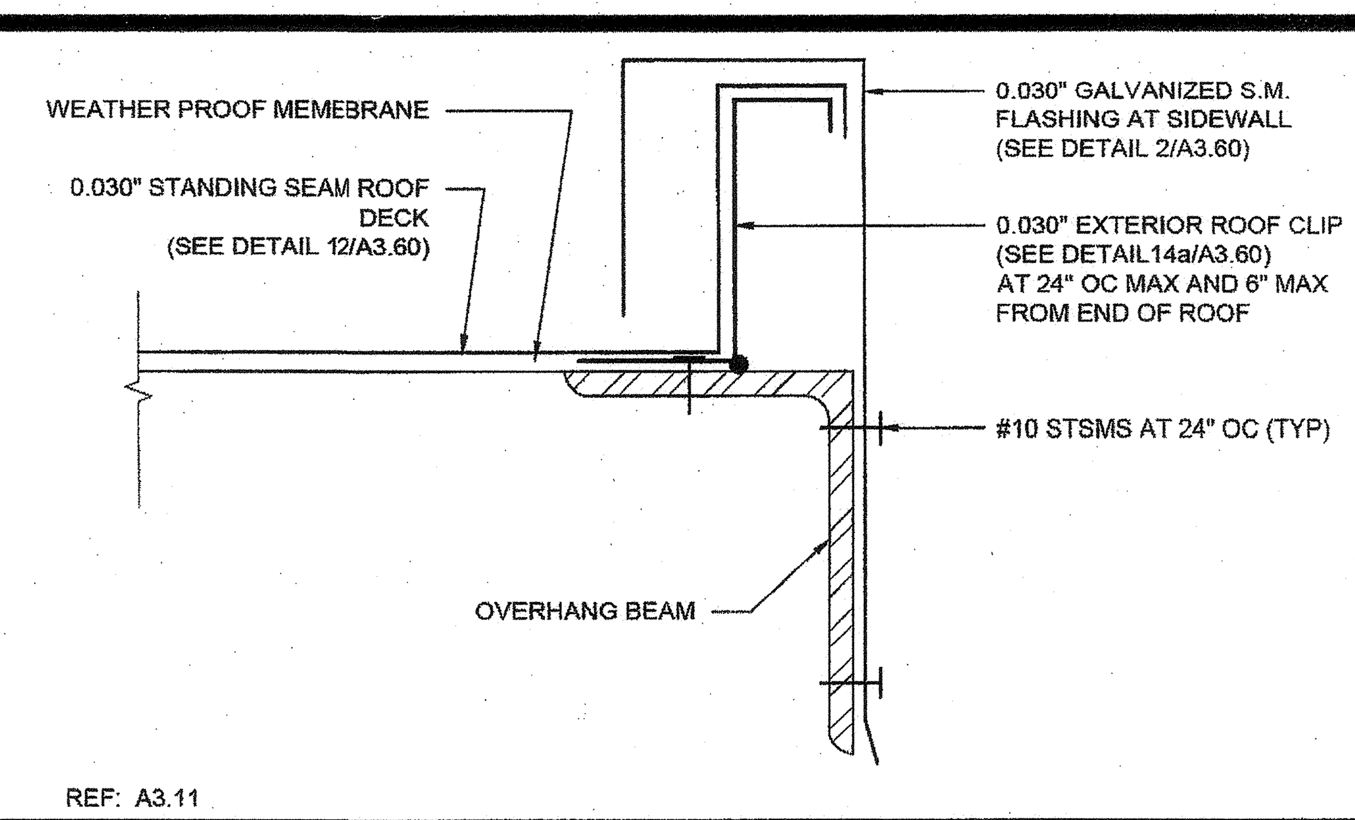
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

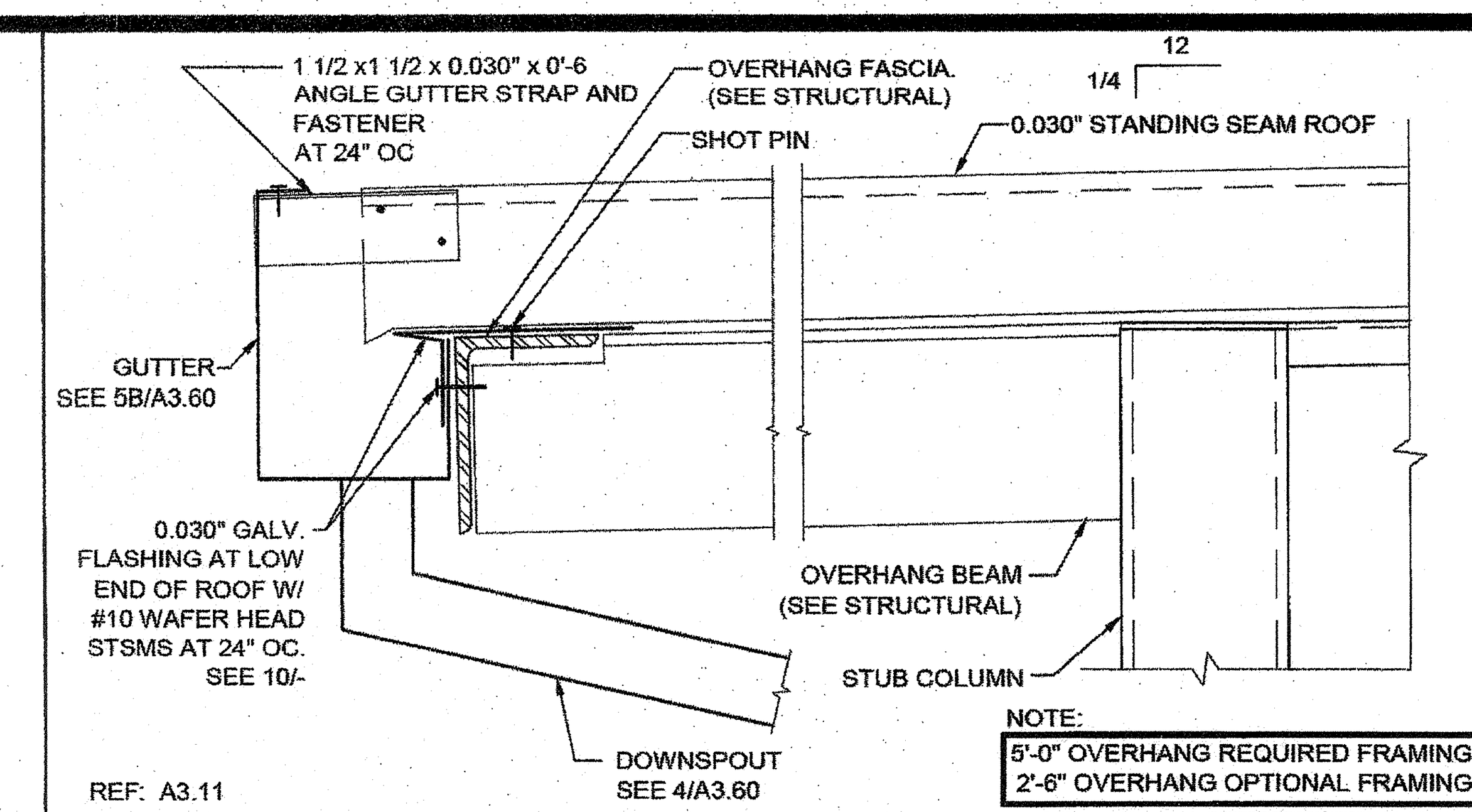
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-3.60

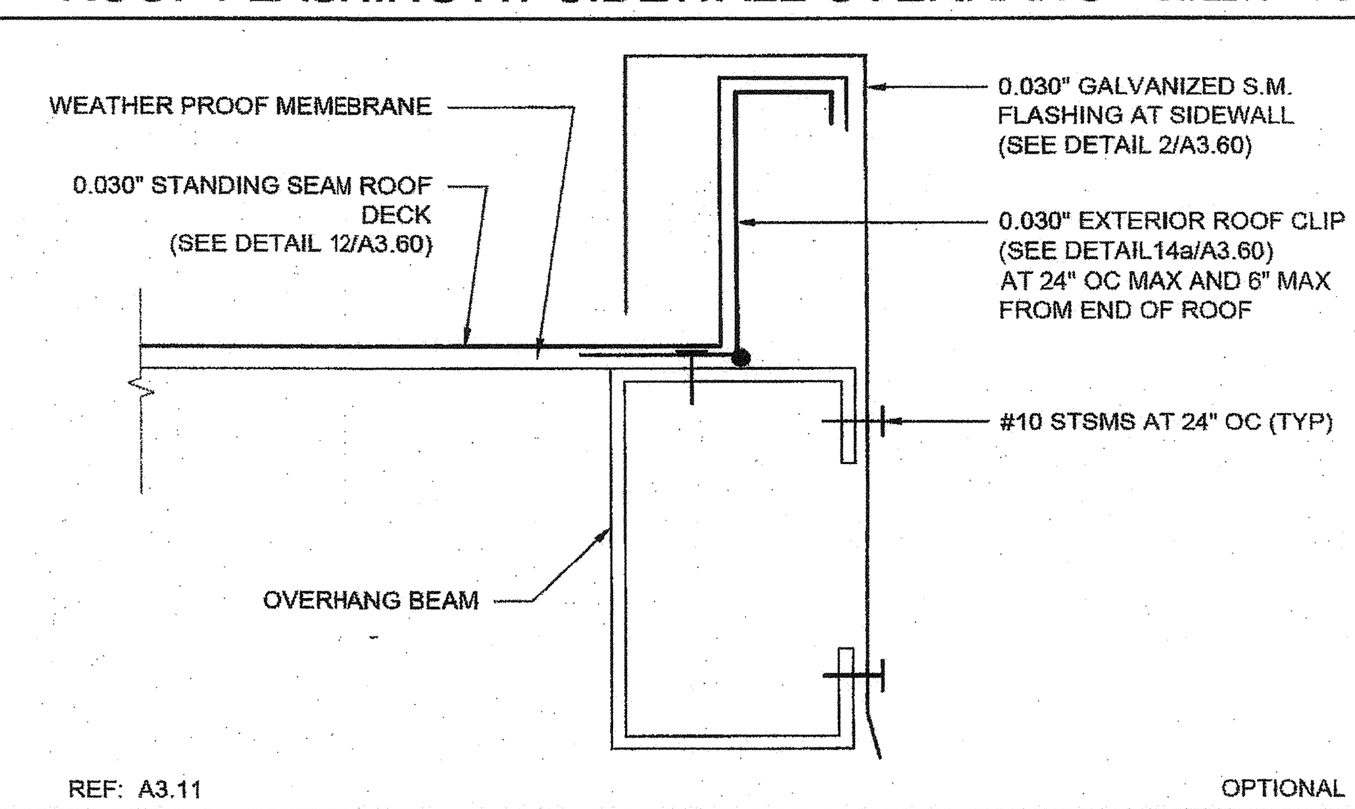


11 | ROOF FLASHING AT SIDEWALL OVERHANG SCALE : 6" = 1'-0" | 6

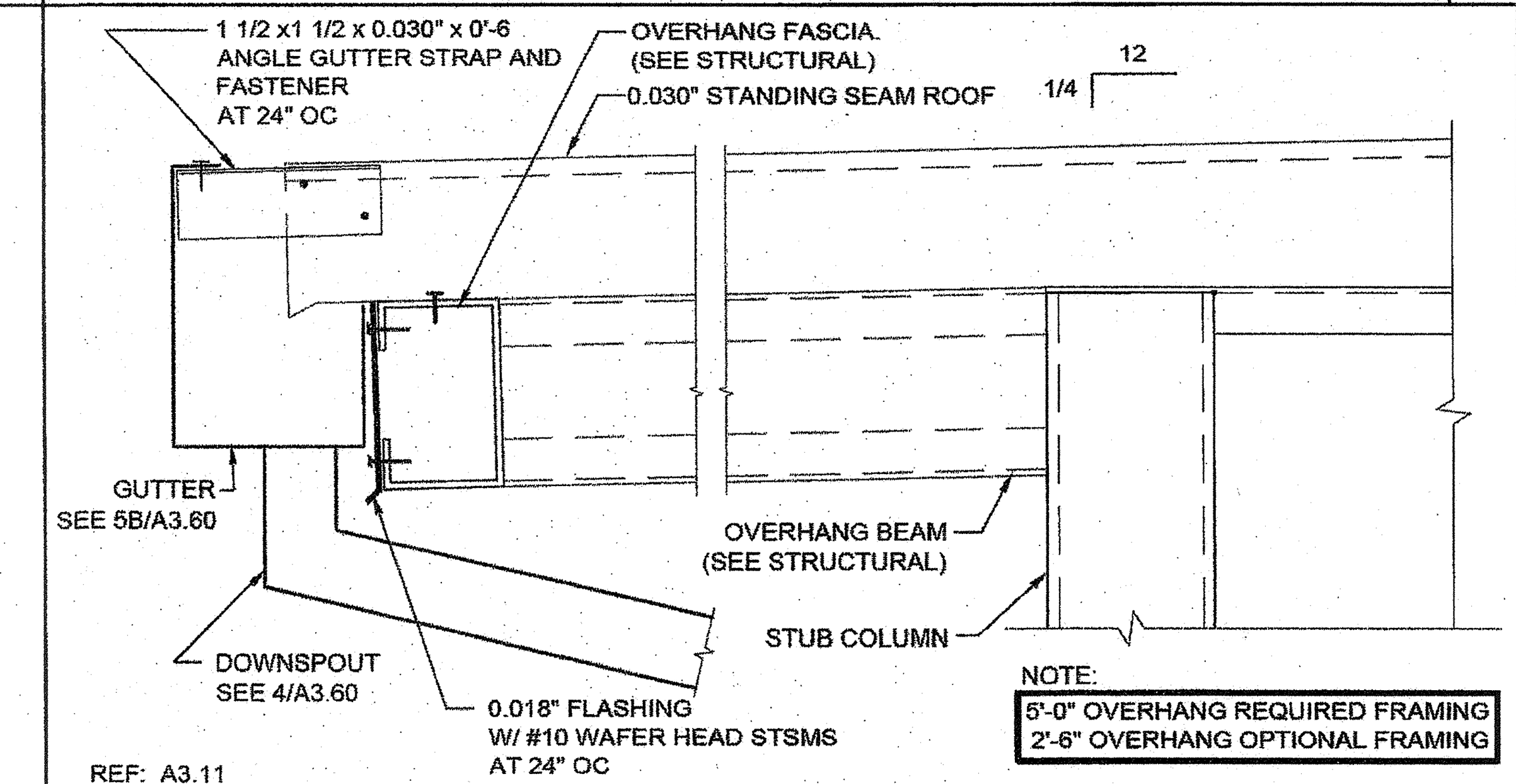


SECTION AT OVERHANG SCALE : 3" = 1'-0" | 1

16

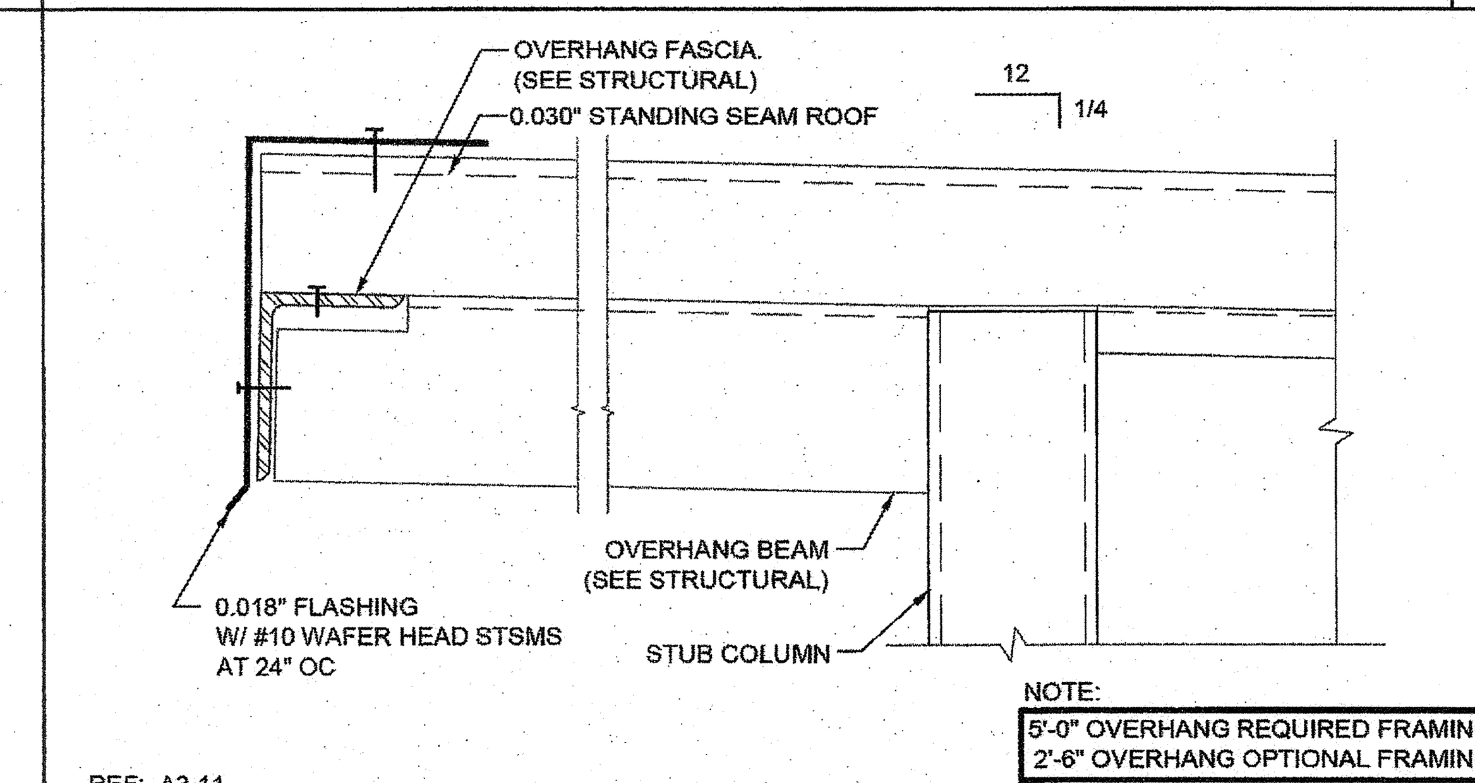


12 | ROOF FLASHING AT SIDEWALL OVERHANG SCALE : 6" = 1'-0" | 7

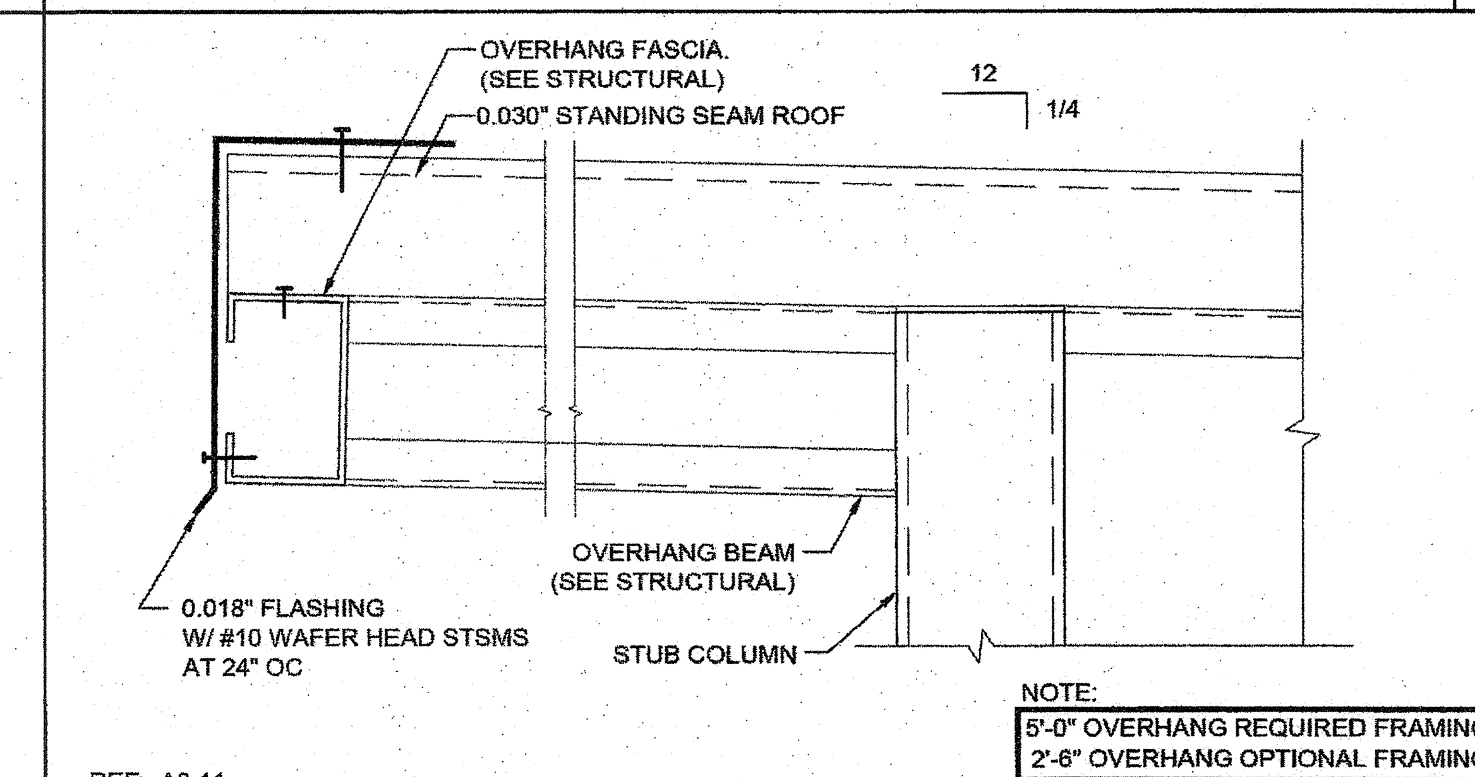


SECTION AT OVERHANG OPTIONAL SCALE : 3" = 1'-0" | 2

17



18 | 13 | 8 | SECTION AT OVERHANG - MONO SLOPE SCALE : 3" = 1'-0" | 3



19 | 14 | 9 | SECTION AT OVERHANG - MONO SLOPE OPT. SCALE : 3" = 1'-0" | 4

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FILE NO. 56-12
APPL 03-119782
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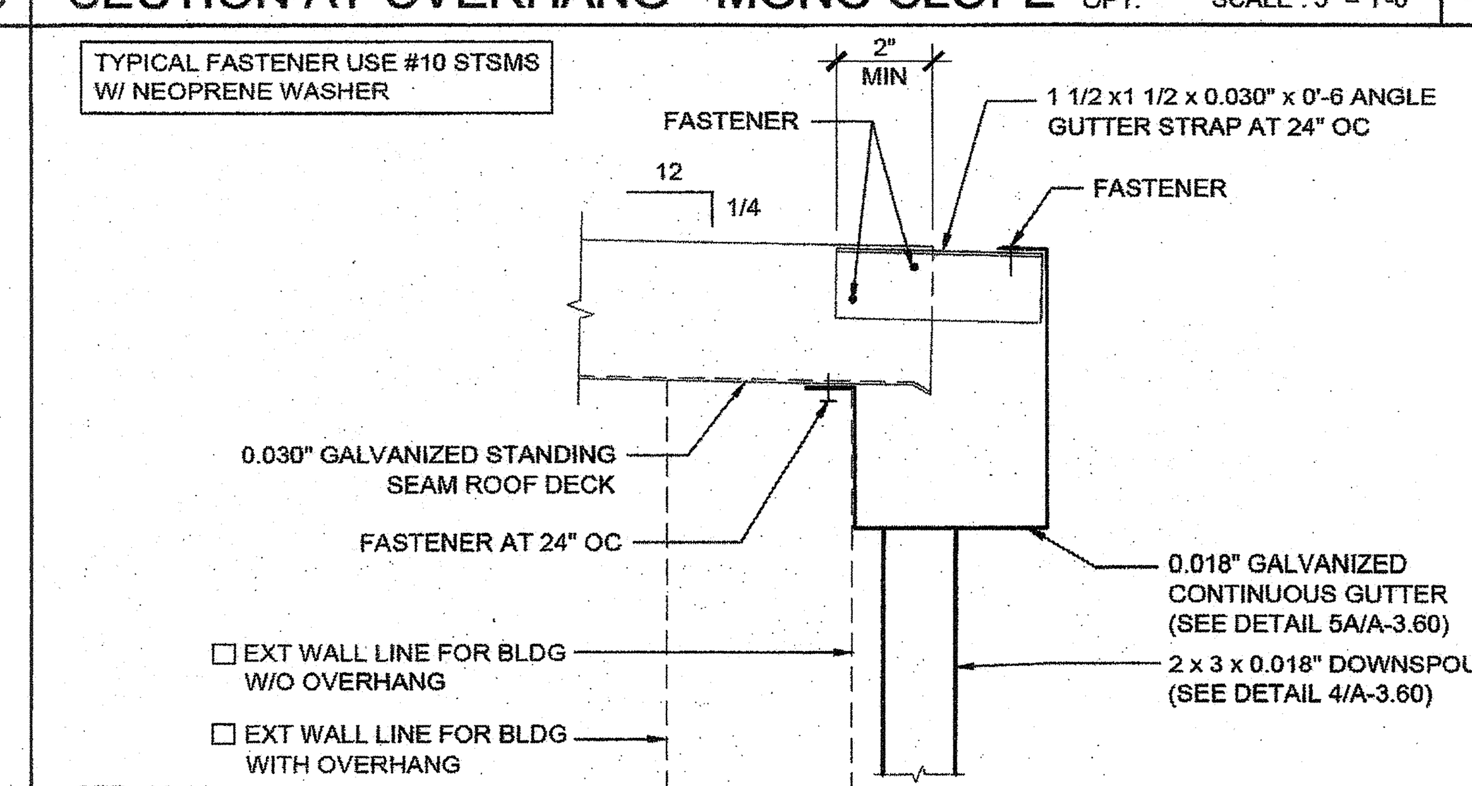
DATE 05/06/2019



20 | 15 | 10 | GUTTER AT REAR OVERHANG SCALE : 3"=1'-0" | 5

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF DETAILS
0.030" STANDING SEAM ROOF DECK

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116517
ACS ✓ FLS ✓ SS
DATE JUL 17 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS
DATE JUL - 8 2015

REVISIONS

1	
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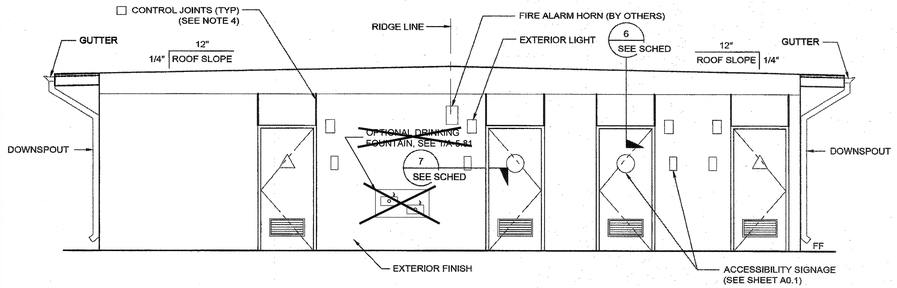
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

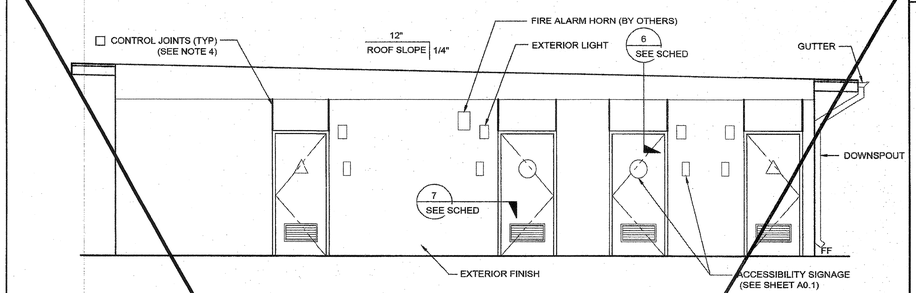
P.C. SHEET NUMBER

A-3.61



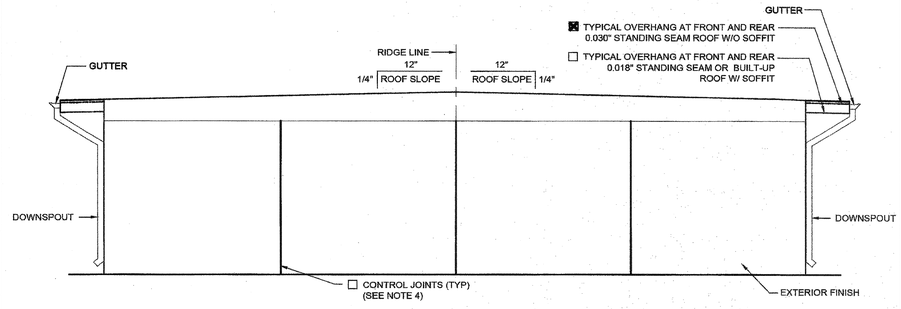
EXTERIOR ELEVATIONS - FRONT (MODEL C-2) - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 5



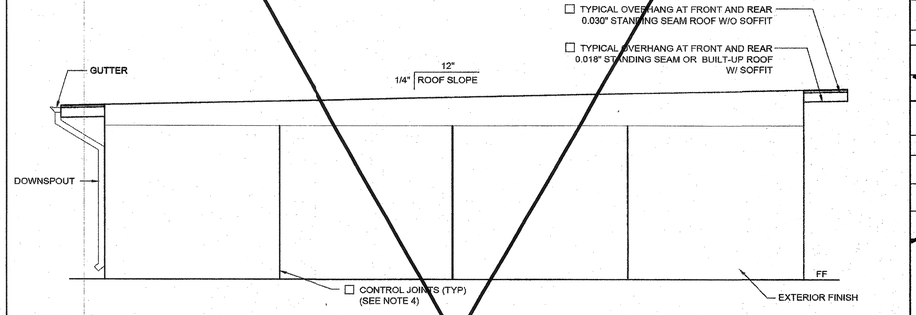
EXTERIOR ELEVATIONS - FRONT (MODEL C-2) - MONO SLOPE

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



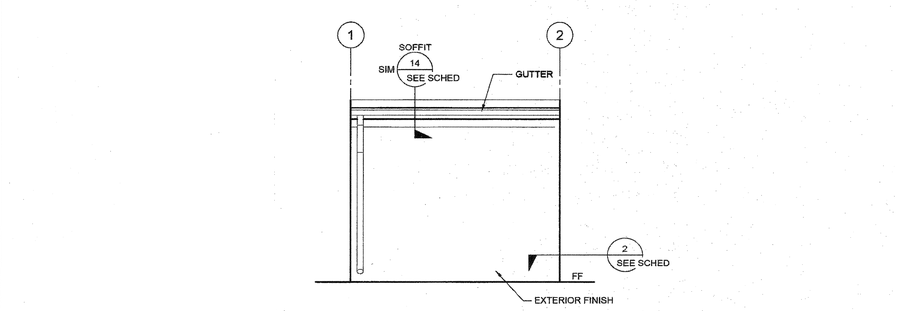
EXTERIOR ELEVATIONS - REAR (MODEL C-2) - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 6



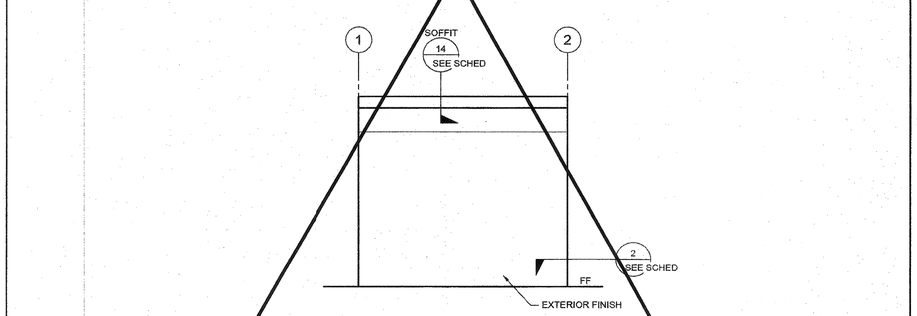
EXTERIOR ELEVATIONS - REAR (MODEL C-2) - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 2



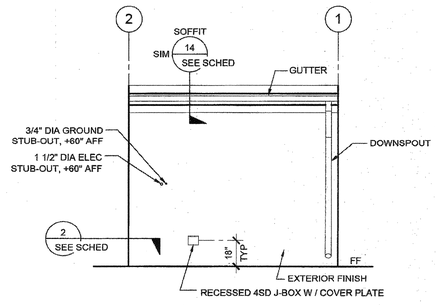
EXTERIOR ELEVATIONS - LEFT (MODEL C-2) - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 7



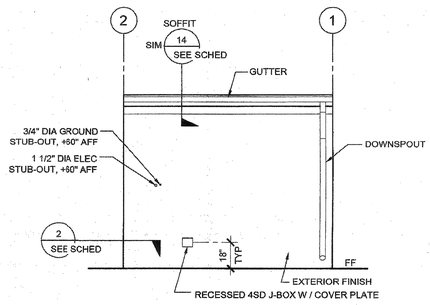
EXTERIOR ELEVATIONS - LEFT (MODEL C-2) - MONO SLOPE

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



EXTERIOR ELEVATIONS - RIGHT (MODEL C-2) - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 8



EXTERIOR ELEVATIONS - RIGHT (MODEL C-2) - MONO SLOPE

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

NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 8" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. HANDRAIL IS NOT ALLOWED AT PLASTER WALL OPTION WHERE RAMP & HANDRAIL IS AGAINST THE WALL. SEE DETAIL 1/R-1.02 FOR ALTERNATE RAMP APPLICATION.
6. EXTERIOR PROJECTIONS THAT ARE REQUIRED TO BE FIRE PROTECTED SHALL COMPLY W/ SECTION 705 AND 1406, 2013 CBC

DETAIL SCHEDULE

EXTERIOR FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

NOTE:
MINIMUM FOUNDATION HEIGHT TO BE 18" IF THE BUILDING CARRIES UNDER FLOOR PLUMBING (MANIFOLDS)

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FILE NO. 56-12
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SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-843-2211

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATION
12' X 40' - MODEL C-2
MONO / DUAL SLOPE

LICENSED ARCHITECT
JACK F. SHIVELY III
C-33497
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 119547
ACS ✓ FLS ✓ SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL
PRE-CHECK (PC) DOCUMENT
CONSTRUCTION NOT PERMITTED
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS
1
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8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER
A-4.06

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

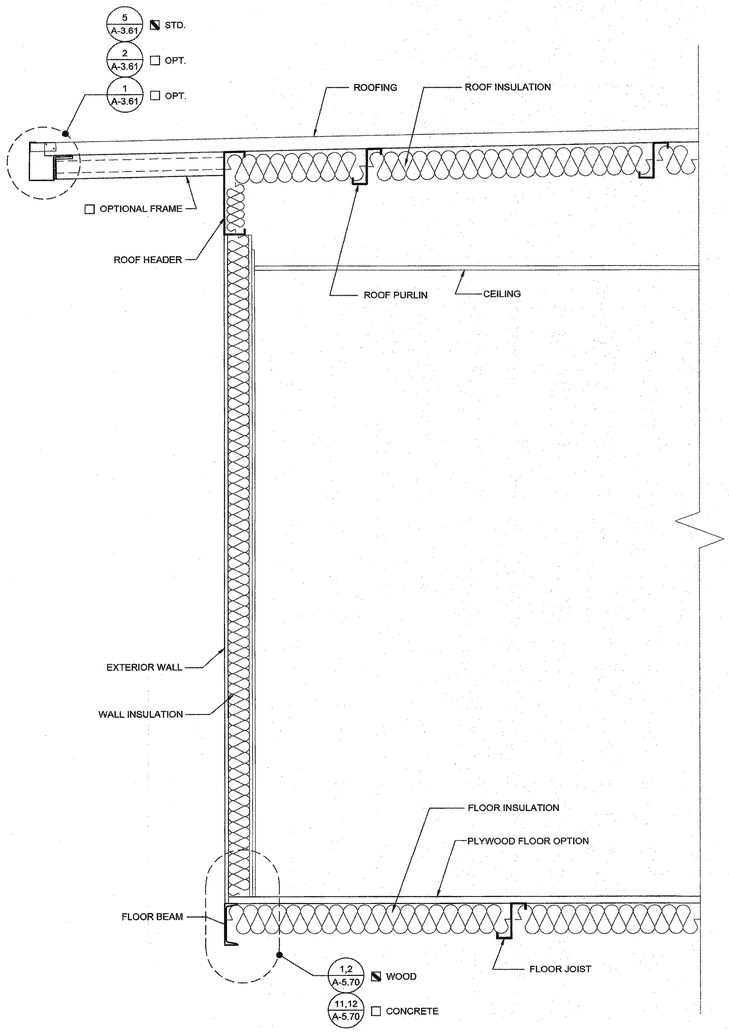
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

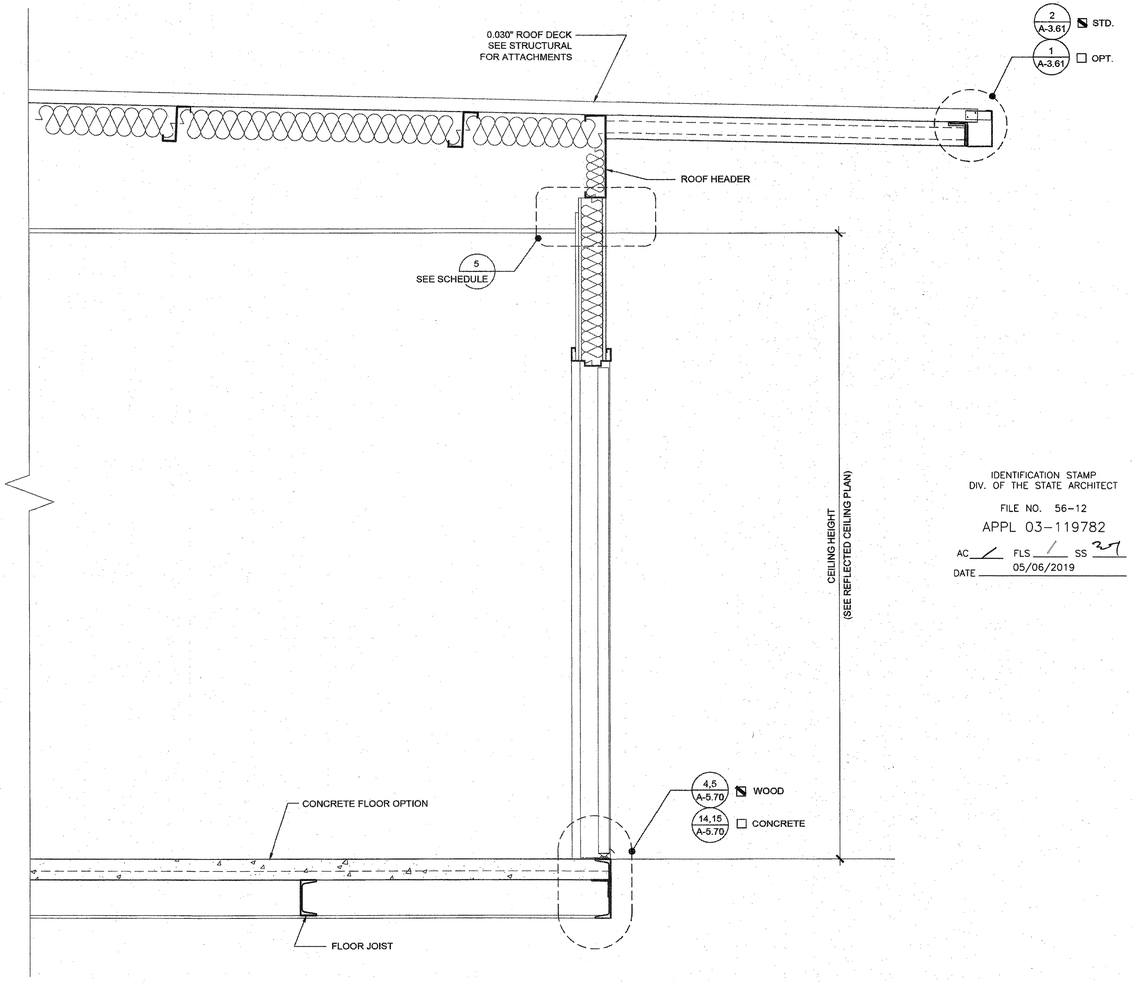
FLOOR OPTION

☒ WOOD FLOOR
☐ CONCRETE FLOOR

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.





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FILE NO. 56-12
APPL 03-119782
AC ___ FLS ___ SS ___
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CROSS SECTION
DUAL SLOPE
.030 ROOF DECK

LICENSED ARCHITECT
ANDREW T. SHIVELY III
C-33457
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 119782
AC ___ FLS ___ SS ___
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL
PRE-CHECK (PC) DOCUMENT
CONSTRUCTION NOT ALLOWED
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ___ FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS
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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

P.C. SHEET NUMBER
A-5.04

BUILDING SECTION
SCALE: 1" = 1'-0" 1

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

FLOOR OPTION

☒ WOOD FLOOR	
☐ CONCRETE FLOOR	

NOTES

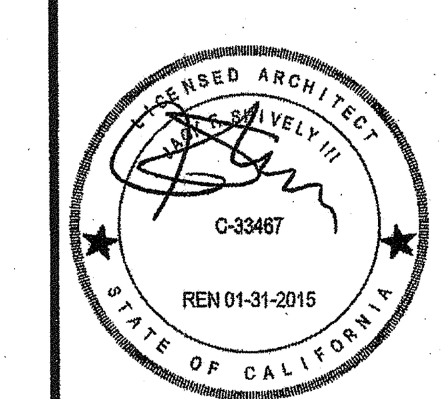
MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CROSS SECTION



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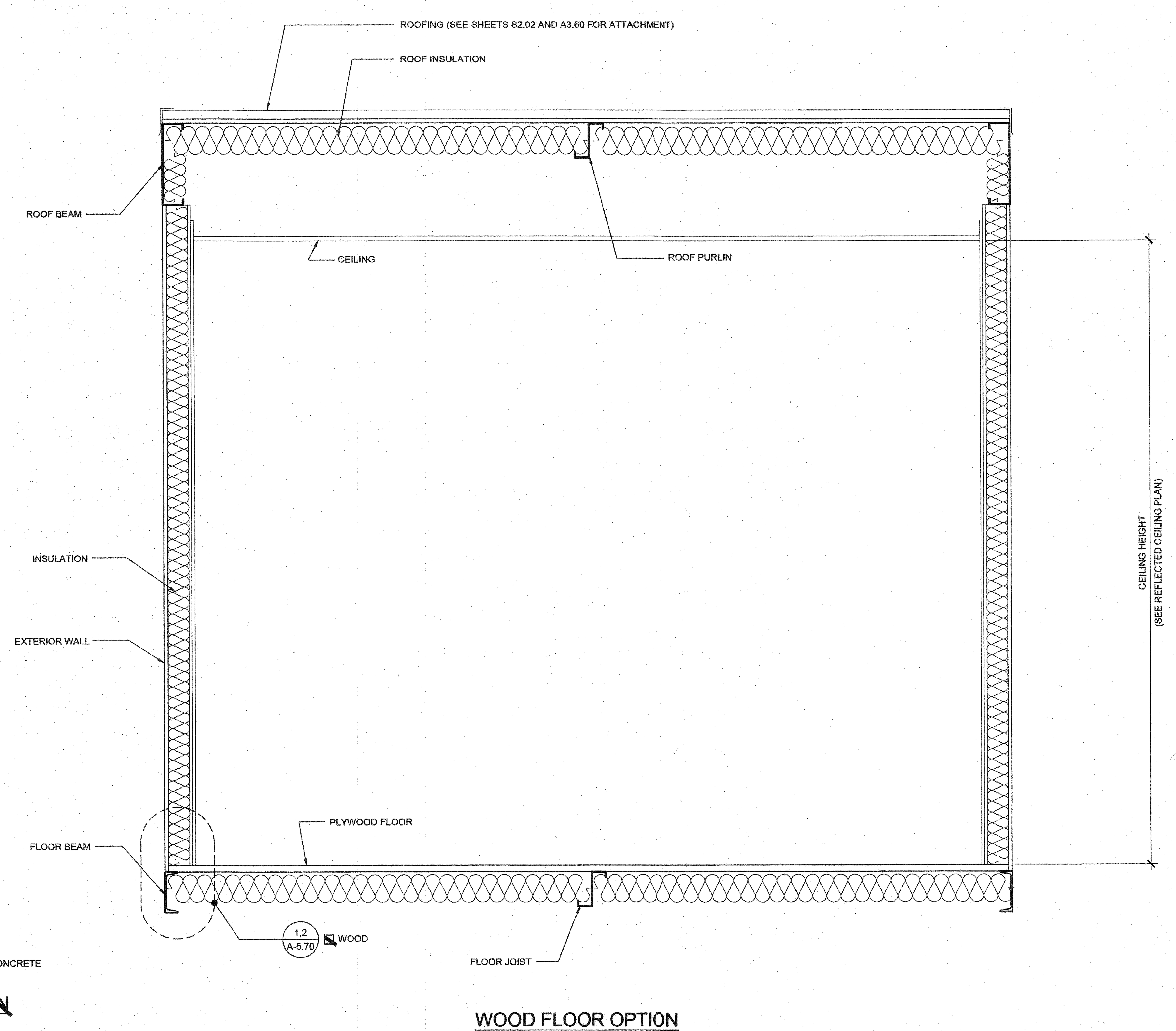
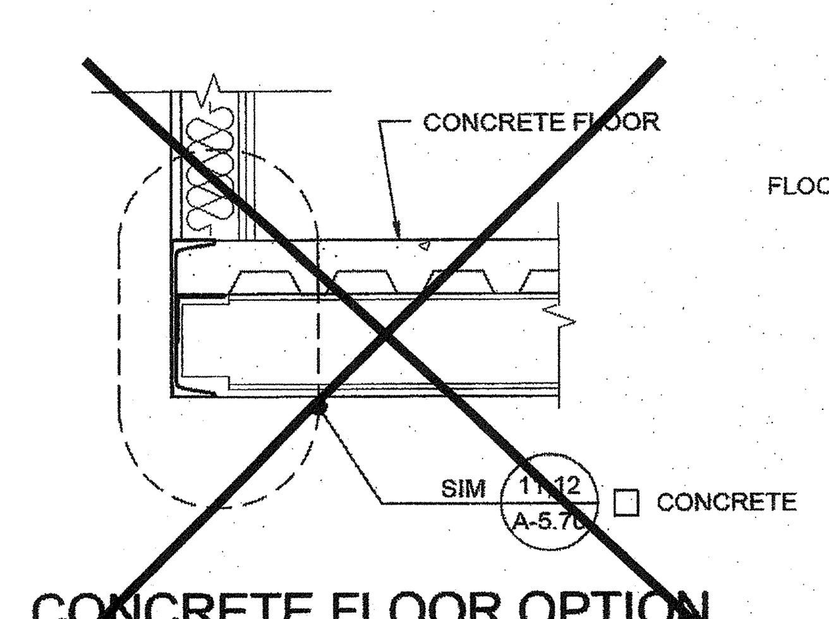
SUBMISSION DATE



WOOD FLOOR OPTION



CONCRETE FLOOR OPTION

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DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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REVISIONS

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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

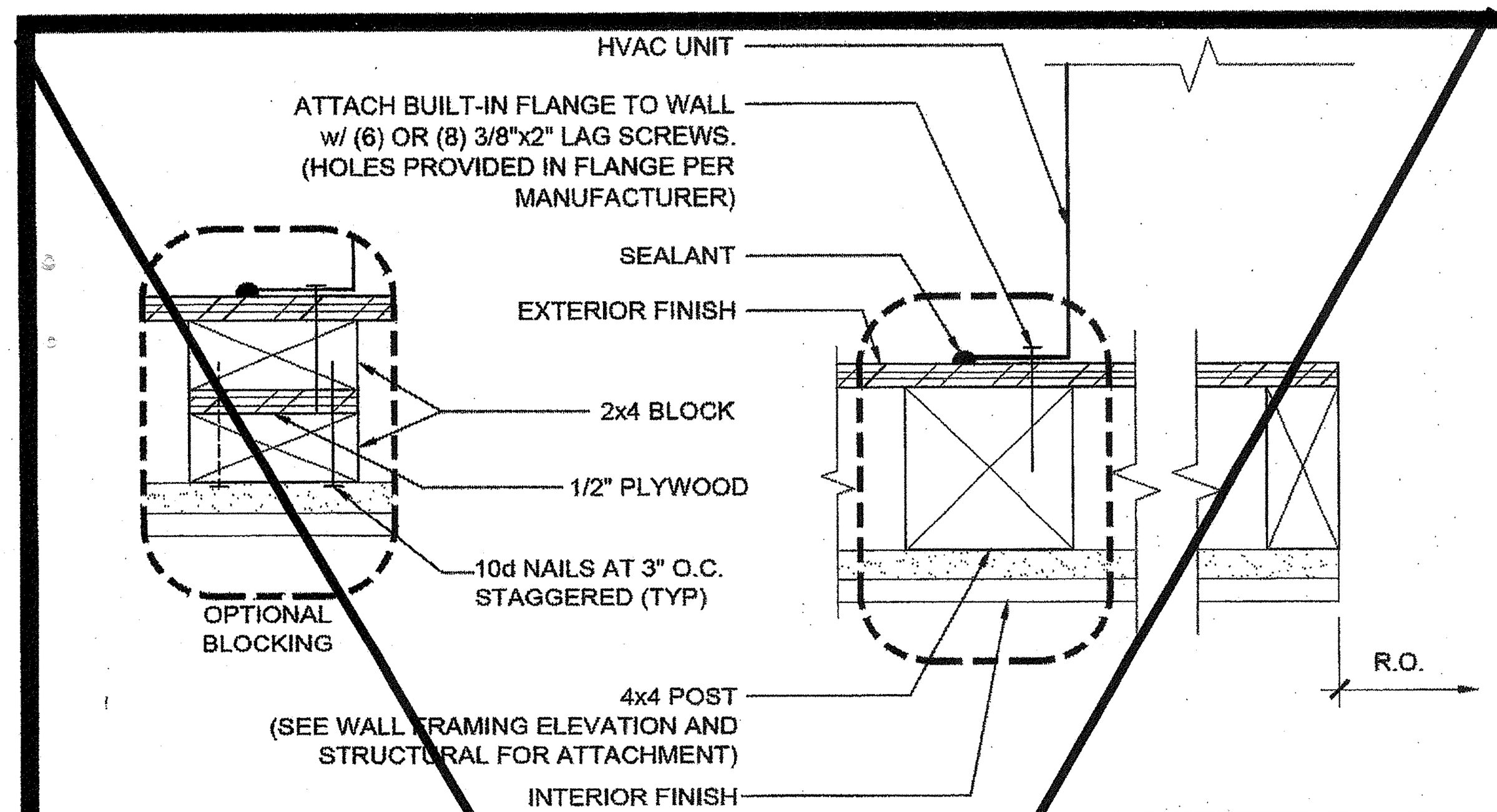
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

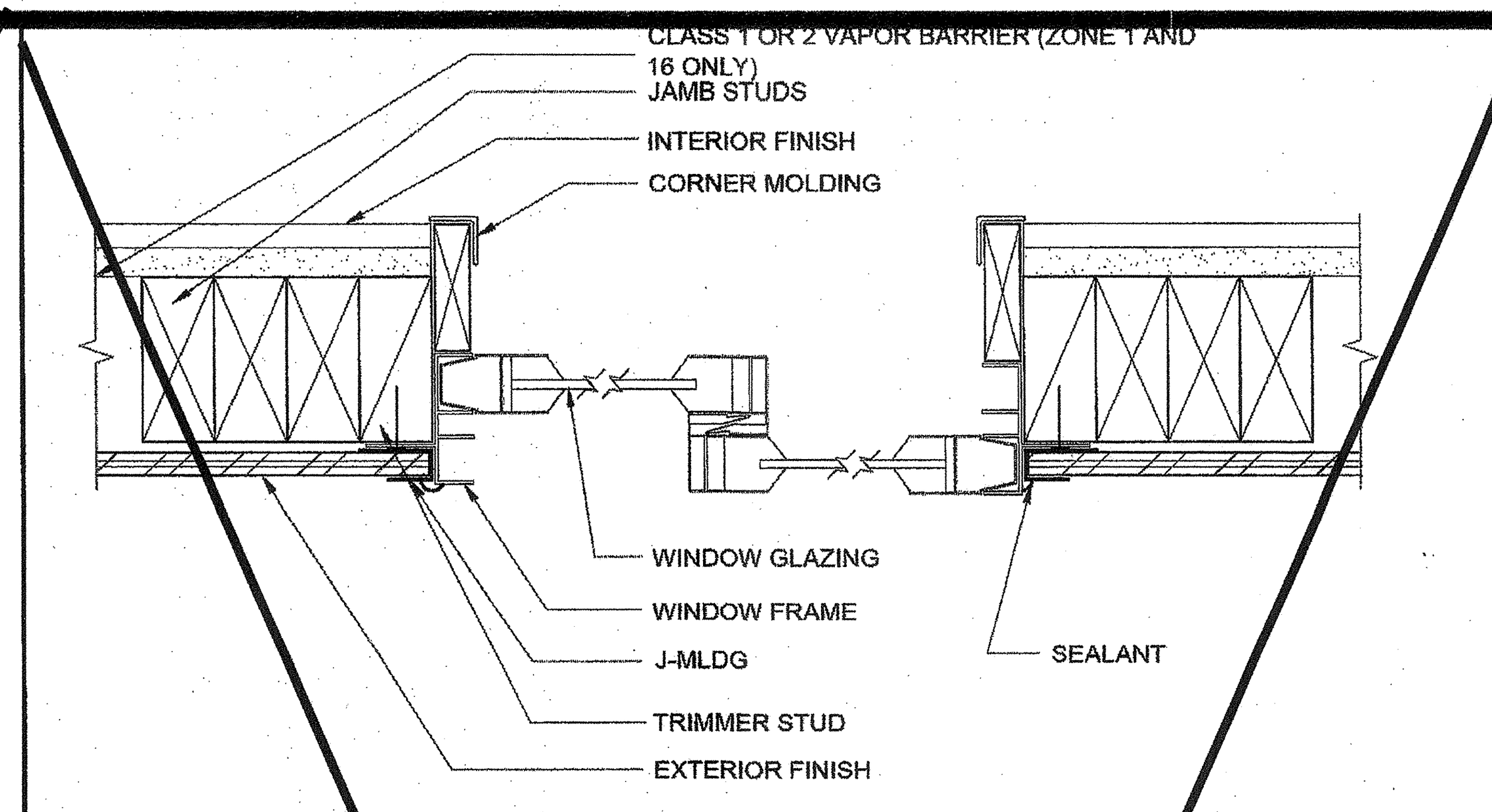
A-5.05

BUILDING SECTION

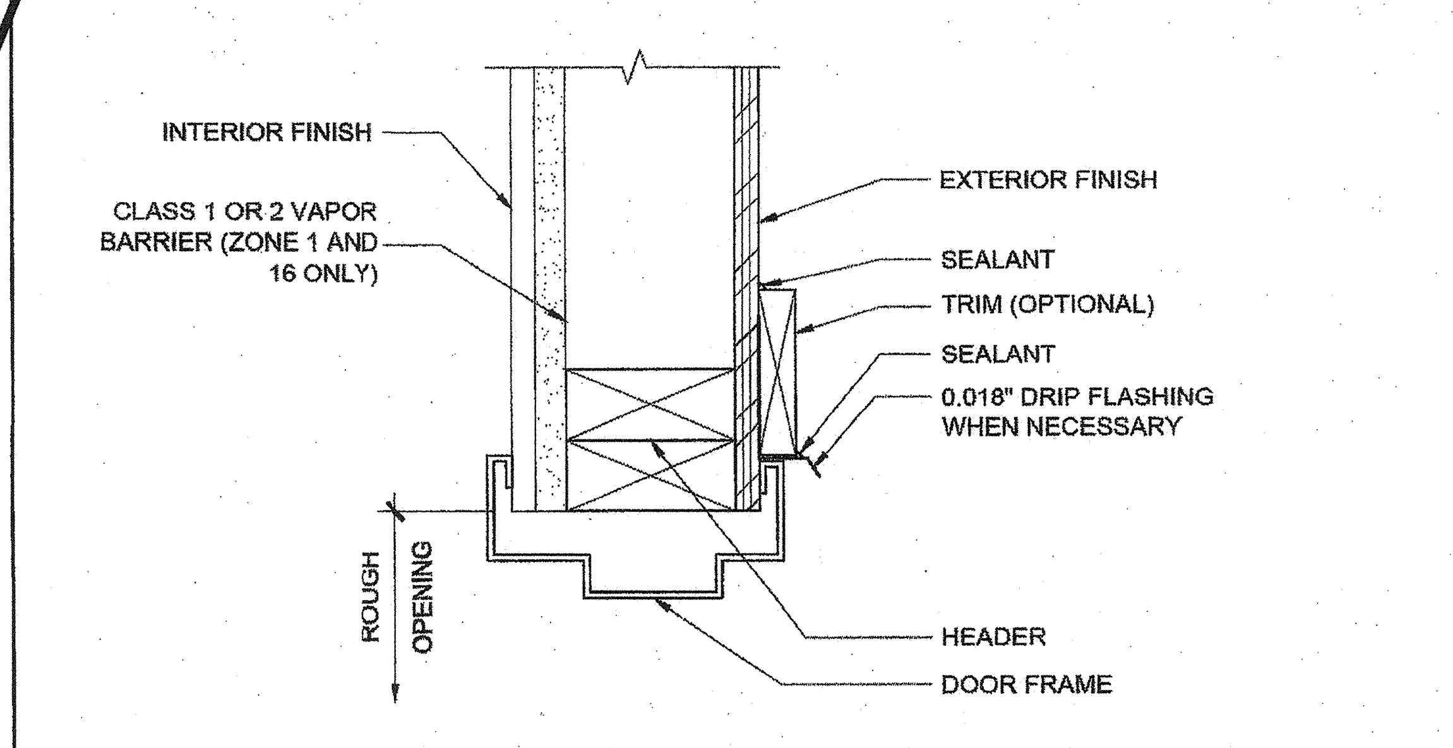
SCALE: 1" = 1'-0" 1



HVAC MOUNT AT JAMBS SCALE : 3"=1'-0" 16

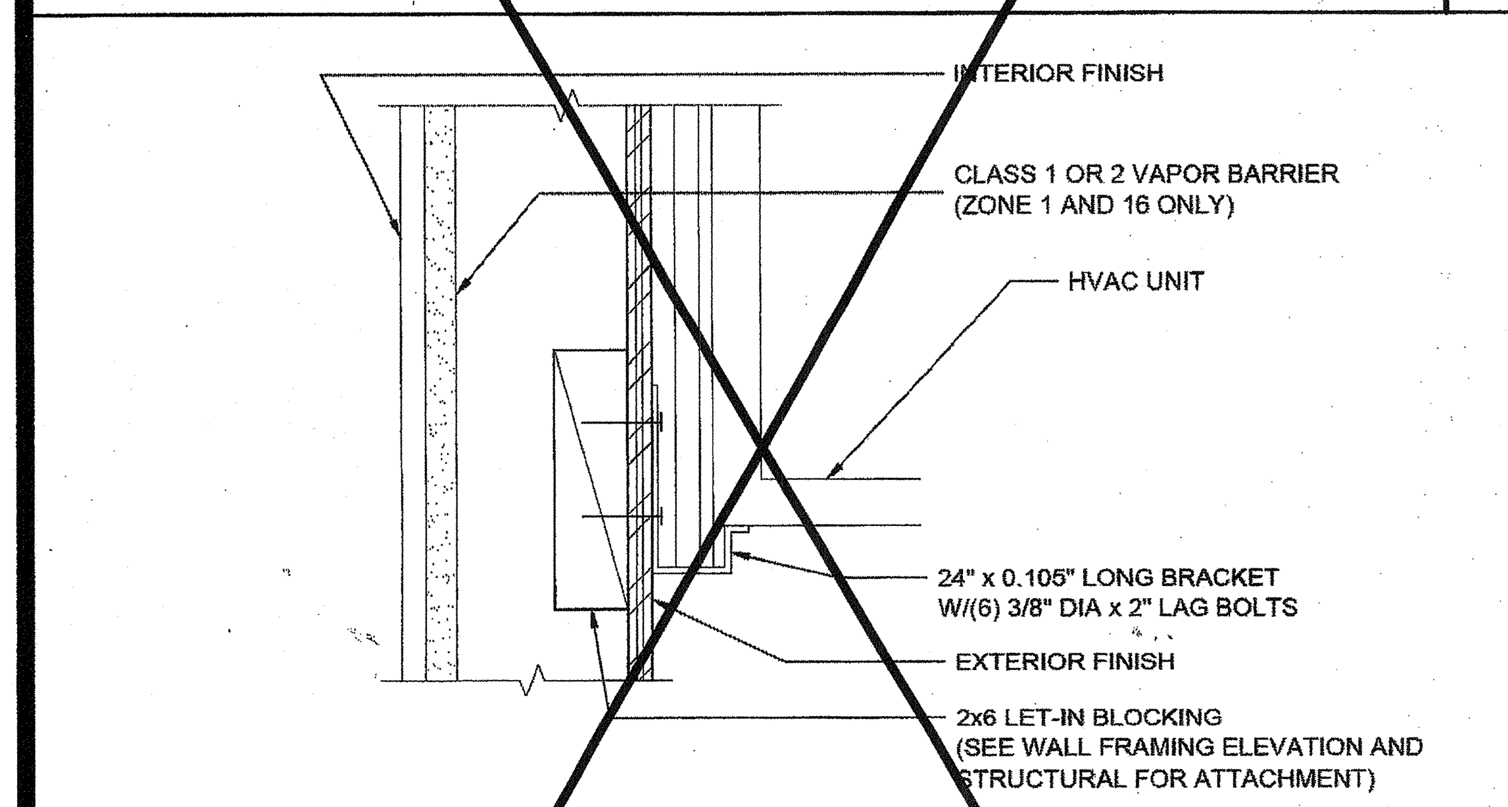


WINDOW SECTION AT JAMBS SCALE : 3"=1'-0" 11

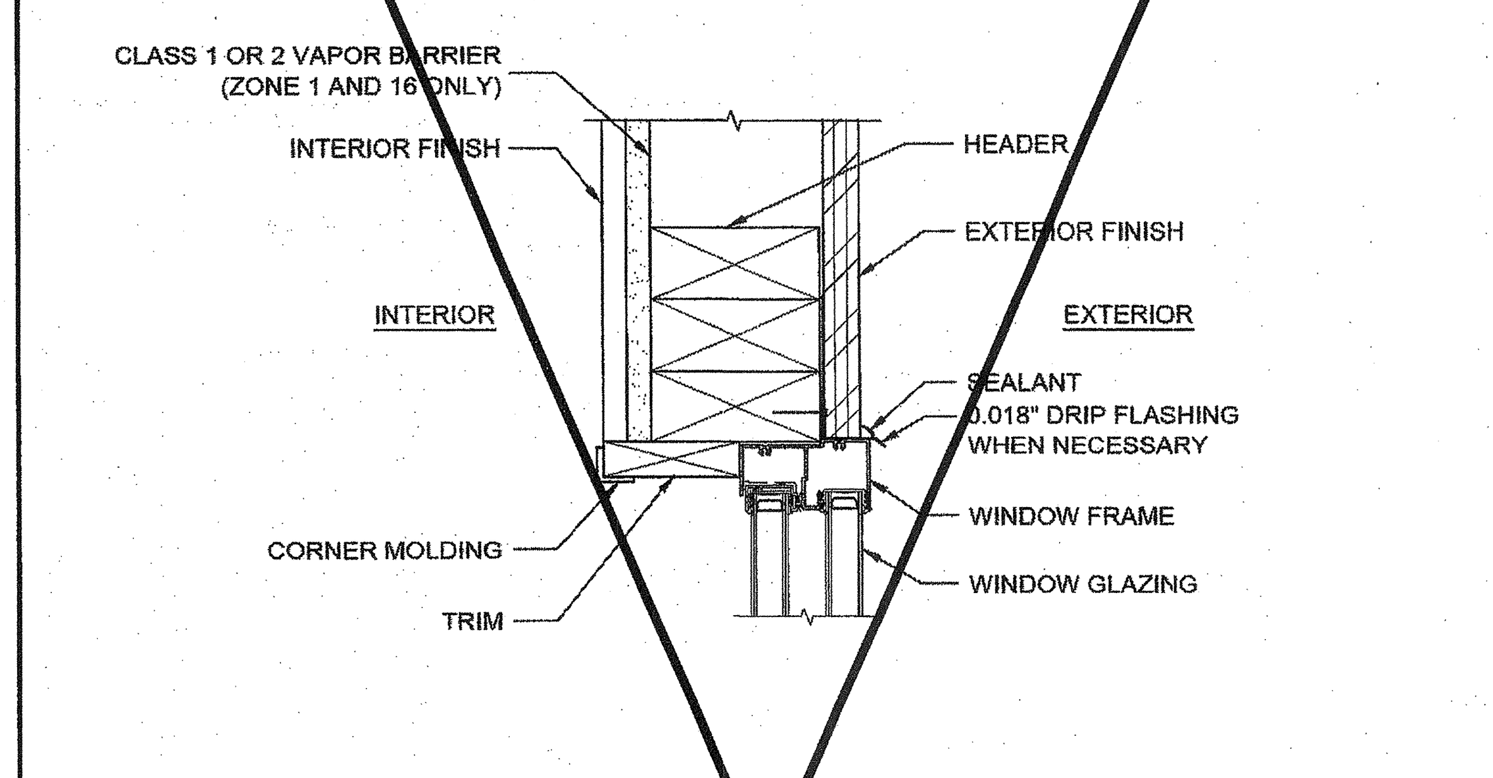


EXTERIOR DOOR HEADER SCALE : 3"=1'-0" 6

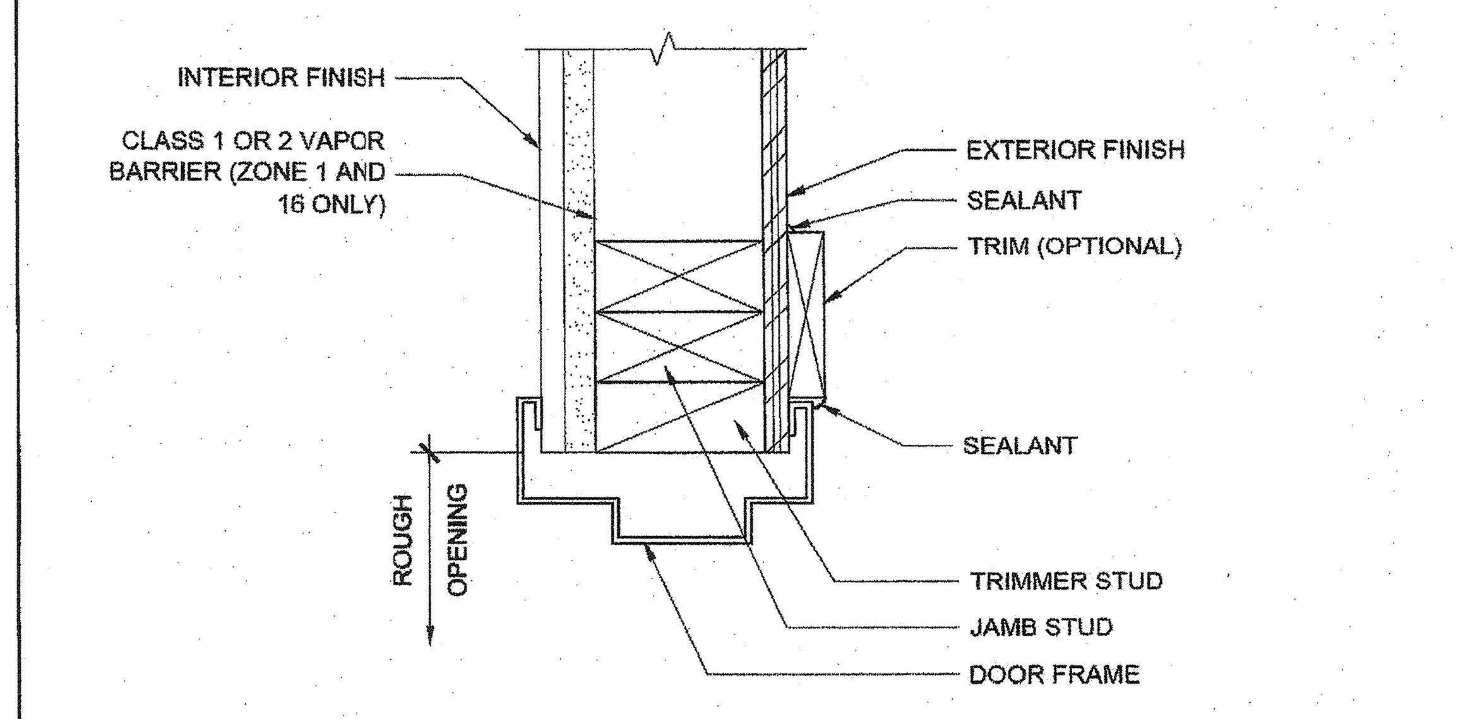
NOT USED 1



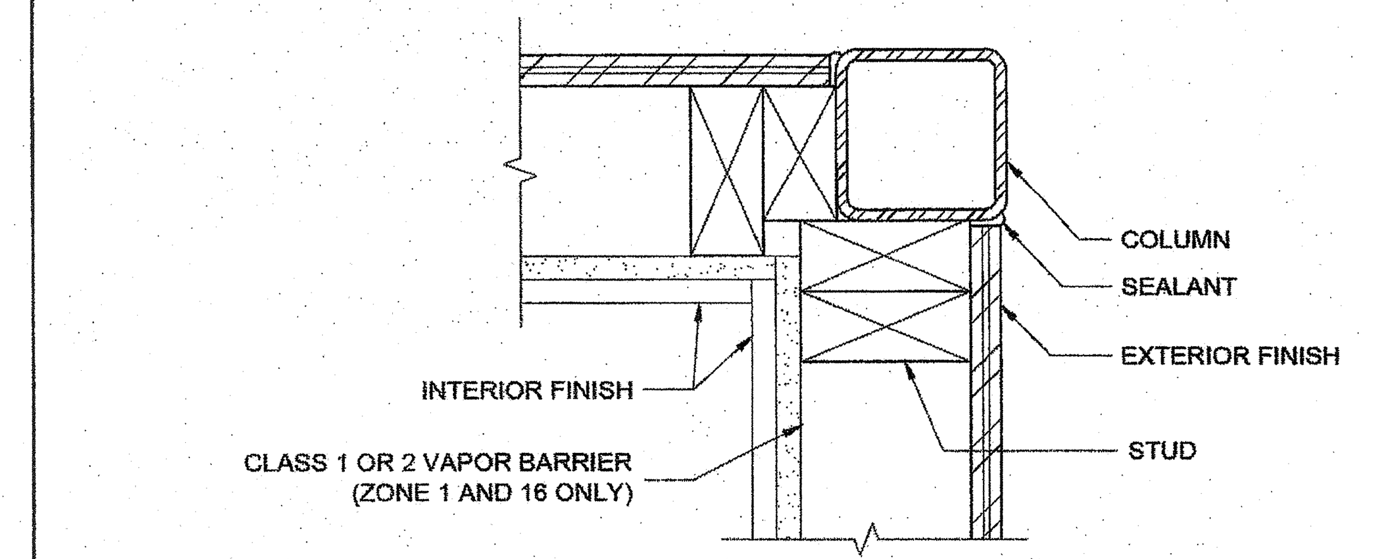
HVAC UNIT AT BOTTOM SCALE : 3"=1'-0" 17



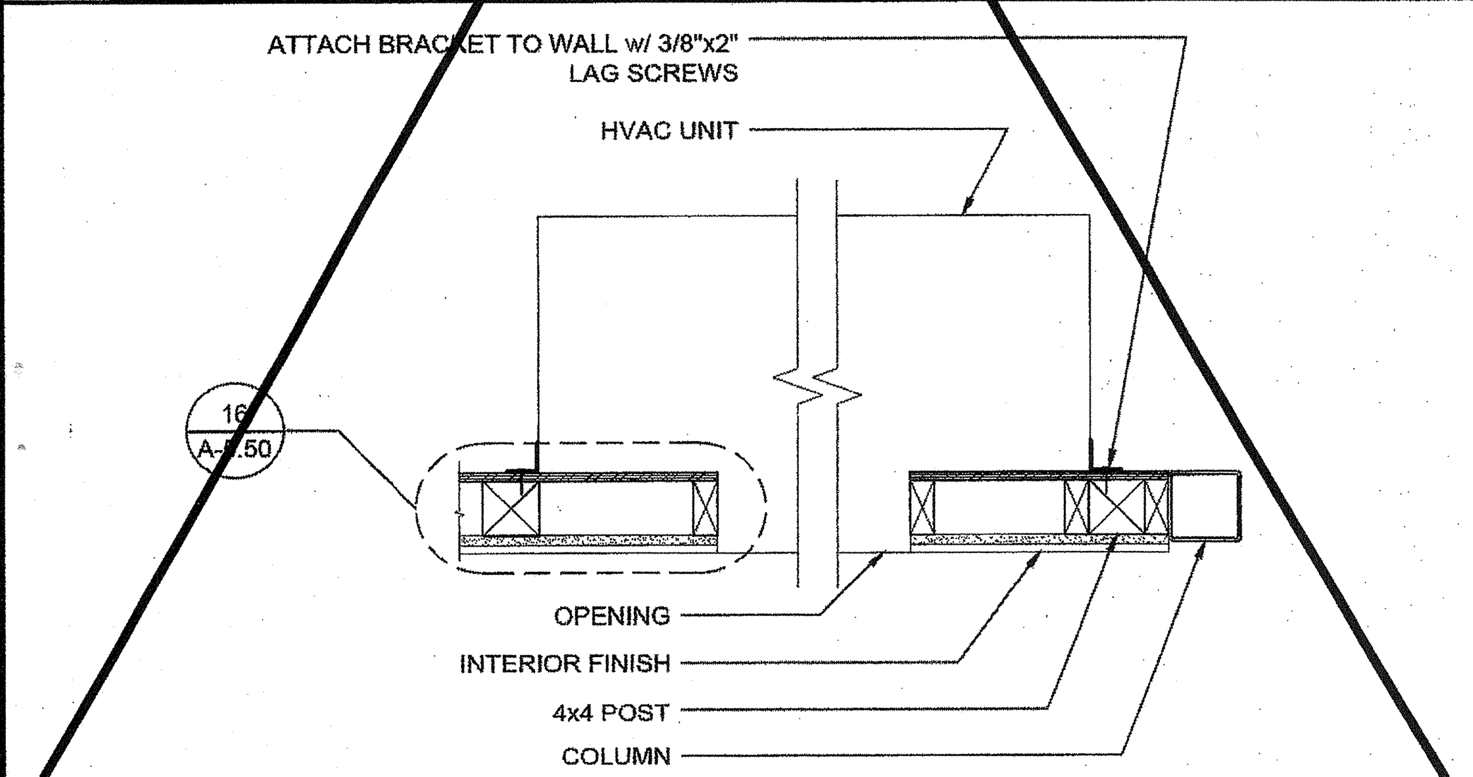
WINDOW HEADER SCALE : 3"=1'-0" 12



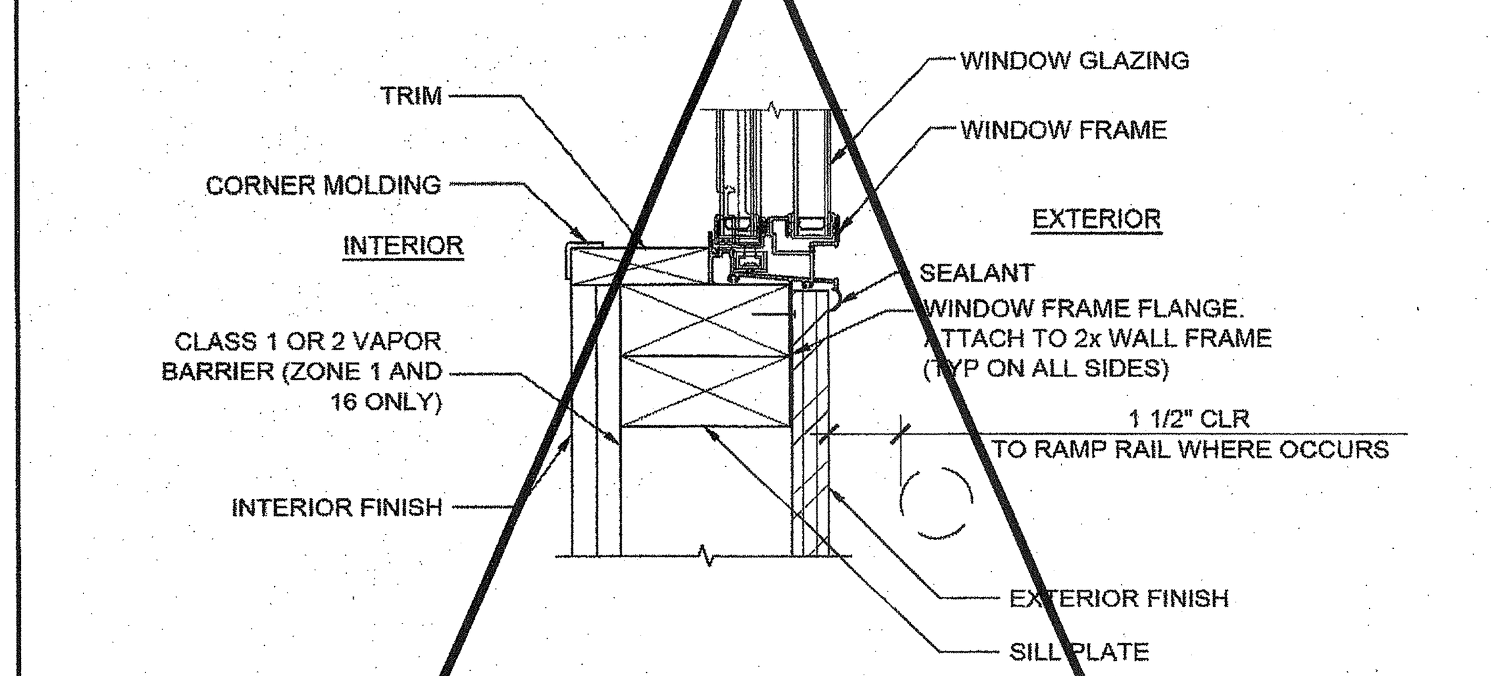
EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 7



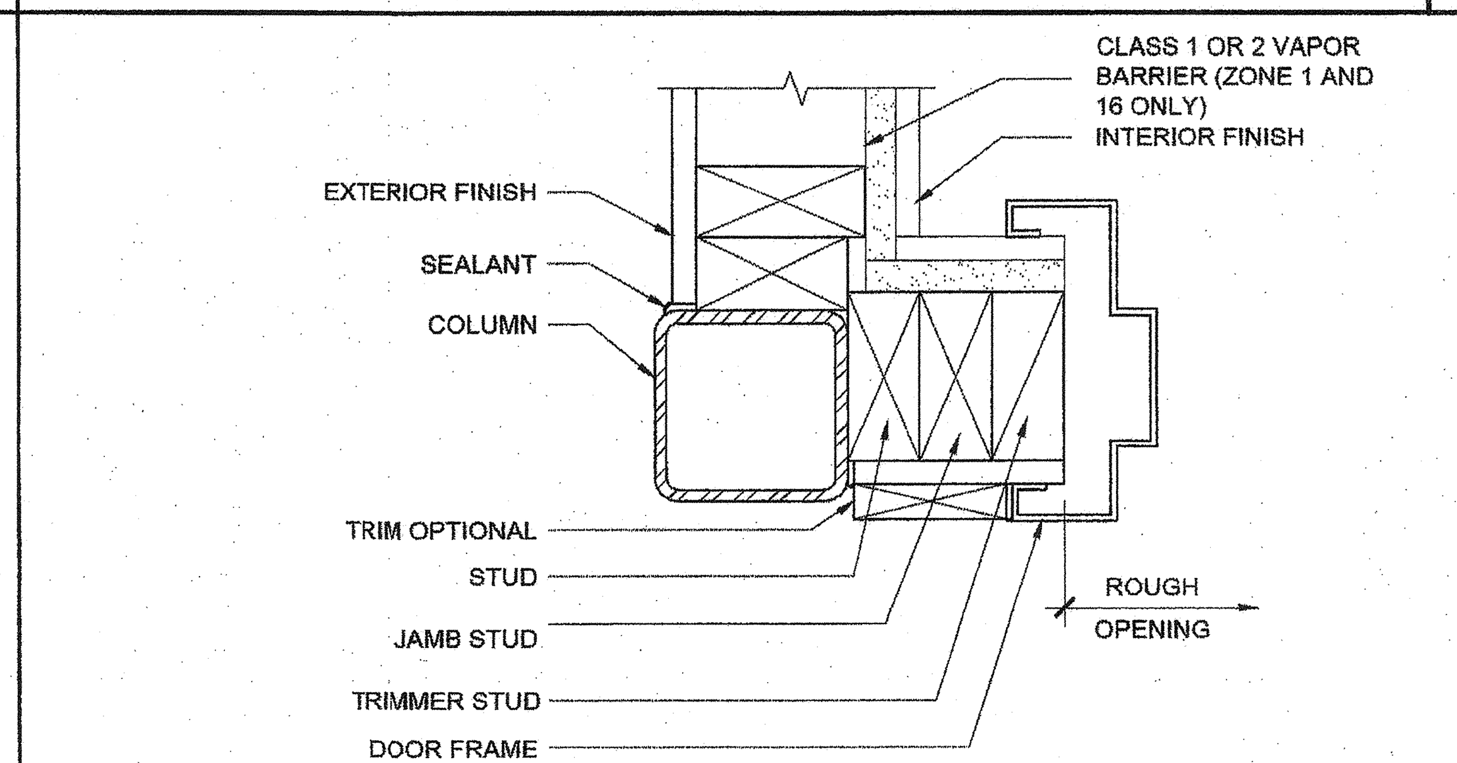
COLUMN AT CORNER SCALE : 3"=1'-0" 2



HVAC UNIT (PLAN) SCALE : 1"=1'-0" 18



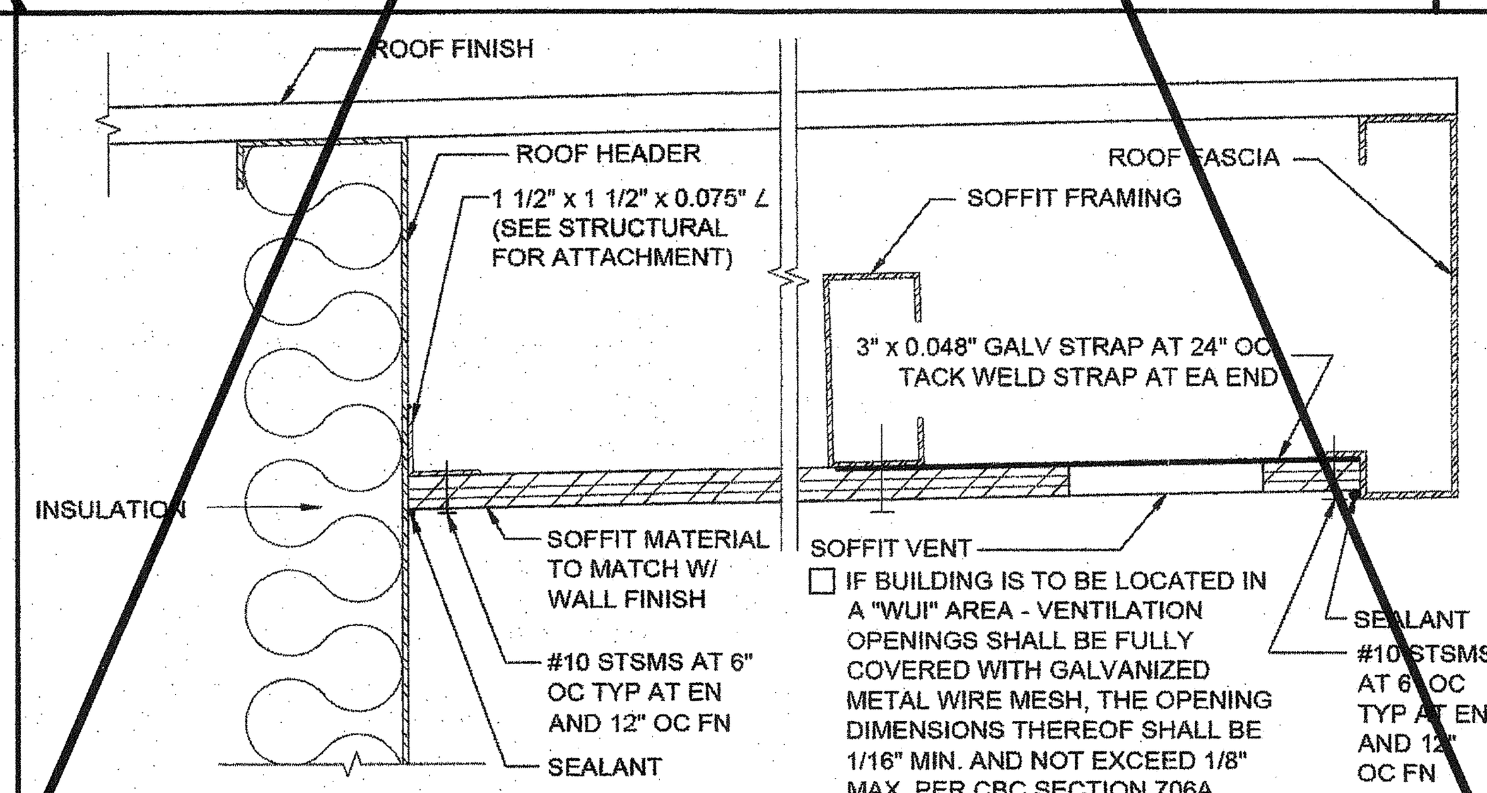
WINDOW SILL SCALE : 3"=1'-0" 13



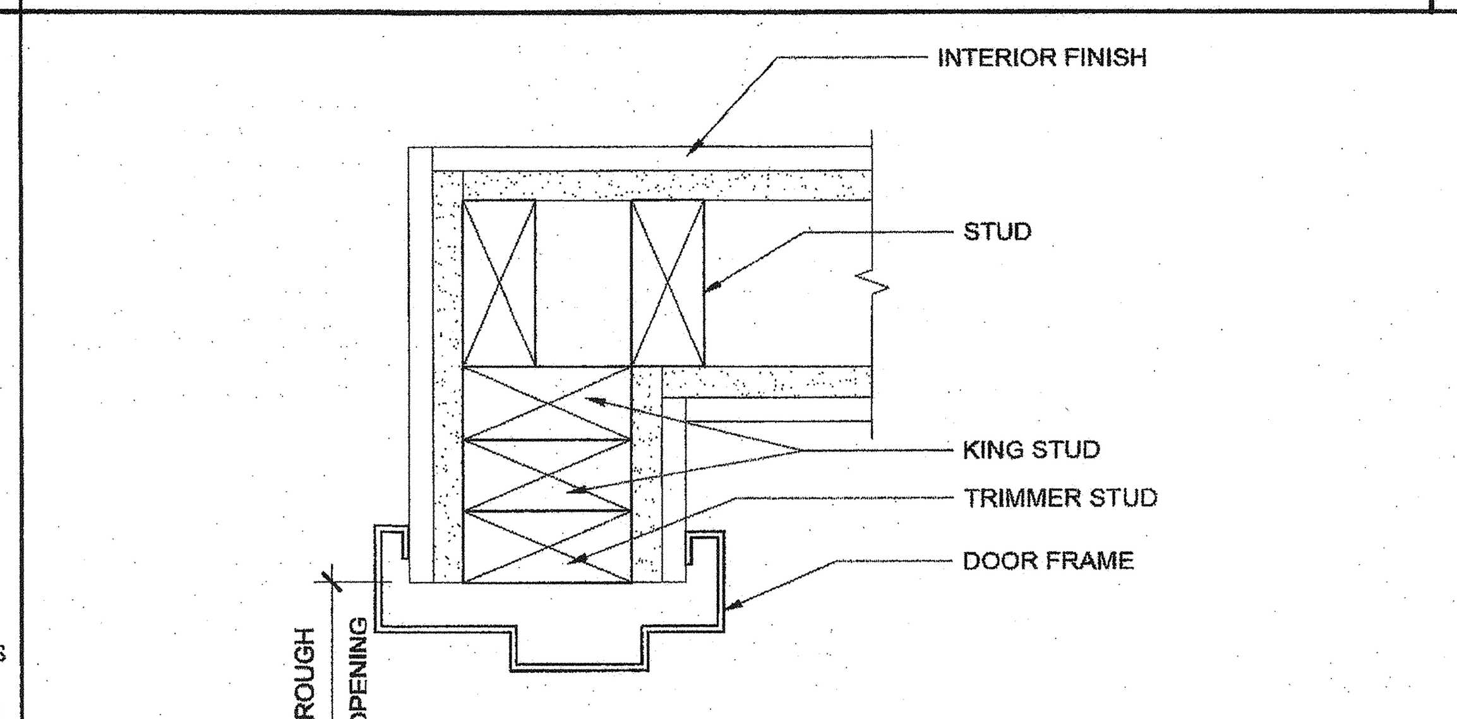
EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 8

NOT USED 3

NOT USED 19



SOFFIT AT ROOF HEADER WITH VENT SCALE : 3" = 1'-0" 14



INTERIOR DOOR JAMB SCALE : 3"=1'-0" 9

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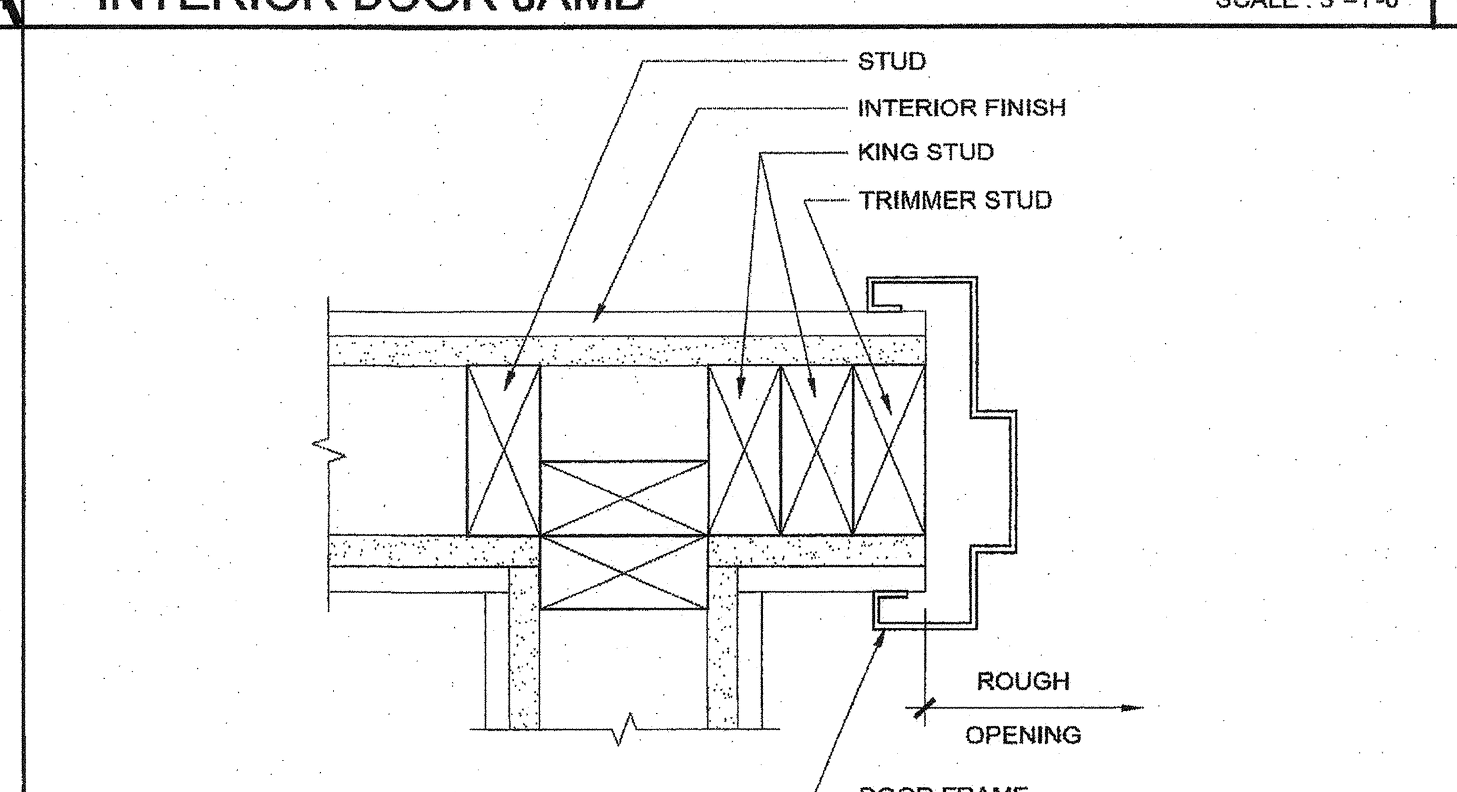
DATE 05/06/2019

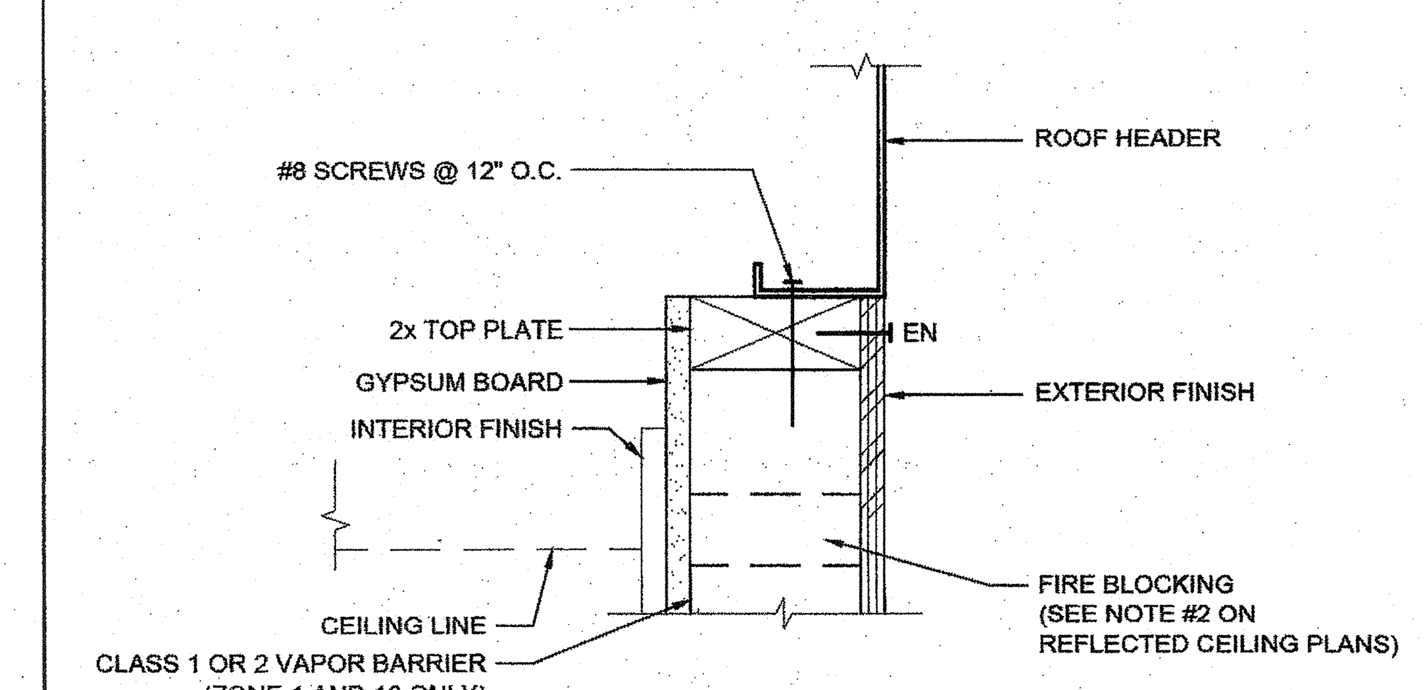
NOT USED 4

NOT USED 20

NOT USED 15



INTERIOR DOOR JAMBS SCALE : 3"=1'-0" 10



TOP PLATE AT ROOF HEADER SCALE : 3" = 1'-0" 5

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
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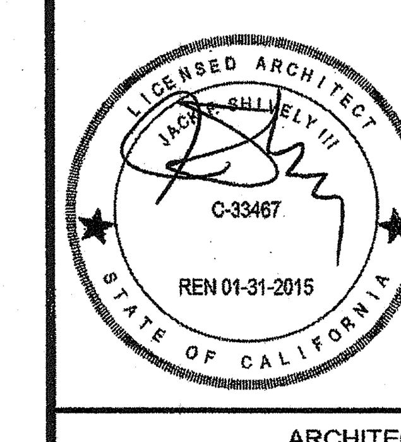
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - SHTG



ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 11[illegible] AC FLS SS DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF DATE JUL - 8 2015

REVISIONS

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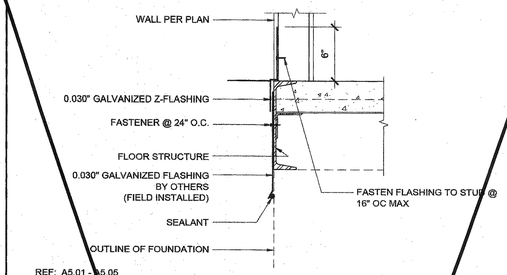
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

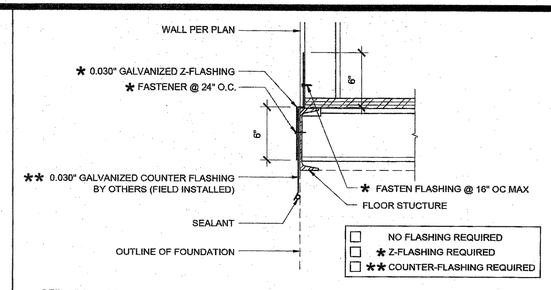
P.C. SHEET NUMBER

A-5.50



16 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

11 NOT USED



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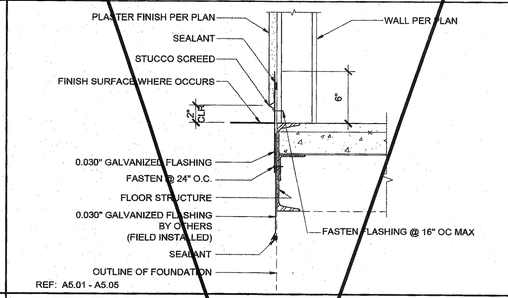
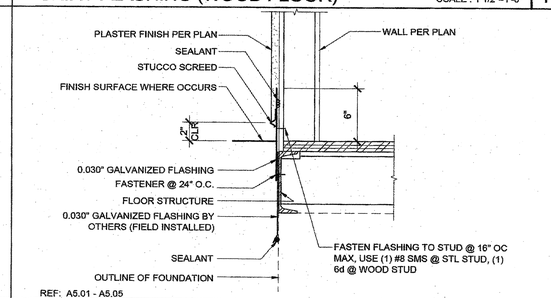


17 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

12 NOT USED



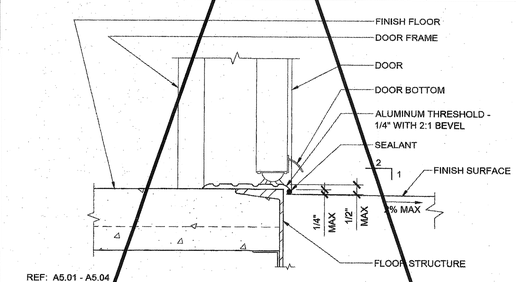
7 SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 2

18 NOT USED

13 NOT USED

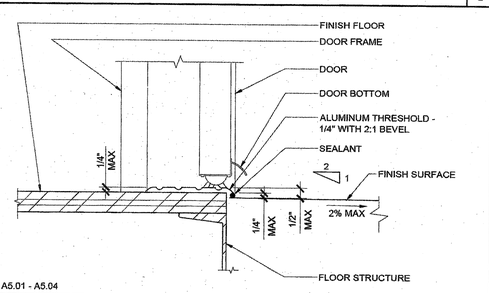
8 NOT USED

3

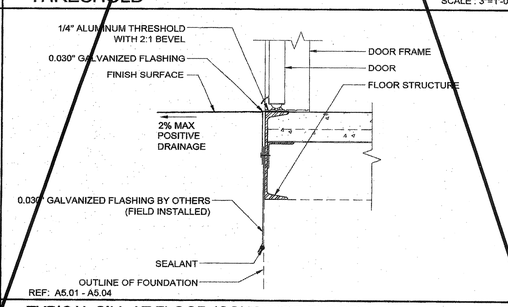


19 THRESHOLD SCALE : 3"=1'-0"

14 NOT USED

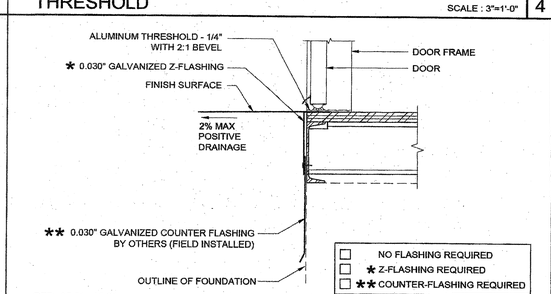


9 THRESHOLD SCALE : 3"=1'-0" 4



20 TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

15 NOT USED



10 TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ___ FLS ___ SS 27
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
FLOOR

LICENSED ARCHITECT — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 119782
AC ___ FLS ___ SS ___
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT DOES NOT CONSTITUTE A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ___ FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS

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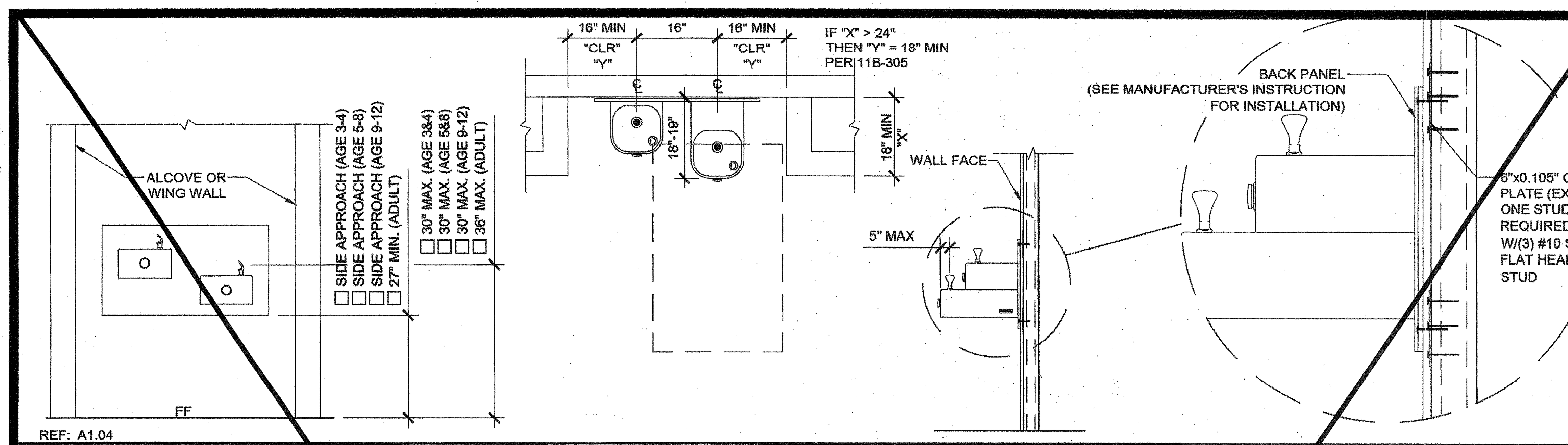
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

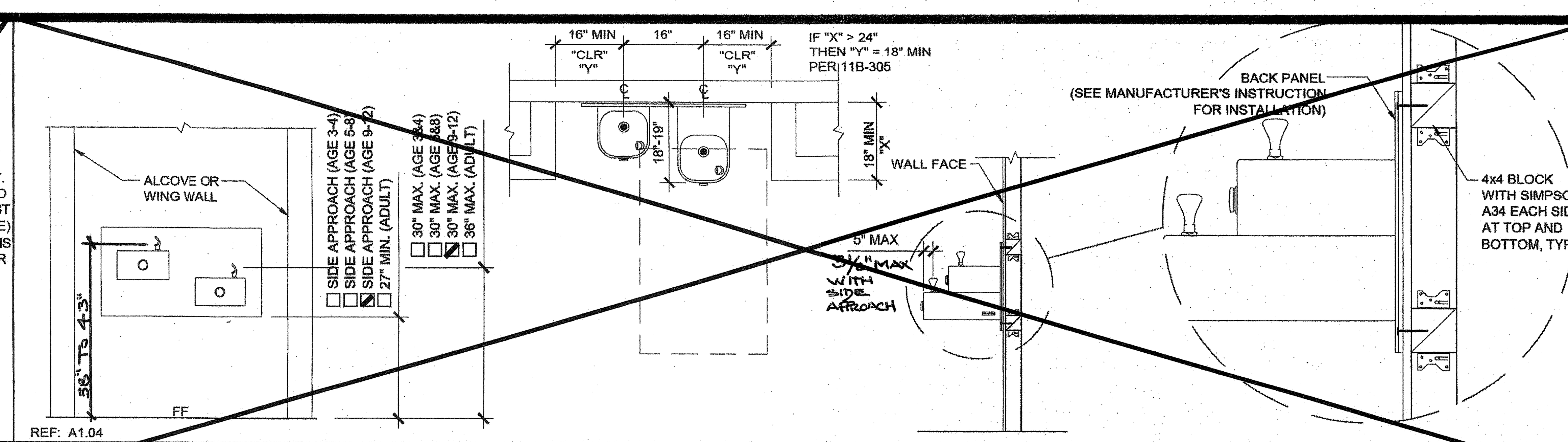
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

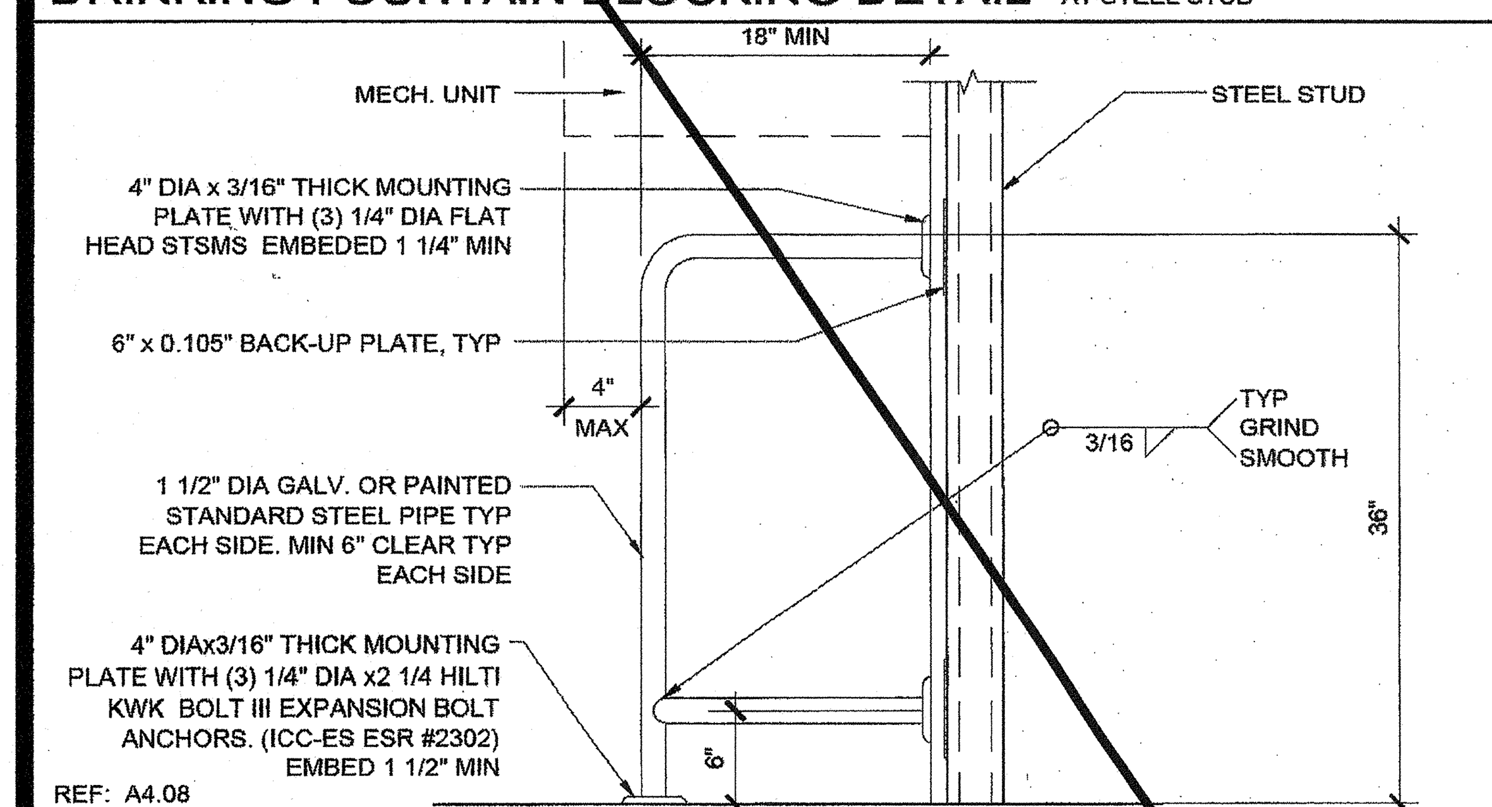
A-5.70



DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD — SCALE : 1/2" = 1'-0" — 11



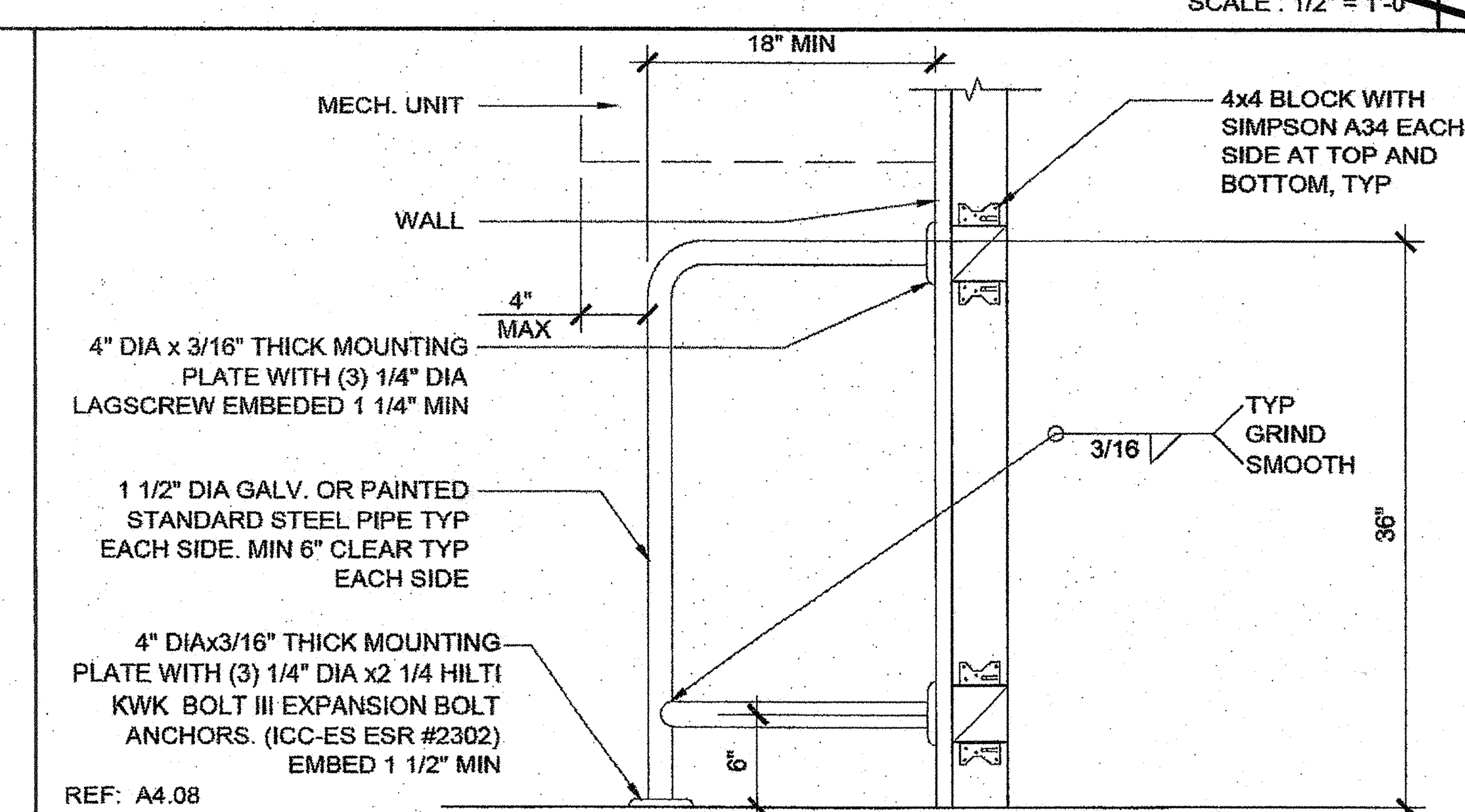
DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD — SCALE : 1/2" = 1'-0" — 1



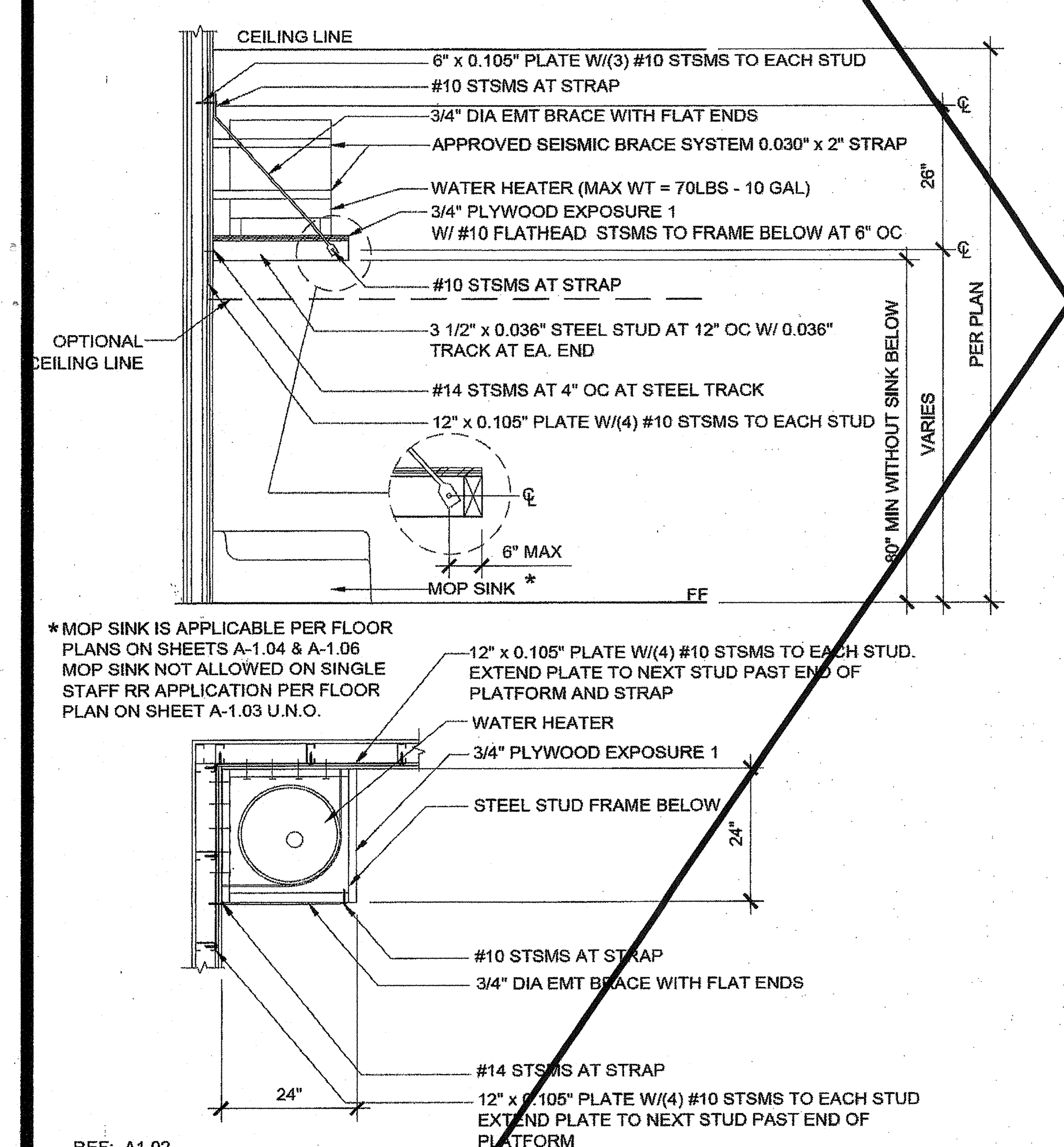
HVAC BARRIER AT STEEL STUD — SCALE : 1" = 1'-0" — 17

NOT USED — 13

NOT USED — 8

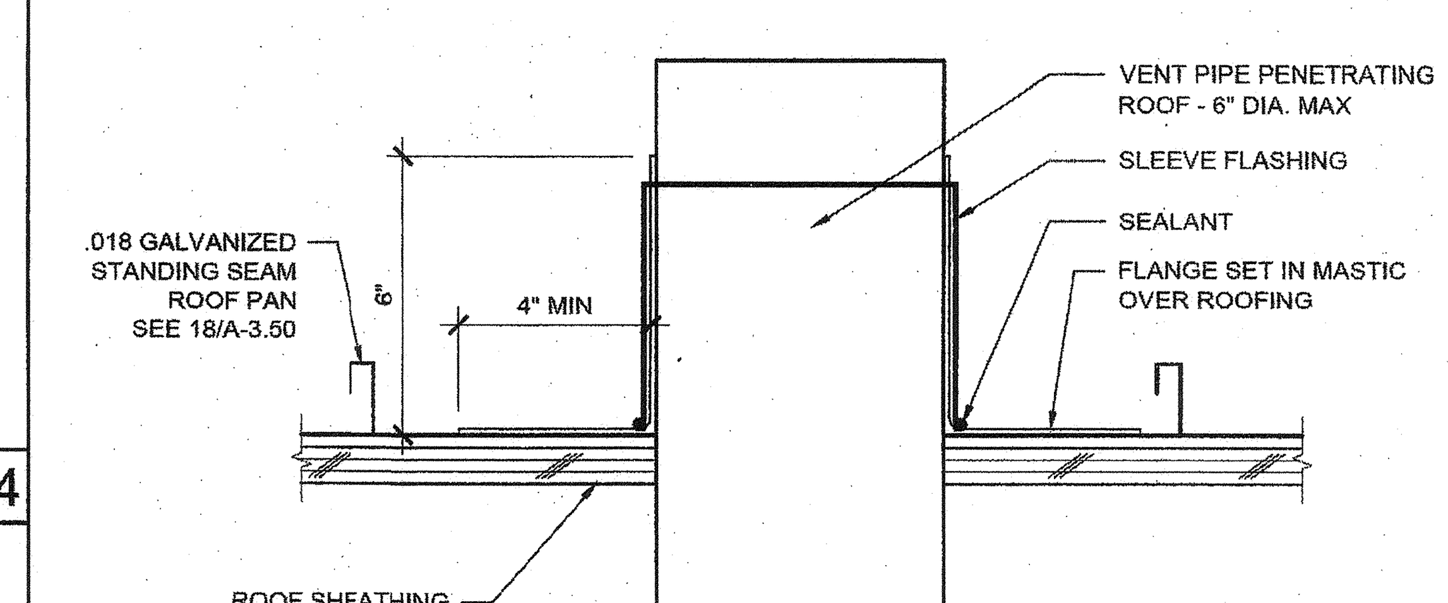


HVAC BARRIER AT WOOD STUD — SCALE : 1" = 1'-0" — 2



WATER HEATER SHELF AT STEEL STUD — SCALE : 1/2" = 1'-0" — 19

NOT USED — 14



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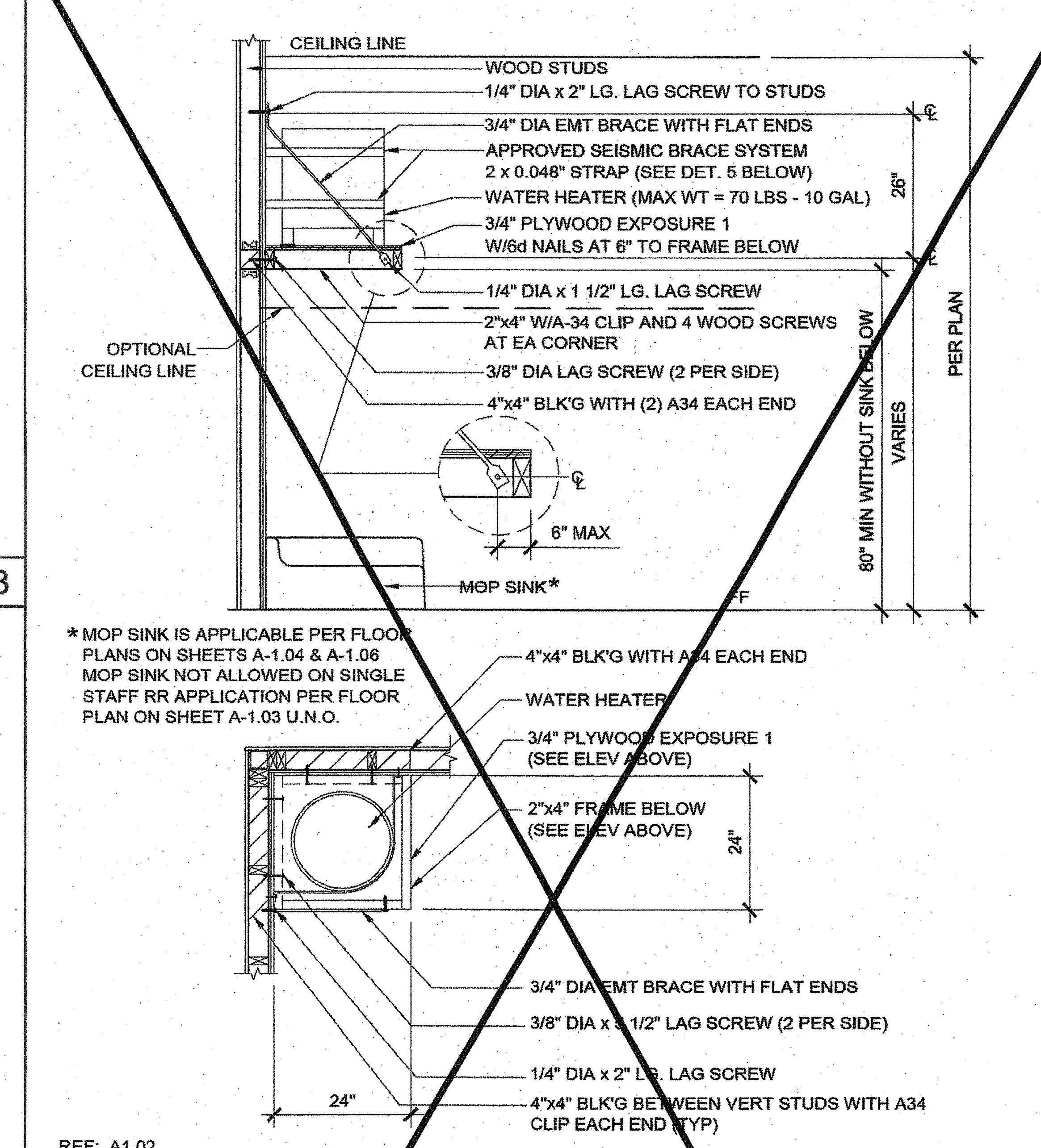
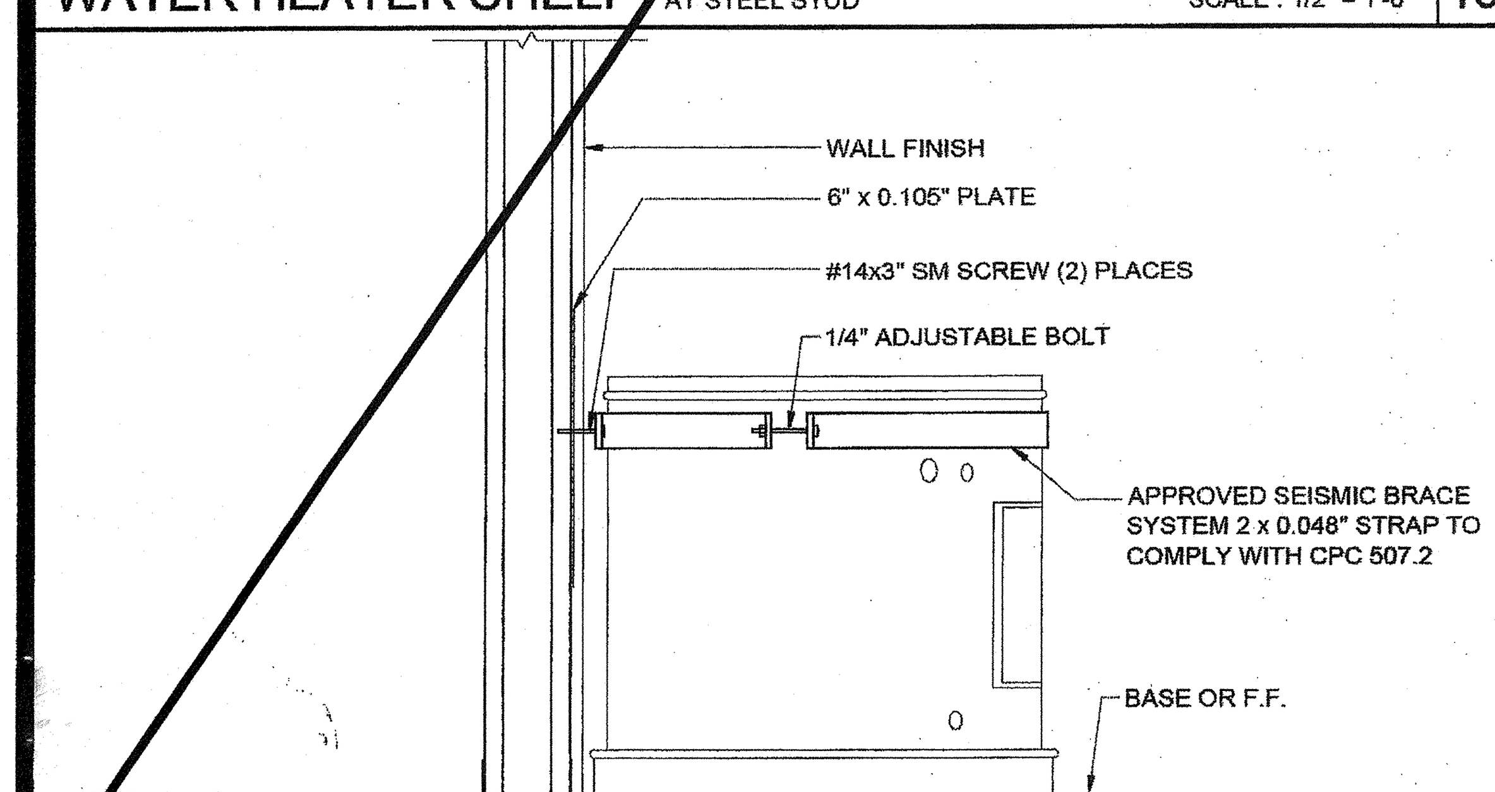
PIPE PENETRATION THROUGH ROOF — SCALE : 3"=1'-0" — 10

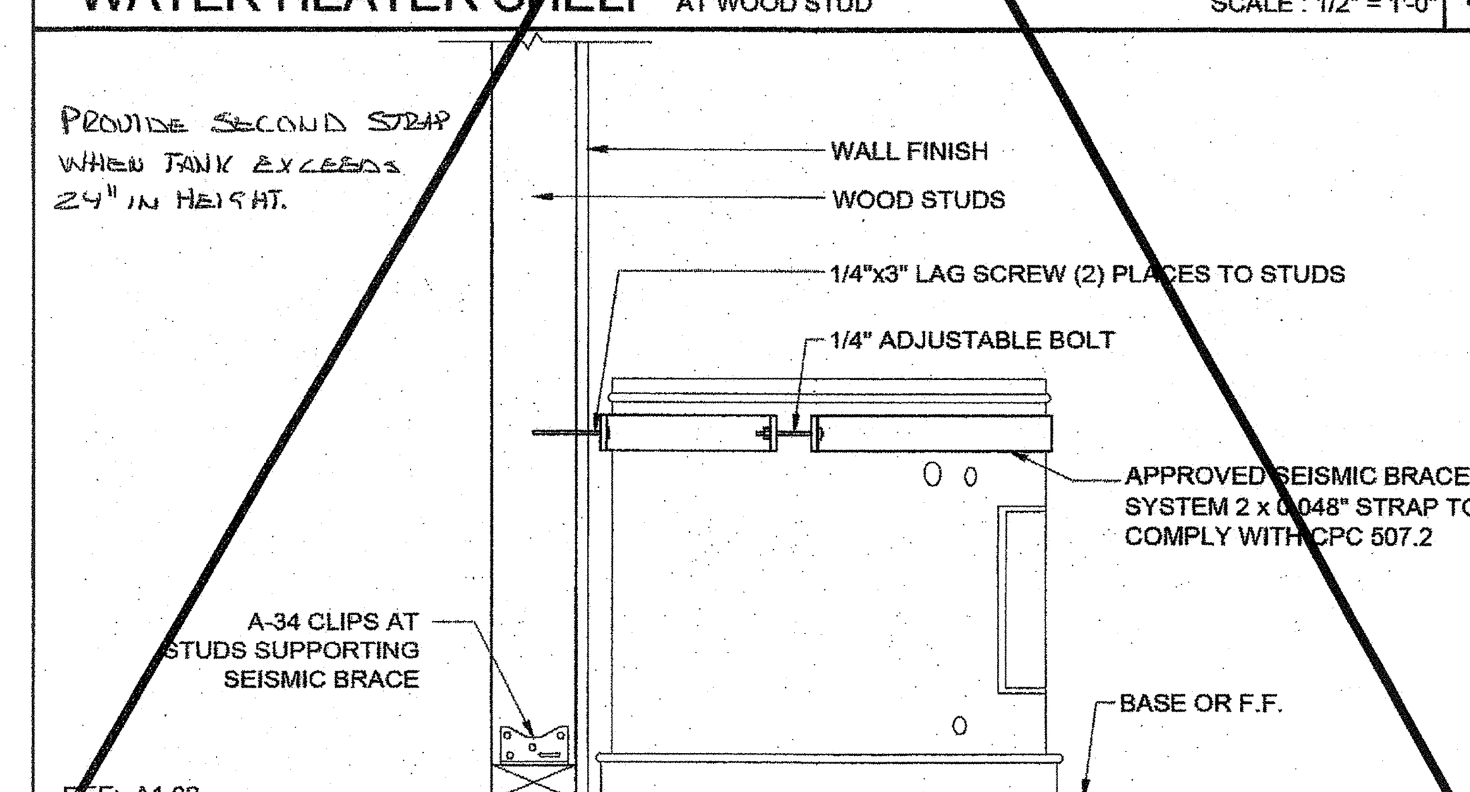


WATER HEATER SHELF AT WOOD STUD — SCALE : 1/2" = 1'-0" — 4



WATER HEATER BRACING AT STEEL STUD — SCALE : 1 1/2" = 1'-0" — 20

NOT USED — 15



WATER HEATER BRACING AT WOOD STUD — SCALE : 1 1/2" = 1'-0" — 5

SILVER CREEK INDUSTRIES, INC.

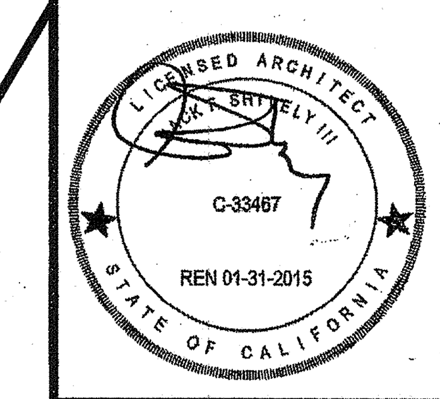
SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
MISCELLANEOUS



ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116614
AC ✓ FLS ✓ SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

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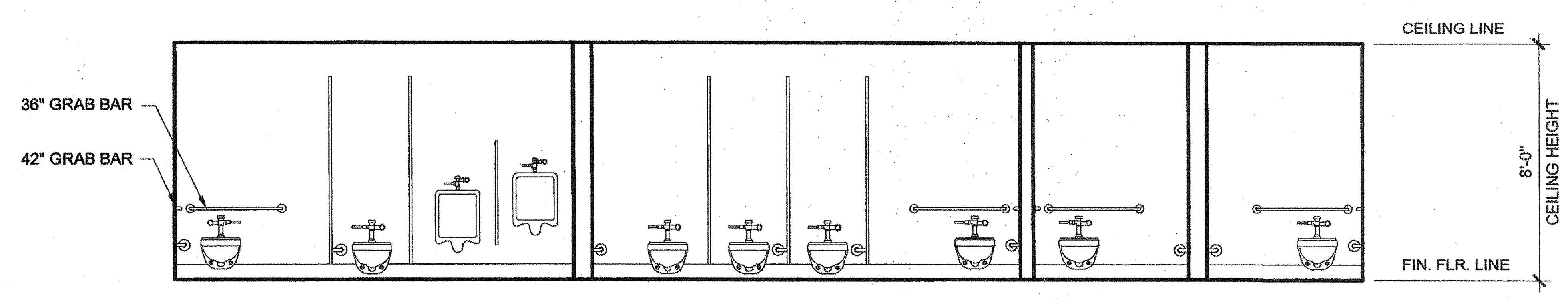
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-5.81



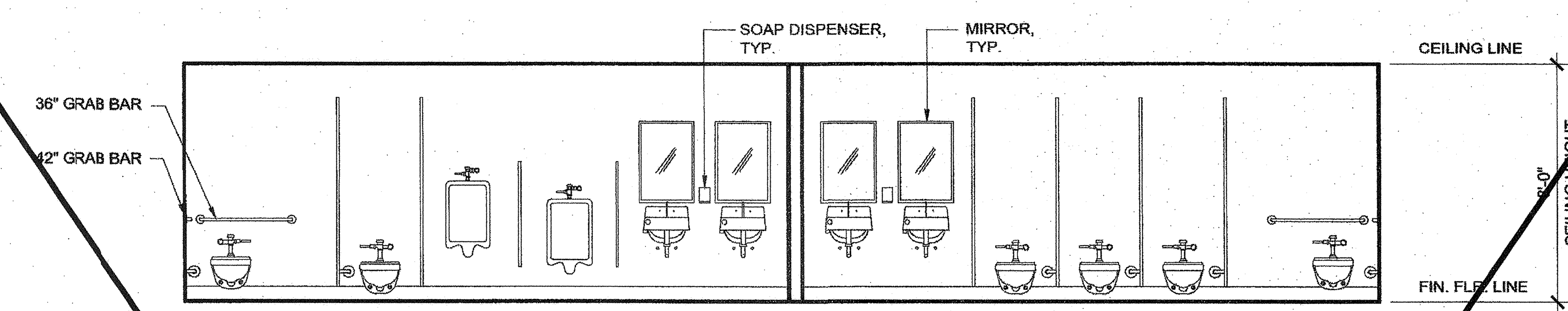
FIXTURE HEIGHTS AT BOYS & GIRLS ROOMS : KG

FIXTURE HEIGHTS AT STAFF ROOMS : ADULT

FIXTURES-BRAND-MODELS PER MANUFACTURER'S STD. PROVISIONS.

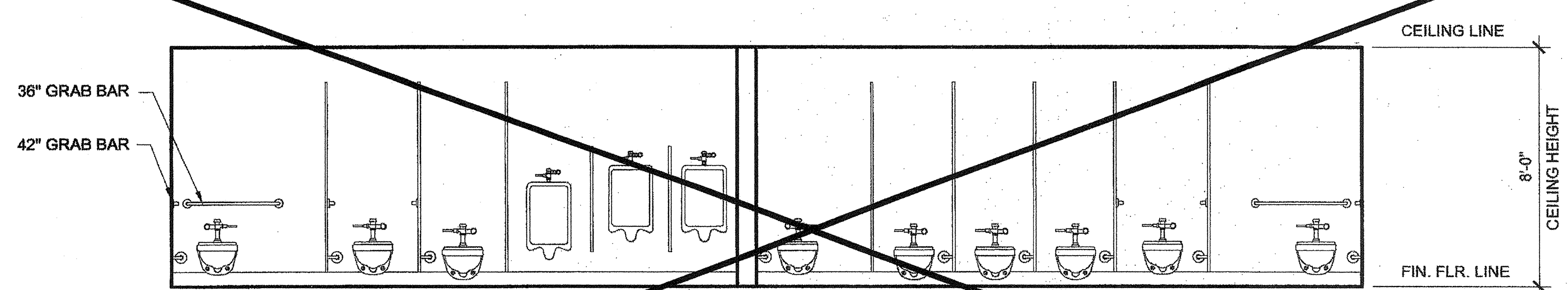
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION C-2 SCALE: 1/4" = 1'-0" 5



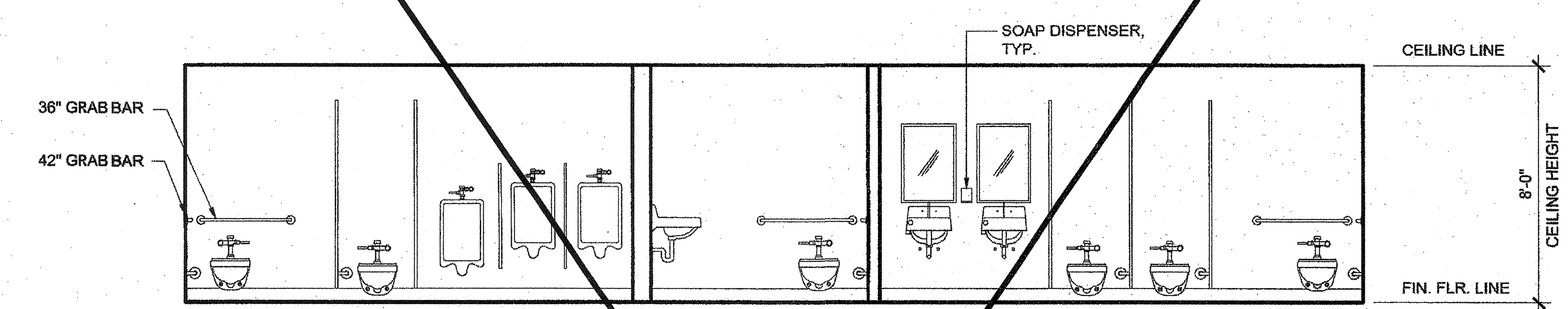
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION A-1 AND A-2 SCALE: 1/4" = 1'-0" 1



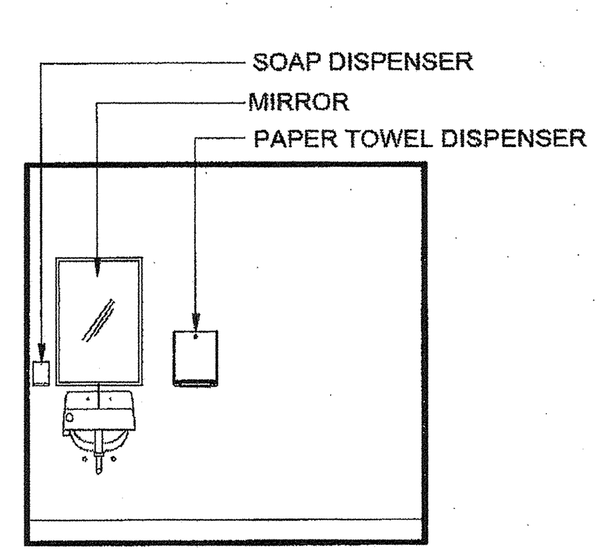
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION D-1 SCALE: 1/4" = 1'-0" 6



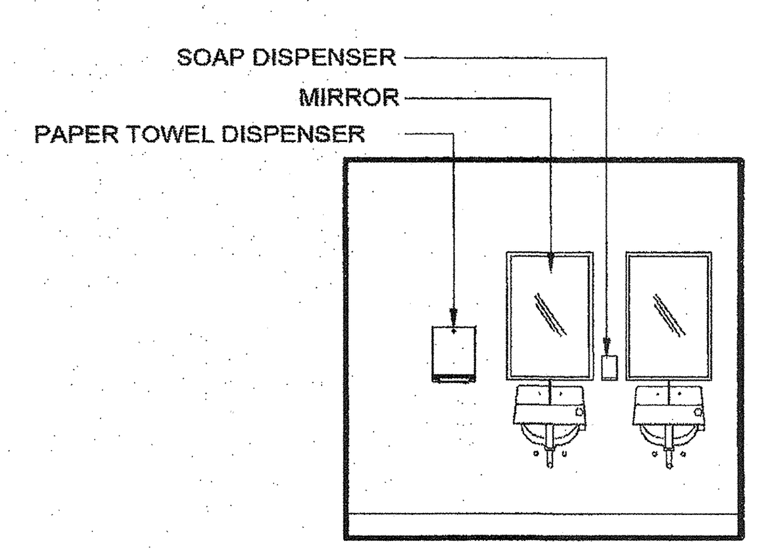
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION B-1 SCALE: 1/4" = 1'-0" 2



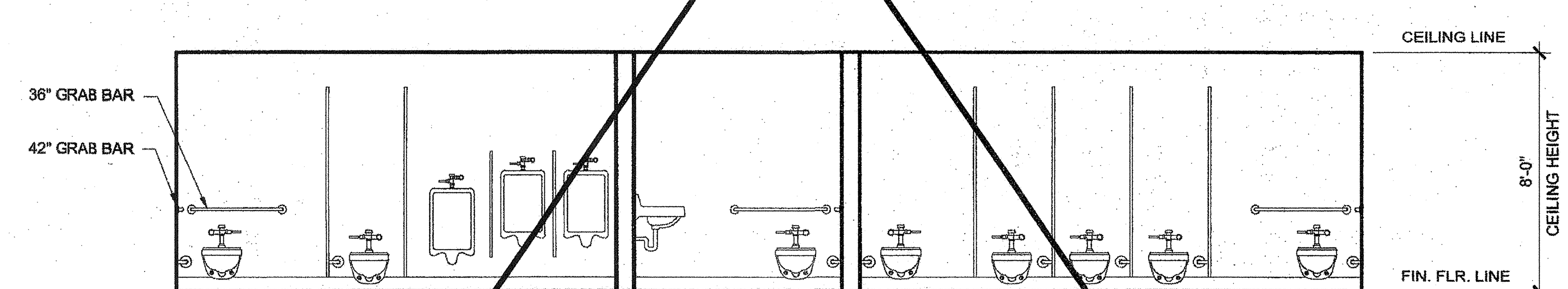
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

FIXTURE ELEVATION (TYP) - OPTION C-1 & C-2 SCALE: 1/4" = 1'-0" 9



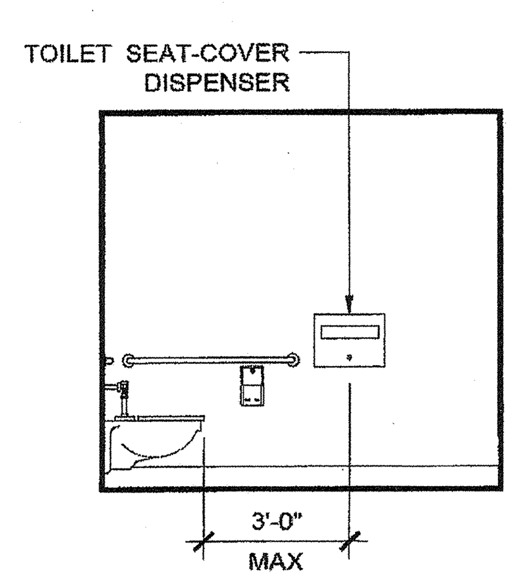
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

FIXTURE ELEVATION (TYP)-OPTION B-1, B-2, C-2 & D-1 SCALE: 1/4" = 1'-0" 7



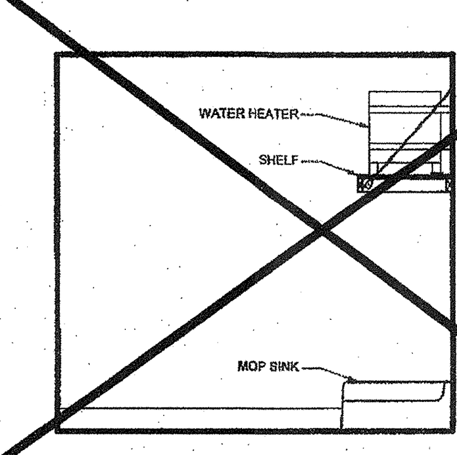
NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION B-2 SCALE: 1/4" = 1'-0" 3



NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

TOILET SEAT COVER DISPENSER ELEVATION SCALE: 1/4" = 1'-0" 10



NOTE:
SEE SHEET A-5.81 FOR SHELF DETAILS.

MOP SINK AND W/H ELEVATION-OPTION B-1 & B-2 SCALE: 1/4" = 1'-0" 8

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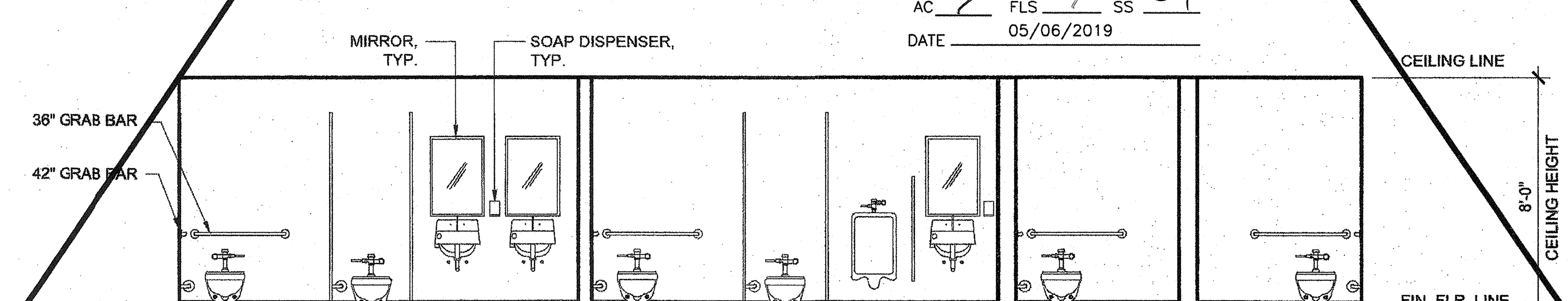
DATE 05/06/2019



NOTE:
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PLUMBING FIXTURE ELEVATION - OPTION C-1 SCALE: 1/4" = 1'-0" 4

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS WALL MOUNTED

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04-116517
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS

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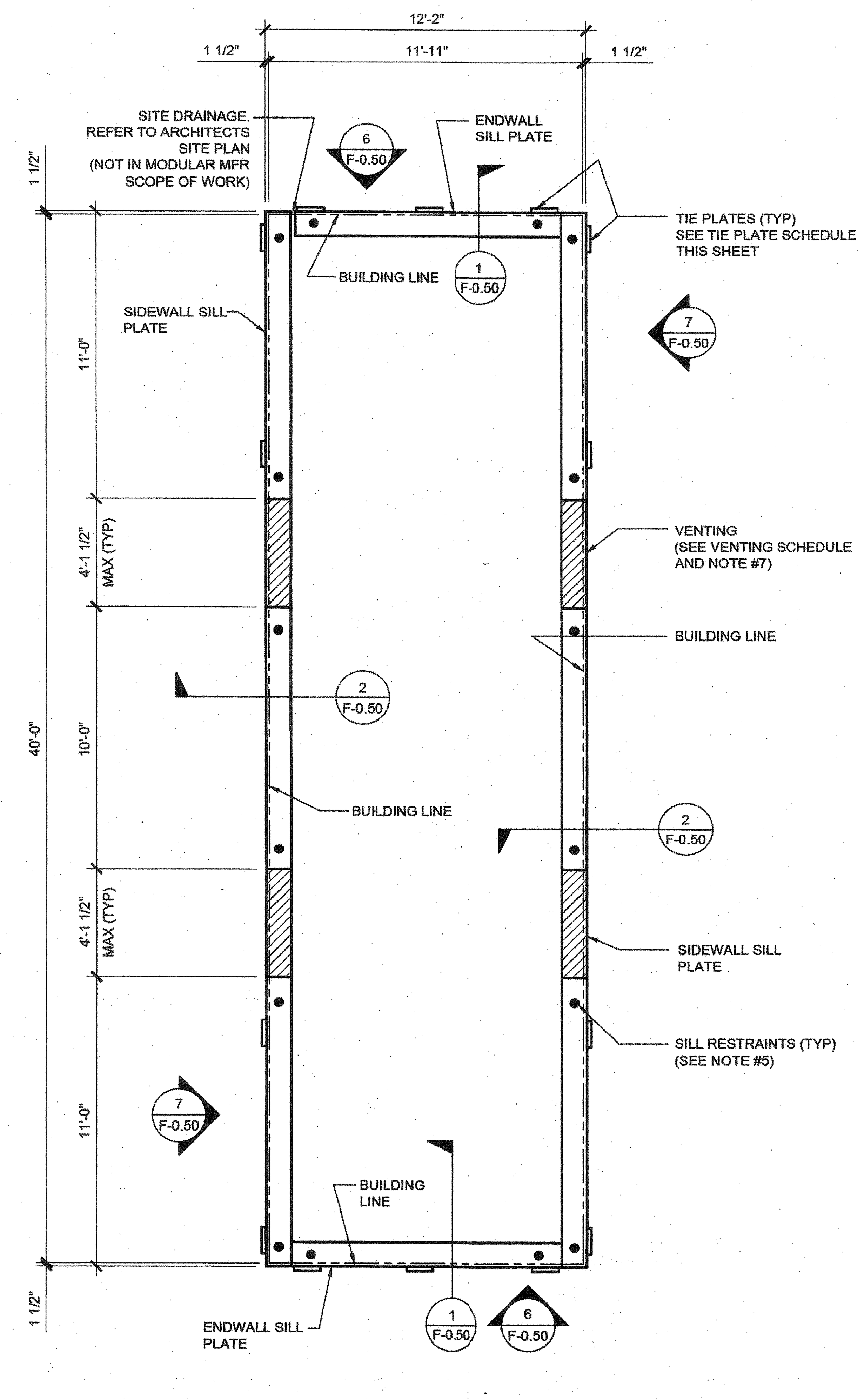
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

A-6.01



NOTE:
MINIMUM FOUNDATION HEIGHT TO BE 18" IF THE BUILDING CARRIES UNDER FLOOR PLUMBING (MANIFOLDS)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC / FLS / SS 37
DATE 05/06/2019

FOUNDATION PLAN

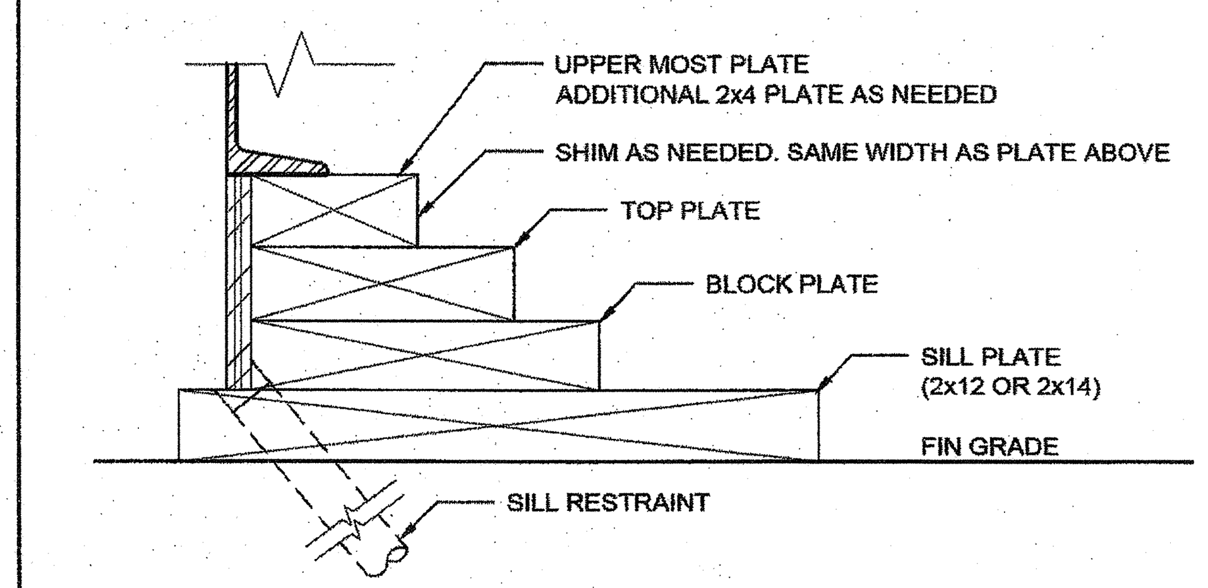
SCALE: 1/4" = 1'-0" 1

WOOD FOUNDATION PLATE SCHEDULE

50 + 15 PSF

PLATES	END WALL	SIDE WALL
ADDITIONAL (AS NEEDED)	2x4	2x4
TOP	2x6	2x6
BLOCK	2x8 SEE NOTE #10	2x8
SILL	2x12 SEE NOTE #10	2x12

FOUNDATION PLATE DESCRIPTION



NOTES

1. BUILDINGS OVER 2160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50
12. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.3.2(2).
<u>MATERIALS:</u>
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
<u>INSTALLATION RECOMMENDATIONS:</u>
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18". COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OPTION
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.

NAILING SCHEDULE

BUILDING SIZE	(2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE
12' x 40'	6" OC AT ENDWALL - 1 / F-0.50 12" OC AT SIDEWALL - 2 / F-0.50

VENTING SCHEDULE

BUILDING SIZE	BUILDING AREA	REQUIRED VENTING	SIDE VENTING	TOTAL VENTING SUPPLIED
12' x 40'	480 SF	3.2 SF (1/150)	4.125' x 3" = (4) 1.03 SF/EA	4.12 SF SEE NOTE #8

TIE PLATE SCHEDULE (14 / F-0.50)

BUILDING SIZE	SIDE WALL TIE PLATES	END WALL TIE PLATES	TOTAL NUMBER OF TIE PLATES
12' x 40'	4	3	14

SILVER CREEK INDUSTRIES, INC.
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Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
WOOD FOUNDATION PLAN
12x40
(50 + 15 PSF)

TAVARES ASSOCIATES

LICENSED ARCHITECT C-33457 REN 01-31-2015 STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA 6-25-2014

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
04 116
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL
PRE-CHECK (PC) DOCUMENT CODE 2013 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS
1
2
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8

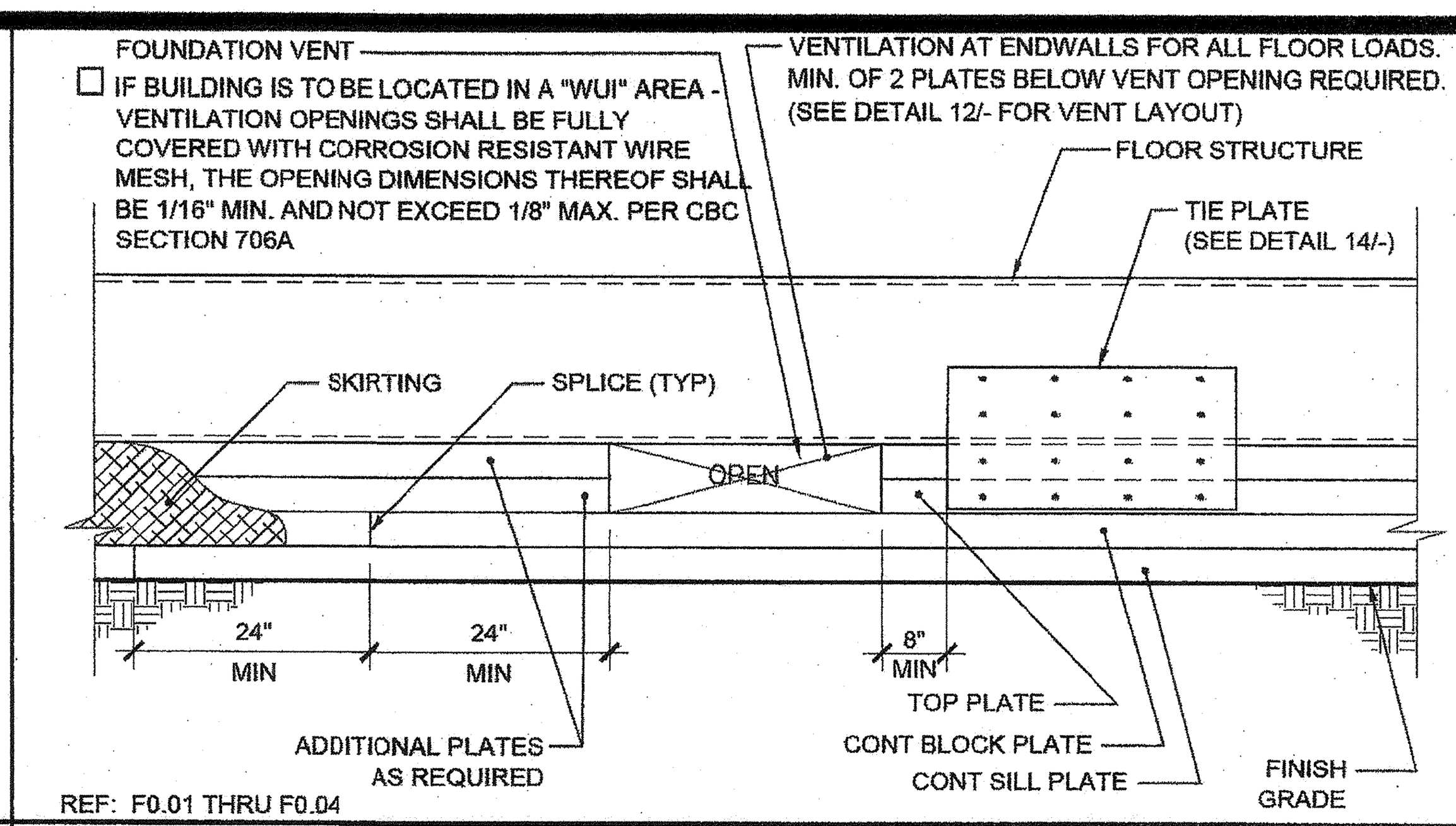
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

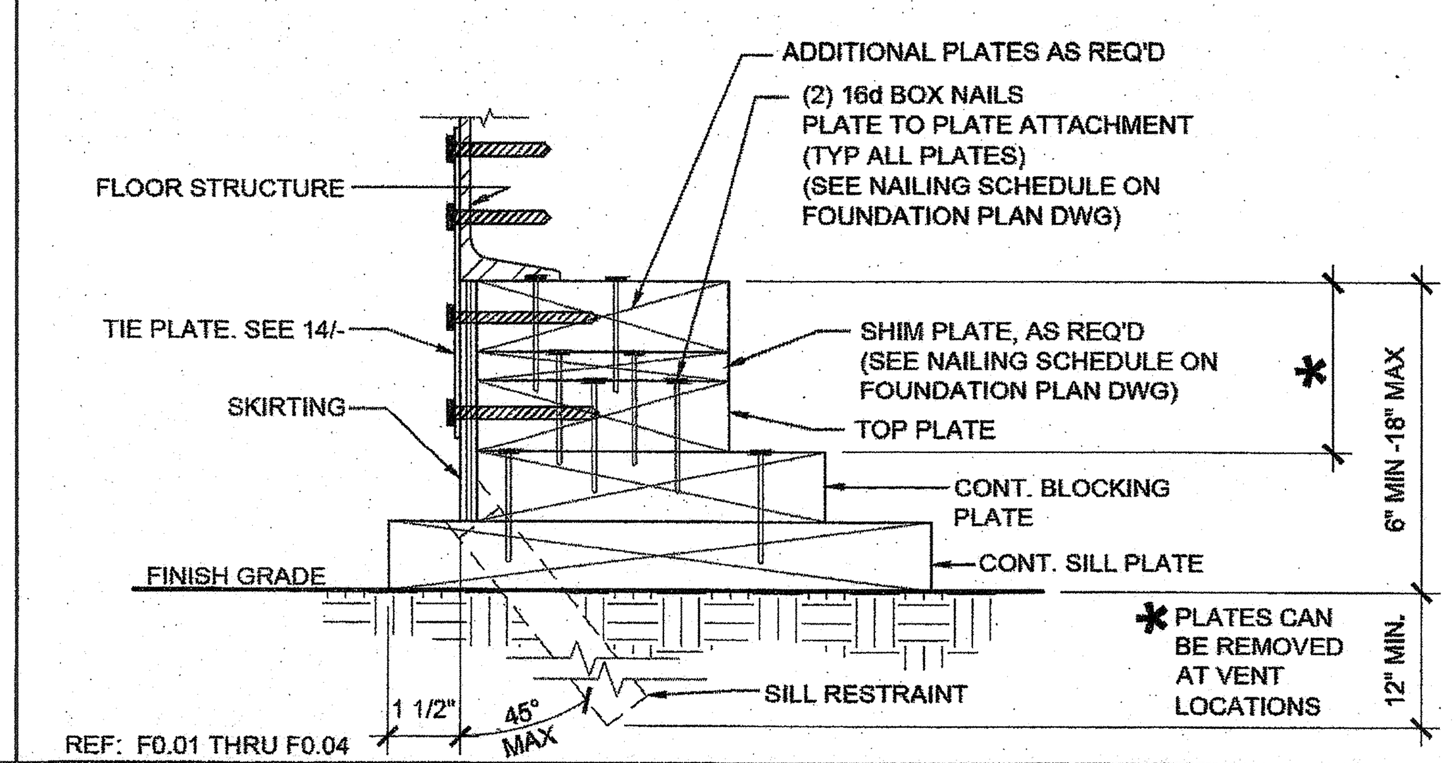
P.C. SHEET NUMBER
F-0.02
- - HIGH SEISMIC - -

16 NOT USED

11 NOT USED

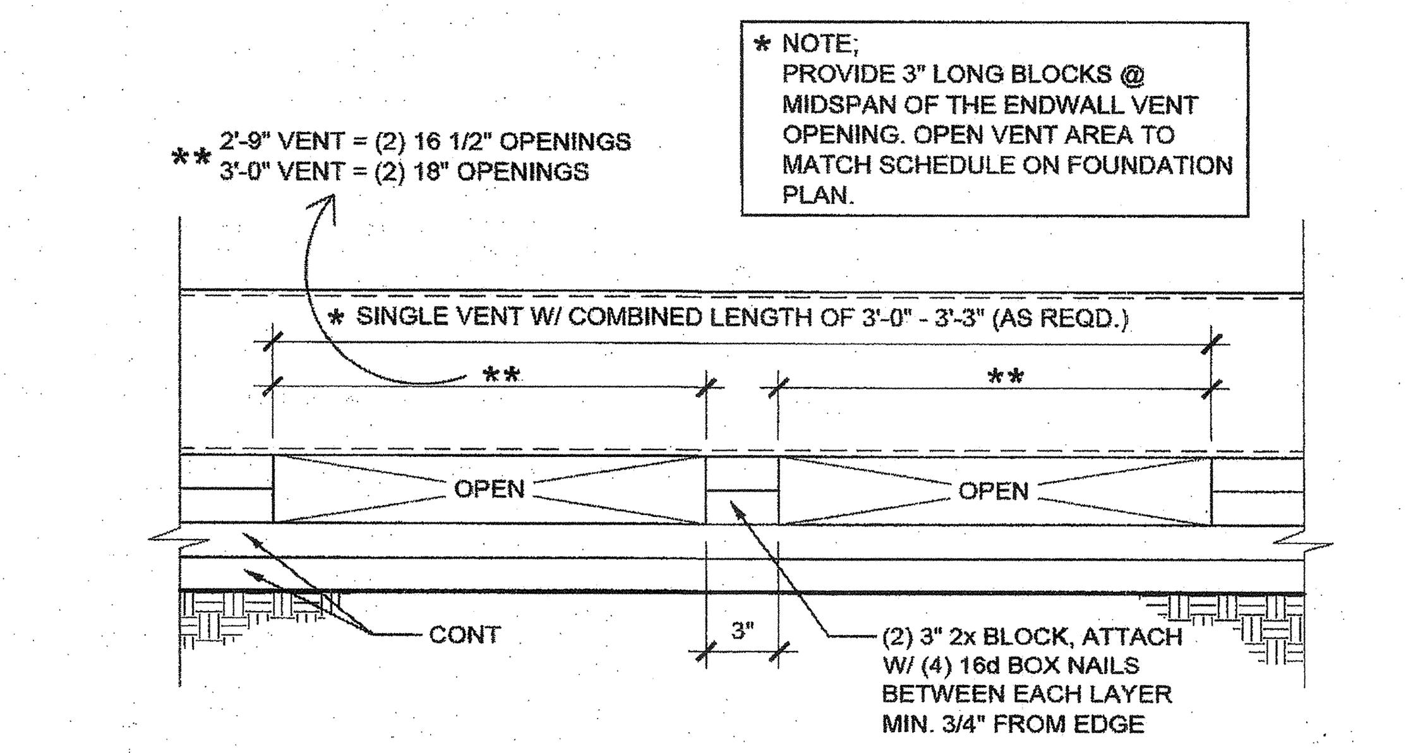


6 FOUNDATION ASSEMBLY END WALL ELEVATION SCALE : 1 1/2"=1'-0"

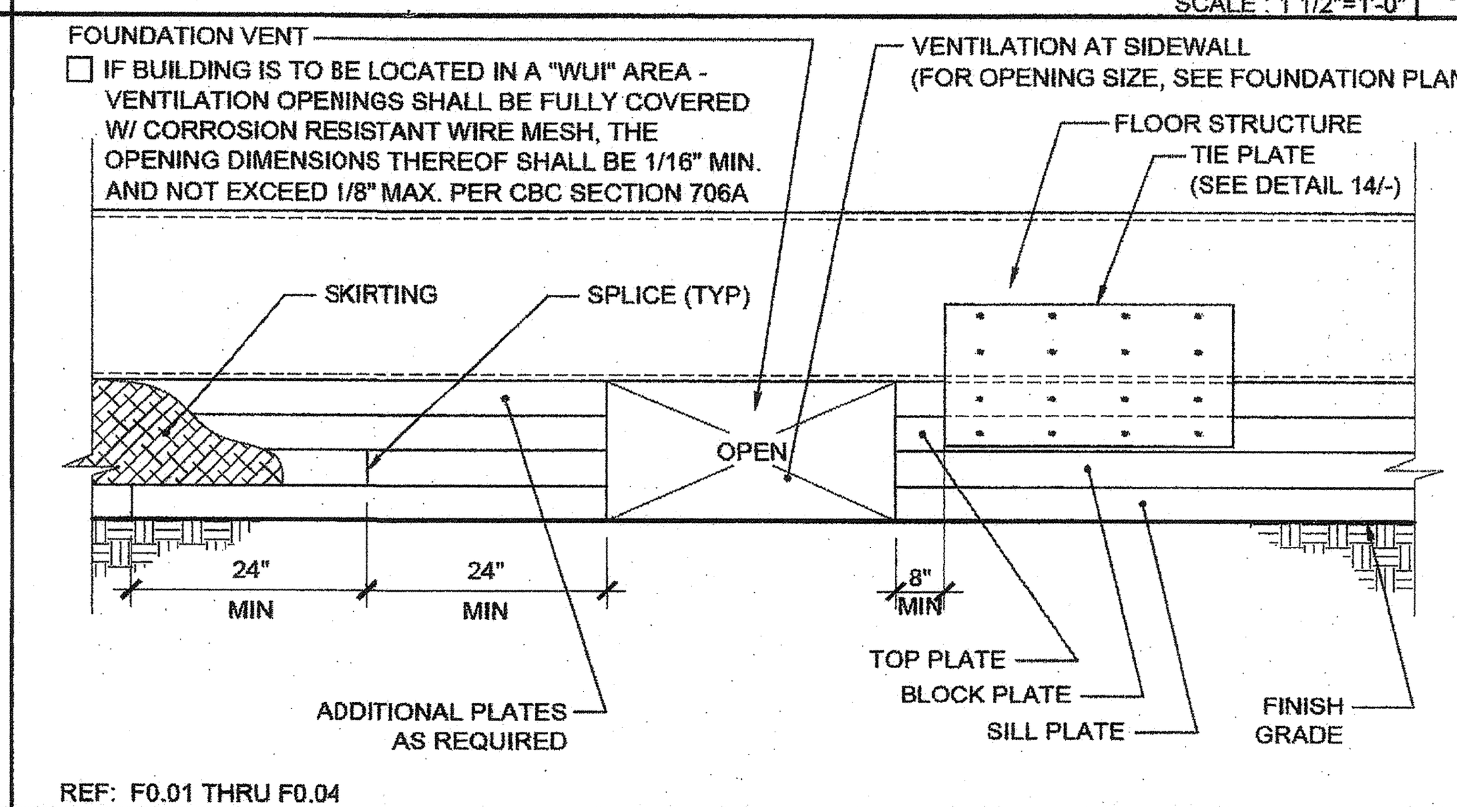


1 FOUNDATION AT END WALL SCALE : 3"=1'-0"

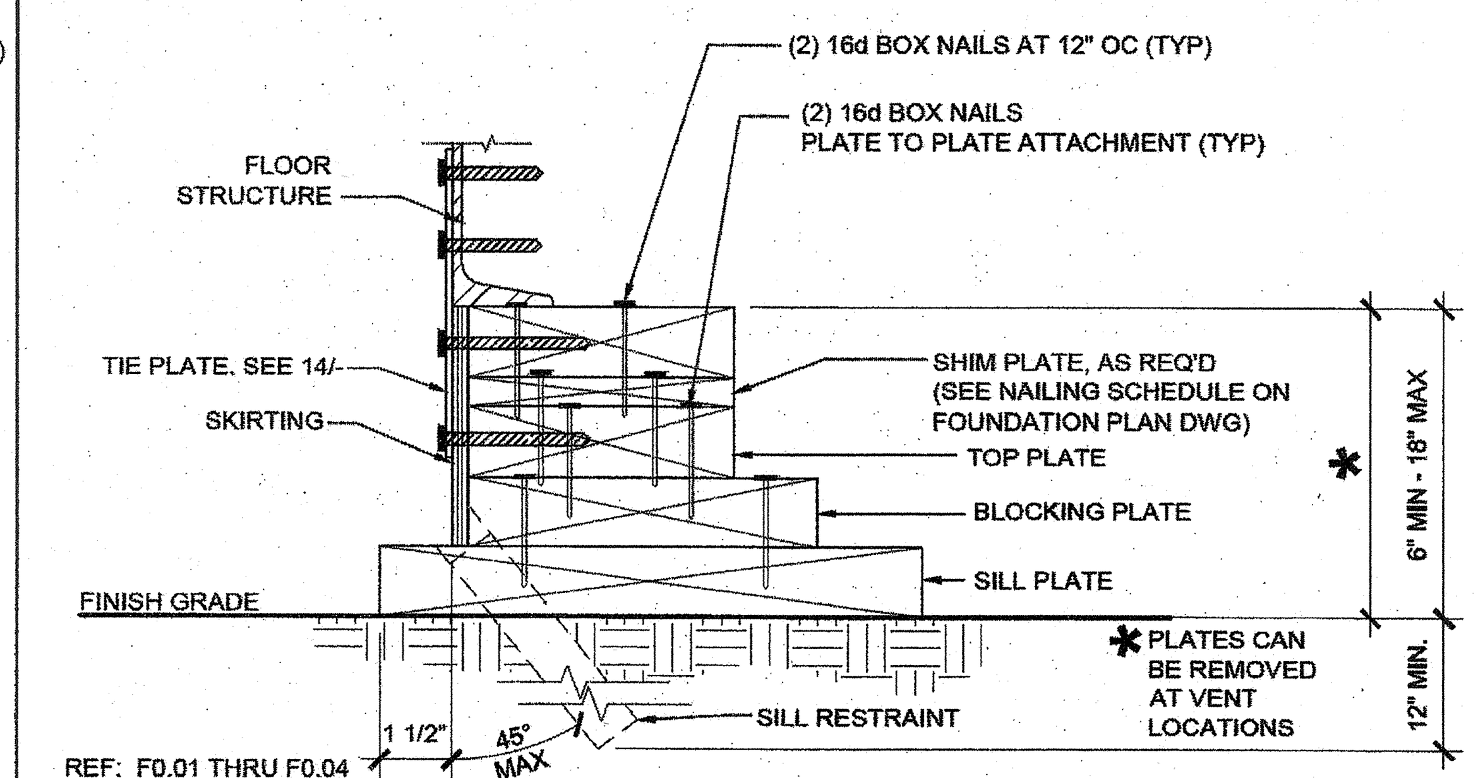
17 NOT USED



12 END WALL VENT SCALE : 1 1/2"=1'-0"

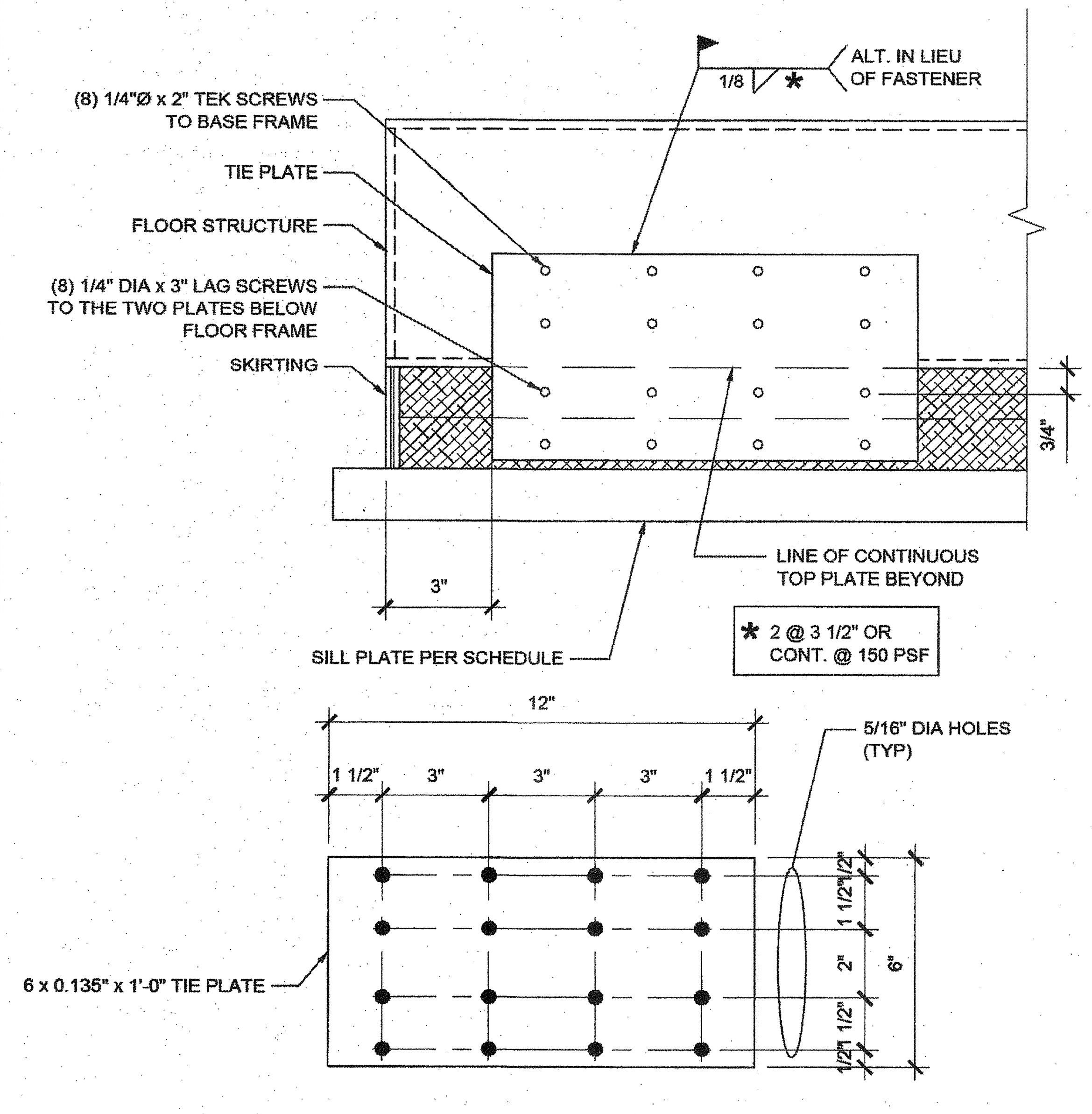


7 FOUNDATION ASSEMBLY SIDEWALL ELEVATION SCALE : 1 1/2"=1'-0"



2 FOUNDATION AT SIDE WALL SCALE : 3"=1'-0"

18 NOT USED



14 TIE PLATE SCALE : 3"=1'-0"

NOTE:
MINIMUM FOUNDATION HEIGHT TO BE 18" IF THE BUILDING CARRIES UNDER FLOOR PLUMBING (MANIFOLDS)

8 NOT USED

3 NOT USED

19 NOT USED

9 NOT USED

IDENTIFICATION STAMP
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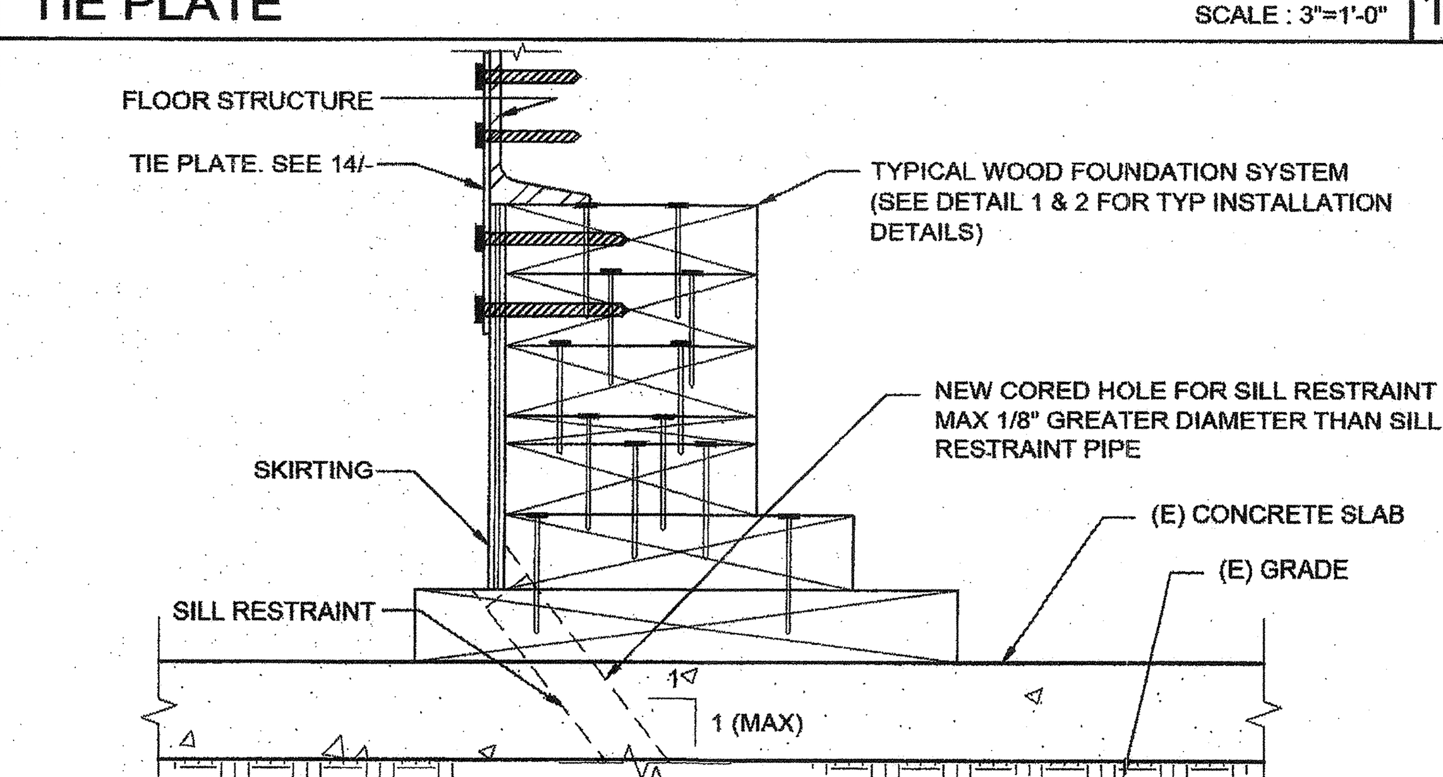
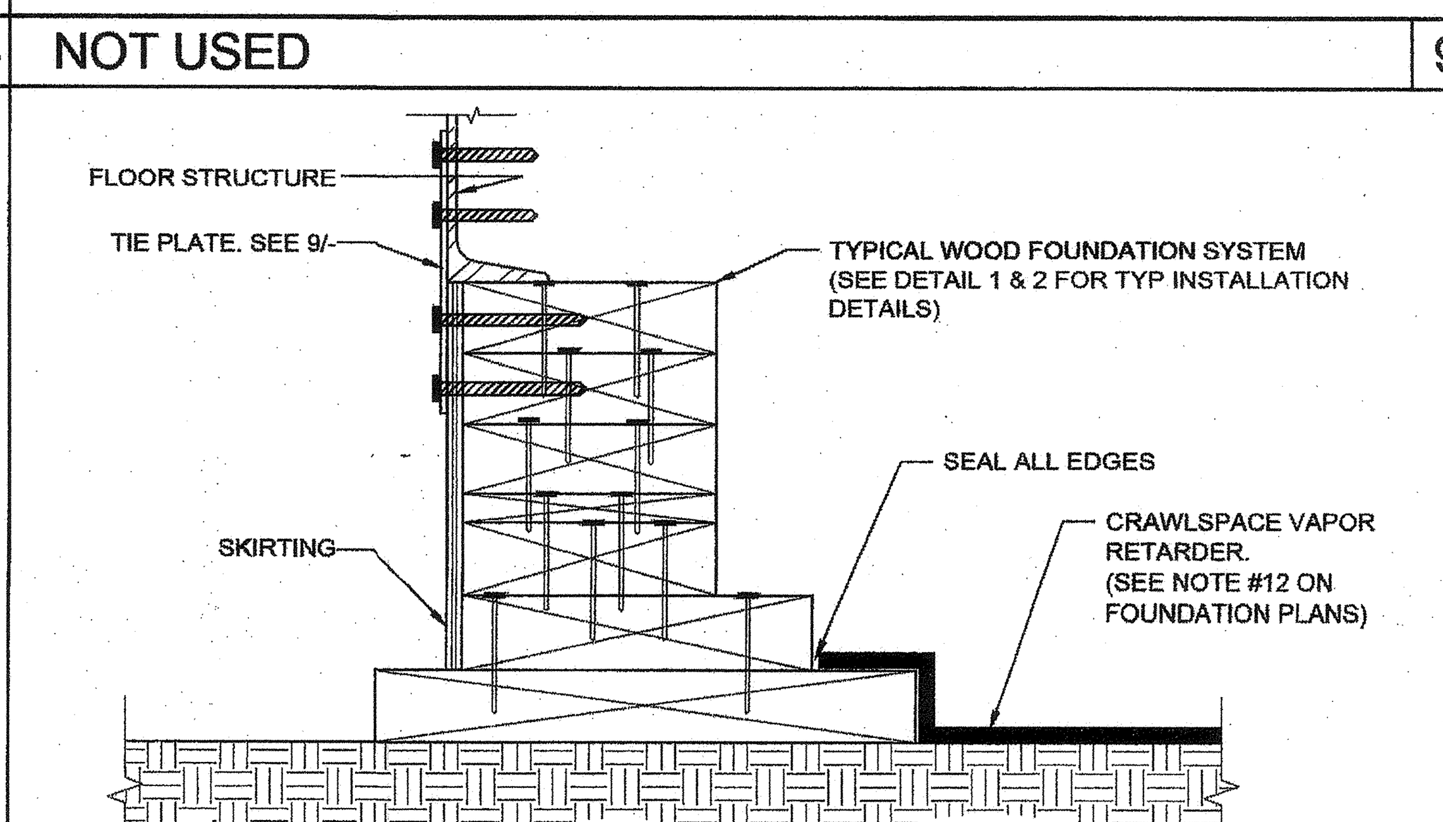
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 27
DATE 05/06/2019

4 NOT USED

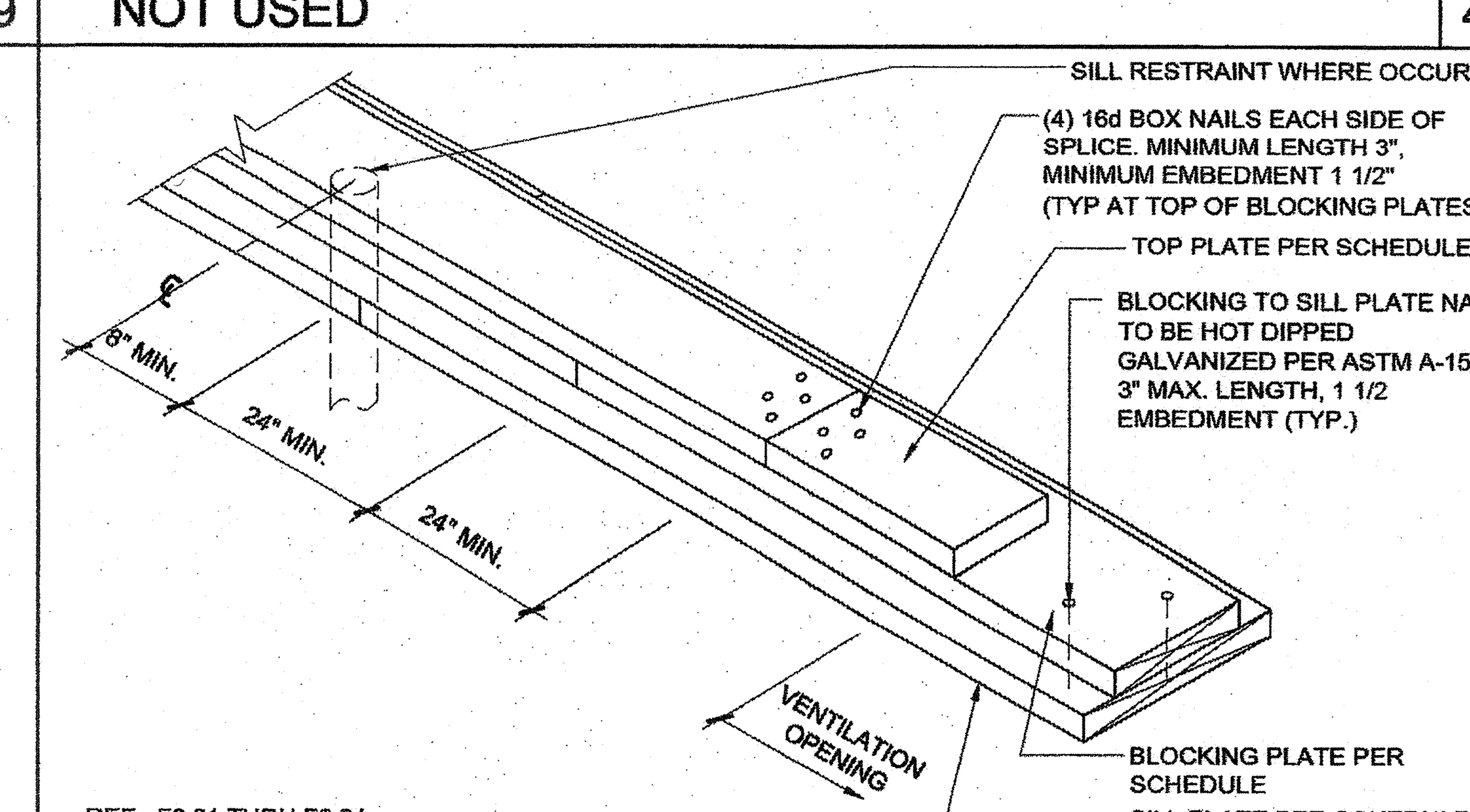
20 NOT USED



15 FOUNDATION ANCHORAGE AT CONCRETE PAD SCALE : 3"=1'-0"



10 CRAWLSPACE VAPOR RETARDER SCALE : 3"=1'-0"



5 FOUNDATION SPLICE SCALE : NTS

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FOUNDATION DETAILS
WOOD

TAVARES ASSOCIATES

LICENSED ARCHITECT C-33467 REN 01-31-2015 STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA
6-25-2014

ARCHITECT OF RECORD SUBMISSION DATE

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04 117
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ORIGINAL PC STATE AGENCY APPROVAL

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SILVER CREEK INDUSTRIES
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F-0.50

- - HIGH SEISMIC - -

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-11.
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS SPECIFIED IN TITLE 24. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1).
   CONCRETE COMPRESSIVE STRENGTH F'C= 3500 PSI
   WATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT
   PORTLAND CEMENT TYPE I
   NORMAL WEIGHT
5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN CONCRETE SLAB SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ALL CEMENT SHALL BE TYPE I OR II PER ASTM C-150. (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING
11. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
12. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
13. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 40. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 60.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2013 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.120" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.135" : ASTM A-1011/A GRADE 40

SHEET STEEL DESIGNATION THICKNESS (INCHES)	MINIMUM DELIVERED THICKNESS (INCHES)
0.018	0.017
0.030	0.029
0.036	0.034
0.048	0.046
0.060	0.057
0.075	0.071
0.105	0.100
0.120	0.114
0.135	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NDT:

CJP GROOVE WELD NDT

ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = DF #2 OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS-1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS-1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.9.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.11.2.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663 OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.9.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

MATERIALS: ALL STRUCTURAL STEEL IDENTIFICATION SHALL CONFORM WITH TITLE 24, SECTION 2203A.1.

STEEL SHAPES: ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36, OPEN HEARTH OR ELECTRIC FURNACE ONLY.

STEEL TUBES: ALL STRUCTURAL TUBES SHALL CONFORM TO REQUIREMENTS OF ASTM A-500 GRADE B (fy=46 KSI), ASTM A53 OR A1085 TYPICAL.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:

THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:

ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:

3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO SHEET METAL SUPPORTS W/ #8 x 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS (ICC ESR-1976) ~~OR 0.145 PACEAST PREFERRED FASTENERS (ICC ESR-[illegible]) AT 4" OC AT BOUNDARIES,~~ 6" OC AT EDGES, AND 12" OC FIELD NAILS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2. NOTE: ~~0.145 PNEUMATIC FASTENERS OPTION IS NOT ALLOWED ON PARAPET APPLICATIONS (PARAPET HEIGHT) HIGHER THAN 18" OR AT STRUCTURAL STEEL, IE. TRUSSES.~~

FLOOR DIAPHRAGM:

1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO SHEET METAL SUPPORTS W/ #8 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS (ICC ESR-1976) ~~OR 0.145 PACEAST PREFERRED FASTENERS (ICC ESR-[illegible]) AT 4" OC AT BOUNDARIES~~ AT 6" OC AT EDGES, AND 12" OC AT INTERMEDIATE SUPPORTS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2. ~~0.145 PNEUMATIC FASTENERS (PACEAST PREFERRED FASTENERS) OPTION IS NOT ALLOWED [illegible] AT STRUCTURAL STEEL, IE. FLOOR CHANNELS OR 150 PSF FLOOR LOAD OPTION.~~

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI or 4000 PSI
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2013 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 14TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:

WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:

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

CHANGES:

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

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NAILING NOTES:

1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:

ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:

AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE CBC - TABLE 2304.9.1

CONNECTION	FASTENING^{a,m}	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3" x 0.131" NAILS	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131") 2 - 3" x 0.31" NAILS	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON ($2\frac{1}{2}$" x .131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d($3\frac{1}{2}$" x .135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL	3 - 16d($3\frac{1}{2}$" x .135") AT 16" O.C. 4 - 3"x0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON ($3\frac{1}{2}$" x 0.162") 3 - 3"x0.031" NAILS	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON ($2\frac{1}{2}$"x0.131") 4 - 3"x0.131" NAILS	TOENAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	END NAIL
9. DOUBLE STUDS	16d ($3\frac{1}{2}$"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 12" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d ($3\frac{1}{2}$"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON ($3\frac{1}{2}$"x0.162") 12 - 3"x0.131" NAILS	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	TOENAIL
12. RIM JOIST TO TOP PLATE	8d ($2\frac{1}{2}$"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS, AND INTERSECTIONS	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON ($3\frac{1}{2}$"x0.162")	16" OC ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 5 - 3"x0.131" NAILS	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON ($2\frac{1}{2}$"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1	3 - 8d COMMON ($2\frac{1}{2}$"x0.131") 3 - 3"x0.131" NAILS	FACE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON ($2\frac{1}{2}$"x0.131") 2 - 3"x0.131" NAILS	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON ($2\frac{1}{2}$"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON ($3\frac{1}{2}$"x0.162") 3"x0.131" NAILS	24" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32" O.C 3"x0.131" NAIL AT 24" O.C	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x0.192") 3 - 3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON ($3\frac{1}{2}$"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
28. ROOF RAFTERS TO 2-BY RIDGE BEAM	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON ($3\frac{1}{2}$"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON ($3\frac{1}{2}$"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD^{b} SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d^{c,l} $2\frac{3}{8}$"x0.113" NAIL^{n} $1\frac{3}{4}$" 16d GAGE^{o} 19/32" TO 3/4" 8d^{d} or 6d^{e} $2\frac{3}{8}$"x0.113" NAIL 2" 16d GAGE^{p} 7/8" TO 1" 8d^{c} 1 1/8" TO 1 1/4" 10d^{d} or 8d^{e}	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS 6d^{e} 7/8" TO 1" 8d^{e} 1 1/8" TO 1 1/4" 10d^{d} OR 8d^{e}	
32. PANEL SIDING (TO FRAMING)	1/2" AND LESS 6d^{f} 5/8" 8d^{f}	
33. FIBERBOARD SHEATHING^{g}	1/2" NO. 11 GA ROOFING NAIL^{h} 6d COMMON NAIL (2"x0.113") 25/32" NO. 11 GA ROOFING NAIL^{h} 8d COMMON NAIL ($2\frac{1}{2}$"x 0.131")	
34. INTERIOR PANELING	1/4" 4d^{j} 3/8" 6d^{k}	

FOOTNOTES:

a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
b. NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX, OR CASING.
c. COMMON OR DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
d. COMMON (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
e. DEFORMED SHANK (6d - 2" x 0.113" ; 8d - 2 1/2" x 0.131" ; 10d - 3" x 0.148").
f. CORROSION-RESISTANT SIDING (6d - 1 7/8" x 0.106" ; 8d - 2 3/8" x 0.128") OR CASING (6d - 2" x 0.099" ; 8d - 2 1/2" x 0.113") NAIL.
g. FASTENERS SPACED 3" ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
j. CASING (1 1/2" x 0.080") OR FINISH (1 1/2" x 0.072") NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
k. PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16". STAPLES ARE NOT PERMITTED FOR WOOD SHEAR WALLS AND DIAPHRAGMS (2305.1.2-4).
n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.
o. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" ON CENTER AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
p. FASTENERS SPACED 4" ON CENTER AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

STRUCTURAL SPECIFICATIONS

R&S TAVARES ASSOCIATES
DESIGN◆CONSULTING◆PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

LICENSED ARCHITECT JACK SHIVELY III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRISCH No. S3380 STRUCTURAL STATE OF CALIFORNIA
6-25-2014

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116[illegible] ACS FLS SS DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

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

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AC FLS SS RAF
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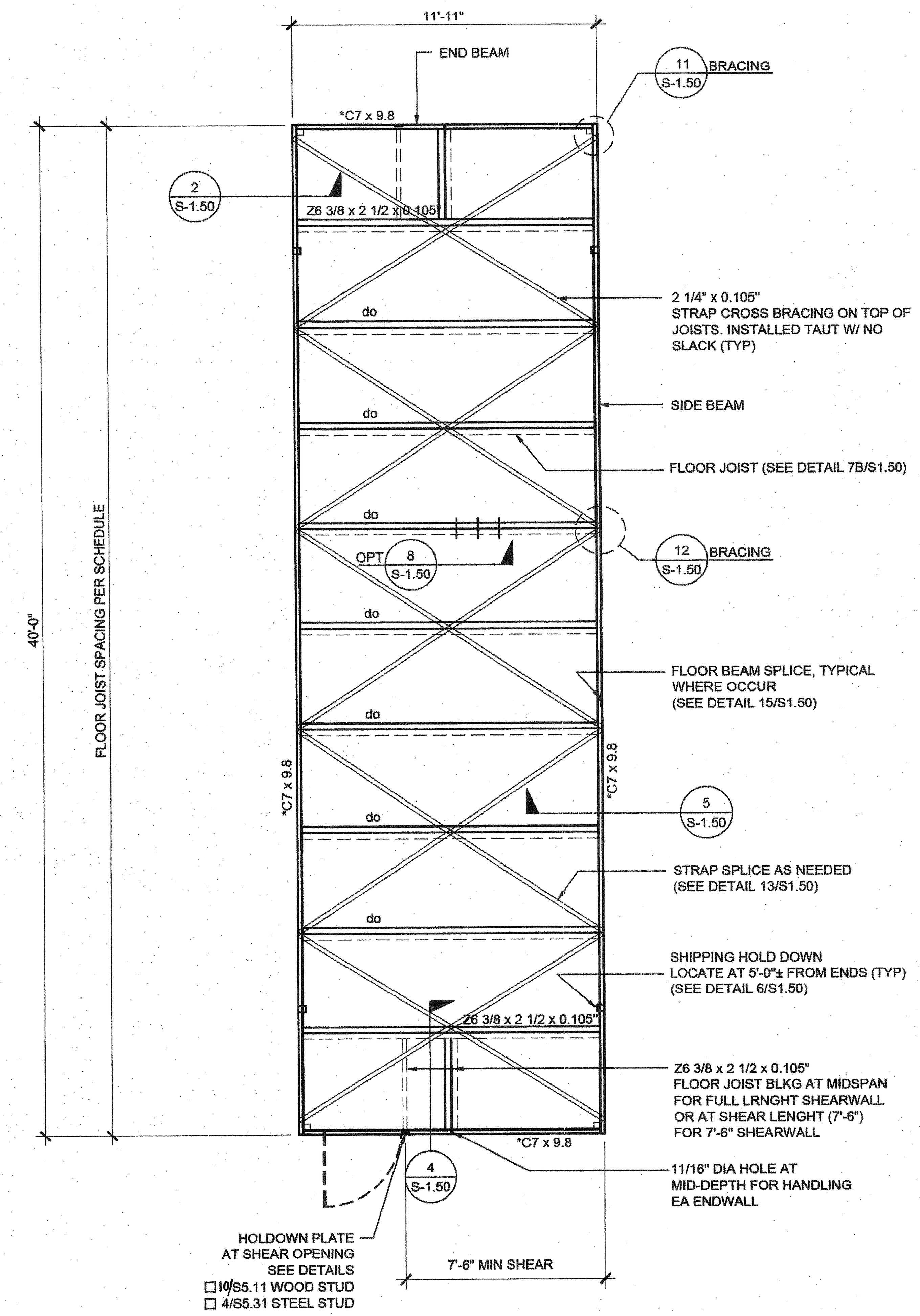
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

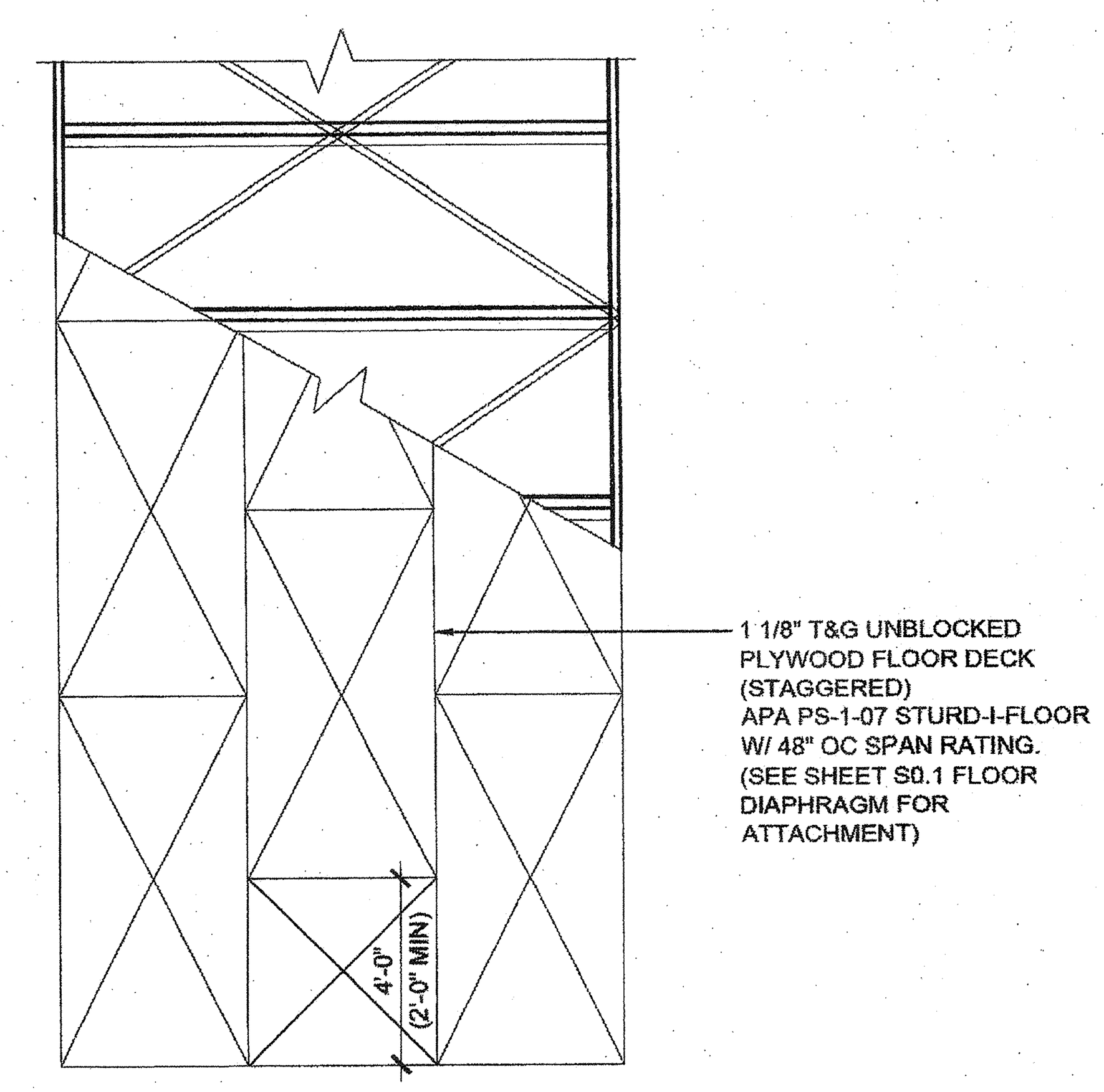
P.C. SHEET NUMBER
S-0.1
- - HIGH SEISMIC - -

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
☐	50	48"
☒	50 + 15	32"
☐	100	24"
☐	150	16"



* NOTE;
FLOOR BEAMS MAY VARY, SEE COLUMN SCHEDULE
SHEET S-3.01 THRU S-3.04



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FLOOR FRAMING PLAN

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

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PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING PLAN
WOOD FLOOR

TAVARES ASSOCIATES

LICENSED ARCHITECT C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA 6-25-2014

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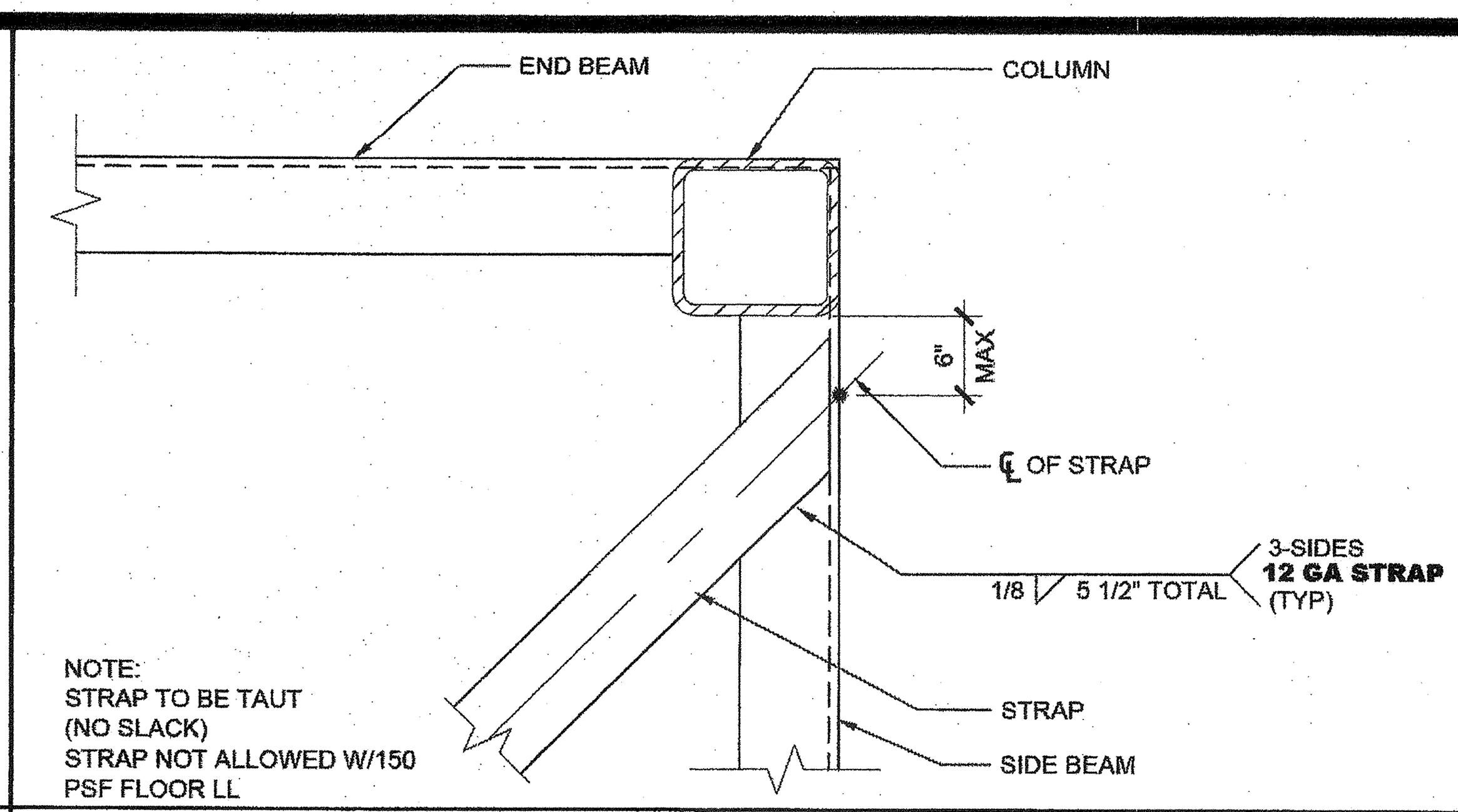
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

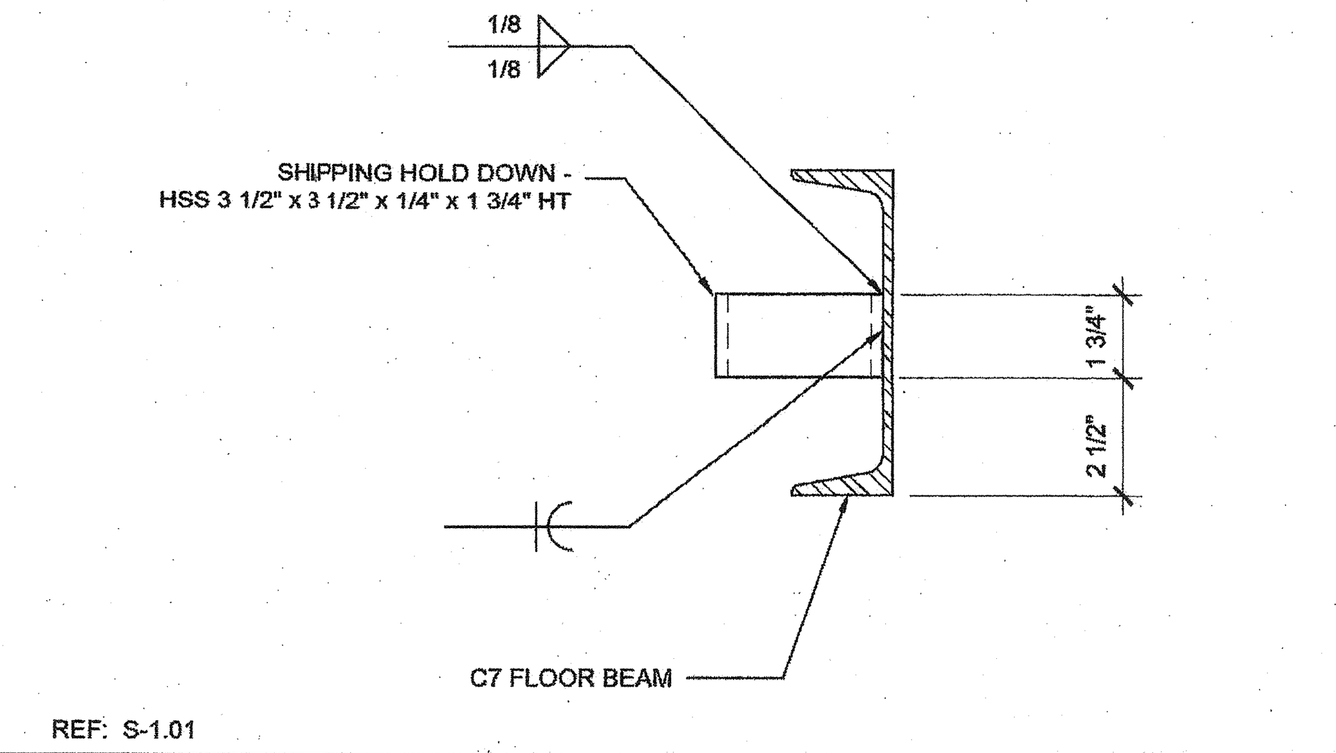
P.C. SHEET NUMBER

S-1.01

- - HIGH SEISMIC - -



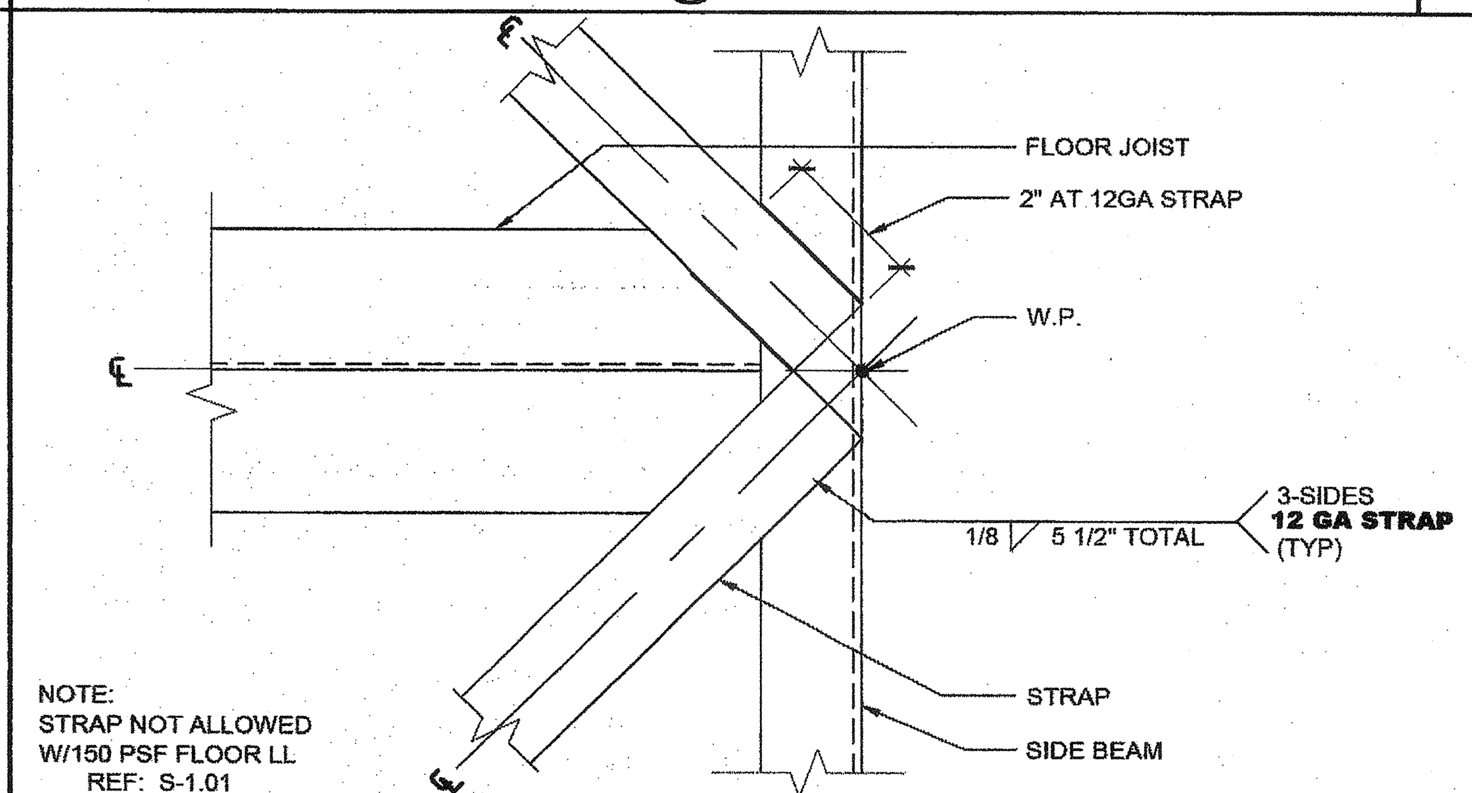
16 FLOOR BRACING STRAP @ END WALL SCALE : 3"=1'-0"



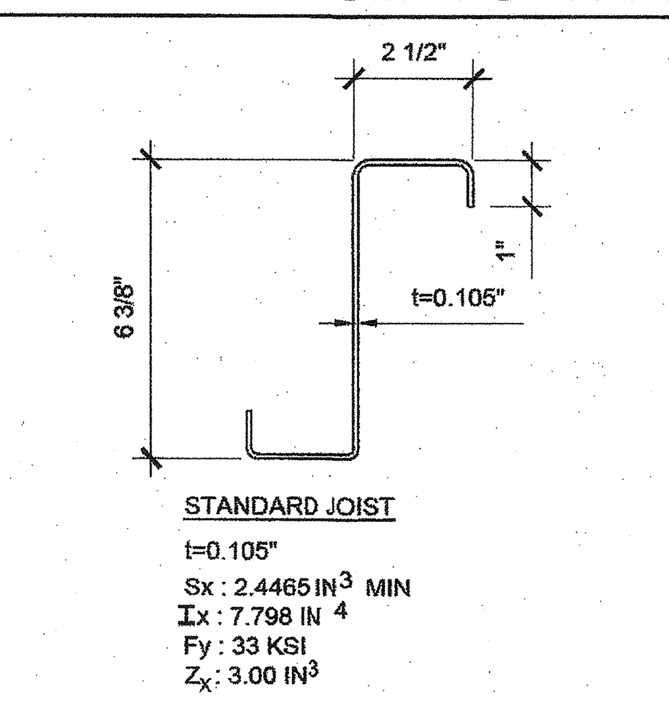
11 SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0"

6

1



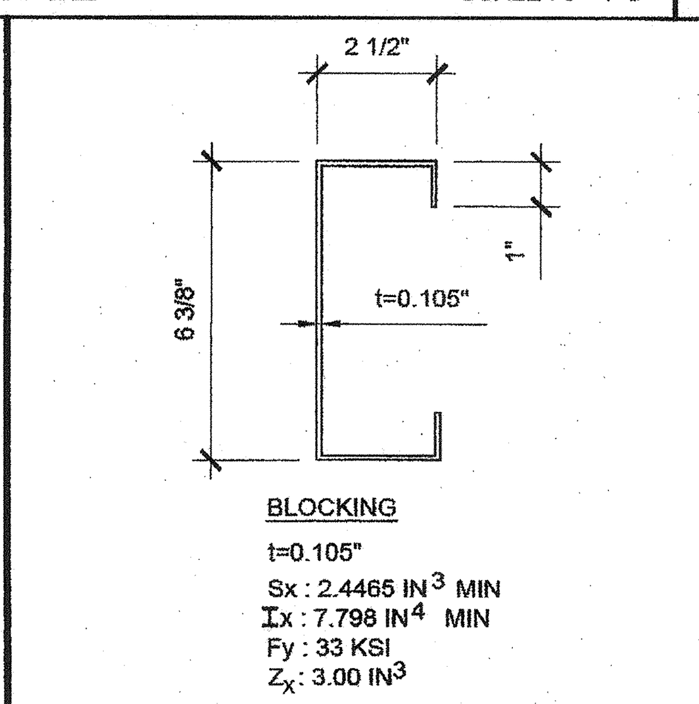
17 FLOOR BRACING STRAP @ SIDE WALL SCALE : 3"=1'-0"



ASTM A-1011, GRADE 33

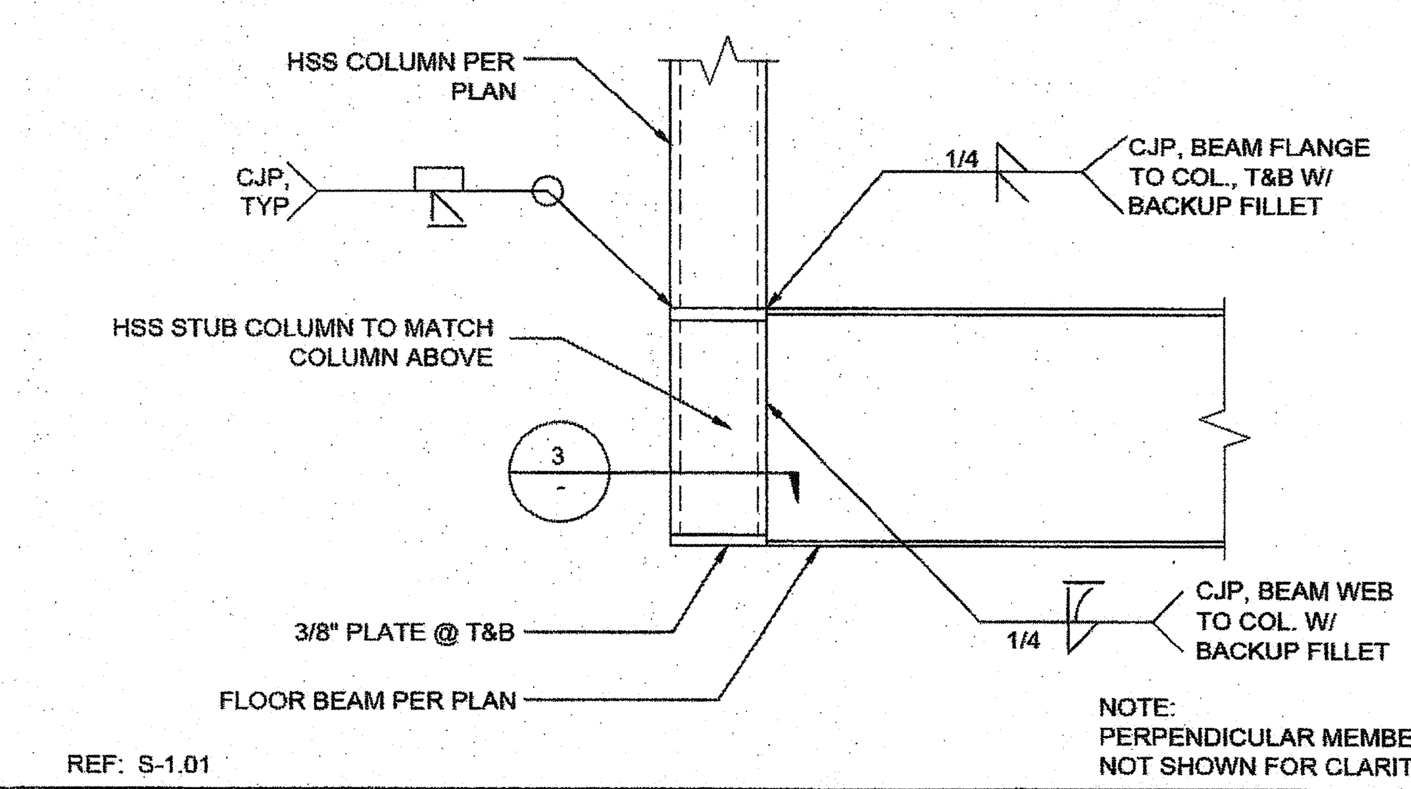
REF: S-1.01

12 FLOOR JOIST SCALE : 3" = 1'-0" 7B

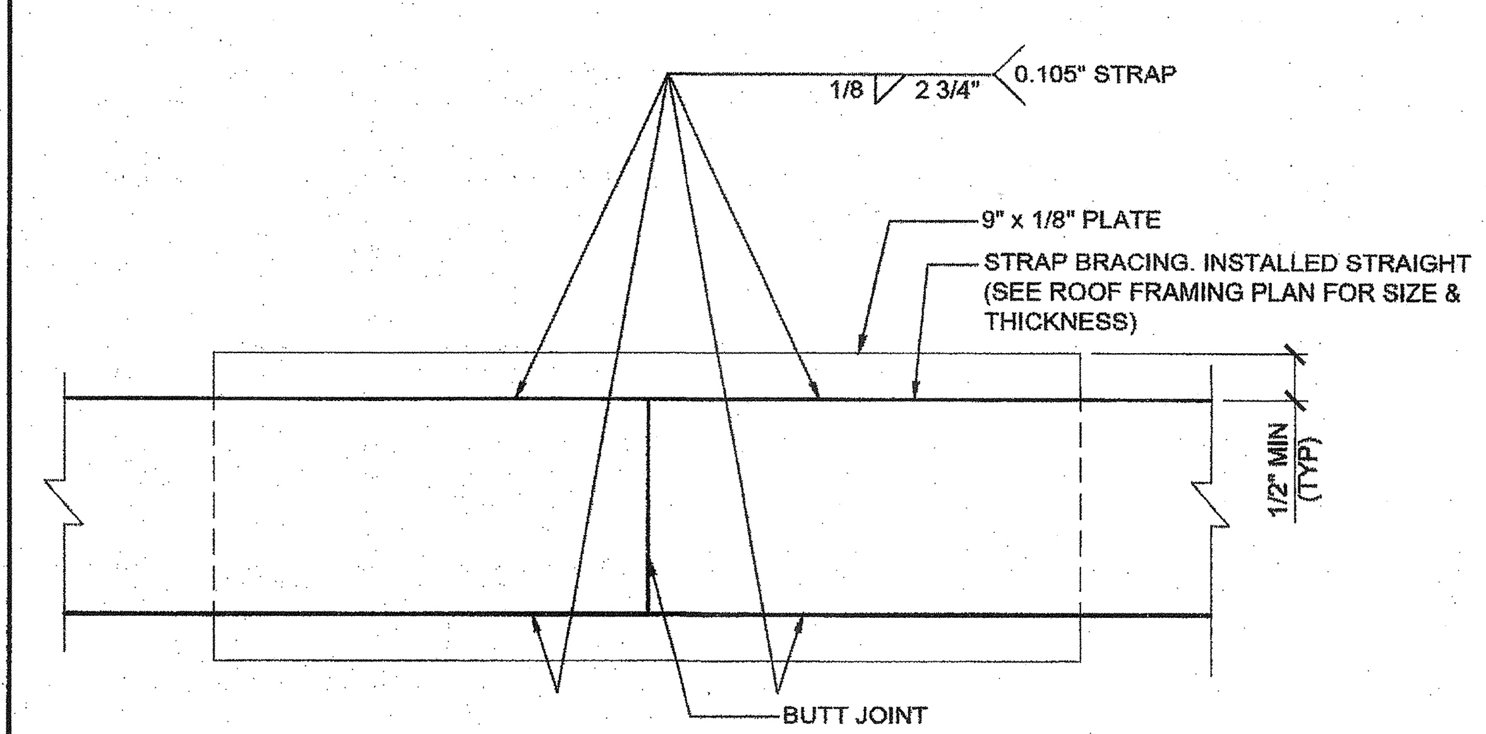


ASTM A-1011, GRADE 33

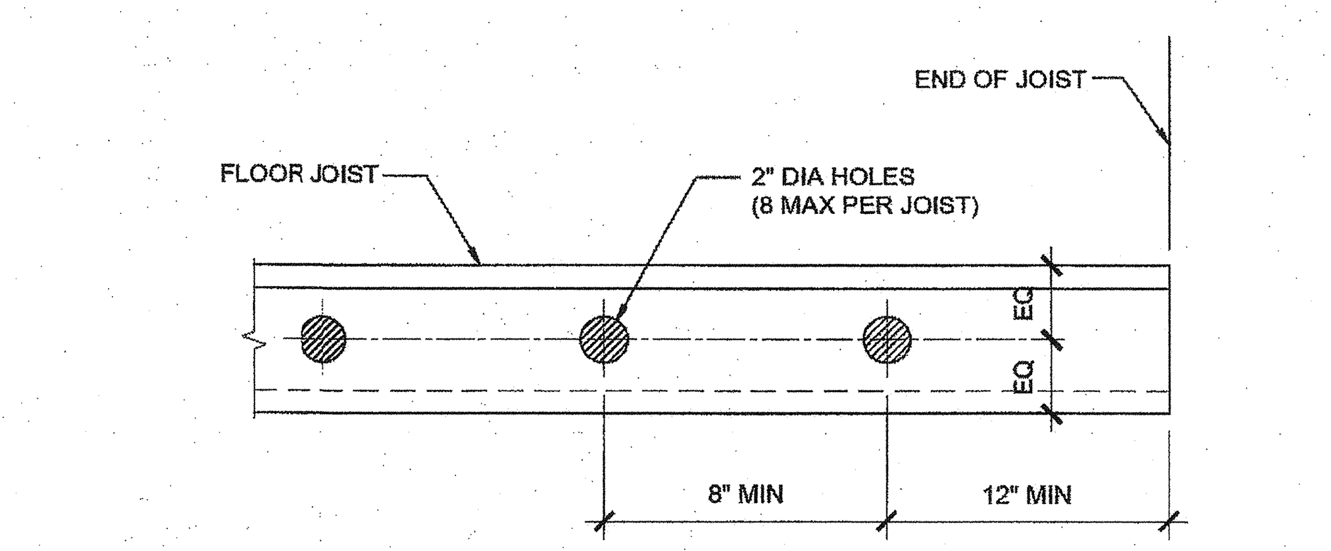
BLOCKING SCALE : 3" = 1'-0" 7A



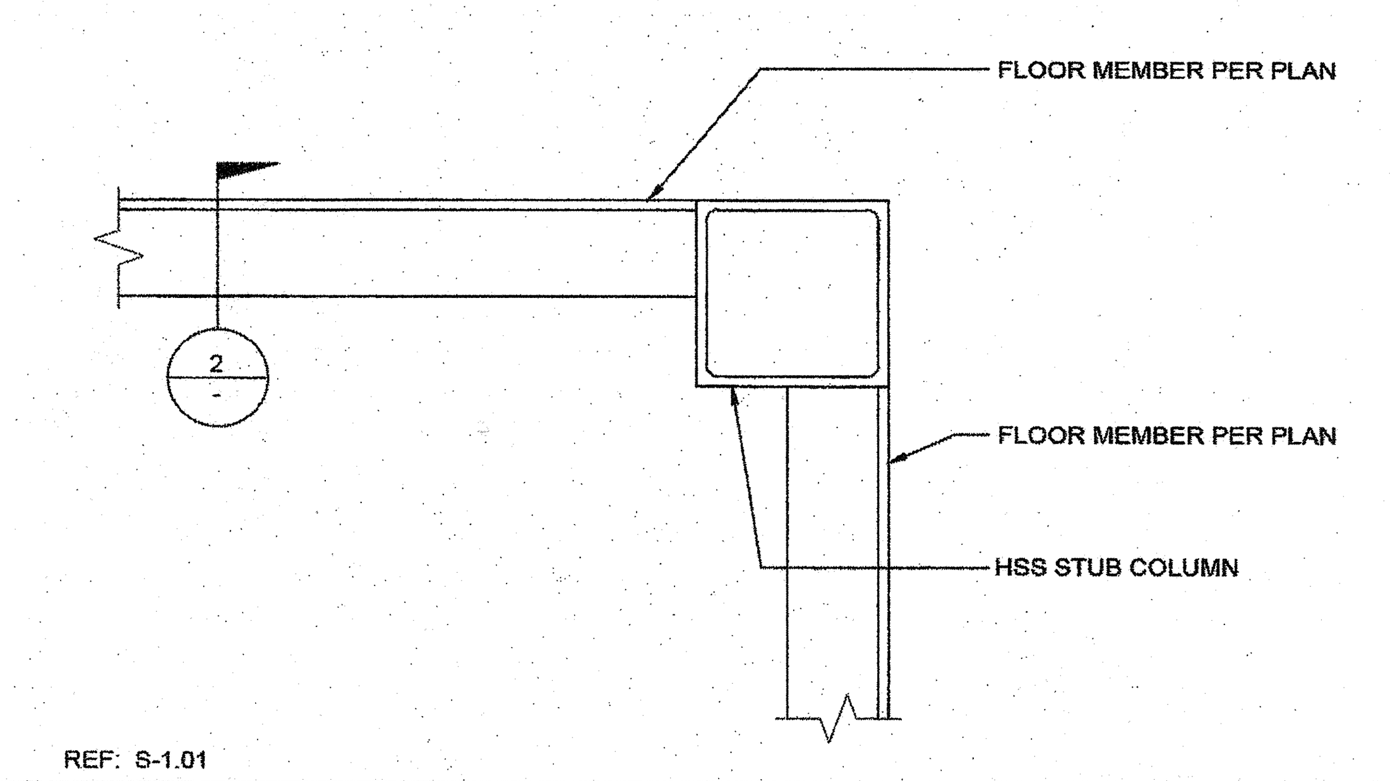
FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0" 2



18 STRAP SPLICE DETAIL SCALE : 6" = 1'-0" 13



FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0" 8



CORNER CONNECTION SCALE : 3" = 1'-0" 3

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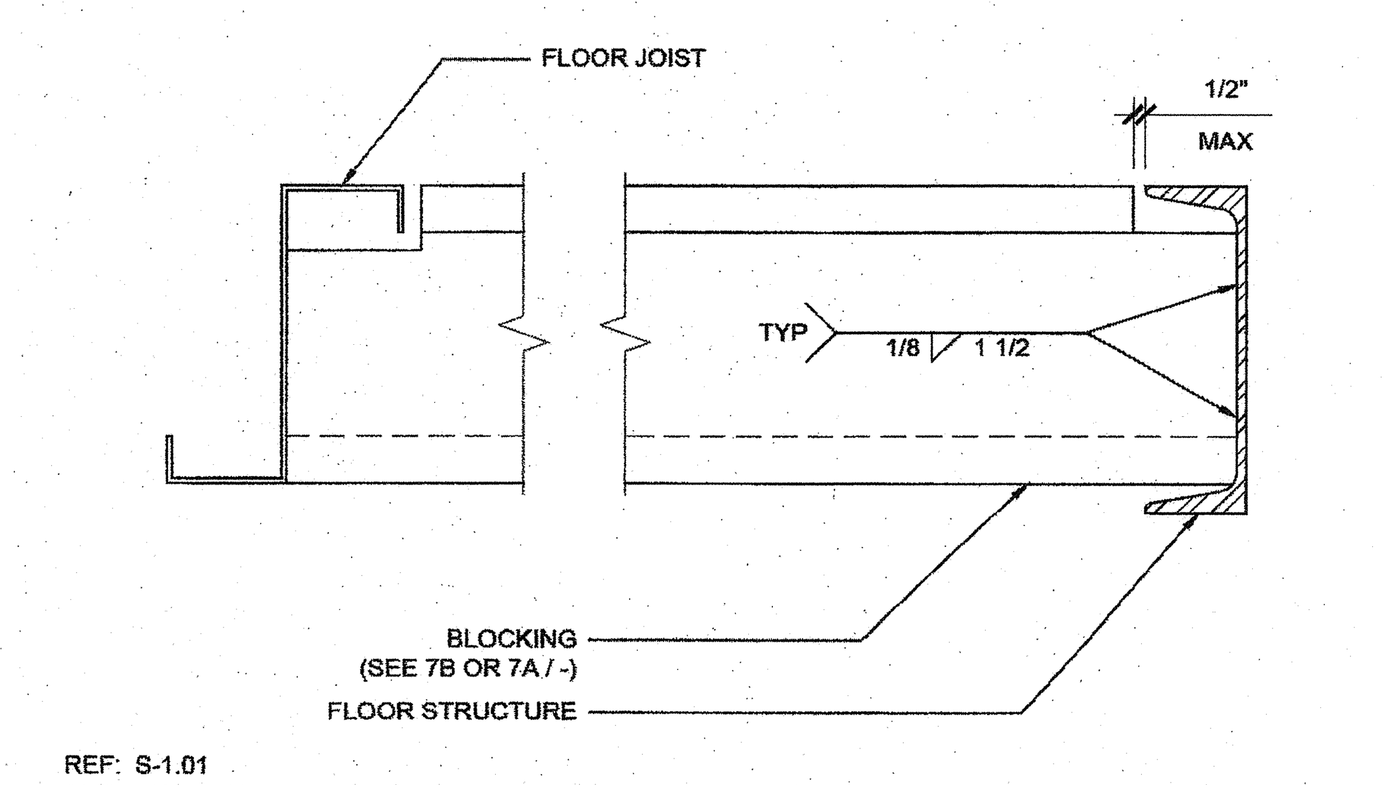
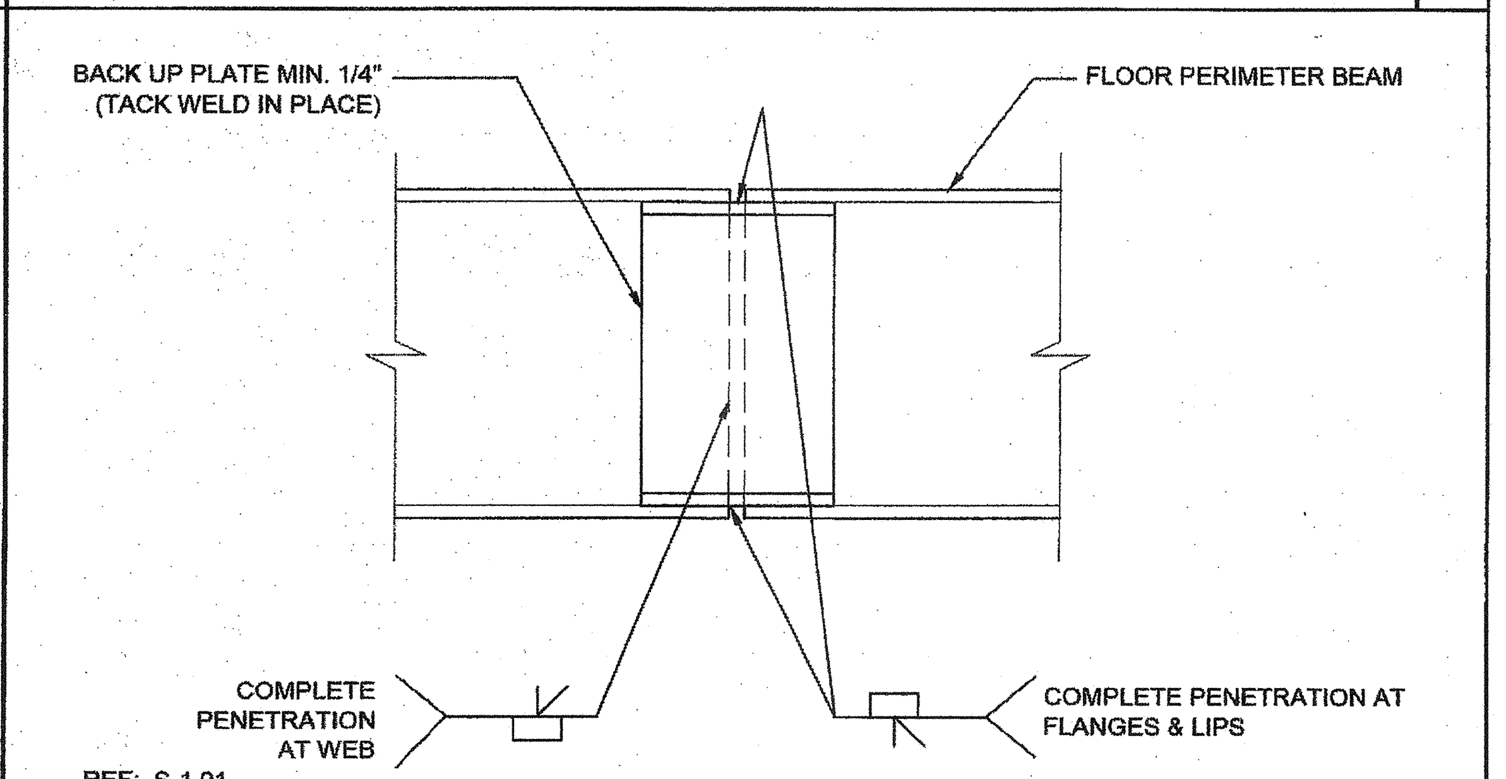
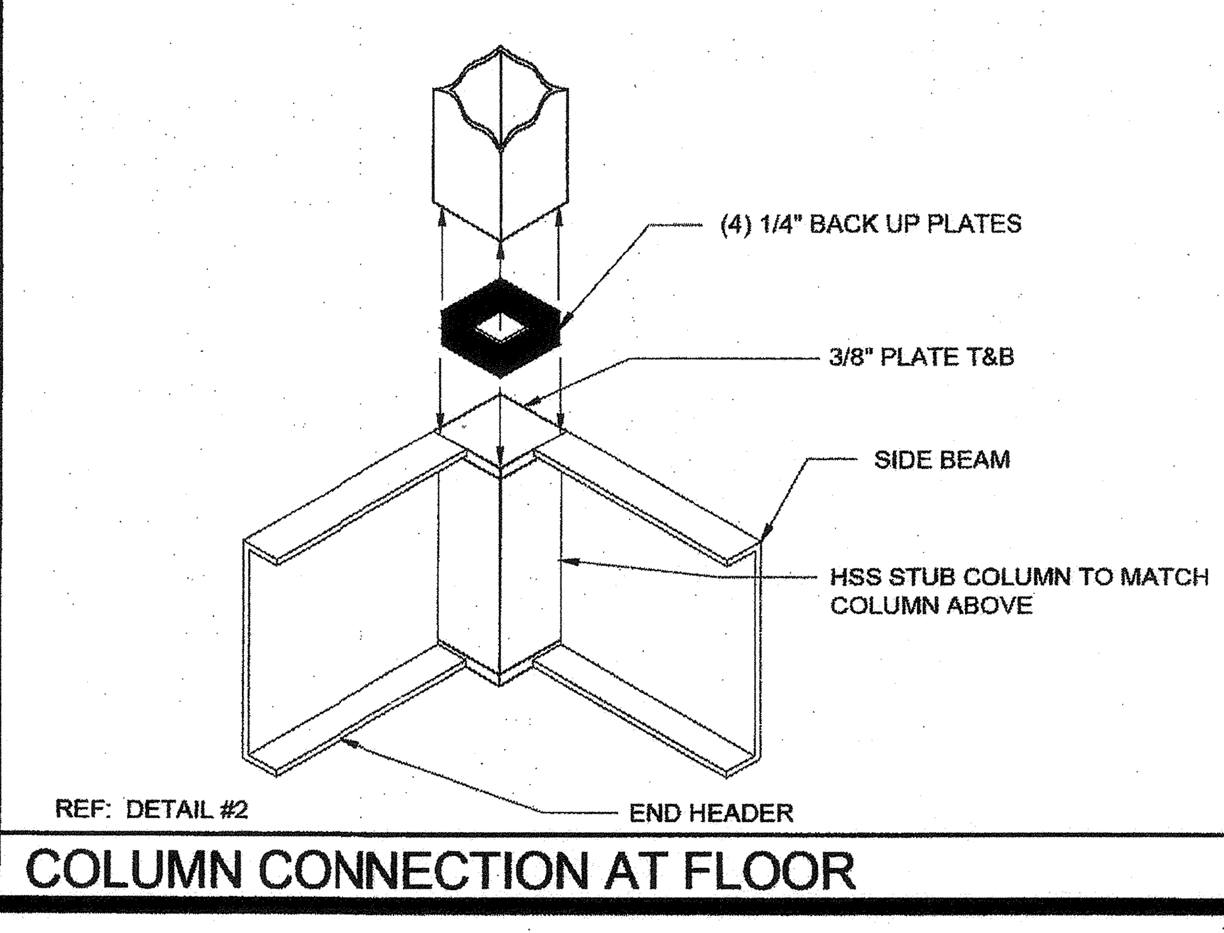


BLOCKING TO END BEAM SCALE : 3" = 1'-0" 4

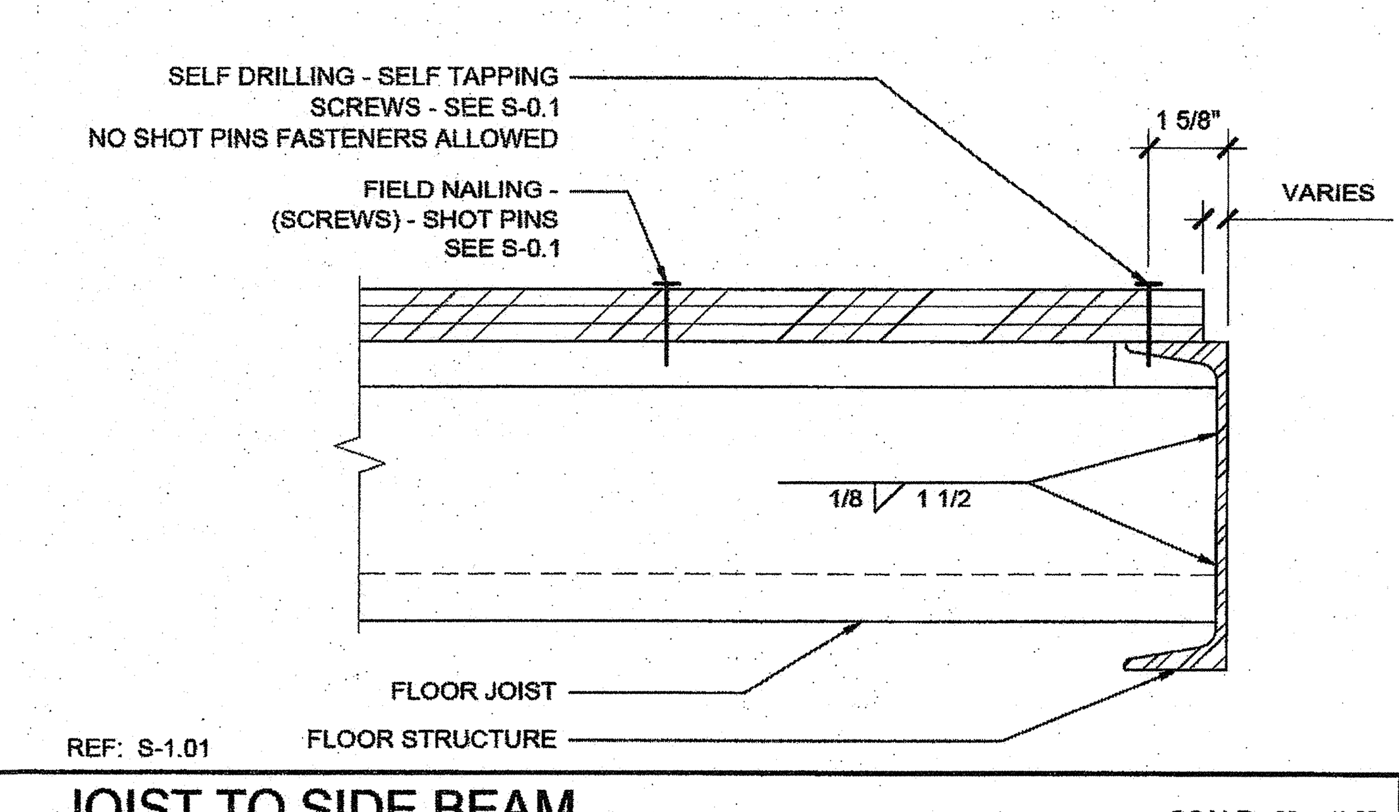
19 NOT USED 14



20 FLOOR BEAM SPLICE SCALE : 3" = 1'-0" 15



COLUMN CONNECTION AT FLOOR SCALE : NTS 10



JOIST TO SIDE BEAM SCALE : 3" = 1'-0" 5

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PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING DETAILS

WOOD FLOOR

TAVARES ASSOCIATES

LICENSED ARCHITECT JACK SHIVELY III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA 6-25-2014

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116 AC FLS SS DATE JUL 27 2017

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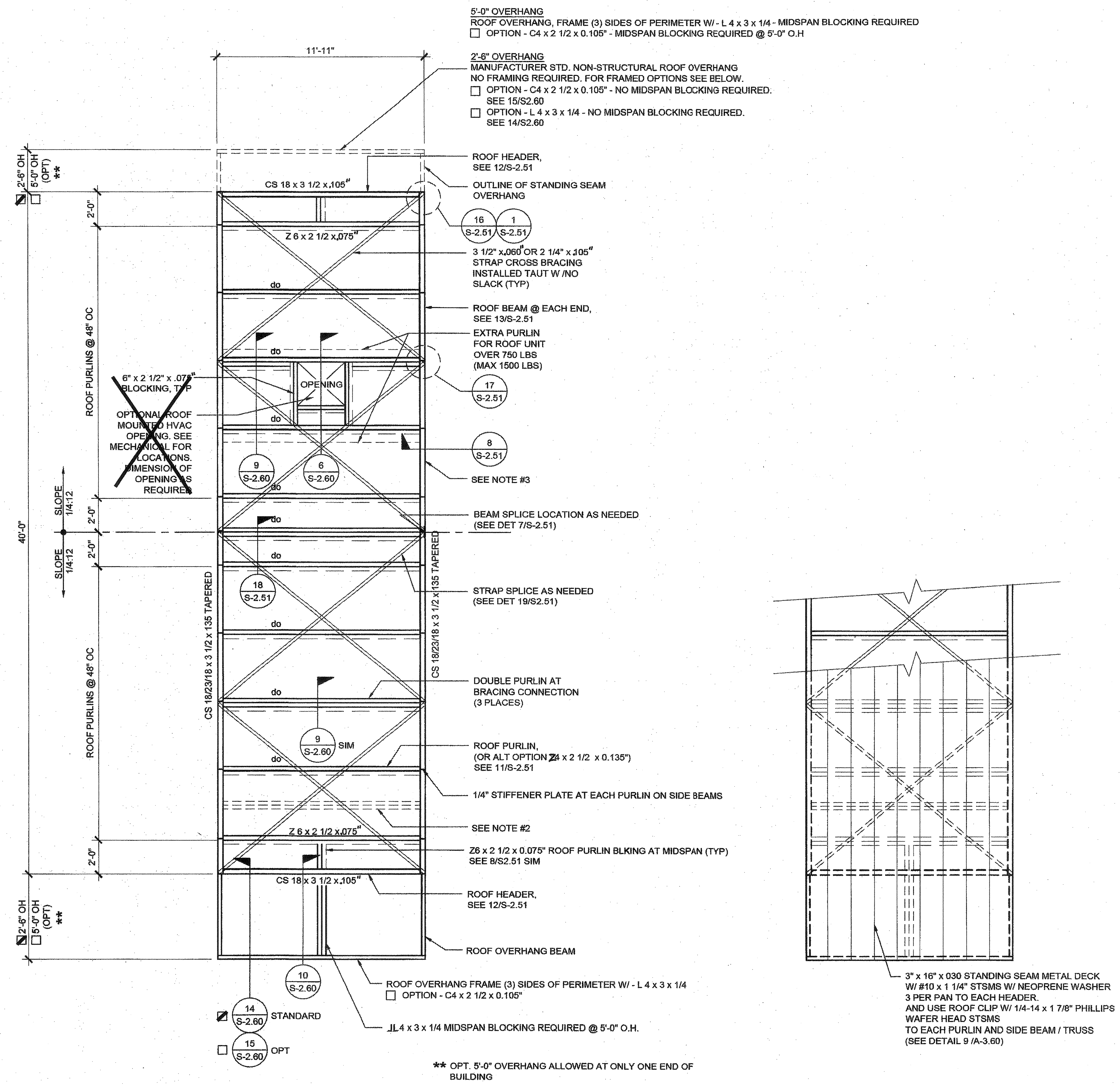
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

S-1.50

- - HIGH SEISMIC - -



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

NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15 / S-2.51 FOR DETAILS.
2. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S2.50 OR 14 / S2.51 DETAILS
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING PLAN
0.030" - DUAL SLOPE

TAVARES ASSOCIATES

LICENSED ARCHITECT — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — No. S3380 — STRUCTURAL — STATE OF CALIFORNIA — 6-25-2014

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116… AC FLS SS DATE JUL 2 2017~~

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REVISIONS

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12' x 40' PC (HIGH SEISMIC)

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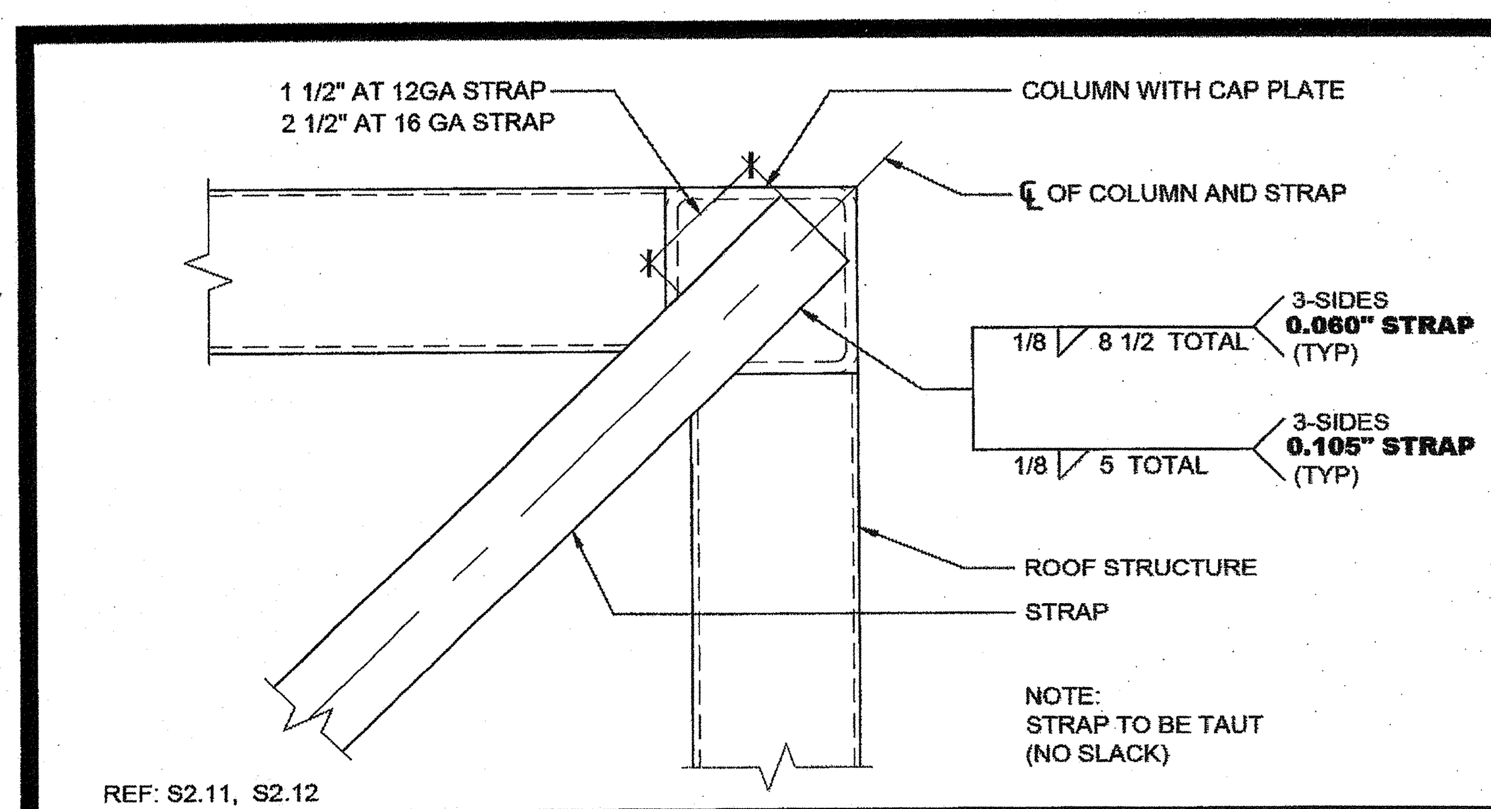
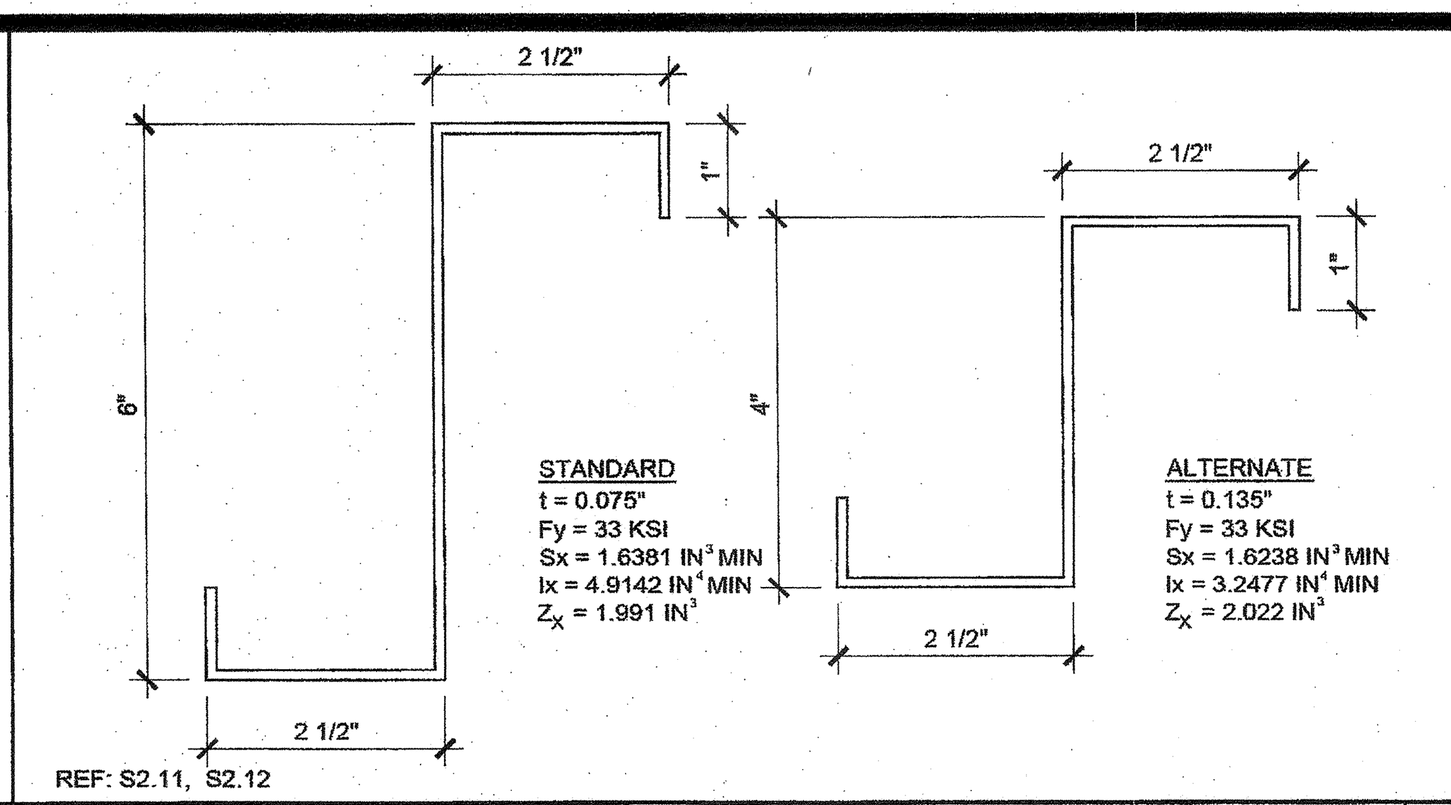
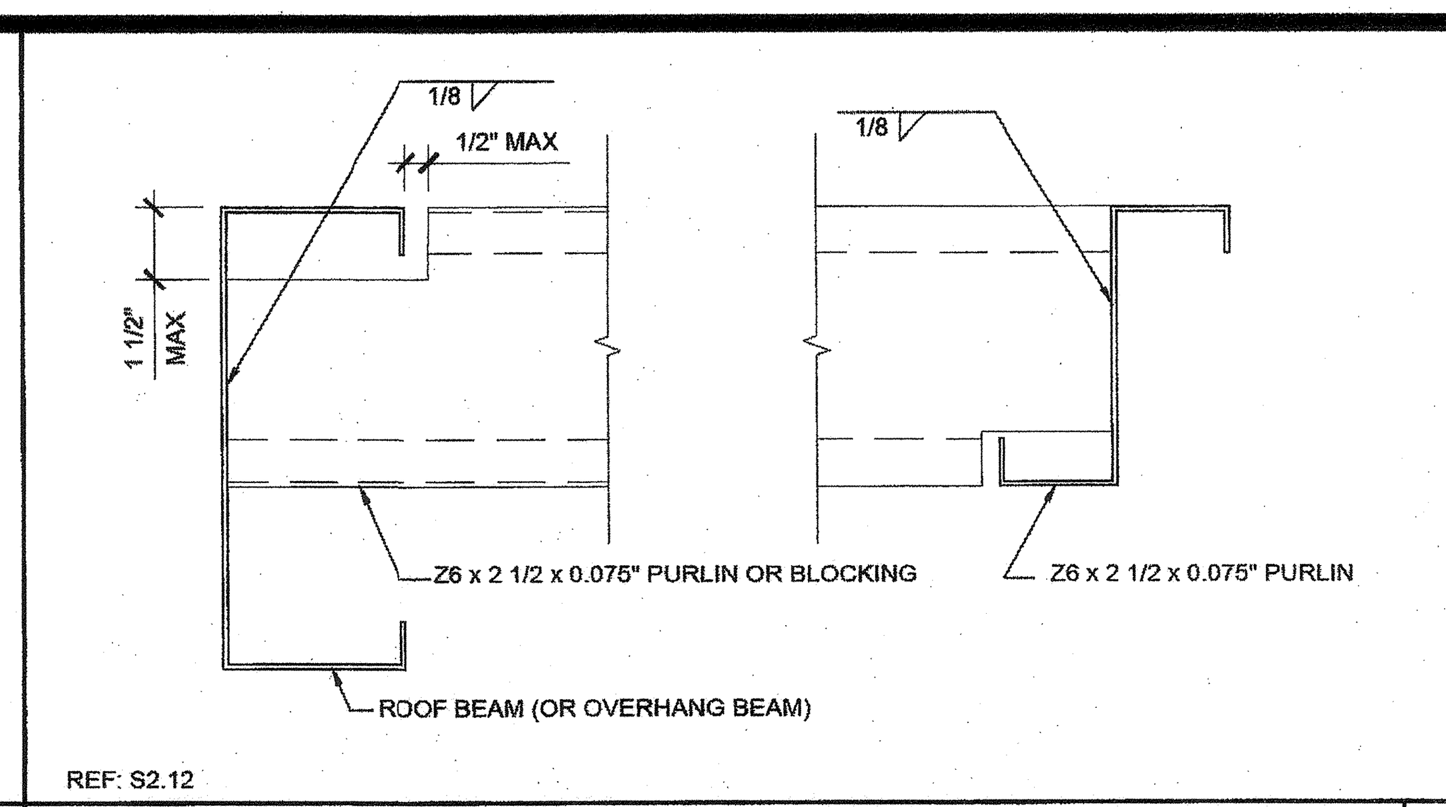
- - HIGH SEISMIC - -



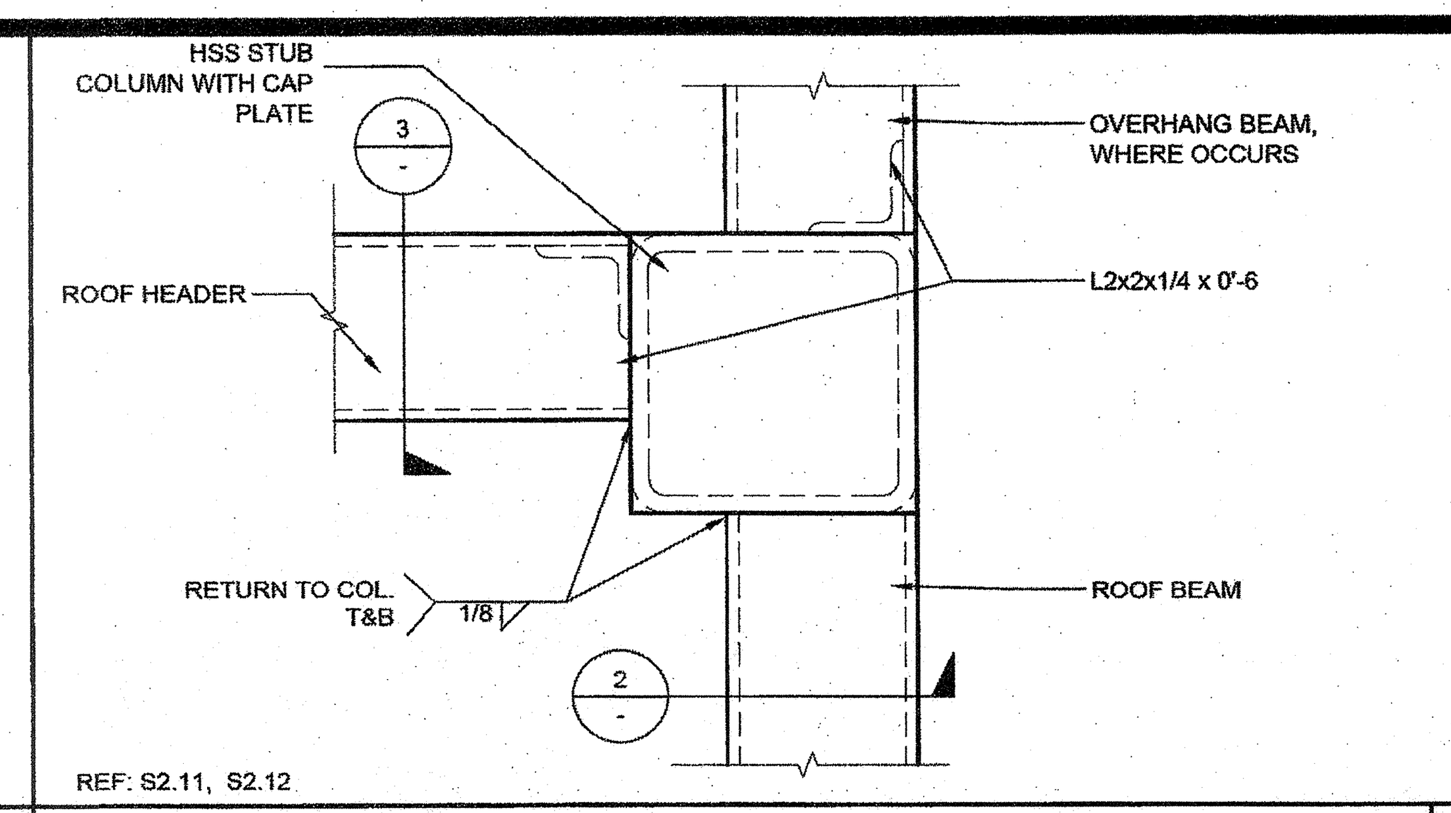
ROOF BRACING STRAP @ END WALL — SCALE : 3"=1'-0" — 16



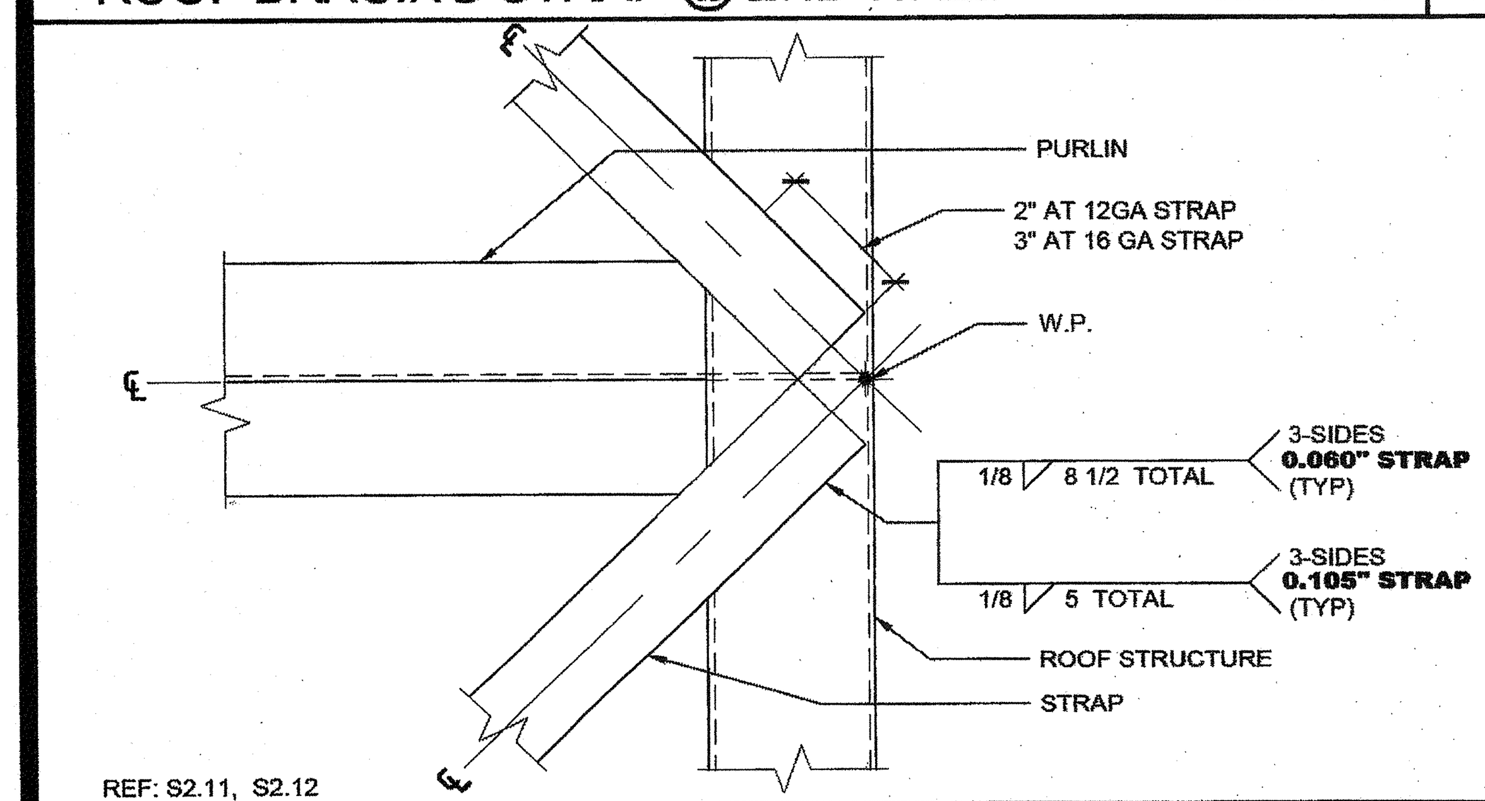
ROOF PURLIN — SCALE : 6"=1'-0" — 11



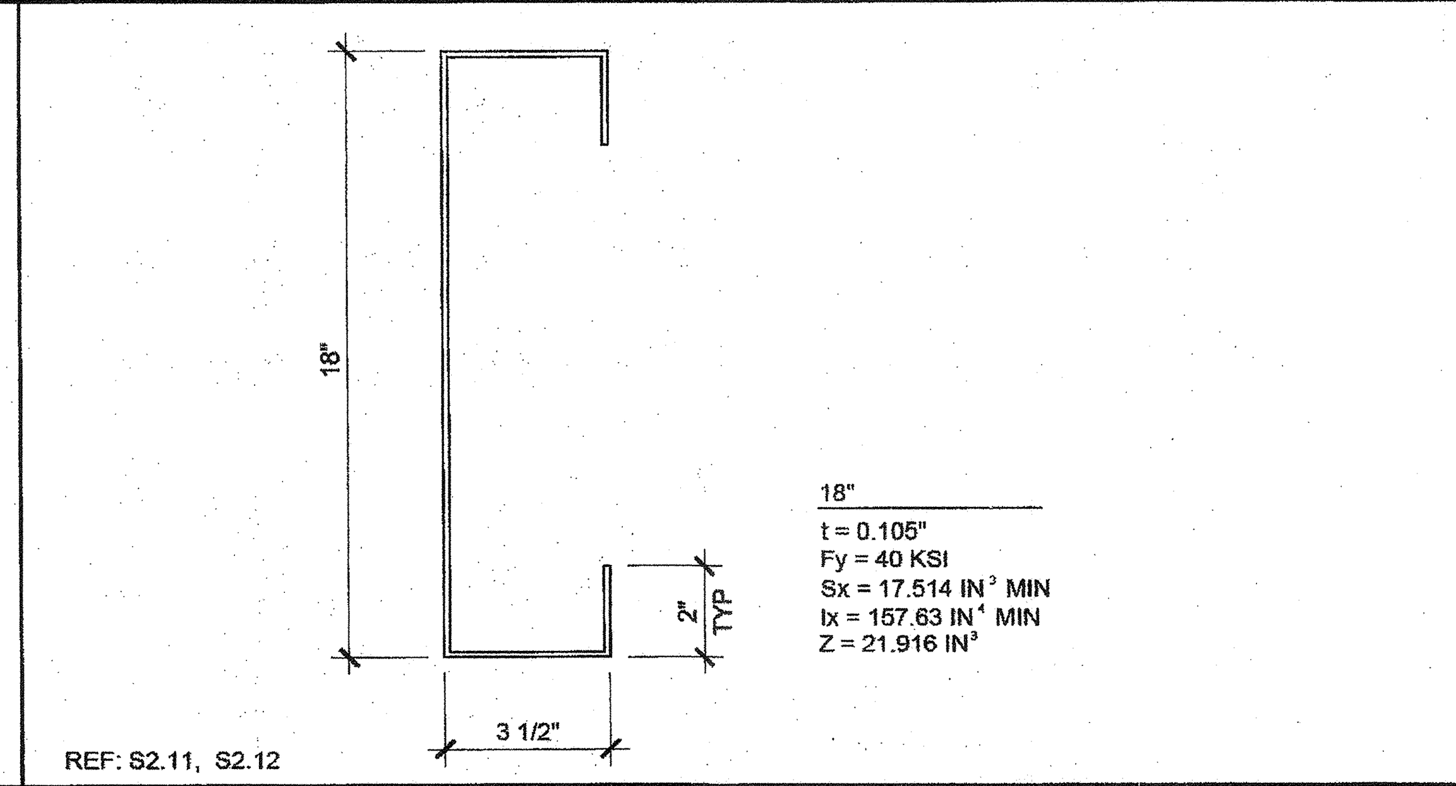
TYPICAL PURLIN CONNECTION DETAIL — SCALE : 3" = 1'-0" — 6



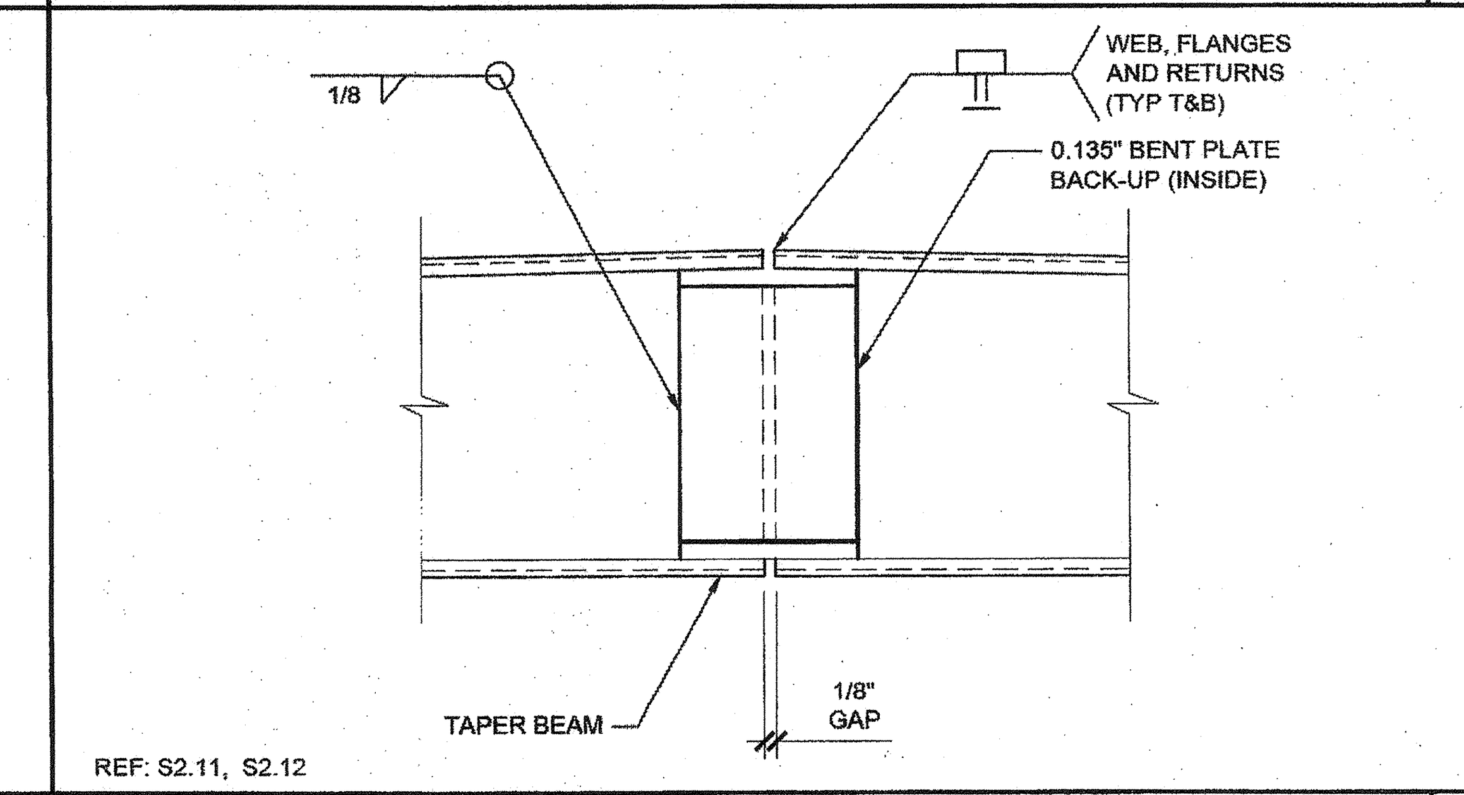
COLUMN AT ROOF - PLAN — SCALE : 3" = 1'-0" — 1



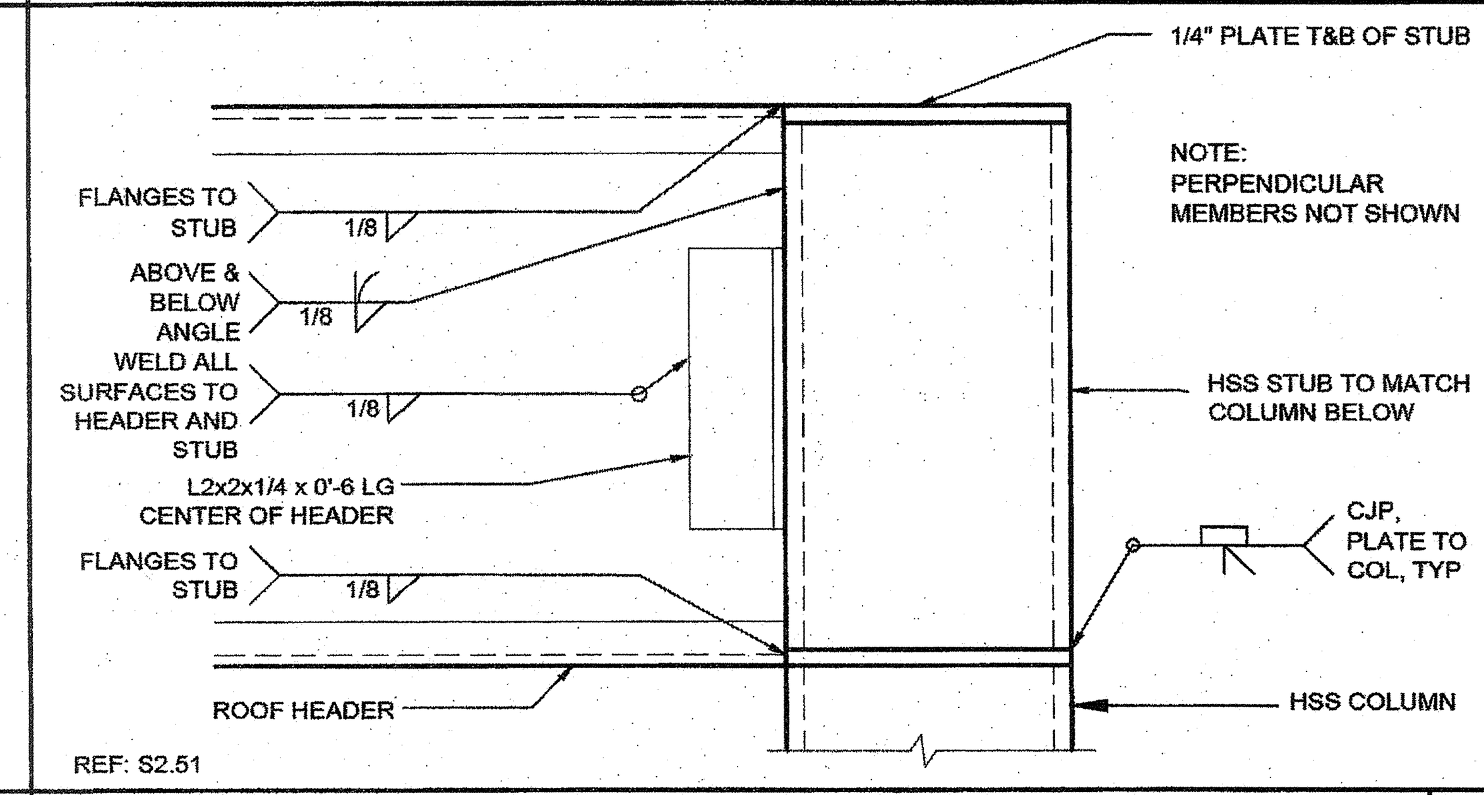
ROOF BRACING STRAP @ SIDE WALL — SCALE : 3"=1'-0" — 17



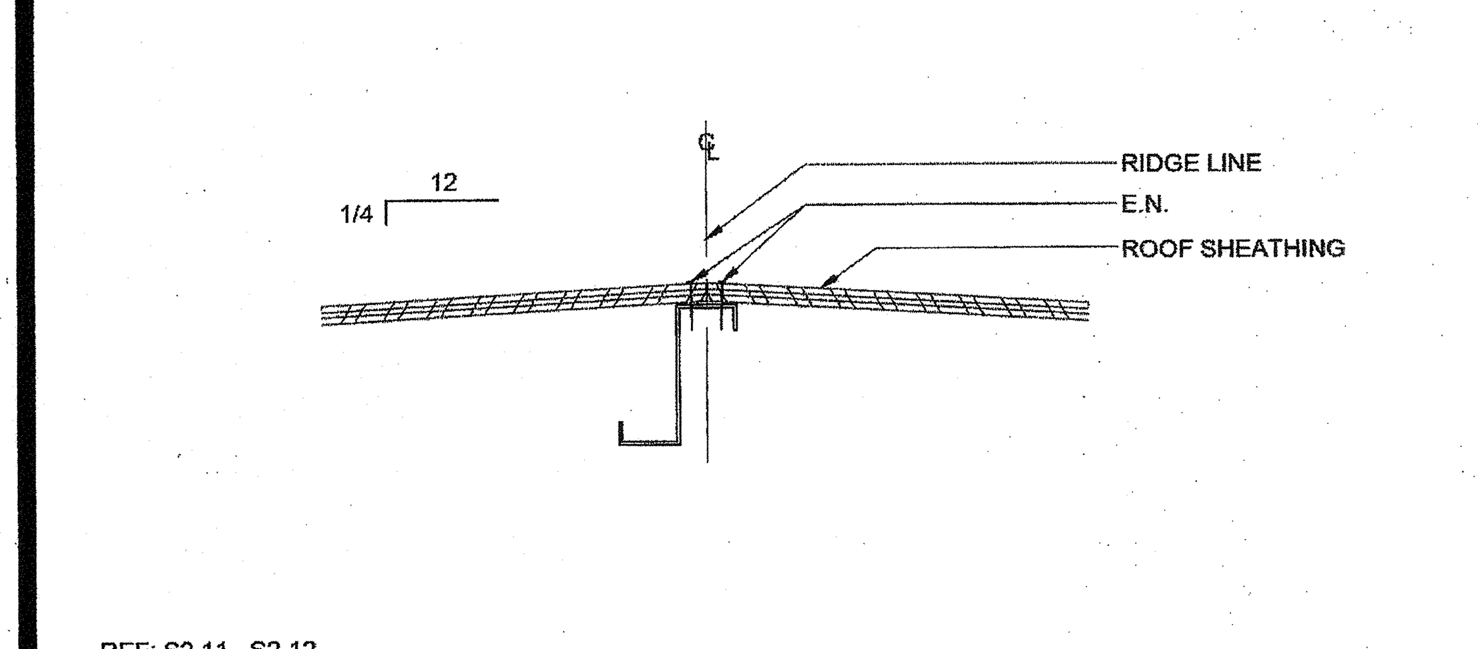
ROOF HEADER — SCALE : NTS — 12



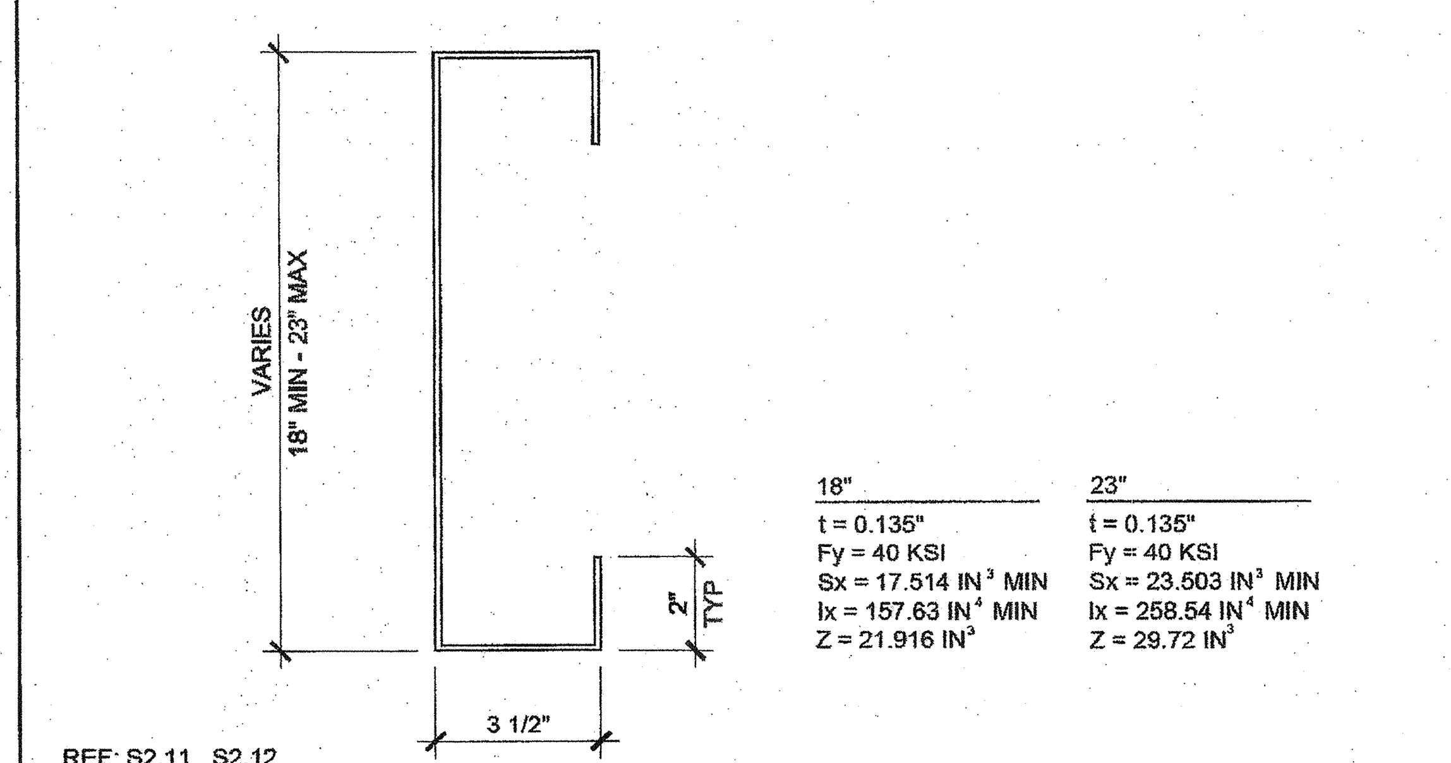
BEAM SPLICE — SCALE: 3" = 1'-0" — 7



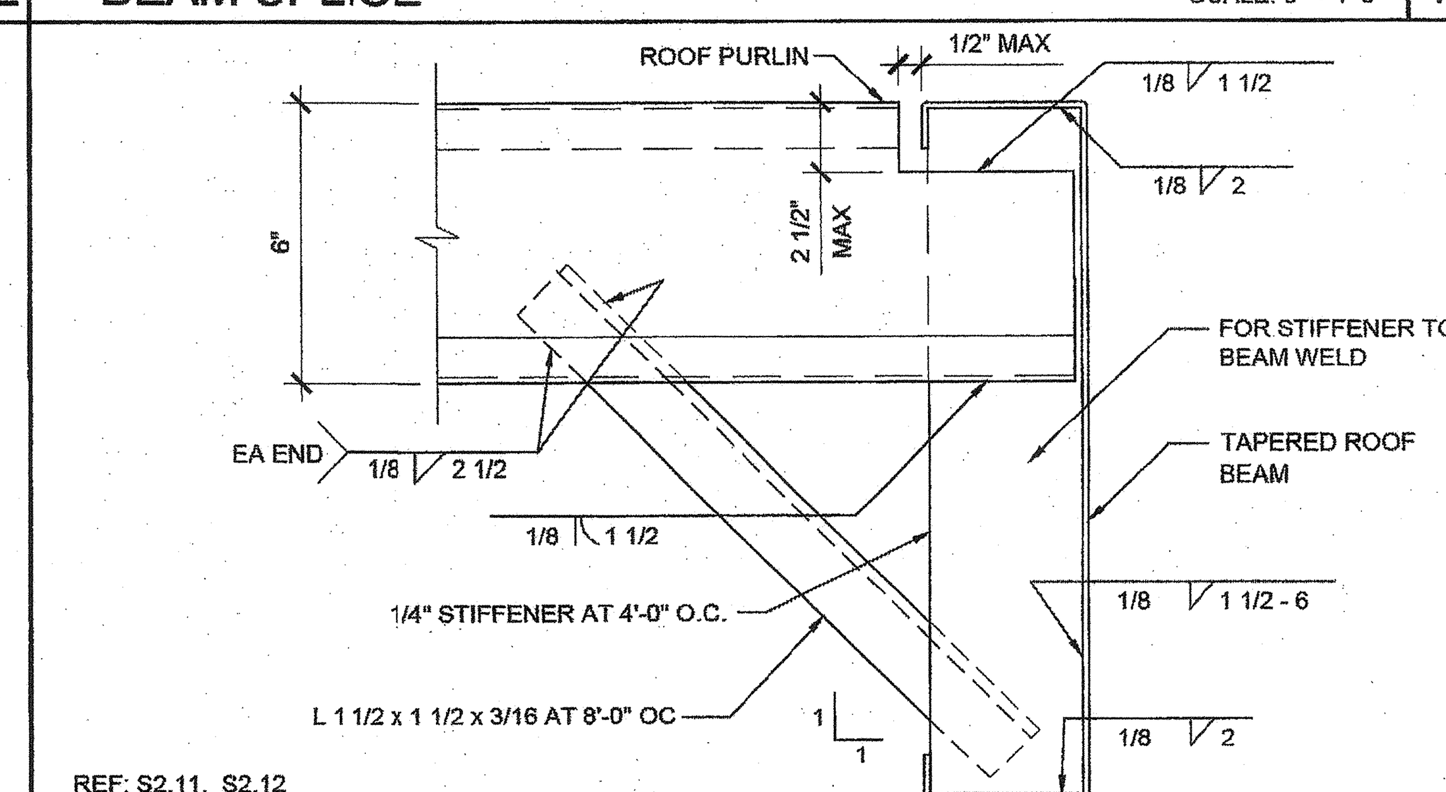
COLUMN AT ROOF - SECTION — SCALE : 3" = 1'-0" — 2



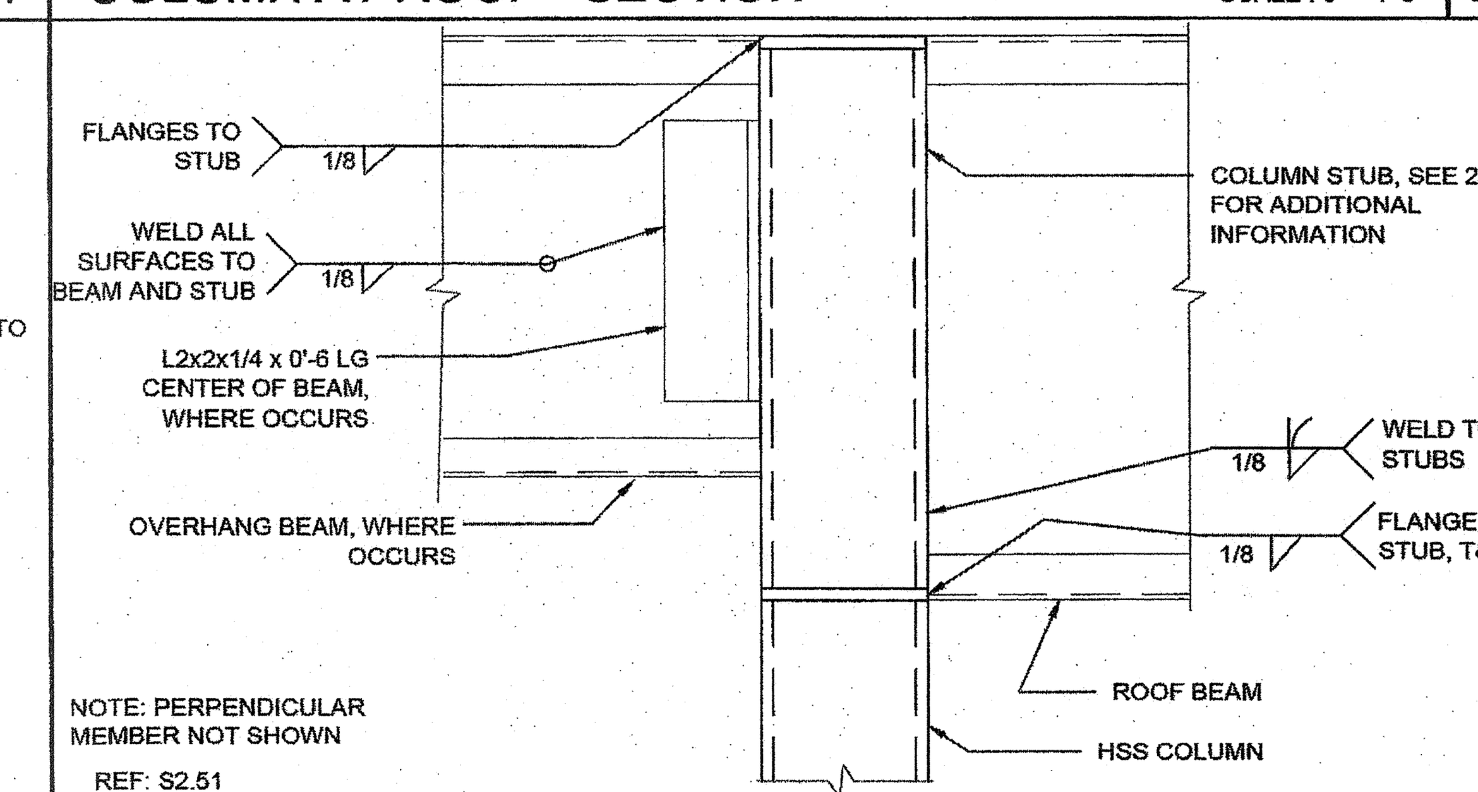
PURLINS AT PLYWOOD ROOF RIDGE — SCALE : 1 1/2"=1'-0" — 18



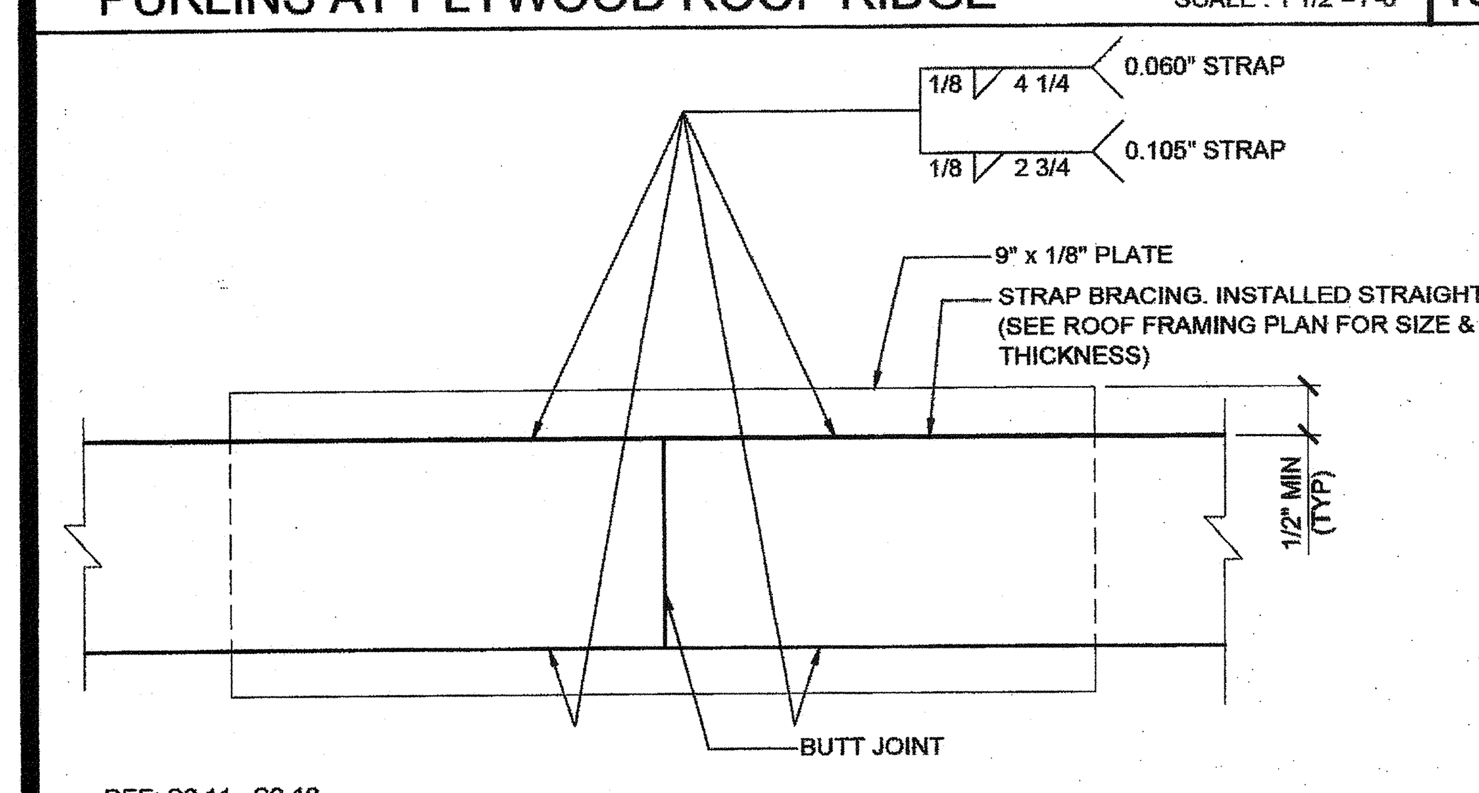
SIDE BEAM — SCALE : NTS — 13



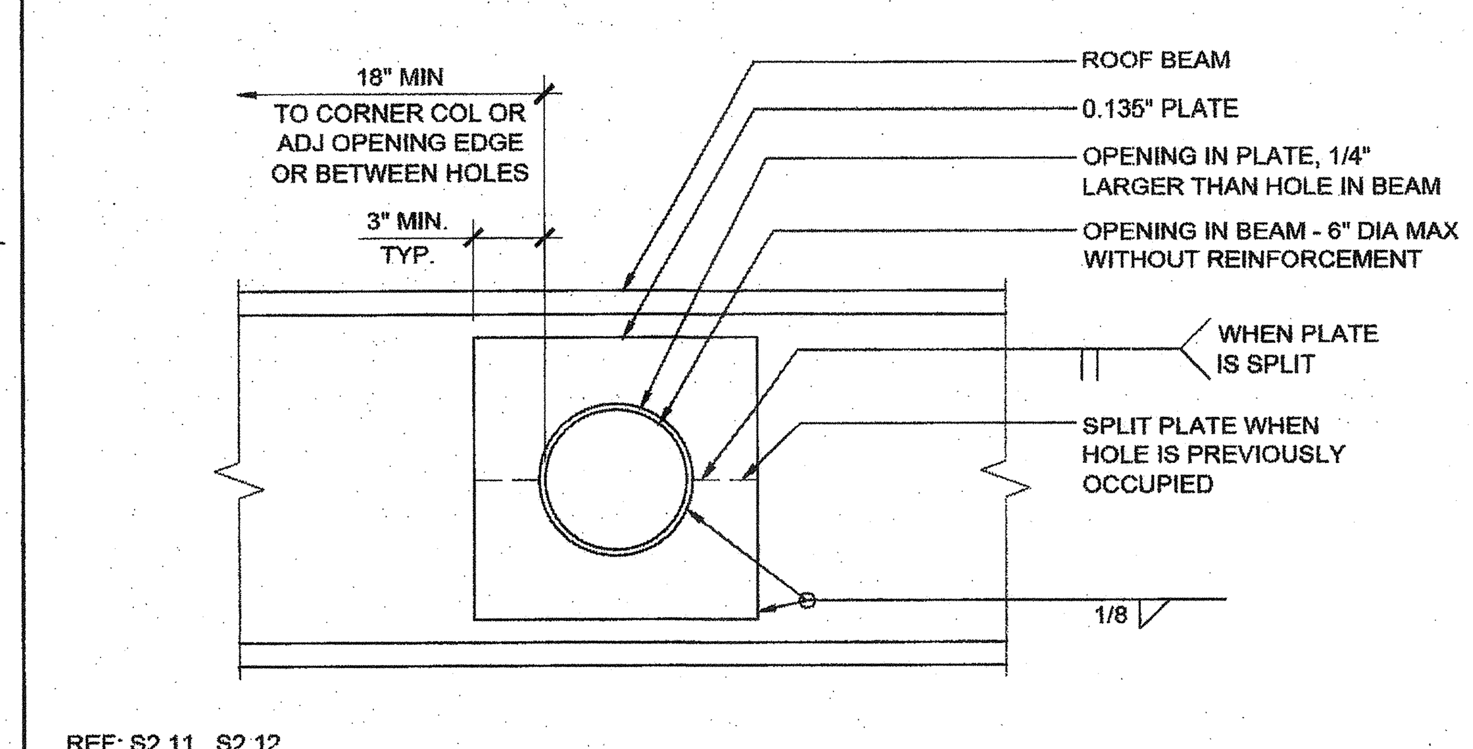
PURLIN TO ROOF BEAM @ STIFFENER — 8



COLUMN AT ROOF OVERHANG — SCALE : 3" = 1'-0" — 3



STRAP SPLICE DETAIL — SCALE : 6" = 1'-0" — 19



SIDEWALL BEAM PENETRATION — SCALE : 1 1/2"=1'-0" — 14

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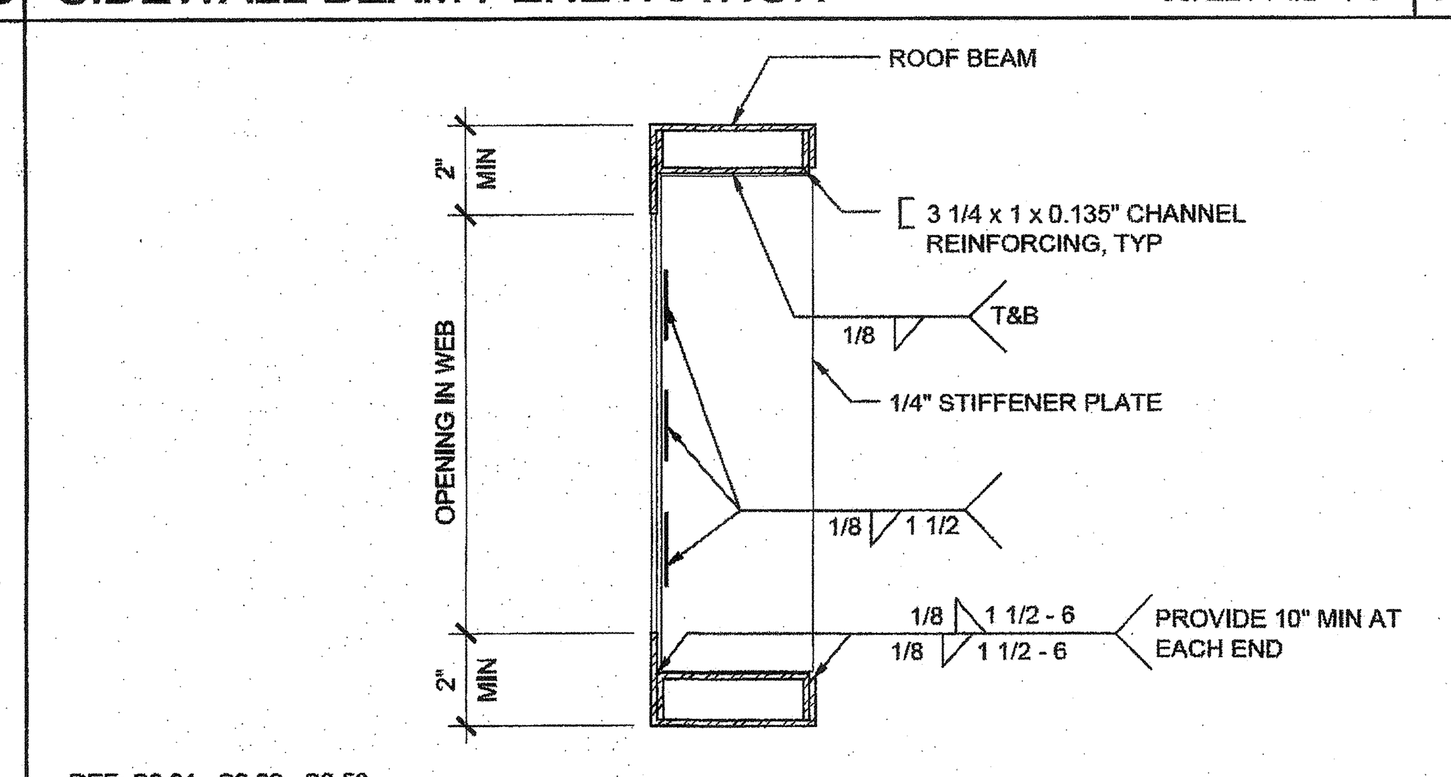
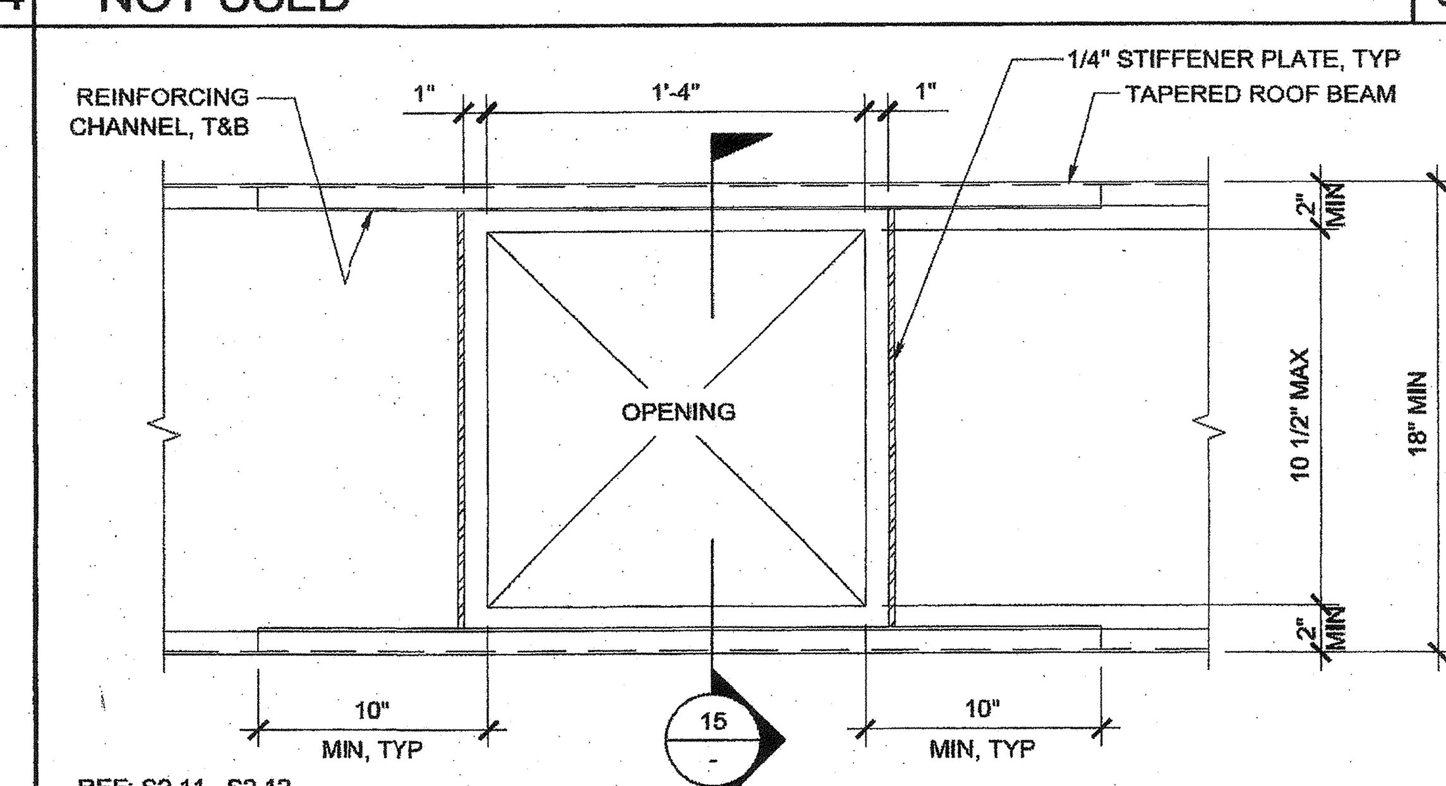
NOT USED — 9

NOT USED — 4

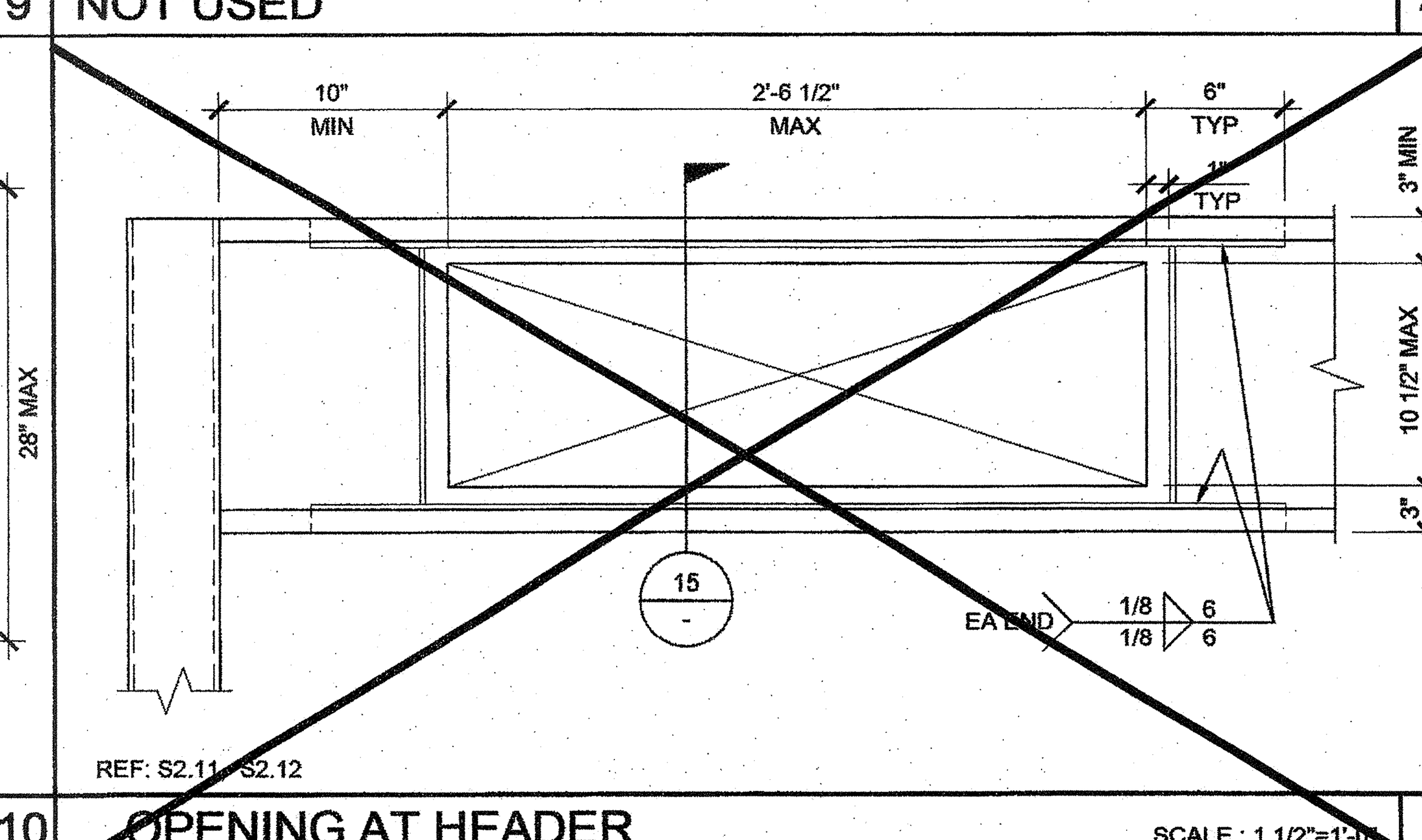
20



WEB OPENING AT ROOF HEADER — SCALE : 3" = 1'-0" — 15



OPENING AT ROOF BEAM (OPTION) — SCALE : 1 1/2" = 1'-0" — 10



~~OPENING AT HEADER~~ — SCALE : 1 1/2"=1'-0" — 5

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PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
DUAL SLOPE

TAVARES ASSOCIATES

LICENSED ARCHITECT — C-33457 — REN 01-31-2015 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — No. S3380 — STRUCTURAL — STATE OF CALIFORNIA — 6-25-2014

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP~~
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~~04 116517~~
~~ACS ✓ FLS ✓ SS~~
~~DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
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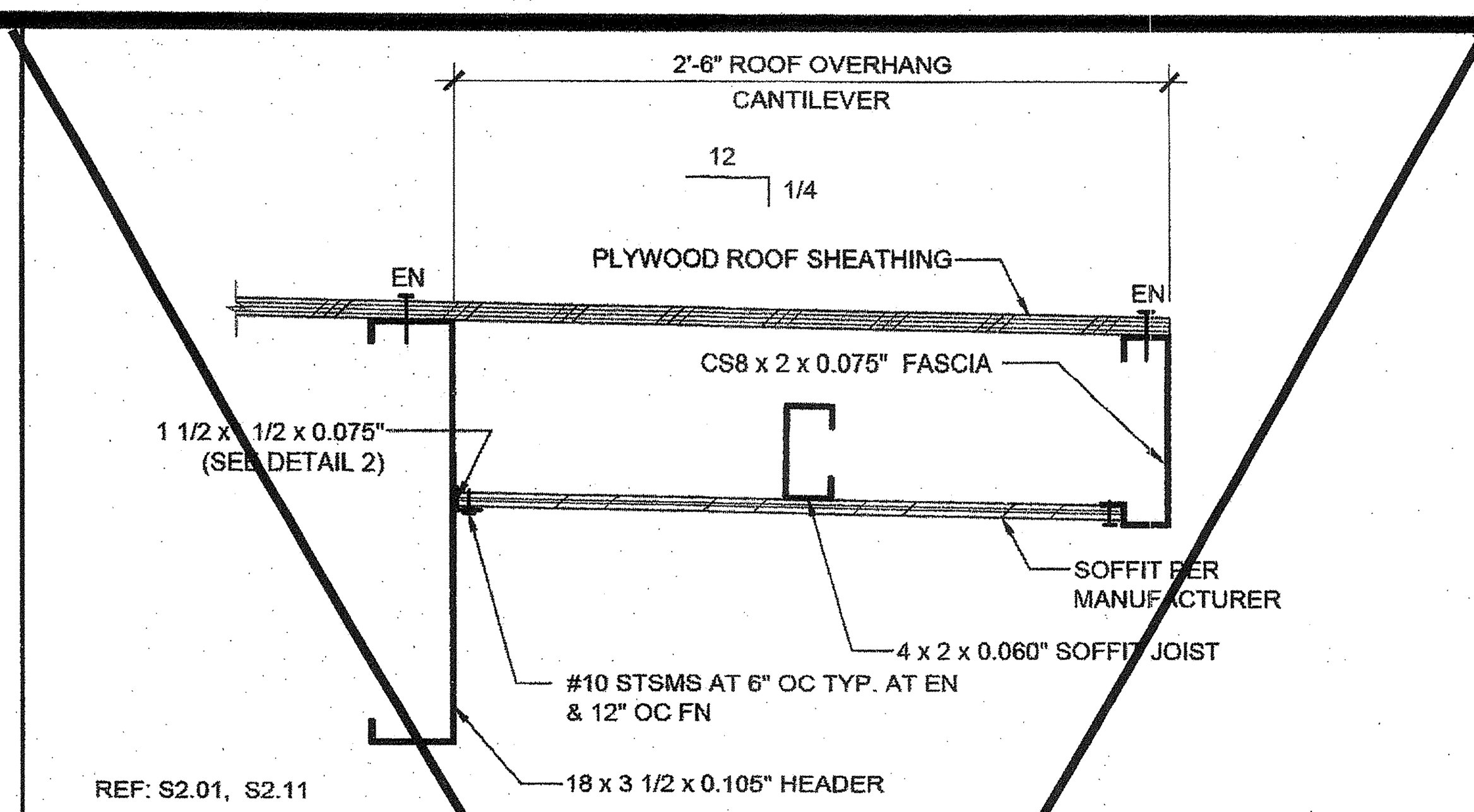
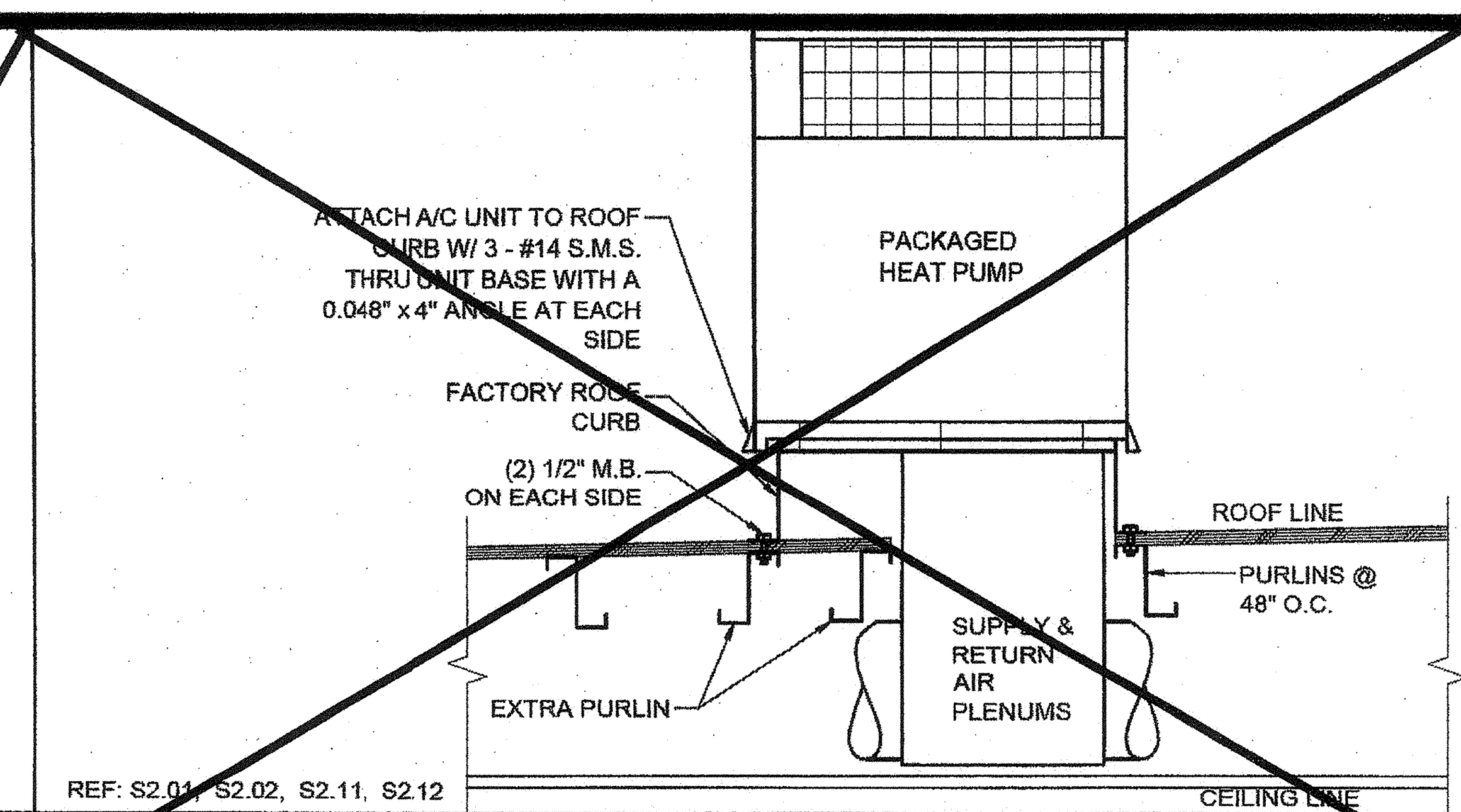
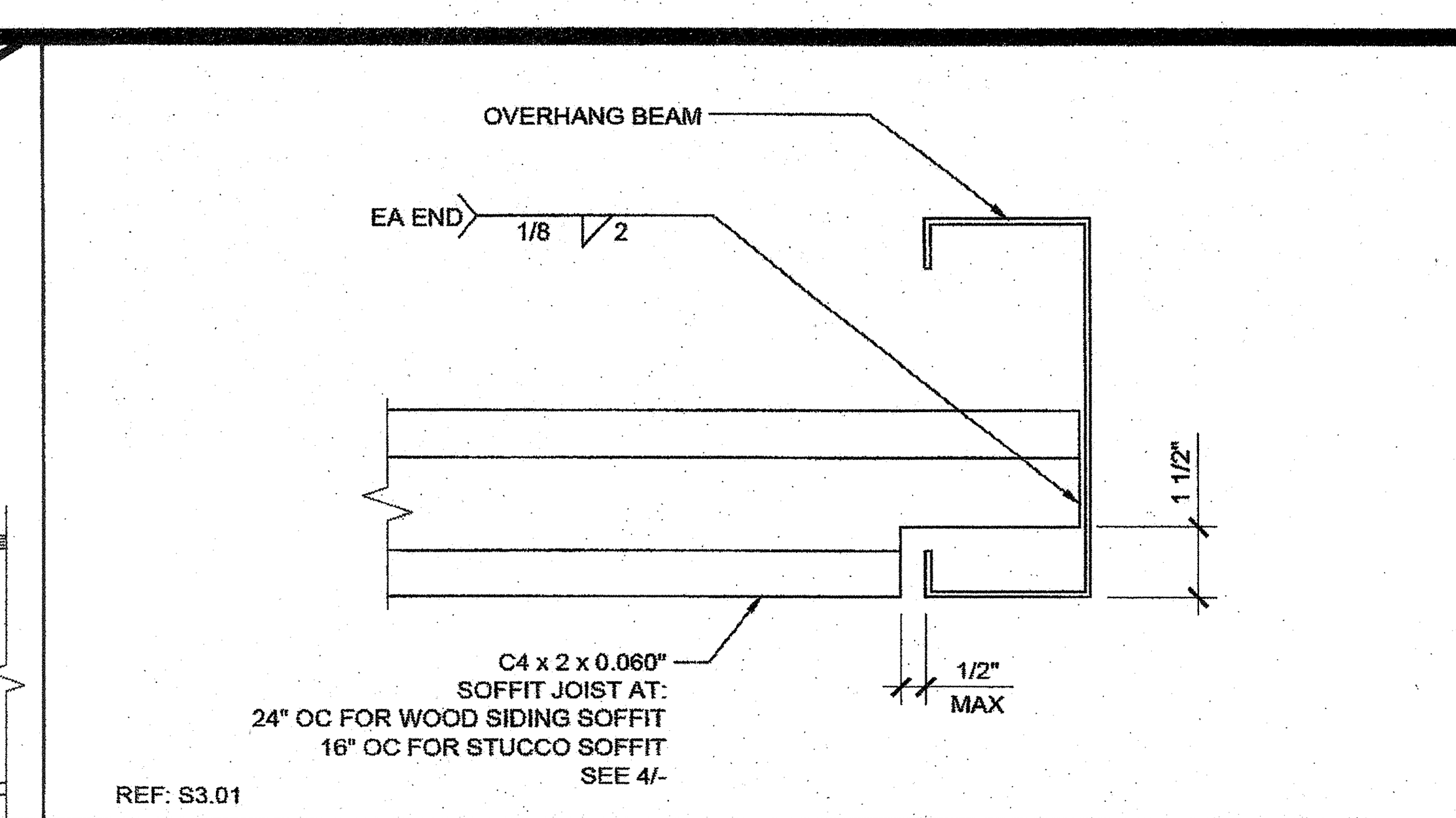
- - HIGH SEISMIC - -



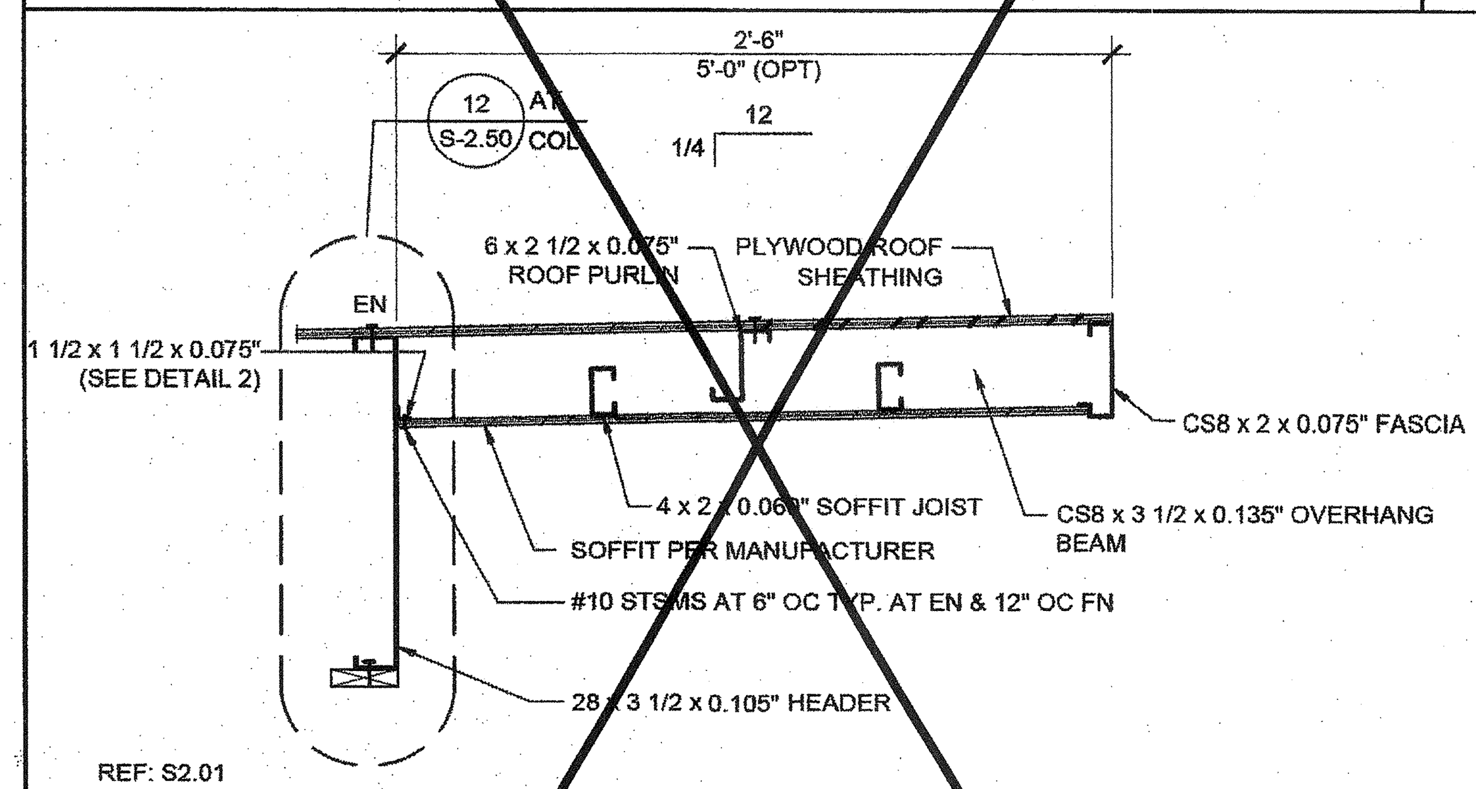
REAR OVERHANG SECTION SCALE : 1 1/2" = 1'-0" 11



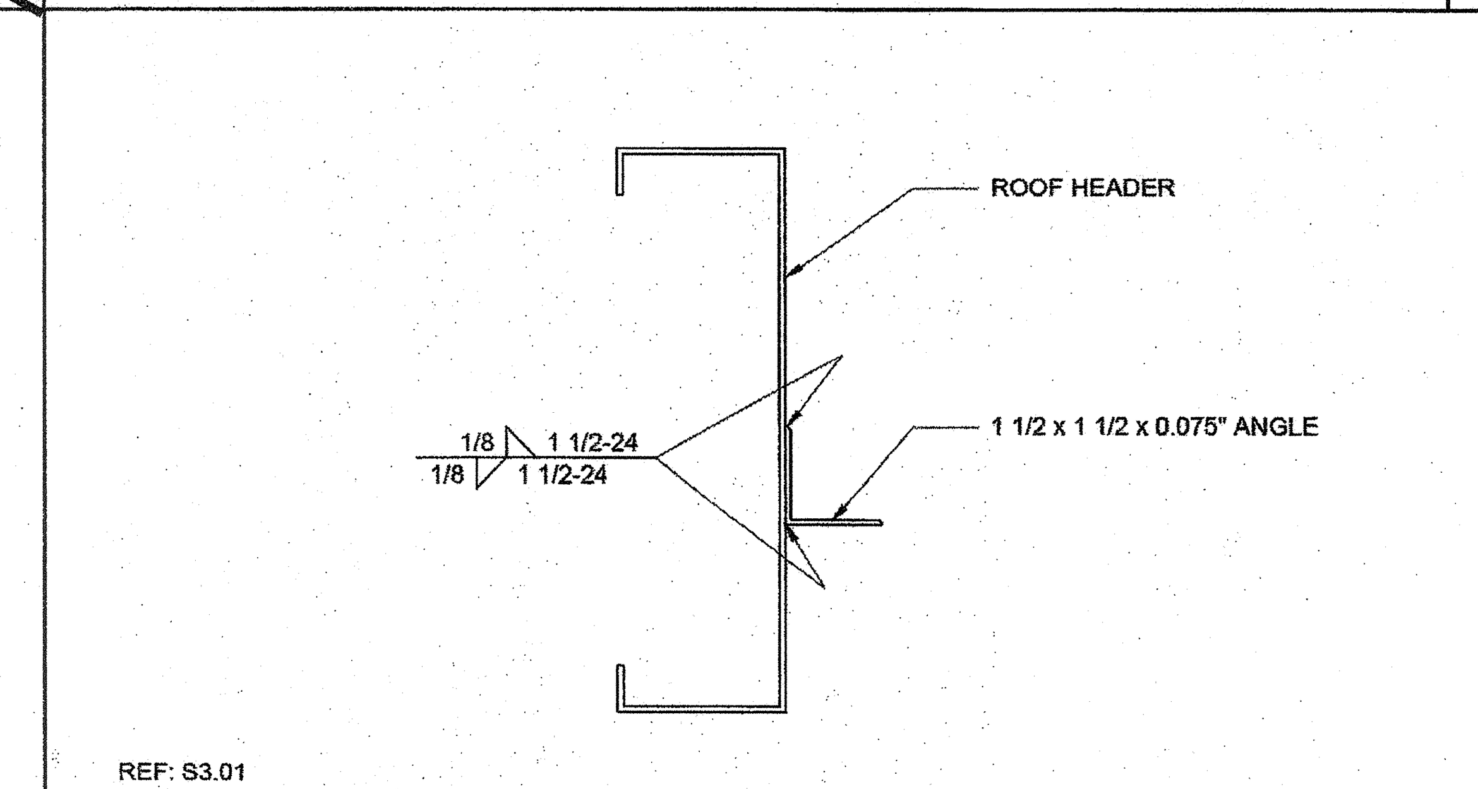
HVAC CURB ATTACHMENT SCALE : 3/4" = 1'-0" 6



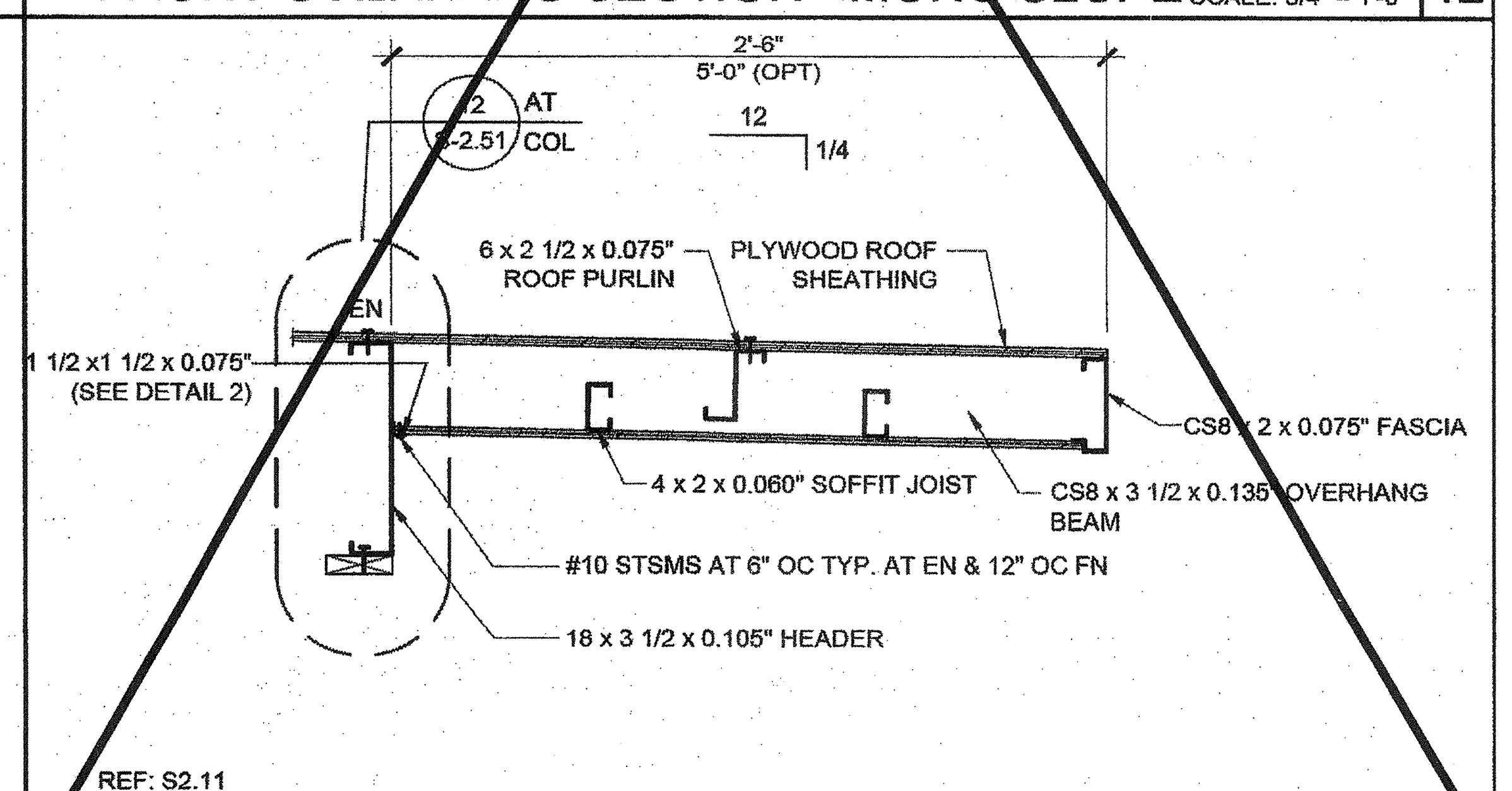
SOFFIT JOIST TO OVERHANG BEAM SCALE : 3"=1'-0" 1



17 FRONT OVERHANG SECTION - MONO SLOPE SCALE: 3/4" = 1'-0" 12



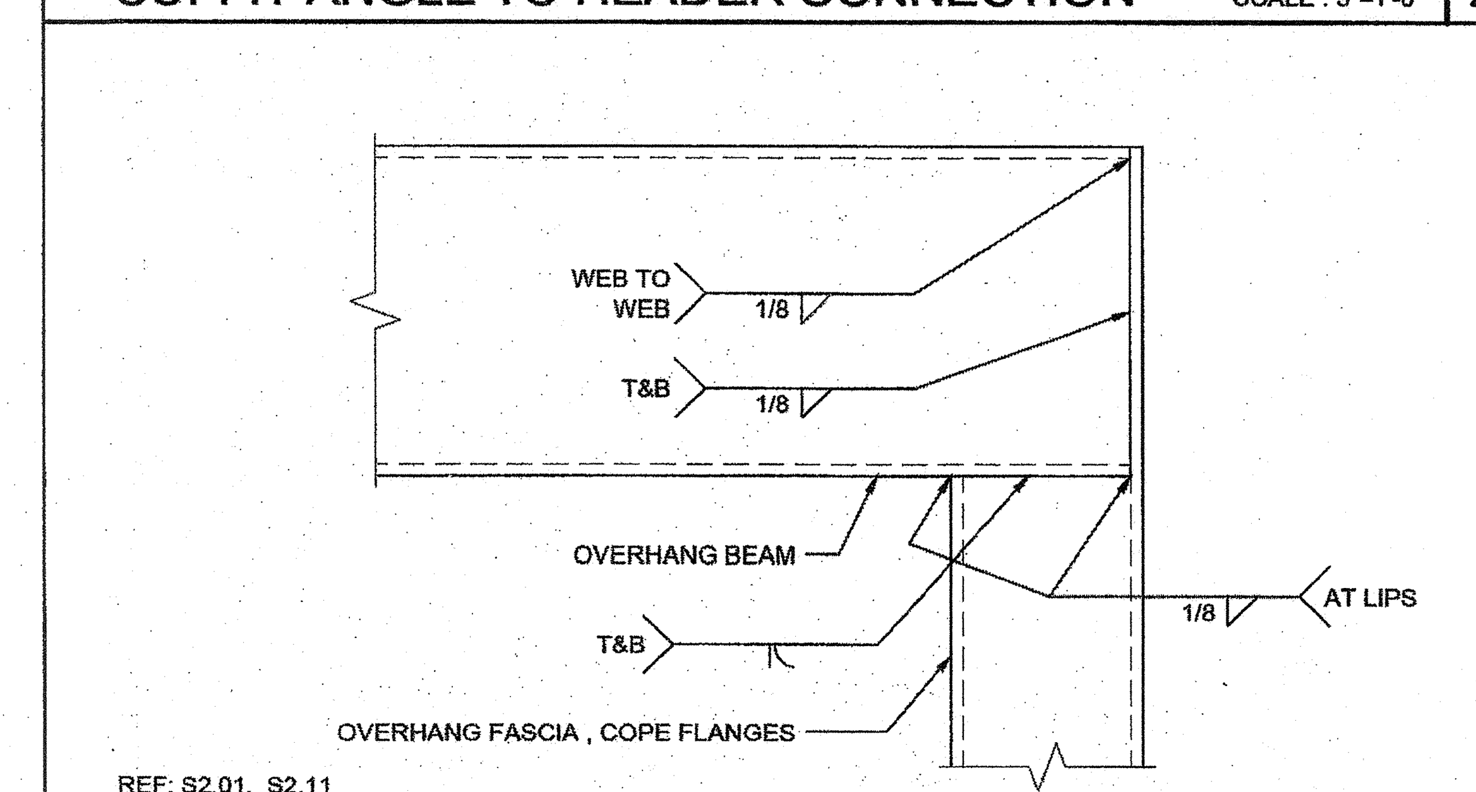
SOFFIT ANGLE TO HEADER CONNECTION SCALE : 3"=1'-0" 2



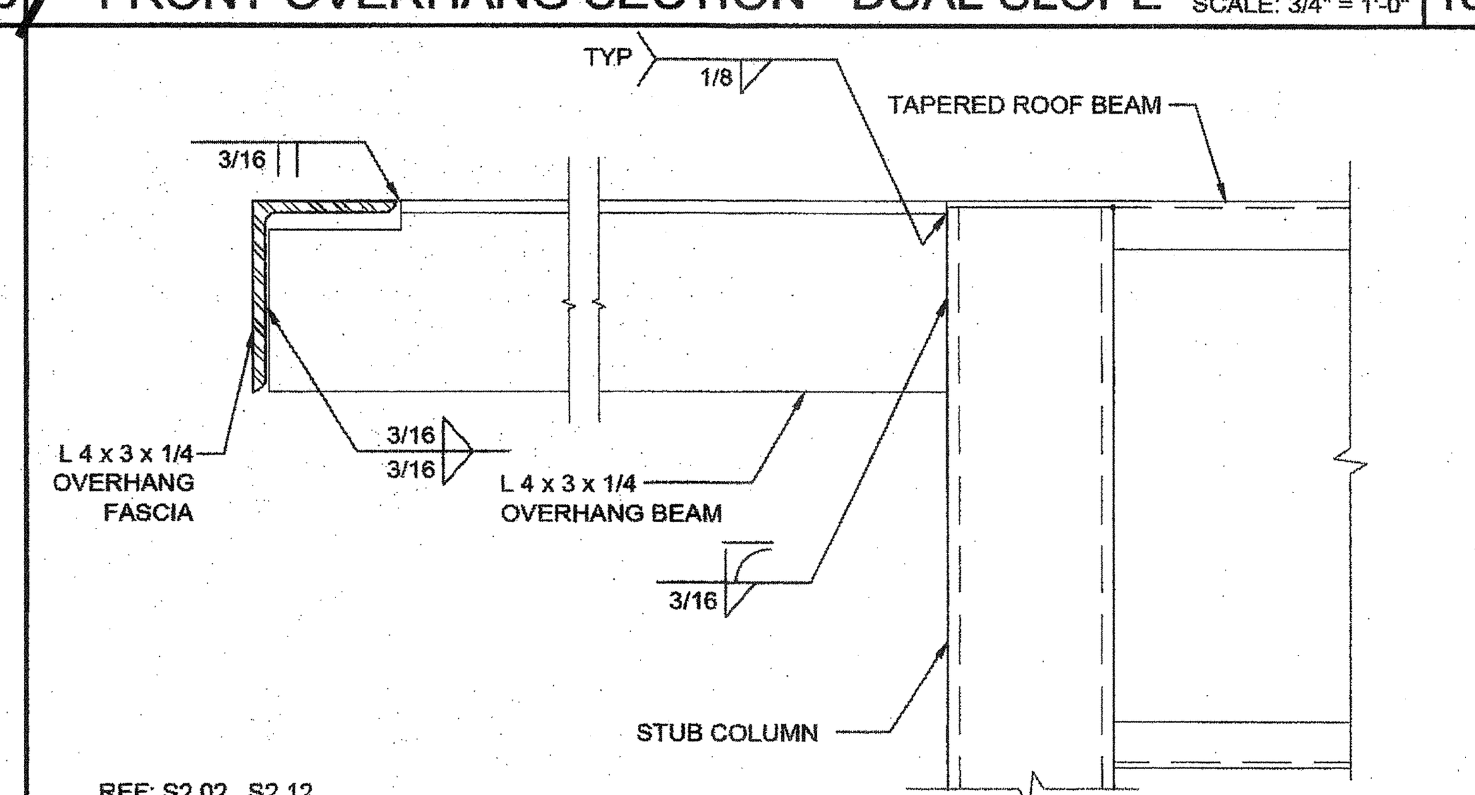
18 FRONT OVERHANG SECTION - DUAL SLOPE SCALE: 3/4" = 1'-0" 13

REF: S2.50, S2.51

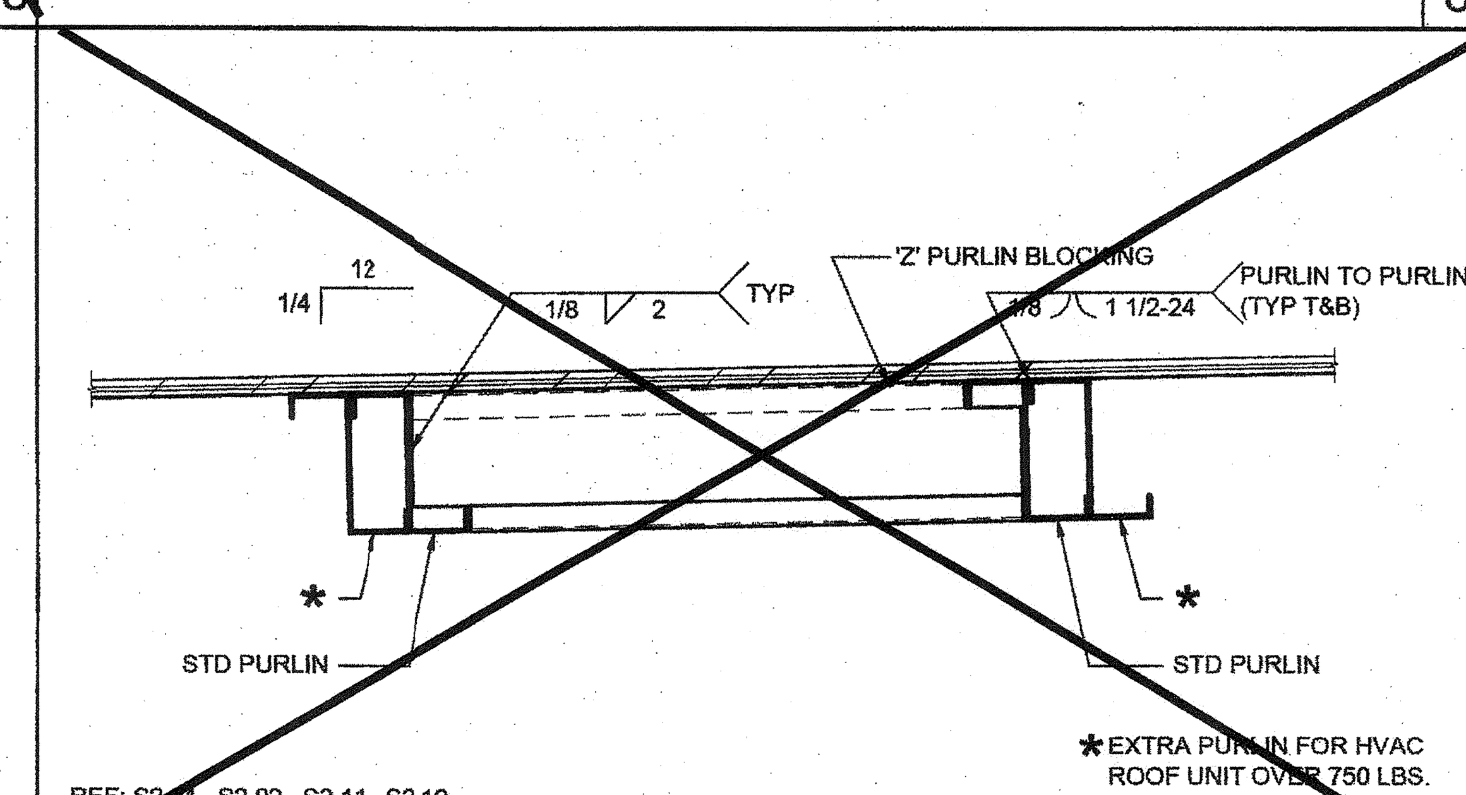
8



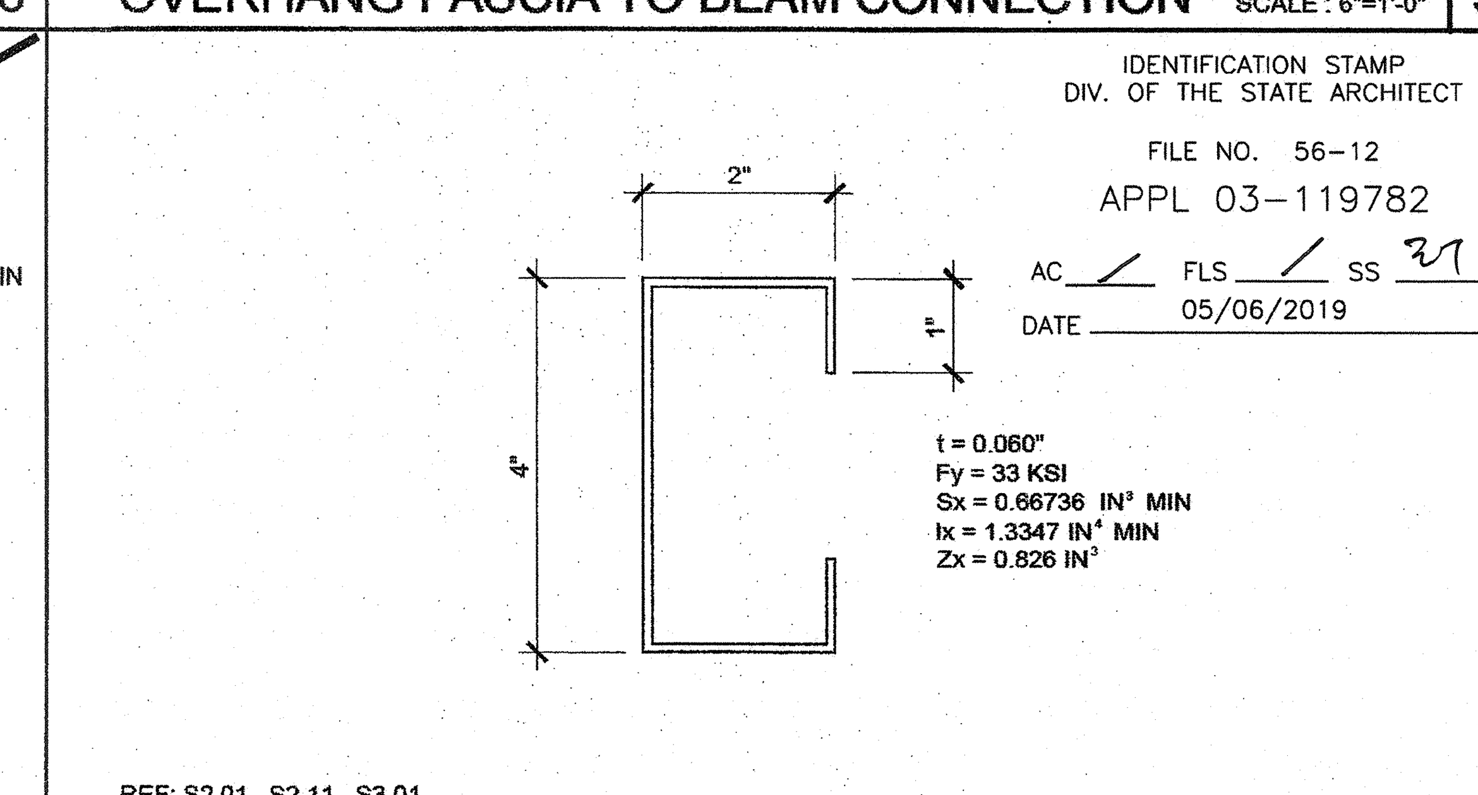
OVERHANG FASCIA TO BEAM CONNECTION SCALE : 6"=1'-0" 3



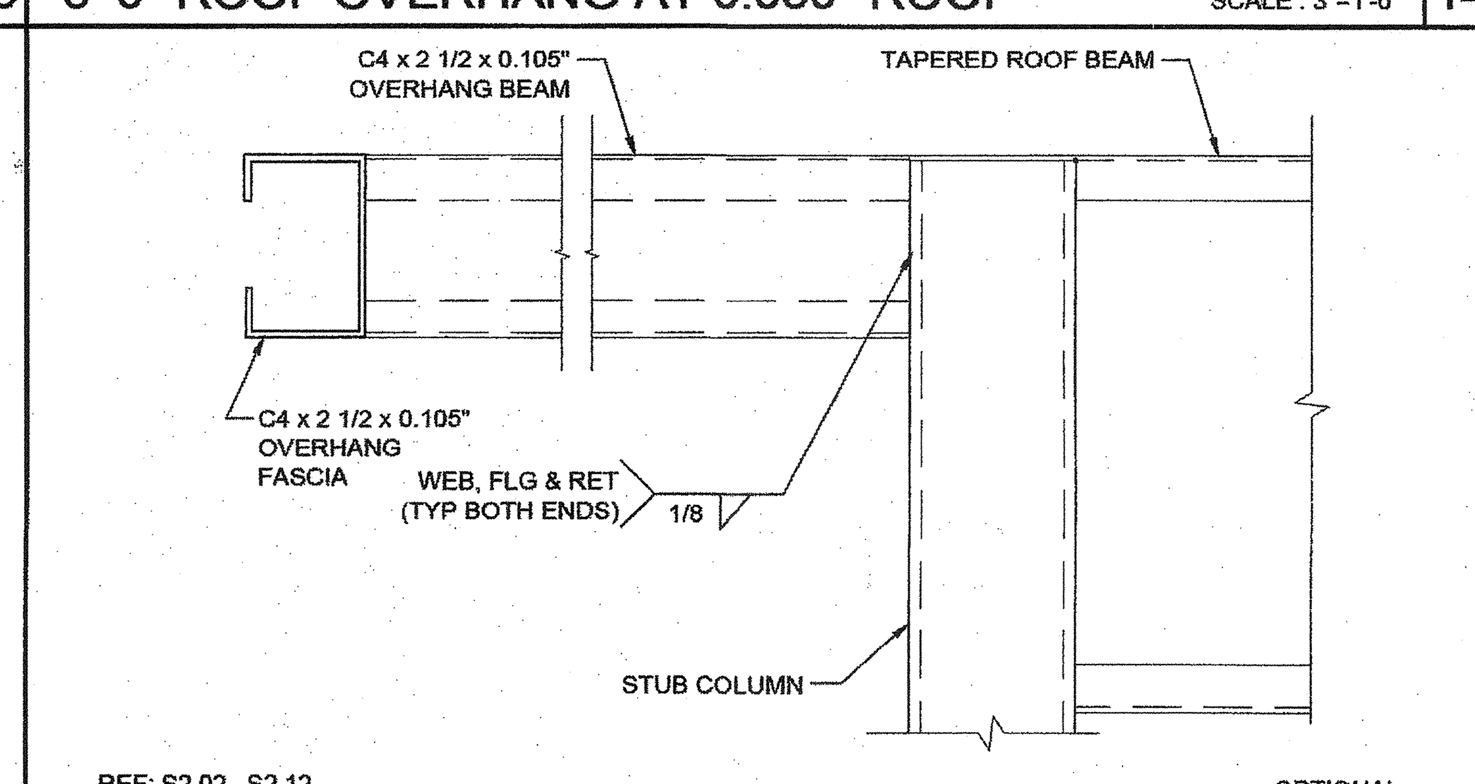
19 5'-0" ROOF OVERHANG AT 0.030" ROOF SCALE : 3"=1'-0" 14



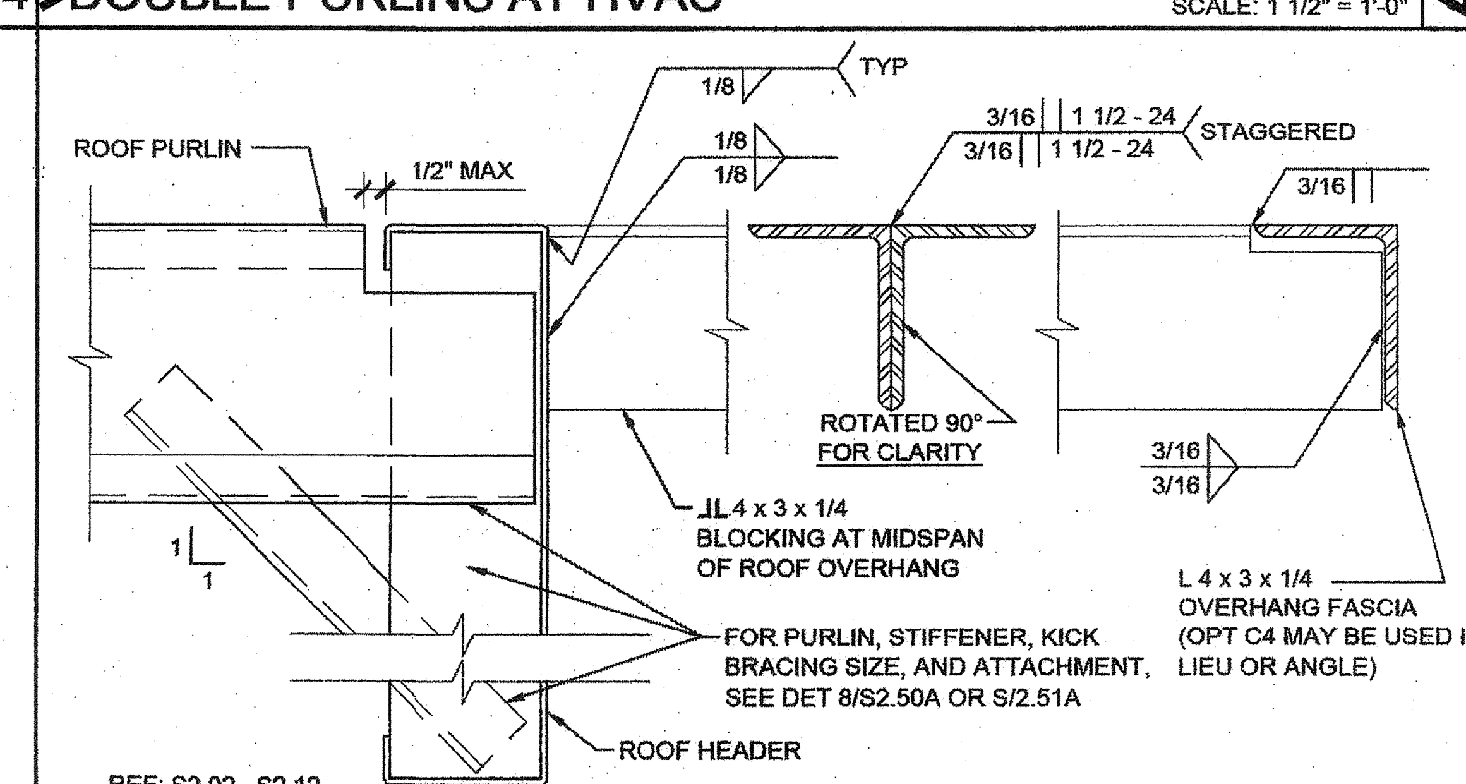
DOUBLE PURLINS AT HVAC SCALE: 1 1/2" = 1'-0" 9



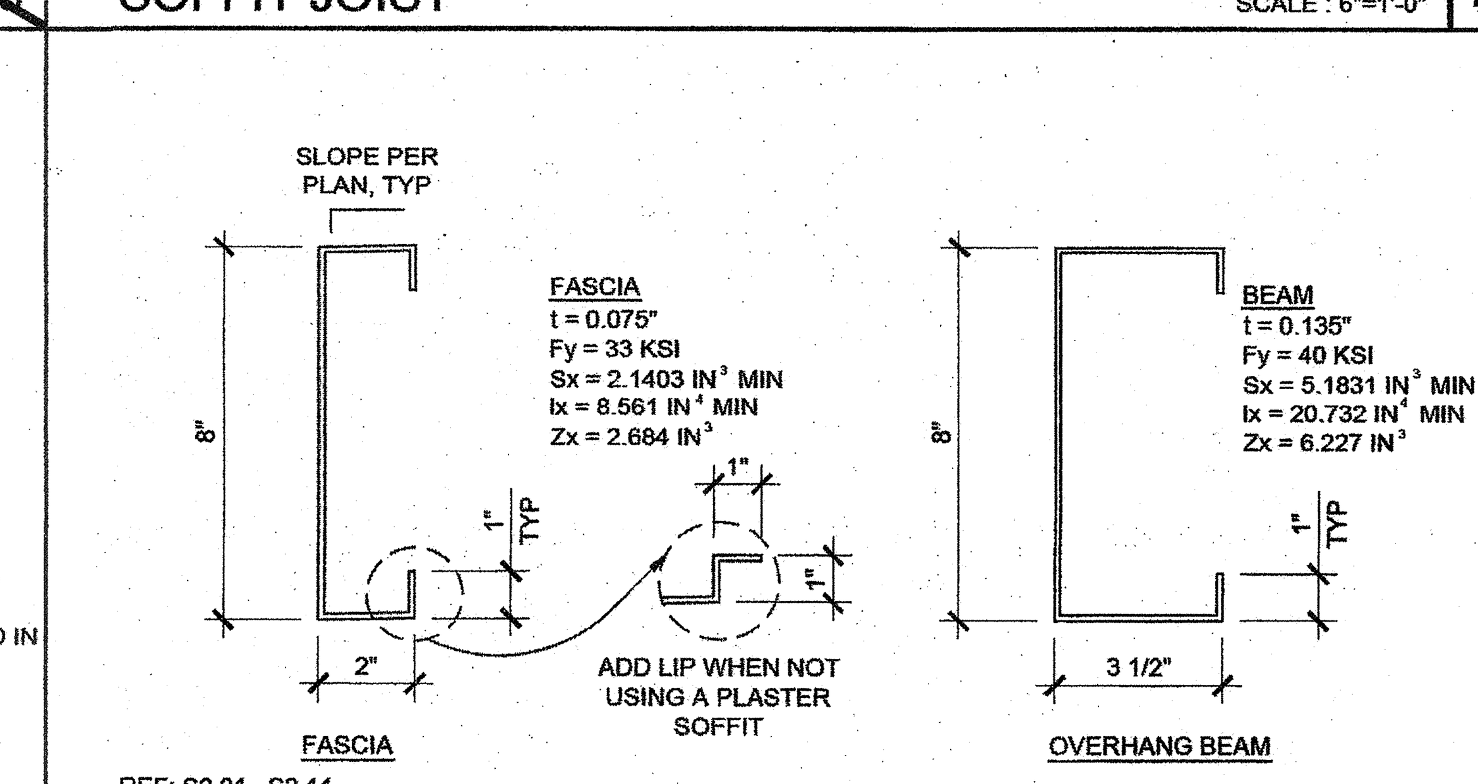
SOFFIT JOIST SCALE : 6"=1'-0" 4



20 5'-0" ROOF OVERHANG AT 0.030" ROOF SCALE : 3" = 1'-0" 15



OVERHANG SUPPORT TO ROOF HDR @ STIFFENER SCALE : 3"=1'-0" 10



OVERHANG FASCIA & BEAM SCALE : 3"=1'-0" 5

SILVER CREEK INDUSTRIES, INC.

SILVER CREEK
Building for the Next Generation

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PROJECT NAME:

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ROOF FRAMING DETAILS

TAVARES ASSOCIATES

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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04 116...
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SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
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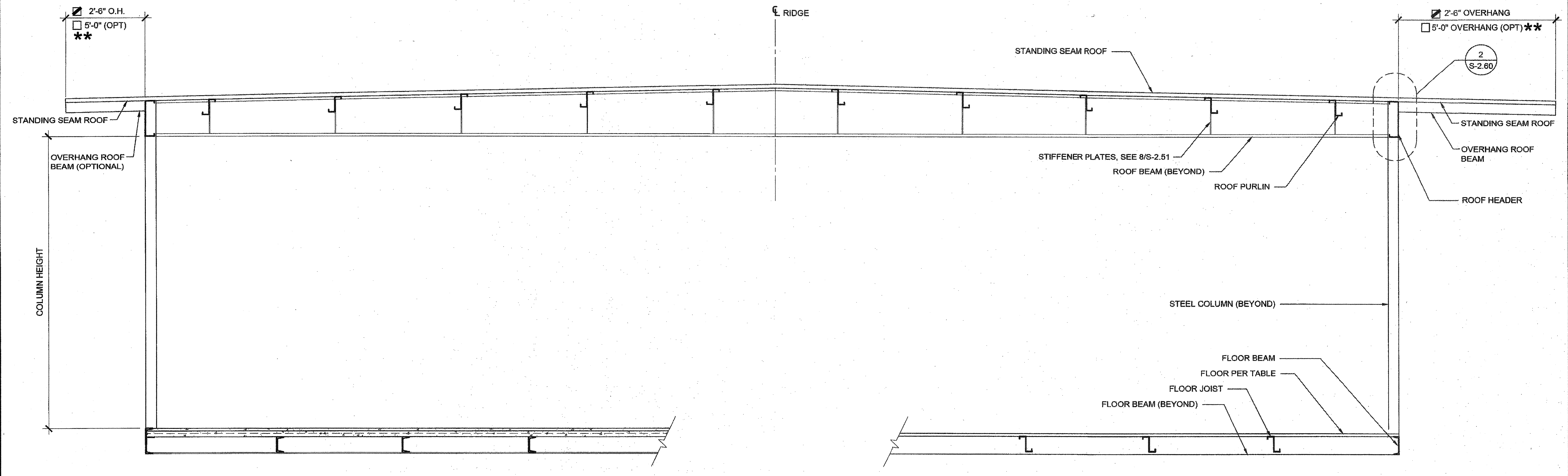
S-2.60

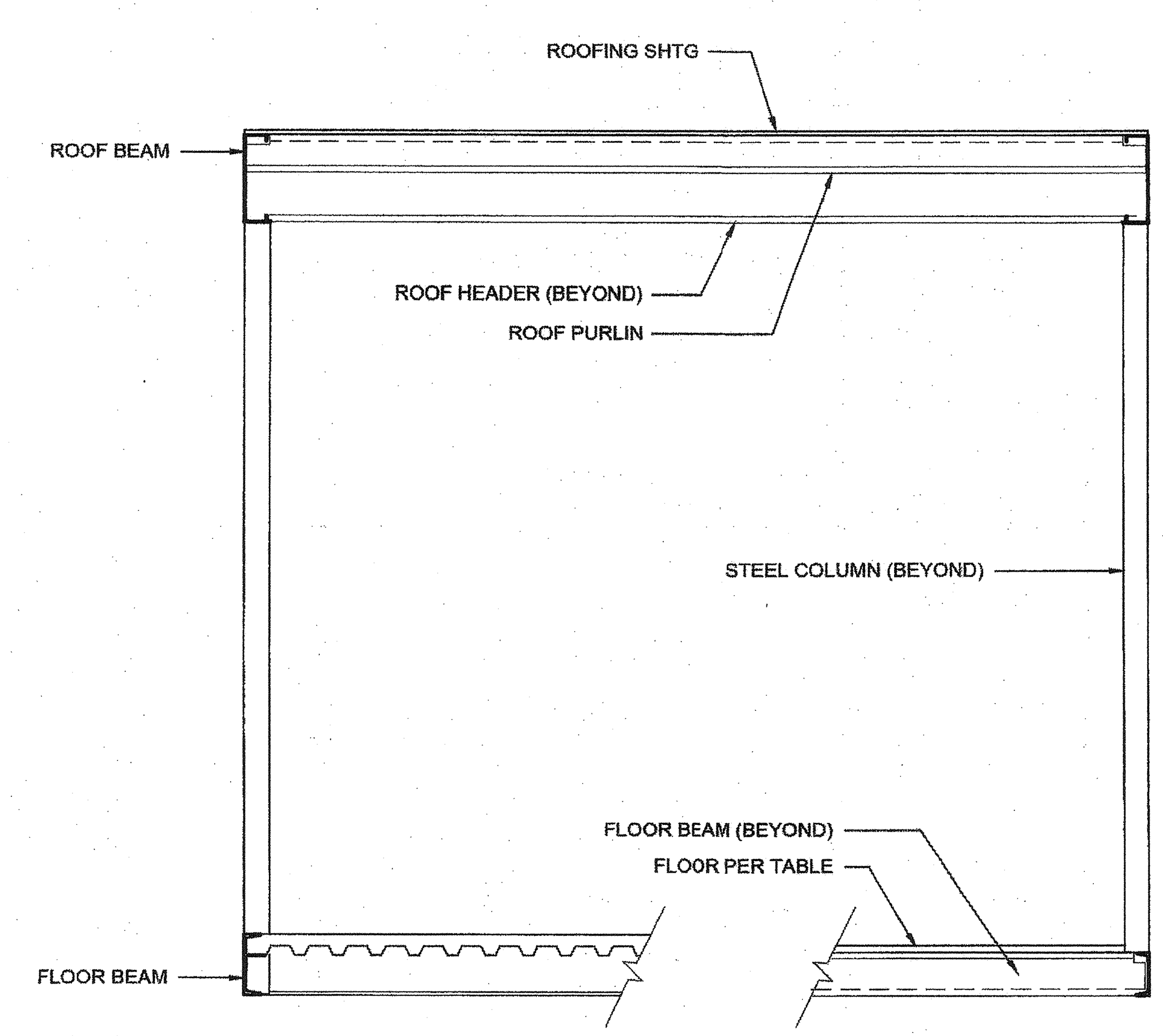
- - HIGH SEISMIC - -



** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

BUILDING SECTION

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



BUILDING SECTION

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

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

- ☒ WOOD FLOOR
- ☐ CONCRETE FLOOR

HSS COLUMN SCHEDULE

COL HT	STANDARD WALL W/ METAL ROOF	STANDARD WALL W/ BUILT UP	PLASTER WALL W/ METAL ROOF OR B.U.
☒ 9'-0"	☒ 5 x 5 x 1/4	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4
☐ 9'-6"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★	☐ 6 x 6 x 1/4 ★
☐ 10'-0"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★	☐ 6 x 6 x 1/4 ★
☐ 10'-6"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★	☐ 6 x 6 x 1/4 ★

★ REQUIRES MINIMUM C8x11.5 FLOOR PERIMETER BEAM

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BUILDING SECTIONS
0.030" DUAL SLOPE

TAVARES ASSOCIATES

LICENSED ARCHITECT C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA
6-25-2014

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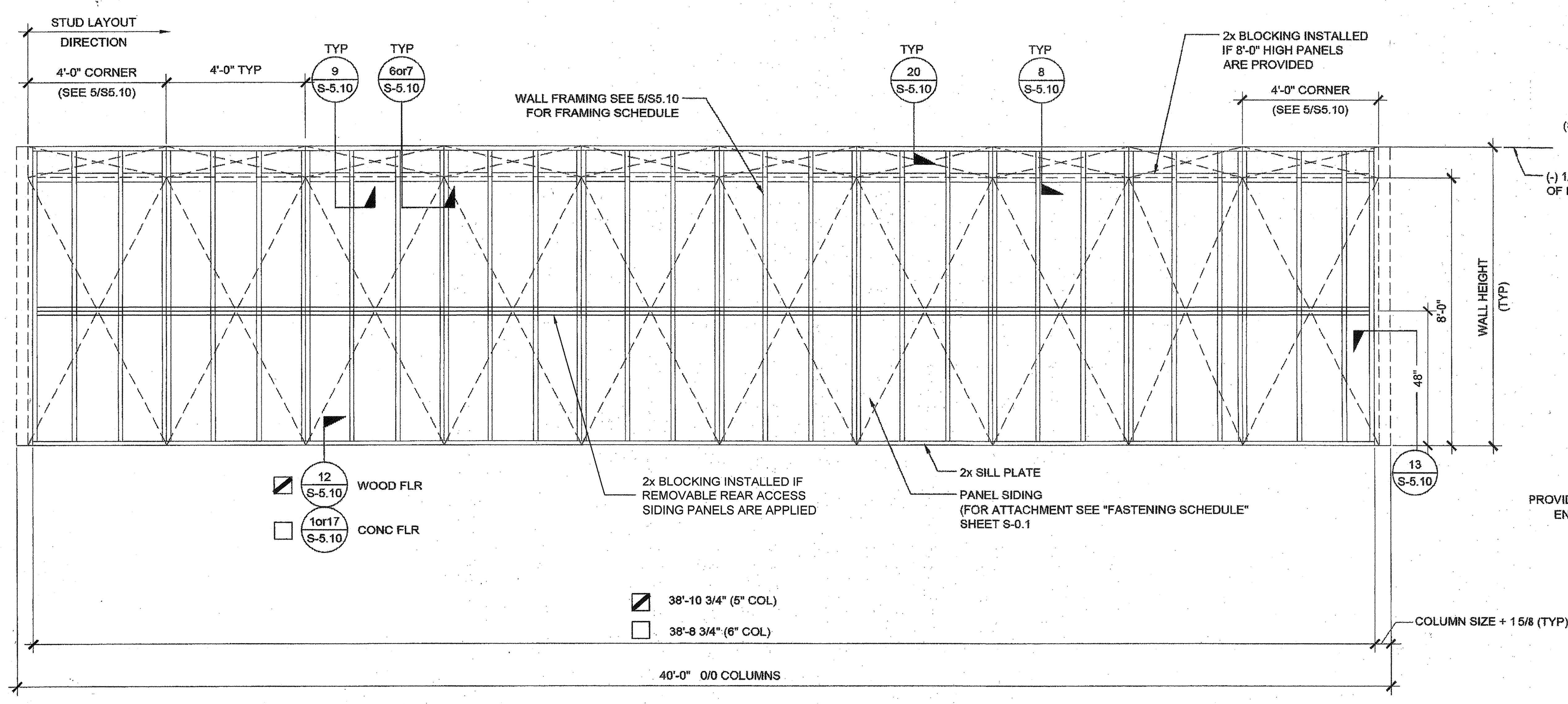
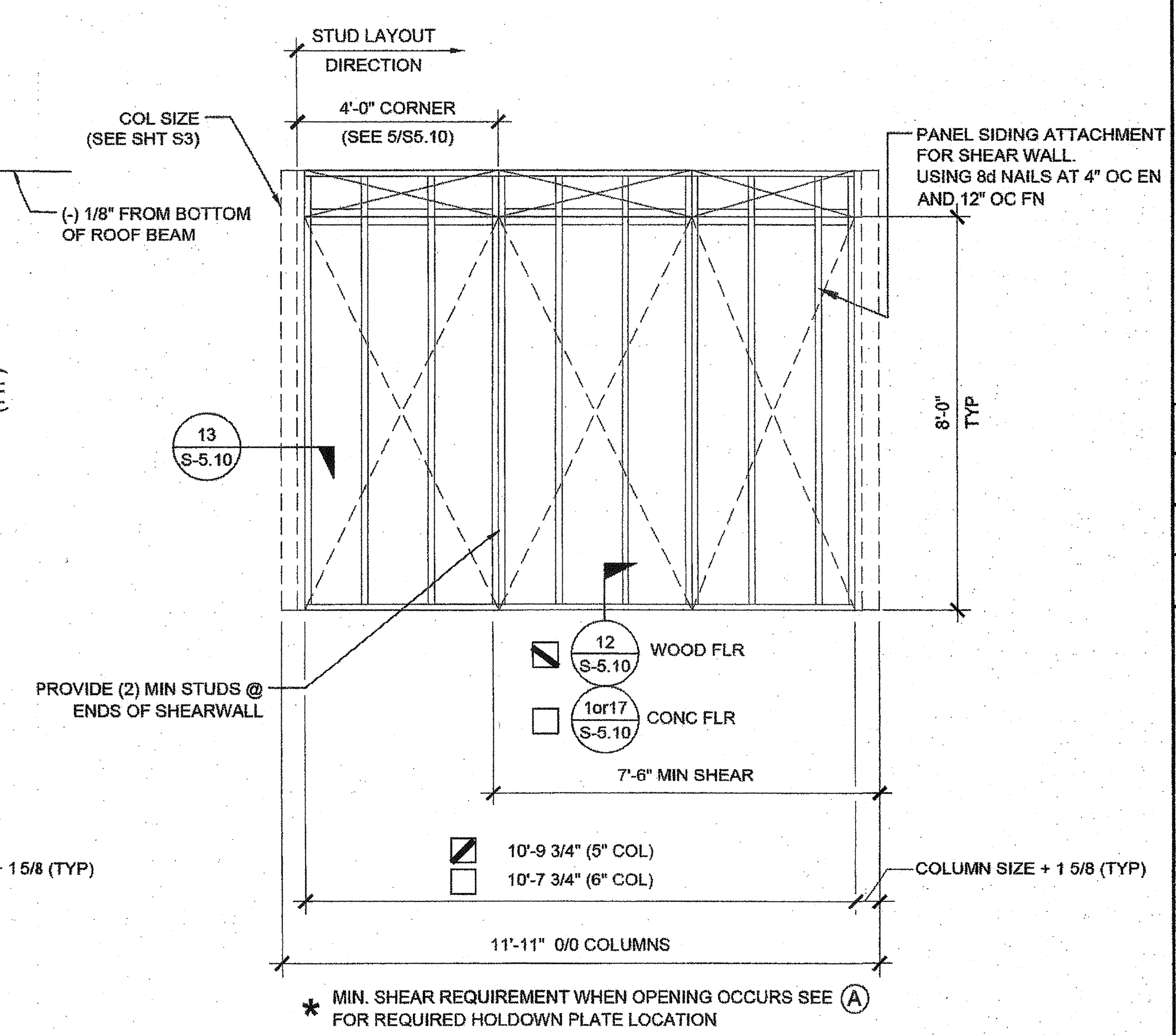
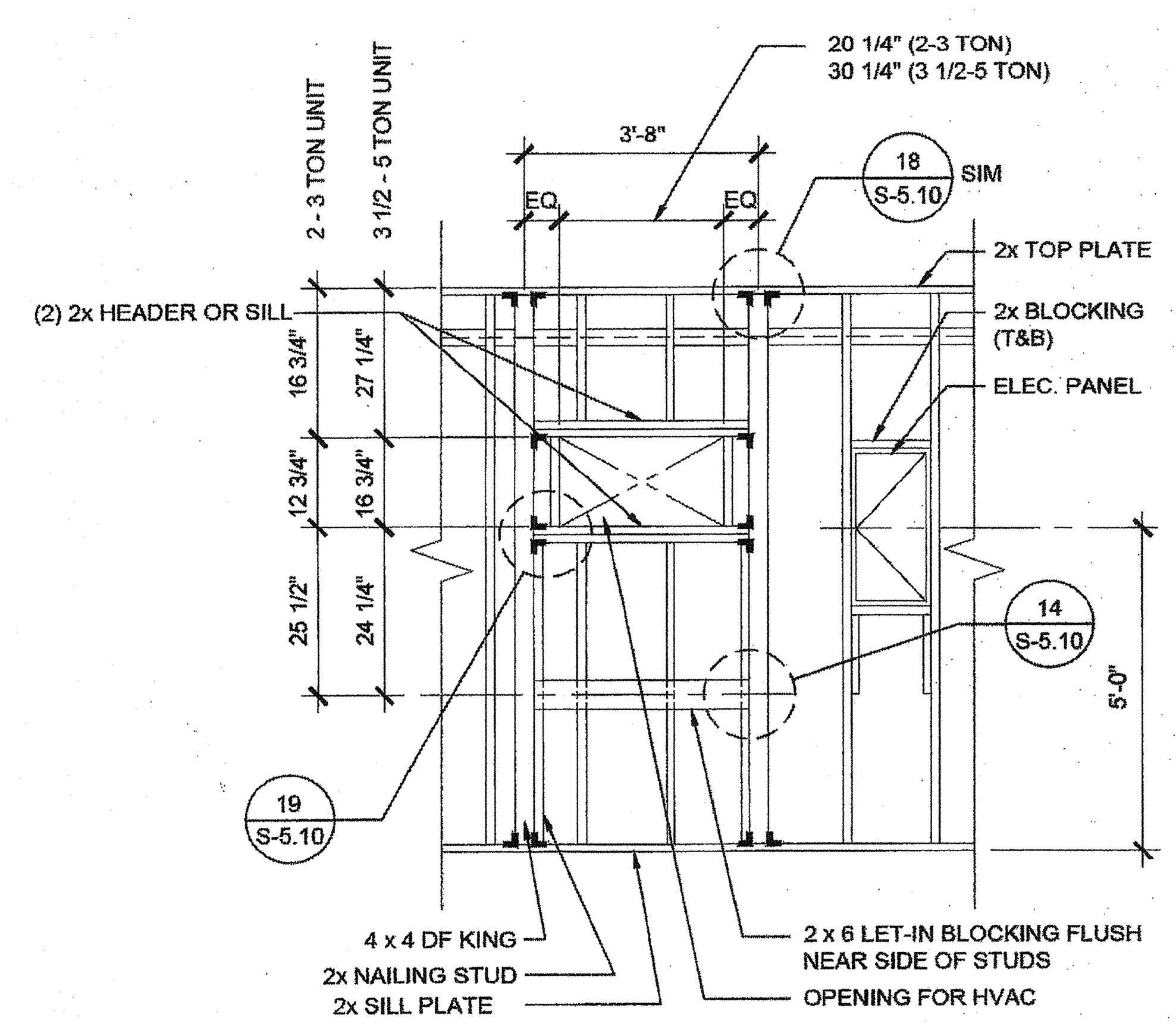


TYPICAL SIDE WALL

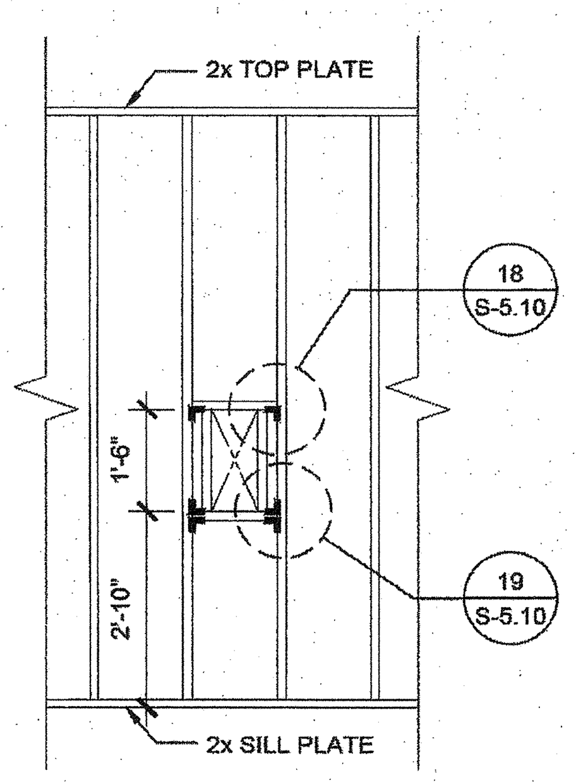


* MIN. SHEAR REQUIREMENT WHEN OPENING OCCURS SEE (A) FOR REQUIRED HOLDOWN PLATE LOCATION

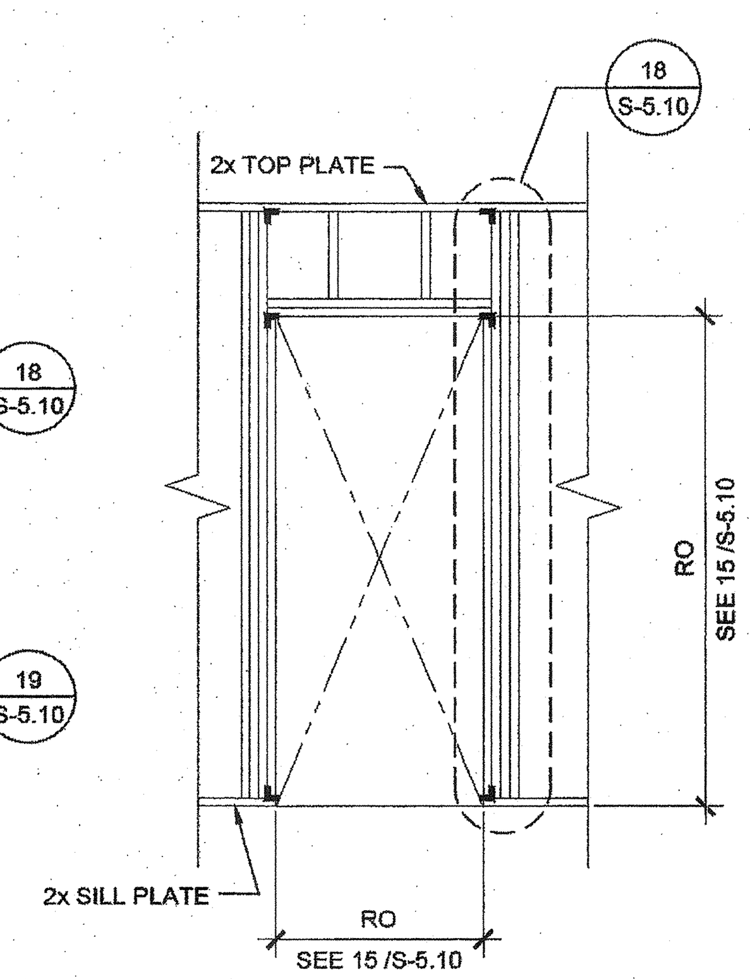
TYPICAL END WALL



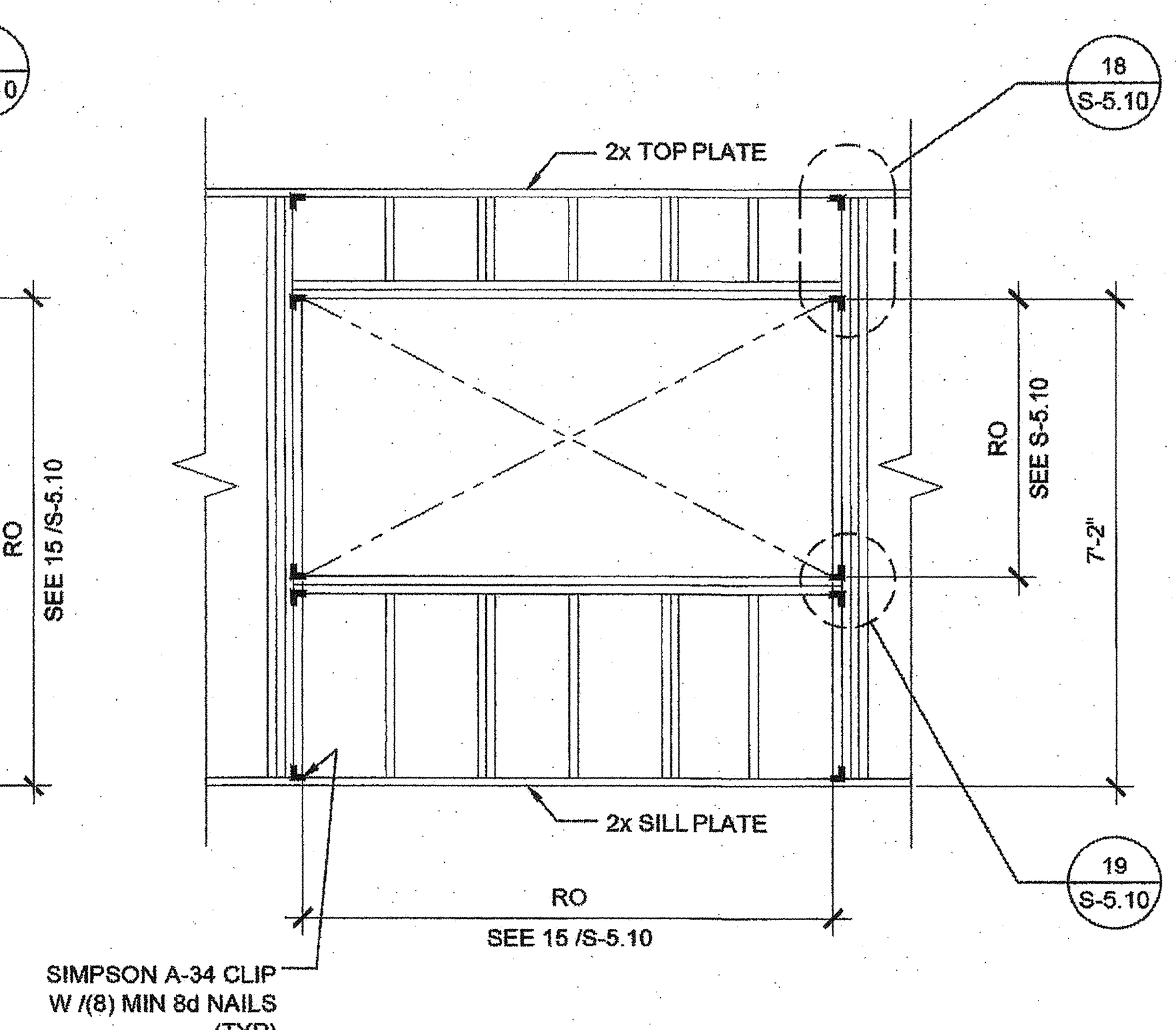
TYPICAL HVAC



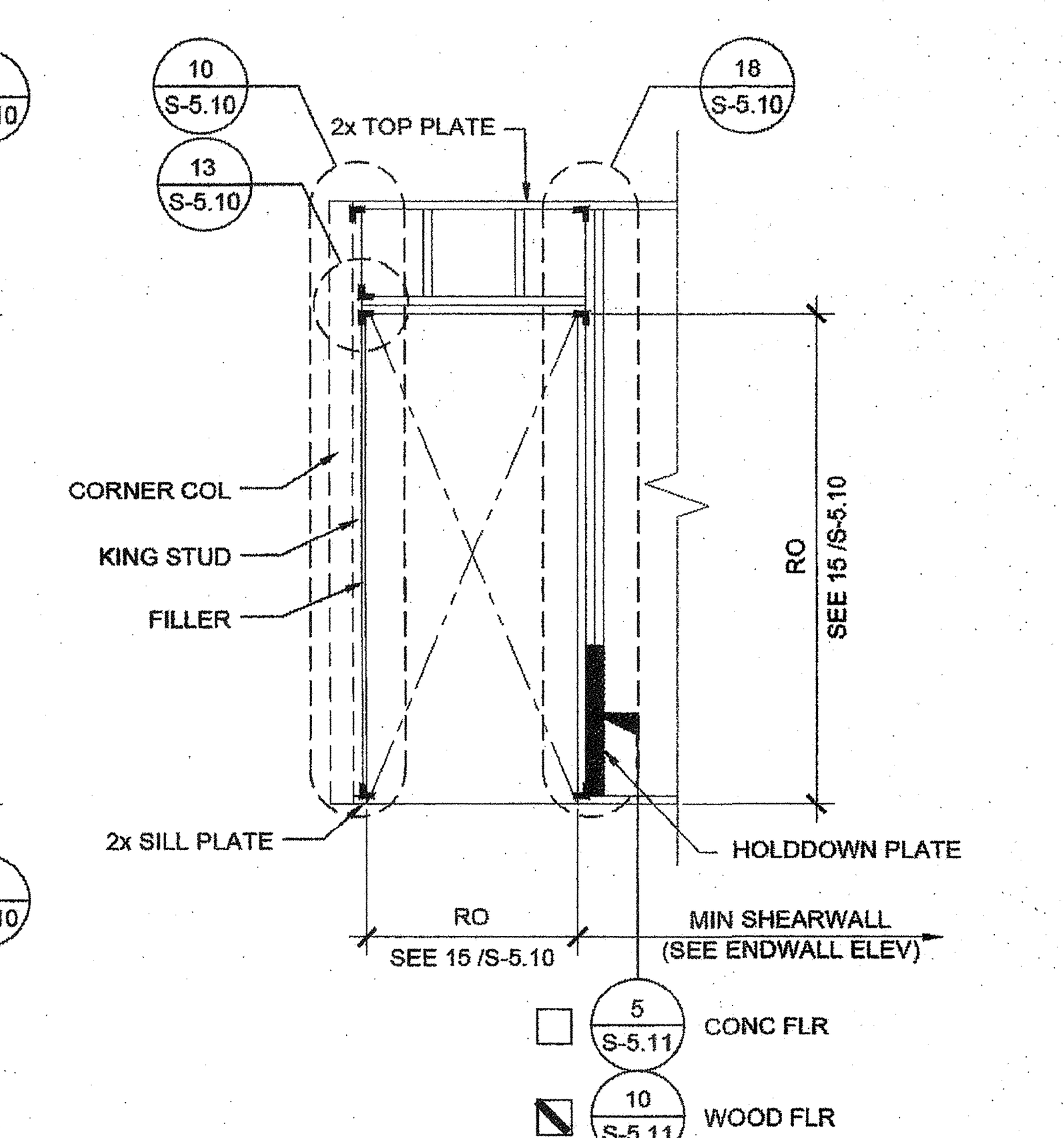
FIRE EXTINGUISHER CABINET BLOCKOUT



TYPICAL DOOR AT SIDEWALL



TYPICAL WINDOW



(A) TYPICAL DOOR OPENING AT END SHEARWALL

FRAMING ELEVATIONS

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

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	[X] 9'-0"	[ ] 9'-6"	[ ] 10'-0"	[ ] 10'-6"
[ ] CONCRETE FLOOR	8'-11 7/8"	9'-5 7/8"	9'-11 7/8"	10'-5 7/8"
[X] WOOD FLOOR	8'-10 3/4"	9'-4 3/4"	9'-10 3/4"	10'-4 3/4"

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FRAMING ELEVATIONS WOOD STUDS

TAVARES ASSOCIATES

LICENSED ARCHITECT C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. S3380 STRUCTURAL STATE OF CALIFORNIA 6-25-2014

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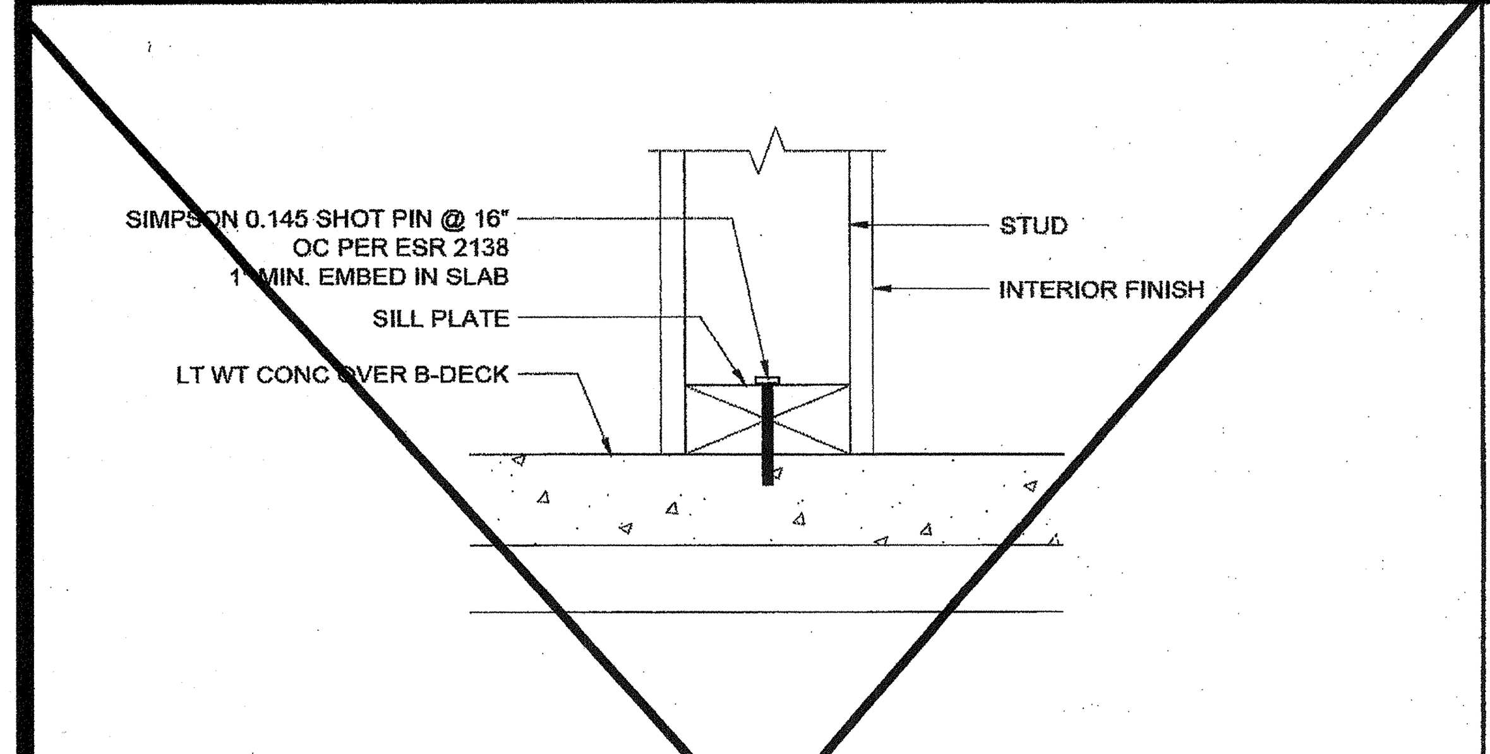
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

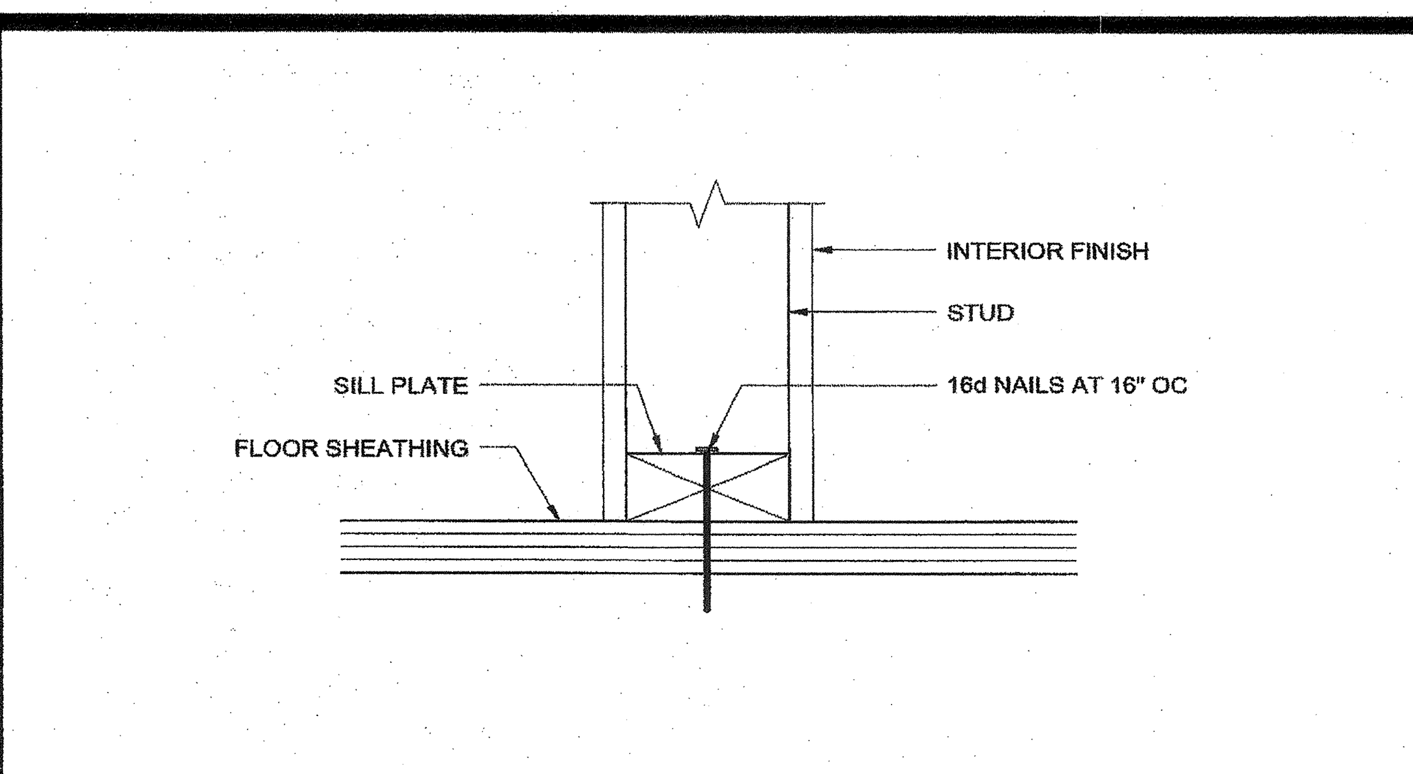
P.C. SHEET NUMBER

S-5.00

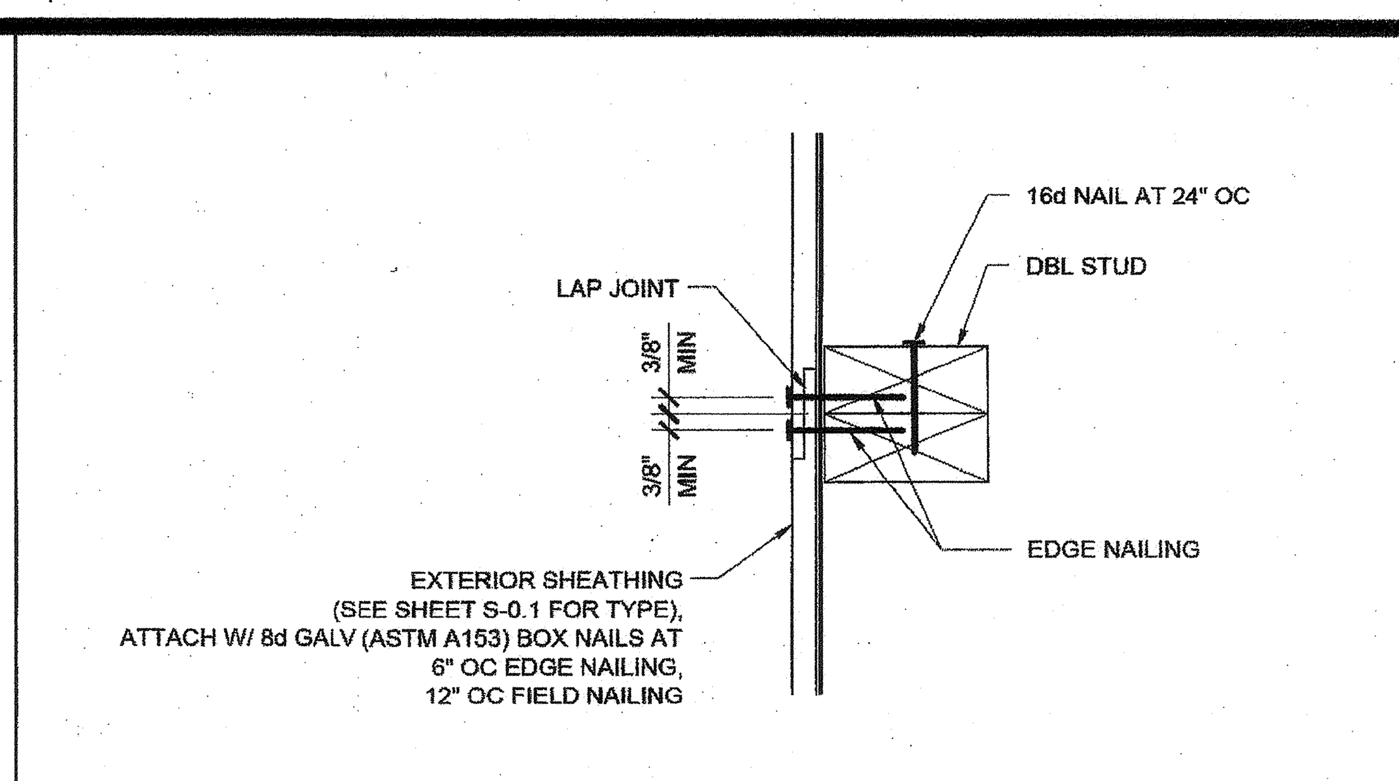
- - HIGH SEISMIC - -



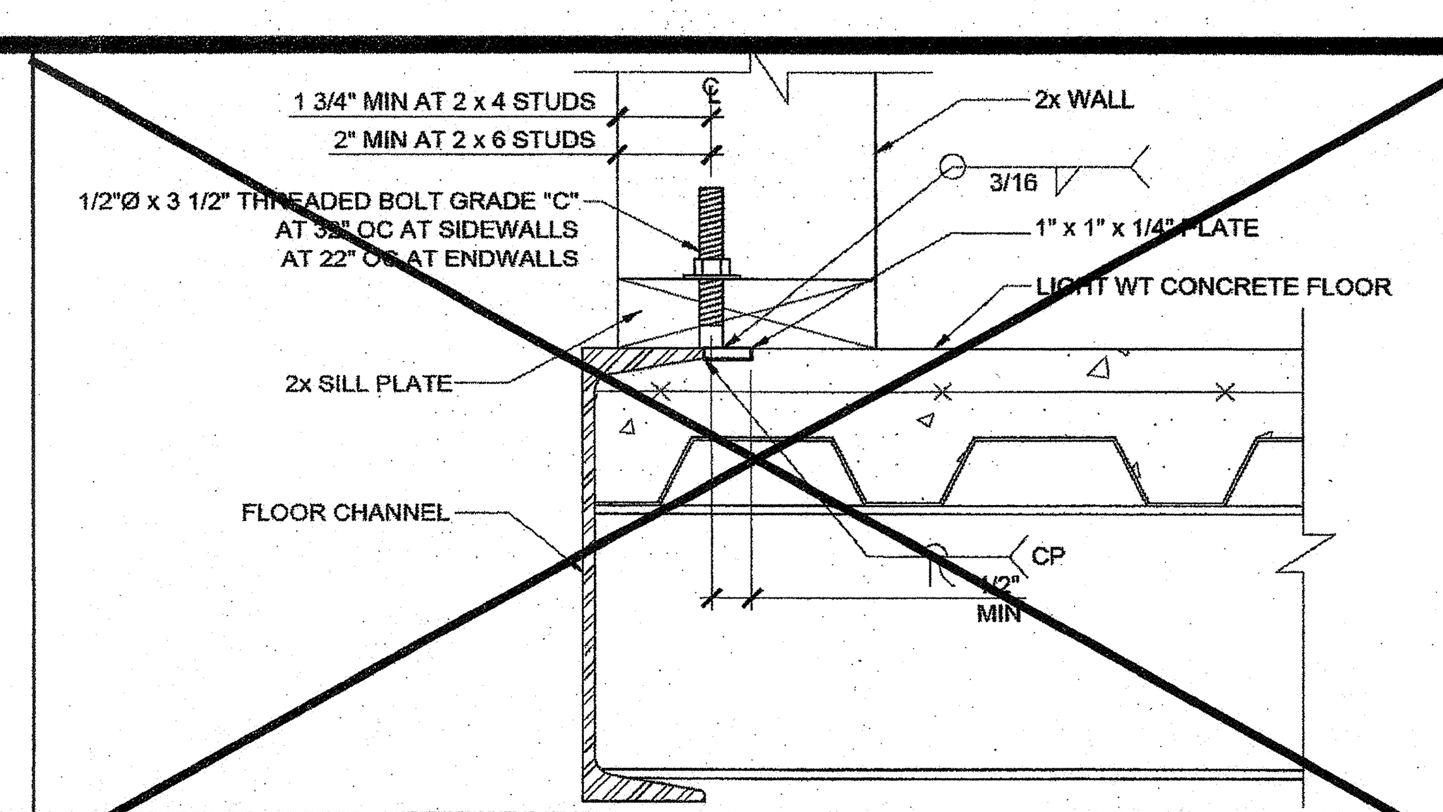
PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" 16



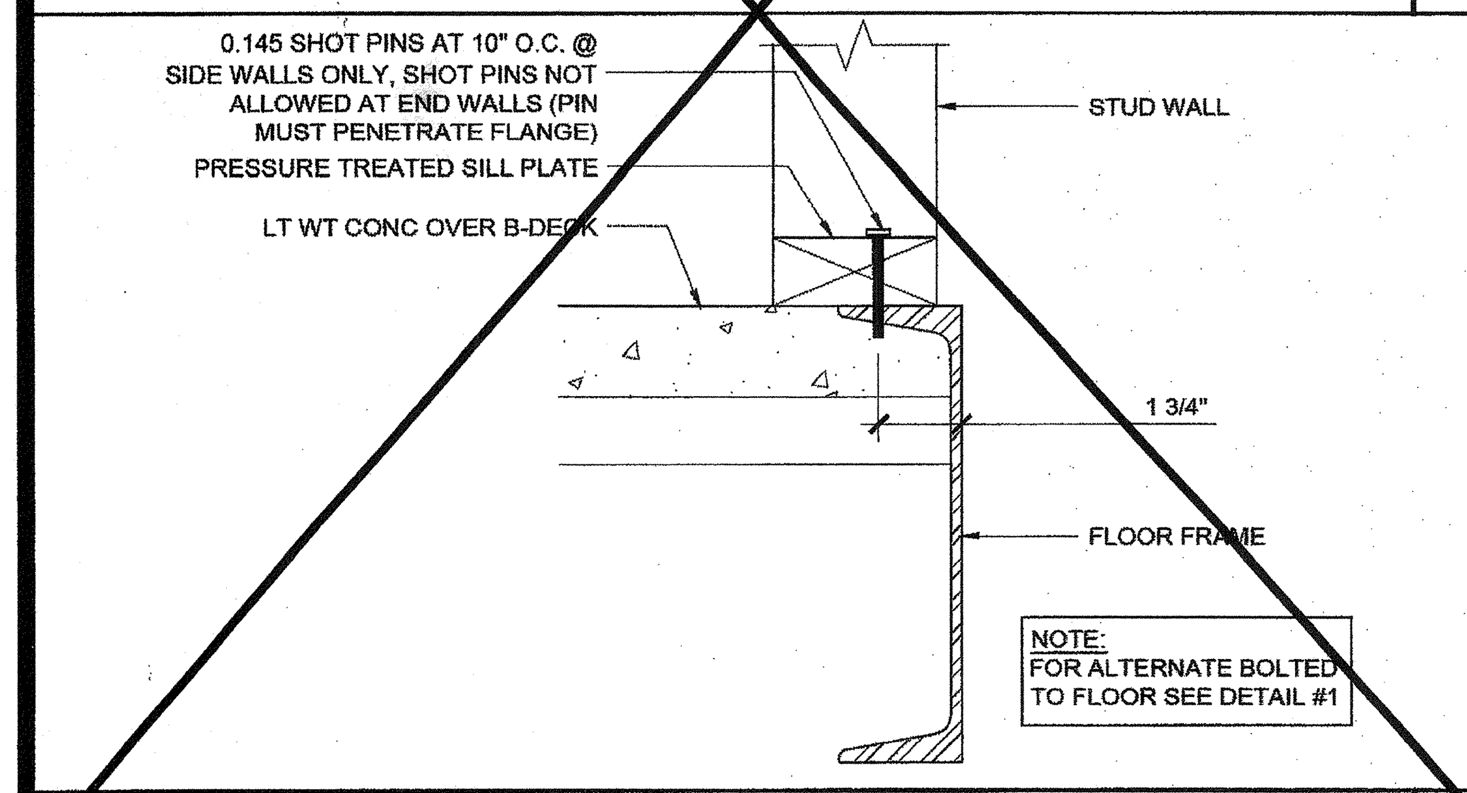
PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" 11



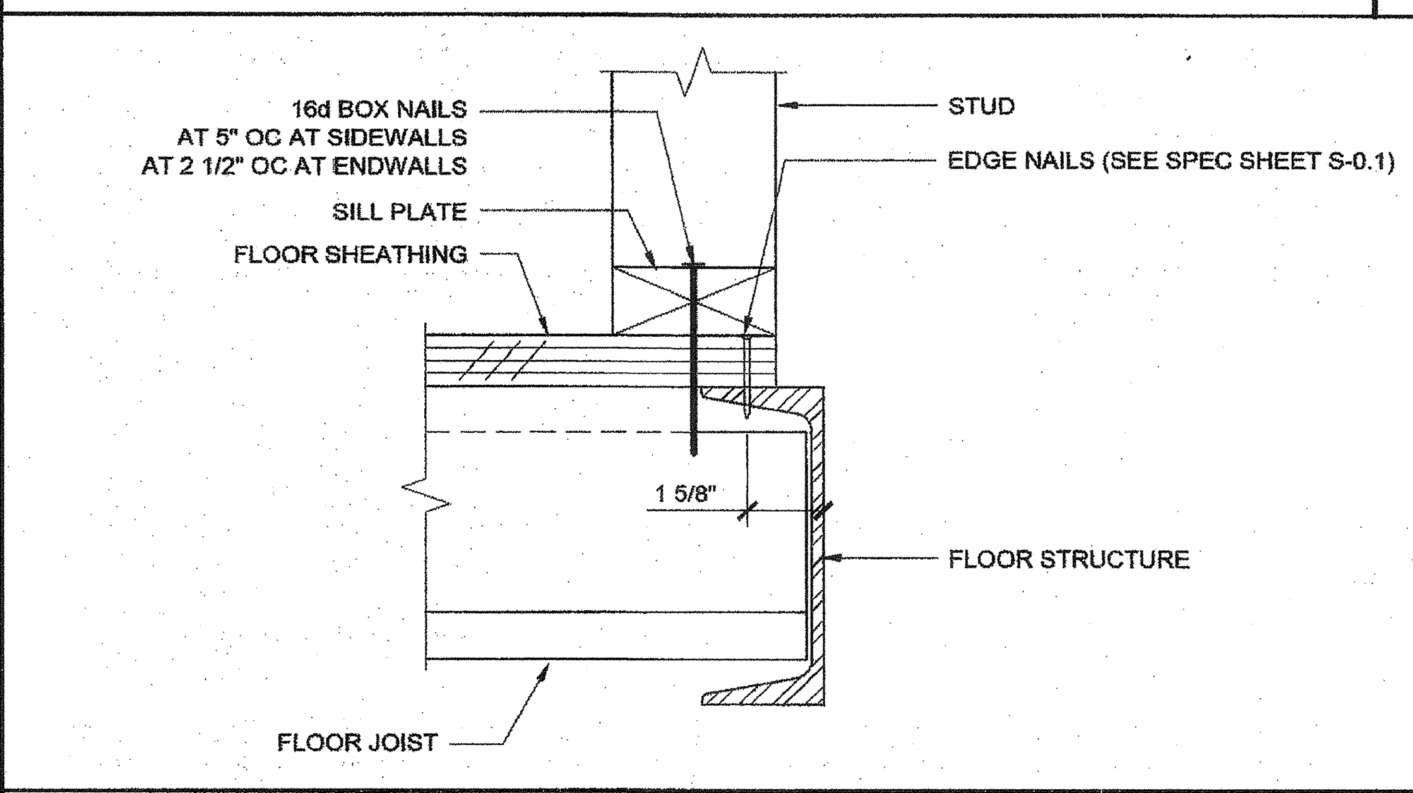
VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" 6



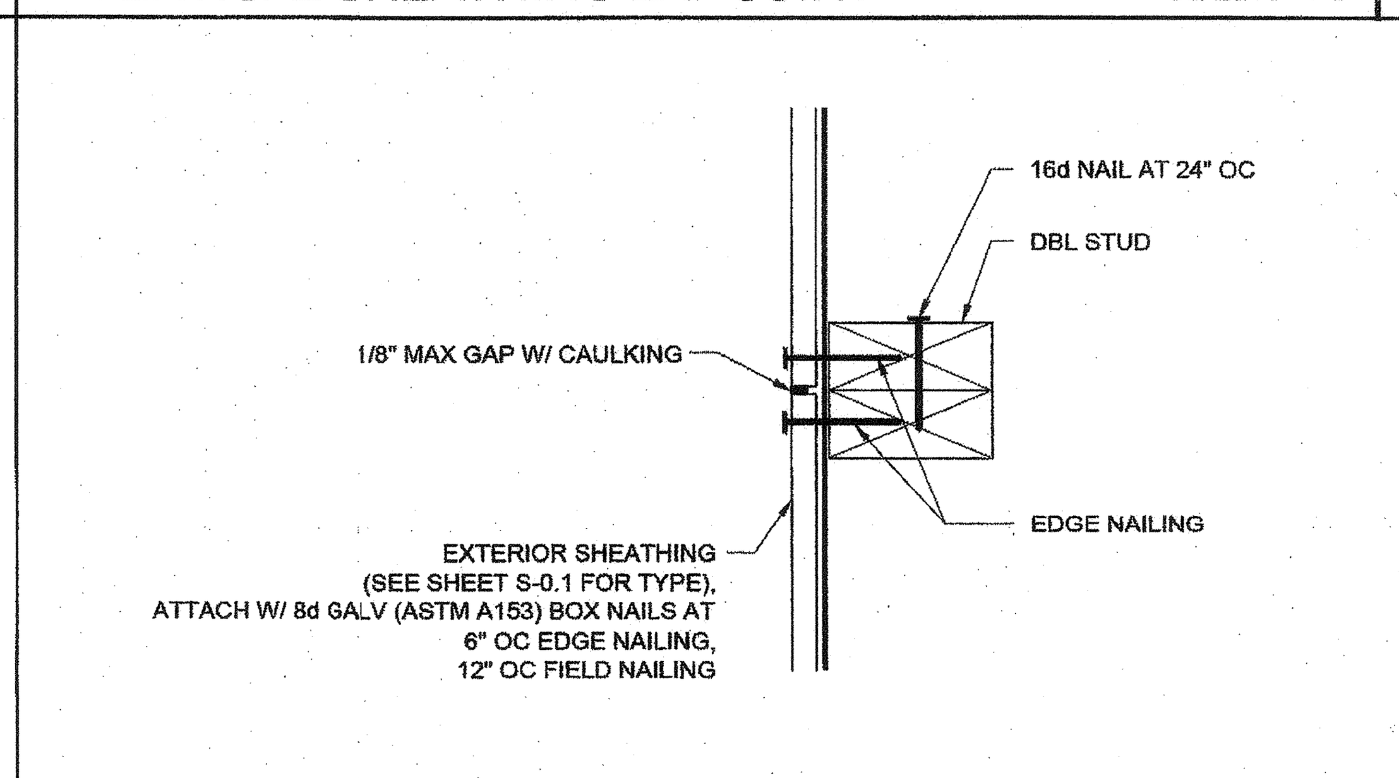
OPTIONAL BOLTED WALL TO FLOOR SCALE : NTS 1



WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" 17



WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" 12



VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" 7

2

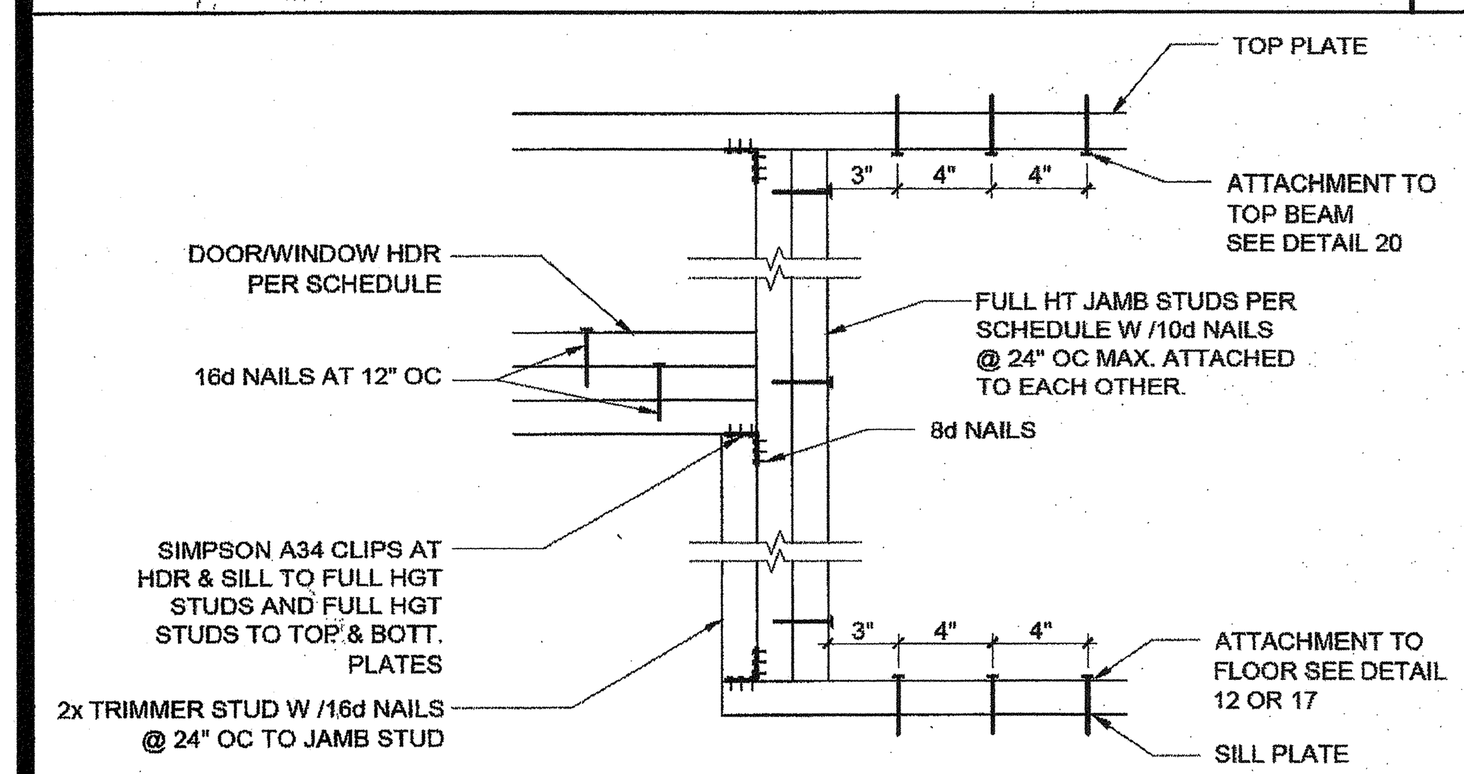
2x4 OPENING STUDS SCHEDULE (2)

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER	HEADER SIZE	HEADER LUMBER	HEADER TYPE	SILL NUMBER	SILL SIZE	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER	FULL HEIGHT KING STUD SIZE	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2
	8040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2

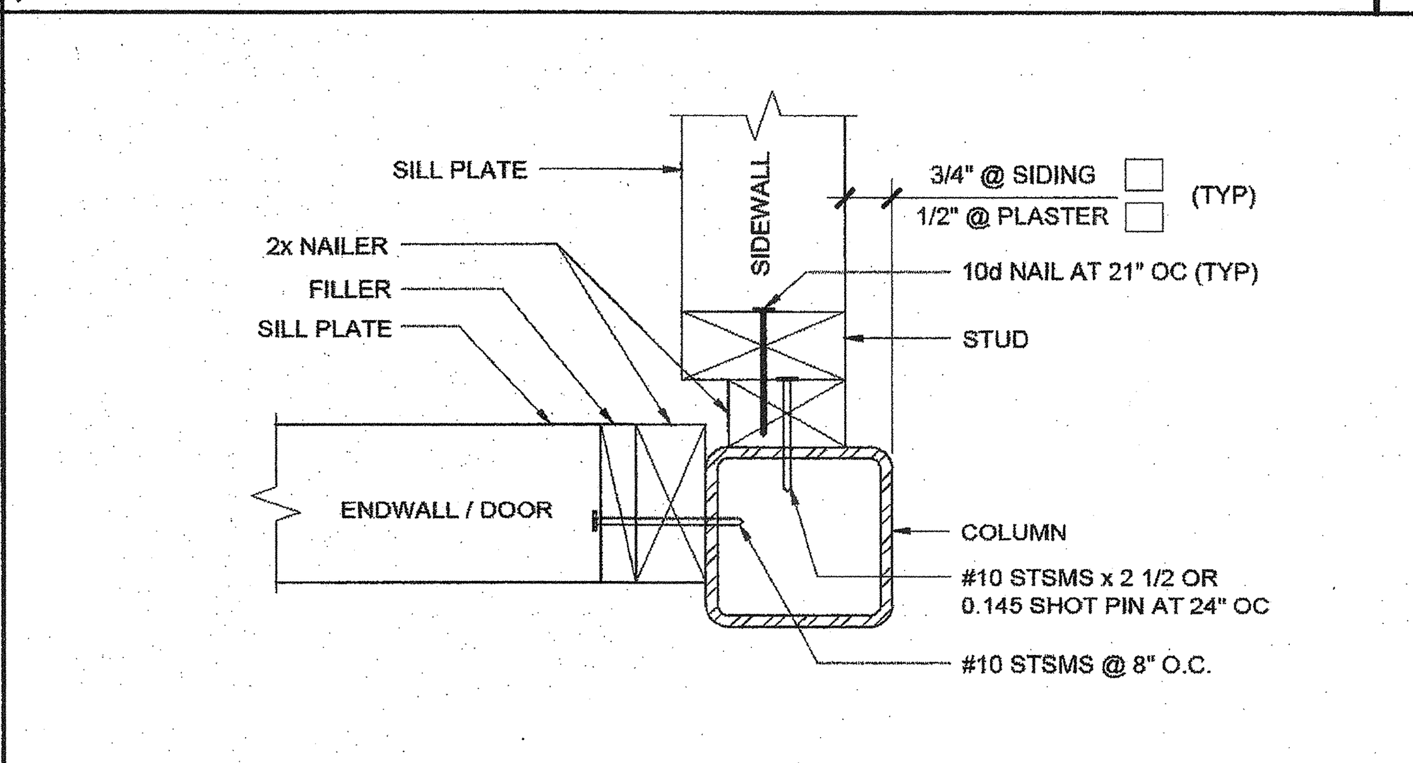
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER	HEADER SIZE	HEADER LUMBER	HEADER TYPE	SILL NUMBER	SILL SIZE	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER	FULL HEIGHT KING STUD SIZE	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(3)	2X4	DF	#2
	8040	NO PLASTER	(3)	2X4	HF	#2	(3)	2X4	HF	#2	(4)	2X4	HF	#2
		NO PLASTER (OPT)	(3)	2X4	DF	#2	(3)	2X4	DF	#2	(3)	2X4	DF	#2

NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

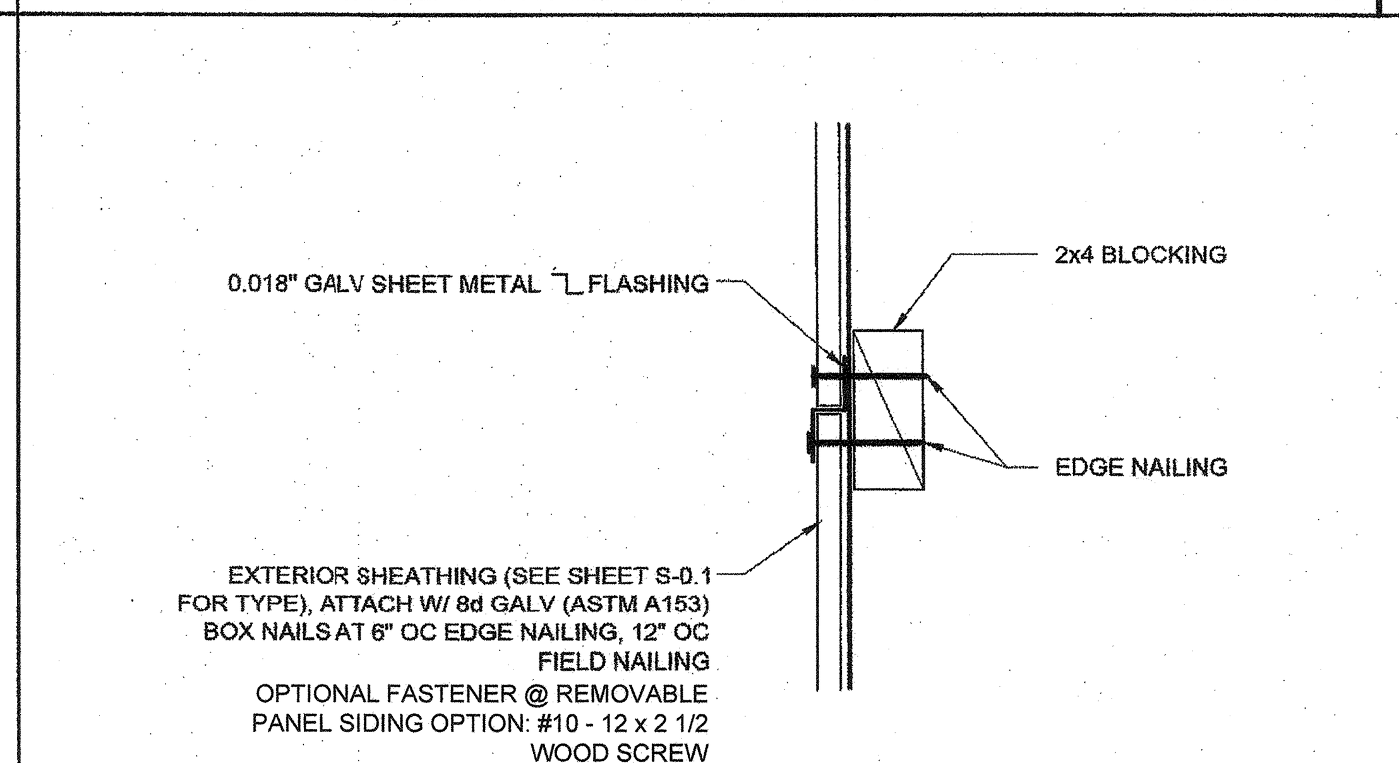
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 2/7
DATE 05/06/2019



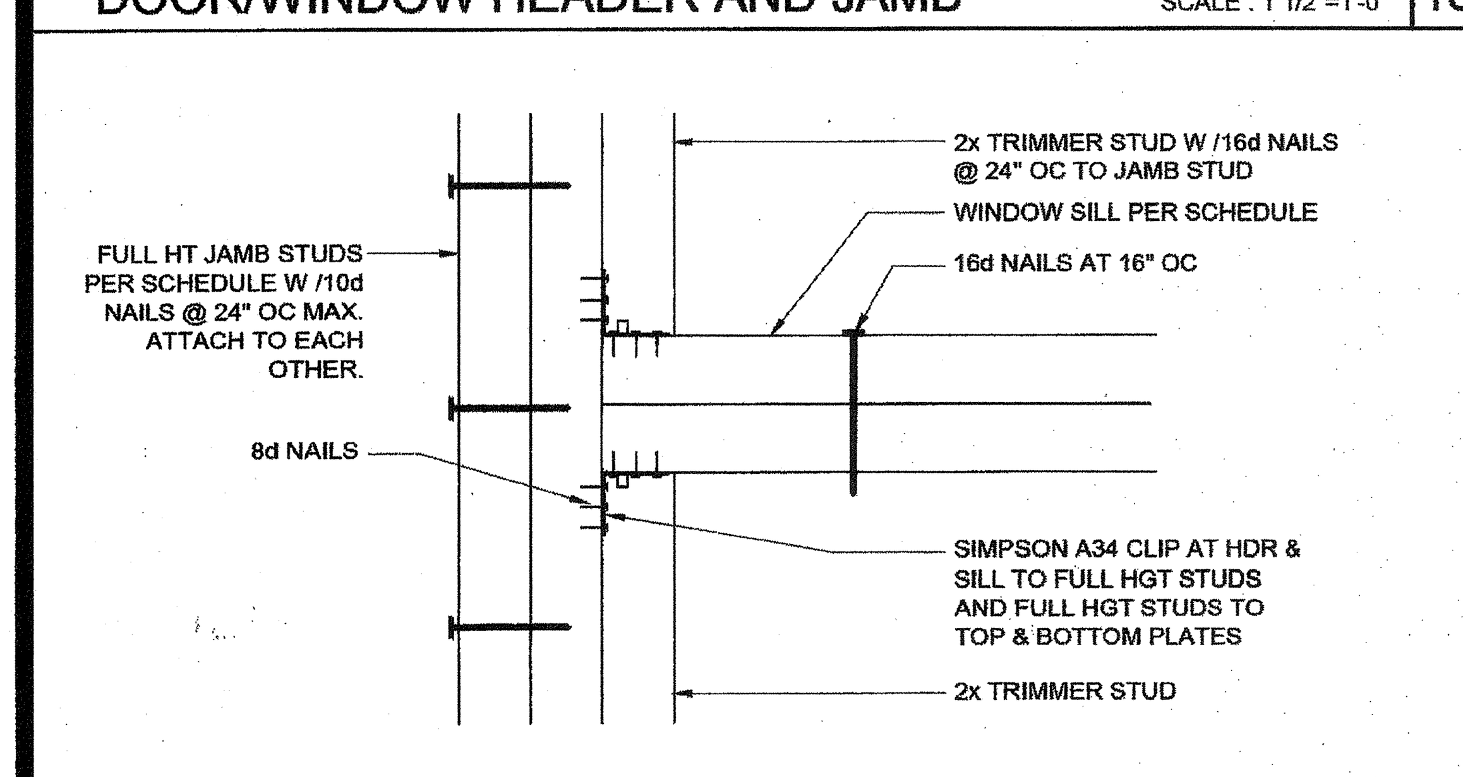
DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" 18



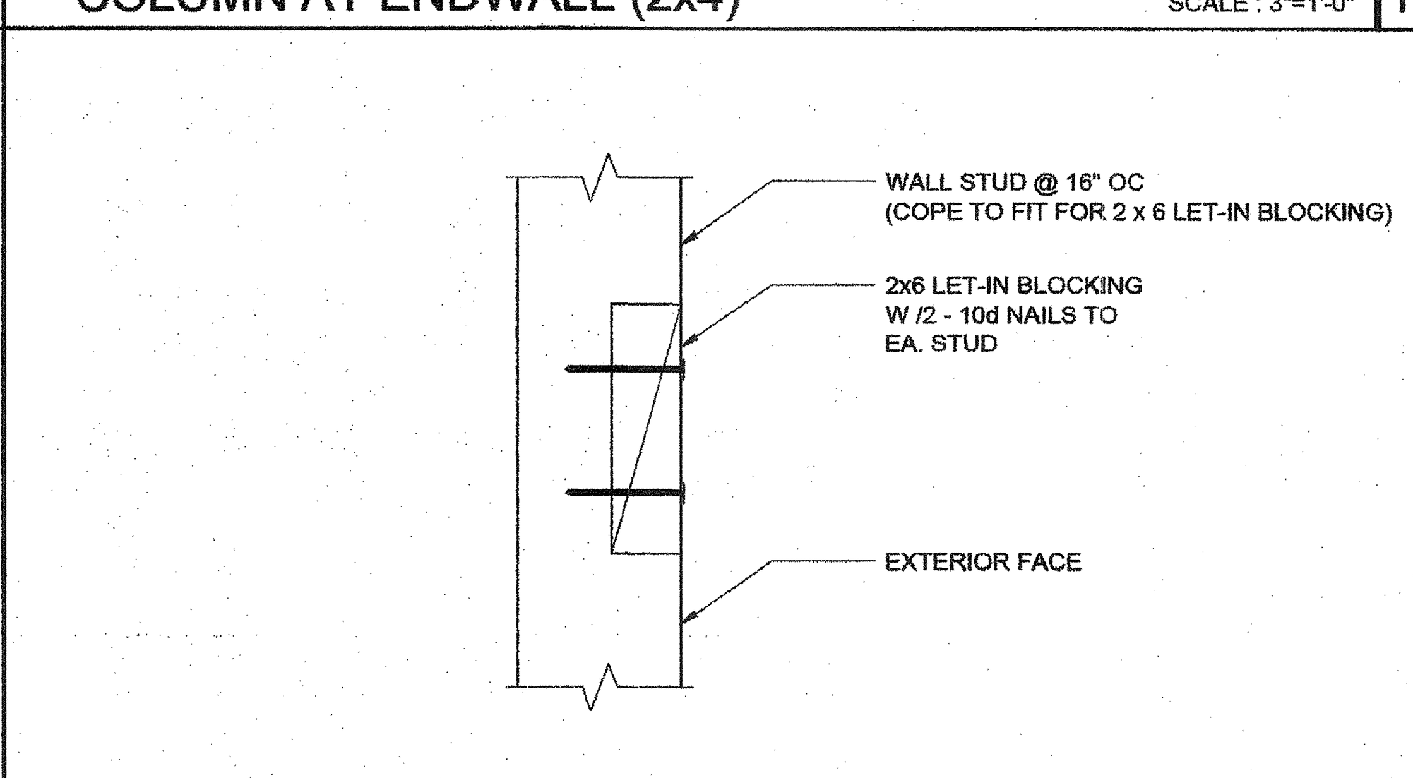
COLUMN AT ENDWALL (2x4) SCALE : 3"=1'-0" 13



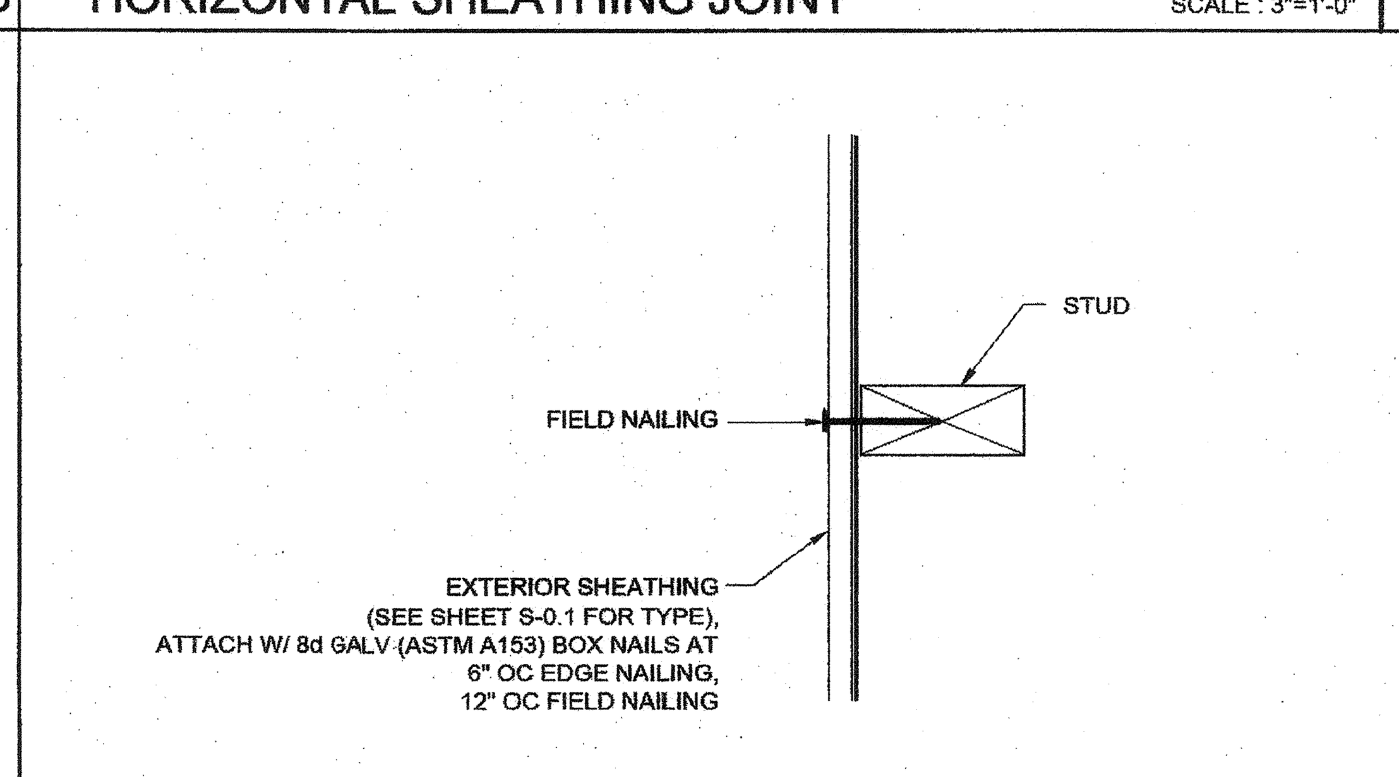
HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" 8



WINDOW SILL AND JAMB SCALE : 3"=1'-0" 19



LET-IN BLOCK ATTACHMENT SCALE : 3"=1'-0" 14

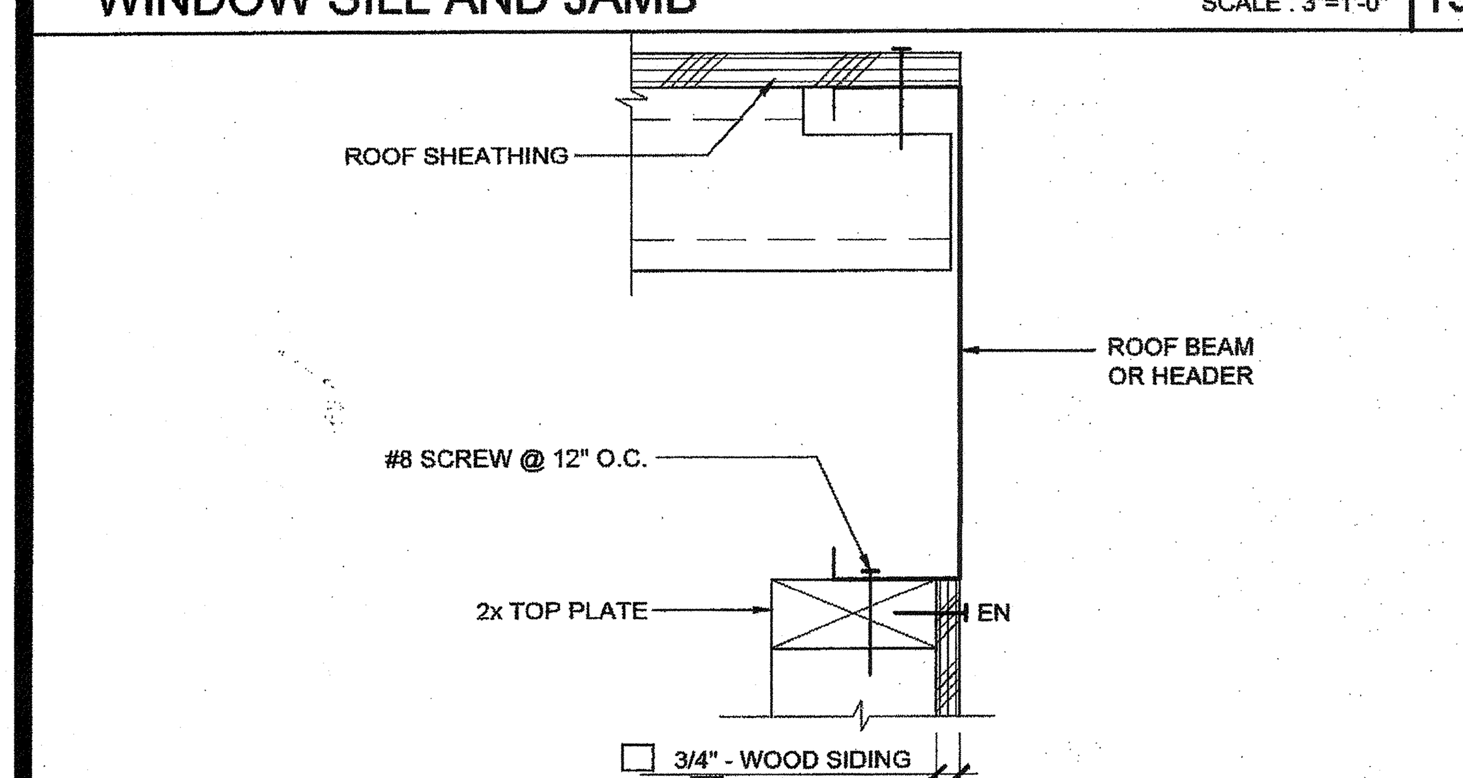


SECTION AT SHEATHING TO STUD ATTACHMENT SCALE : 3"=1'-0" 9

2x4 OPENING STUDS SCHEDULE (4)

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING NUMBER	SIZE	LUMBER	TYPE	OC	4' CORNER OF WOOD WALL FRAMING (ZONE 5) NUMBER	SIZE	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	12" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC

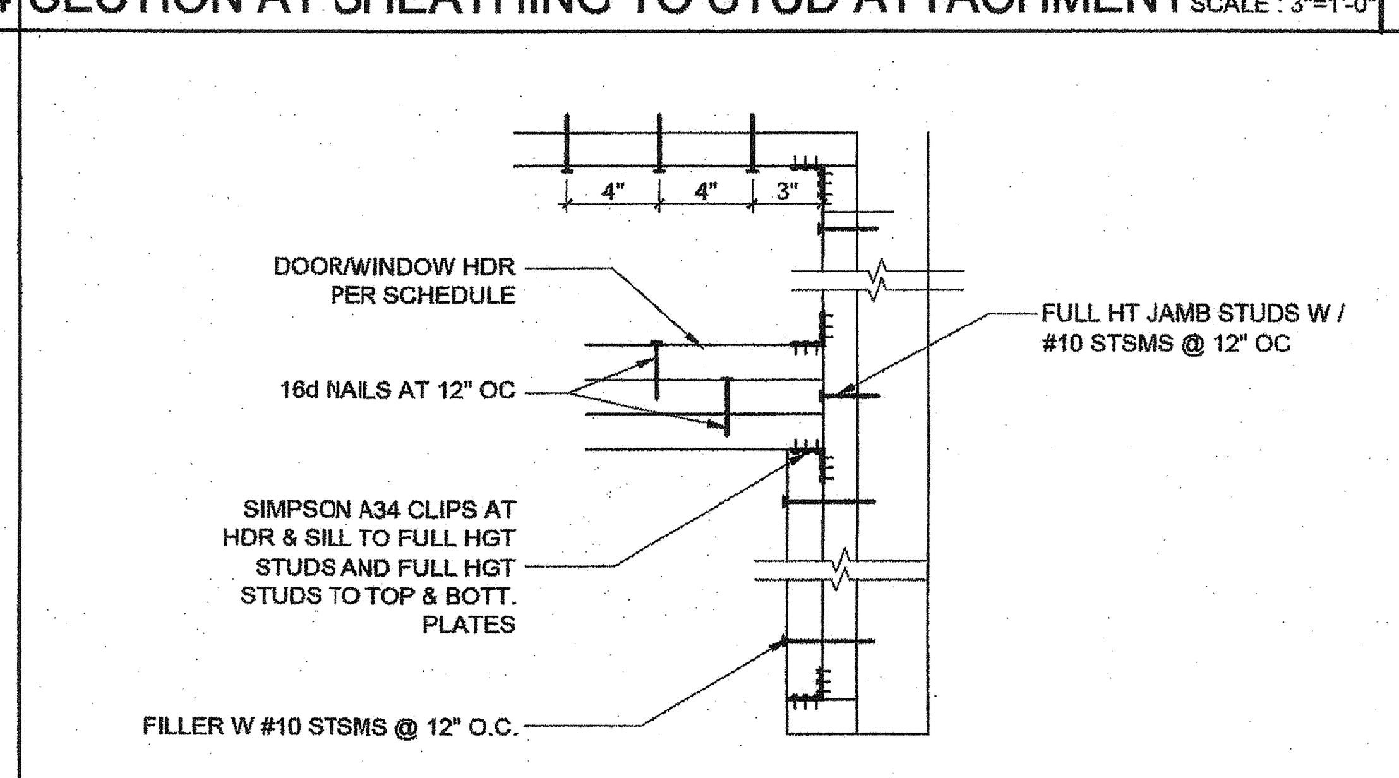
NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH



TOP PLATE AT ROOF BEAM SCALE : 3" = 1'-0" 20

DOOR	WINDOW	☐ STANDARD		☐ WELDED FRAME	
2070		26"	85"	28 1/4"	86 1/4"
3070		38"	85"	40 1/4"	86 1/4"
4070		50"	85"	52 1/4"	86 1/4"
6070		74"	85"	76 1/4"	86 1/4"
	4040	47 3/4"	47 5/8"	52 1/4"	52 1/4"
	6040	71 3/4"	47 5/8"	76 1/4"	52 1/4"
	8040	95 3/4"	47 5/8"	100 1/4"	52 1/4"
	6020	71 3/4"	23 5/8"	76 1/4"	28 1/4"
	8020	95 3/4"	23 5/8"	100 1/4"	28 1/4"

ROUGH OPENING SCHEDULE 15



DOOR/WINDOW HEADER @ COLUMN SCALE : 1 1/2"=1'-0" 10

2x4 WALL FRAMING SCHEDULE 5

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

TAVARES ASSOCIATES

C-33467
REN 01-31-2015
STATE OF CALIFORNIA

No. S3380
STRUCTURAL
STATE OF CALIFORNIA
6-25-2014

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 11...
AC ✓ FLS ✓
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL
PRE-CHECK (PC) DOCUMENT
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ✓ FLS ✓ SS RAF
DATE JUL - 8 2015

REVISIONS
1
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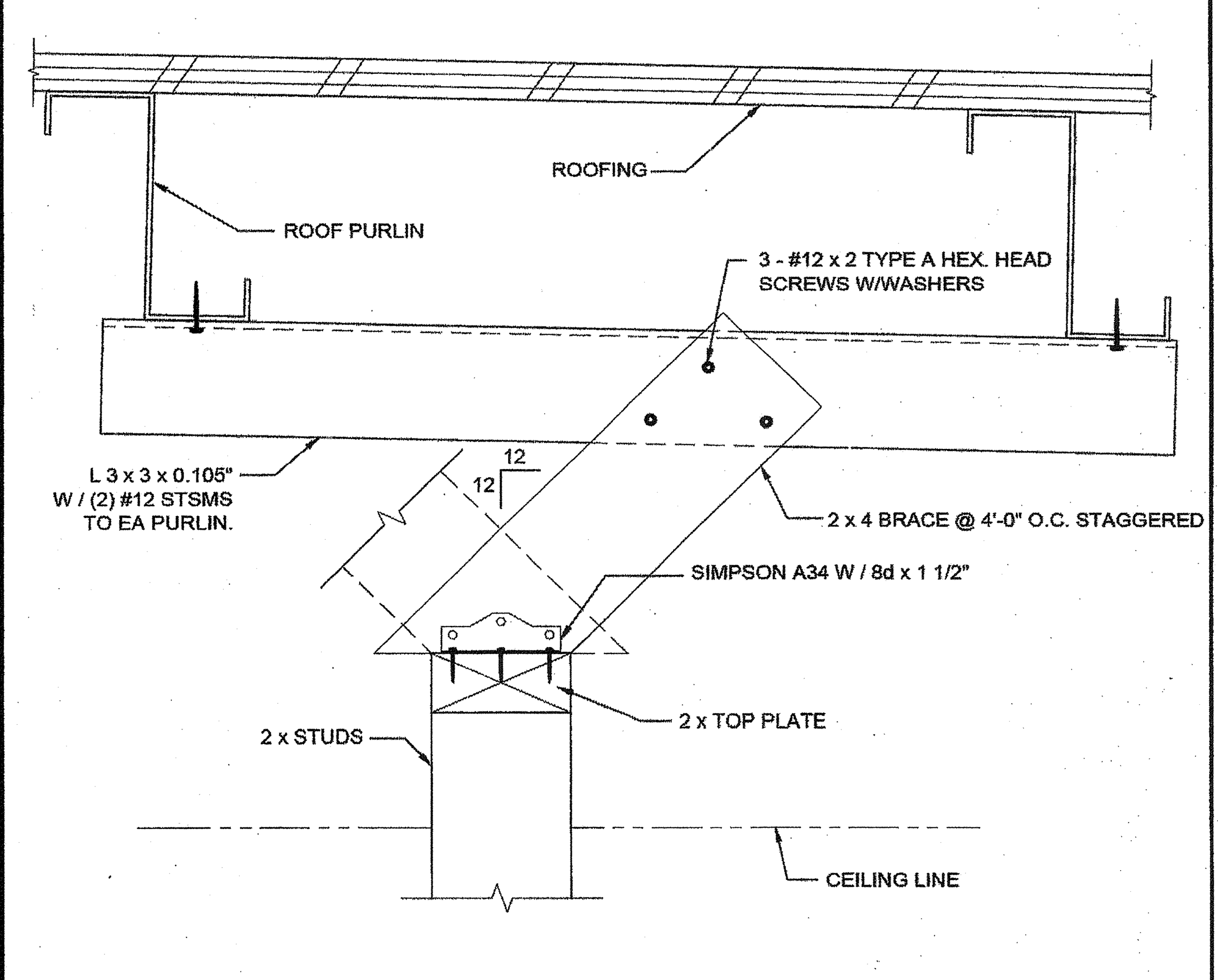
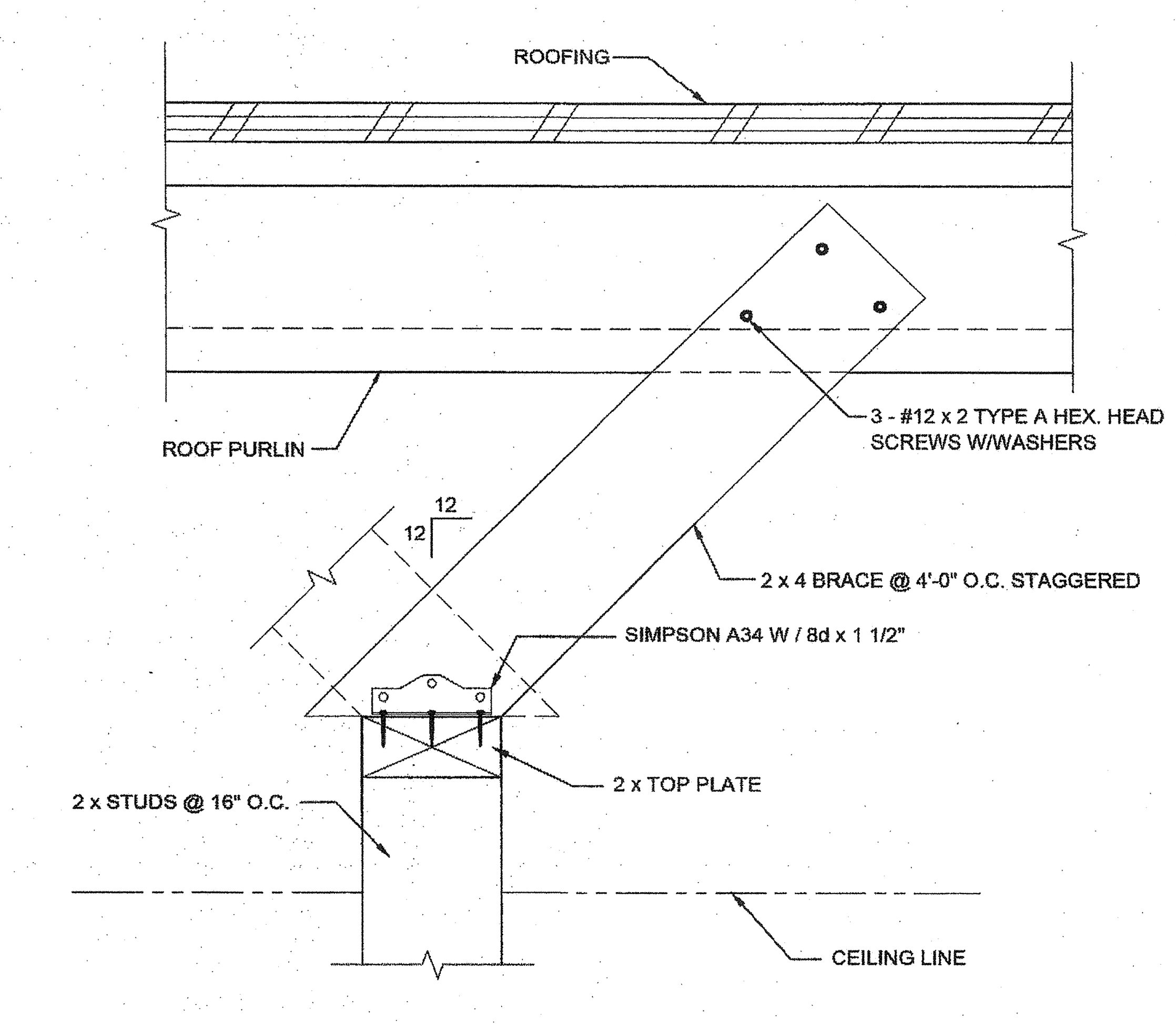
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

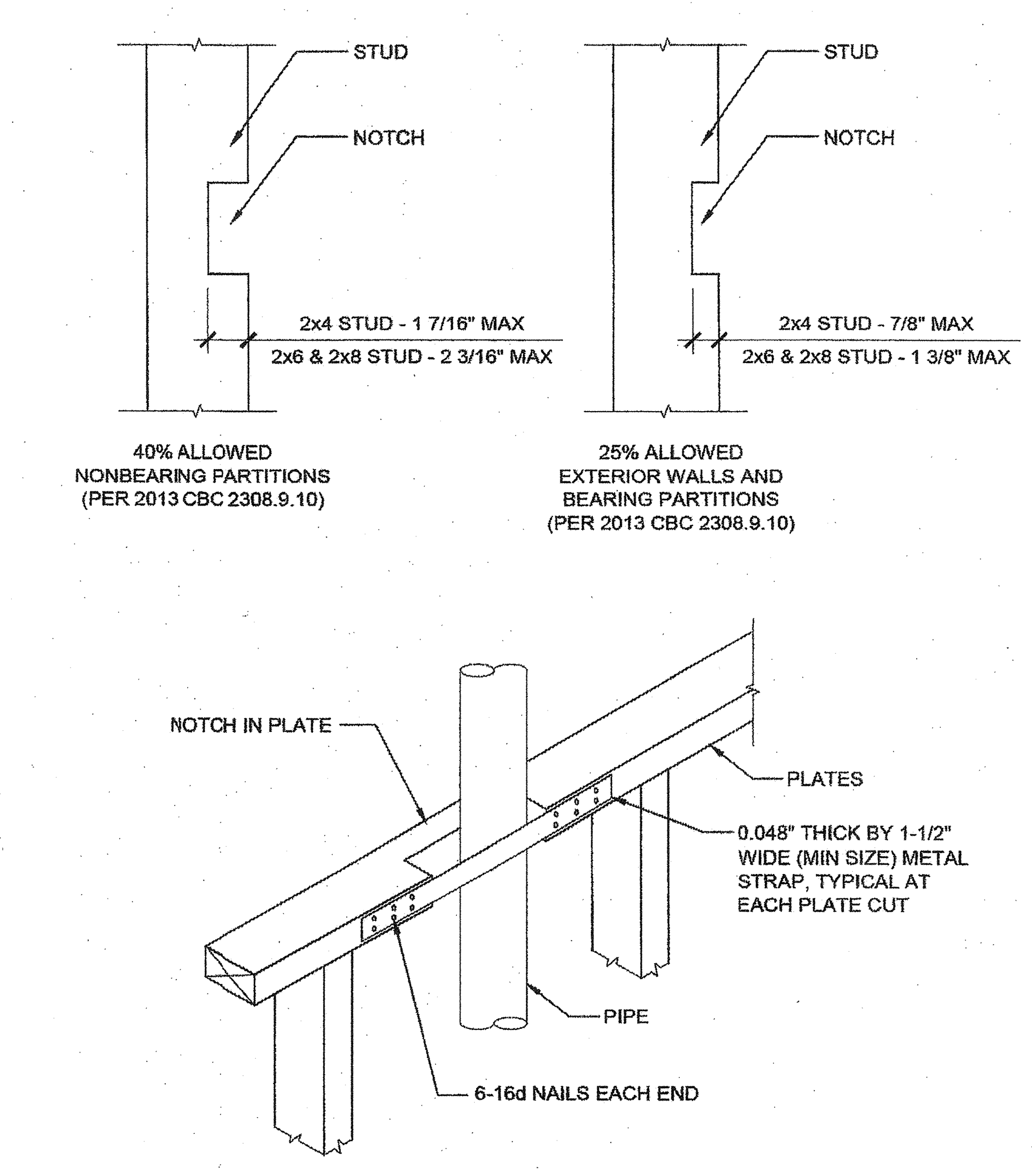
P.C. SHEET NUMBER
S-5.10
- - HIGH SEISMIC - -



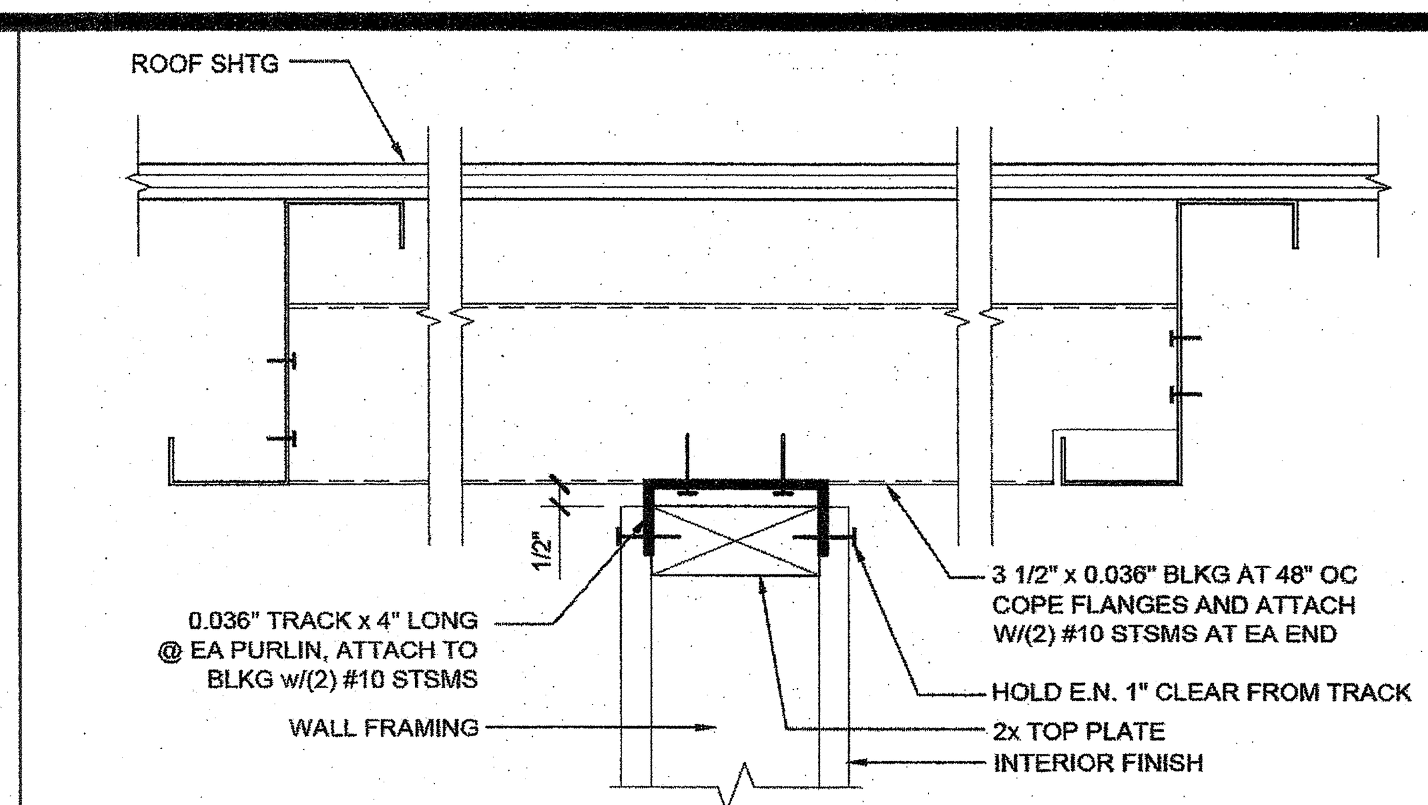
INTERIOR PARTITION
SCALE : 3" = 1'-0" 14



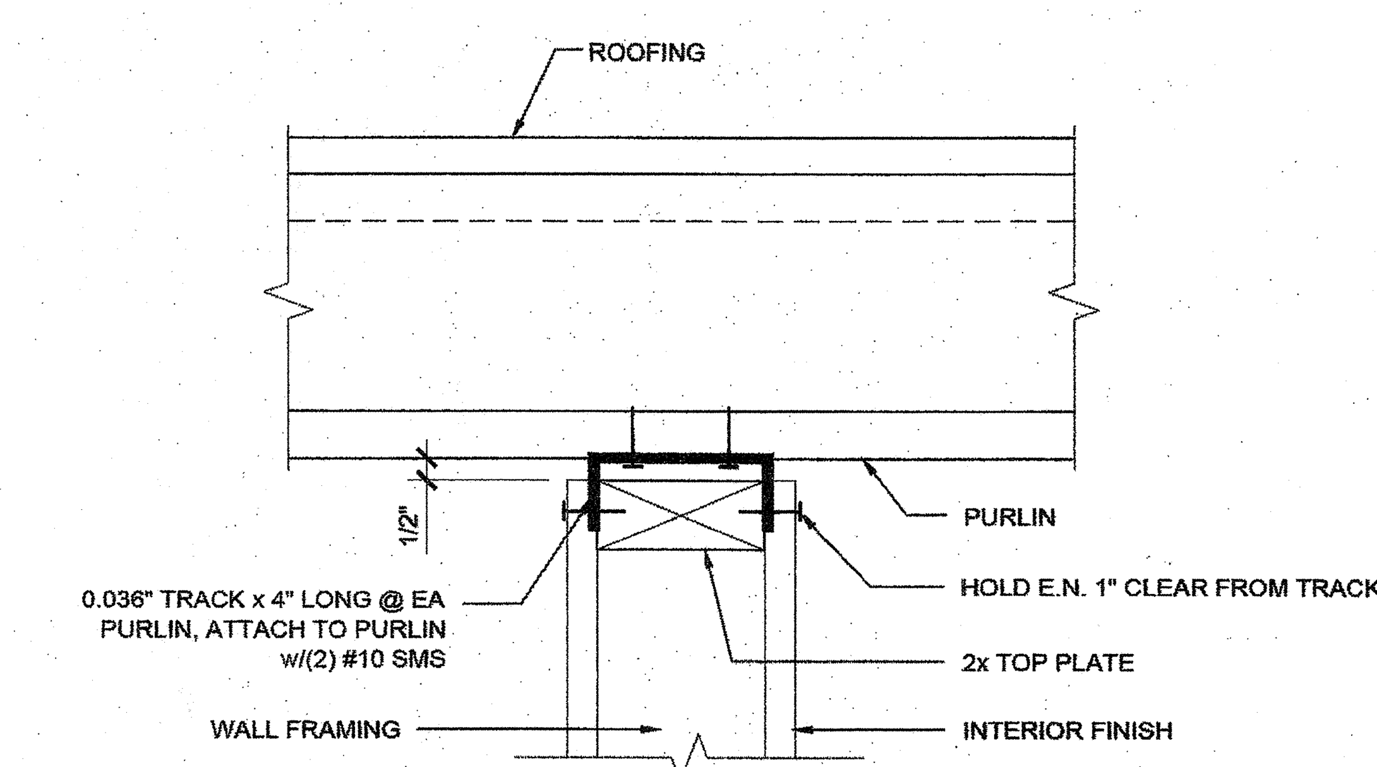
INTERIOR PARTITION
SCALE : 3" = 1'-0" 12



CUTTING AND NOTCHING
SCALE : 1 1/2" = 1'-0" 7



FULL HEIGHT INTERIOR PARTITION
SCALE : 3" = 1'-0" 1



FULL HEIGHT INTERIOR PARTITION
SCALE : 3" = 1'-0" 2

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER **	HEADER SIZE **	HEADER LUMBER	HEADER TYPE	SILL NUMBER **	SILL SIZE **	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER **	FULL HEIGHT KING STUD SIZE **	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(3)	2X6	HF	#2
		W/ PLASTER (OPT)	(2)	2X6	DF	#2	(2)	2X6	DF	#2	(2)	2X6	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x6 OPENING STUDS SCHEDULE
19

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER **	HEADER SIZE **	HEADER LUMBER	HEADER TYPE	SILL NUMBER **	SILL SIZE **	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER **	FULL HEIGHT KING STUD SIZE **	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(2)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x8 OPENING STUDS SCHEDULE
14

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING NUMBER **	WOOD WALL FRAMING SIZE **	WOOD WALL FRAMING LUMBER	WOOD WALL FRAMING TYPE	WOOD WALL FRAMING OC	4' CORNER OF WOOD WALL FRAMING (ZONE 5) NUMBER **	4' CORNER SIZE **	4' CORNER LUMBER	4' CORNER TYPE	4' CORNER OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

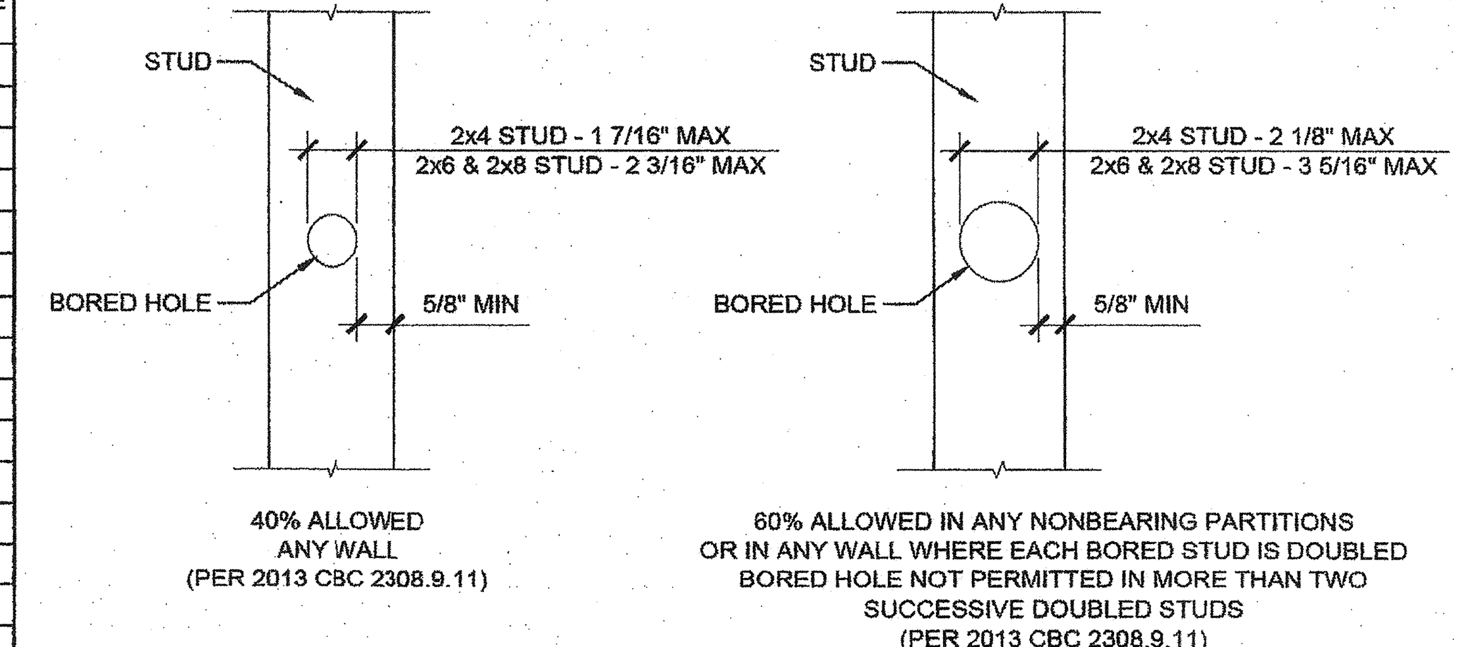
2x6 WALL FRAMING SCHEDULE
20

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING NUMBER **	WOOD WALL FRAMING SIZE **	WOOD WALL FRAMING LUMBER	WOOD WALL FRAMING TYPE	WOOD WALL FRAMING OC	4' CORNER OF WOOD WALL FRAMING (ZONE 5) NUMBER **	4' CORNER SIZE **	4' CORNER LUMBER	4' CORNER TYPE	4' CORNER OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

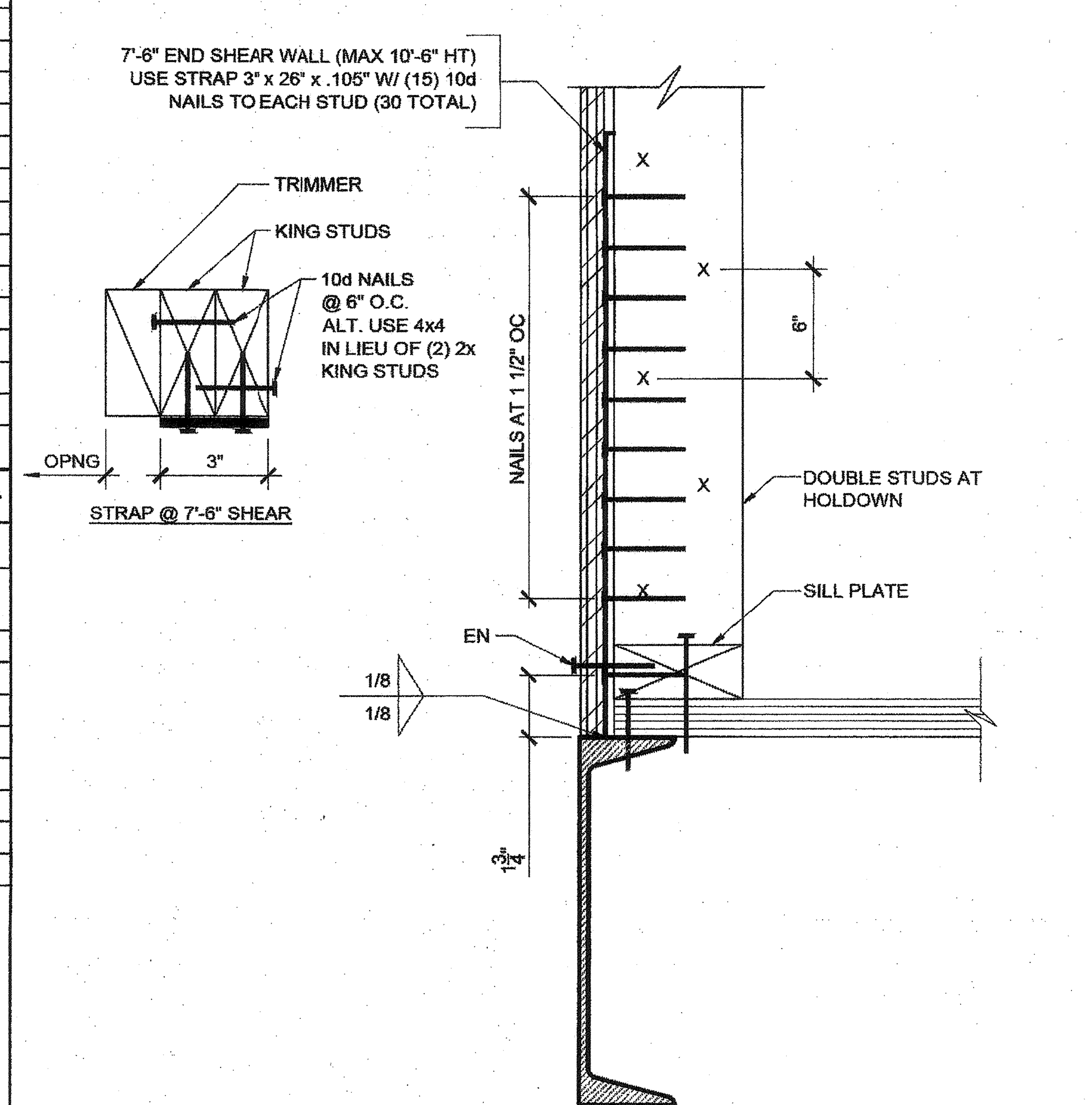
2x8 WALL FRAMING SCHEDULE
15



BORED HOLES
SCALE : 1 1/2" = 1'-0" 8

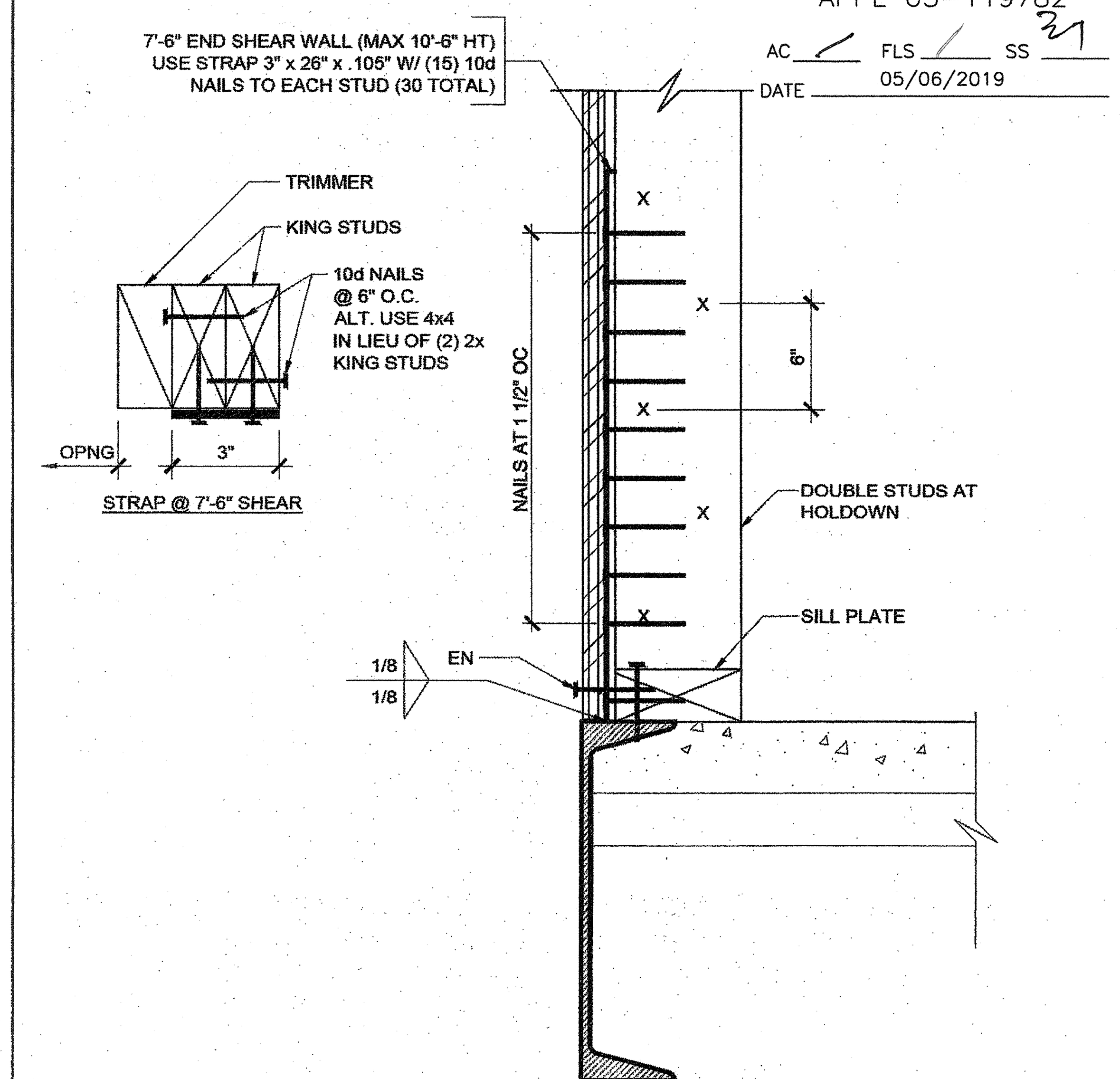
3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 21
DATE 05/06/2019



SCALE : 3"=1'-0"

ALT. HOLD DOWN AT ENDWALL OPENING - WOOD FLOOR
10



SCALE : 3"=1'-0"

ALT. HOLD DOWN AT ENDWALL OPENING - CONCRETE FLOOR
5

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
16875 W. BERNARDO DR. SUITE 285
SAN DIEGO, CA 92127 858.444.3344
WWW.RSTAVARES.COM

LICENSED ARCHITECT JACK SHIVELY III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRISCH No. S3380 STRUCTURAL STATE OF CALIFORNIA 6-25-2014

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116[illegible]7
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS
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3
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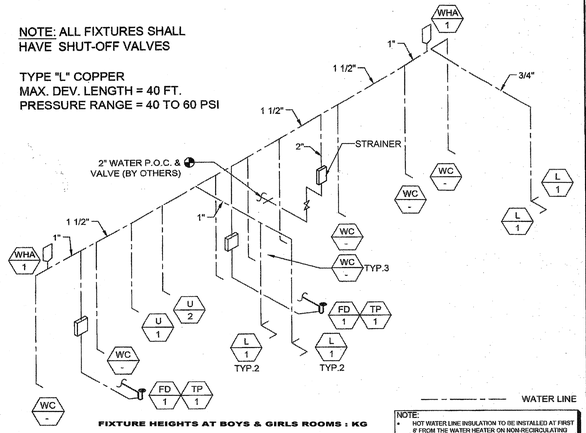
6
7
8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

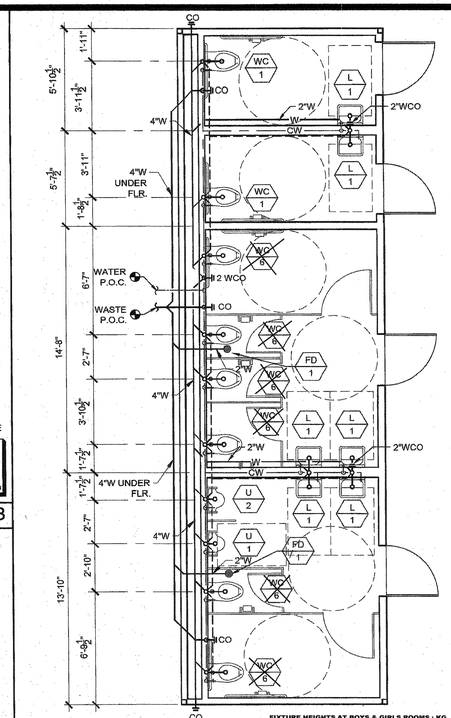
P.C. SHEET NUMBER
S-5.11
- - HIGH SEISMIC - -



MODEL C-2

SUPPLY ISOMETRIC - FLOOR AND WALL MOUNT

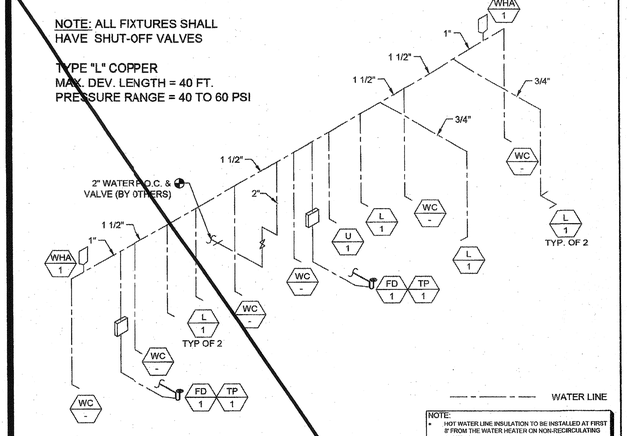
SCALE: N.T.S. | 8



WALL MOUNT - MODEL C-2

PLUMBING PLAN

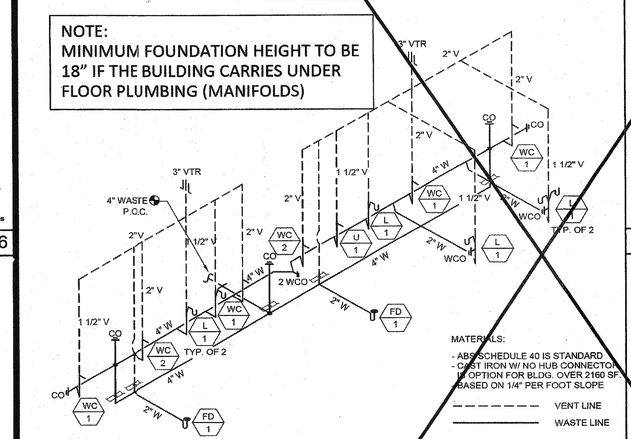
SCALE: 1/4" = 1-0" | 6



MODEL C-1

SUPPLY ISOMETRIC - FLOOR AND WALL MOUNT

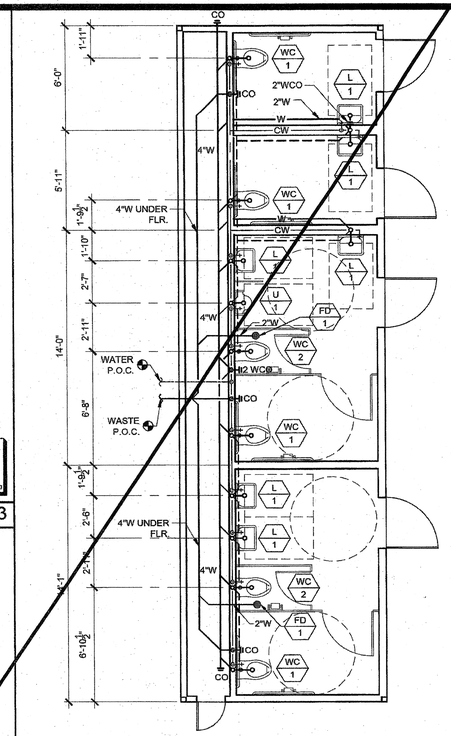
SCALE: N.T.S. | 3



MODEL C-1

WASTE AND VENTING ISOMETRIC - WALL MOUNT

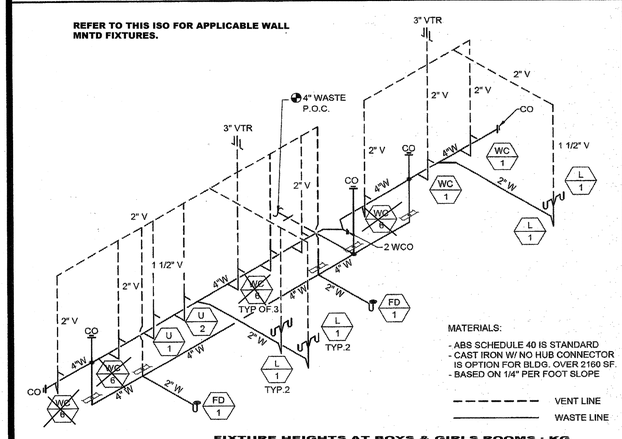
SCALE: N.T.S. | 4



WALL MOUNT - MODEL C-1

PLUMBING PLAN

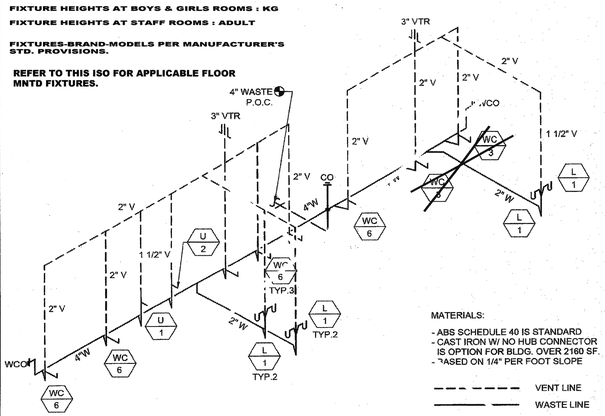
SCALE: 1/4" = 1-0" | 1



MODEL C-2

WASTE AND VENTING ISOMETRIC - WALL MOUNT

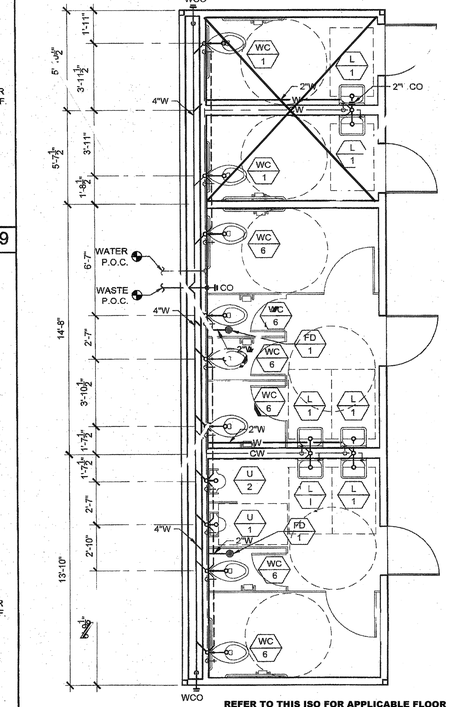
SCALE: N.T.S. | 9



MODEL C-2

WASTE AND VENTING ISOMETRIC - FLOOR MOUNT

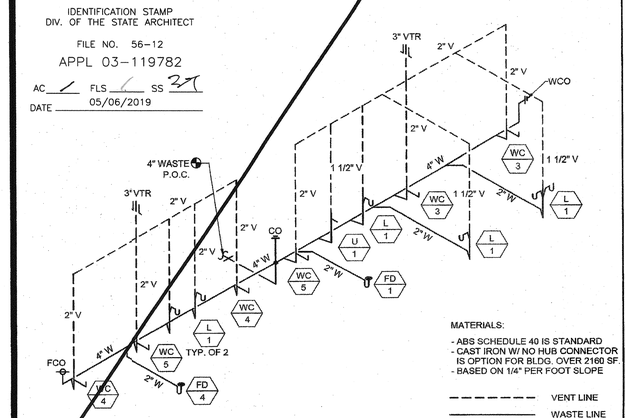
SCALE: N.T.S. | 10



FLOOR MOUNT - MODEL C-2

PLUMBING PLAN

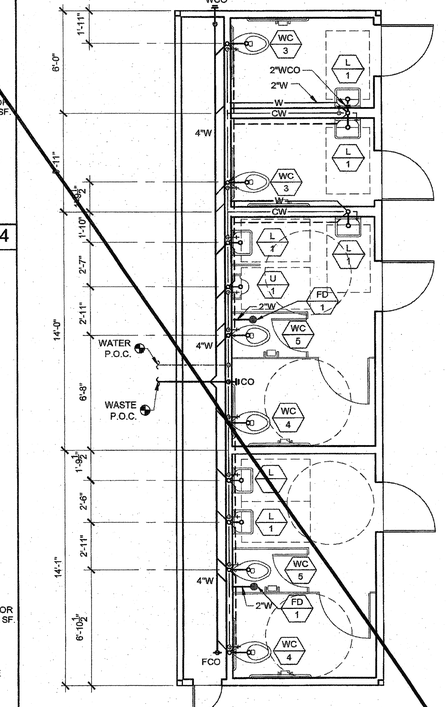
SCALE: 1/4" = 1-0" | 7



MODEL C-1

WASTE AND VENTING ISOMETRIC - FLOOR MOUNT

SCALE: N.T.S. | 5



FLOOR MOUNT - MODEL C-1

PLUMBING PLAN

SCALE: 1/4" = 1-0" | 2

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PLUMBING PLAN AND ISOMETRICS MODEL C-1 OR C-2 "ELEMENTARY"

LICENSED ARCHITECT DENNY SHIVELY III C-32467 REN 01-31-2015 STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
04 116512
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS

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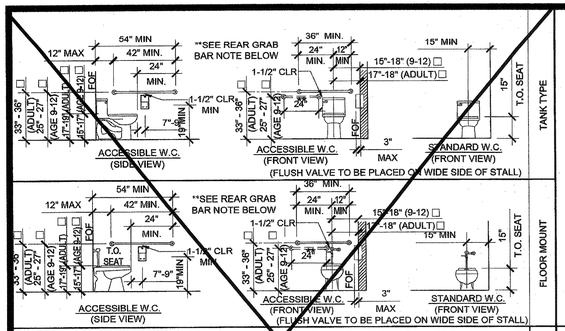
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

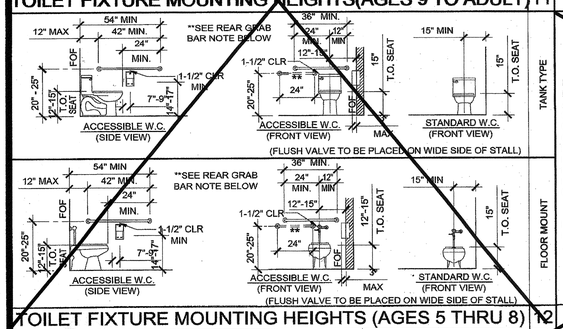
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

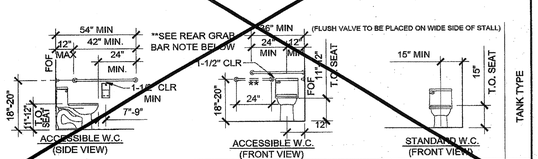
P-1.03E



TOILET FIXTURE MOUNTING HEIGHTS(AGES 9 TO ADULT) 11



TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 12



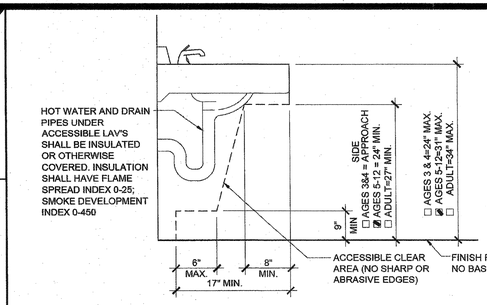
TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 13

NOTE:
MINIMUM FOUNDATION HEIGHT TO BE 18" IF THE BUILDING CARRIES UNDER FLOOR PLUMBING (MANIFOLDS)

FIXTURE HEIGHTS AT BOYS & GIRLS ROOMS : KG

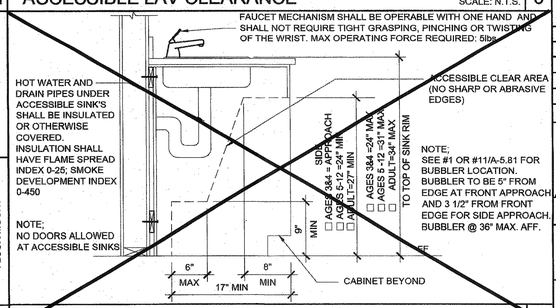
FIXTURE HEIGHTS AT STAFF ROOMS : ADULT

FIXTURES-BRAND-MODELS PER MANUFACTURER'S STD. PROVISIONS.



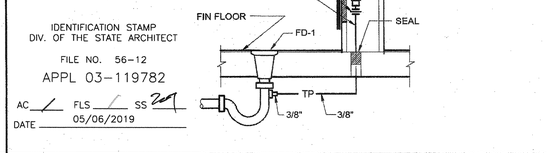
ACCESSIBLE LAV CLEARANCE

SCALE: N.T.S. 6



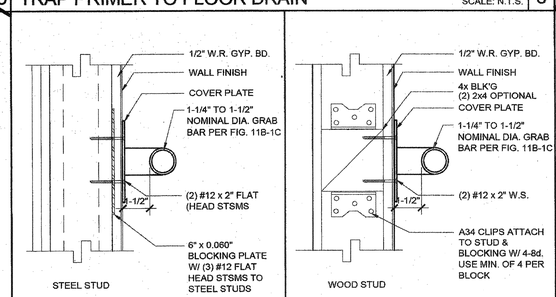
ACCESSIBLE SINK CABINET (OPTION)

SCALE: N.T.S. 7



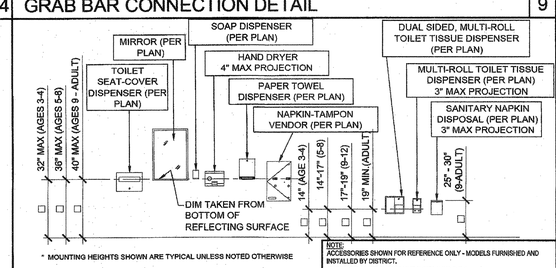
TRAP PRIMER TO FLOOR DRAIN

SCALE: N.T.S. 8



GRAB BAR CONNECTION DETAIL

9



TOILET ACCESSORIES MOUNTING HEIGHTS

10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 12"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	12" MAX.	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	36" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX. *	32" MAX. *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38	34" - 38	34" - 38"	34" - 38"

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

PLUMBING ACCESSORIES (REF. ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

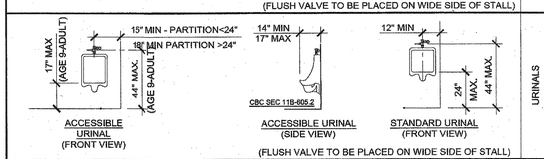
D TOILET SEAT DISPENSER: SURFACE MOUNTED

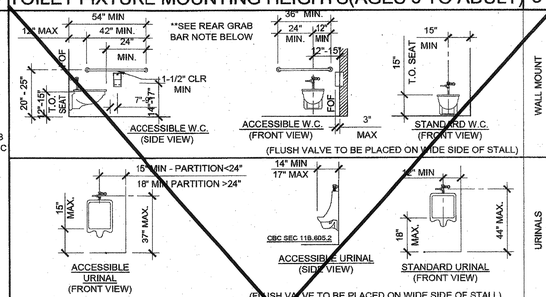
* 44" MAX. PER CODE.
[A] = ADULT; [E] = AGES 9-12; [K] = AGES 3-8

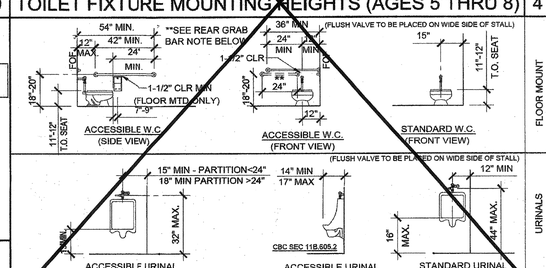
FIXTURE MOUNTING HEIGHTS

2

		COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 11	[AGE 5-8] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; CHURCH 2L215ST (2" LIFT) SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 12	[AGE 5-8] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	AMERICAN STANDARD 2598.001 MADERA YOUTH (1.28 GPF) 14" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCT-ELONGATED WHITE PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE







PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD ADA PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 2	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD ADA PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 3	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO ADA PF1723 (1.28 GPF) ALT: AMERICAN STD ADA 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 4	[AGE 9-12] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 5	[AGE 9 TO ADULT] WATER CLOSET FLOOR MTD/FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 6	[AGE 3-4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010" VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
WC 7	[ADULT] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO ADA PF9403 (1.28 GPF) ALT: AMERICAN STANDARD ADA 2758.128, 17 HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 8	[AGE 9-12] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 9	[AGE 9 TO ADULT] WATER CLOSET TANK TYPE (NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 10	[AGE 3-4] WATER CLOSET TANK TYPE (ACCESSIBLE & NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER, OLYMPIA #6161 SINGLE HANDLE FAUCET (AMERICAN STANDARD 9141.011 TO BE USED @ KINDER APPLICATIONS ONLY) (0.5 GPM)
UR 1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.5 GPF) ALT: AMERICAN STANDARD 6550.005 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.5 LOW CONSUMPTION FLUSHOMETER VALVE
UR 2	URINAL (NON-ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.5 GPF) ALT: AMERICAN STANDARD 6550.005 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.5 LOW CONSUMPTION FLUSHOMETER VALVE
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/2" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
GB 1	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"X24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL
PAR 1	TOILET PARTITION	-	-	-	-	UPGRADED PLASTIC MODESTO PARTITIONS BRAND: PER MANUFACTURER'S STD COLOR: PER CUSTOMER SELECTIONS
SS 1	SERVICE SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6714 "BANNON" 22"X18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHICAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
CS 1	CLASSROOM SINK (OPTION)	1/2"	1/2"	2"	1 1/2"	JUST CRA-1725-A-GR 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #350 AND BUBBLER JSB-10
WH 1	WATER HEATER (OPTION)	3/4"	3/4"	-	-	☐ A.O. SMITH #DEL-6 (6 GALLON) ☐ A.O. SMITH #DEL-10 (10 GALLON) (SEE SHEET A-4.32)
WH 2	INSTANT WATER HEATER (OPTION)	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A
DF 1	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	HALSEY-TAYLOR / BI-LEVEL HAC8FSBL-Q / COOLING TYPE

★★ NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE REPLACED W/ A 24" GRAB BAR AND SHIFTED TO THE OPEN SIDE OF THE TOILET AREA PER 11B-604.5.2. PROVIDE A 24" GRAB BAR AT SAME ELEVATION AS THE SIDE GRAB BAR WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PLUMBING DETAILS AND SCHEDULE

LICENSED ARCHITECT JOSE SHIVELY III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 116 AC FLS SS DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 04-114135 AC FLS SS RAF DATE JUL - 8 2015

REVISIONS

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SILVER CREEK INDUSTRIES 12' x 40' PC (HIGH SEISMIC)

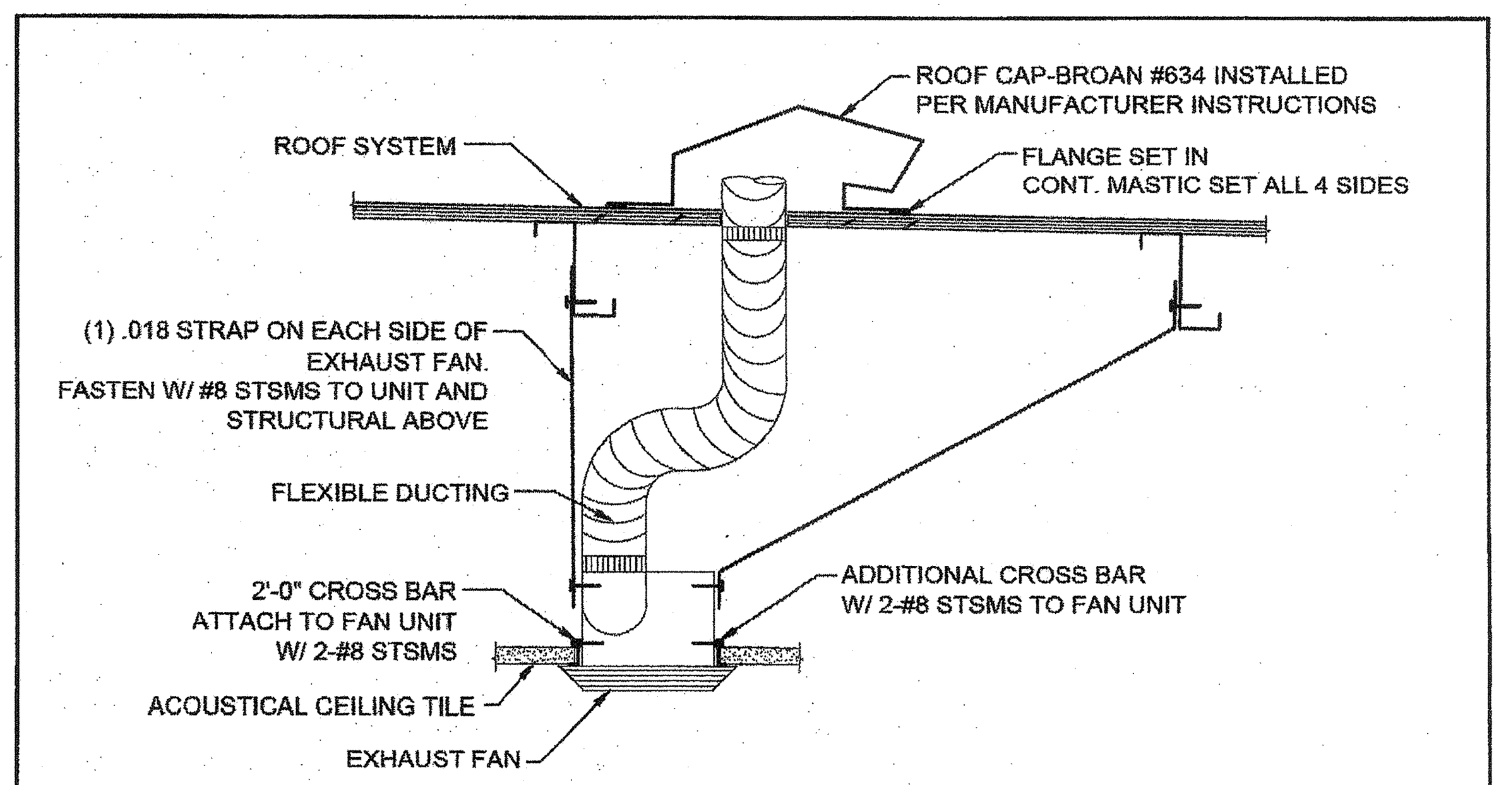
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

P-2.01

LEGEND

SYMBOL	ABB.	DESCRIPTION
	SAD	SUPPLY AIR DUCT
	RAD	RETURN AIR DUCT
	EAD	EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	CD	SUPPLY CEILING DIFFUSER
	CR	RETURN CEILING REGISTER
	ER	EXHAUST CEILING REGISTER
	VTR	VENT THRU ROOF
	FD	FIRE DAMPER
	MVD	MANUAL VOLUME DAMPER
UC	UC	UNDERCUT DOOR
(T)	STAT	THERMOSTAT
(BT)	BT	BYPASS TIMER
	P.O.C	POINT OF CONNECTION



EXHAUST FAN INSTALLATION

SCALE : 1"=1'-0"

CEILING MOUNTED EXHAUST FAN SCHEDULE

SYM.	LOCATION	SERVICE	MANUF.	MODEL	CFM	SONES	SP	ELECTRICAL			WGT.	REMARKS
								VOLTS	Ø	POWER		
EF 1	CEILING	TOILET EXHAUST	BROAN*	676	100	4.0	0.25	120	1	156 WATTS	7 LBS.	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 2	CEILING	TOILET EXHAUST	BROAN*	L100	109	1.0	0.25	120	1	87 WATTS	22.80 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 3	CEILING	TOILET EXHAUST	BROAN*	L200	210	2.0	0.25	120	1	127 WATTS	23.0 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 4	CEILING	TOILET EXHAUST	BROAN*	L300	308	2.8	0.25	120	1	212 WATTS	23.10 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

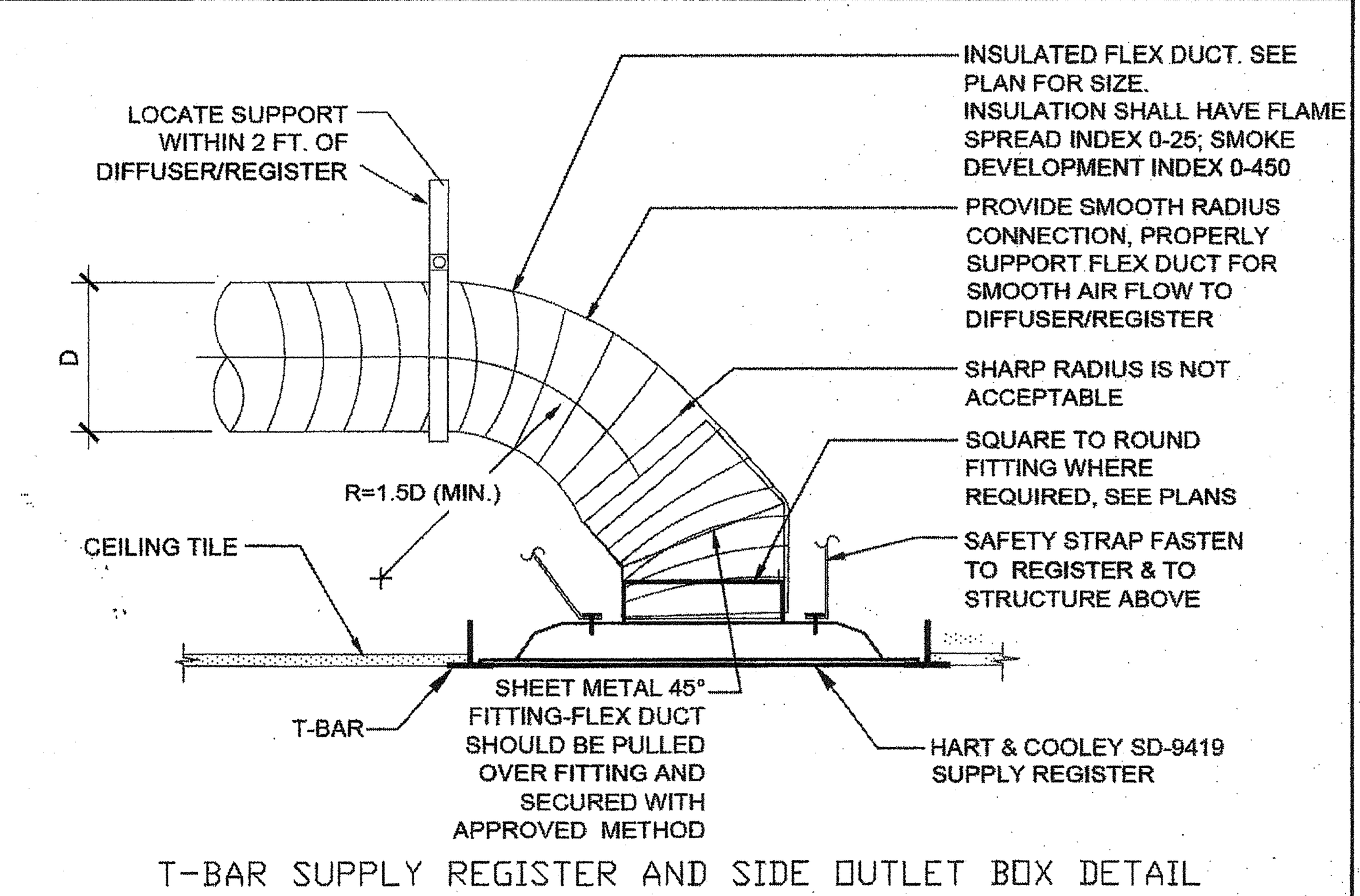
*OR APPROVED EQUAL.

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR SUPPLY	6"Ø	0 - 150	Fixed Curve Blade, 4-way throw
	8"Ø	150 - 230	For lay-in T-bar ceilings use Harth & Cooley SD-9419 . (Sizes as shown on Mech Plan)
16X16-4W	10"Ø	230 - 350	
	12"Ø	350 - 460	
	14"Ø	460 - 640	

PERFORATED FACE GRILLE SCHEDULE (RETURN)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR RETURN	6"Ø	0 - 230	Perforated face
	10"Ø	230 - 460	For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.)
	14"Ø	460 - 710	

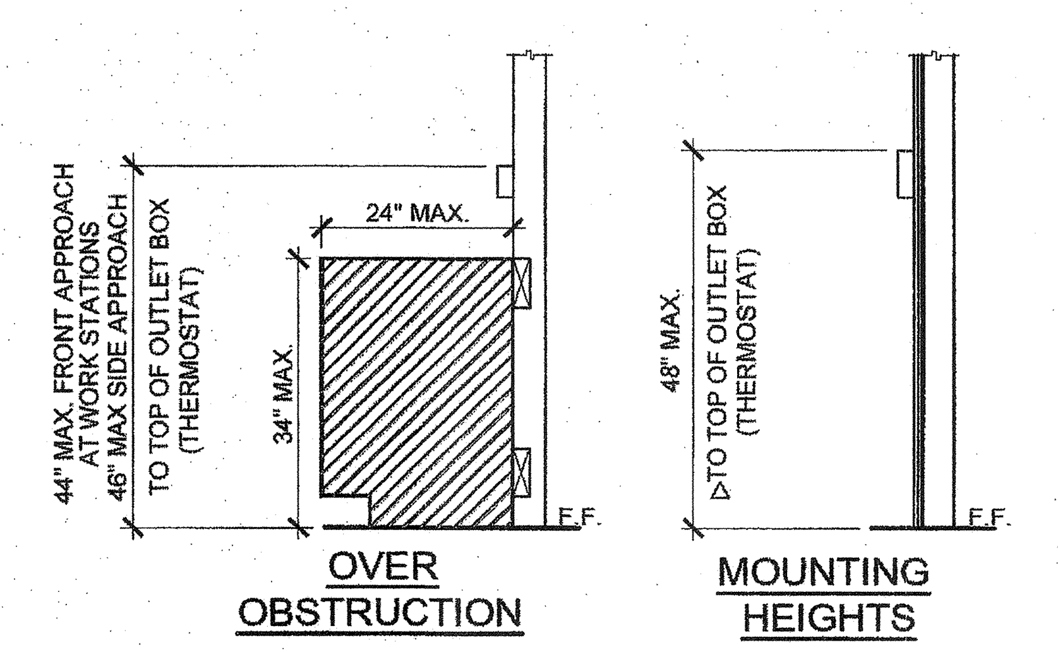


T-BAR SUPPLY REGISTER AND SIDE OUTLET BOX DETAIL

N.T.S.

SUPPLY CEILING DIFFUSER MOUNTING

SCALE: NONE — D



△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

GENERAL NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
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3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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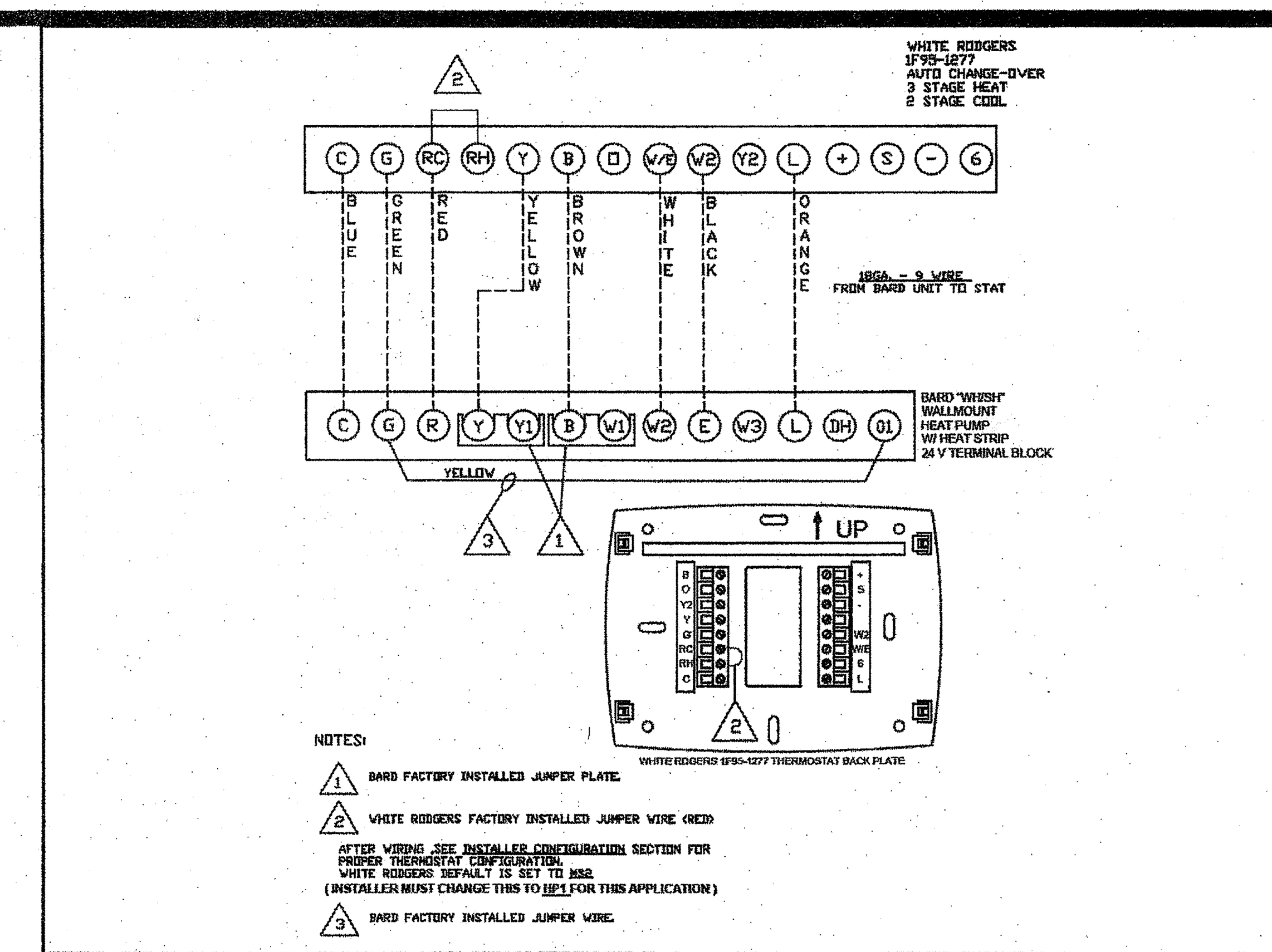
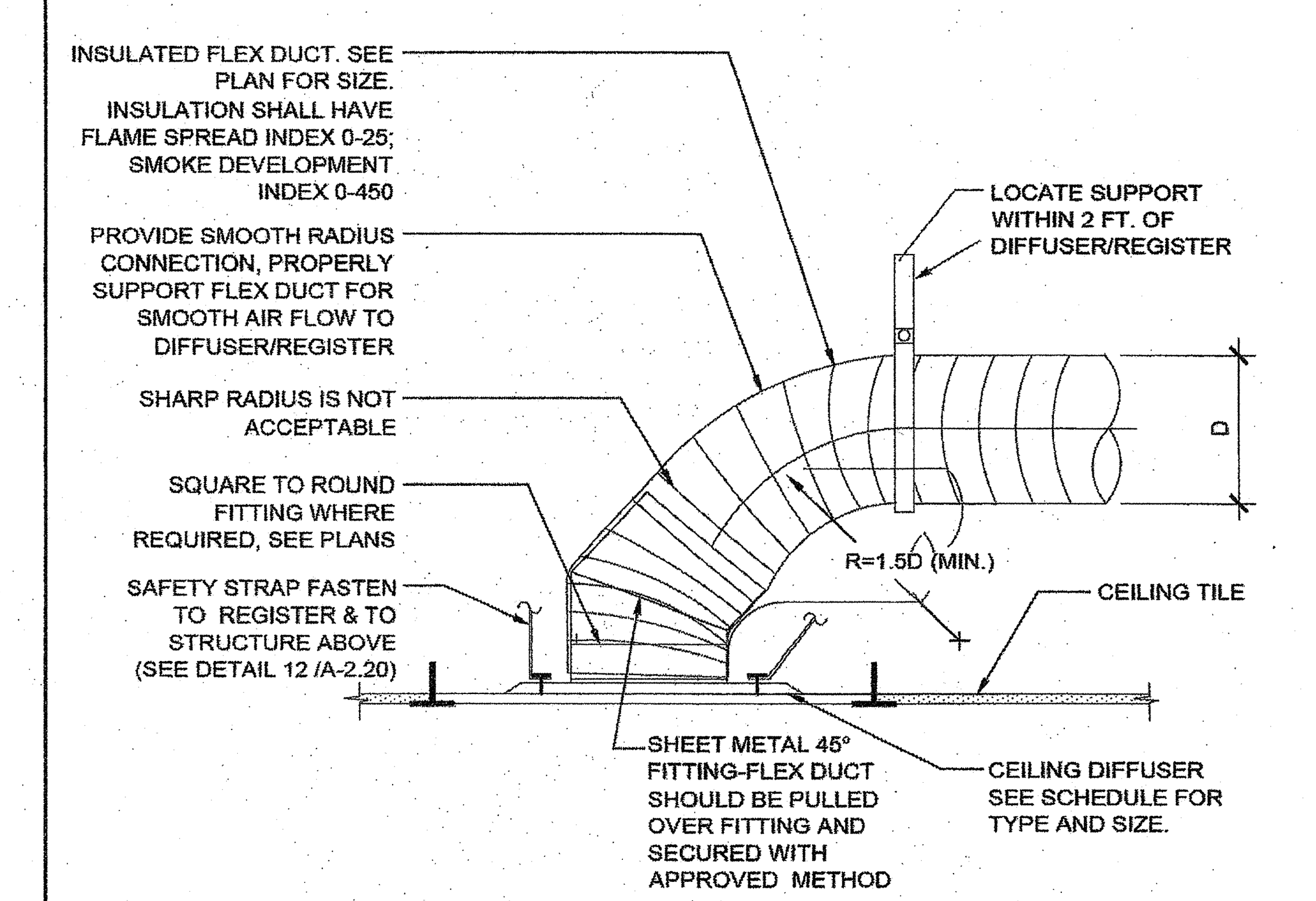
COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.



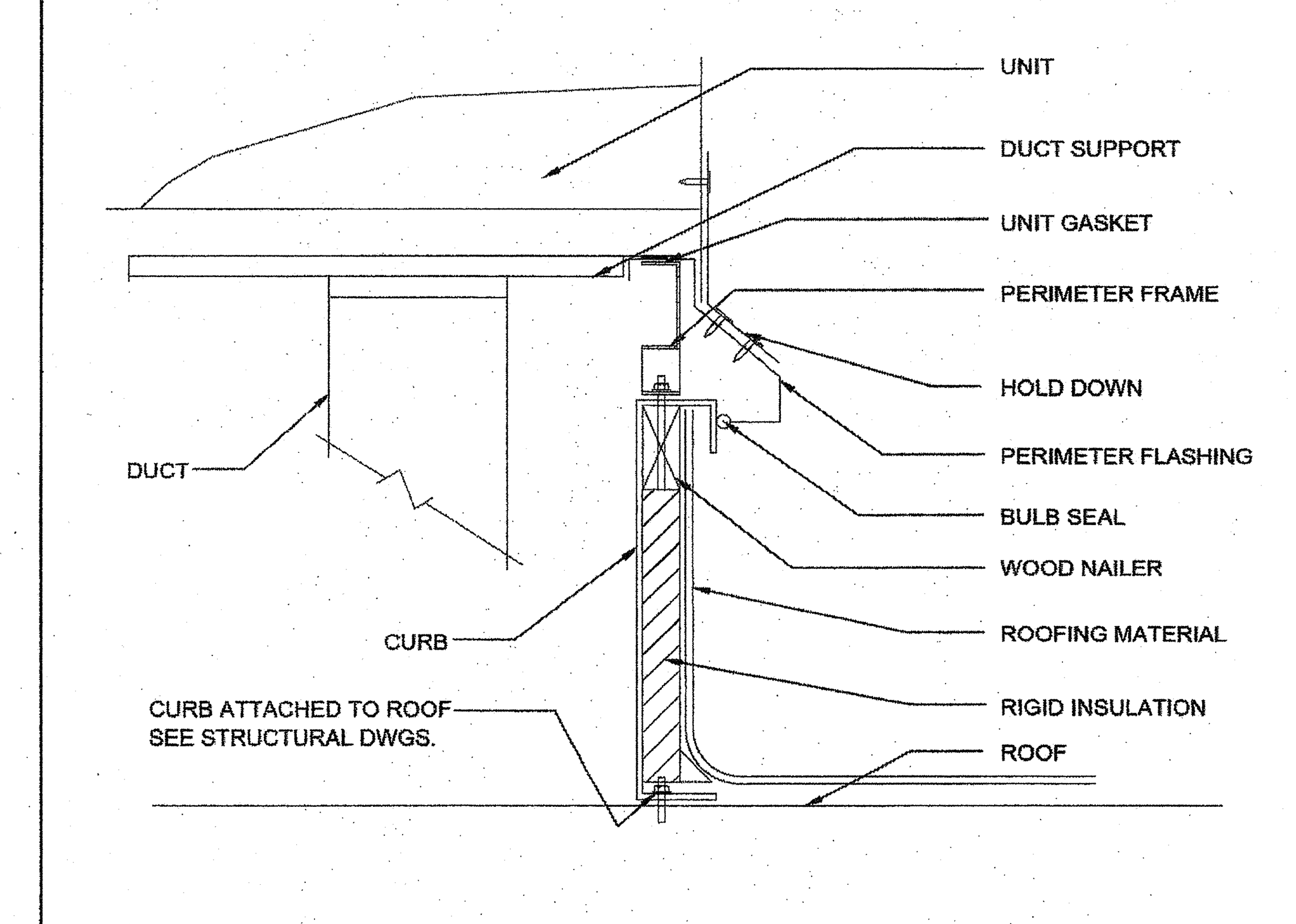
UNIT TO THERMOSTAT WIRING

SCALE: NONE — A



RETURN CEILING DIFFUSER MOUNTING

SCALE: NONE — B



A/C UNIT MOUNTING

SCALE: NONE — C

BUILDING SIZES VARY. SEE KEY PLANS ON SHEET A-0.3 FOR APPROPRIATE HVAC TONNAGE PER BUILDING SIZE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS 27
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

LICENSED ARCHITECT — C-33467 — REN 01-31-2015 — STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116517
ACS ___ FLS ___ SS ___
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC ___ FLS ___ SS RAF
DATE JUL - 8 2015

REVISIONS

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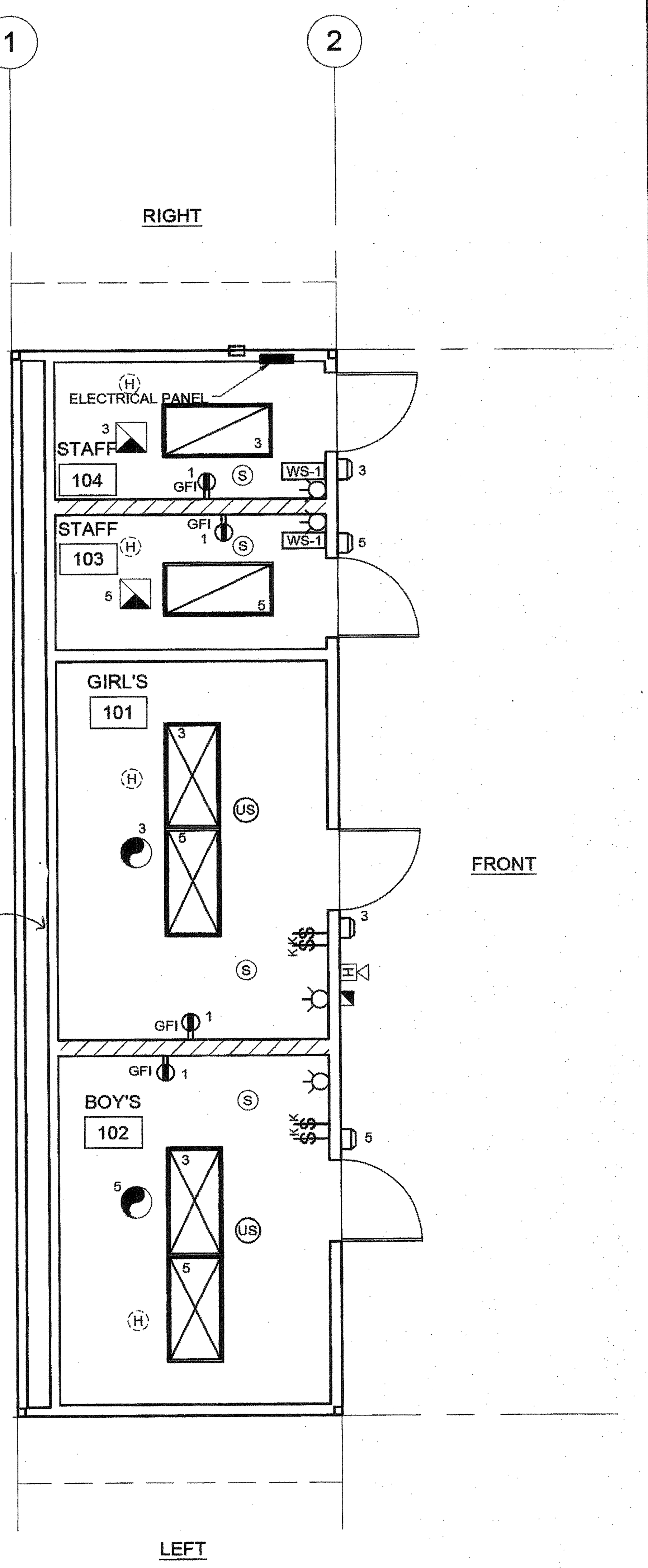
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

P.C. SHEET NUMBER

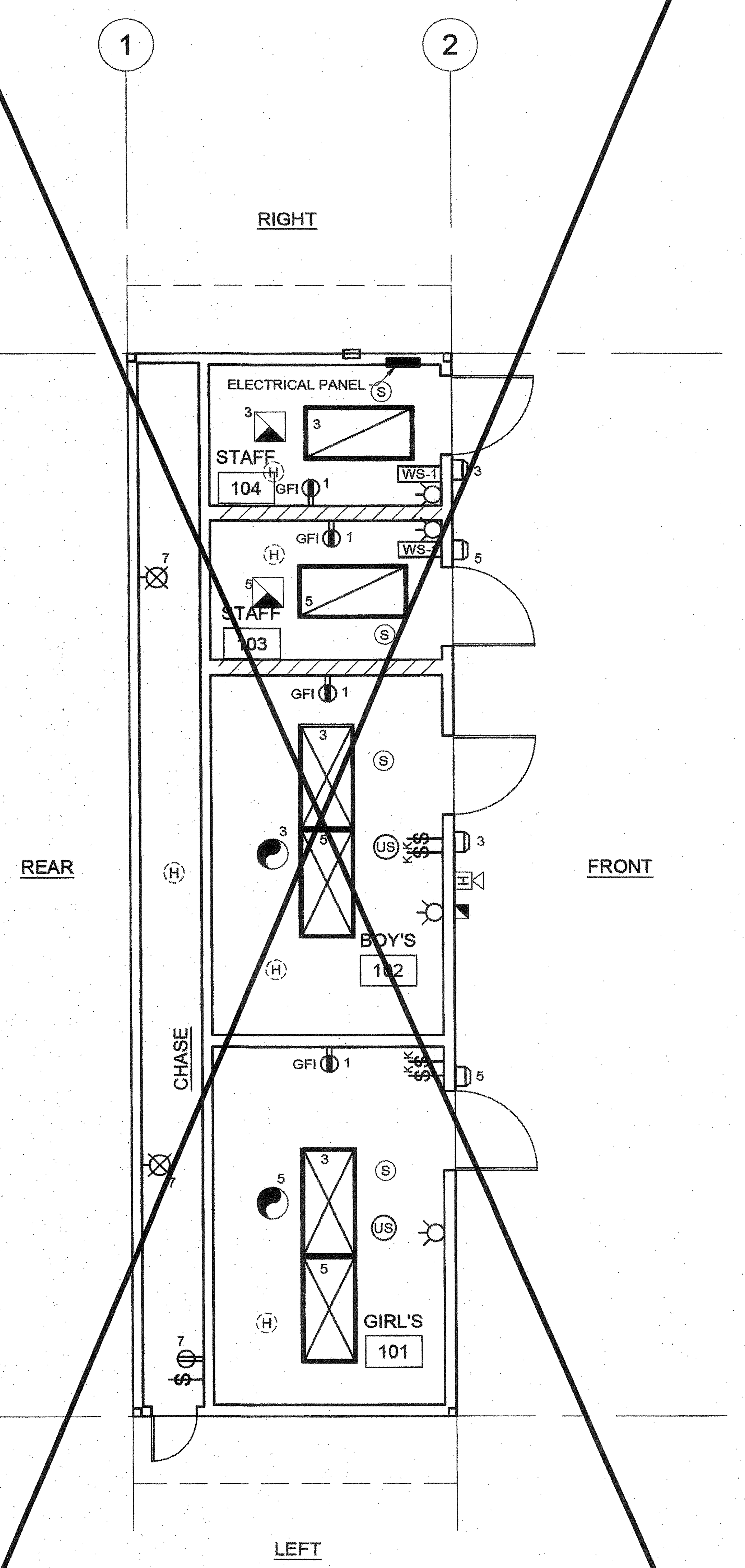
M-0.1



NOTE;
PROVIDE ACCESS TO HEAT DETECTOR WHEN PROVIDED.

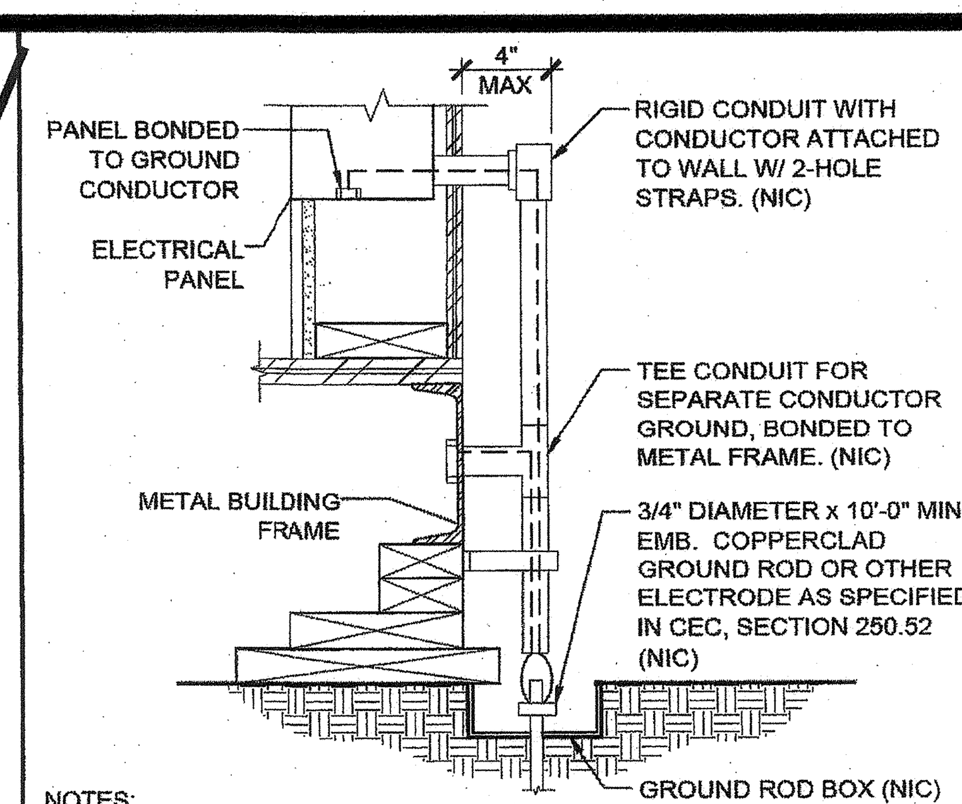
ELECTRICAL PLAN - MODEL C-2

SCALE: 1/4" = 1'-0" | 5



ELECTRICAL PLAN - MODEL C-1

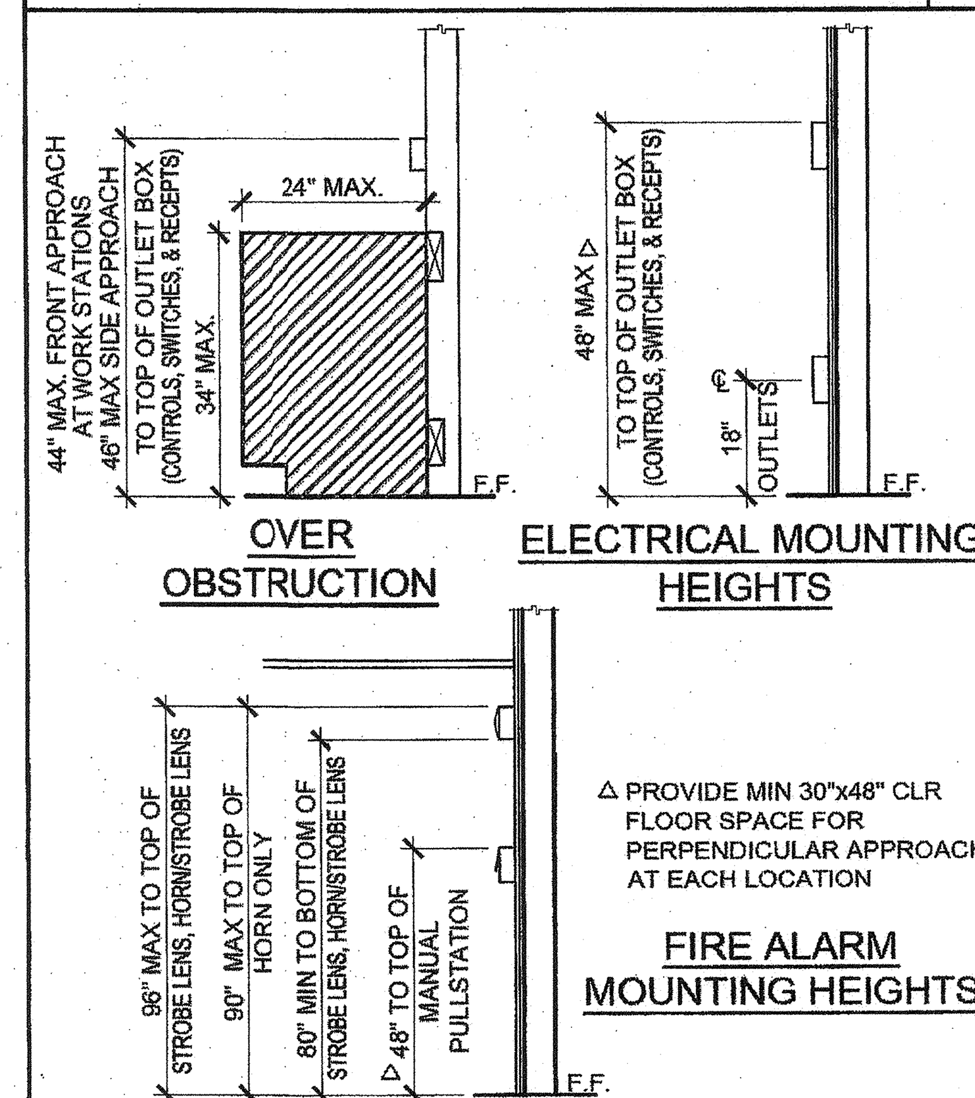
SCALE: 1/4" = 1'-0" | 4



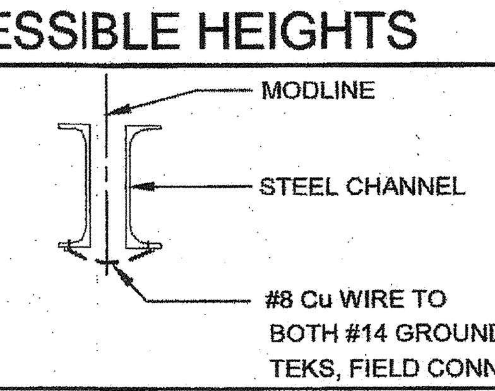
NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

TYPICAL GROUNDING DETAIL | 1



ACCESSIBLE HEIGHTS | 2



GROUND JUMPER AT MODLINE | 3

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

SCHOOL EQUIPMENT ANCHORAGE

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THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72, 10.6.5.2.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4" x 4" SQ	18.0	8	7	6	0
4S	1 1/2" x 4" SQ	21.0	9	8	7	0
4SD	2 1/8" x 4" SQ	30.3	13	12	10	6
4SX	2 7/8" x 4" SQ	43.5	23	21	17	10
5SD	2 1/8" x 4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8" x 4-11/16" SQ	86.0	38	34	28	17
664	4" x 6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

- 2x4 CEILING LIGHT WITH (3) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH ELECTRONIC BALLAST ORACLE LIGHTING - MODEL 24.OT.332.2.T8A12.L41K.C4 WATTAGE: 32W T8 (48"LG) OR EQUAL
- 2x4 CEILING LIGHT WITH (2) T-8 LAMPS, LAY-IN FLUORESCENT LIGHT FIXTURE WITH ELECTRONIC BALLAST ORACLE LIGHTING - MODEL 24.OT.332.2.T8A12.L41K.C4 WATTAGE: 32W T8 (48"LG) OR EQUAL
- OPTIONAL 1x4 CEILING LIGHT WITH (1) T-8 LAMP, LAY-IN FLUORESCENT LIGHT FIXTURE WITH ELECTRONIC BALLAST
- ELECTRICAL PANEL AT +60" AFF TO CENTERLINE OF MAIN CIRCUIT BREAKER WITH 1 1/2" DIA POWER STUB OUT
- (US) CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO LIGHT SWITCHES FOR MANUAL OVERRIDE.
- WS-1 WALL MOUNTED OCCUPANCY SENSOR. WATTSTOPPER PW-100 (SINGLE SWITCH) OR EQUAL. MOUNT SENSOR AT +44" AFF
- WALL MOUNTED INTERIOR LIGHT FIXTURE AT +93" A.F.F. W/ CFL LIGHT BULB 16W MAX
- $ LIGHT SWITCH. MOUNT AT +44" AFF TO CENTERLINE OF DEVICE
- $K KEYED SWITCH AT +44" AFF TO CENTERLINE OF DEVICE
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- GFI GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE AT +18" AFF U.O.N. WITHIN 6'-0" OF ALL SINKS
- EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF
- 4SD J-BOX FOR FIRE ALARM PULLSTATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- H 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- 100 CFM CEILING MOUNTED EXHAUST FAN
- 300 CFM CEILING MOUNTED EXHAUST FAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC ✓ FLS ✓ SS [signature]
DATE 05/06/2019

ELECTRICAL PANEL

VOLTS: 120/208 V	PANEL: "C"	FEED: REAR
MAIN: 100A	LOCATION: INTERIOR ACCESS	MOUNTING: FLUSH

LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	P	Circuit	Circuit	BREAKER Amps	P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES / GFI	4	720		20	1	1	2						
INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN	7		525	20	1	3	4						
INTERIOR/EXTERIOR LIGHTING/EXHAUST FAN	7	525		20	1	5	6						
CHASE LIGHT / RECEPTACLE (OPT C-1)	3		300	20	1	7	8						
DED - SOLAR READY						9	10						
DED - SOLAR READY						11	12	20	1		40		FIRE ALARM
A = 1225 WATTS / PHASE		1225	1225								40		B = 1265 WATTS / PHASE
TOTAL = 2490 WATTS		10.38 AMPS		120/208 VOLTS					1 Ø		3 WIRE		

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULE MODEL C-1 OR C-2

LICENSED ARCHITECT
C-33467
REN 01-31-2015
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
04 116558
ACS FLS SS
DATE JUL 27 2017

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS
DATE JUL - 8 2015

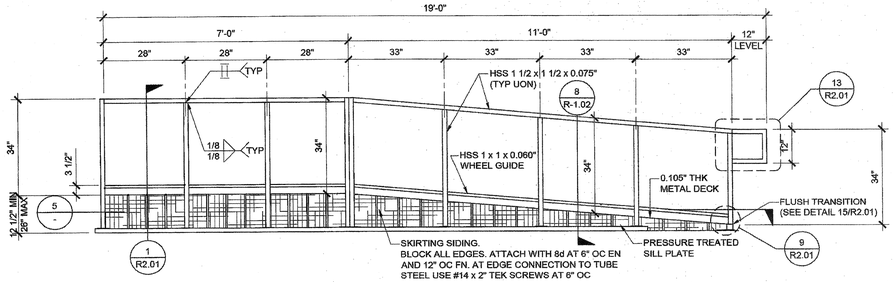
REVISIONS

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-16-2015

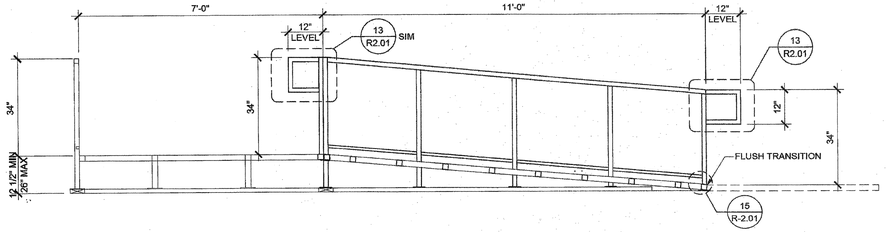
P.C. SHEET NUMBER

E-1.03



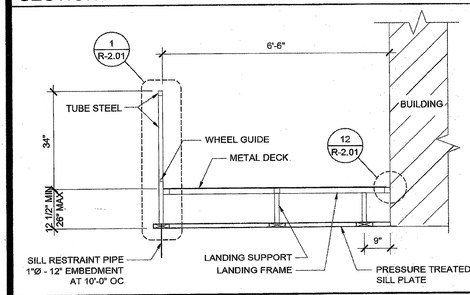
RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 4



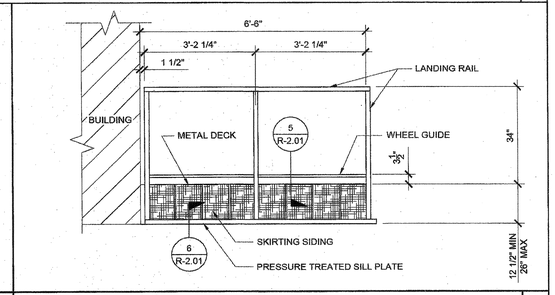
SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5



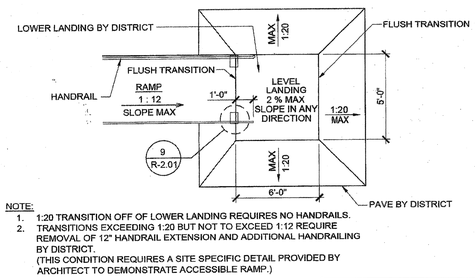
SECTION AT LANDING

SCALE : 1/2" = 1'-0" | 9



LANDING ELEVATION

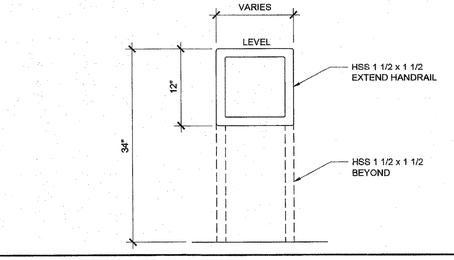
SCALE : 1/2" = 1'-0" | 6



NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT.
(THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

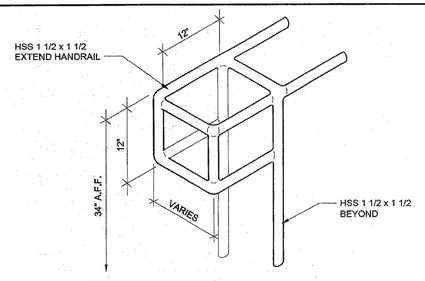
RAMP TRANSITION

SCALE: NTS | 10



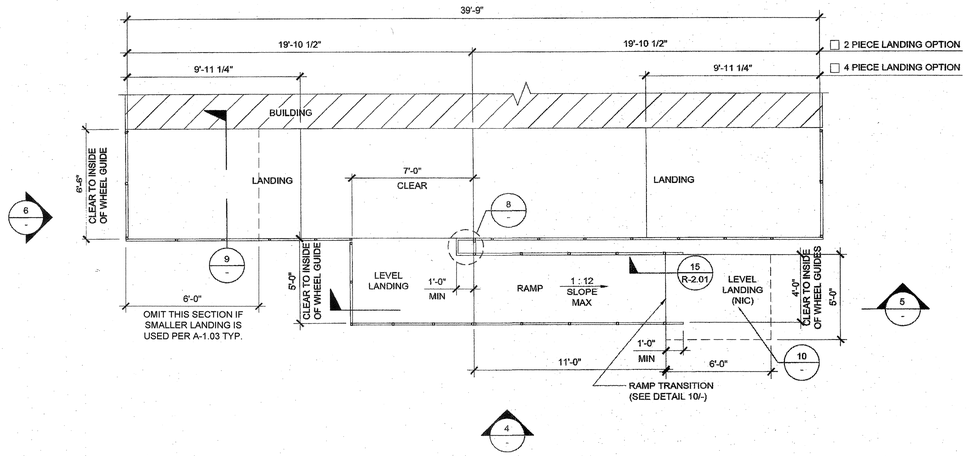
RETURN EXTEND HANDRAIL ELEVATION

SCALE : 1" = 1'-0" | 7



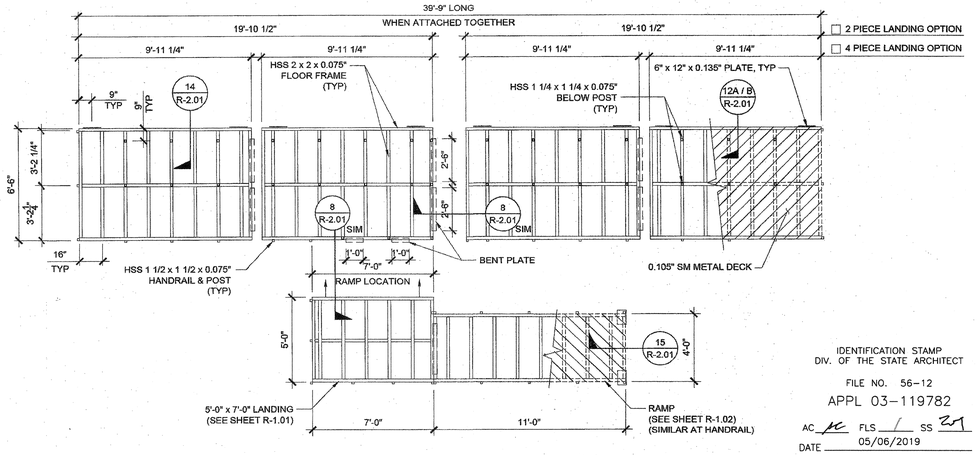
RETURN EXTEND HANDRAIL ISOMETRIC

SCALE : NTS | 8



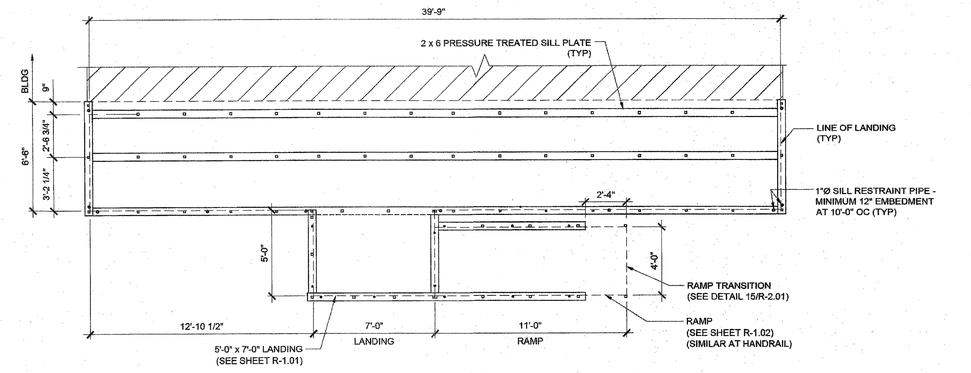
LANDING PLAN

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



LANDING FRAME

SCALE : 1/4" = 1'-0" | 2



SILL PLAN FOR RAMP AND LANDING

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC KC FLS / SS 2M
DATE 05/06/2019

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

RAMP LANDING

LICENSED ARCHITECT JAMES A. FRUIN III C-35467 REN 01-31-2015 STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
04 116817
AC KC FLS / SS 2M
DATE JUL 2 2 2017

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT ONLY. NOT A BUILDING PERMIT APPLICATION OR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 04-114135
AC KC FLS / SS RAF
DATE JUL - 8 2015

REVISIONS
1 REVISED L ANDING TO SHOW 4 PIECES 12/12/2012
2
3
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5
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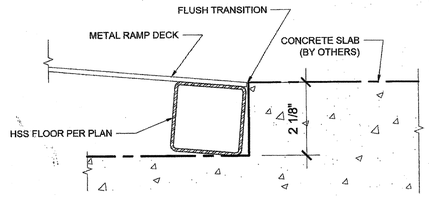
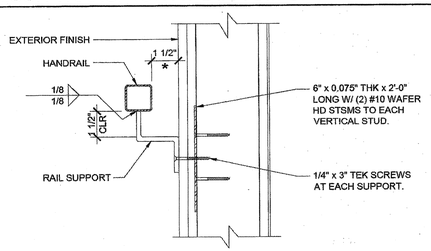
SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015

P.C. SHEET NUMBER
R-1.03



FLUSH TRANSITION AT BOTTOM OF RAMP SCALE : 6" = 1'-0" | 15

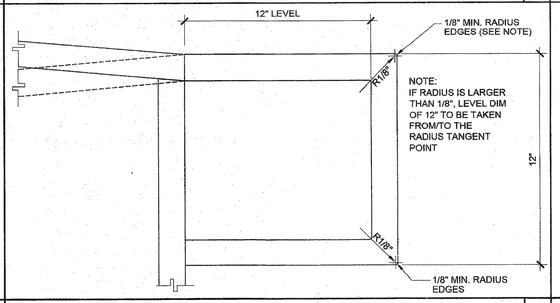


NOTE (*)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-405.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

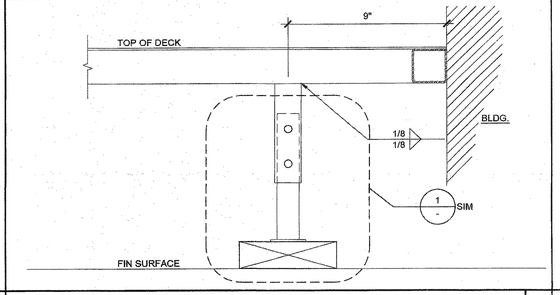
HANDRAIL CONNECTION AT SHEETMETAL BLKG SCALE : 3" = 1'-0" | 16

17

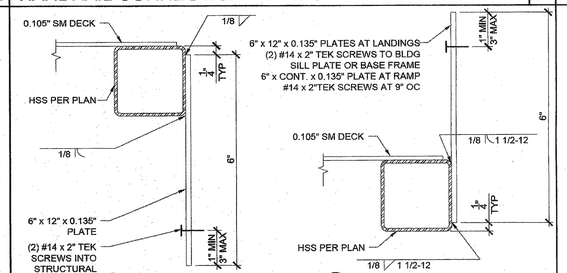
SECTION AT PLATE SCALE : 6" = 1'-0" | 12



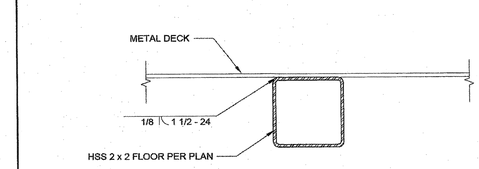
EXTEND HANDRAIL @ TOP OR BOTT. ENDS SCALE : 3" = 1'-0" | 13



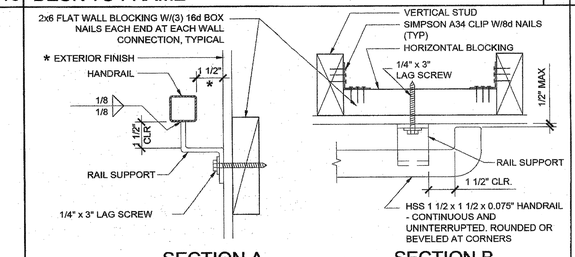
INTERIOR LANDING LEG SECTION SCALE : 3" = 1'-0" | 14



HANDRAIL CONNECTION AT WOOD BLOCKING SCALE : 3" = 1'-0" | 11



DECK TO FRAME SCALE : 6" = 1'-0" | 10

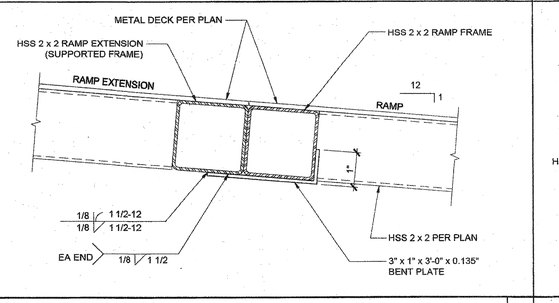


NOTE (*)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-405.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

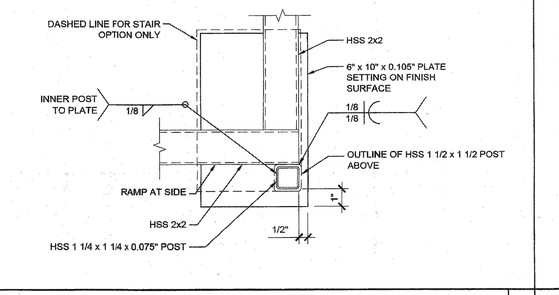
HANDRAIL CONNECTION AT SHEETMETAL BLKG SCALE : 3" = 1'-0" | 16

17

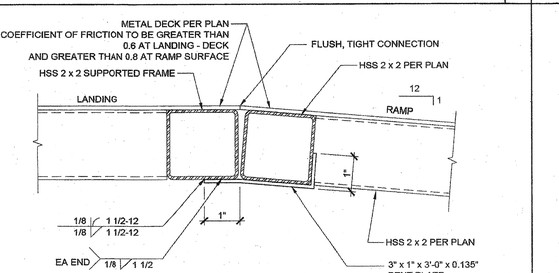
SECTION AT PLATE SCALE : 6" = 1'-0" | 12



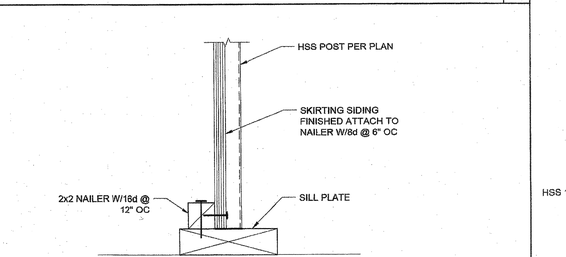
RAMP EXTENSION SCALE : 6" = 1'-0" | 8



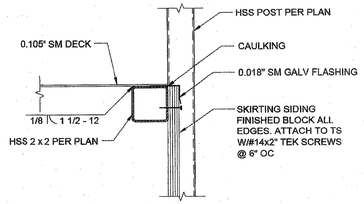
BASE PLATE AT RAMP TOE SCALE : 3" = 1'-0" | 9



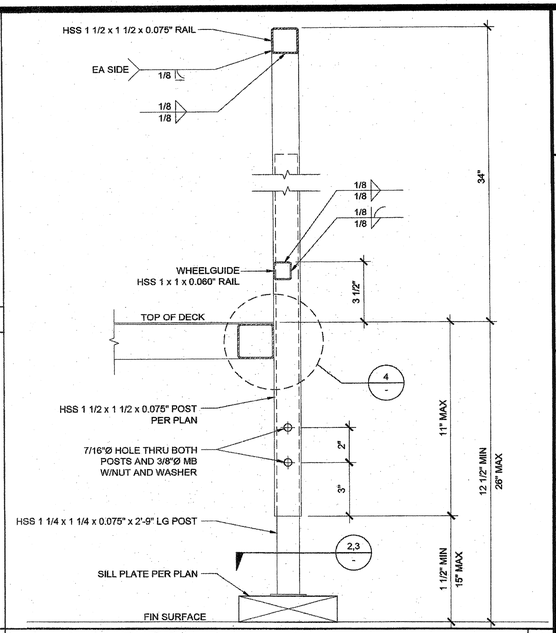
SKIRT FLASHING AT SILL PLATE SCALE : 3" = 1'-0" | 6



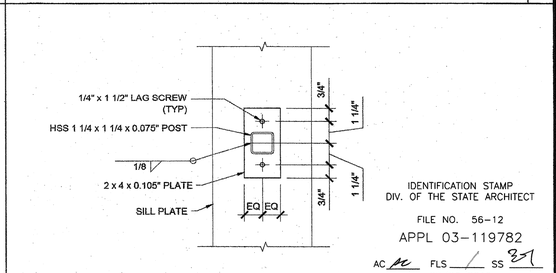
SKIRT FLASHING SCALE : 3" = 1'-0" | 5



SKIRT FLASHING SCALE : 3" = 1'-0" | 5

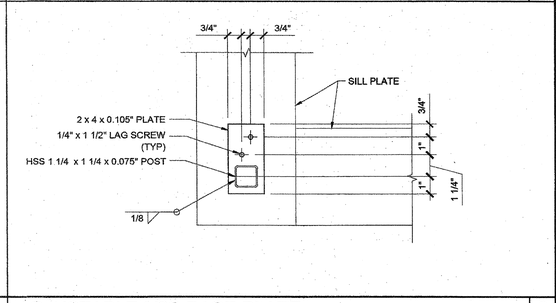


ADJUSTABLE LEG SCALE : 3" = 1'-0" | 1

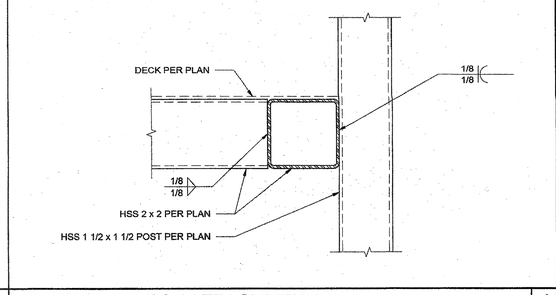


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
FILE NO. 56-12
APPL 03-119782
AC M FLS / SS 851
DATE 05/06/2019

ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" | 2



ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" | 3



ADJUSTABLE LEG BASE PLATE SCALE : 6" = 1'-0" | 4

SILVER CREEK INDUSTRIES, INC.
SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

RAMP DETAILS

LICENSED ARCHITECT JAMES SHIVERS III C-33467 REN 01-31-2015 STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 118617 AC 2 FLS SS DATE JUL 27 2017~~

ORIGINAL PC STATE AGENCY APPROVAL

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 04-114135
AC FLS SS RAF
DATE JUL - 8 2015

REVISIONS
1
2
3
4
5
6
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8

SILVER CREEK INDUSTRIES
12' x 40' PC (HIGH SEISMIC)

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-16-2015
P.C. SHEET NUMBER

R-2.01