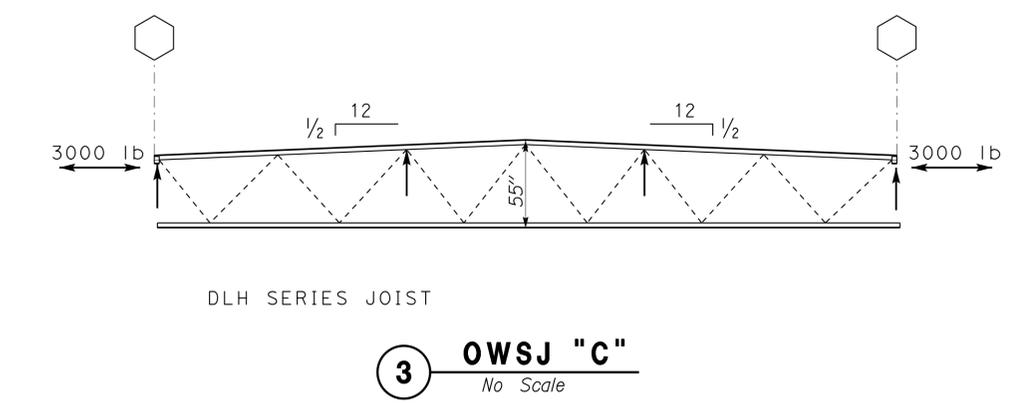
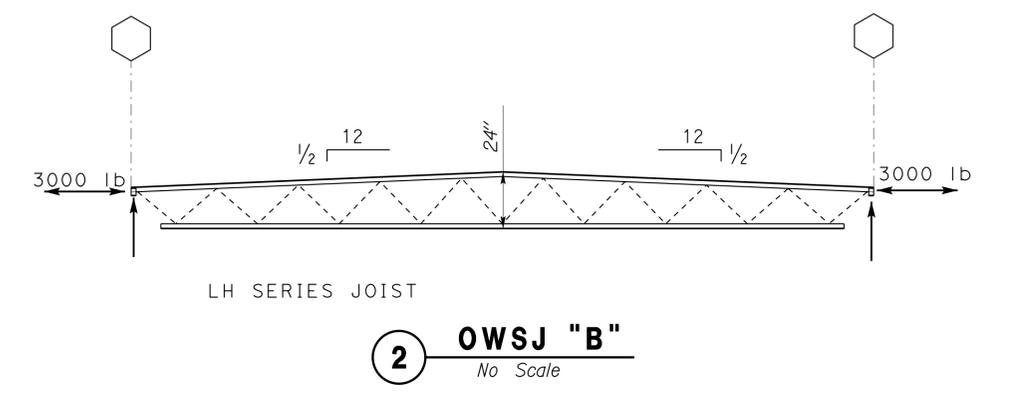
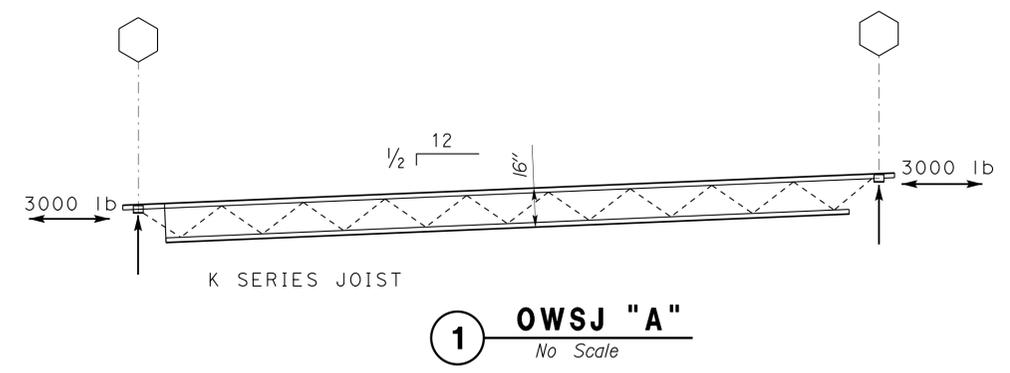


Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		201	371
				3-24-14	
				PLANS APPROVAL DATE	
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14



**A OWSJ DESIGN NOTES**

- LOADS: Dead Load Live Load  
 Uniform: 125 PLF 100 PLF  
 Concentrated Anywhere: 250 LB  
 Wind Uplift: 150 PLF  
 See ST1-4, ST1-5, ST1-6, and Mechanical Sheets for additional concentrated loads
- Deflection:  
 Live Load ----- L/360  
 Total Load ----- L/240
  - Camber Shall be 1.5 Times Dead Load Deflection
  - Open Web Steel Joist vender is responsible for design of proper bracing.
  -
- ↑ Denotes Point of Support  
 ↔ Denotes Seismic Load
- OWSJ Anchorage Seat as per Manufacturer

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE	SHEET ST-8
					POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 05-23-13 06-21-13 06-27-13	SHEET OF

**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2010 California Building Code

**LOADS**

**Seismic:** Occupancy category = II  
 Importance factor I = 1.0  
 Site soil class = E  
 $S_S = 1.5$                        $S_{DS} = 0.9$   
 $S_I = 0.6$                           $S_{DI} = 0.96$   
 Seismic design category = D  
 Seismic force-resisting system:

North - South

R = 7.00     $C_S = 0.1286$

East - West

R = 7.00     $C_S = 0.1286$

**Wind:** Importance factor = 1.0  
 Basic wind speed = 85 mph  
 Exposure D  
 Internal pressure coefficient  $GC_{pi} = \pm 0.55$

**Live load:** Roof = 20 psf  
 Loft = 125 psf  
 Metal Bar Grate = 10,000 lb capacity Lift Truck

**MATERIALS**

**Reinforced concrete:** (Ultimate strength design)  
 $f'_c = 3,600$  psi  
 $f_y = 60,000$  psi

**Structural steel:** (Allowable strength design)  
 Wide flange                       $F_y = 50$  ksi  
 Plates                                 $F_y = 36$  ksi  
 Hollow structural section (HSS)    $F_y = 46$  ksi  
 Weld electrode                       $F_y = 70$  ksi  
 Minimum fillet weld =  $\frac{3}{16}$ "

**Cold Formed Steel:** (Allowable strength design)  
 Thickness less than or equal to 43 mil     $F_y = 33$  ksi  
 Thickness greater than 43 mil               $F_y = 50$  ksi

**Foundation:**  
 Soils report dated : October 17, 2013  
 For soil classification, see "Log of Test Boring" sheets.

**WOOD STRUCTURAL PANEL NOTES**

- Wood Structural Panels shall conform to the Requirements for their Type in Voluntary Product Standard PS 1-07 or PS 2-04. Panels shall be Factory-Marked indicating Compliance with Grade Requirements. The Durability Classification shall be Exposure 1.
- Bearing, shear and exterior walls shall be sheathed with  $\frac{15}{32}$  Structural Plywood Panels, CDX, Exposure 1, with 32/16 Span Rating.
- All Exterior Wall Panels shall be installed with Strength Axis Placed Horizontally. All Panel Edges shall be Blocked.
- All roofs shall be sheathed with  $\frac{15}{32}$ " T&G Plywood Panels with 40/20 Span Rating unless otherwise noted on the plan sheets.
- Plywood for roofs shall be placed face grain perpendicular to supports. Where possible, plywood shall be placed in full sheets and staggered one-half sheet length. Any partial plywood sheet shall not be less than 2'-0" in length or width unless fully blocked.
- Panel Screws shall be #10 Modified Truss Screw with reamer point and a  $\frac{5}{16}$ " min Head Dia. Maximum Spacing shall be 6" at Panel Edges and 12" at Intermediate Supports. See Shear Wall Schedules for other Spacing Requirements.
- Prior to Installation, Panels shall be protected from Exposure to Weather and Moisture. Provide Air Circulation around Tarp-Covered Stacks..

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 INGRID P. CASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		202	371

*Brian T. Sutliff*  
 REGISTERED CIVIL ENGINEER      2-21-14 DATE

Brian T. Sutliff  
 No. 3862  
 Exp. 3-31-16  
 REGISTERED PROFESSIONAL ENGINEER  
 STRUCTURAL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

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**COLD FORMED STEEL FRAMING NOTES**

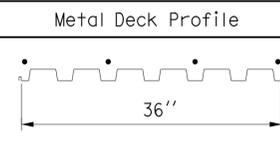
LOCATION	ITEM	SECTION
Exterior Stud Wall	Wall Stud	800S200-54
	Top Plate	800T200-54
	Sill Plate	800T200-54
	Blocking	800T200-54
Interior Stud Wall	Boundary Member	800S200-68
	Wall Stud	600S200-43
	Top Plate	600T200-43
	Sill Plate	600T200-43
	Blocking	600T200-43

- Section designations shall conform to the AISI Standard for Cold-Formed Steel Framing-General Provisions
- Framing screws shall be #12 Modified Truss Self-Drilling, Self-Tapping Screws with a Min Head Dia of  $\frac{5}{16}$ ".
- Penetration of Screws through joined Materials shall not be Less than 3 Exposed Threads. Screws shall be installed and tightened in accordance with Screw Manufacturer's instructions.
- All screws to be ICC approved, subject to approval by the Engineer.
- All sections except Studs shall be unpunched.
- See individual structures for Cold-Formed Steel Section and Hold-Down Requirements.
- Exterior and Interior Stud Walls shall be spaced at 16" OC
- Deflection track shall be 54 mil and accommodate 1" deflection

**METAL DECK MINIMUM SECTION PROPERTIES**

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Metal Decking Roof	1.5" x 18 Ga	0.313 in <sup>4</sup> /ft	0.316 in <sup>3</sup> /ft	0.329 in <sup>3</sup> /ft	38 Ksi

**SCREW SCHEDULE AND METAL DECK PROFILE**

Metal Deck Profile	Self-Drilling Self-Tapping Screws			Minimum Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	4 - #12 per support	#12 @ 12" OC	#12 @ 12" OC	798 lb/ft

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF
QUANTITIES BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

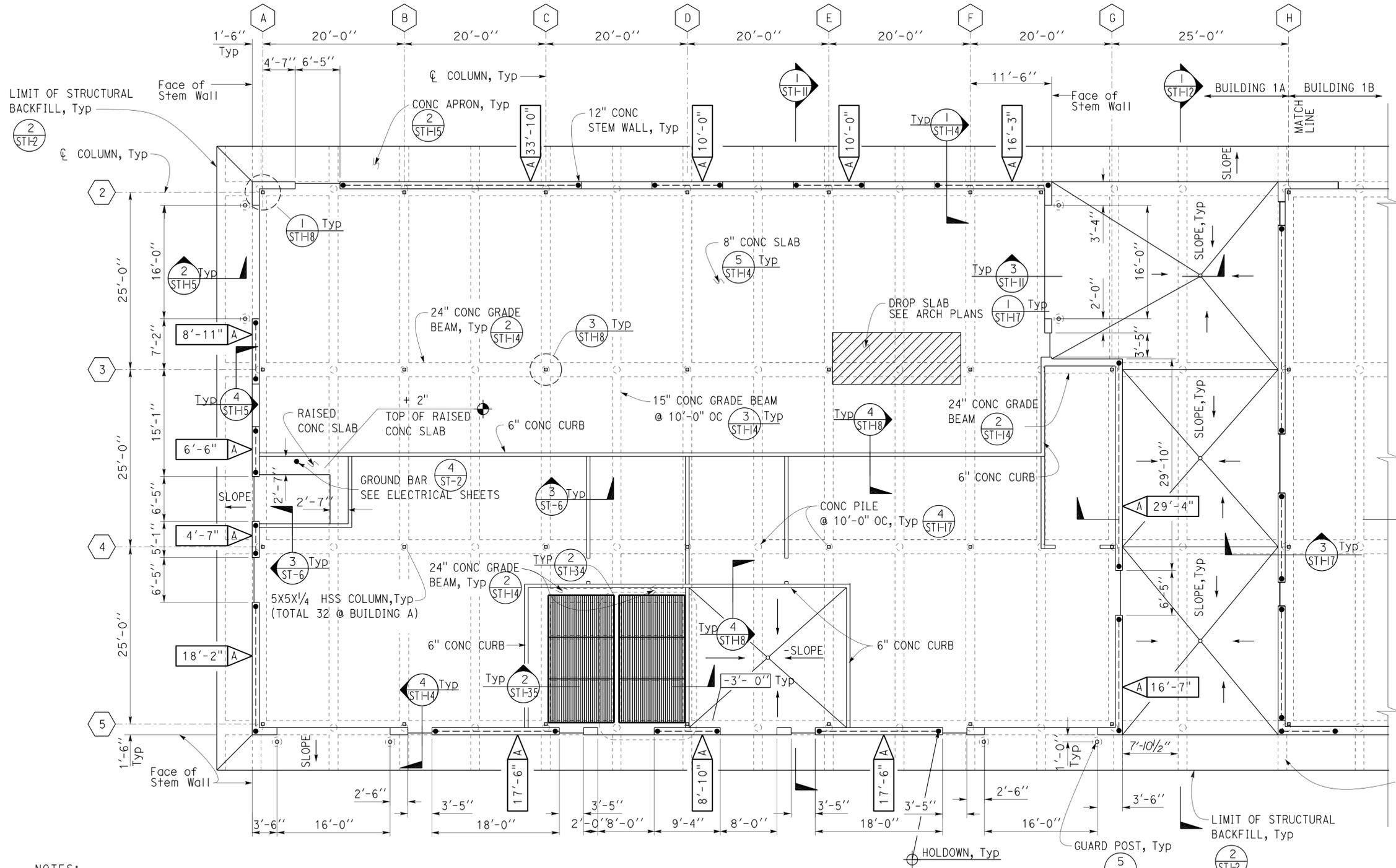
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 33M5785  
 POST MILE

SFOBB WAREHOUSE

DESIGN CRITERIA AND DETAIL NOTES

SHEET ST1-0



**A SHEARWALL TABLE**

Shear Wall	Screw Schedule		Holddown
	Boundary and Edge Screw	Field Screw	
<b>A</b>	PANEL SCREWS @ 4	PANEL SCREWS @ 12	S/HD15B ST/ADG15

- Shearwall Table Notes:
- Anchor Bolts shall be 5/8" Ø with embedment per pla, spaced @ 48" OC.
  - Holddown Bolts shall be 1" Ø with 24" embedment in Concrete measured from top of stem wall at locations shown unless otherwise noted on the plan sheets.
  - For Panel Screw notes see **ST-0**

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 Reviewed by: *David P. Casiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

- NOTES:
- PROVIDE BLOCKOUTS AT HSS COLUMN LOCATIONS **ST-16**
  - FOR PILE LAYOUT SEE BUILDING PILE SHEETS.



Elevation 10.8 = Datum 0'-0"  
**1 FOUNDATION PLAN**  
 Scale 1/8" = 1' - 0"



**KEY PLAN**

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04	Ala	5785		204	371

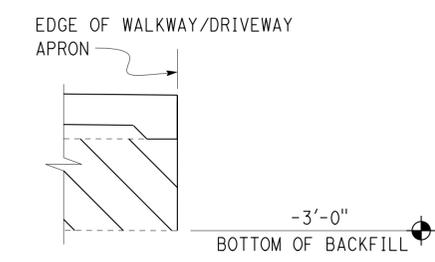
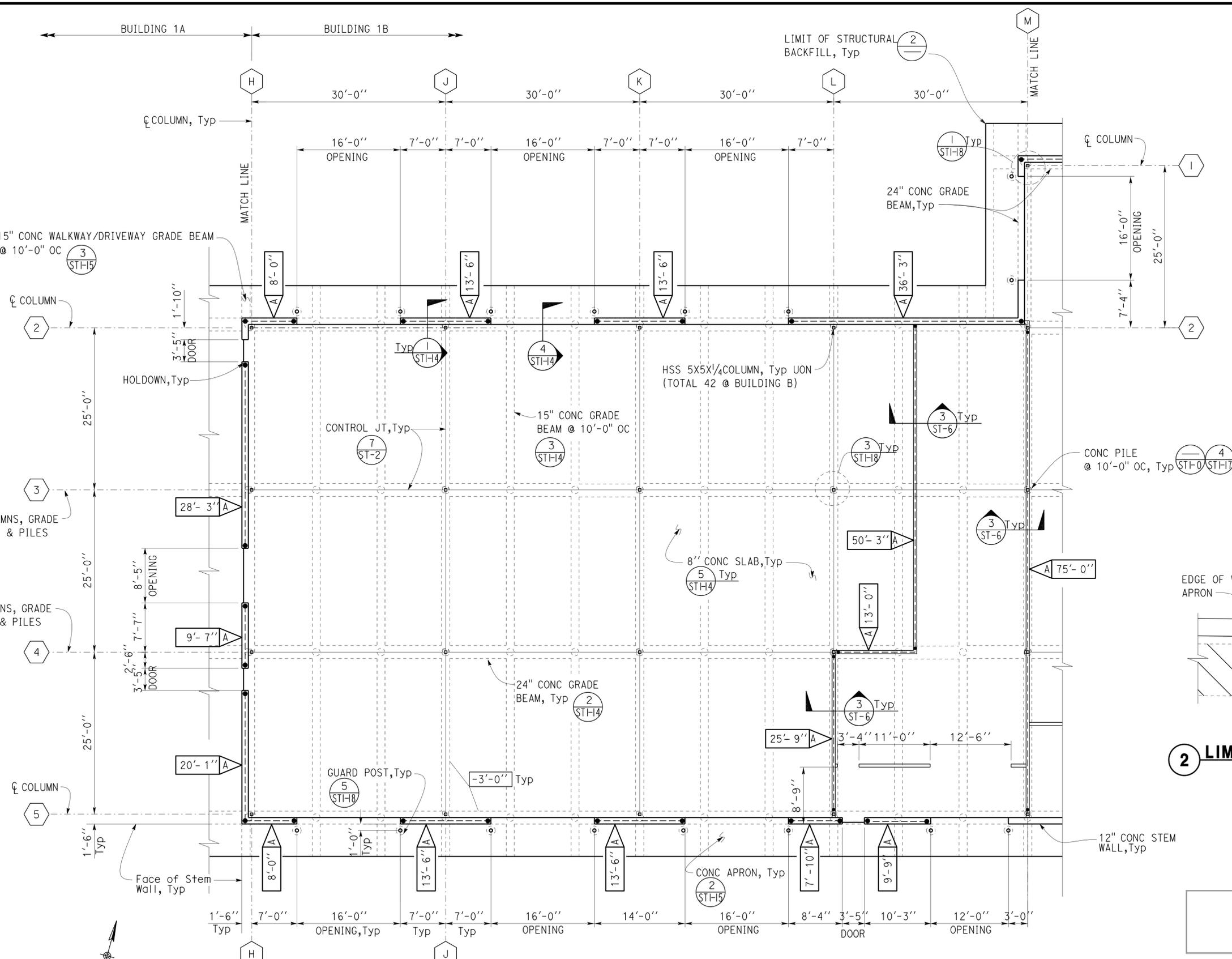
Brian T. Sutliff  
 REGISTERED CIVIL ENGINEER  
 DATE 2-21-14

Brian T. Sutliff  
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 STRUCTURAL  
 STATE OF CALIFORNIA

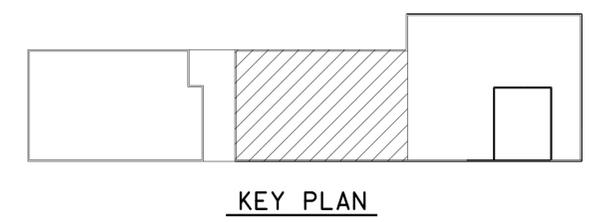
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 INGRID P. CASIANO  
 Approval date: 02-11-14



**2 LIMITS OF STRUCTURE BACKFILL**  
 Scale 1/2" = 1' - 0"



**1 FOUNDATION PLAN**  
 Scale 1/8" = 1' - 0"

NOTE: PROVIDE BLOCKOUTS AT HSS COLUMN LOCATIONS

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> FOUNDATION PLAN NO. 2	SHEET 11 OF 12
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF			POST MILE		BUILDING 1B
QUANTITIES BY	CHECKED			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		205	371

<i>Brian T. Sutliff</i>		2-21-14
REGISTERED CIVIL ENGINEER	DATE	

3-24-14
PLANS APPROVAL DATE

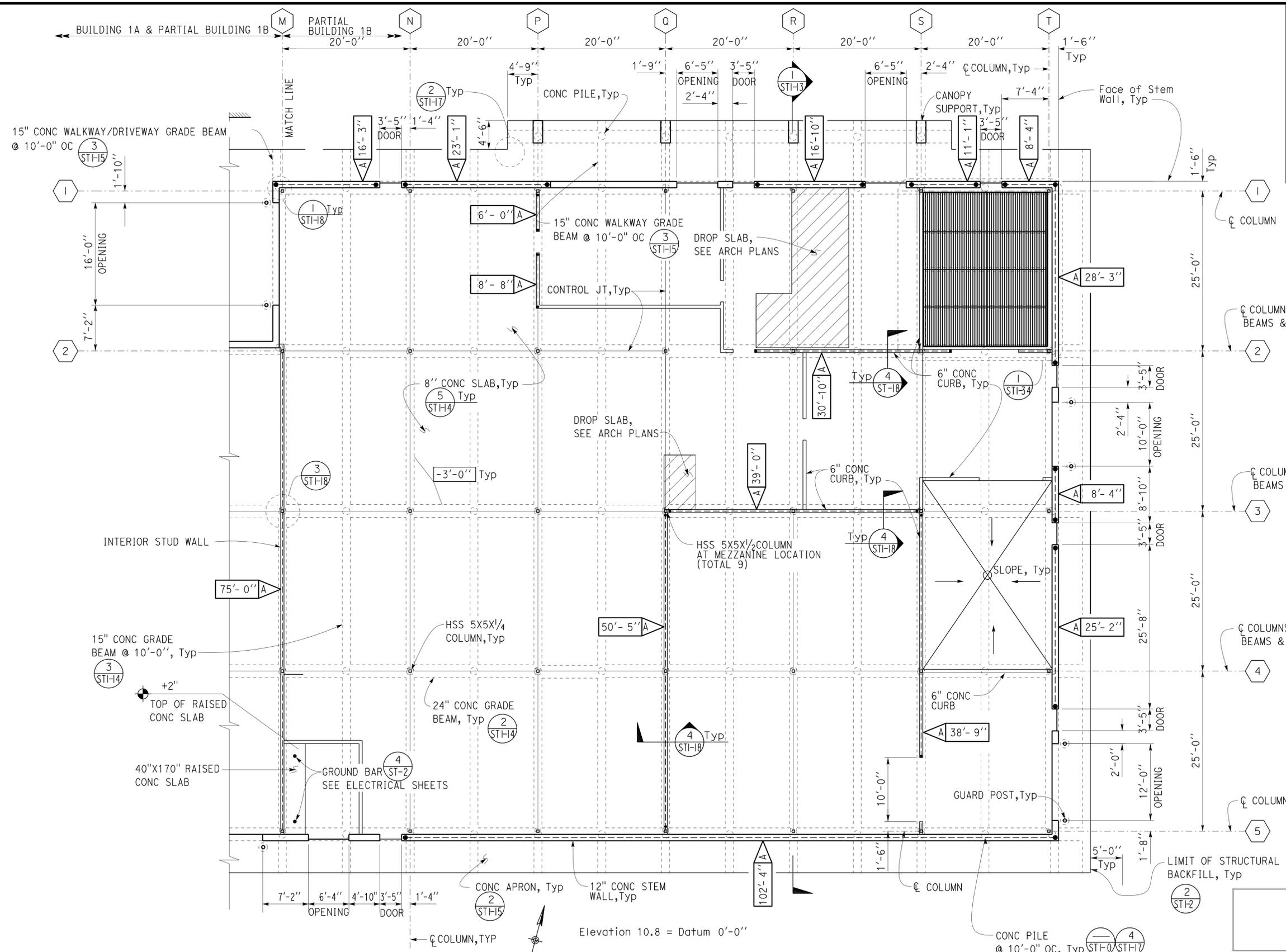
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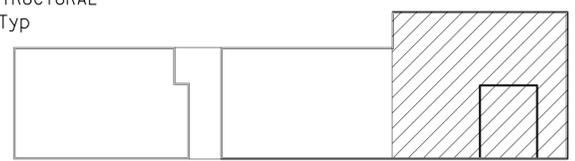
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Reviewed by: *Ingrid P. Castano*  
INGRID P. CASTANO  
Approval date: 02-11-14



**1 FOUNDATION PLAN**  
Scale 1/8" = 1' - 0"



**KEY PLAN**

NOTE: PROVIDE BLOCKOUTS AT HSS COLUMN LOCATIONS (3) STH-6

DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF
DETAILS	BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 33M5785  
POST MILE

<b>SFOBB WAREHOUSE</b>		SHEET <b>ST1-3</b>
BUILDING 1B	FOUNDATION PLAN NO. 3	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3599 CONTRACT No.: 000001  
PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	05-17-13 06-07-13 06-13-13 07-08-13 07-17-13 10-14-13 10-24-14	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		206	371

*Brian T. Sutliff*  
REGISTERED CIVIL ENGINEER

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DATE

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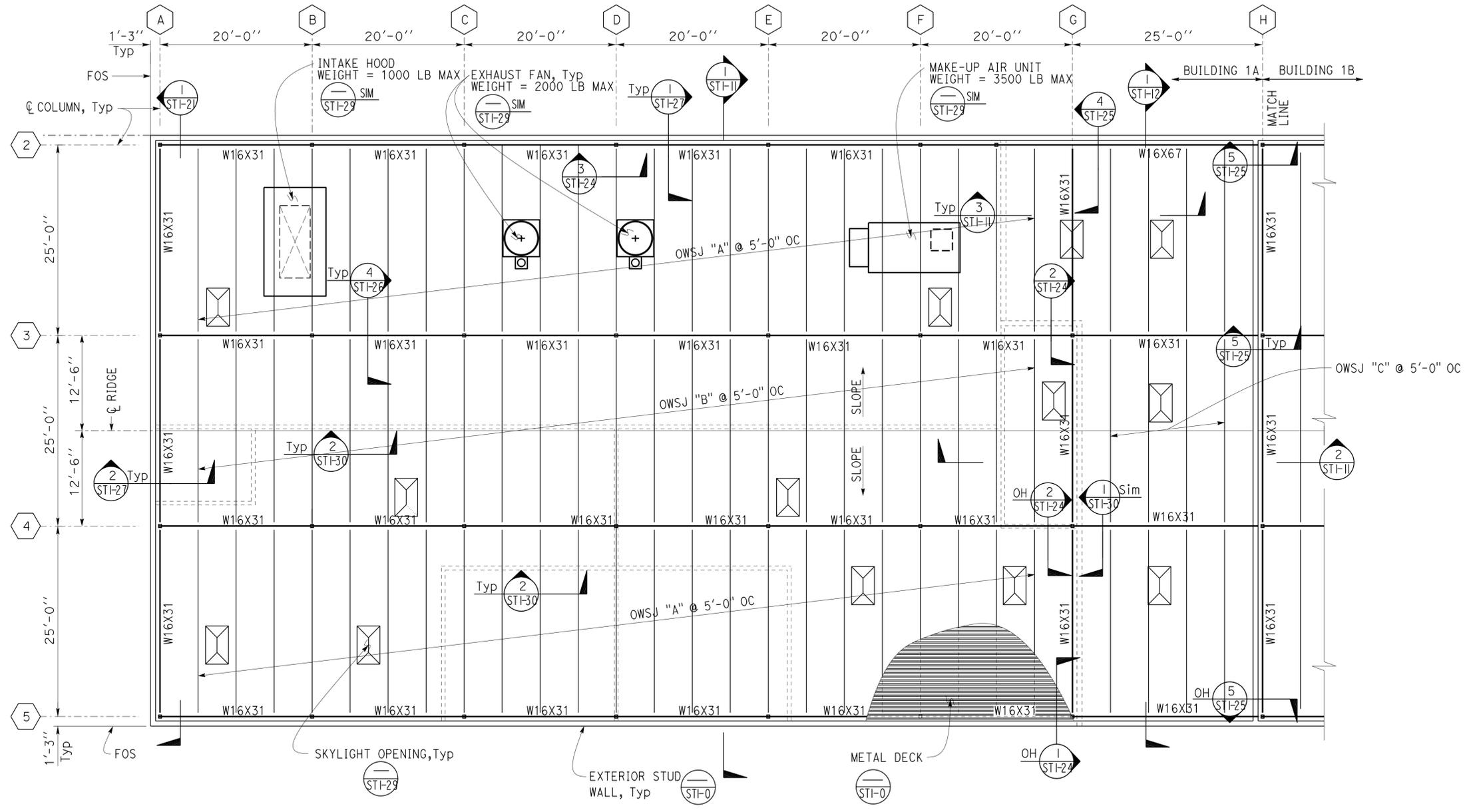
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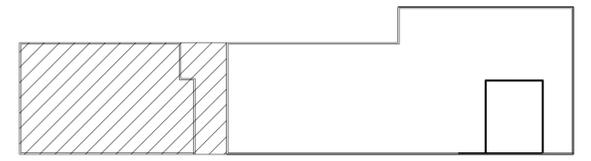
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INGRID P. ICASIANO  
Approval date: 02-11-14



**1 ROOF FRAMING PLAN**  
Scale 1/8" = 1' - 0"



**KEY PLAN**

DESIGN BY JUSTIN UYEHARA DETAILS BY PETE VON SAVOYE QUANTITIES BY	CHECKED BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>		SHEET <b>ST1-4</b>
	CHECKED BRIAN SUTLIFF			POST MILE	BUILDING 1A	ROOF FRAMING PLAN NO. 1	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13			D:\CADDuser\Projects\Dist_04\SFOBB_maintenance\combined\stf_04-18-13\expd\stf_04.dgn		06-24-13 07-09-13 07-17-13 05-02-13 05-09-13 05-28-13 06-04-13 06-11-13 06-14-13		

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04	Ala	5785		207	371

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3-24-14  
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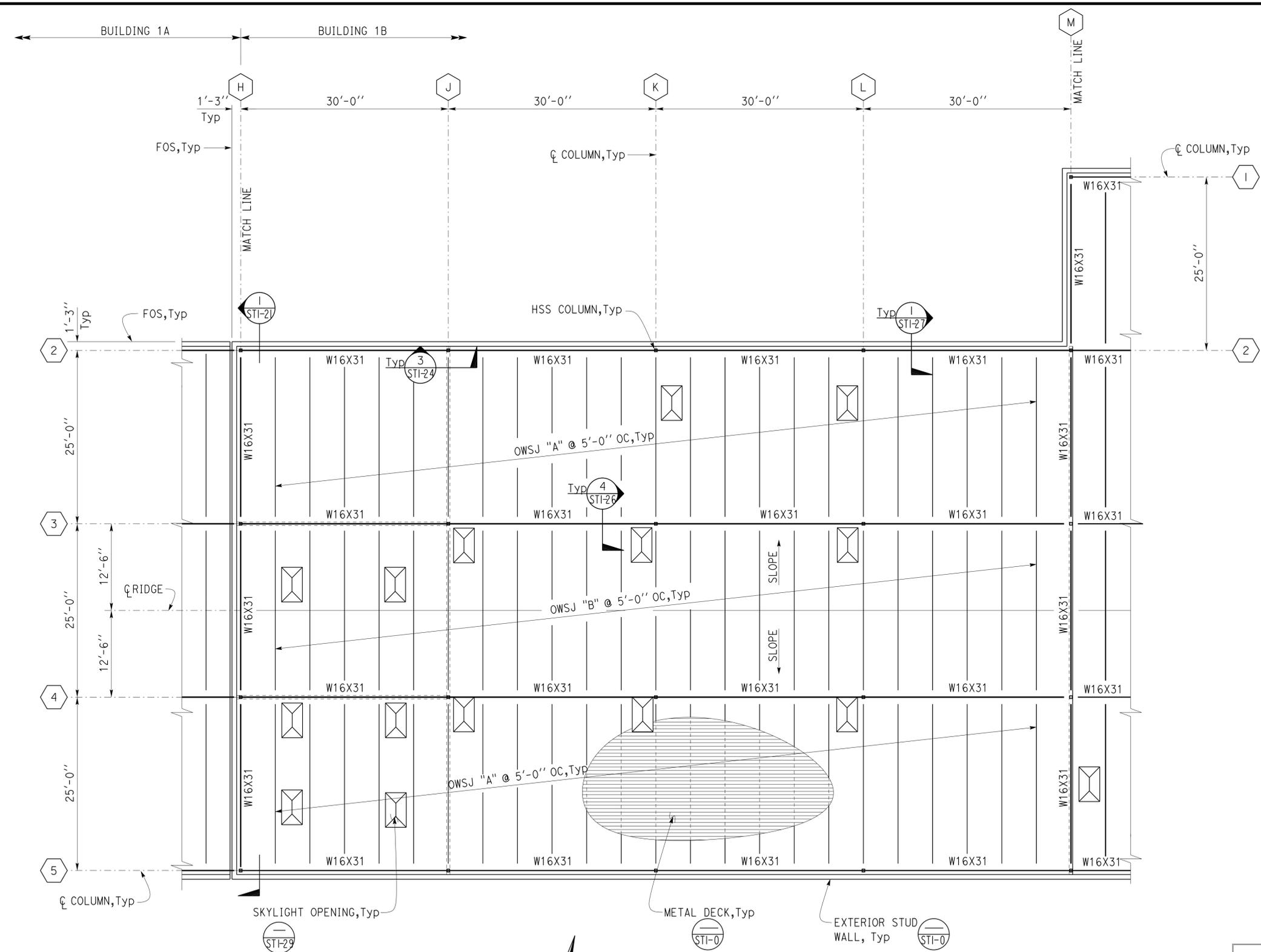
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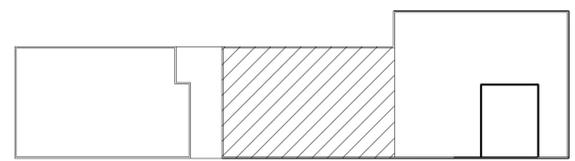
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**1 ROOF FRAMING PLAN**  
Scale 1/8" = 1' - 0"



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	CHECKED BRIAN SUTLIFF			POST MILE	BUILDING 1B	ROOF FRAMING PLAN NO. 2	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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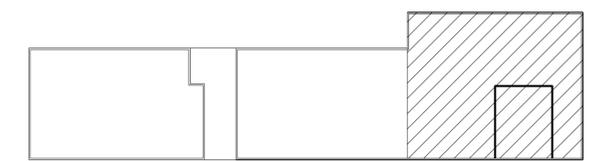
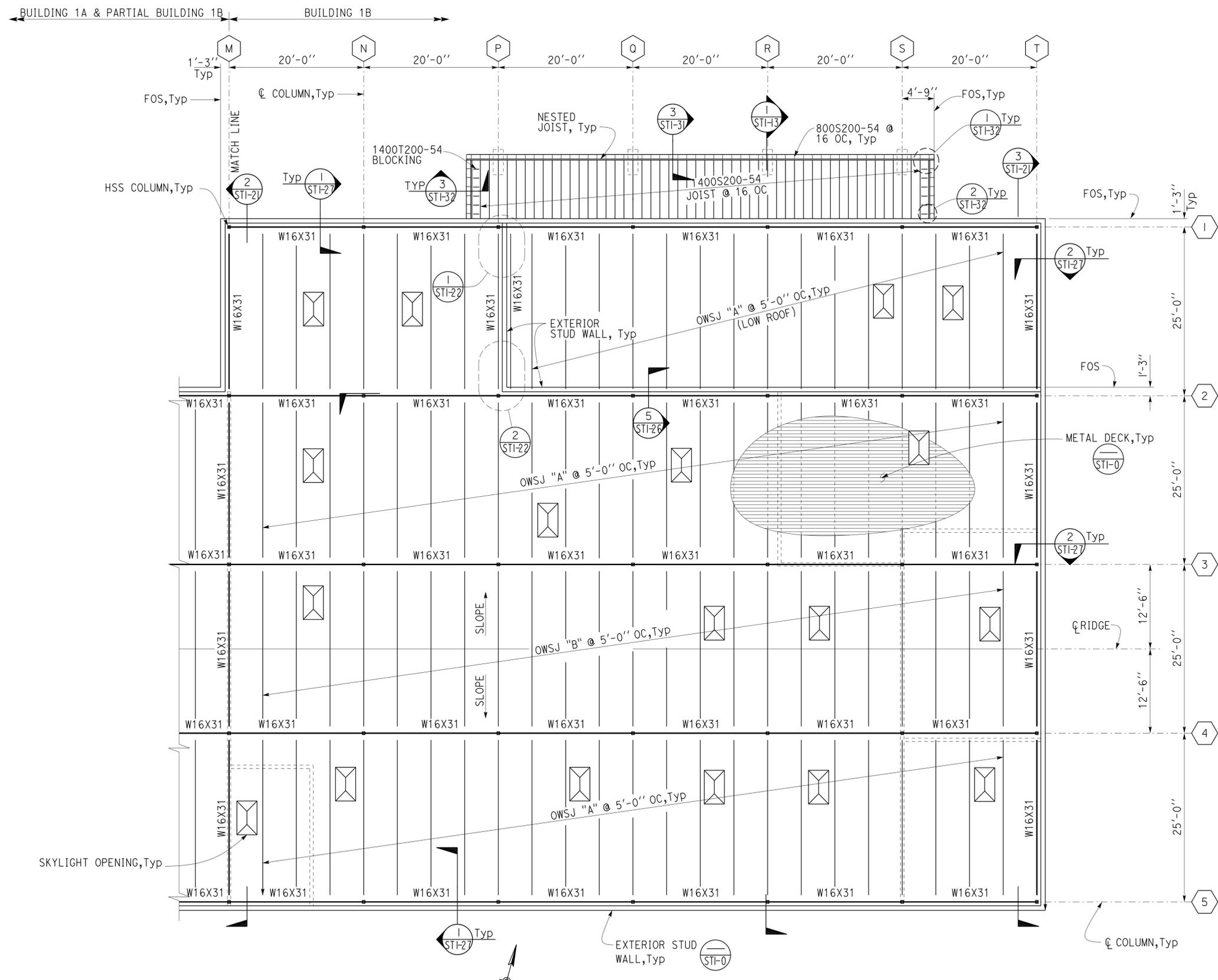
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					POST MILE	BUILDING 1B	ROOF FRAMING PLAN NO. 3	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 05-28-13 06-04-13 06-11-13 06-14-13 07-02-13 07-17-13 07-22-13 07-26-13	SHEET OF

TAEWW Imperial - CCSC Rev. 01/13  
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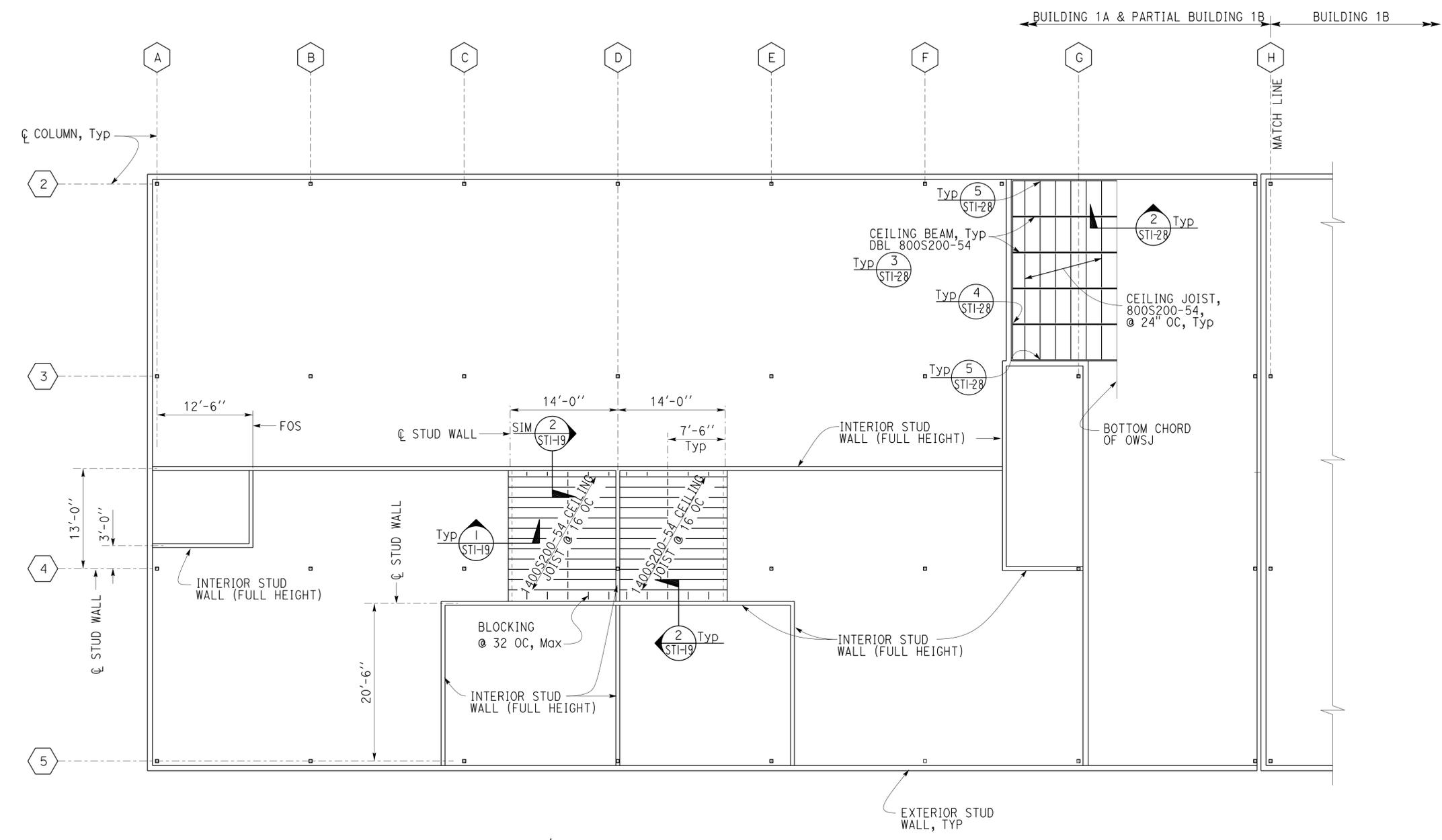
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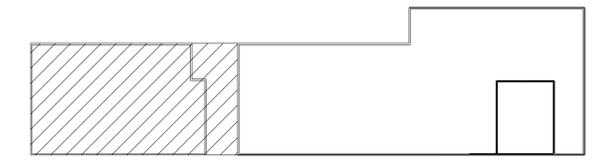


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 INGRID P. CASIANO  
 Approval date: 02-11-14



**1 CEILING FRAMING PLAN**  
 Scale 1/8" = 1' - 0"



**KEY PLAN**

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET ST1-7
					POST MILE	BUILDING 1A	CEILING FRAMING PLAN NO. 1	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial - CCSC Rev. 01/13			D:\CADDUser\Projects\Dist_04\SFOBB_maintenance\combined\st_04-18-13\expd\fe\st1_07.dgn		05-13-13 06-04-13 06-11-13 06-14-13 07-18-13 07-22-13			

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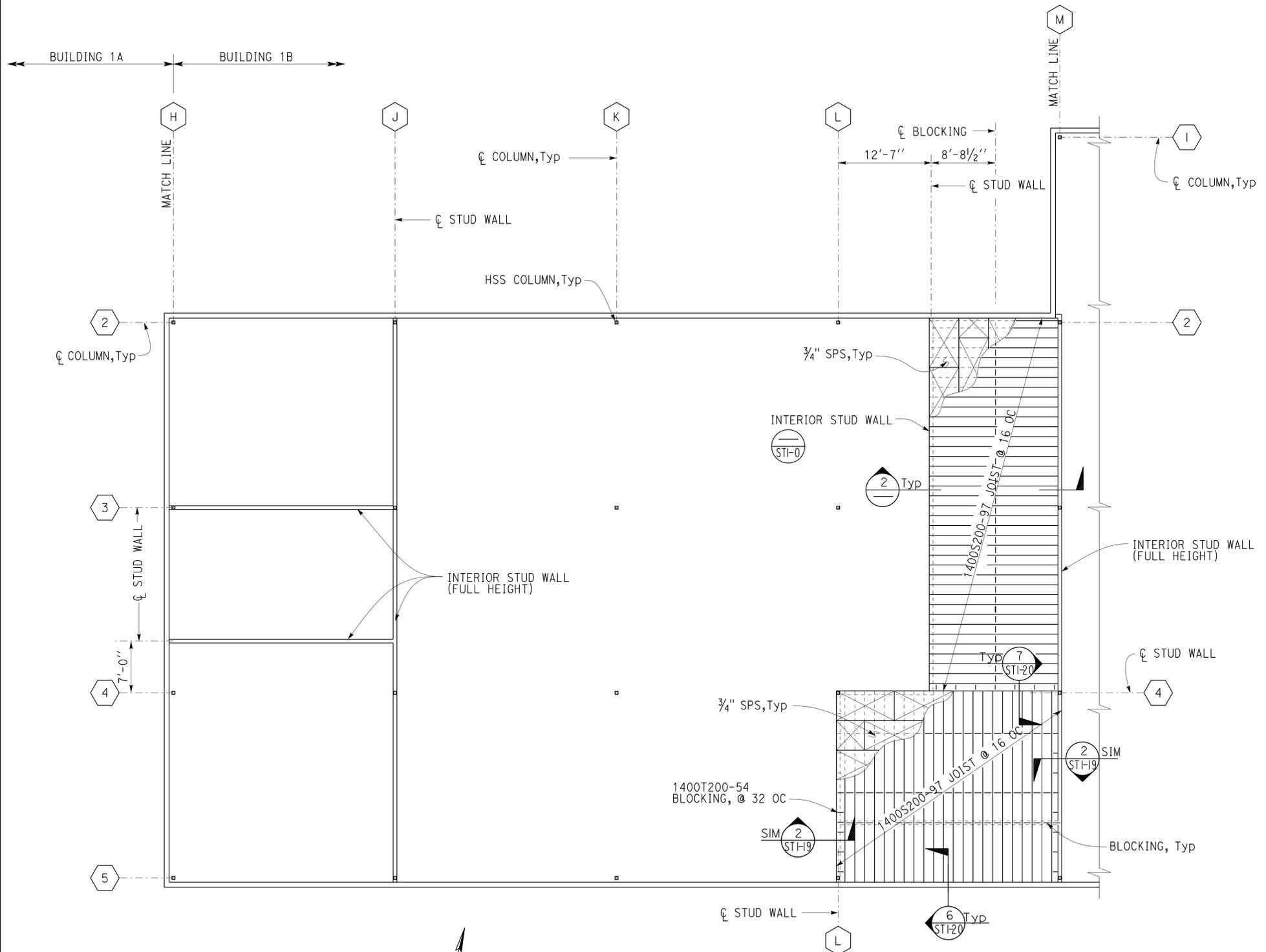
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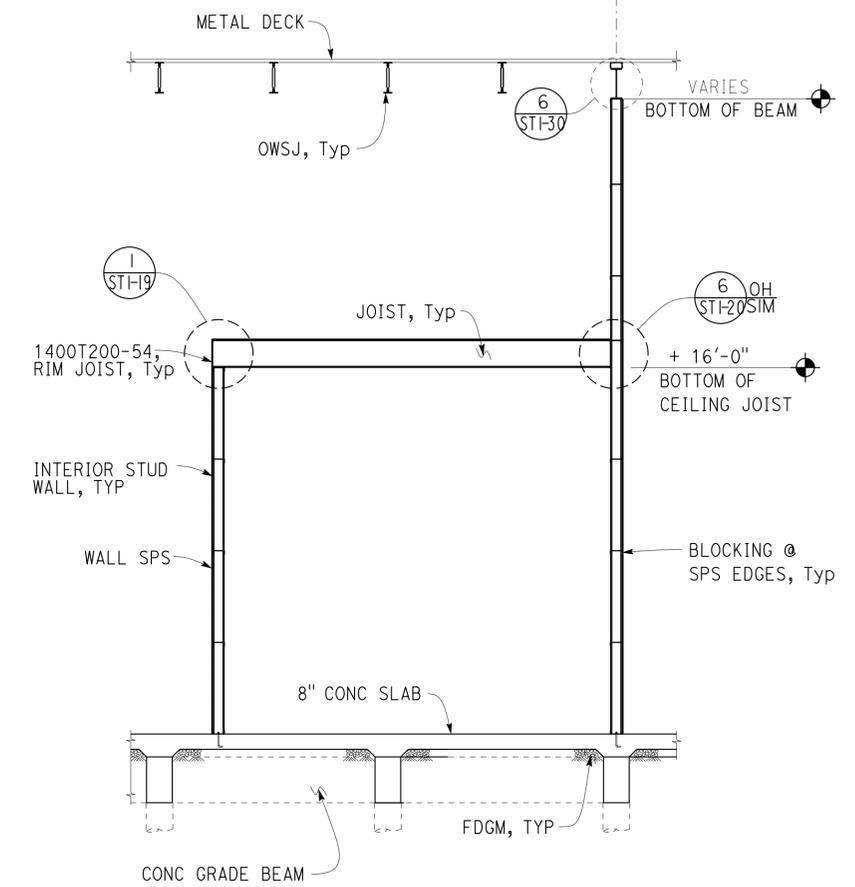
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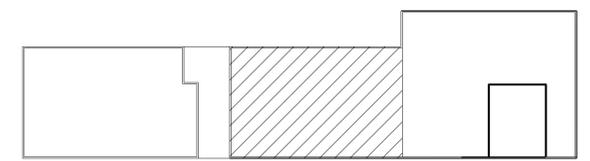
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**1 CEILING FRAMING PLAN**  
Scale 1/8" = 1' - 0"



**2 CEILING FRAMING SECTION**  
Scale 1/4" = 1' - 0"



**KEY PLAN**

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET ST1-8
				33M5785	BUILDING 1B	CEILING FRAMING PLAN NO. 2	
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY	CHECKED				05-13-13 06-04-13 06-11-13 06-14-13 07-25-13		

TAEMWW Imperial - CCSC Rev. 01/13

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		211	371

<i>Brian T. Sutliff</i>		2-21-14
REGISTERED CIVIL ENGINEER	DATE	

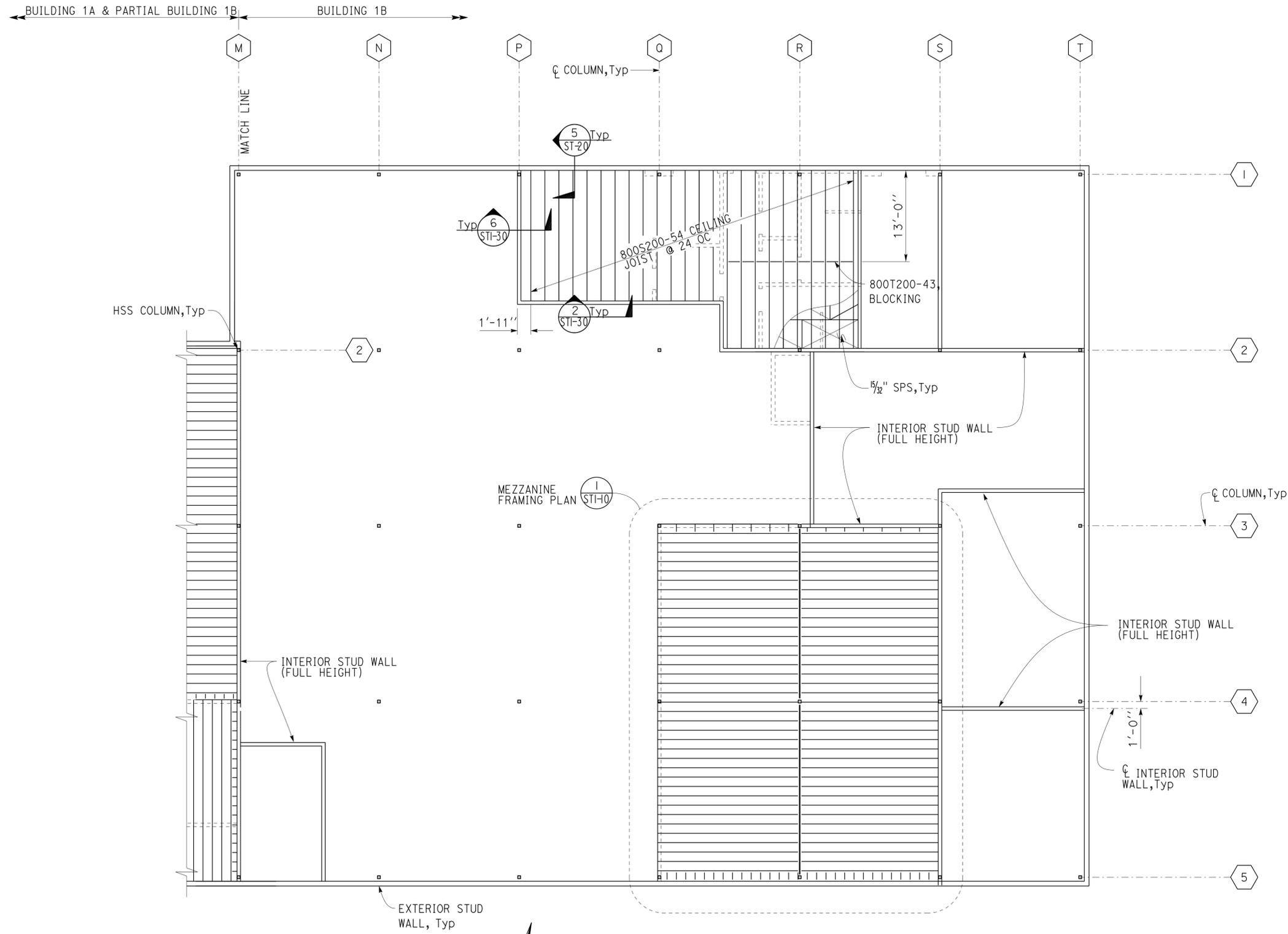
  

3-24-14	
PLANS APPROVAL DATE	

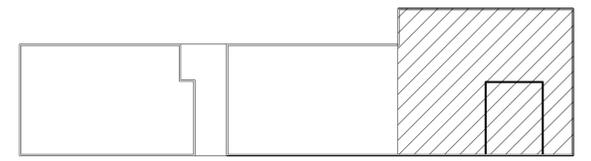
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14



**1 CEILING FRAMING PLAN**  
Scale 1/8" = 1' - 0"



**KEY PLAN**

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> BUILDING 1B <b>CEILING FRAMING PLAN NO. 3</b>	SHEET
					POST MILE		OF
					UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 05-13-13 06-04-13 06-11-13 06-14-13 06-17-13 07-22-13 07-28-13 10-14-13

TAEMWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331 DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 05-13-13 06-04-13 06-11-13 06-14-13 06-17-13 07-22-13 07-28-13 10-14-13 SHEET OF 30-APR-2014 10:22 D:\CADDuser\Projects\Dist\_04\SFOBB\_maintenance\combined\stf\04-18-13\expd\stf1\_09.dgn

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		212	371

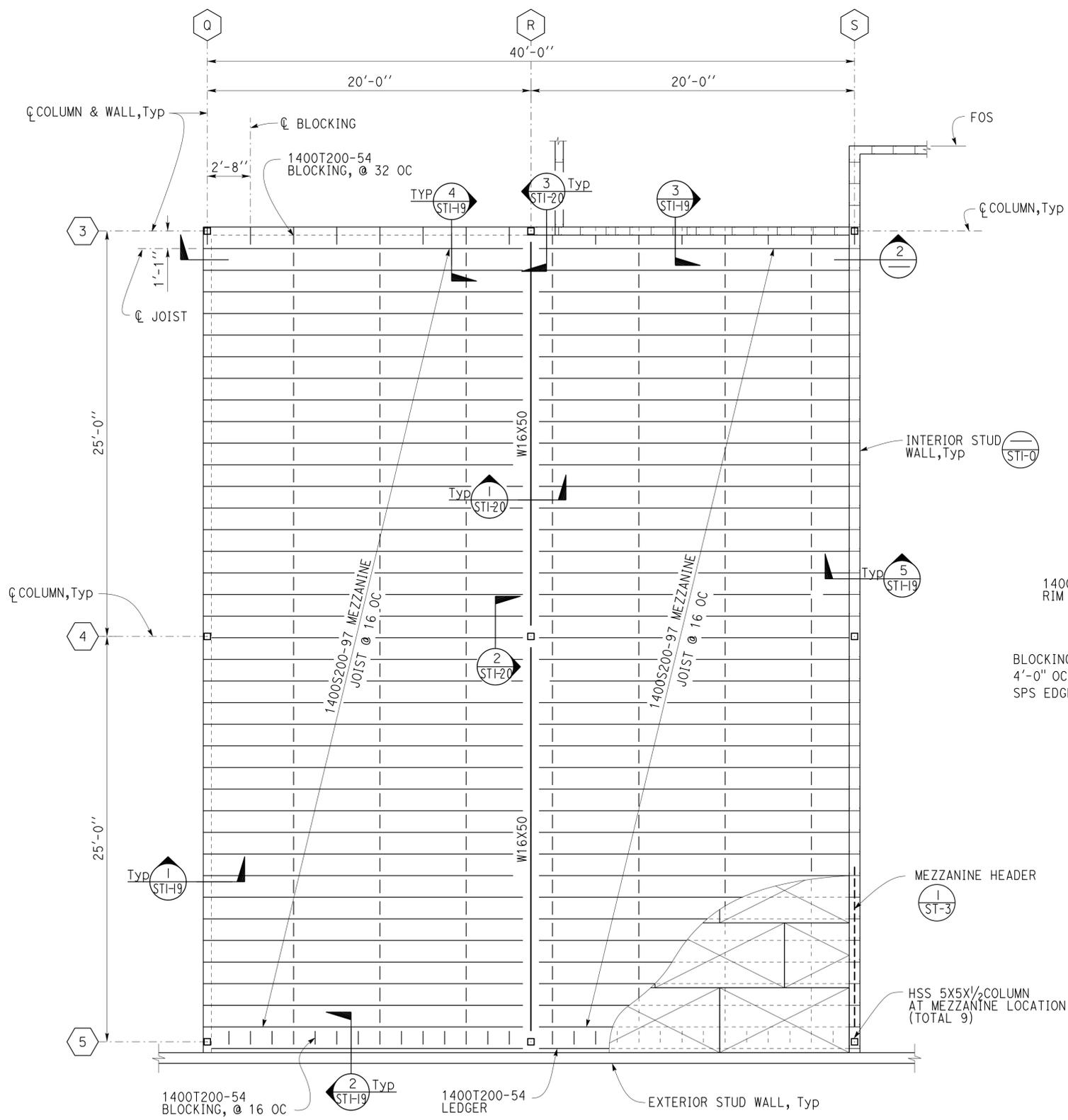
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-21-14 DATE
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Brian T. Sutliff REGISTERED CIVIL ENGINEER		3-24-14 PLANS APPROVAL DATE
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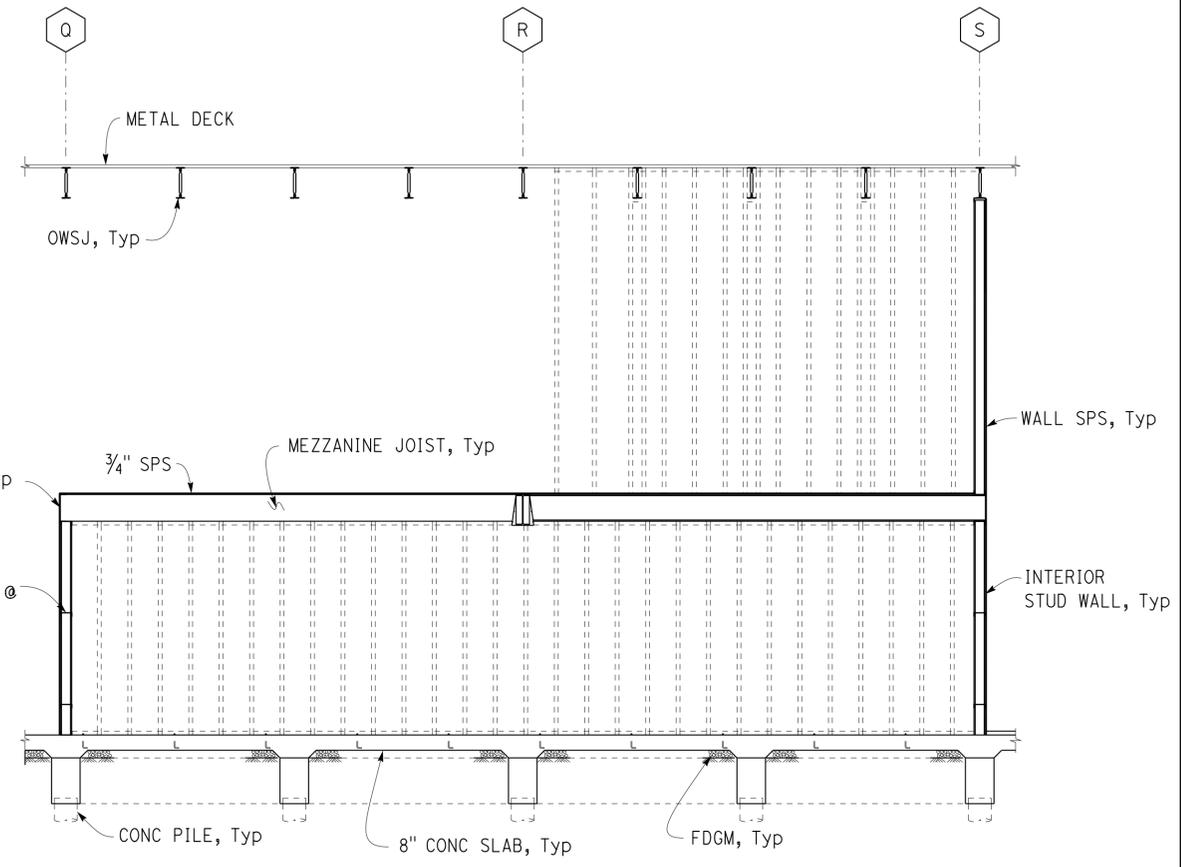
  

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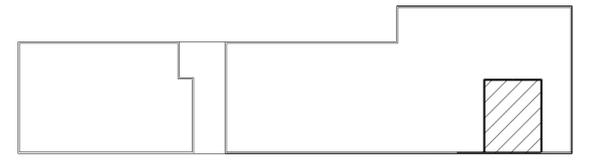


**1 MEZZANINE FRAMING PLAN**  
 Scale 1/4" = 1' - 0"

NOTE: WALL STUDS TO BE PLACED DIRECTLY BELOW MEZZANINE JOISTS



**2 MEZZANINE SECTION**  
 Scale 1/4" = 1' - 0"



KEY PLAN

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET OF ST1-10
				33M5785	BUILDING 1B	MEZZANINE FRAMING PLAN NO. 1	
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	UNIT: 3599 CONTRACT No.: 000001		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY	CHECKED	PROJECT NUMBER & PHASE: 04130001331		05-18-13 06-11-13 07-16-13 07-22-13		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		213	371

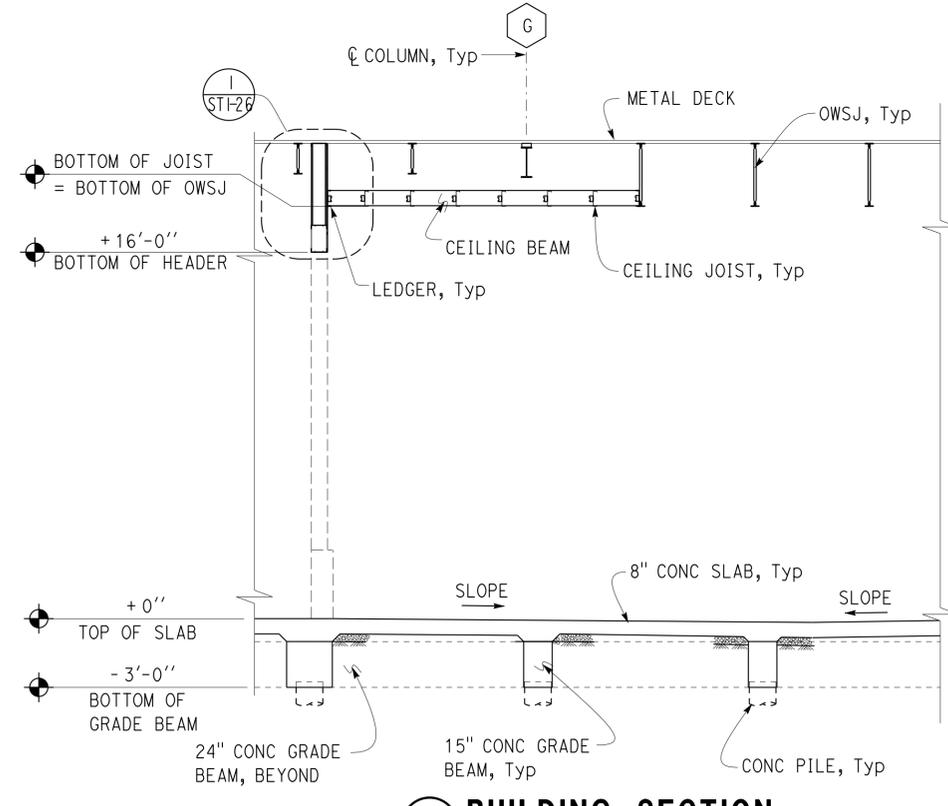
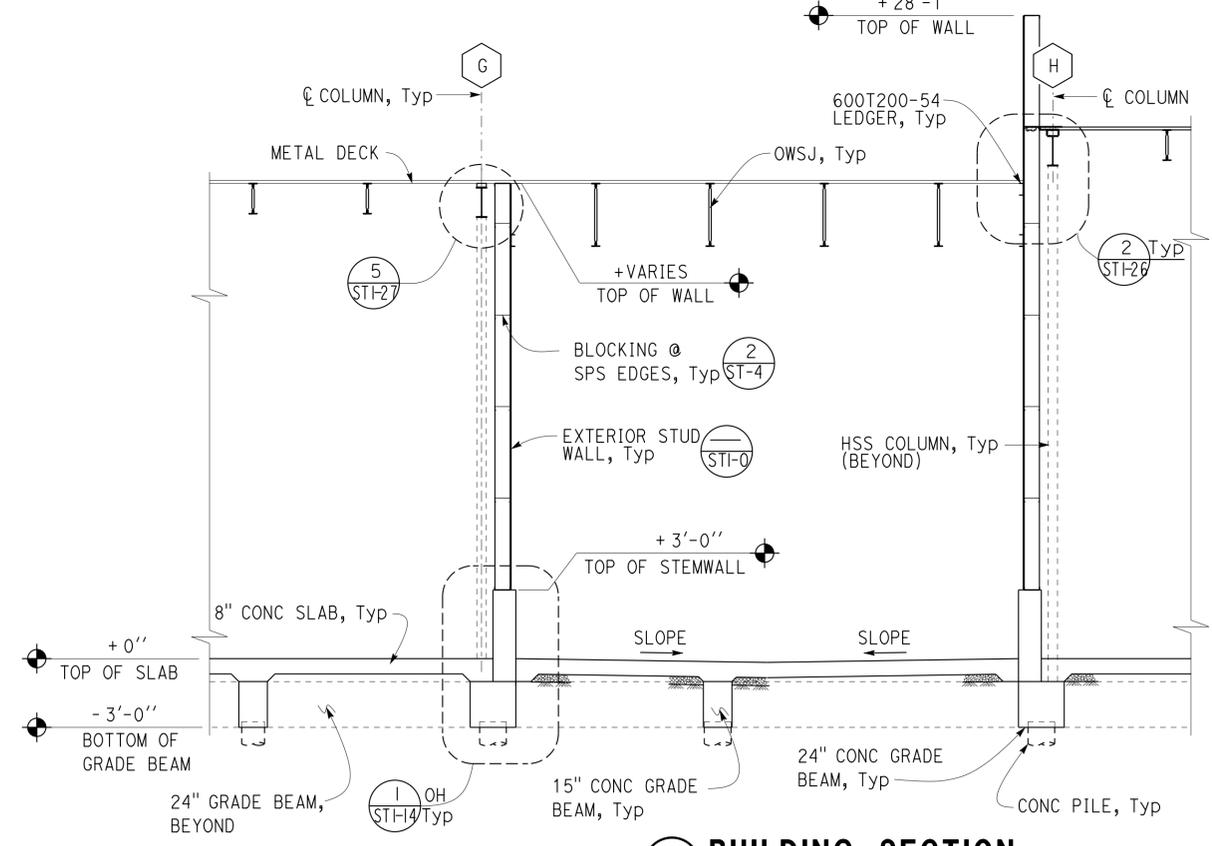
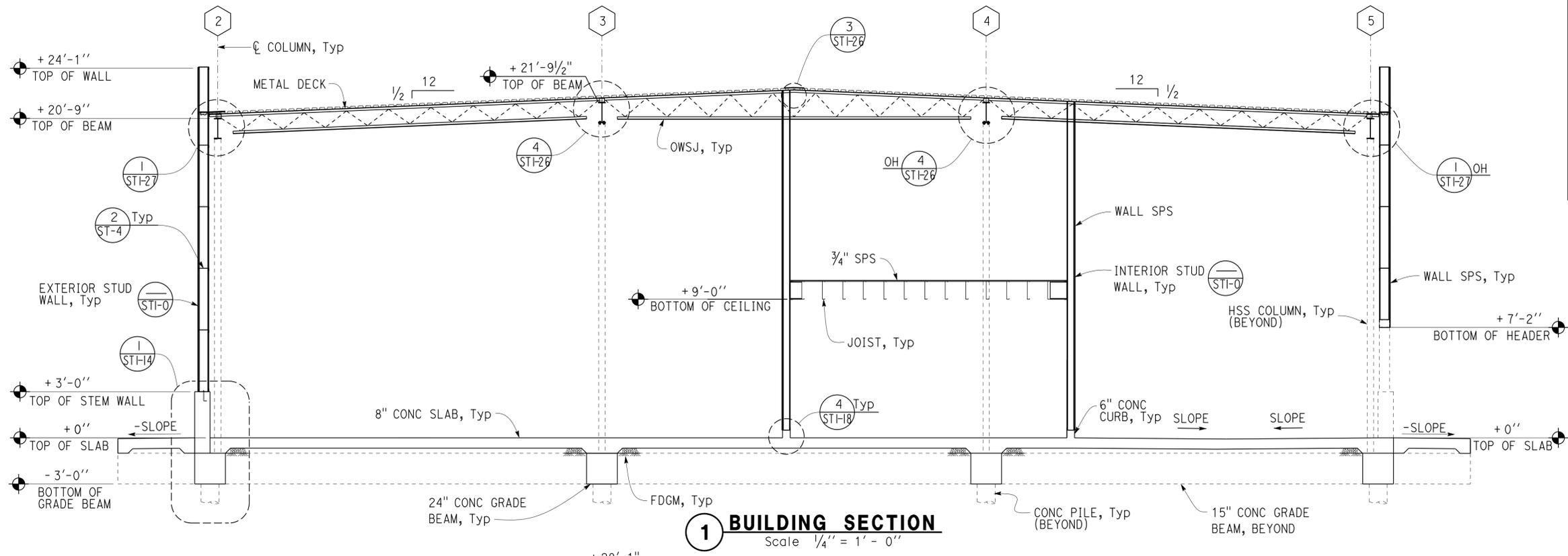
<i>Brian T. Sutliff</i> REGISTERED CIVIL ENGINEER		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *Ingrid P. Icastano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14



DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET OF
				33M5785	BUILDING 1A	BUILDING SECTION NO. 1	
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)		
QUANTITIES BY	CHECKED	DISREGARD PRINTS BEARING EARLIER REVISION DATES			06-14-13 07-11-13 07-18-13 07-22-13 05-02-13 05-06-13 05-08-13 05-13-13 06-04-13		

TAEWW Imperial - CCSC Rev. 01/13  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		214	371

*Brian T. Sutliff*  
 REGISTERED CIVIL ENGINEER  
 2-21-14  
 DATE

REGISTRED PROFESSIONAL ENGINEER  
 Brian T. Sutliff  
 No. 3862  
 Exp. 3-31-16  
 STRUCTURAL  
 STATE OF CALIFORNIA

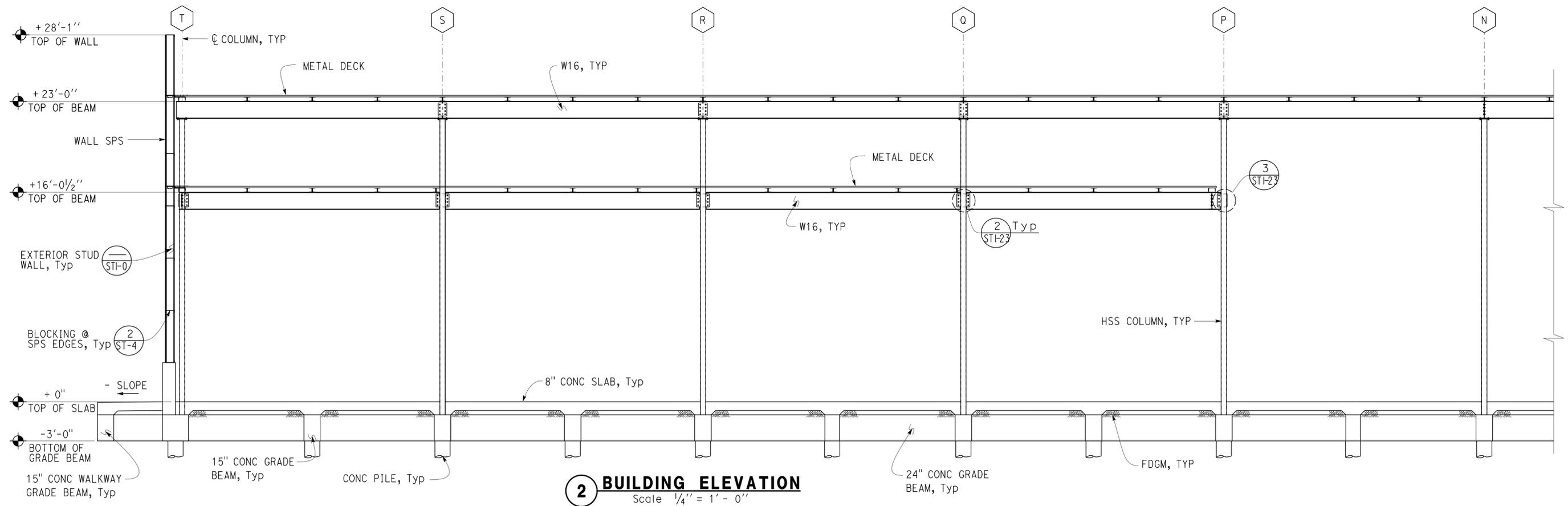
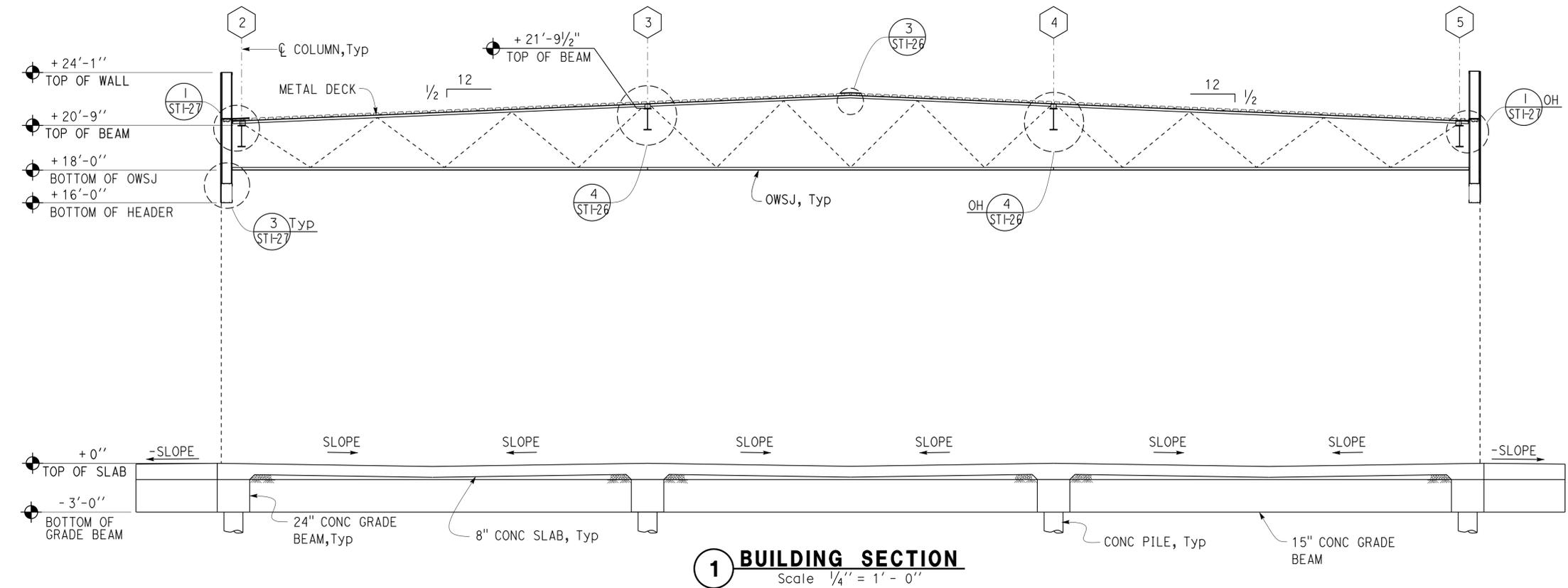
3-24-14  
 PLANS APPROVAL DATE

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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14



DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET ST1-12
					POST MILE	BUILDING 1A	BUILDING SECTION NO. 2	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET
TAEWW Imperial - CCSC Rev. 01/13						06-13-13 06-14-13 06-18-13 07-22-13 05-02-13 05-06-13 05-08-13 05-12-13 06-04-13		OF

30-APR-2014 10:23

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Ingrid P. Icasiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		215	371

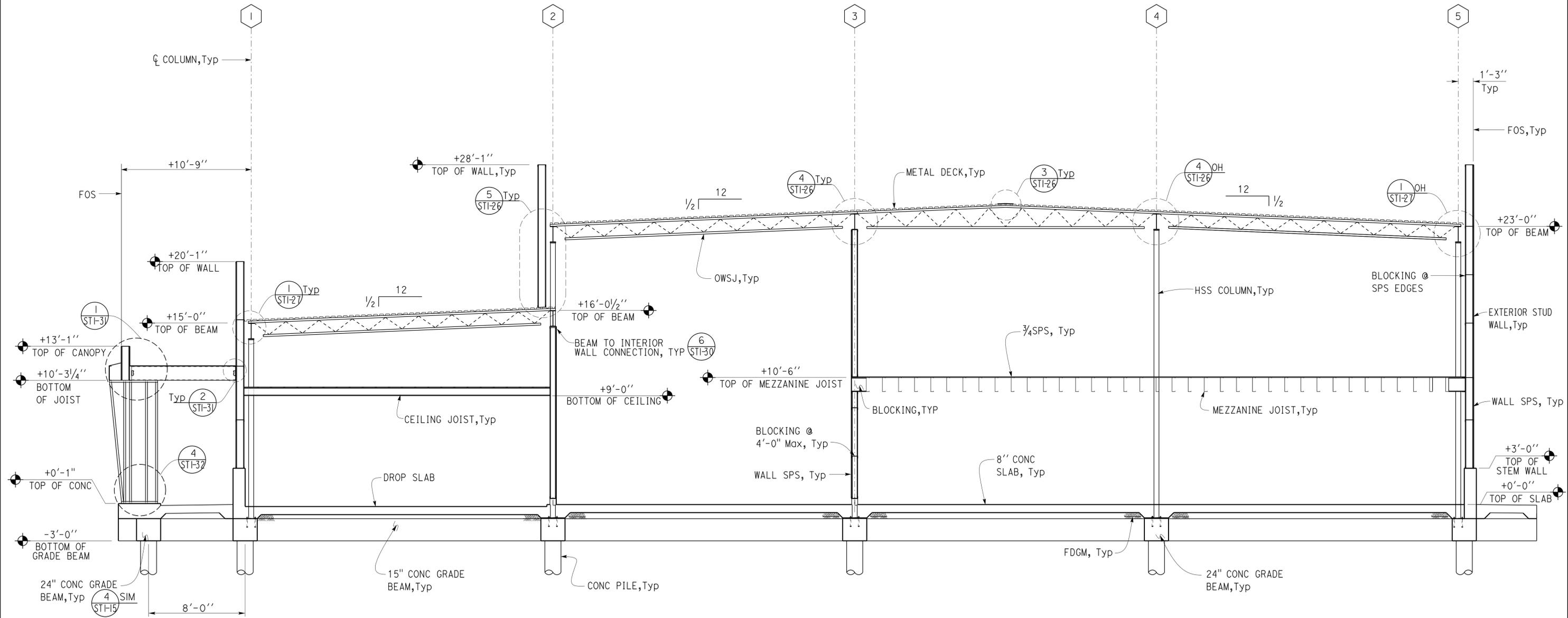
  

<i>Brian T. Sutliff</i>		2-21-14
REGISTERED CIVIL ENGINEER		DATE

3-24-14	
PLANS APPROVAL DATE	

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**1 BUILDING SECTION**  
 Scale 1/4" = 1' - 0"

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET ST1-13
				POST MILE	BUILDING 1B	BUILDING SECTION NO. 3	OF
				UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	REVISION DATES (PRELIMINARY STAGE ONLY)		

TAEMWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

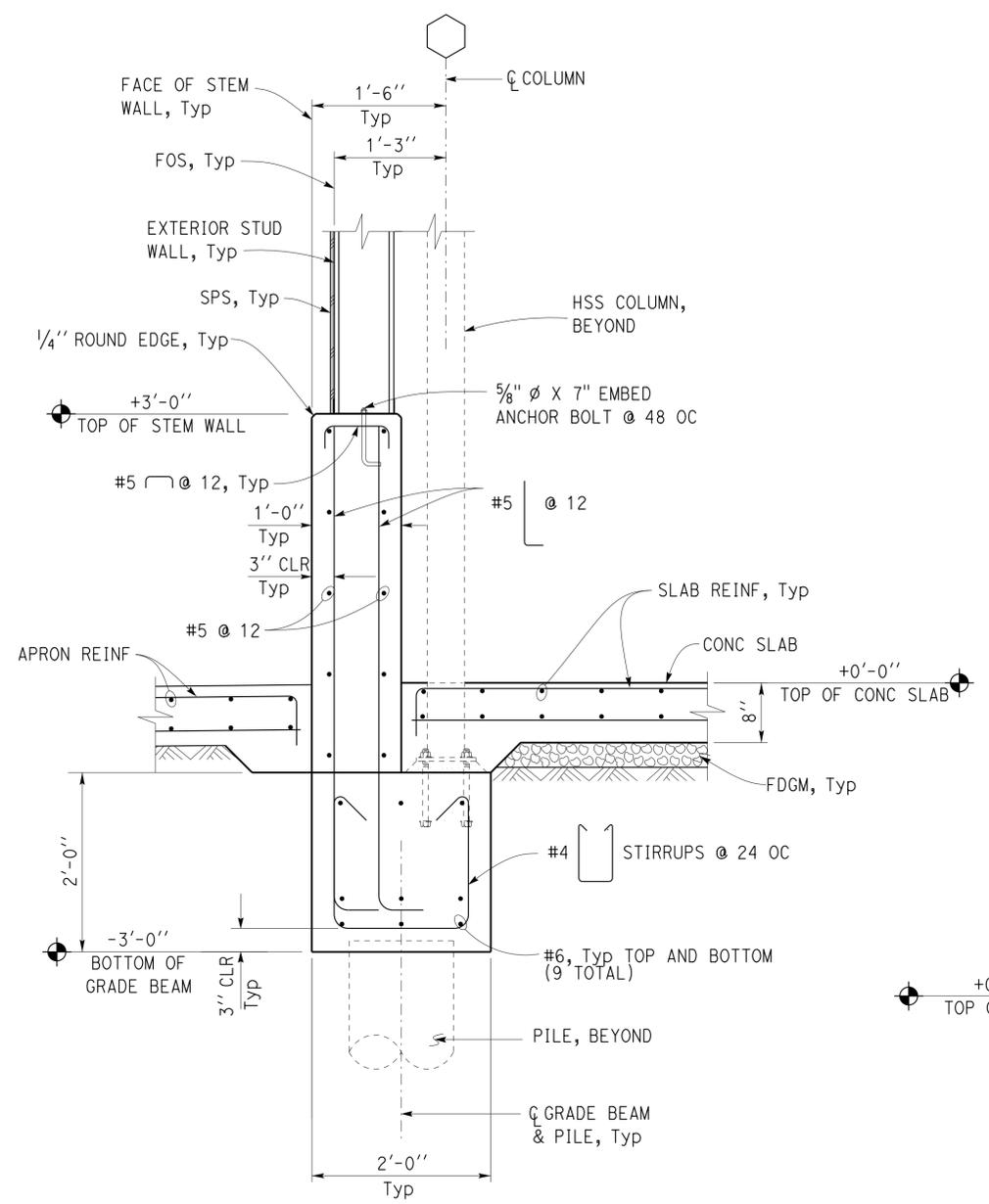
DISREGARD PRINTS BEARING EARLIER REVISION DATES 05-22-13 06-04-13 06-11-13 06-14-13 07-22-13 07-26-13

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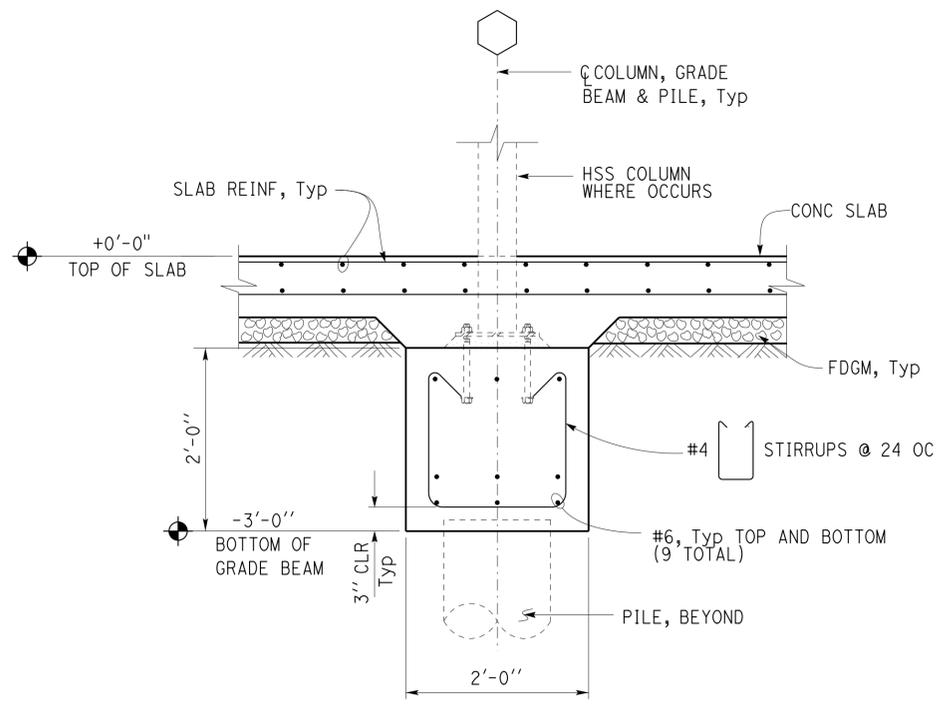
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		216	371

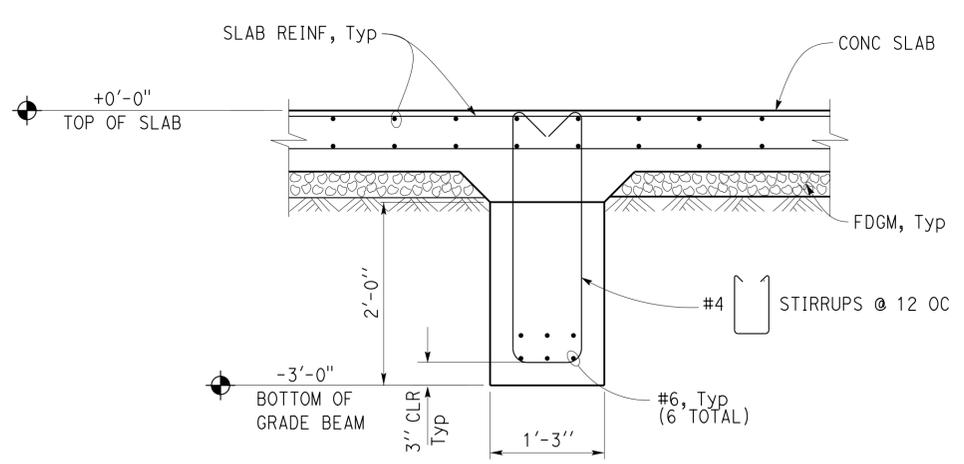
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-2-14 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



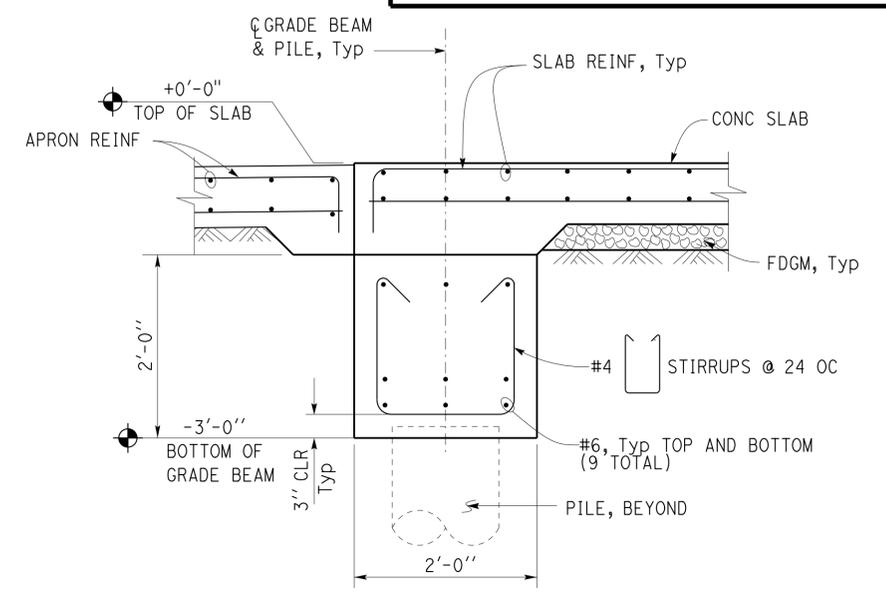
**1 EXTERIOR 24" GRADE BEAM SECTION**  
Scale 1" = 1' - 0"



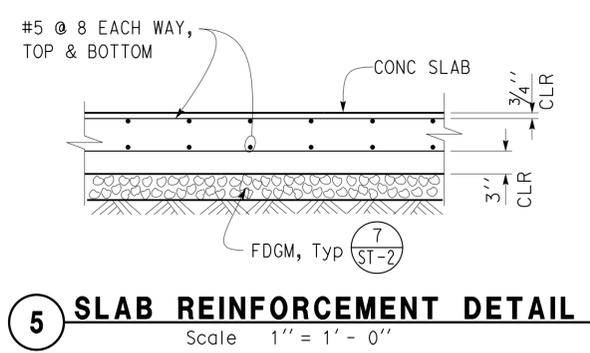
**2 24" GRADE BEAM SECTION**  
Scale 1" = 1' - 0"



**3 15" GRADE BEAM SECTION**  
Scale 1" = 1' - 0"



**4 24" GRADE BEAM SECTION AT OPENING**  
Scale 1" = 1' - 0"



**5 SLAB REINFORCEMENT DETAIL**  
Scale 1" = 1' - 0"

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE FOUNDATION DETAILS NO. 1	SHEET ST1-14 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 05-10-13 06-04-13 07-10-13	SHEET OF
	TAEWW Imperial - CCSC Rev. 01/13	D:\CADUser\Projects\Dist_04\SFOBB_maintenance\combined\st_04-18-13\expd\fe\st1_14.dgn			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		217	371

*Brian T. Sutliff*  
REGISTERED CIVIL ENGINEER

2-21-14  
DATE

3-24-14  
PLANS APPROVAL DATE

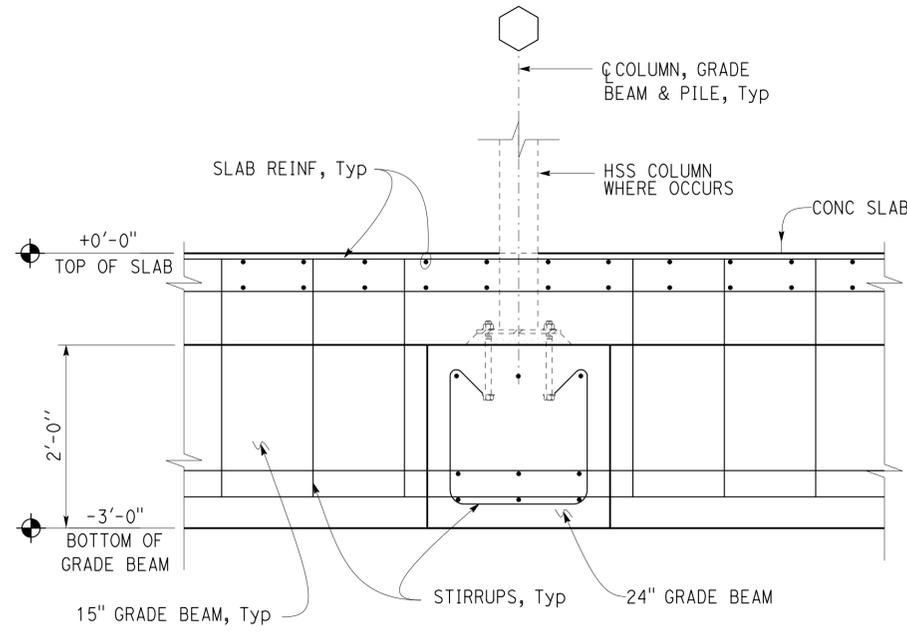
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*



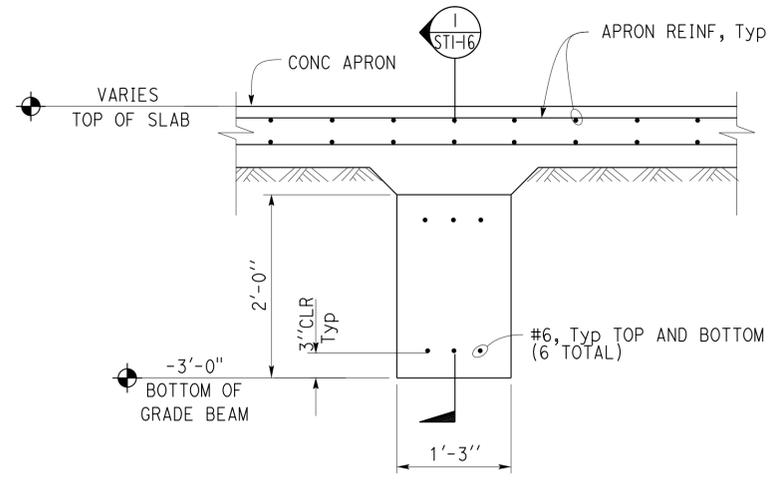
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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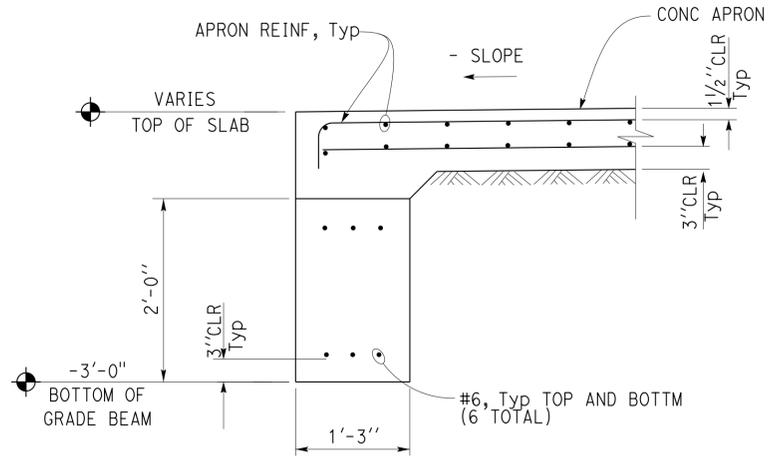
Reviewed by: *Ingrit P. Icasiano*  
INGRIT P. ICASIANO  
Approval date: 02-11-14



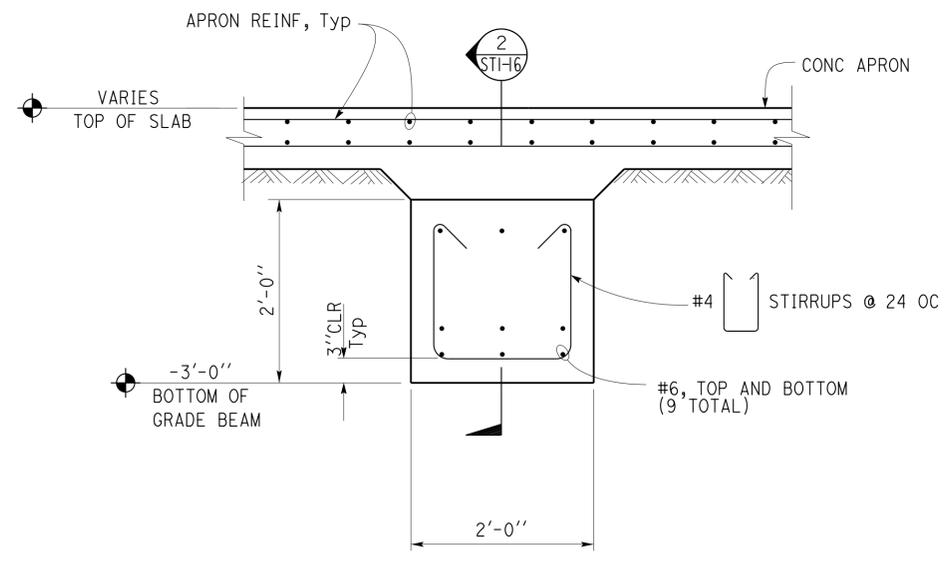
**1 15" GRADE BEAM TO 15" GRADE BEAM**  
Scale 1" = 1' - 0"



**3 15" WALKWAY GRADE BEAM SECTION**  
Scale 1" = 1' - 0"



**2 15" WALKWAY GRADE BEAM SECTION**  
Scale 1" = 1' - 0"



**4 24" WALKWAY GRADE BEAM SECTION**  
Scale 1" = 1' - 0"

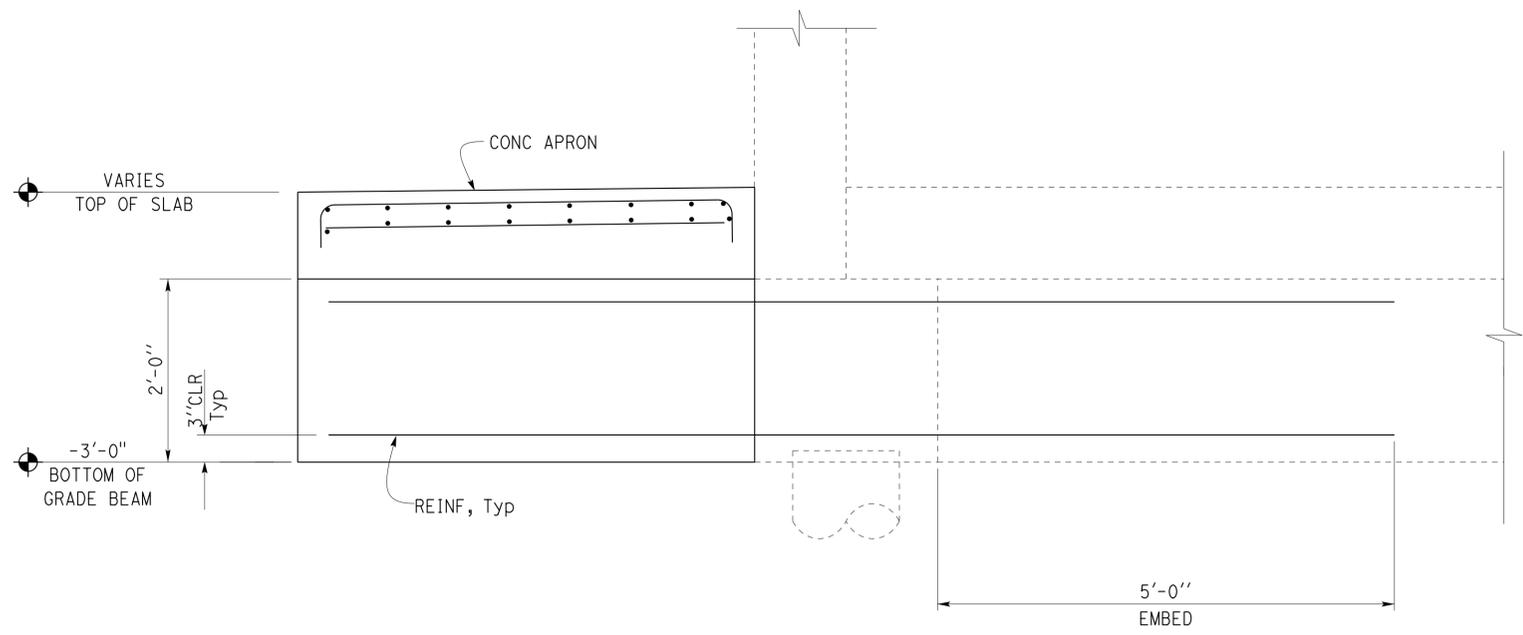
DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE FOUNDATION DETAILS NO. 2	SHEET ST1-15
	DETAILS	BY PETE VON SAVOYE			CHECKED BRIAN SUTLIFF		
QUANTITIES	BY	CHECKED	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 05-10-13 06-05-13 06-11-13 07-10-13	SHEET OF	

TAEWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

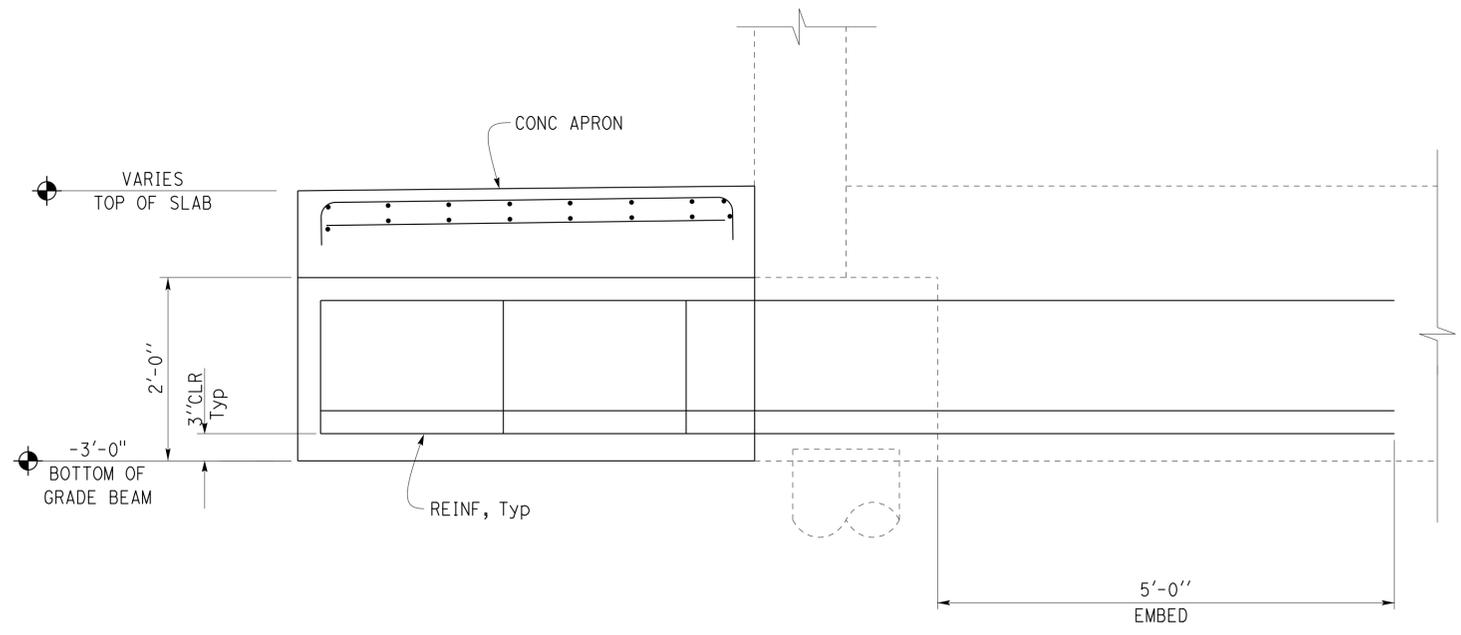
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

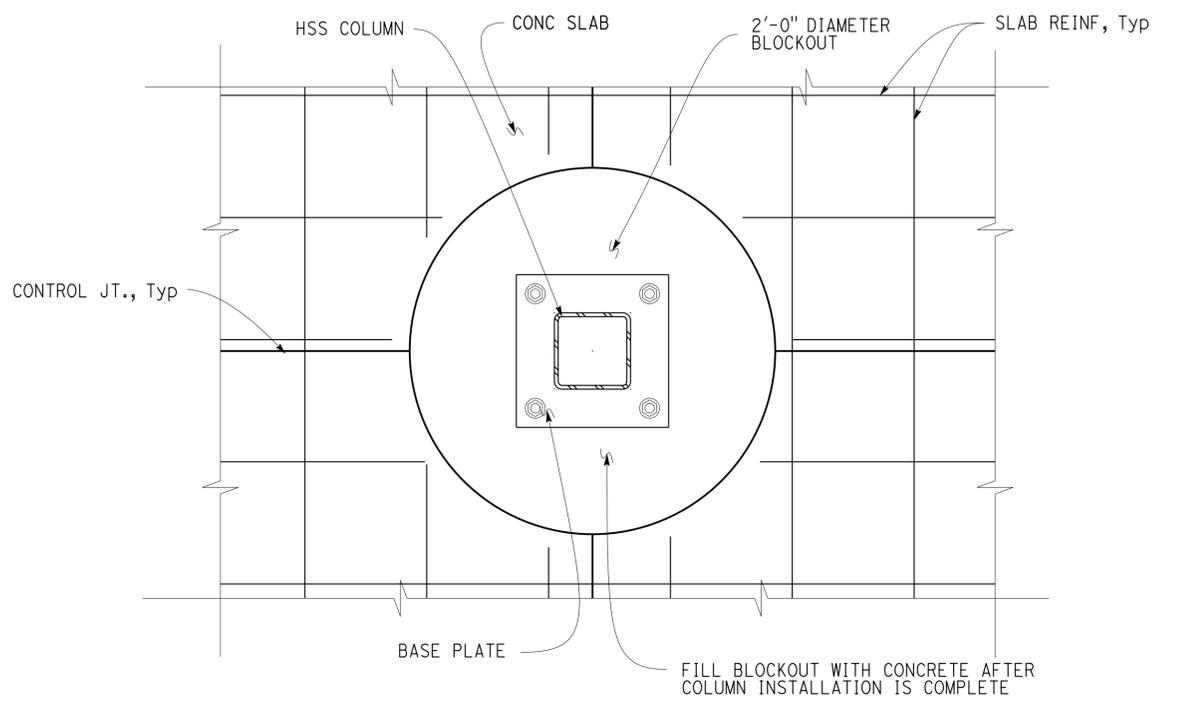
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		218	371
				<i>Brian T. Sutliff</i> REGISTERED CIVIL ENGINEER	2-21-14 DATE
				3-24-14 PLANS APPROVAL DATE	
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**1 15" WALKWAY GRADE BEAM**  
 Scale 1" = 1' - 0"



**2 24" WALKWAY GRADE BEAM**  
 Scale 1" = 1' - 0"



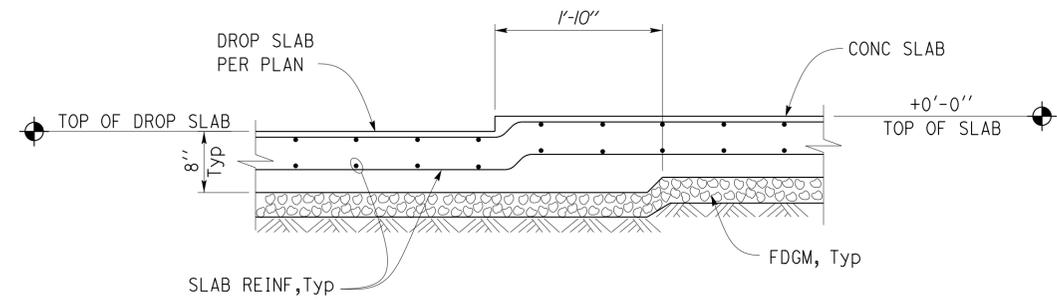
**3 CONCRETE BLOCKOUT DETAIL**  
 Scale 2" = 1' - 0"

DESIGN BY JUSTIN UYEHARA DETAILS BY PETE VON SAVOYE QUANTITIES BY	CHECKED BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> FOUNDATION DETAILS NO. 3	SHEET ST1-16
	CHECKED BRIAN SUTLIFF			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	05-10-13 06-05-13 06-17-13 07-10-13	

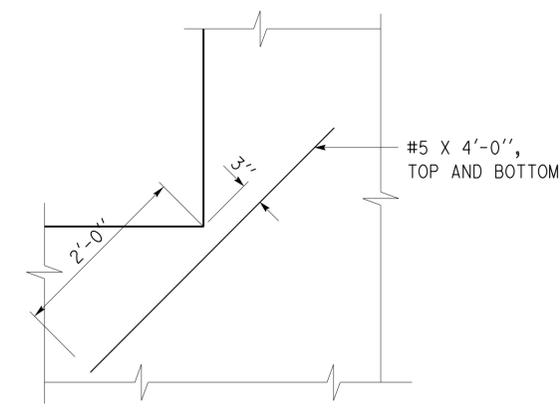
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		219	371

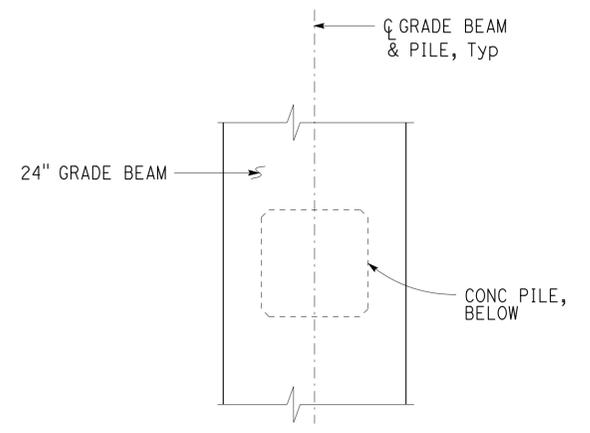
CALIFORNIA STATE FIRE MARSHAL <b>APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Castano</i> INGRID P. CASTANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



**1 DROP SLAB SECTION**  
Scale 1" = 1' - 0"

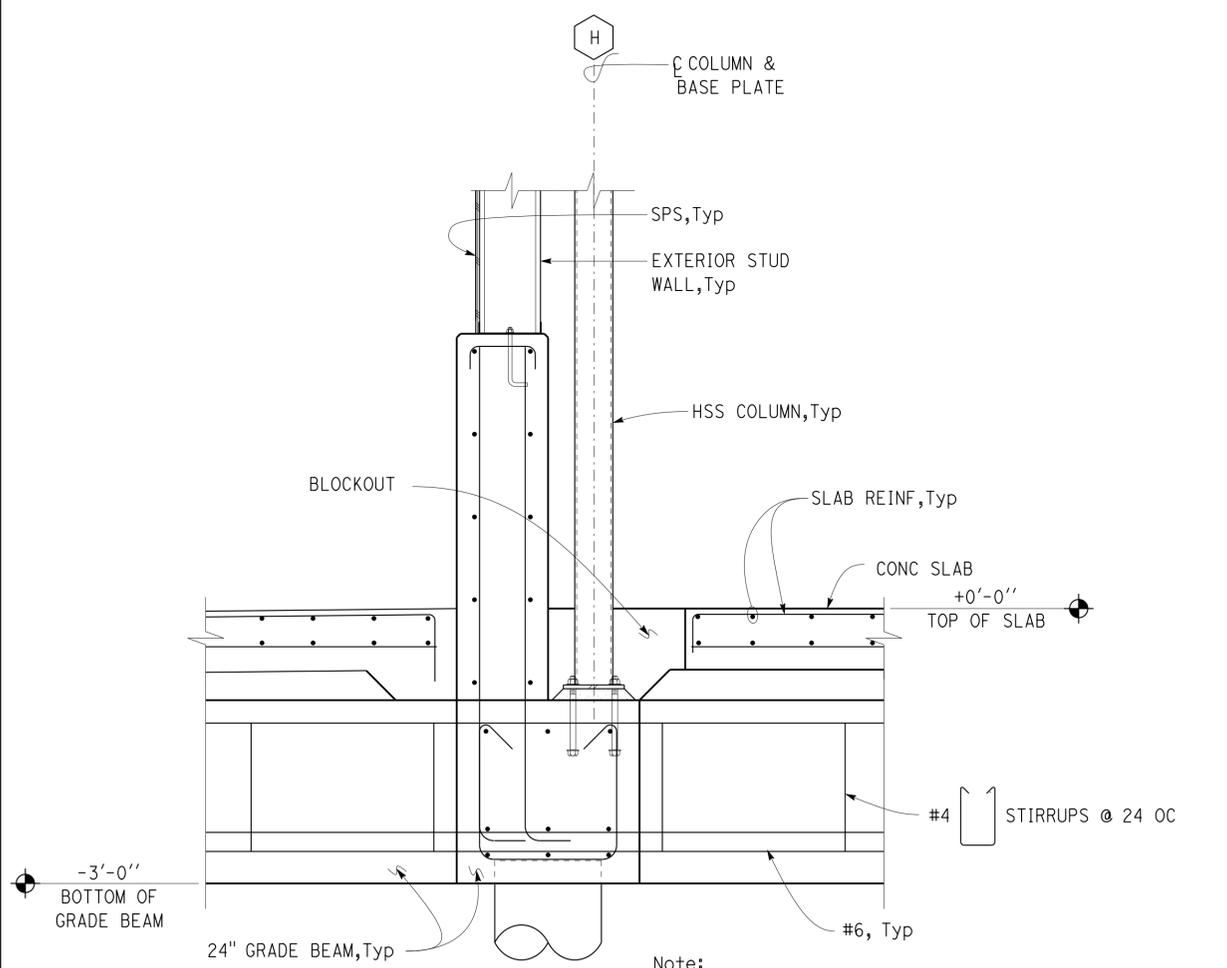


**2 SLAB CORNER PLAN**  
Scale 1" = 1' - 0"



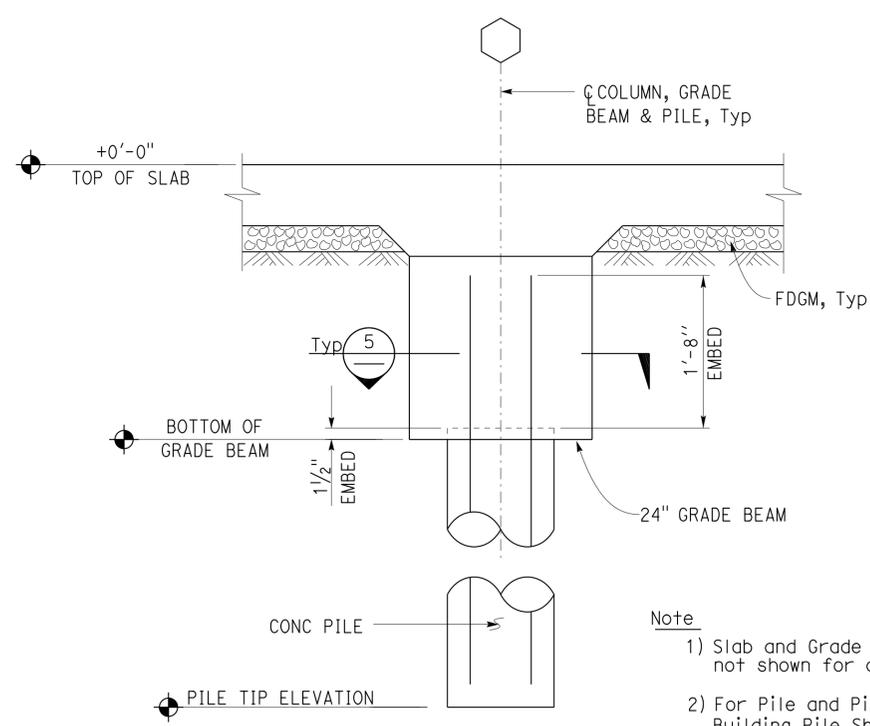
Note  
 1) Grade Beam Reinforcement not shown for clarity  
 2) For Pile Reinforcement see B2-8 of the 2010 Standard Plans

**5 PILE TO GRADE BEAM**  
SCALE 1" = 1' - 0"



**3 FOOTING SECTION**  
Scale 1" = 1' - 0"

Note:  
 For reinforcement & details not shown, see (1) Sim



Note  
 1) Slab and Grade Beam reinforcement not shown for clarity  
 2) For Pile and Pile Layout see Building Pile Sheets.  
 3) For Pile Reinforcement see B2-8 of the 2010 Standard Plans

**4 PILE TO GRADE BEAM**  
SCALE 1" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> FOUNDATION DETAILS NO. 4	SHEET 17
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF			POST MILE		OF
QUANTITIES BY	CHECKED					

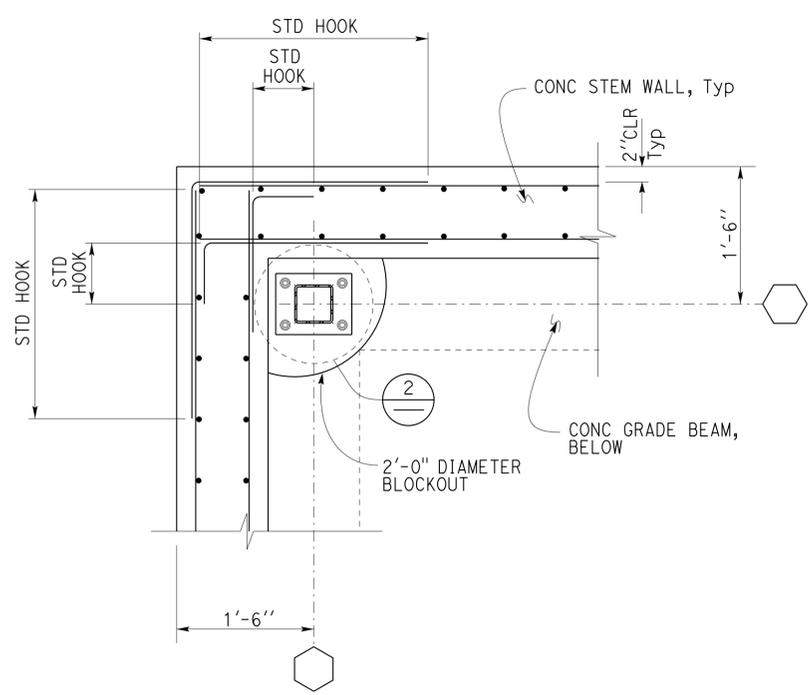
  

UNIT: 3599 CONTRACT No.: 000001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
PROJECT NUMBER & PHASE: 04130001331	07-29-13			

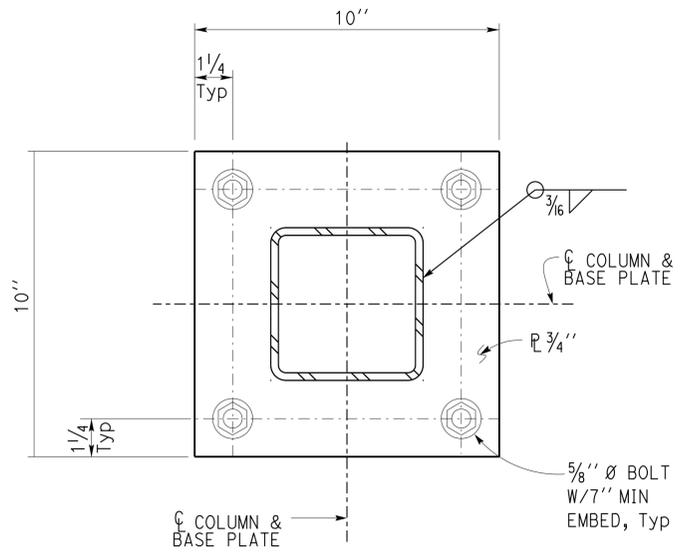
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		220	371

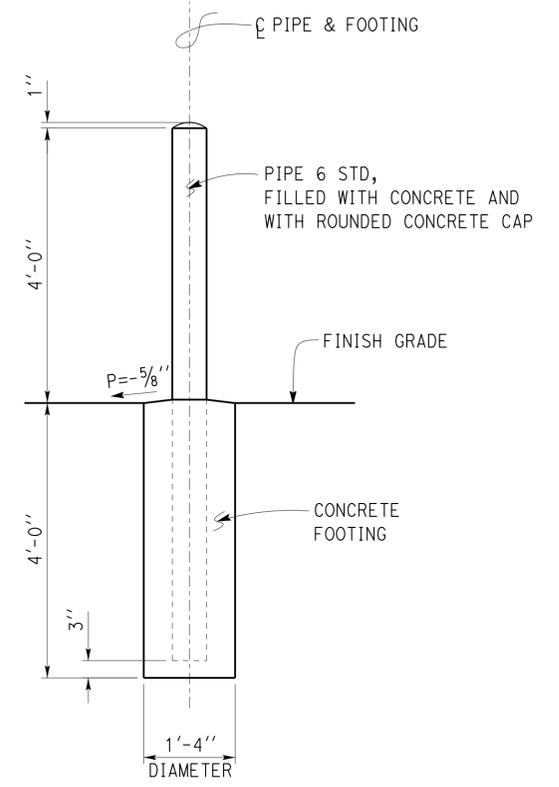
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Icasiano</i> INGRID P. ICASIANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



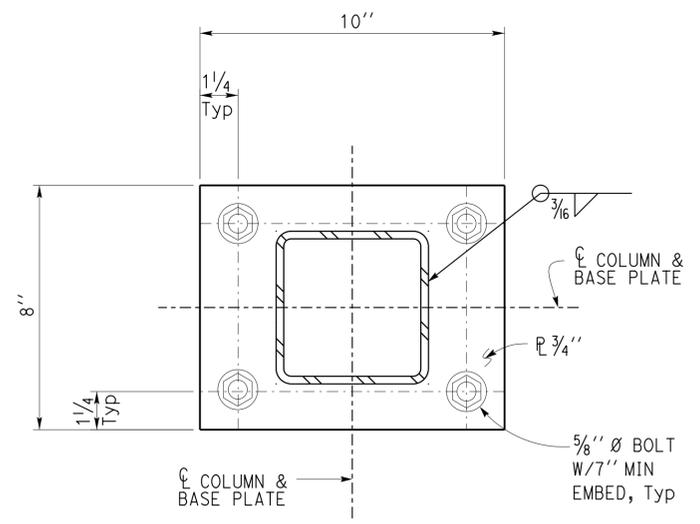
**1 TYPICAL CORNER DETAIL**  
NO SCALE



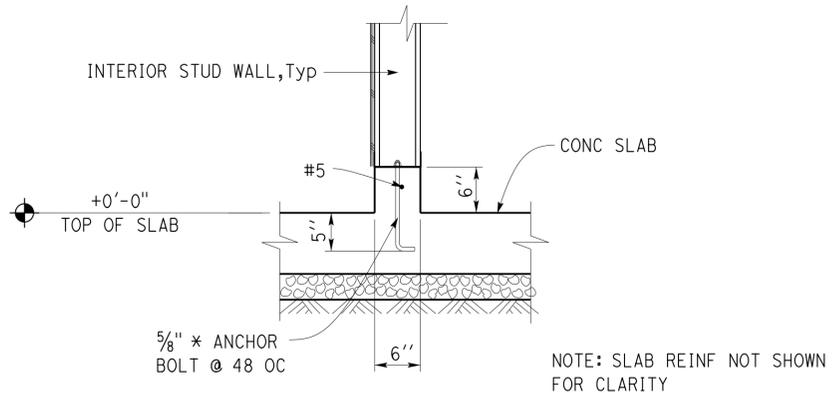
**3 BASE PLATE DETAIL**  
SCALE 4" = 1' - 0"



**5 PIPE GUARD POST DETAIL**  
Scale 3/4" = 1' - 0"



**2 BASE PLATE DETAIL**  
SCALE 4" = 1' - 0"



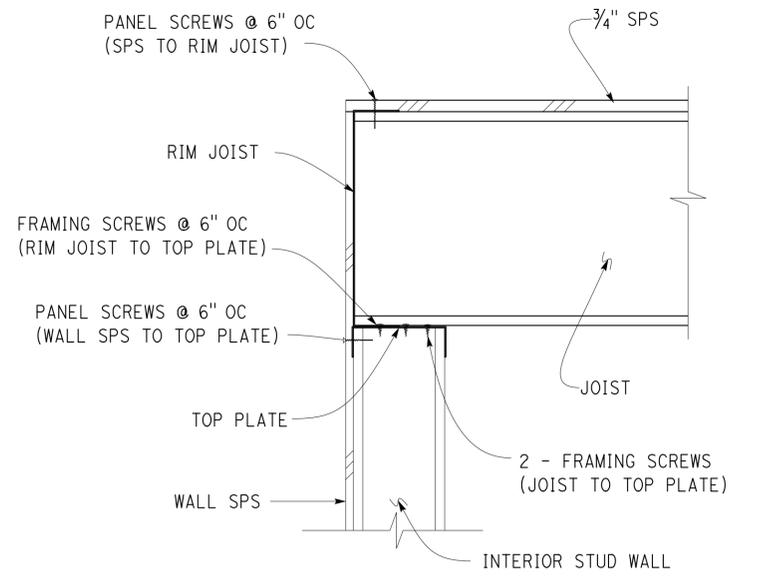
**4 CURB SECTION**  
Scale 1" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE FOUNDATION DETAILS NO. 5	SHEET ST1-18
				33M5785		
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY) 07-29-13	SHEET OF
QUANTITIES BY	CHECKED			DISREGARD PRINTS BEARING EARLIER REVISION DATES		

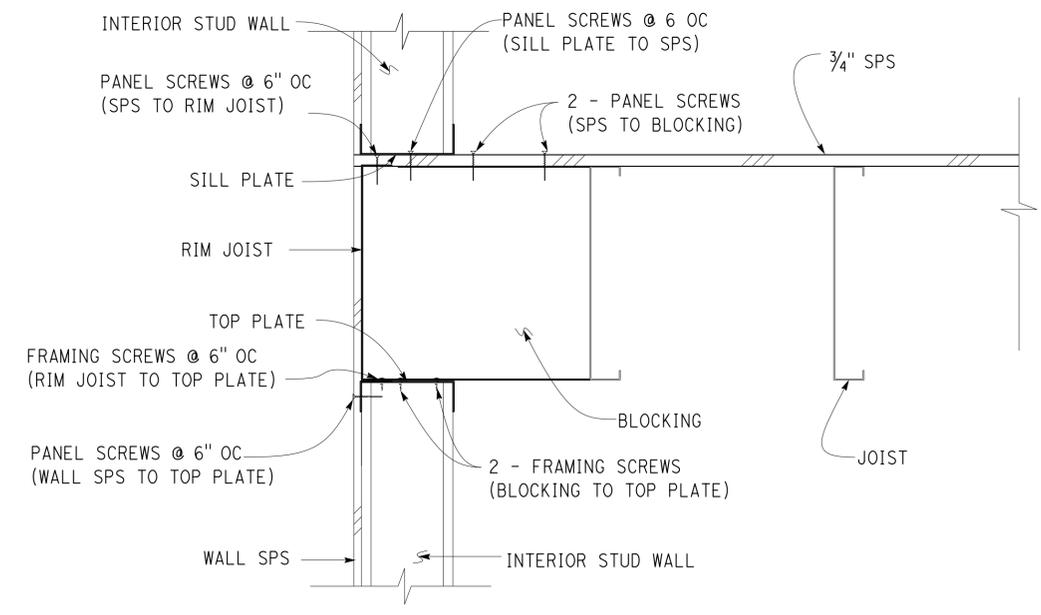
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		221	371

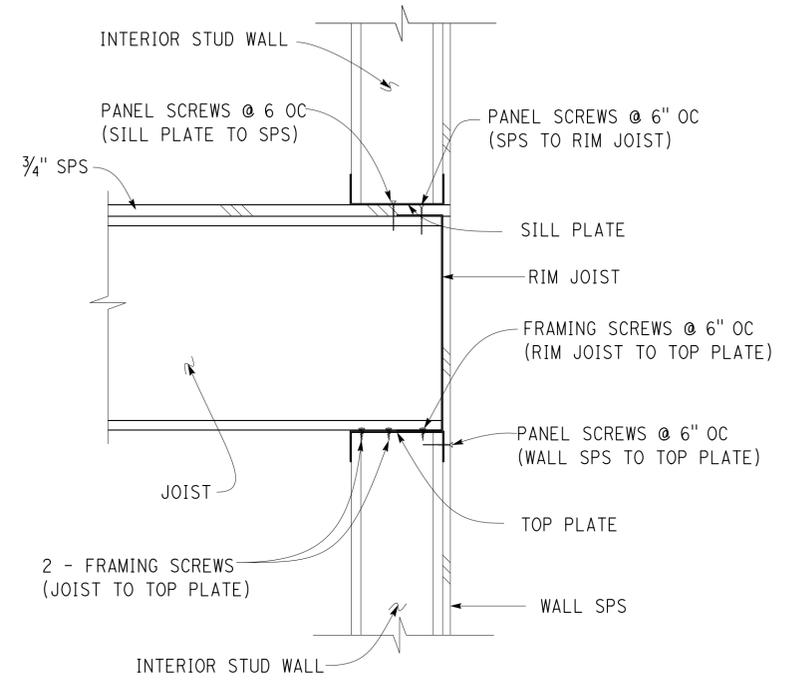
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
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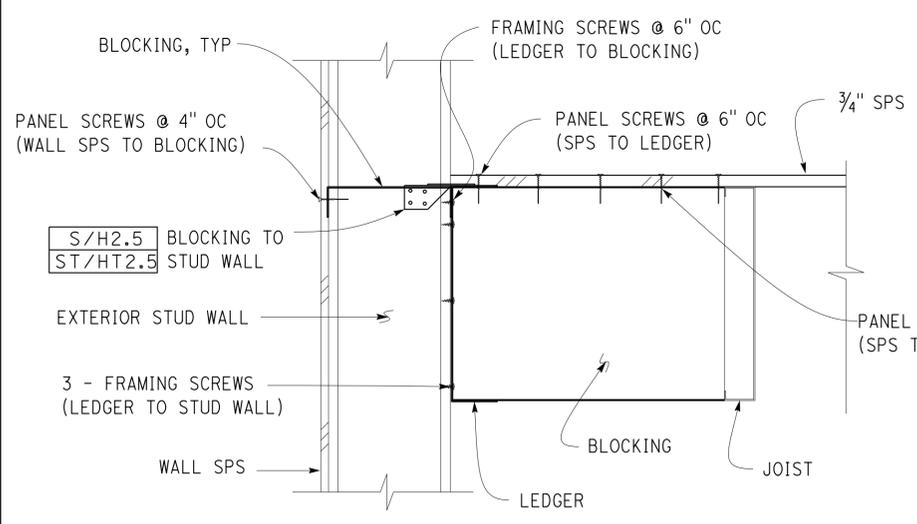
**1 JOIST TO INTERIOR WALL CONNECTION**  
Scale 2'' = 1' - 0''



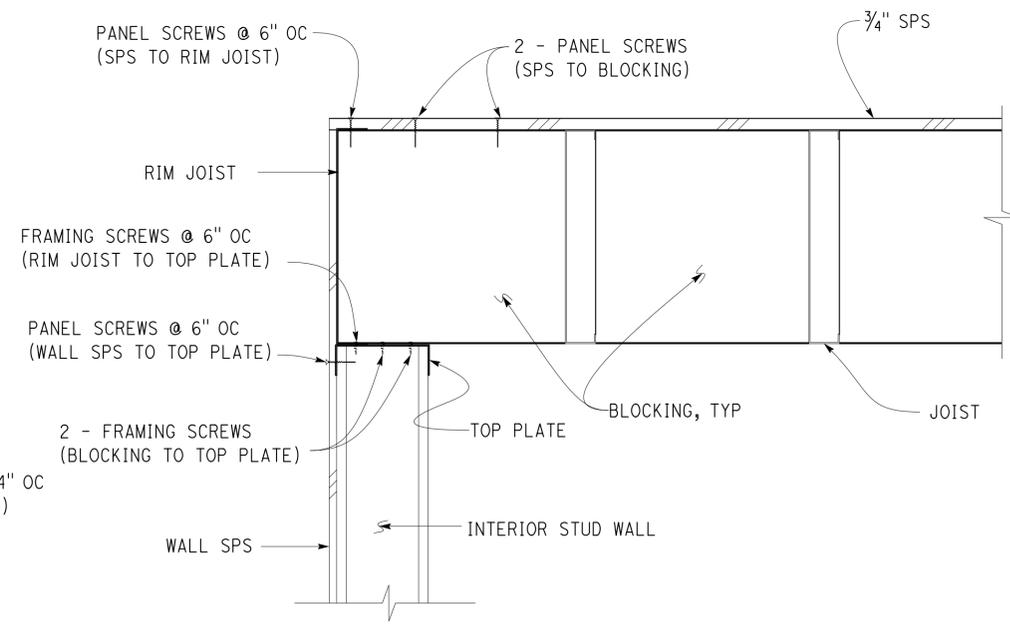
**3 BLOCKING TO INTERIOR WALL CONNECTION**  
Scale 2'' = 1' - 0''



**5 JOIST TO INTERIOR WALL CONNECTION**  
Scale 2'' = 1' - 0''



**2 BLOCKING TO EXTERIOR WALL CONNECTION**  
Scale 2'' = 1' - 0''



**4 BLOCKING TO INTERIOR WALL CONNECTION**  
Scale 2'' = 1' - 0''

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-19
				33M5785		
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	POST MILE	INTERIOR JOIST FRAMING DETAILS NO. 1	SHEET OF
QUANTITIES BY	CHECKED			04130001331		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

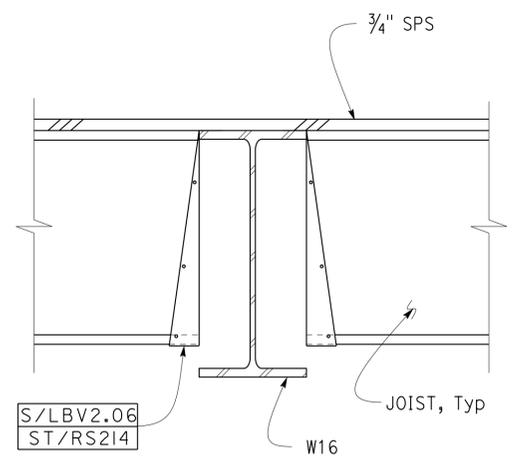
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		222	371

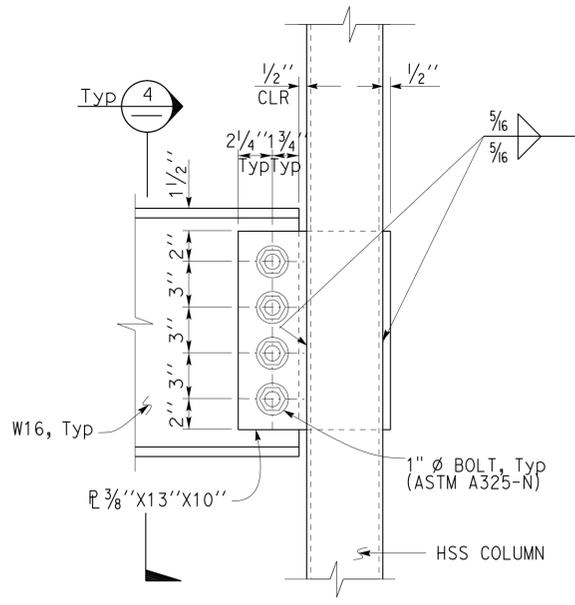
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingried P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		

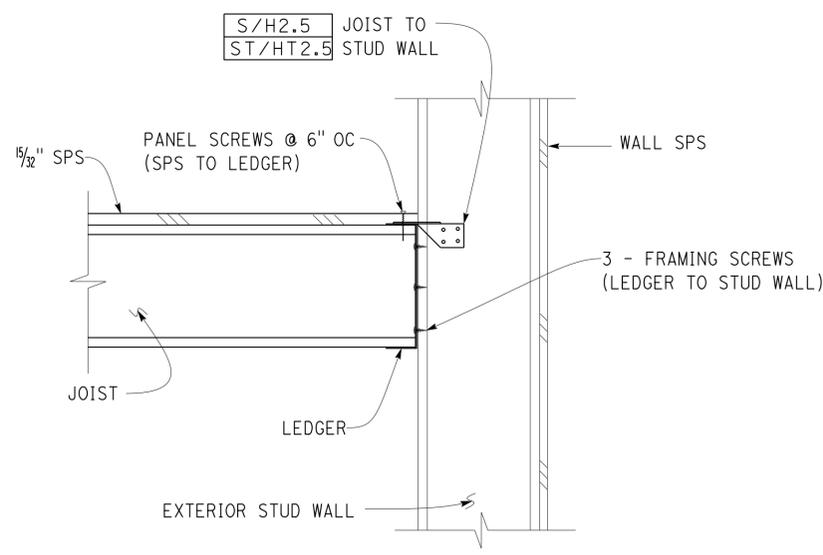
Brian T. Sutliff REGISTERED CIVIL ENGINEER		No. 3862 Exp. 3-31-16 STRUCTURAL ENGINEER STATE OF CALIFORNIA
---	--	--



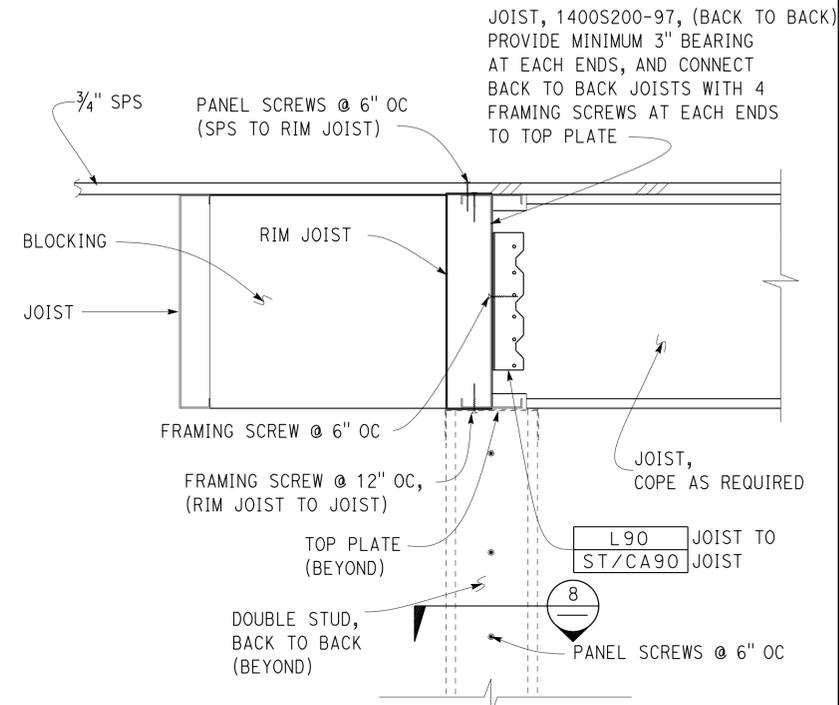
**1 JOIST TO BEAM CONNECTION**  
Scale 2" = 1' - 0"



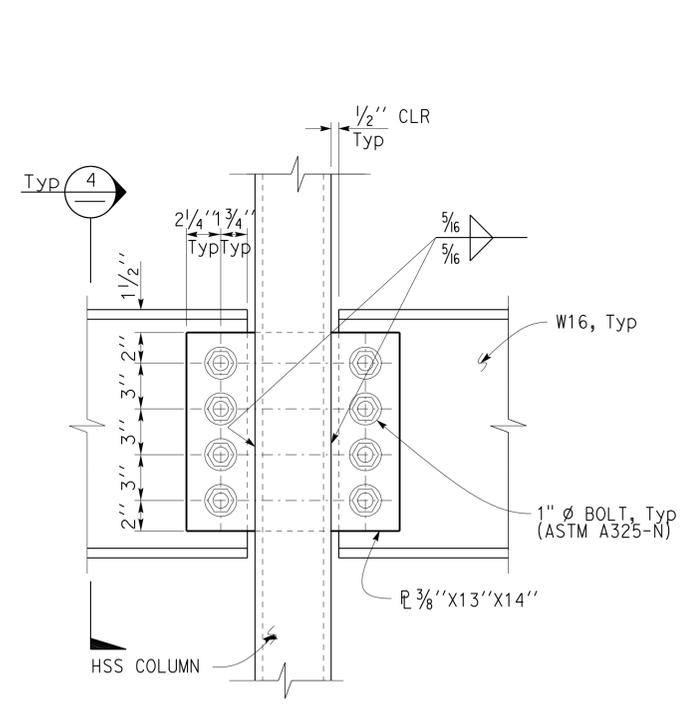
**3 BEAM TO COLUMN CONNECTION**  
Scale 2" = 1' - 0"



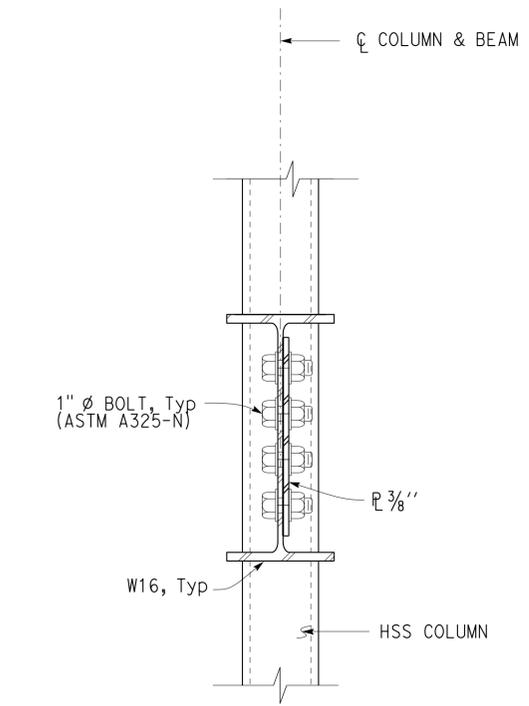
**5 JOIST TO EXTERIOR WALL CONNECTION**  
Scale 2" = 1' - 0"



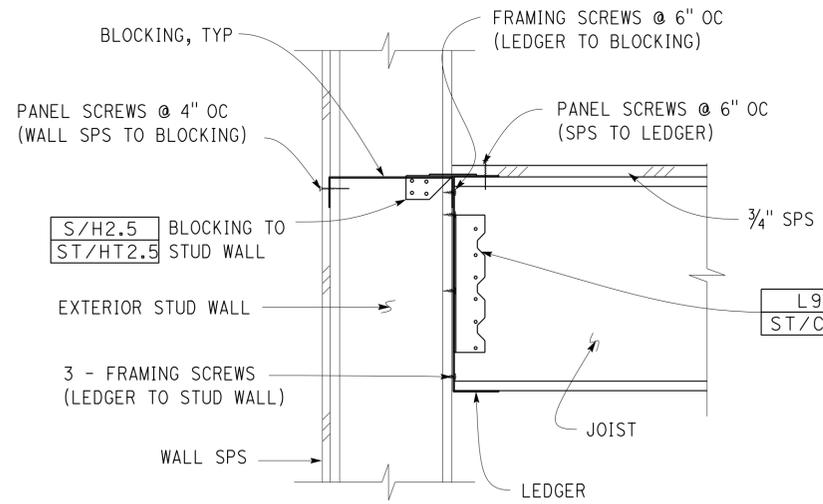
**7 JOIST TO JOIST CONNECTION**  
Scale 2" = 1' - 0"



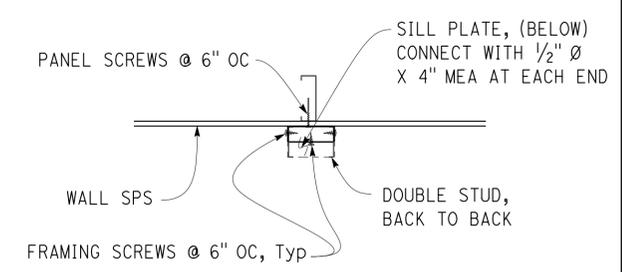
**2 BEAM TO COLUMN CONNECTION**  
Scale 2" = 1' - 0"



**4 BEAM TO COLUMN CONNECTION**  
Scale 2" = 1' - 0"



**6 JOIST TO EXTERIOR WALL CONNECTION**  
Scale 2" = 1' - 0"



**8 STUD CONNECTION**  
Scale 2" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED BY BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE INTERIOR JOIST FRAMING DETAILS NO. 2	SHEET 10/23
DETAILS BY PETE VON SAVOYE	CHECKED BY BRIAN SUTLIFF			POST MILE		SHEET OF
QUANTITIES BY	CHECKED			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEWW Imperial - CCSC Rev. 01/13

D:\CADUser\Projects\Dist\_04\SFOBB\_maintenance\combined\st104-18-13\expd\st1\_20.dgn

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		223	371

*Brian T. Sutliff*  
 REGISTERED CIVIL ENGINEER  
 2-21-14  
 DATE

Brian T. Sutliff  
 No. 3862  
 Exp. 3-31-16  
 REGISTERED PROFESSIONAL ENGINEER  
 STRUCTURAL  
 STATE OF CALIFORNIA

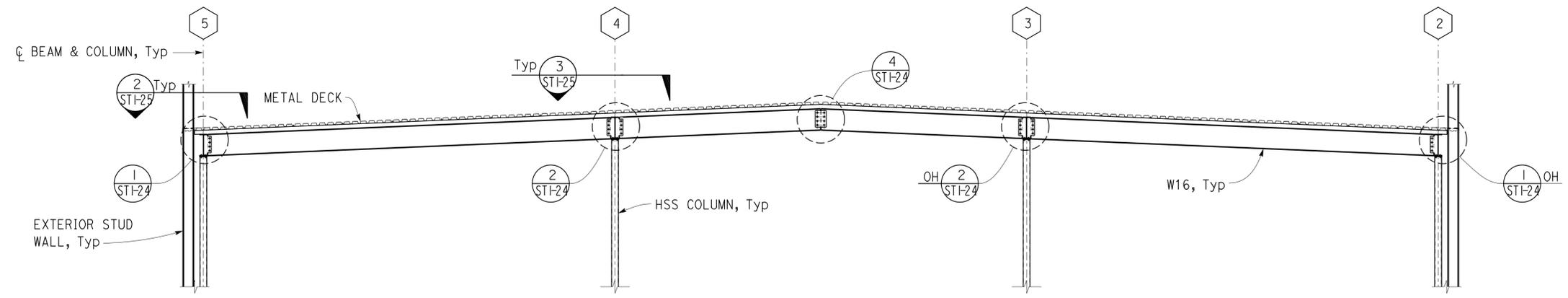
3-24-14  
 PLANS APPROVAL DATE

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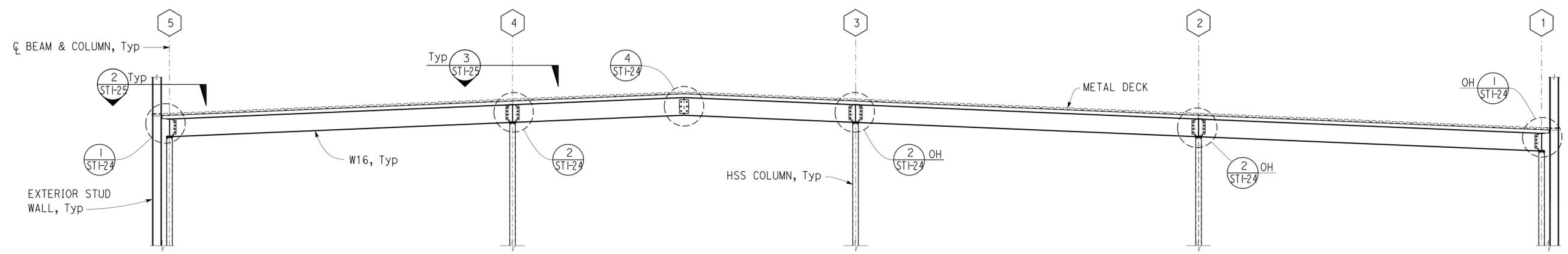
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

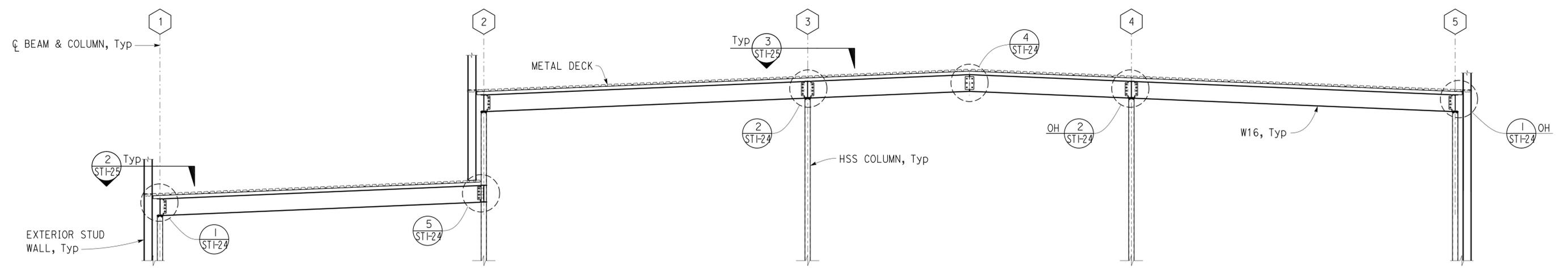
Reviewed by: *Ingrid P. Icasiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14



**1 BEAM ELEVATION**  
 Scale 1/4" = 1' - 0"



**2 BEAM ELEVATION**  
 Scale 1/4" = 1' - 0"



**3 BEAM ELEVATION**  
 Scale 1/4" = 1' - 0"

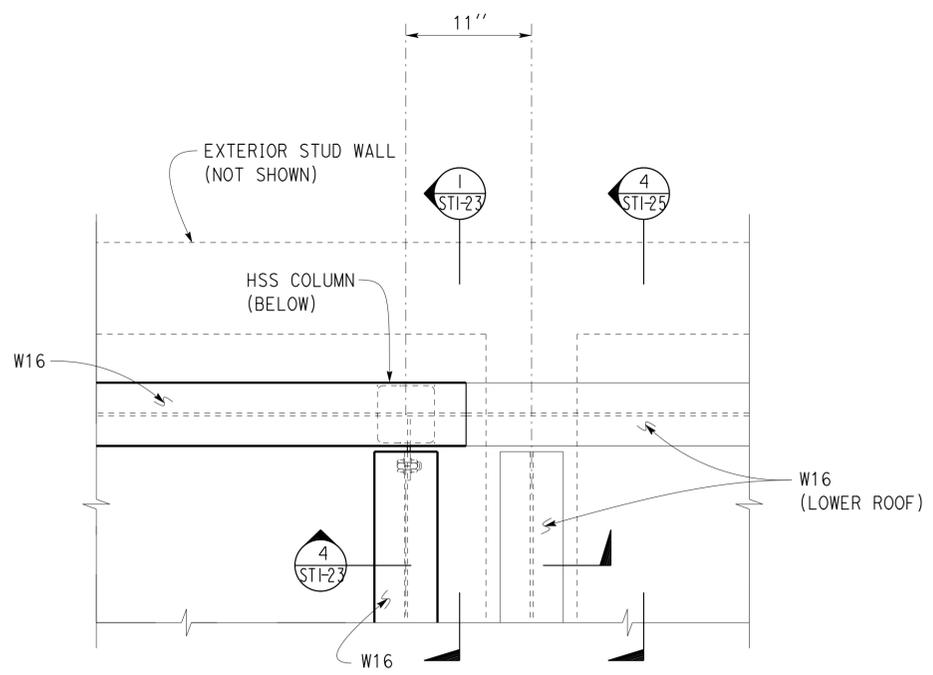
DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE	SHEET ST1-21
					POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13					07-18-13	05-07-13 05-08-13 05-21-13 06-18-13 06-17-13 06-26-13 07-02-13 07-18-13	

30-APR-2014 10:23

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		224	371

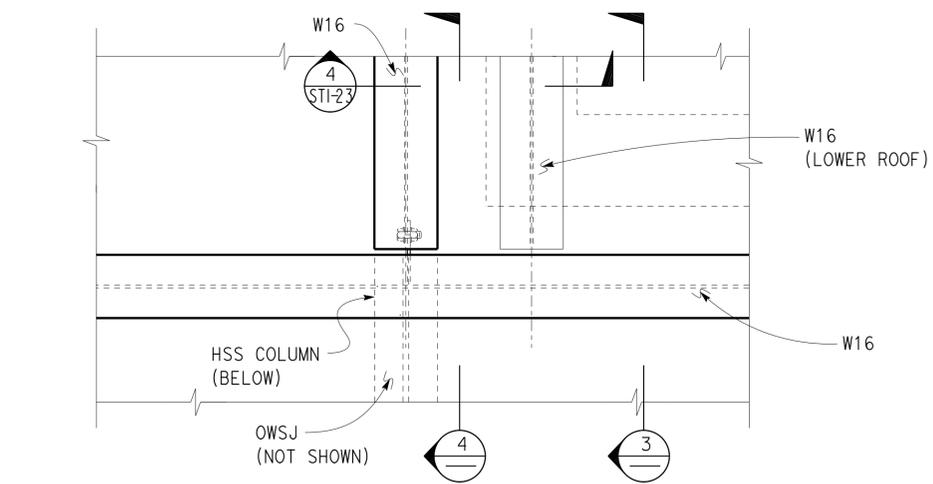
  

<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
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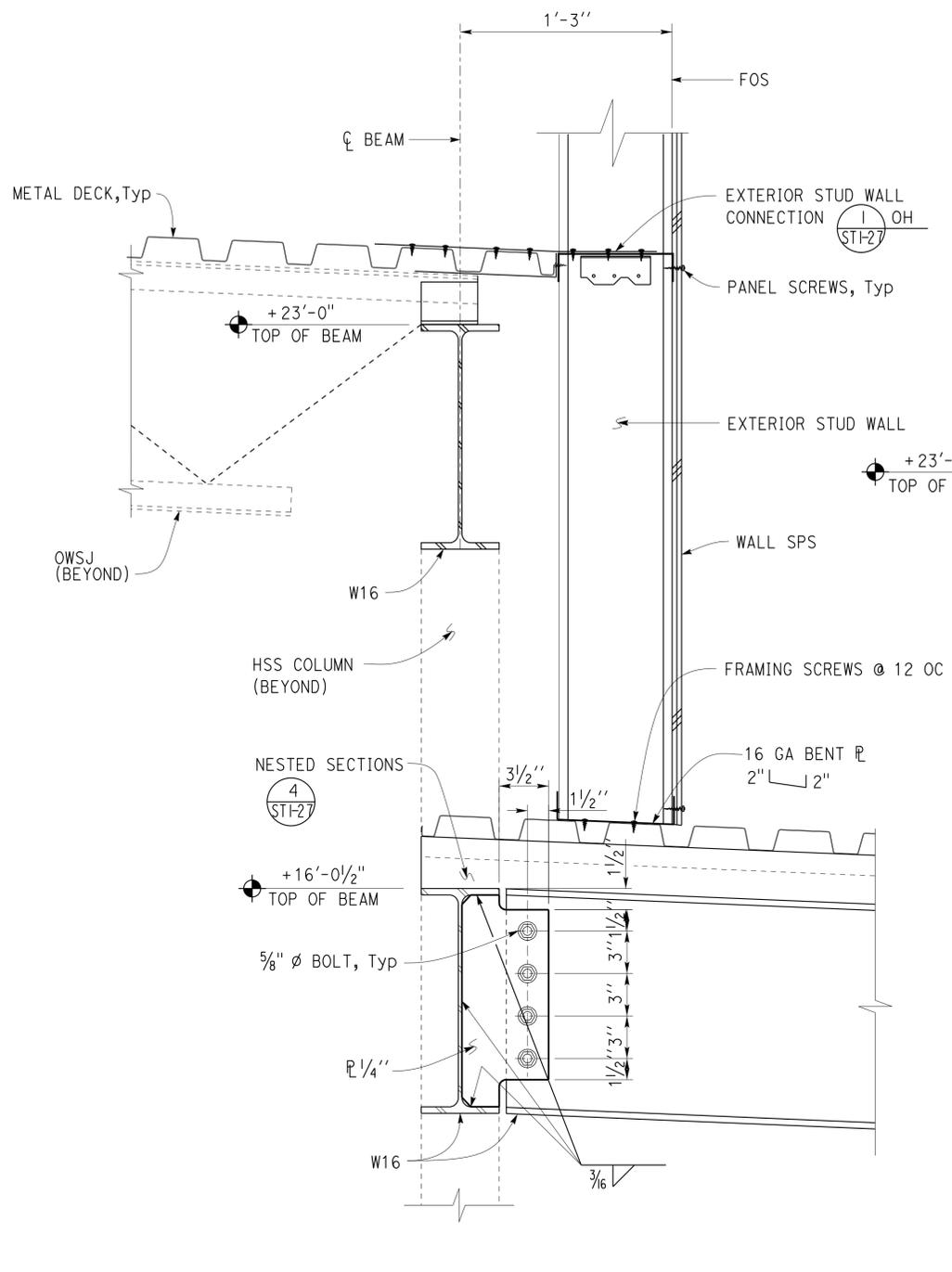
Note:  
OWSJ, Metal Deck, Exterior Stud Wall and Connection not shown for clarity

**1 PARTIAL ROOF FRAMING PLAN**  
Scale 1/2" = 1' - 0"

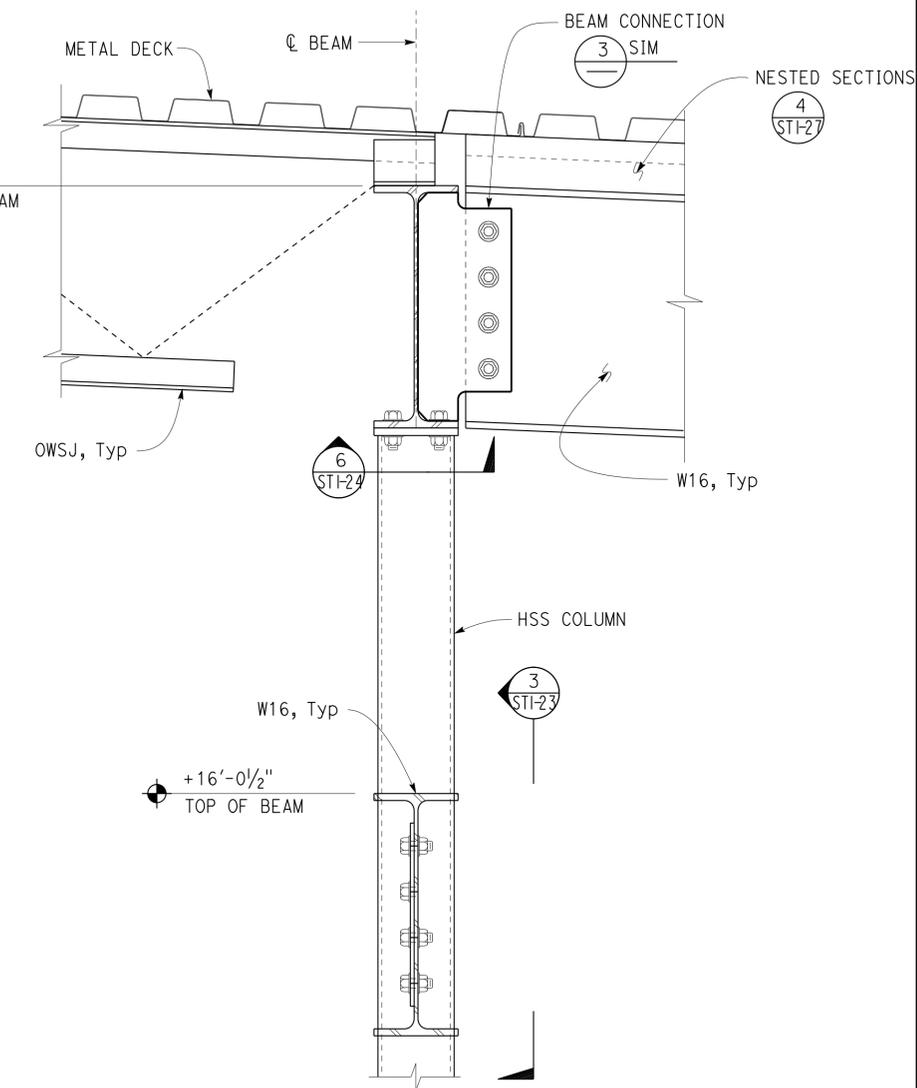


Note:  
OWSJ, Metal Deck, Exterior Stud Wall and Connection not shown for clarity

**2 PARTIAL ROOF FRAMING PLAN**  
Scale 1/2" = 1' - 0"



**3 ROOF SECTION**  
Scale 2" = 1' - 0"



**4 ROOF SECTION**  
Scale 2" = 1' - 0"

DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF
DETAILS	BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 33M5785  
POST MILE

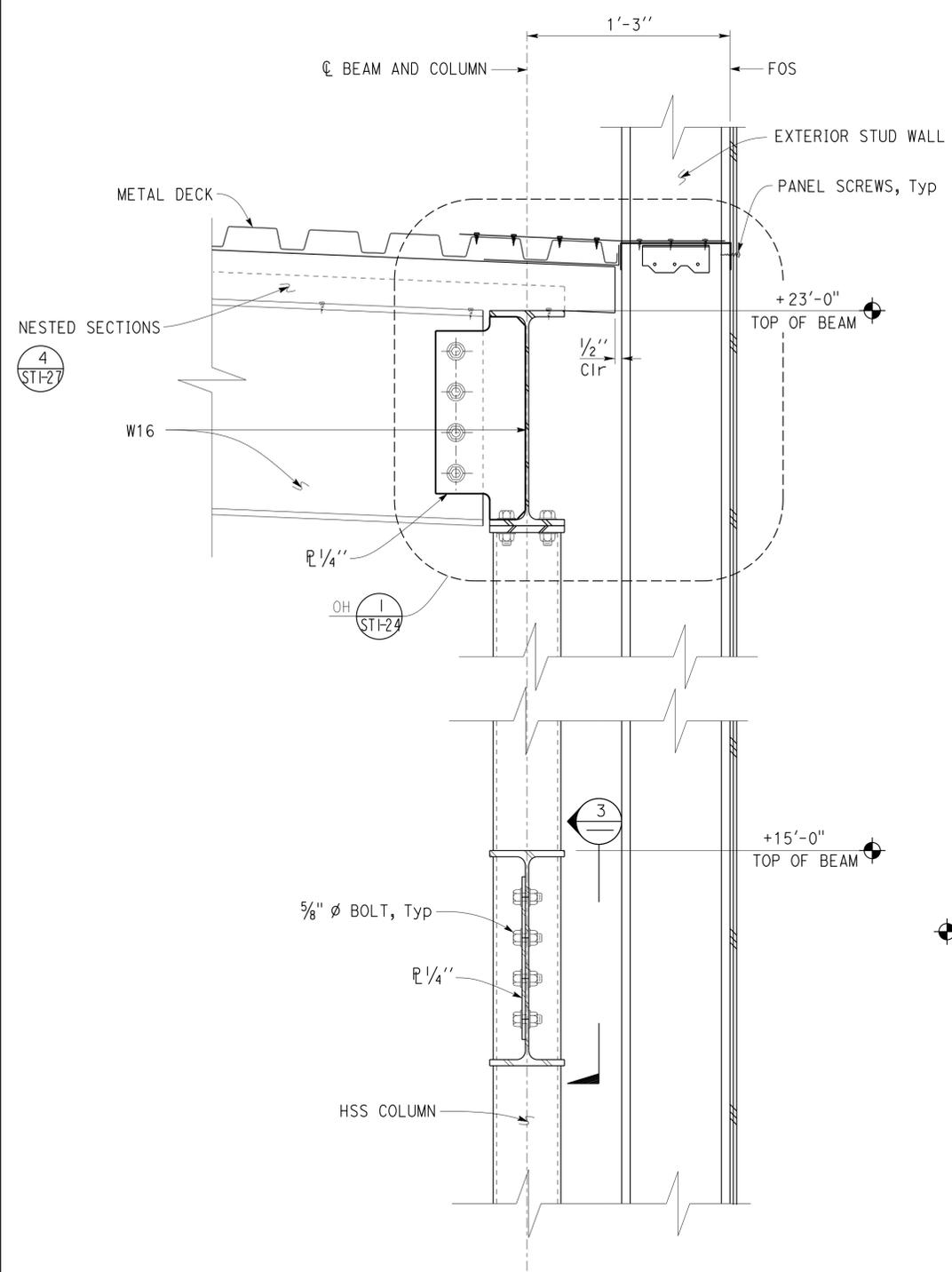
SFOBB WAREHOUSE  
ROOF FRAMING DETAILS NO. 2

SHEET OF  
ST1-22

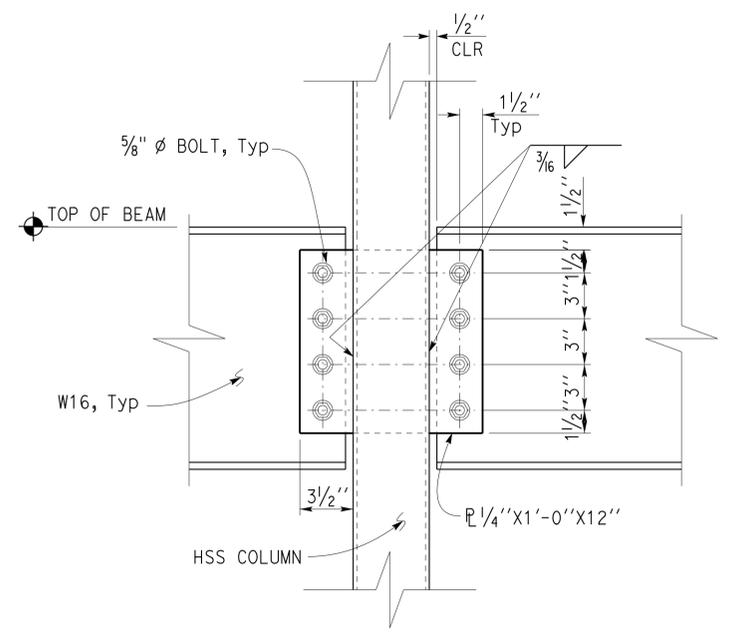
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		225	371

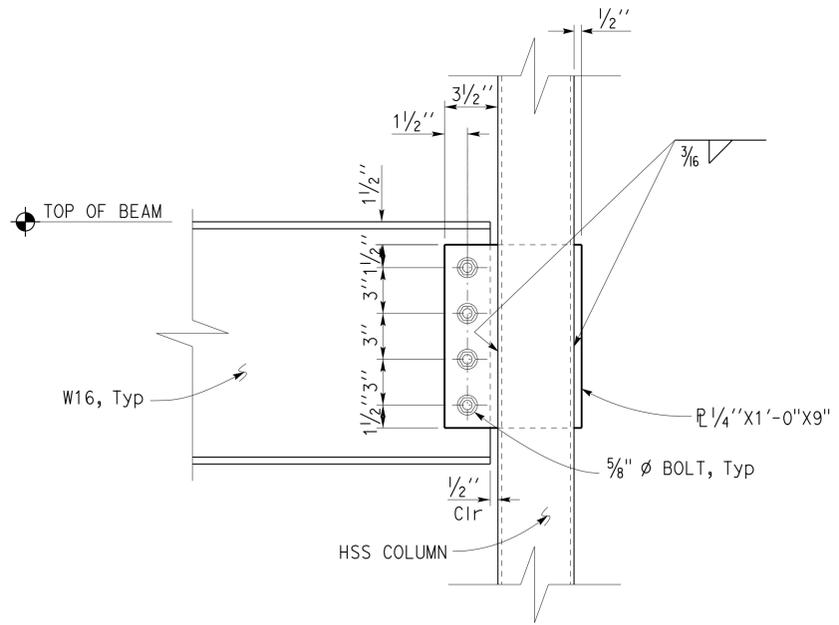
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3-24-14 PLANS APPROVAL DATE		
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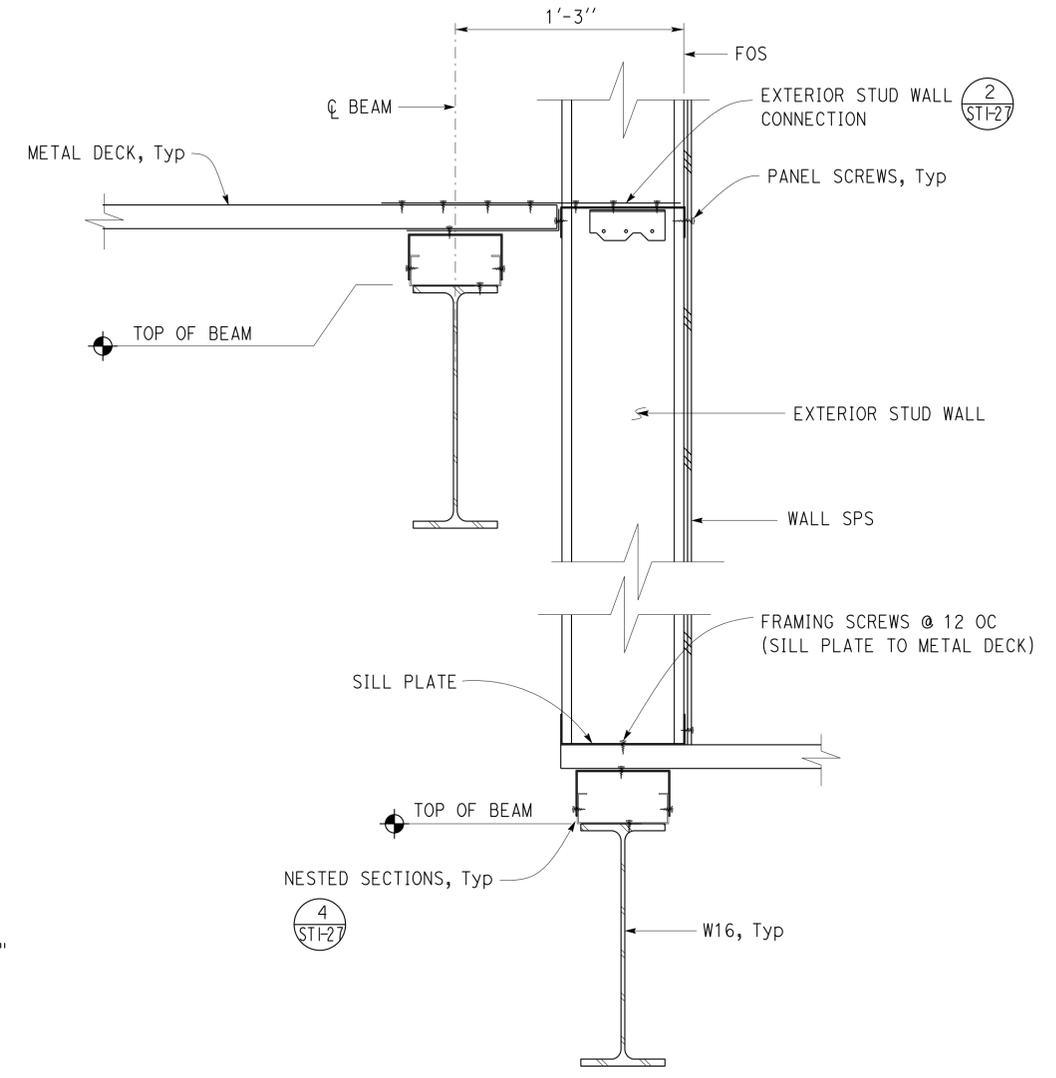
**1 ROOF SECTION**  
Scale 2" = 1' - 0"



**2 BEAM TO COLUMN CONNECTION**  
Scale 2" = 1' - 0"



**3 BEAM TO COLUMN CONNECTION**  
Scale 2" = 1' - 0"



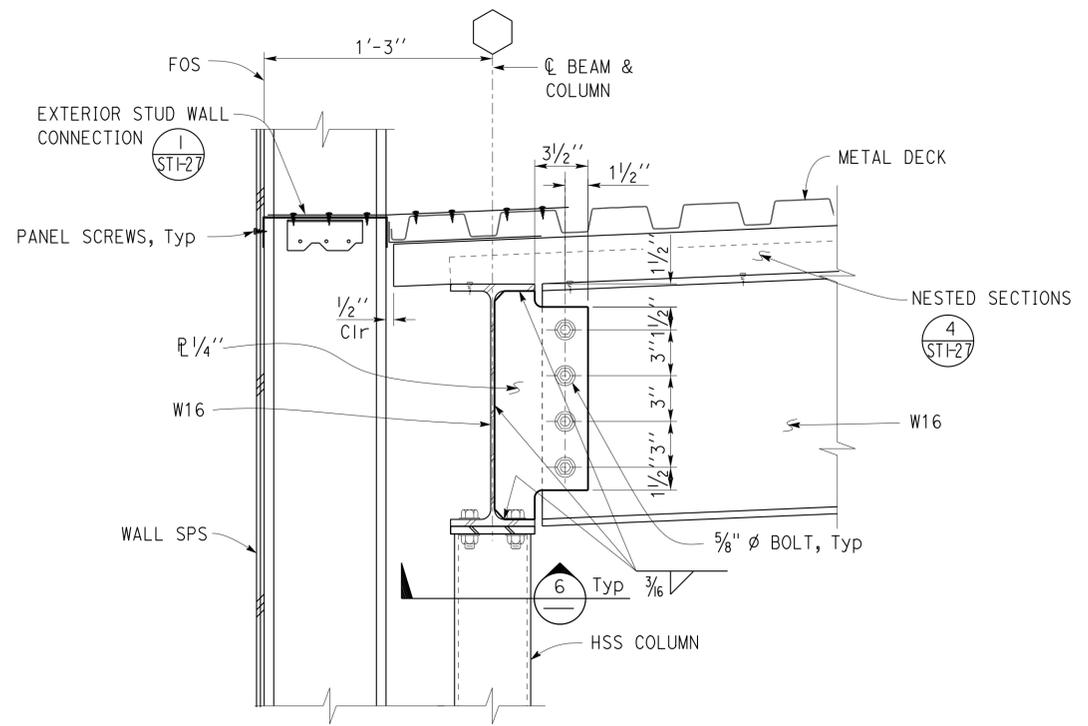
**4 ROOF SECTION**  
Scale 2" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-23
				33M5785		
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF			POST MILE	ROOF FRAMING DETAILS NO. 3	
QUANTITIES BY	CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
0 1 2 3				07-18-13		06-07-13 06-17-13 06-18-13 06-20-13 06-26-13 06-27-13 07-11-13

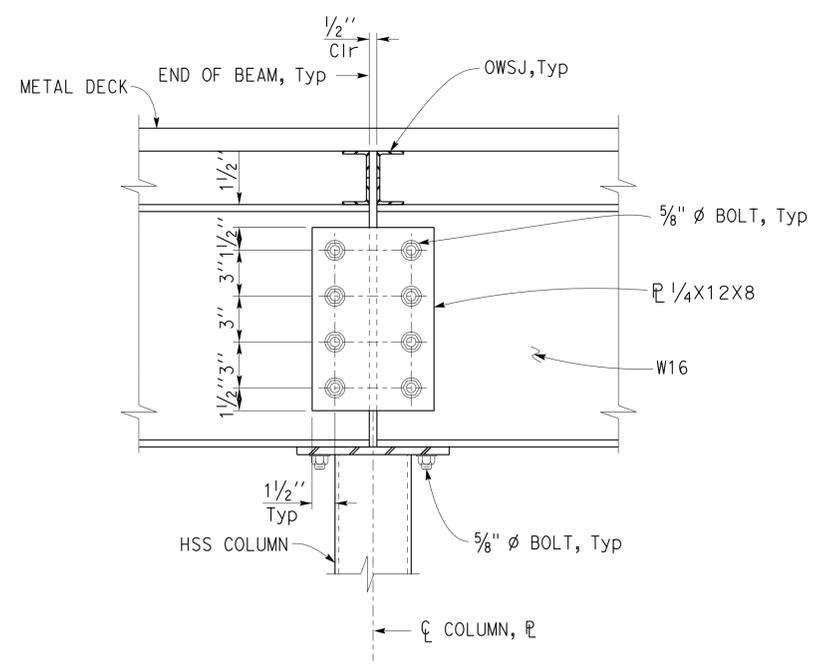
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		226	371

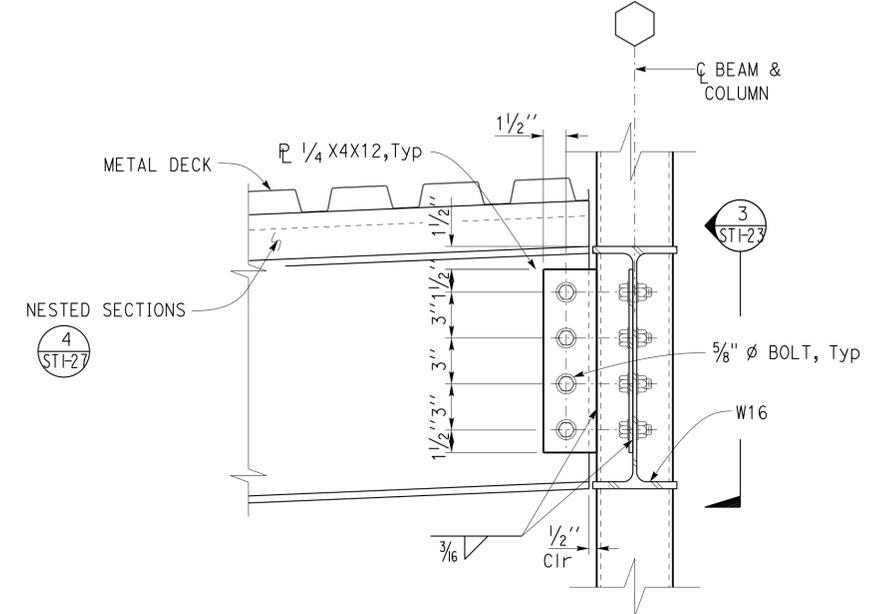
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3-24-14 PLANS APPROVAL DATE		
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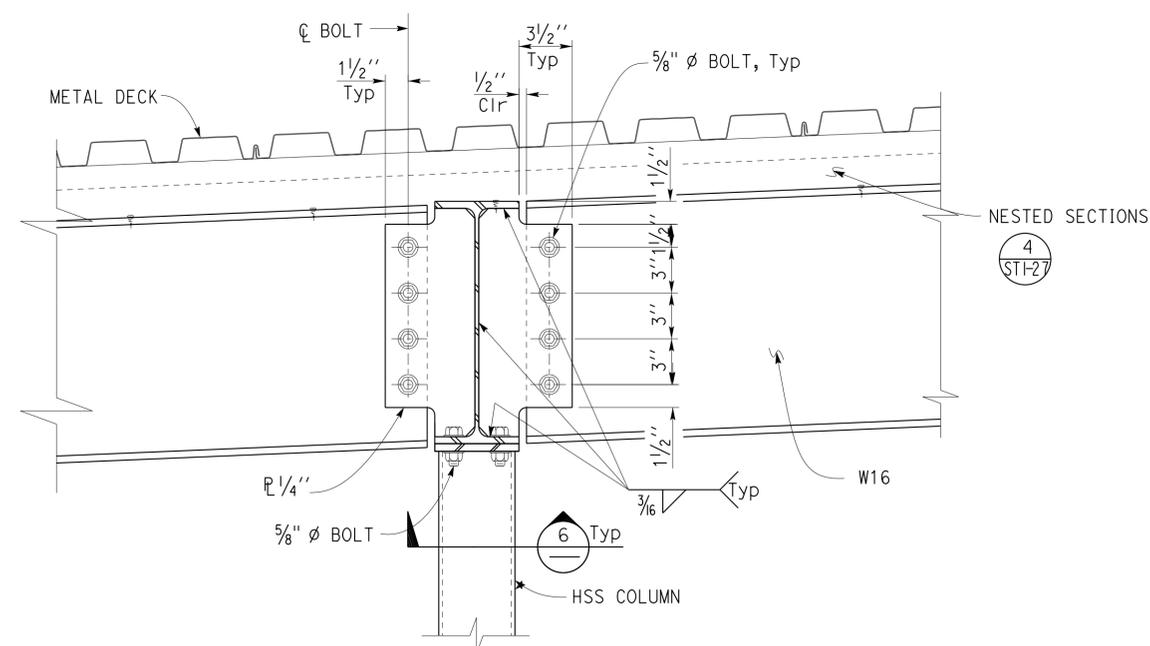
**1 BEAM TO BEAM CONNECTION**  
Scale 2'' = 1' - 0''



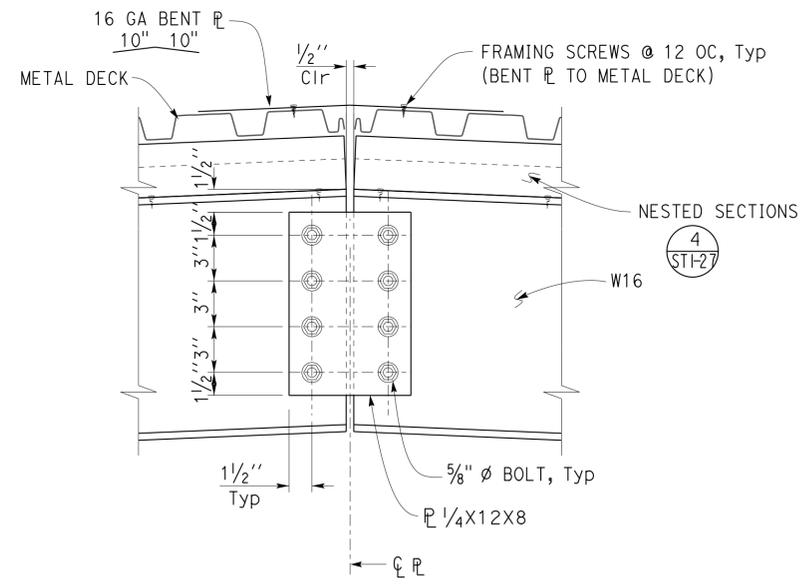
**3 BEAM TO BEAM CONNECTION**  
Scale 2'' = 1' - 0''



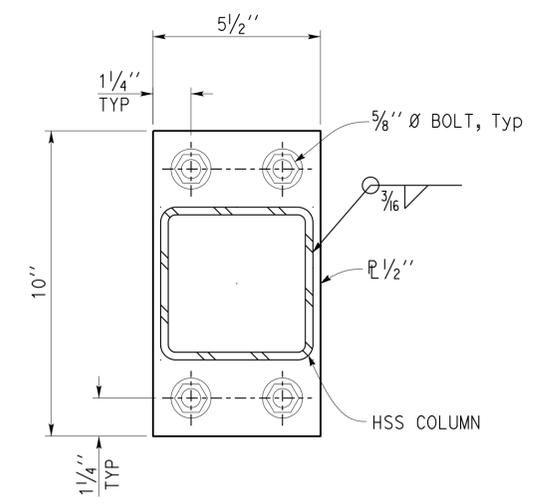
**5 BEAM TO COLUMN CONNECTION DETAIL**  
Scale 2'' = 1' - 0''



**2 BEAM TO BEAM CONNECTION**  
Scale 2'' = 1' - 0''



**4 BEAM RIDGE CONNECTION**  
Scale 2'' = 1' - 0''



**6 TYPICAL COLUMN CAP DETAIL**  
SCALE 4'' = 1' - 0''

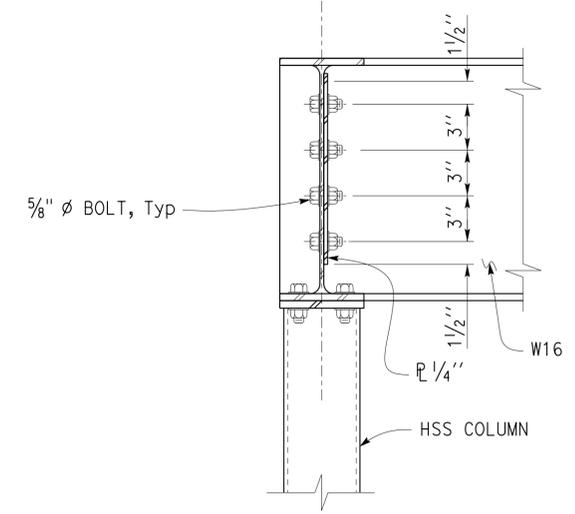
DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-24
	DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF			33M5785		
QUANTITIES	BY	CHECKED	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE	ROOF FRAMING DETAILS NO. 4	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13						07-11-13 07-18-13 07-23-13 06-08-13 06-18-13 06-28-13 06-27-13 07-03-13	

30-APR-2014 10:24

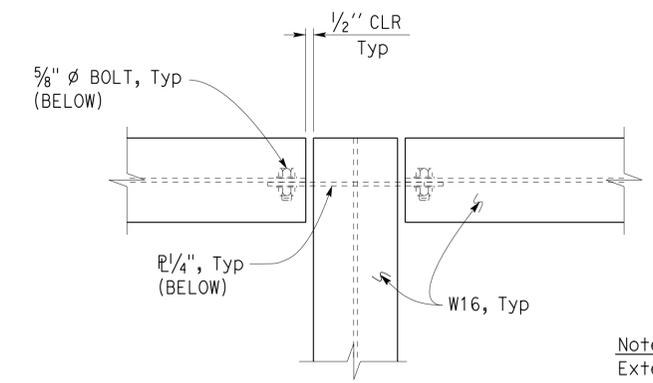
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		227	371

<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>David P. Damiano</i> INGRID P. ICASIANO Approval date: 02-11-14		
Brian T. Sutliff REGISTERED CIVIL ENGINEER DATE: 2-21-14		
3-24-14 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		

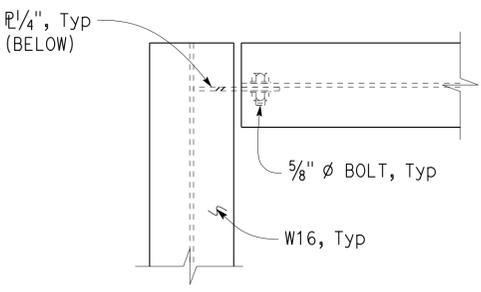


**1 BEAM TO BEAM CONNECTION**  
Scale 2" = 1' - 0"



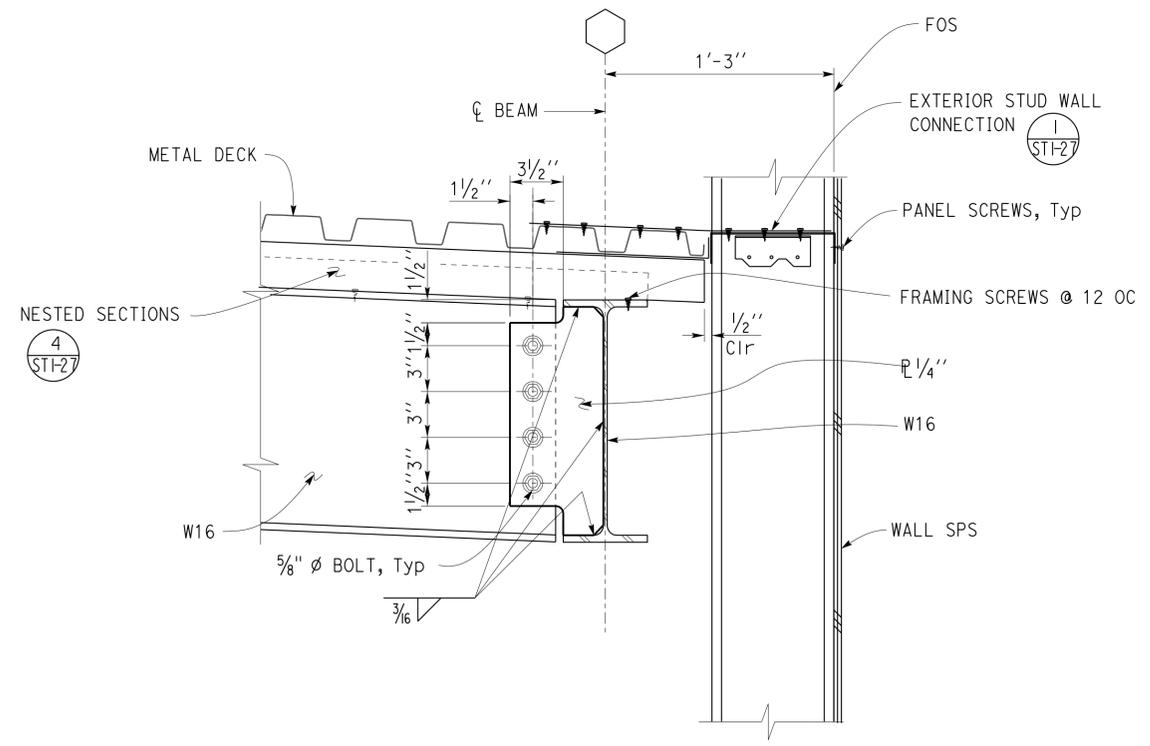
**3 BEAM TO BEAM CONNECTION**  
Scale 2" = 1' - 0"

Note:  
Exterior Wall and Connections not shown for clarity.

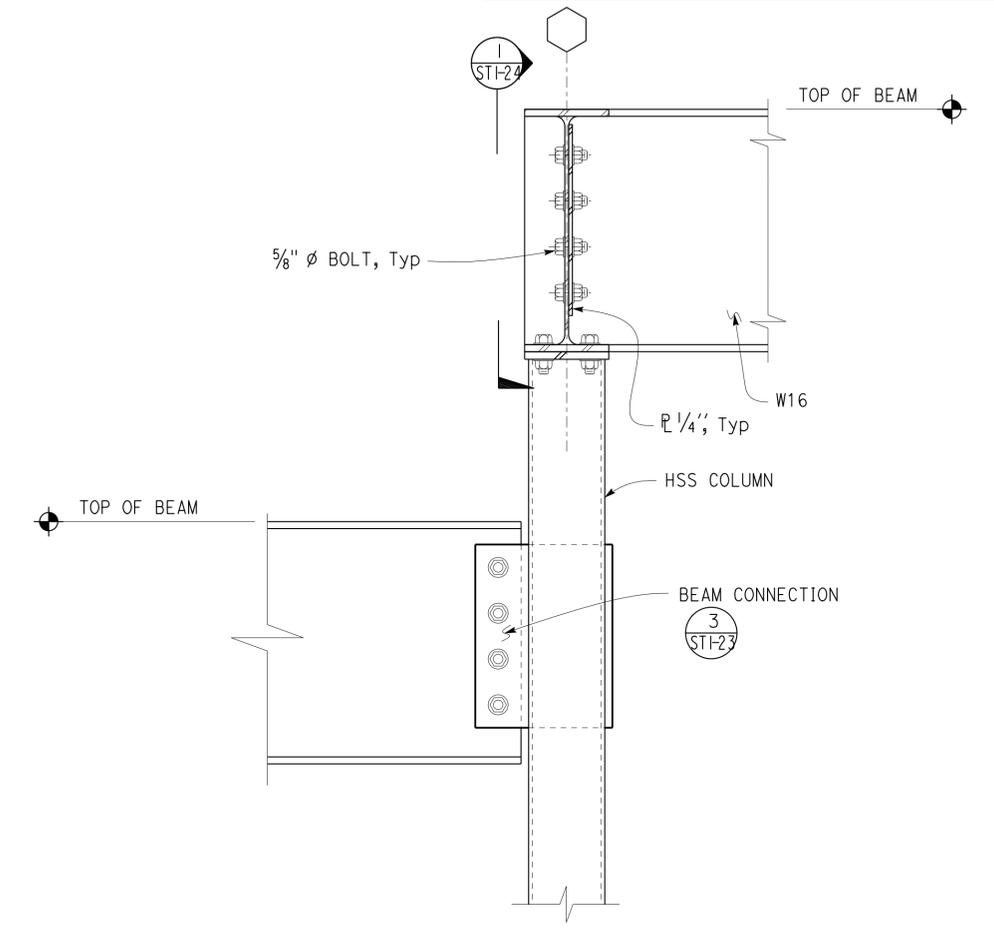


Note:  
Exterior Wall and Connections not shown for clarity.

**2 BEAM TO BEAM CONNECTION**  
Scale 2" = 1' - 0"



**4 BEAM TO BEAM CONNECTION**  
Scale 2" = 1' - 0"

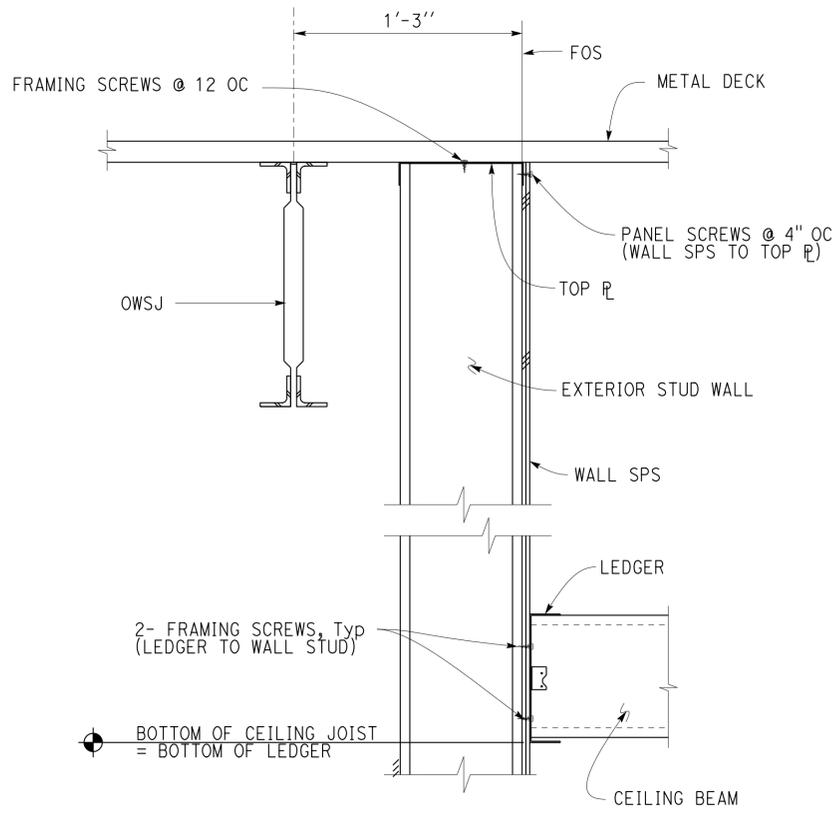


Note:  
Exterior Wall and Connections, and Metal Deck not shown for clarity.

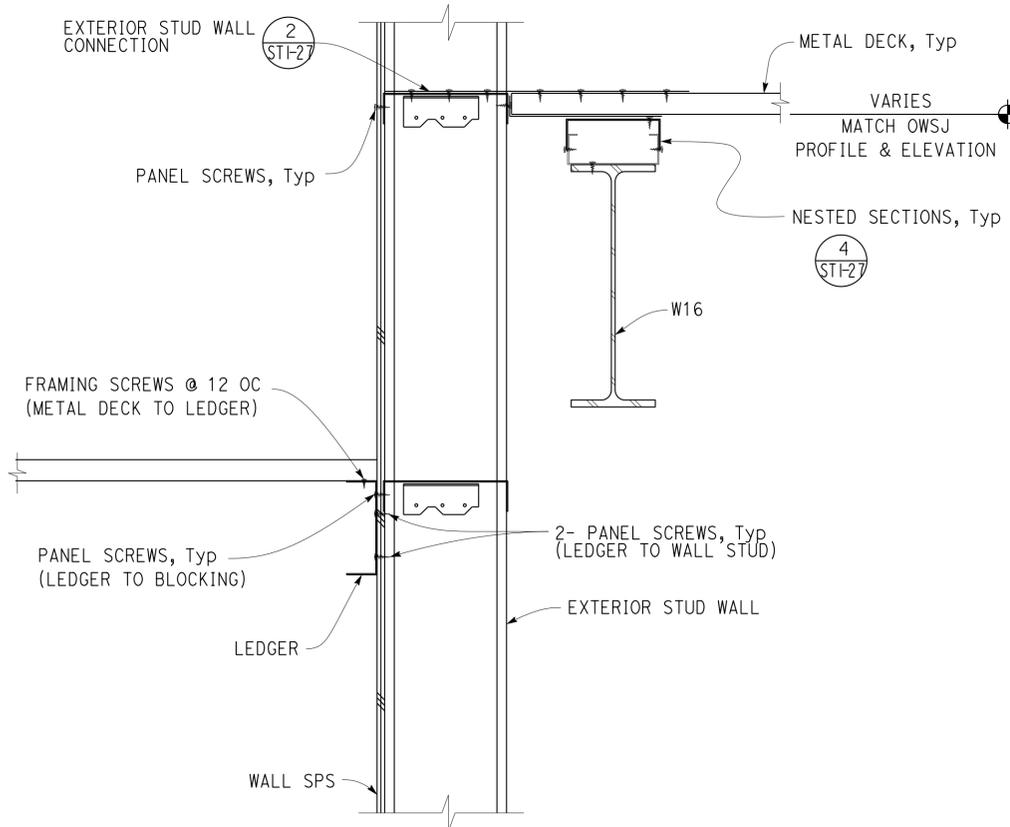
**5 BEAM TO BEAM CONNECTION**  
Scale 2" = 1' - 0"

DESIGN	BY	JUSTIN UYEHARA	CHECKED	BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE ROOF FRAMING DETAILS NO. 5	SHEET ST1-25
	DETAILS	BY	PETE VON SAVOYE	CHECKED					
QUANTITIES	BY		CHECKED						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	
UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331					DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial - CCSC Rev. 01/13					05-21-13 06-06-13 06-18-13 06-20-13 06-27-13 07-03-13 07-11-13 07-18-13 07-23-13			SHEET OF	

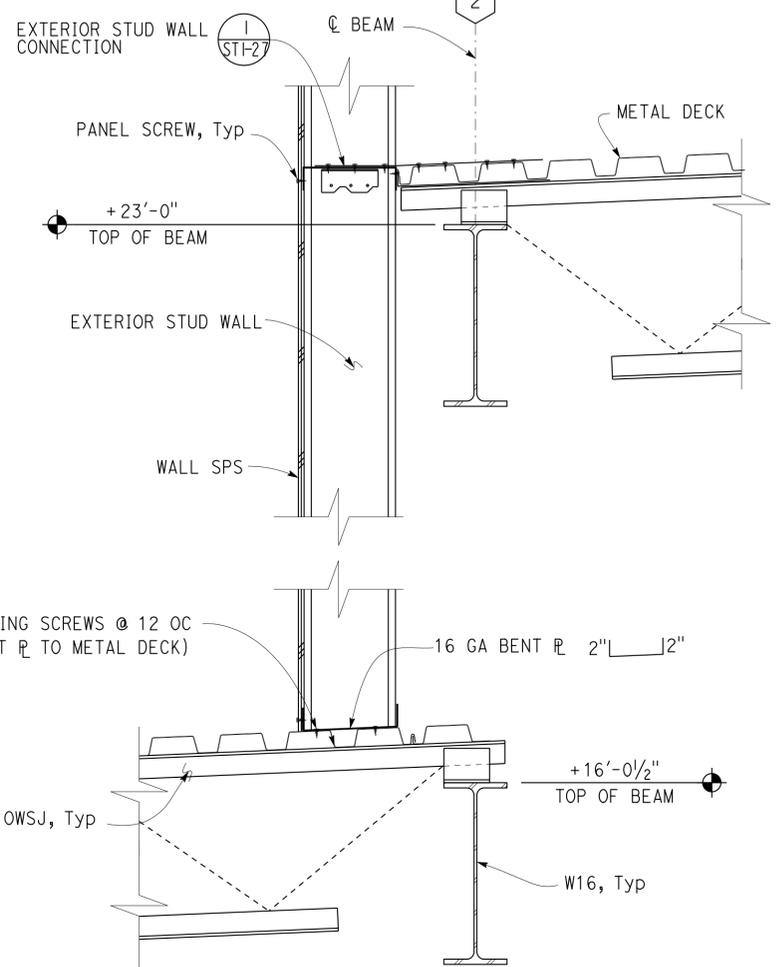
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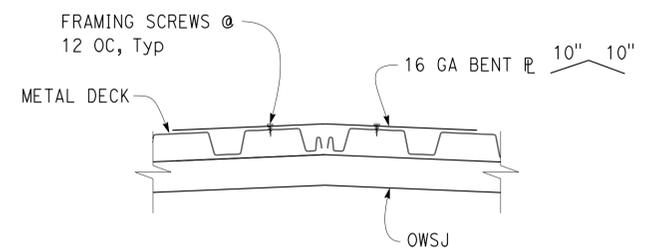
**1 ROOF SECTION**  
Scale 2" = 1' - 0"



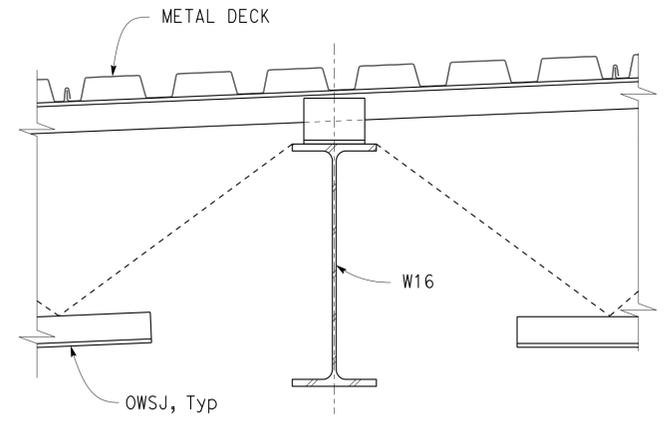
**2 ROOF SECTION**  
Scale 2" = 1' - 0"



**5 ROOF SECTION**  
Scale 1 1/2" = 1' - 0"



**3 RIDGE DETAIL**  
Scale 2" = 1' - 0"



**4 OWSJ TO BEAM CONNECTION**  
Scale 2" = 1' - 0"

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Angela P. Casiano*  
INGRIS P. CASIANO  
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		228	371

3-24-14  
PLANS APPROVAL DATE

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DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE ROOF FRAMING DETAILS NO. 6	SHEET OF ST1-26
					POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-03-13 07-11-13 07-18-13 05-24-13 06-11-13 06-17-13 06-18-13 06-20-13 06-27-13

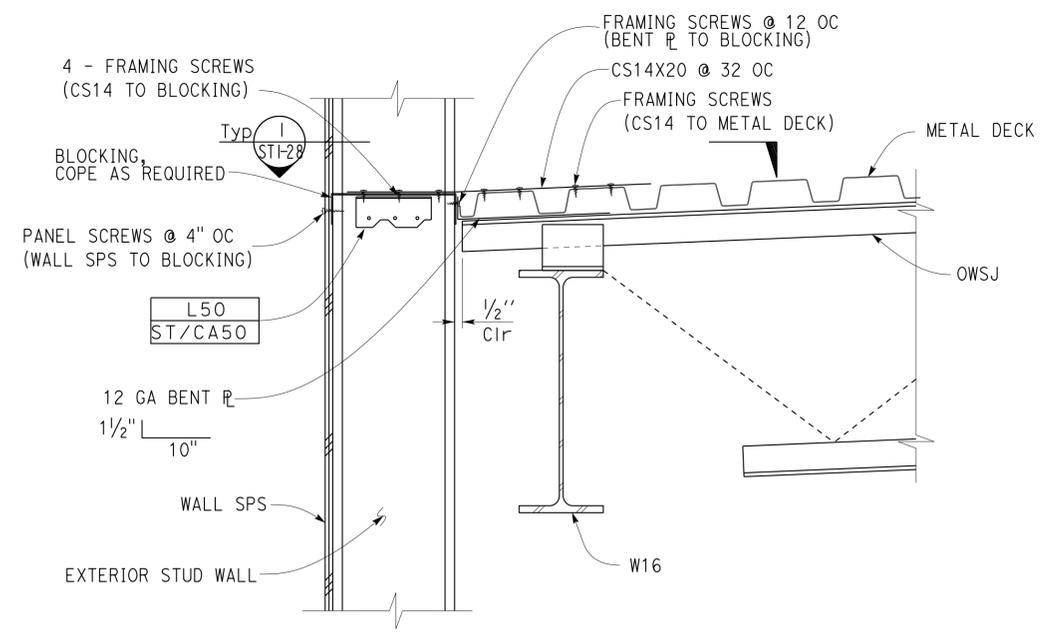
TAEWW Imperial - CCSC Rev. 01/13

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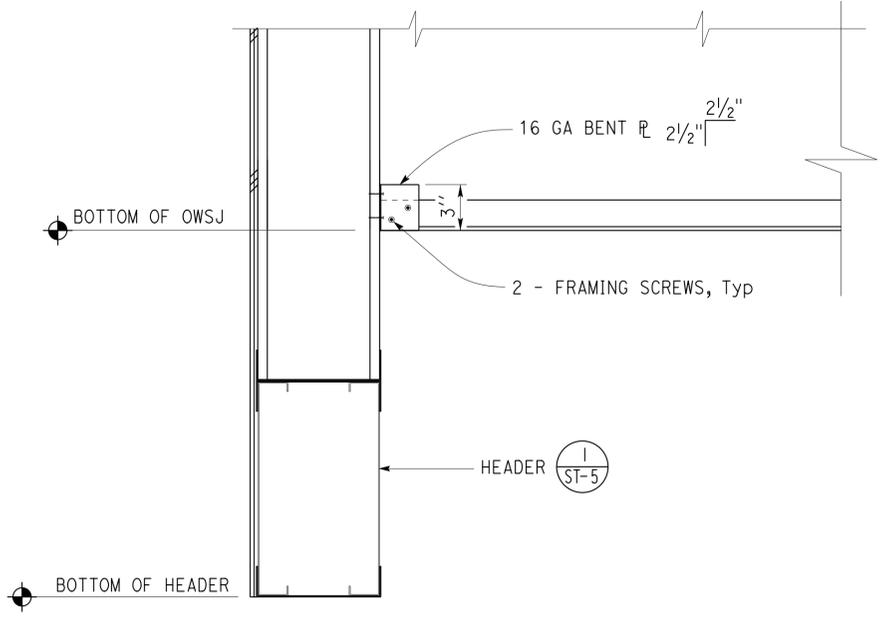
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		229	371

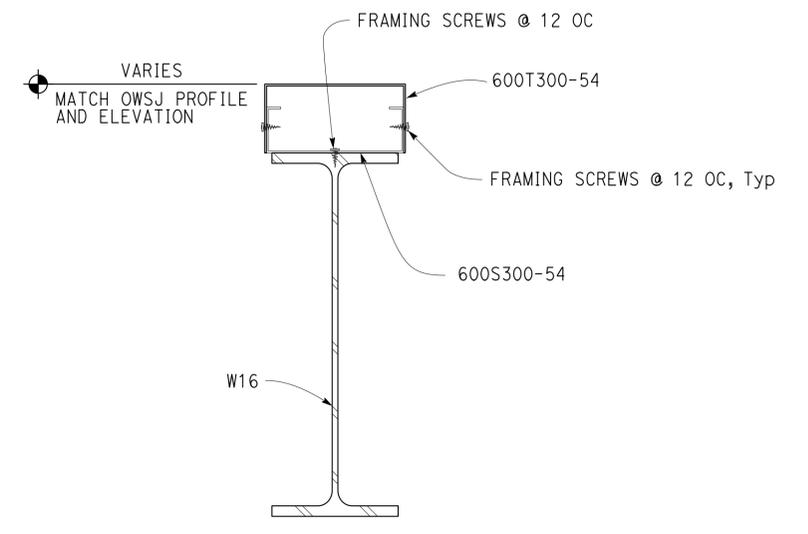
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Castano</i> INGRID P. CASTANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
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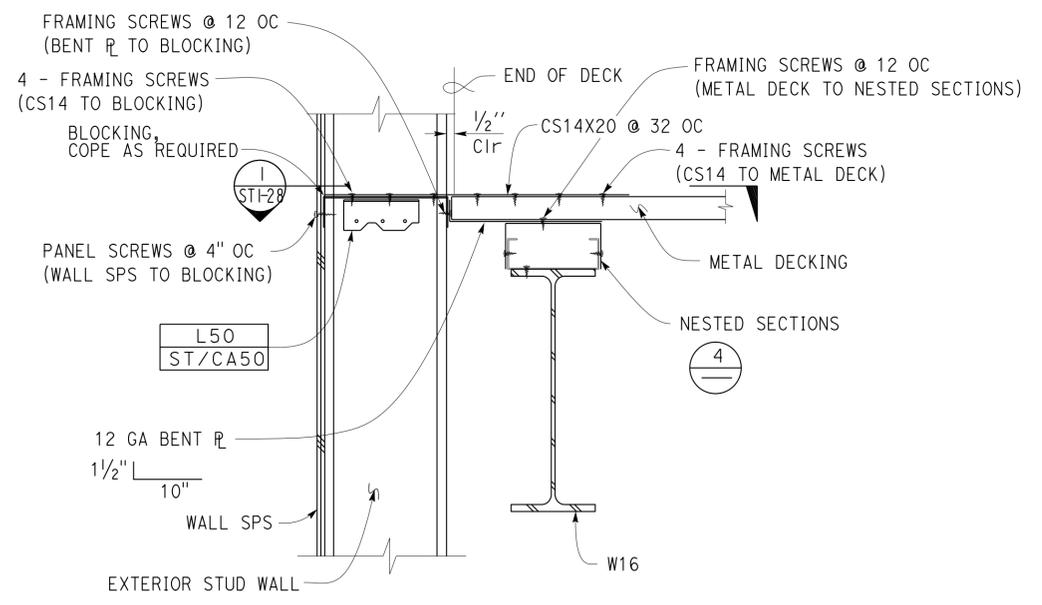
**1 EXTERIOR STUD WALL CONNECTION**  
Scale 2" = 1' - 0"



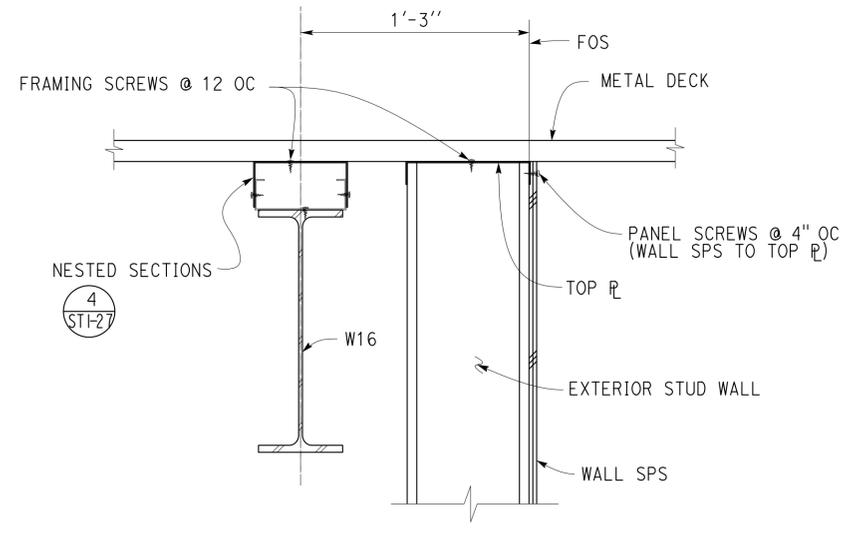
**3 EXTERIOR STUD WALL DETAIL**  
Scale 2" = 1' - 0"



**4 NESTED SECTIONS**  
Scale 3" = 1' - 0"



**2 EXTERIOR STUD WALL CONNECTION**  
Scale 2" = 1' - 0"



**5 EXTERIOR STUD WALL CONNECTION**  
Scale 2" = 1' - 0"

DESIGN	BY	JUSTIN UYEHARA	CHECKED	BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No.	33M5785	<b>SFOBB WAREHOUSE</b> ROOF FRAMING DETAILS NO. 7	SHEET	ST1-27
	DETAILS	BY	PETE VON SAVOYE	CHECKED			BRIAN SUTLIFF	POST MILE			
QUANTITIES	BY		CHECKED								

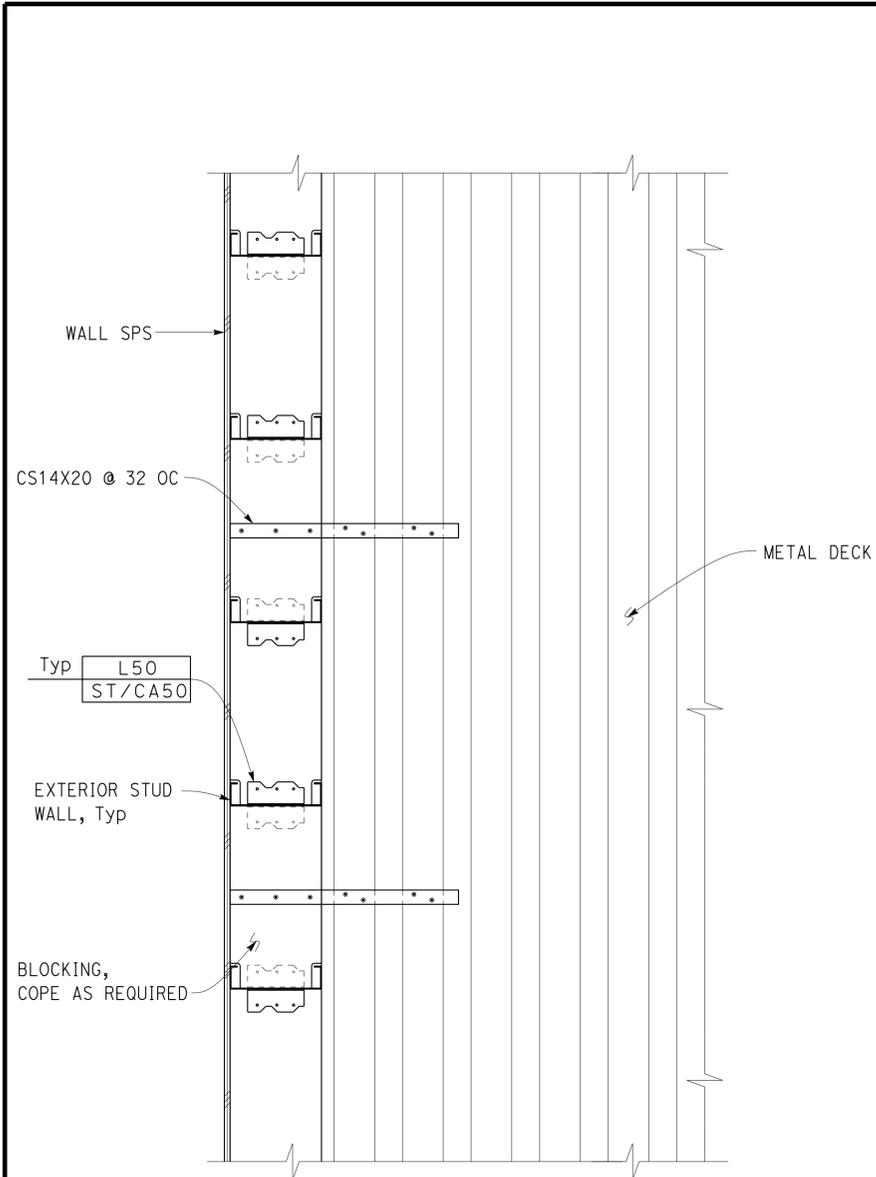
  

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3
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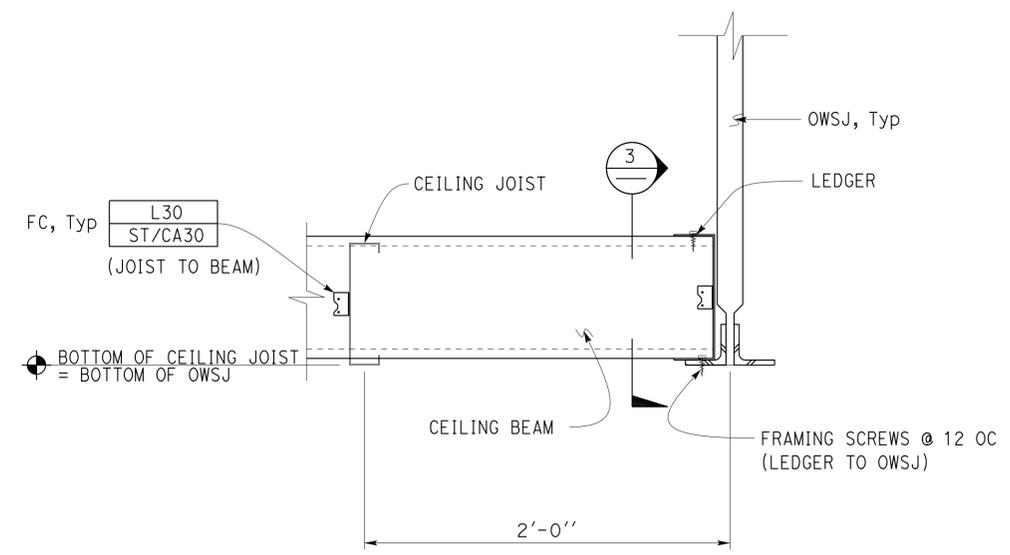
  

UNIT: 3599	CONTRACT No.: 000001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
PROJECT NUMBER & PHASE: 04130001331			06-20-13   06-27-13   07-05-13   07-11-13   07-18-13   05-21-13   06-11-13   06-17-13   06-19-13

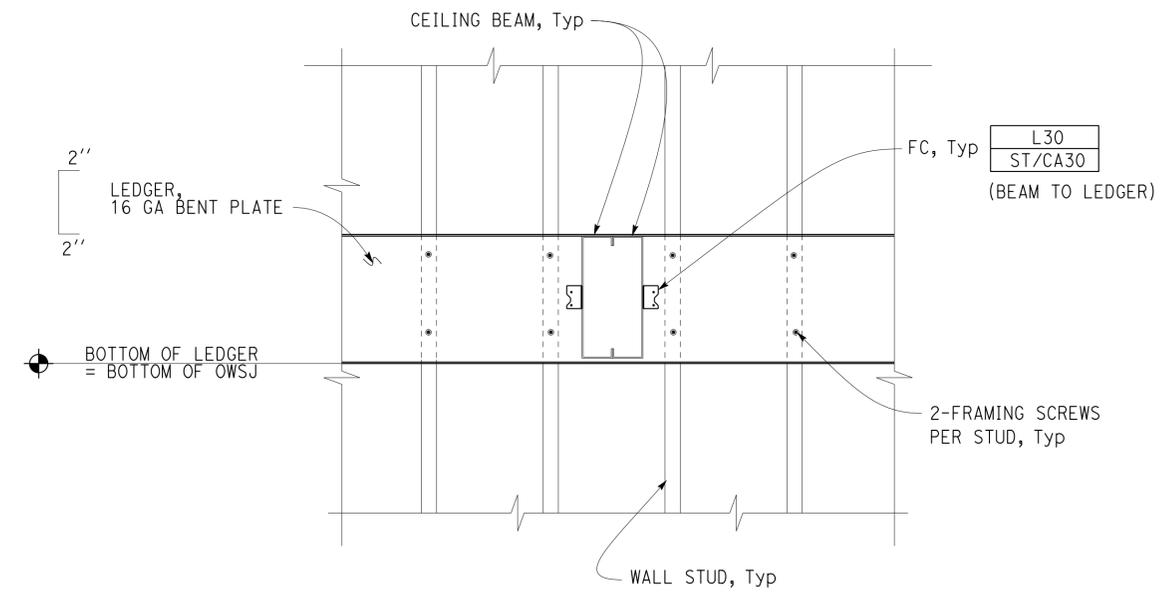
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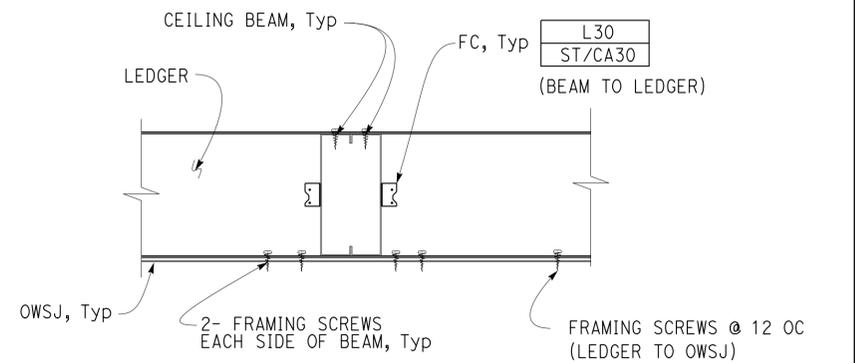
**1 EXTERIOR STUD WALL CONNECTION PLAN**  
Scale 1 1/2" = 1' - 0"



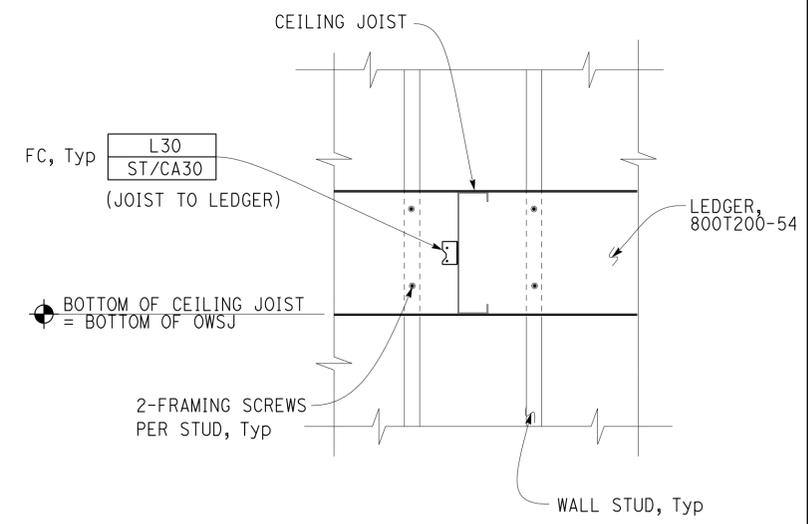
**2 CEILING CONNECTION**  
Scale 2" = 1' - 0"



**4 CEILING CONNECTION**  
Scale 2" = 1' - 0"



**3 CEILING CONNECTION**  
Scale 2" = 1' - 0"



**5 CEILING CONNECTION**  
Scale 2" = 1' - 0"

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		230	371

3-24-14  
PLANS APPROVAL DATE

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DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF
DETAILS	BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF
QUANTITIES	BY	CHECKED

<b>STATE OF CALIFORNIA</b>	
DEPARTMENT OF TRANSPORTATION	

<b>DIVISION OF ENGINEERING SERVICES</b>	
<b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	

BRIDGE No.	33M5785	<b>SFOBB WAREHOUSE</b>	ROOF FRAMING DETAILS NO. 8	SHEET <b>ST1-28</b>
POST MILE				

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		231	371

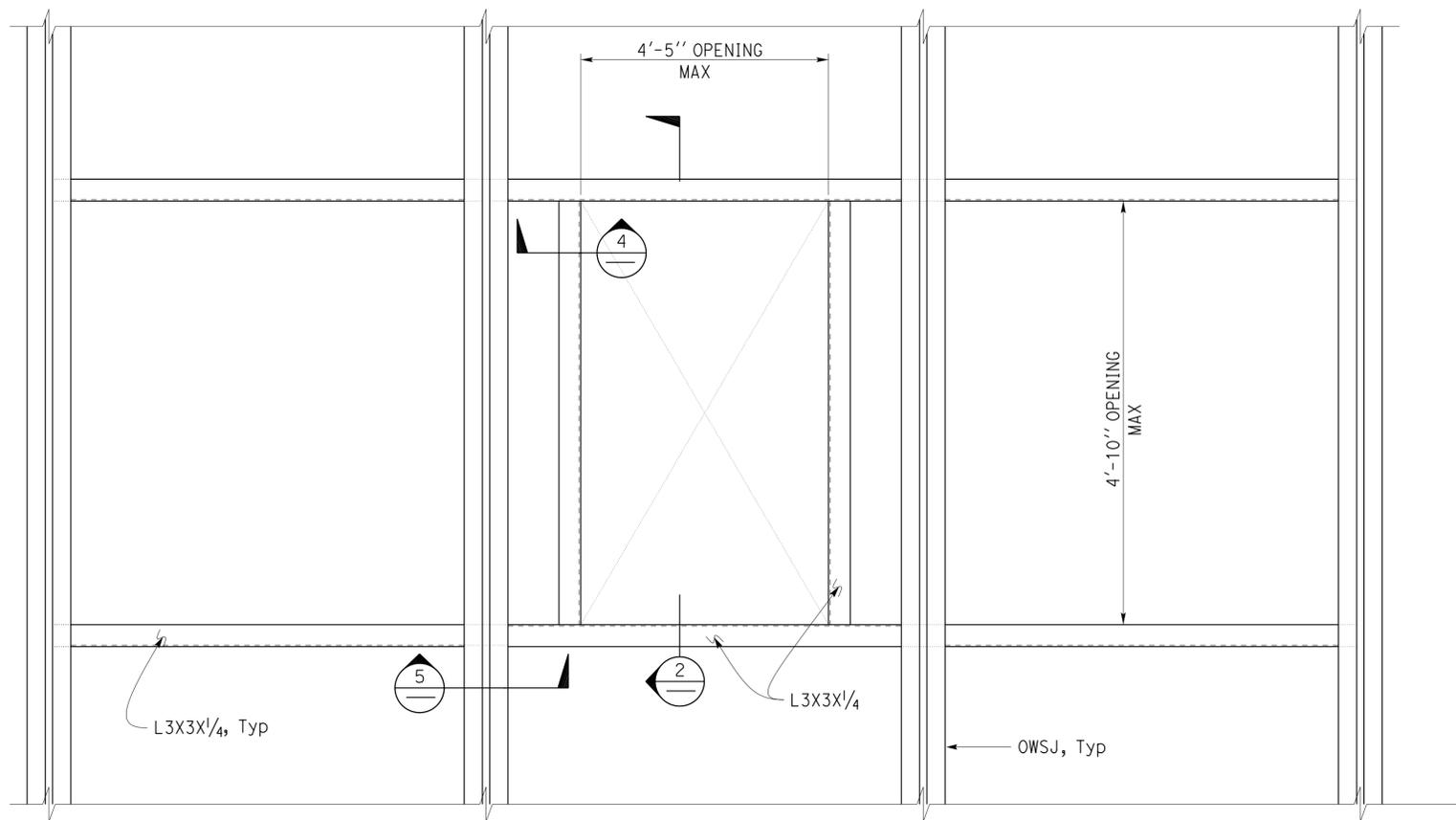
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		2-21-14 DATE
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Brian T. Sutliff REGISTERED CIVIL ENGINEER No. 3862 Exp. 3-31-16 STATE OF CALIFORNIA
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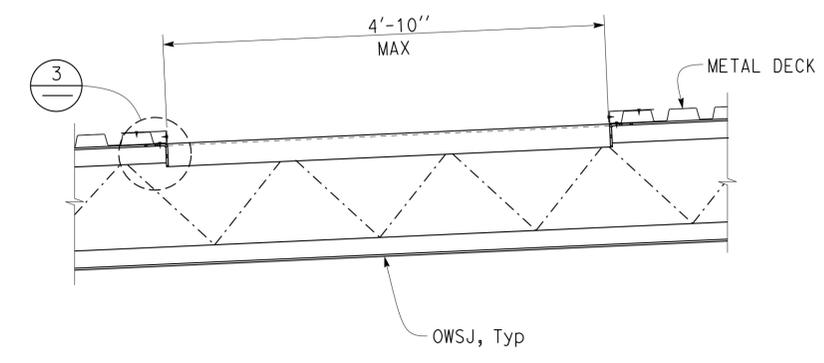
  

3-24-14
PLANS APPROVAL DATE
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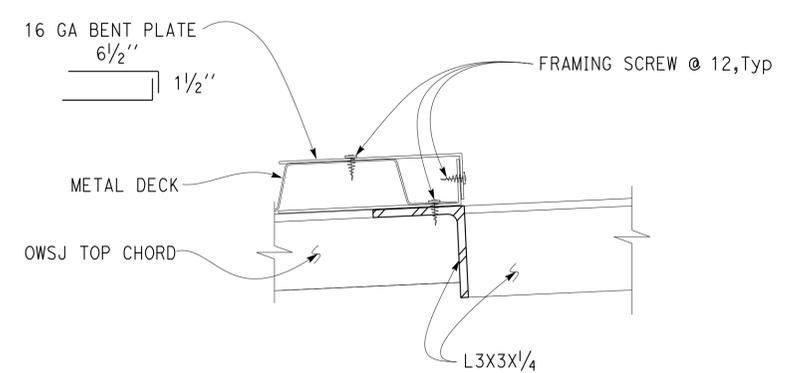


- Notes:
1. Roof deck not shown for clarity.
  2. For opening dimensions and locations, see architectural plans.

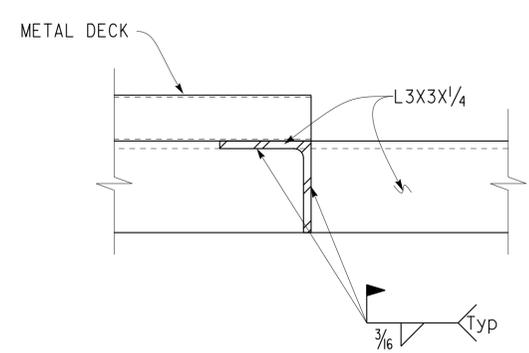
**1 ROOF OPENING PLAN**  
SCALE 1" = 1' - 0"



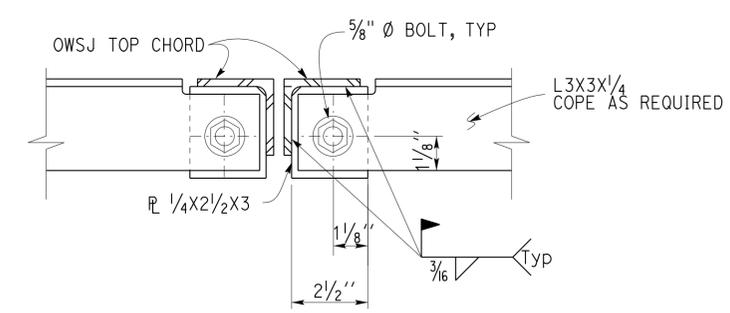
**2 ROOF OPENING SECTION**  
SCALE 1" = 1' - 0"



**3 FRAME SUPPORT DETAIL**  
SCALE 4" = 1' - 0"



**4 ANGLE CONNECTION**  
SCALE 4" = 1' - 0"



**5 ANGLE CONNECTION**  
SCALE 4" = 1' - 0"

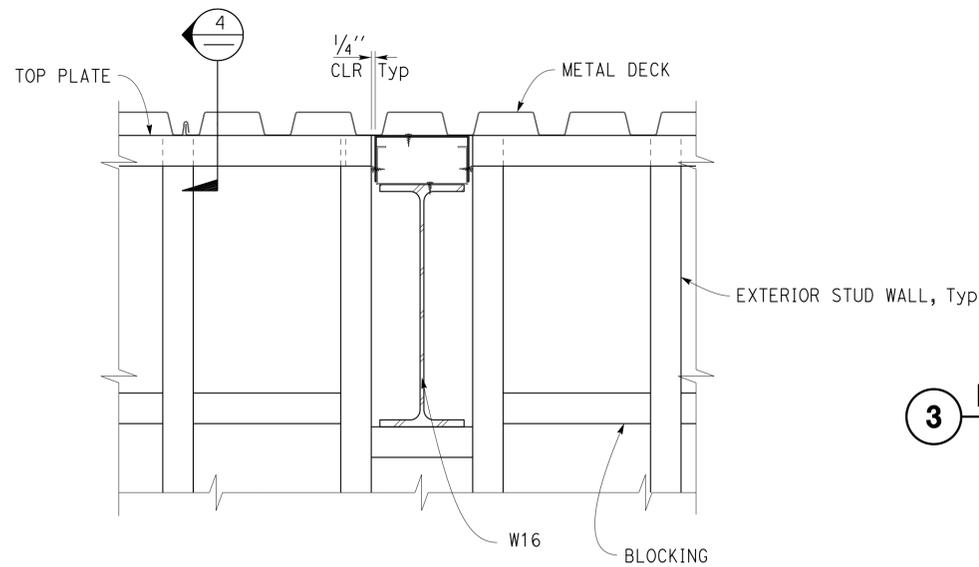
DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> ROOF OPENING DETAILS	SHEET ST1-29
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF		POST MILE		
QUANTITIES BY	CHECKED				

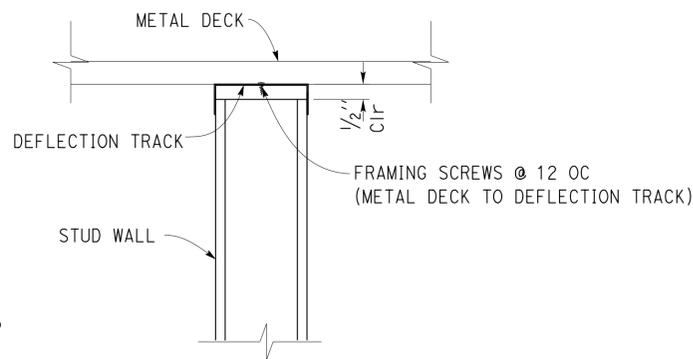
UNIT: 3599 CONTRACT No.: 000001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
PROJECT NUMBER & PHASE: 04130001331		05-28-13 05-31-13 06-12-13 07-11-13	

TAEWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 D:\CADUser\Projects\Dist\_04\SFOBB\_maintenance\combined\st\04-18-13\expd\fe\st1\_29.dgn

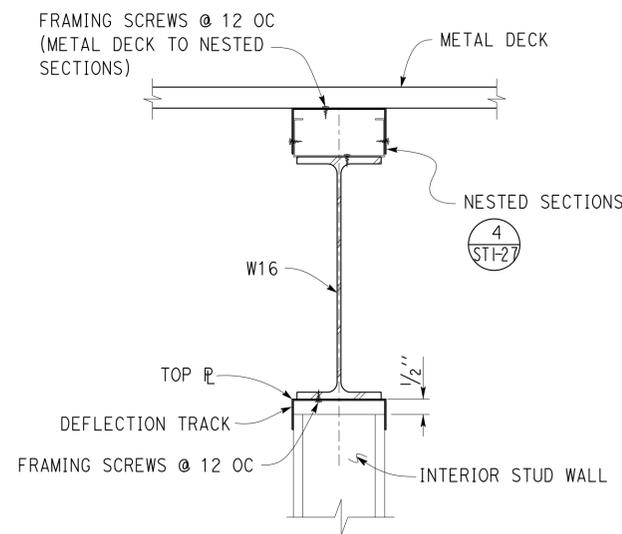
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		232	371
<i>Brian T. Sutliff</i> REGISTERED CIVIL ENGINEER			2-21-14 DATE		
3-24-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



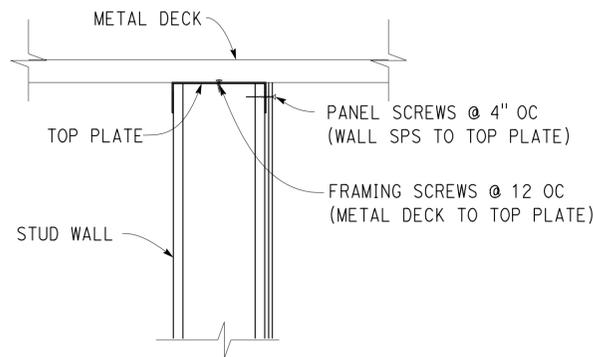
**1 EXTERIOR STUD WALL CONNECTION**  
Scale 2" = 1' - 0"



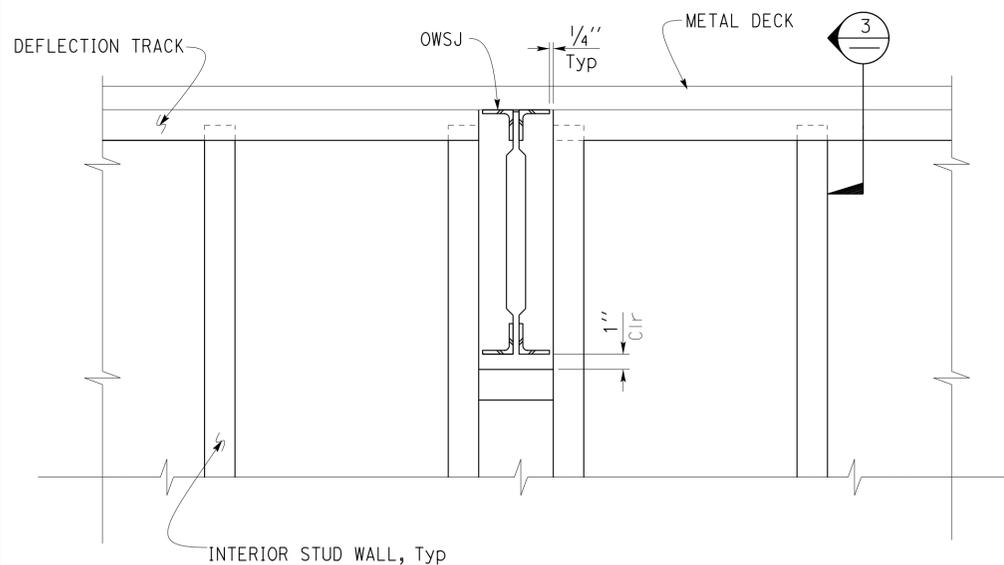
**3 NON BEARING WALL CONNECTION**  
NO SCALE



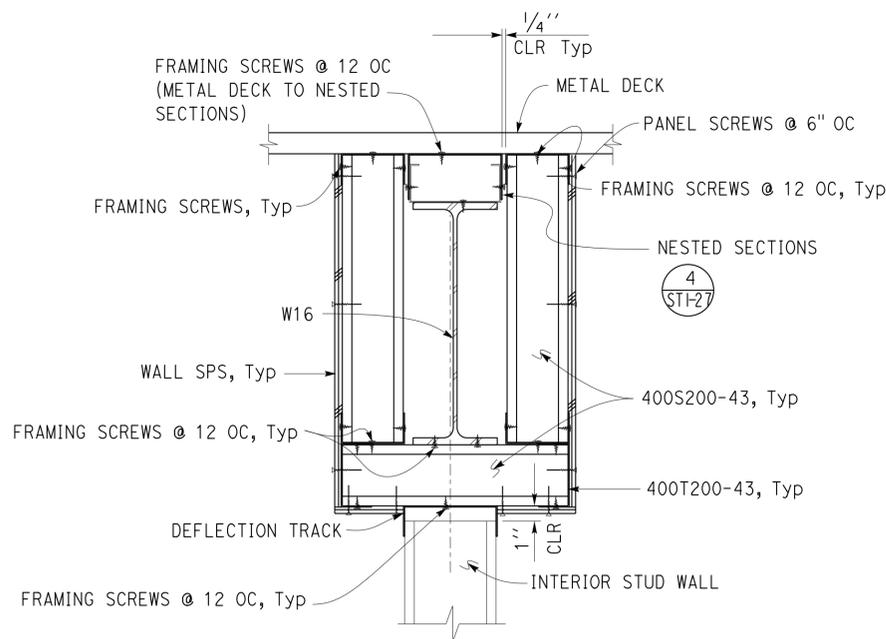
**5 NON BEARING WALL CONNECTION**  
Scale 2" = 1' - 0"



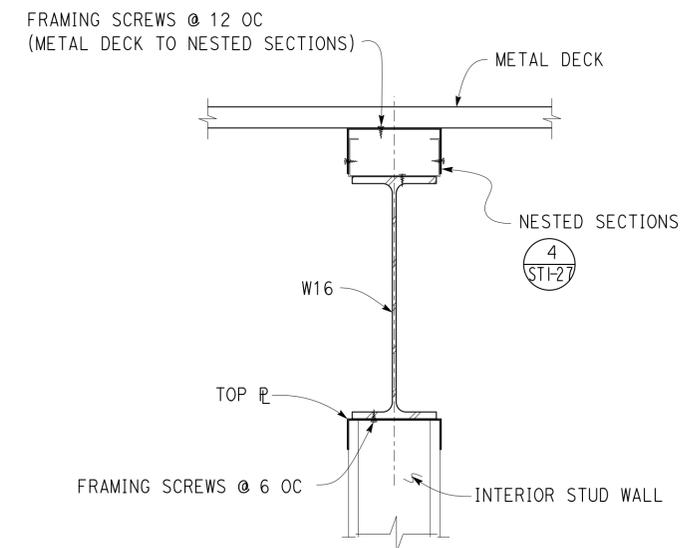
**4 EXTERIOR STUD WALL CONNECTION**  
NO SCALE



**2 NON BEARING WALL CONNECTION**  
Scale 2" = 1' - 0"



**7 NON BEARING WALL CONNECTION**  
Scale 2" = 1' - 0"



**6 INTERIOR WALL TO BEAM**  
Scale 2" = 1' - 0"

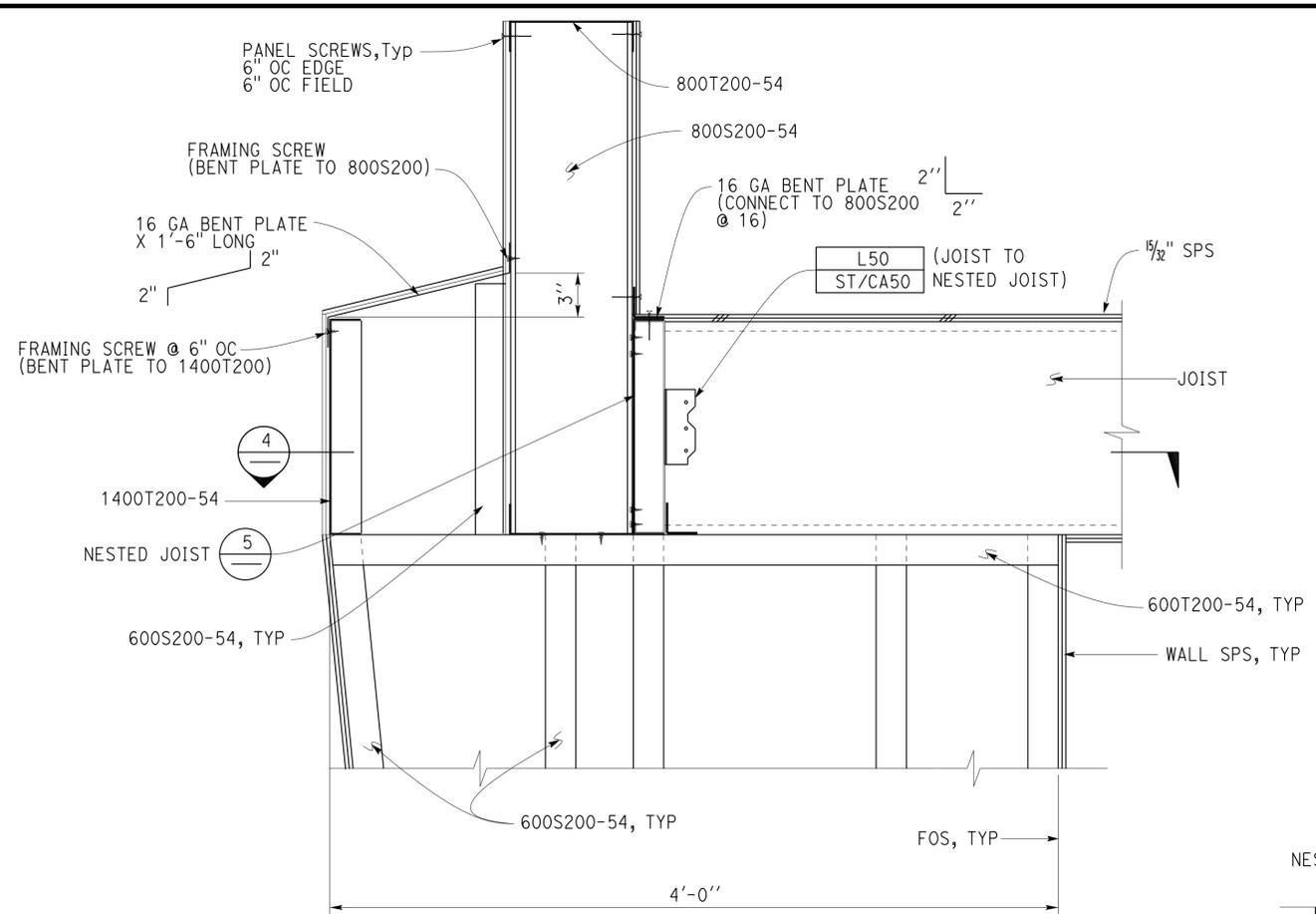
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET
				33M5785		STUD WALL CONNECTION DETAILS
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF	UNIT: 3599 CONTRACT No.: 000001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	
QUANTITIES BY	CHECKED	PROJECT NUMBER & PHASE: 04130001331	06-25-13 06-26-13 07-18-13			

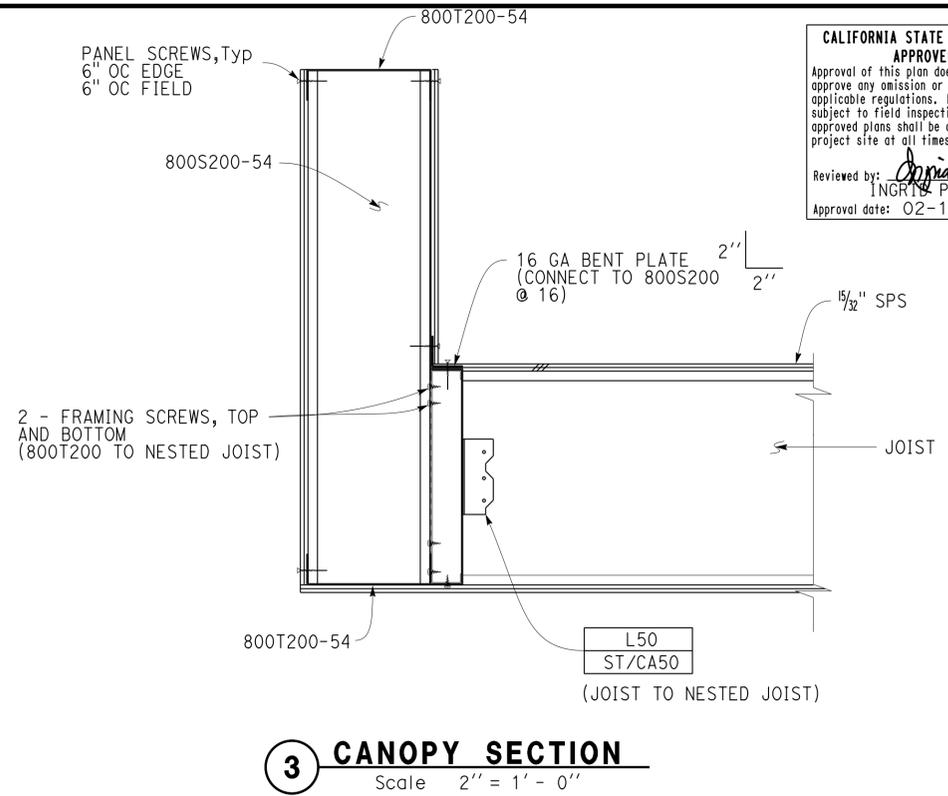
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		233	371

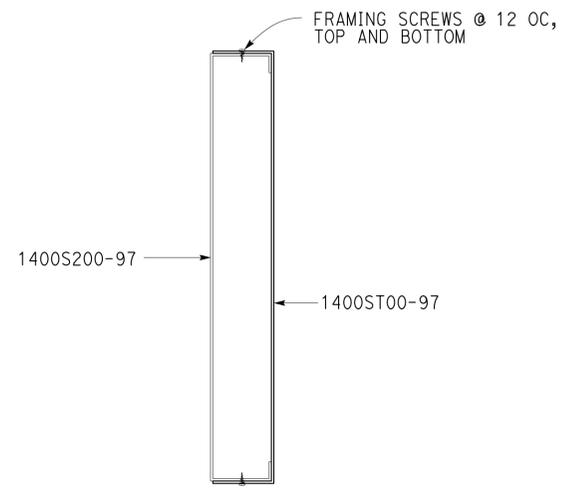
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Icastano</i> INGRID P. ICASTANO Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
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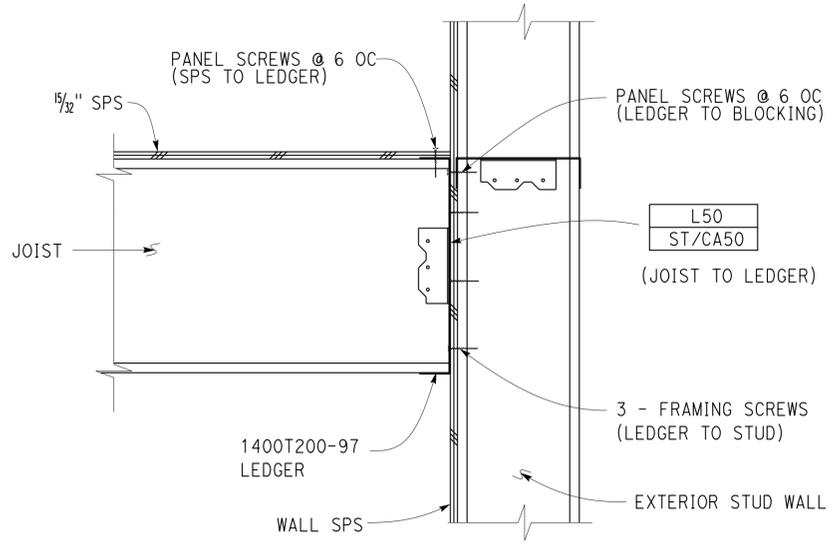
**1 CANOPY SUPPORT SECTION**  
Scale 2" = 1' - 0"



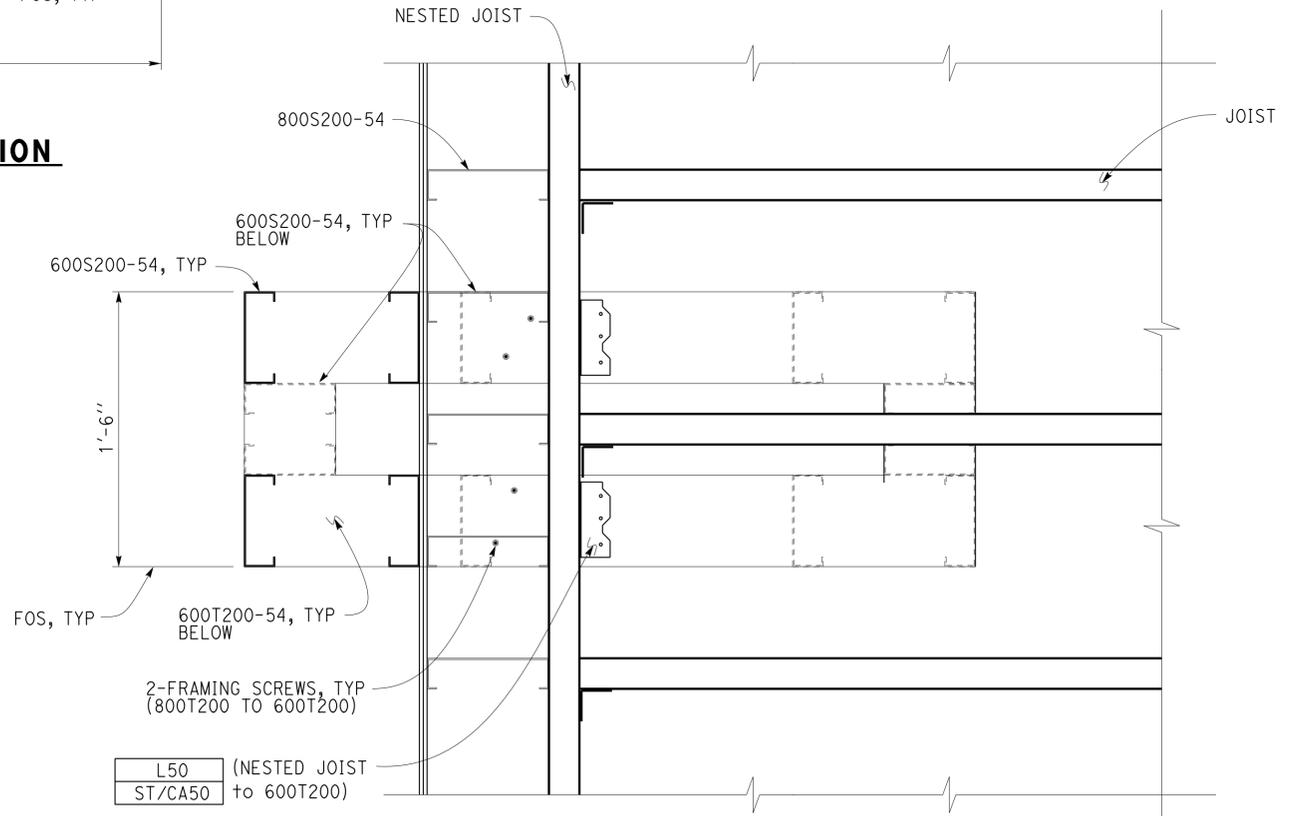
**3 CANOPY SECTION**  
Scale 2" = 1' - 0"



**5 NESTED JOIST DETAIL**  
Scale 4" = 1' - 0"



**2 CANOPY SECTION**  
Scale 2" = 1' - 0"



**4 CANOPY SUPPORT SECTION**  
Scale 2" = 1' - 0"

DESIGN	BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF
DETAILS	BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	33M5785	SFOBB WAREHOUSE	SHEET ST1-31
POST MILE			
CANOPY FRAMING DETAILS			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



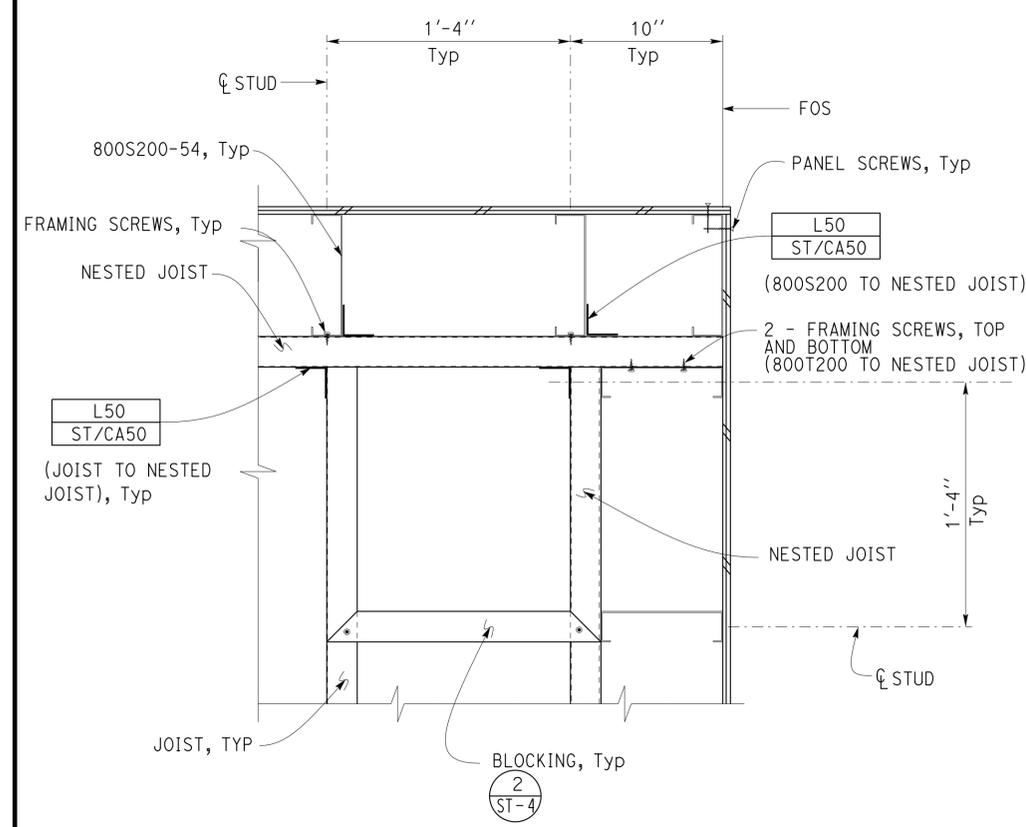
UNIT: 3599 CONTRACT No.: 000001  
PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	07-22-13 07-26-13 07-29-13	

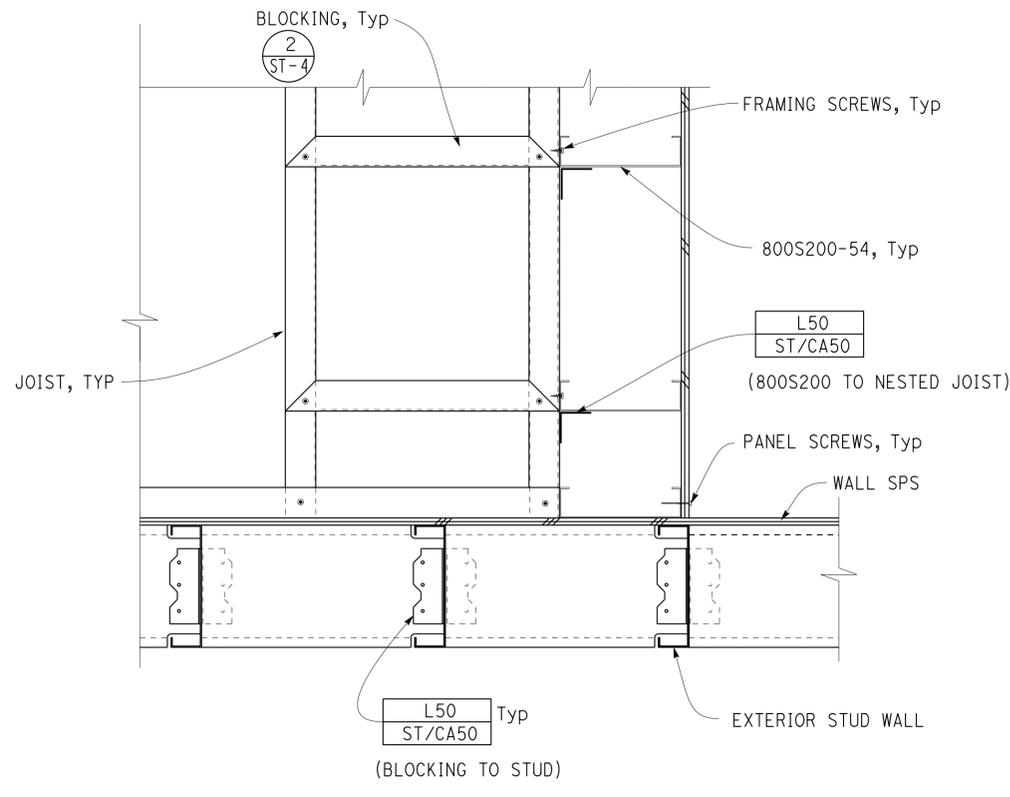
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		234	371

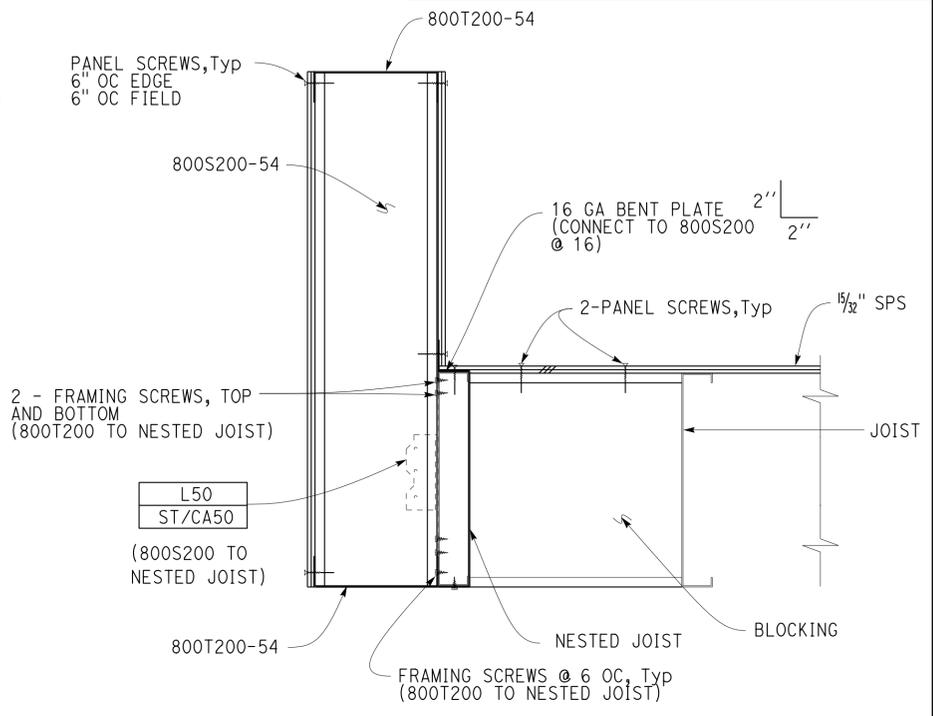
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3-24-14 PLANS APPROVAL DATE		
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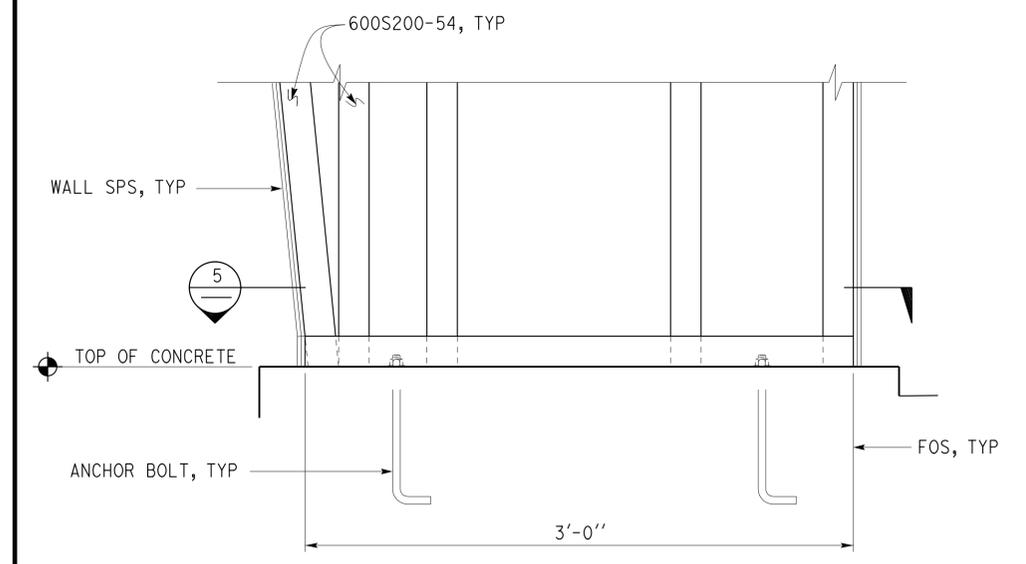
**1 PARTIAL CANOPY PLAN**  
Scale 2" = 1' - 0"



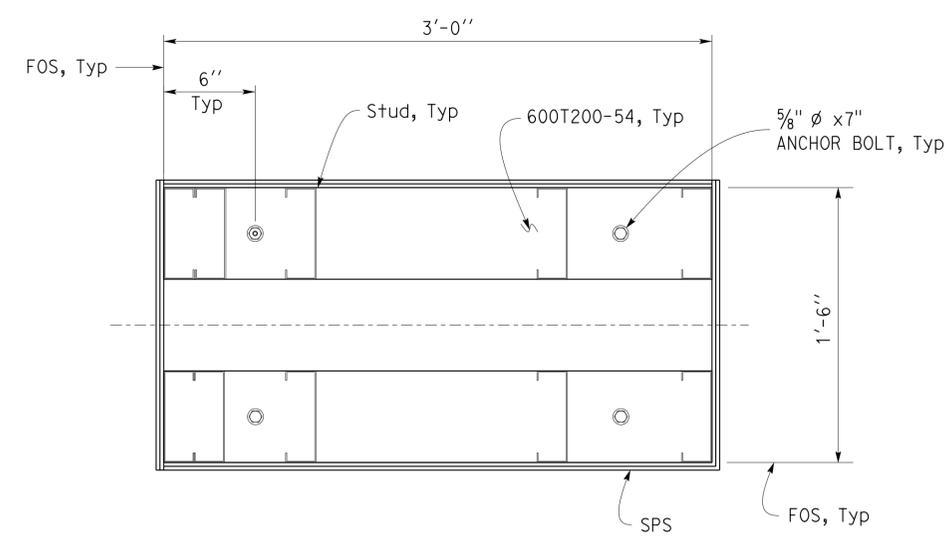
**2 ROOF CONNECTION PLAN**  
Scale 2" = 1' - 0"



**3 CANOPY SECTION**  
Scale 2" = 1' - 0"



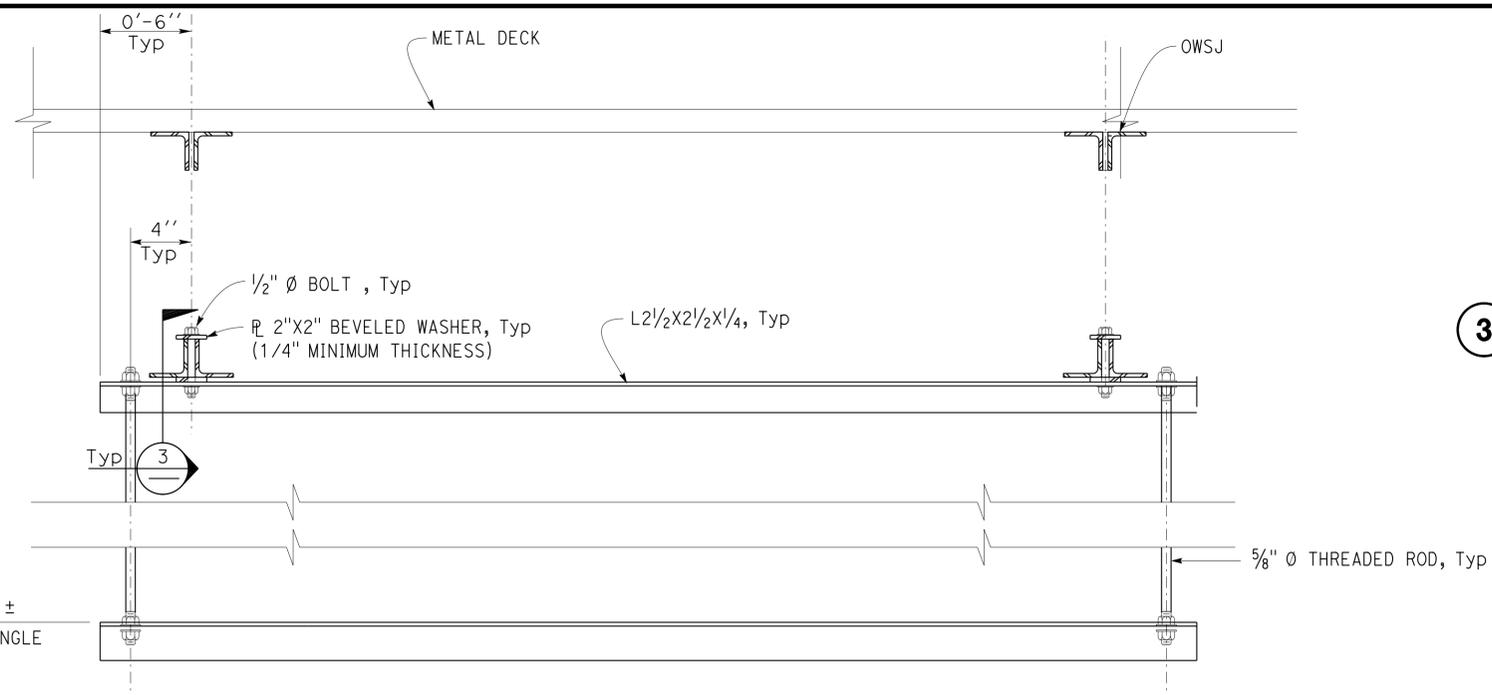
**4 CANOPY SUPPORT SECTION**  
Scale 2" = 1' - 0"



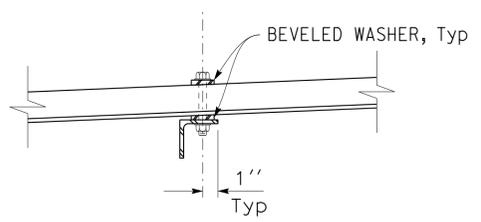
**5 CANOPY SUPPORT PLAN**  
Scale 2" = 1' - 0"

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-32
			33M5785		
			POST MILE		
DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY	0 1 2 3	07-29-13			

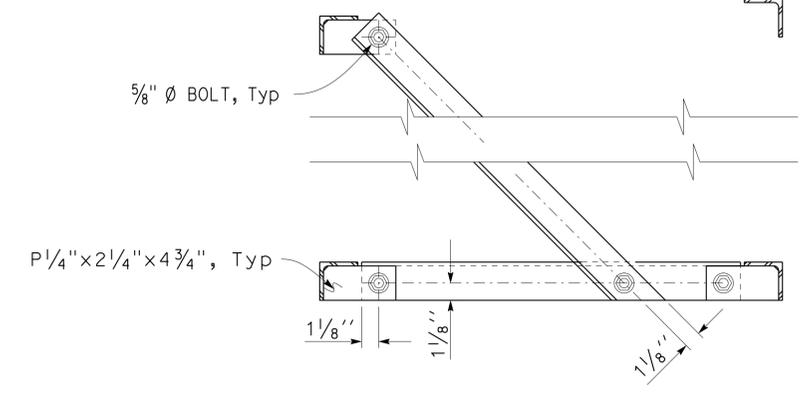
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		235	371
Reviewed by: <i>Ingrid P. Castano</i> INGRID P. CASTANO Approval date: 02-11-14			2-21-14 DATE		
3-24-14 PLANS APPROVAL DATE					
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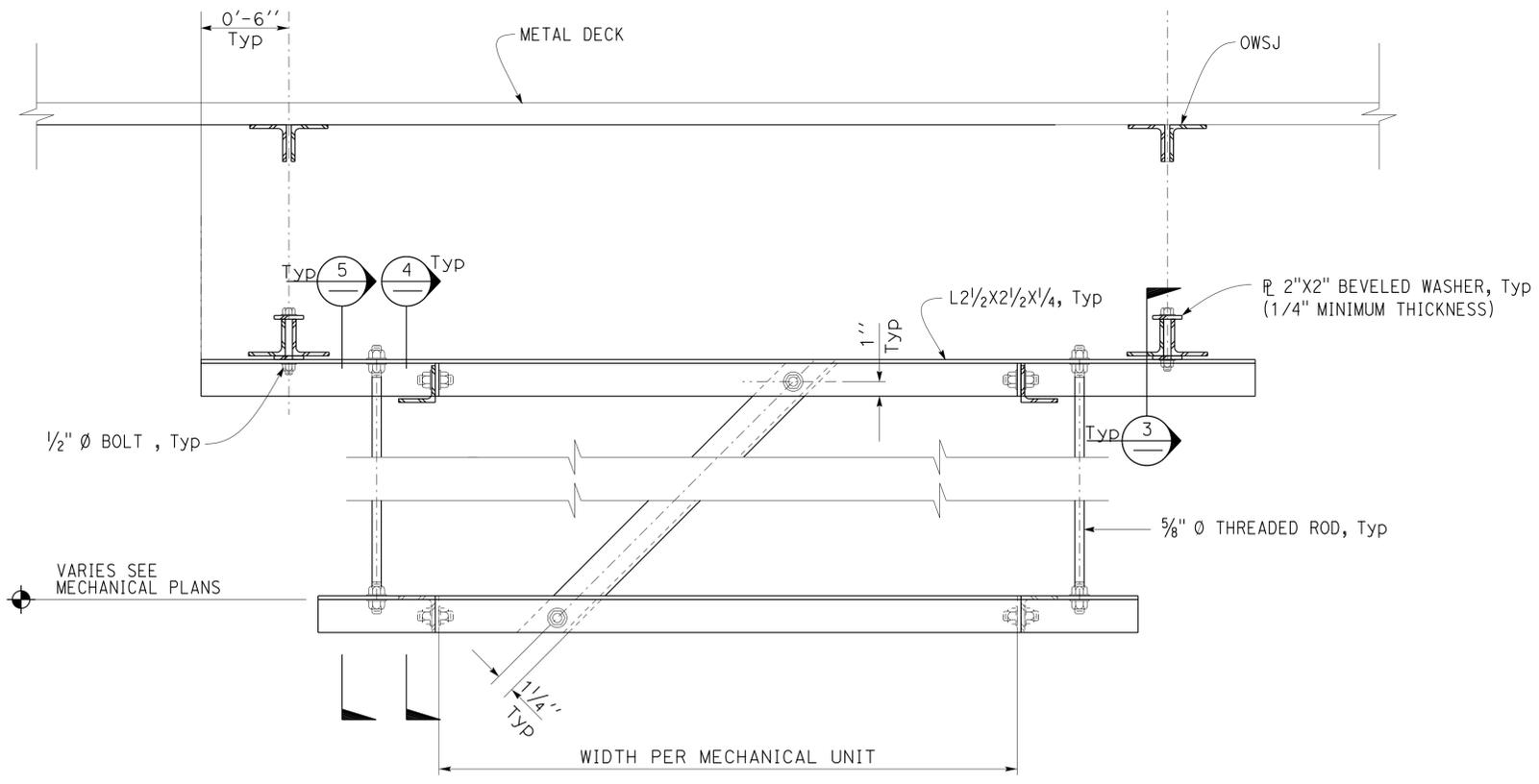
**1 DUCT SUPPORT ELEVATION**  
Scale 2" = 1' - 0"



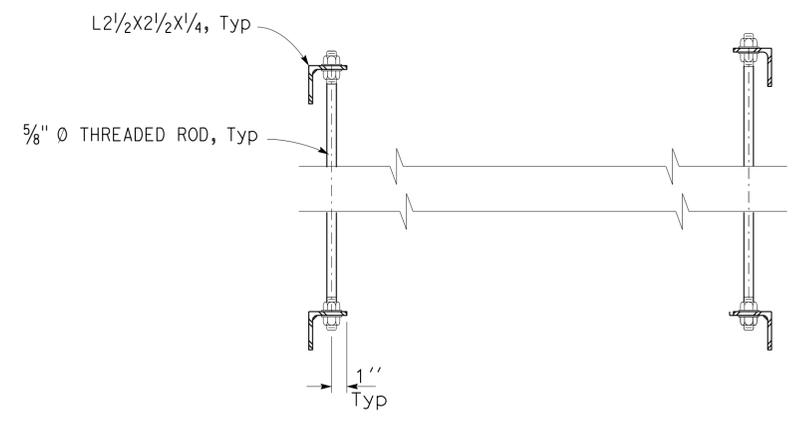
**3 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**4 MECHANICAL UNIT SUPPORT SECTION**  
Scale 2" = 1' - 0"



**2 MECHANICAL UNIT SUPPORT ELEVATION**  
Scale 2" = 1' - 0"



**5 MECHANICAL UNIT SUPPORT SECTION**  
Scale 2" = 1' - 0"

DESIGN BY JUSTIN UYEHARA	CHECKED BRIAN SUTLIFF	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-33
				33M5785		
DETAILS BY PETE VON SAVOYE	CHECKED BRIAN SUTLIFF			POST MILE	DUCT AND MECHANICAL UNIT SUPPORT DETAILS	
QUANTITIES BY	CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
0 1 2 3				REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEWW Imperial - CCSC Rev. 01/13				07-01-13		
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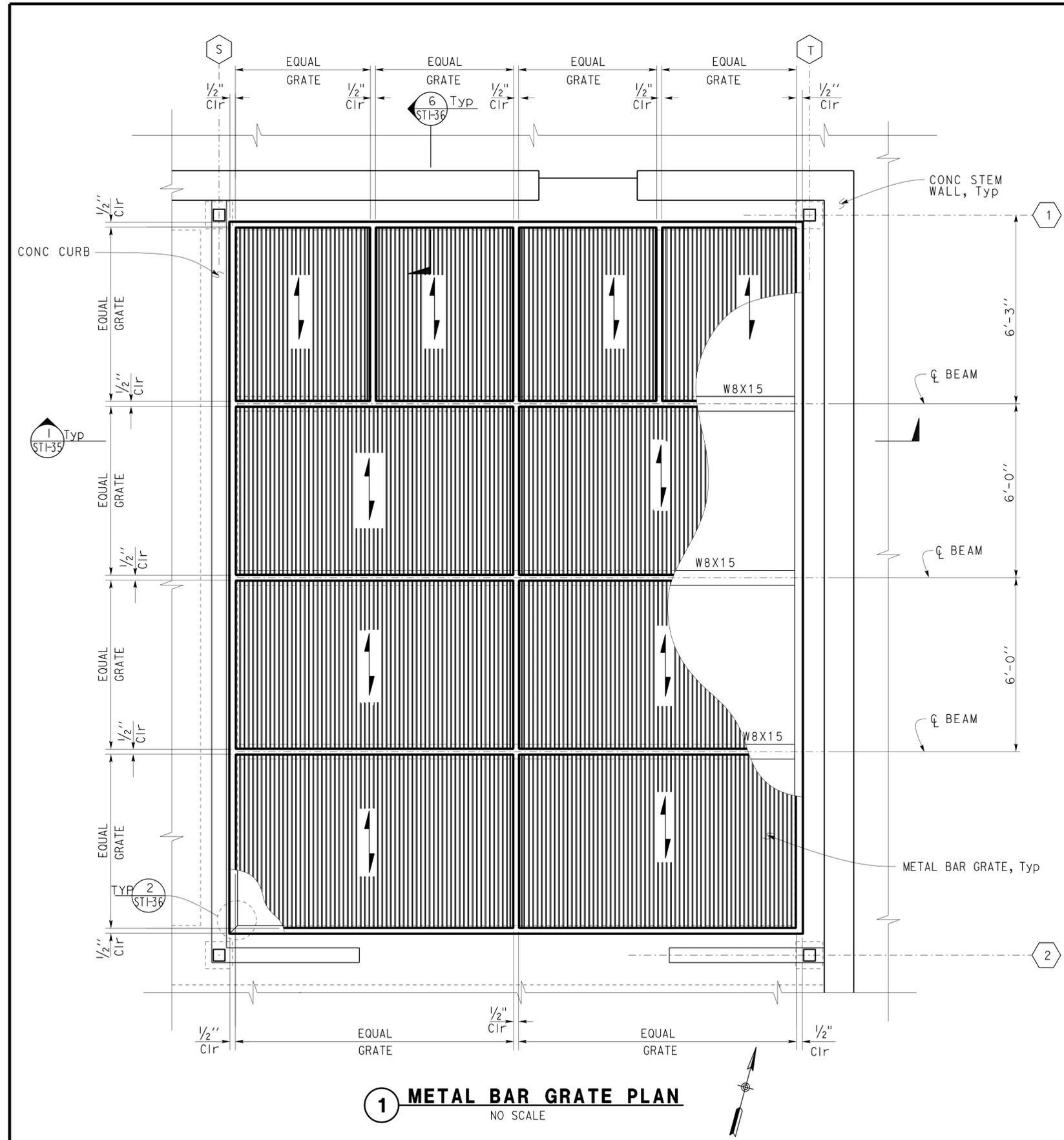
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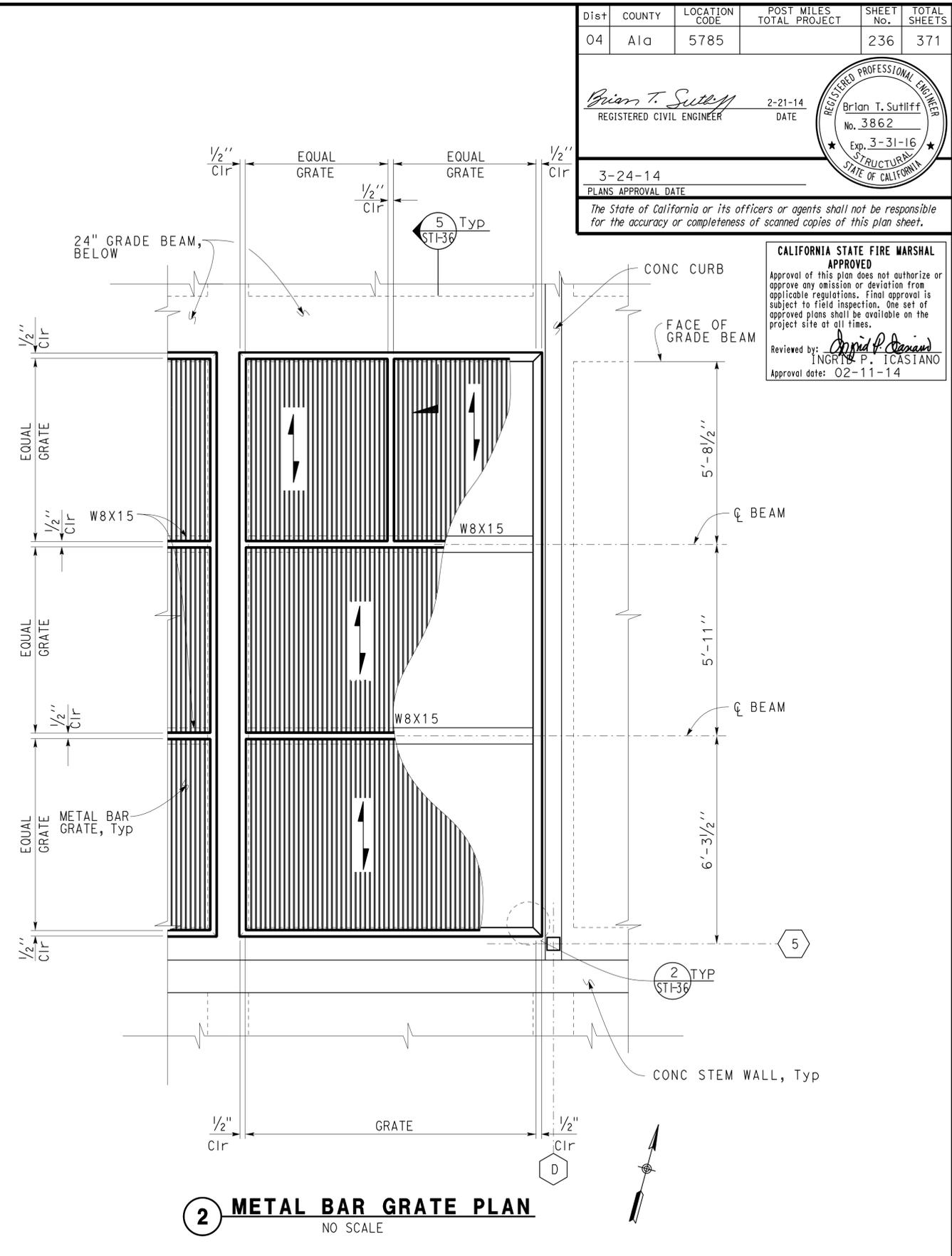
<i>Brian T. Sutliff</i>		2-21-14
REGISTERED CIVIL ENGINEER		DATE
3-24-14		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



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 Reviewed by: *David P. Casiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14



**1 METAL BAR GRATE PLAN**  
NO SCALE



**2 METAL BAR GRATE PLAN**  
NO SCALE

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET ST1-34	
					33M5785			
					POST MILE			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		237	371

*Brian T. Sutliff*  
 REGISTERED CIVIL ENGINEER  
 2-21-14  
 DATE

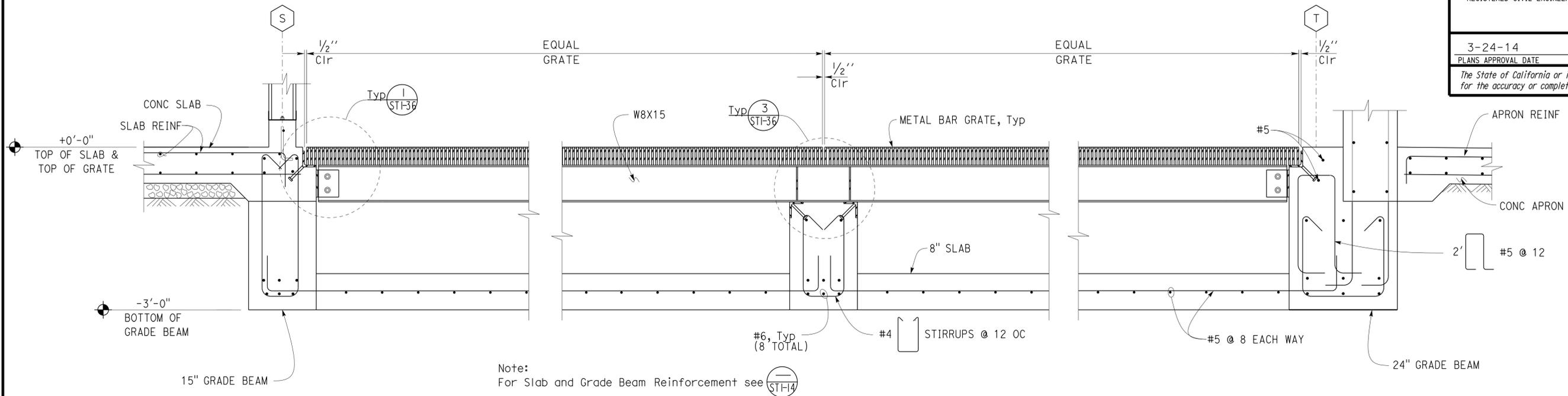
REGISTERED PROFESSIONAL ENGINEER  
 Brian T. Sutliff  
 No. 3862  
 Exp. 3-31-16  
 STRUCTURAL  
 STATE OF CALIFORNIA

3-24-14  
 PLANS APPROVAL DATE

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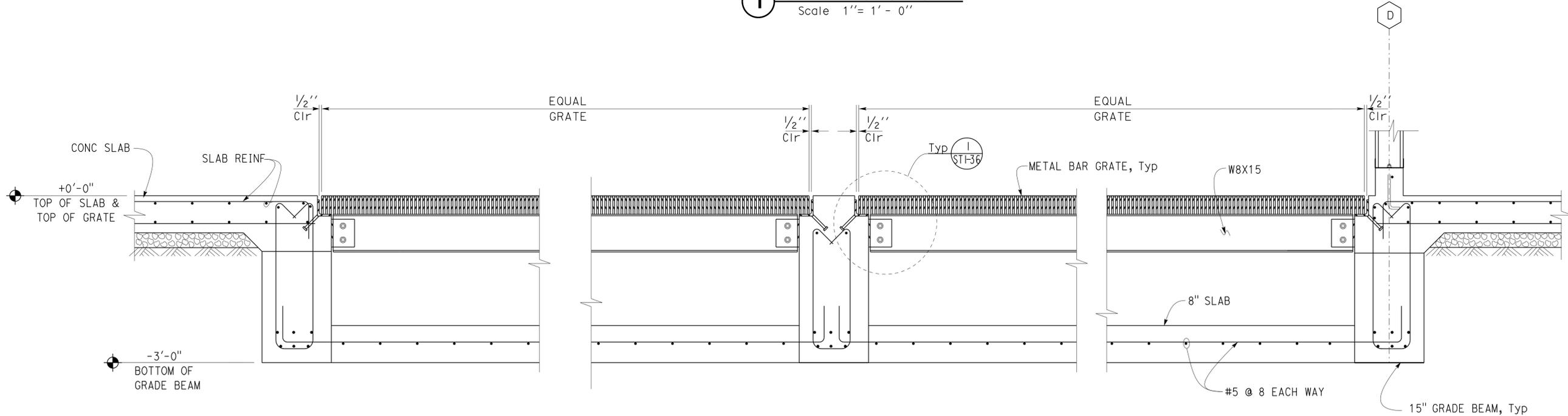
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Ingrid P. Icasiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14



Note:  
 For Slab and Grade Beam Reinforcement see (ST-14)

**1 GRATE SECTION**  
 Scale 1" = 1' - 0"



Note:  
 For Slab and Grade Beam Reinforcement see (ST-14)

**2 GRATE SECTION**  
 Scale 1" = 1' - 0"

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF	DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE	SHEET ST1-35
					POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13							

30-APR-2014 10:25

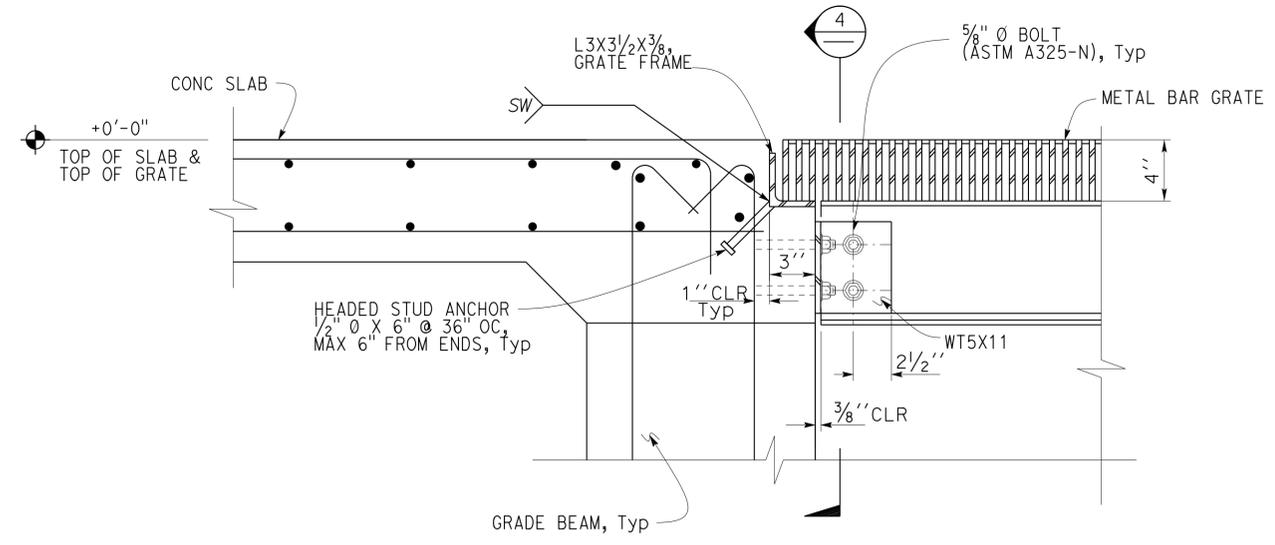
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		238	371

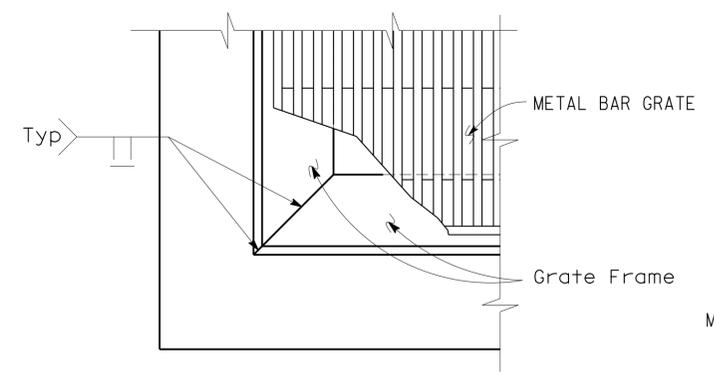
<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Castano</i> <b>INGRID P. CASTANO</b> Approval date: 02-11-14		2-21-14 DATE
3-24-14 PLANS APPROVAL DATE		
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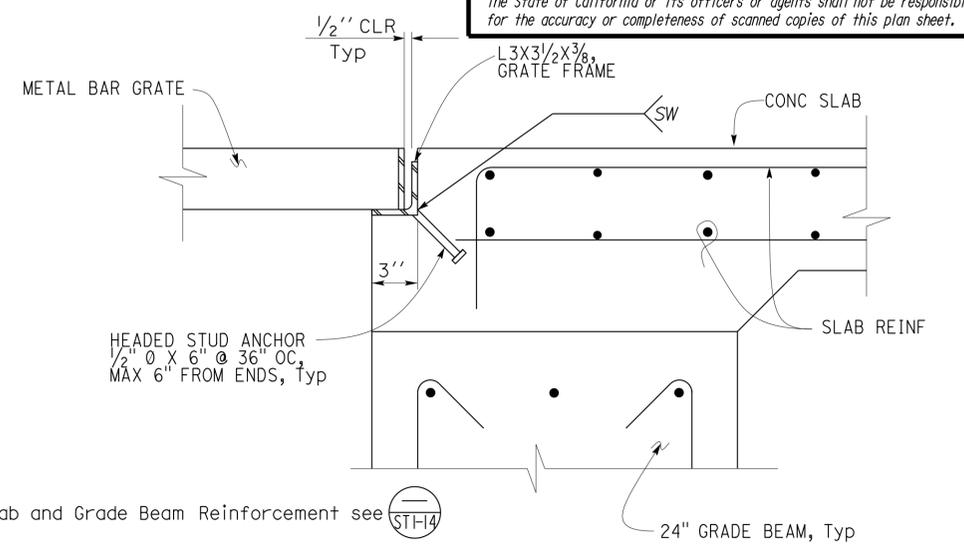
<b>REGISTERED PROFESSIONAL ENGINEER</b> Brian T. Sutliff No. 3862 Exp. 3-31-16 STRUCTURAL STATE OF CALIFORNIA	
--	--



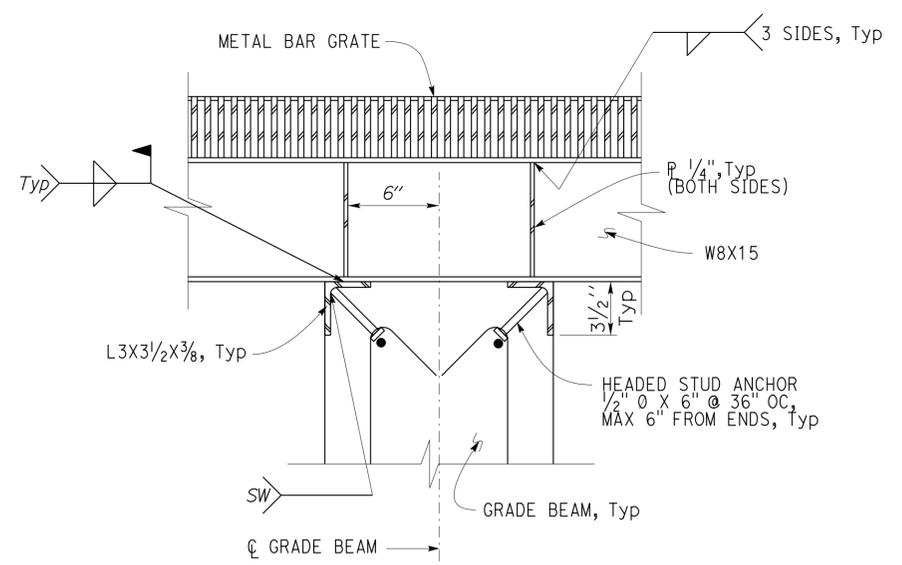
**1 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



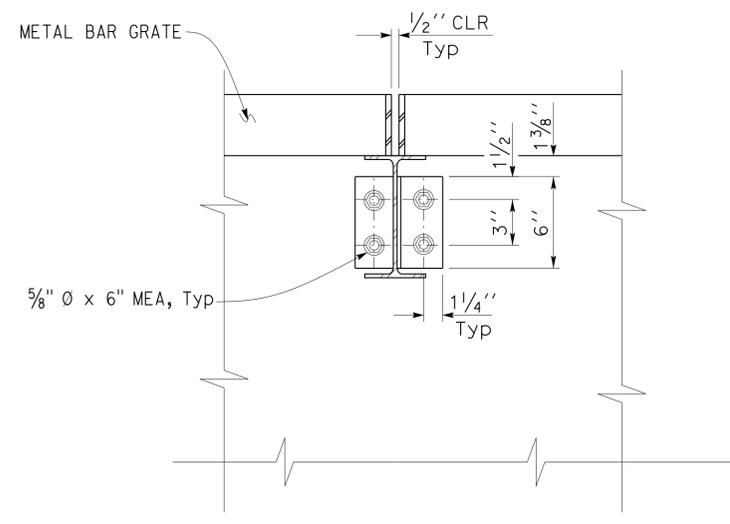
**2 GRATE FRAME DETAIL**  
Scale 3" = 1' - 0"



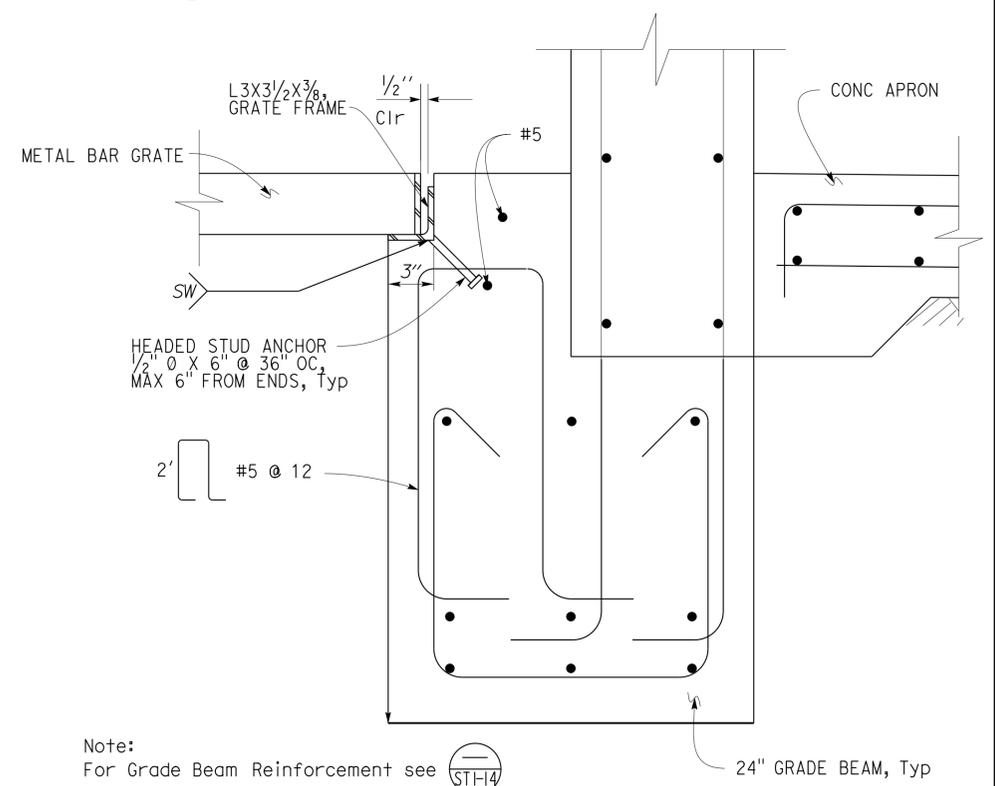
**5 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**3 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**4 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**6 CONNECTION DETAIL**  
Scale 2" = 1' - 0"

Note:  
For Slab and Grade Beam Reinforcement see (ST-14)

Note:  
For Grade Beam Reinforcement see (ST-14)

DESIGN BY JUSTIN UYEHARA CHECKED BRIAN SUTLIFF DETAILS BY PETE VON SAVOYE CHECKED BRIAN SUTLIFF QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE METAL BAR GRATE DETAILS	SHEET ST1-36 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-01-13   10-18-13	SHEET OF
	TAEWW Imperial - CCSC Rev. 01/13	D:\CADUser\Projects\Dist_04\SFOBB_maintenance\combined\st1-04-18-13\expd\fe\st1_36.dgn	30-APR-2014 10:25		

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		239	371

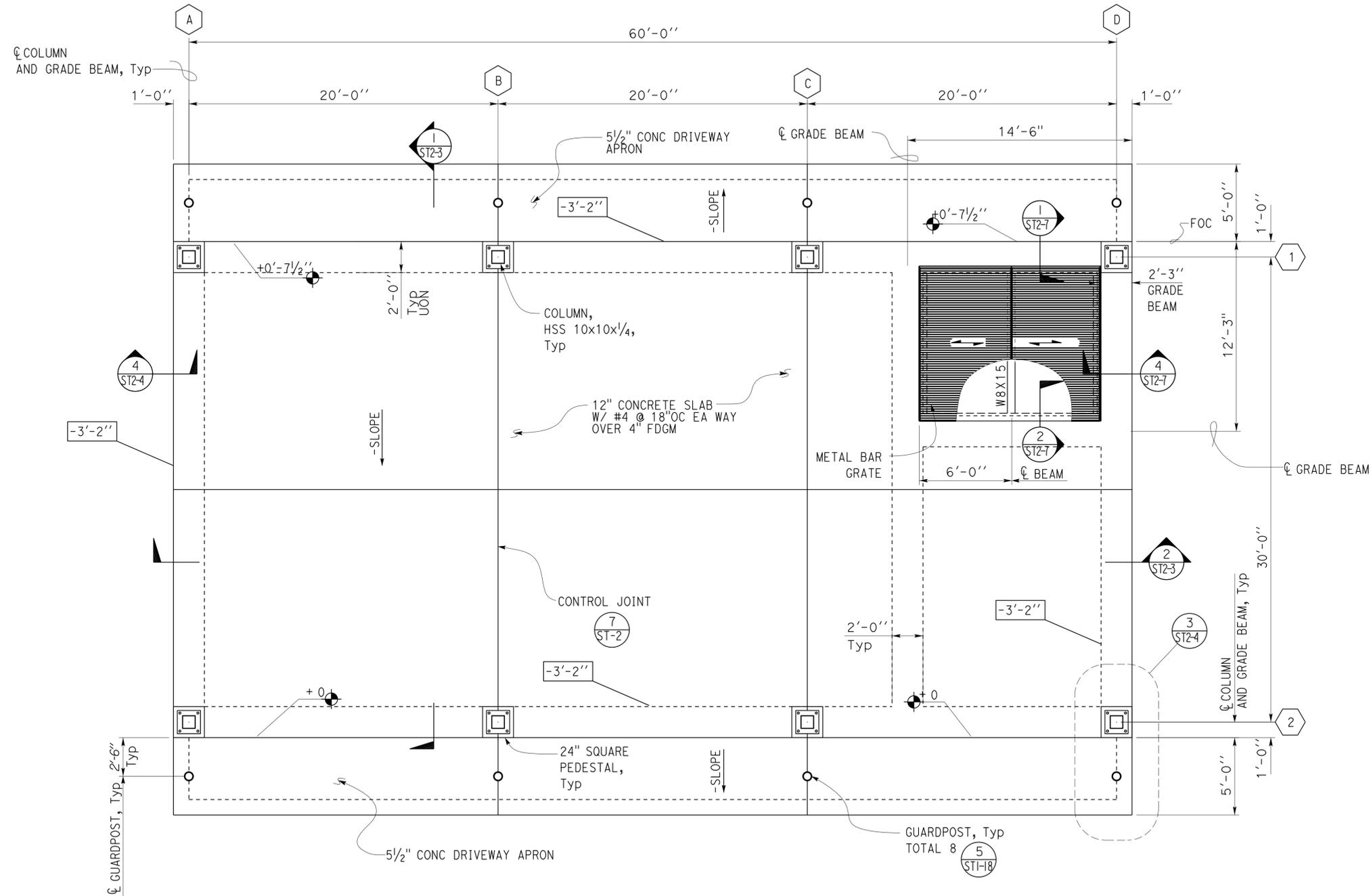
Brian T. Sutliff 02-21-14  
 REGISTERED STRUCTURAL ENGINEER DATE



3-24-14  
 PLANS APPROVAL DATE

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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14



**1 FOUNDATION PLAN**  
 Scale 1/4" = 1' - 0"  
 Elevation 10.50 = Datum 0'-0"

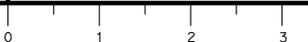


DESIGN	BY Brian Sutliff	CHECKED Sean Samuel
DETAILS	BY Brian Sutliff	CHECKED Justin Uyehara
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	33M5785
POST MILE	

<b>SFOBB WAREHOUSE</b>		SHEET	ST2-1
FOUNDATION PLAN		OF	



DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		240	371

*Brian T. Sutliff* 02-21-14  
 REGISTERED STRUCTURAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

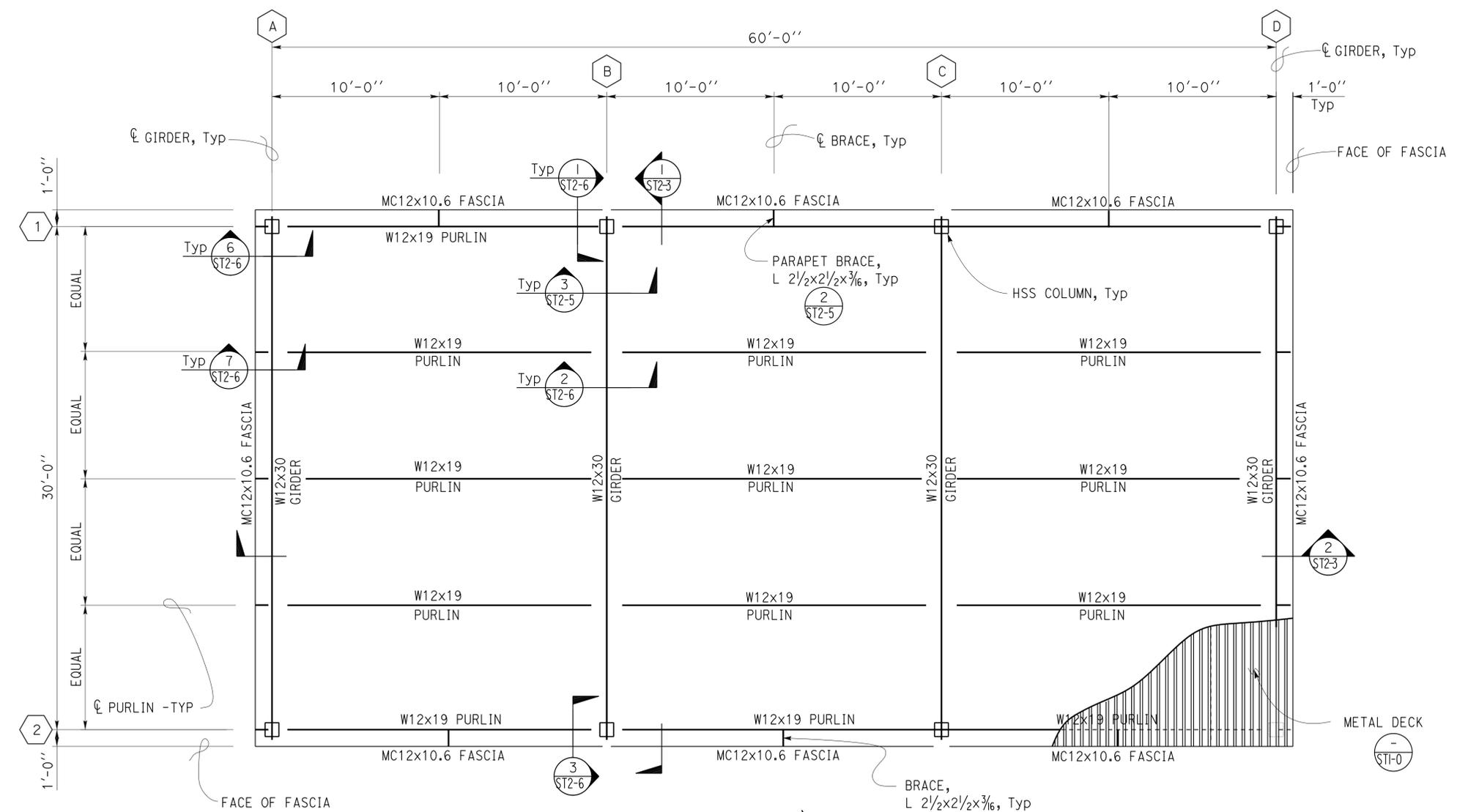
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 INGRID P. CASIANO  
 Approval date: 02-11-14



**1 ROOF FRAMING PLAN**  
 Scale 1/4" = 1' - 0"

DESIGN BY Brian Sutliff	CHECKED Sean Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 33M5785	SFOBB WAREHOUSE		SHEET ST2-2
				POST MILE	STORAGE CANOPY	ROOF FRAMING PLAN	
DETAILS BY Brian Sutliff	CHECKED Justin Uyehara	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3595 04130001331	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
QUANTITIES BY	CHECKED			12-14-12 12-20-13			

TAEMWW Imperial Rev. 7/10

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		241	371

*Brian T. Sutliff* 02-21-14  
 REGISTERED STRUCTURAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

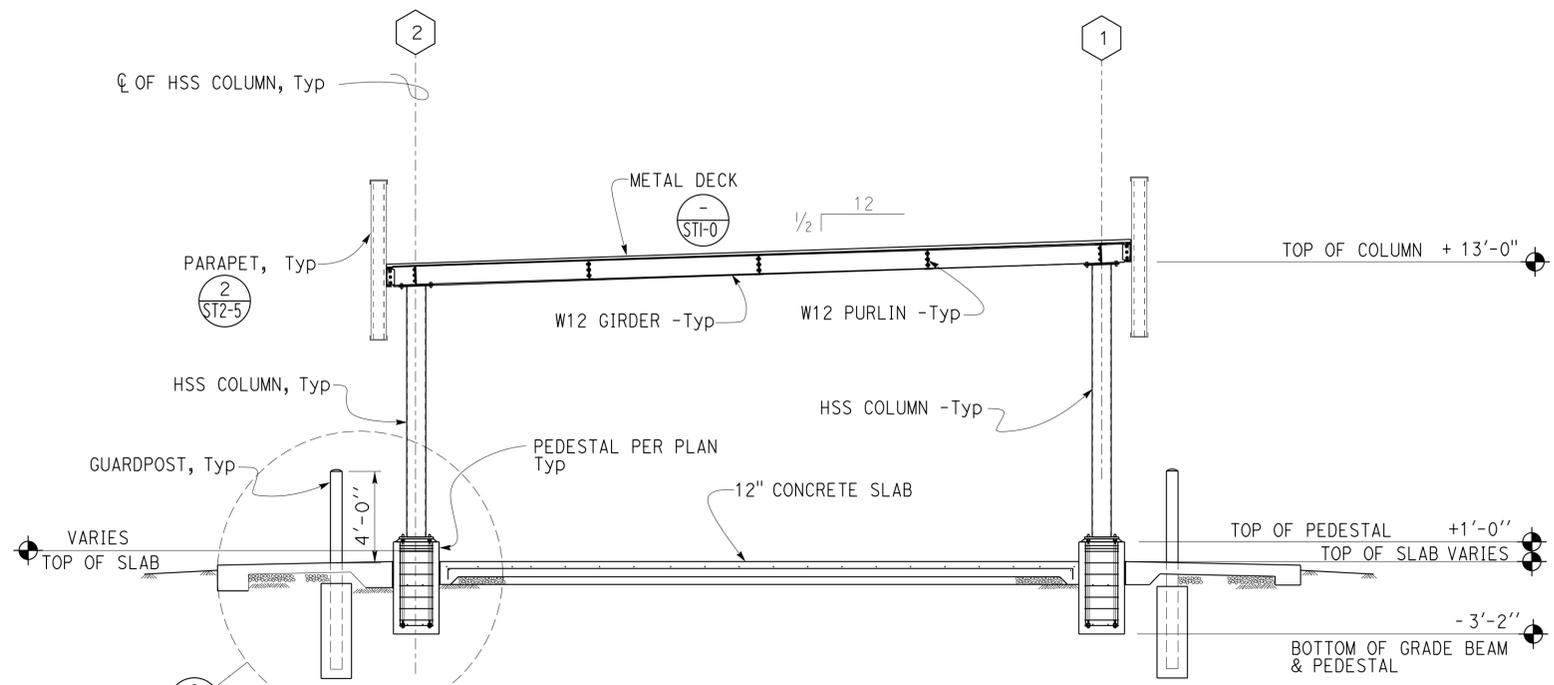
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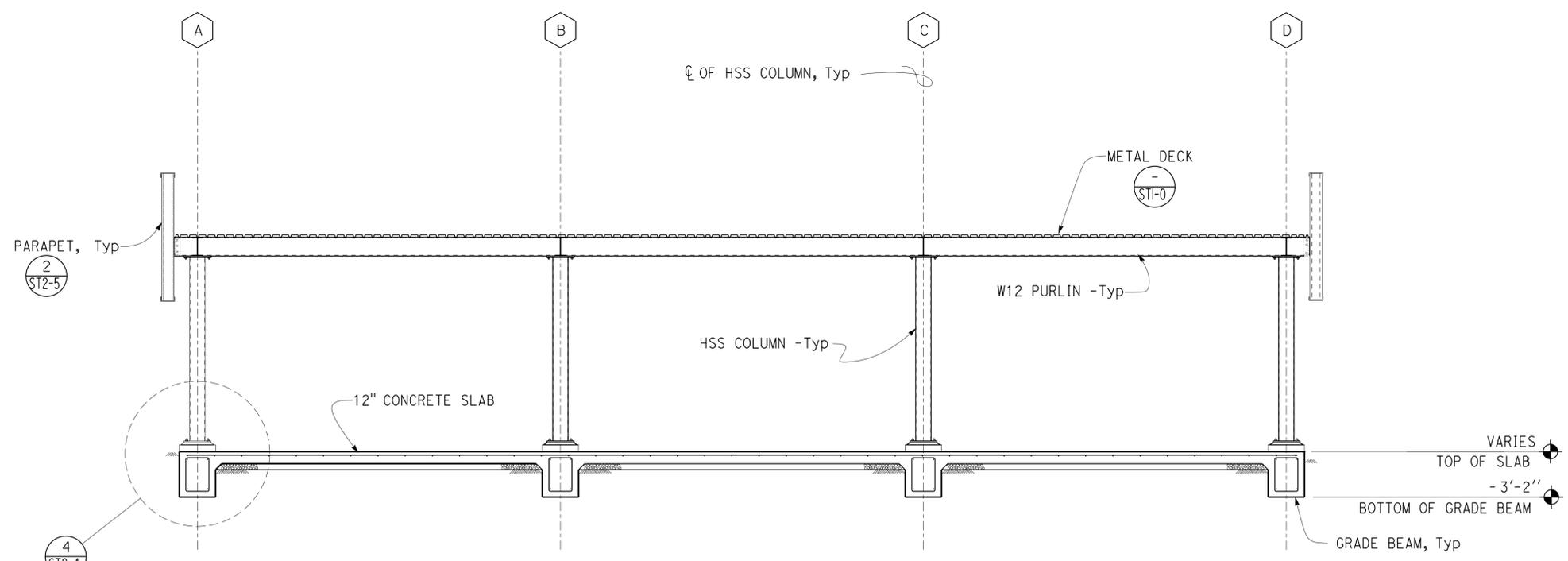
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 INGRID P. CASIANO  
 Approval date: 02-11-14



**1 CANOPY TRANSVERSE SECTION**  
 Scale 1/4" = 1' - 0"



**2 CANOPY LONGITUDINAL SECTION**  
 Scale 1/4" = 1' - 0"

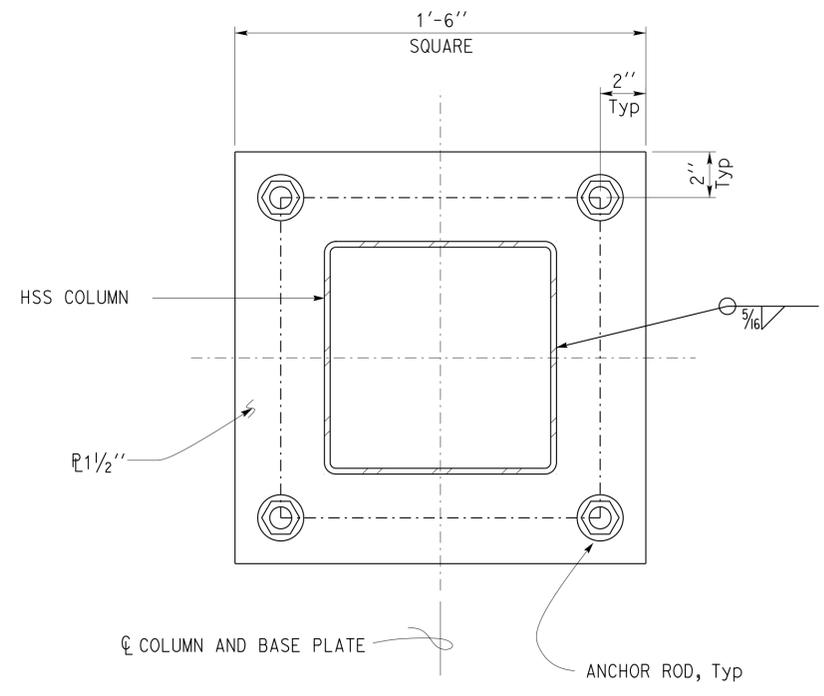
DESIGN	BY Brian Sutliff	CHECKED Sean Samuel
DETAILS	BY Brian Sutliff	CHECKED Justin Uyehara
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

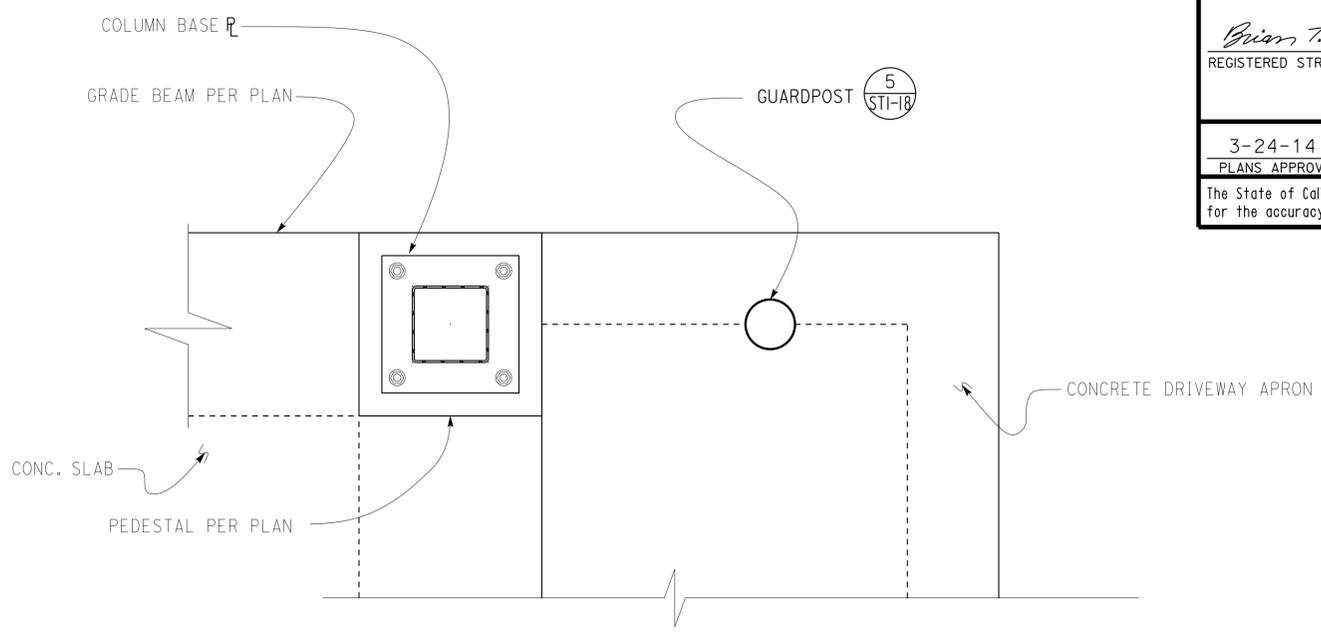
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 33M5785	STORAGE CANOPY	SFOBB WAREHOUSE ELEVATIONS	SHEET OF ST2-3
POST MILE			

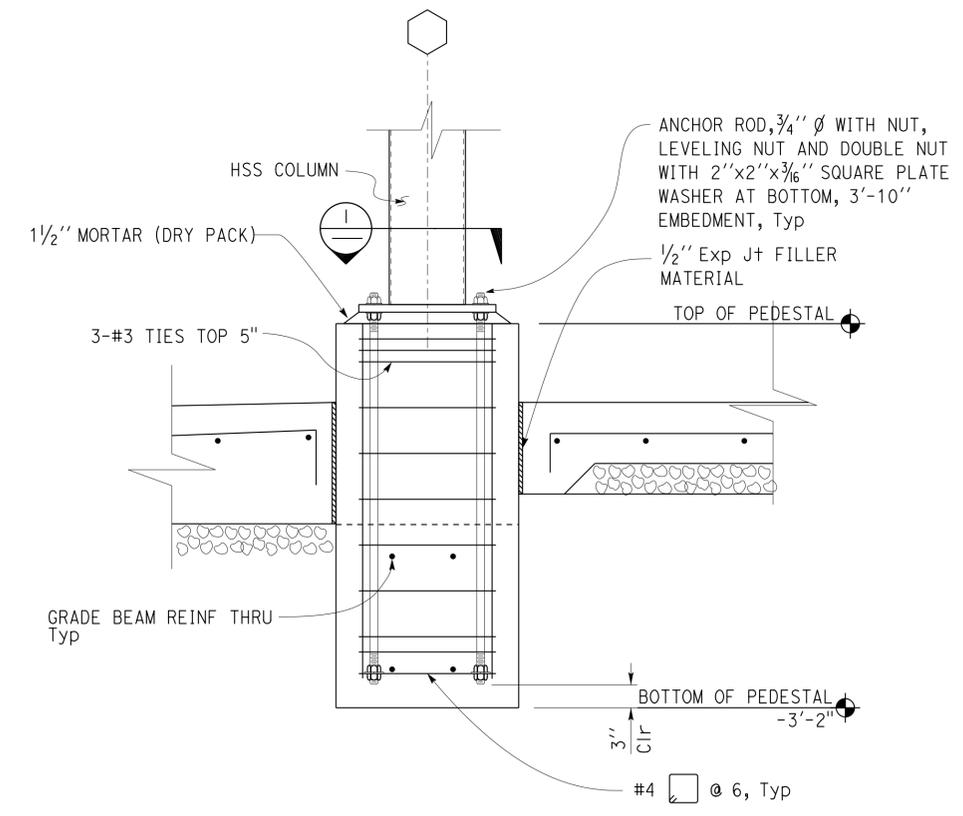
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		242	371
<i>Brian T. Sutliff</i> 02-21-14 REGISTERED STRUCTURAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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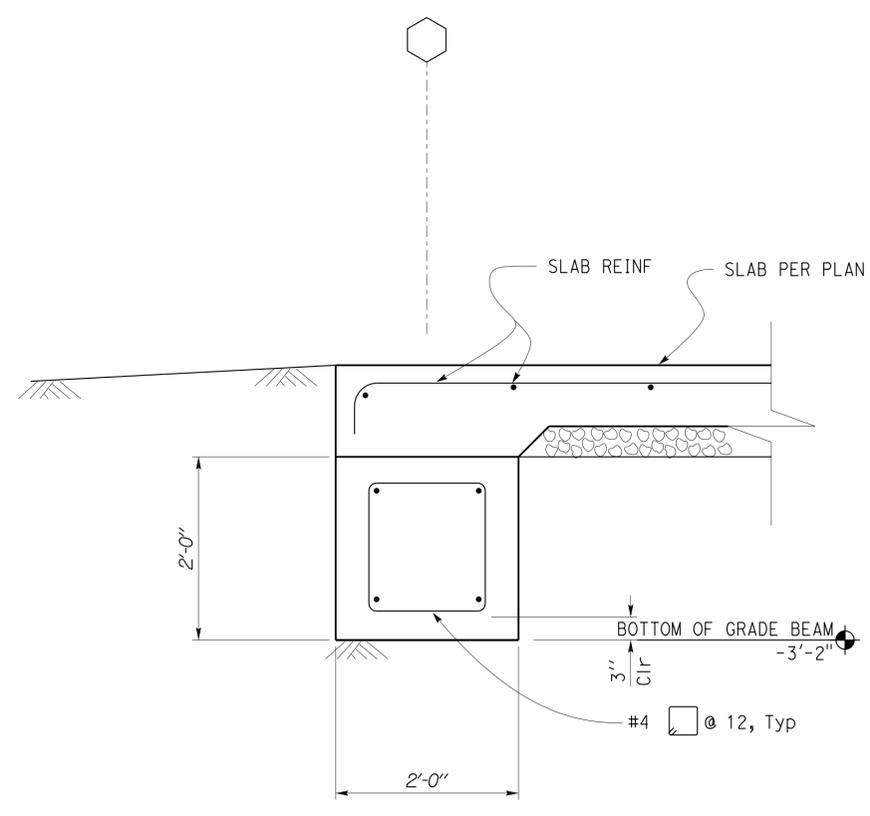
1 HSS COLUMN BASE PLATE PLAN  
Scale 3" = 1' - 0"



3 GRADE BEAM AND GUARDPOST PLAN  
Scale 3/4" = 1' - 0"



2 PEDESTAL SECTION  
Scale 1" = 1' - 0"



4 GRADE BEAM SECTION  
Scale 1" = 1' - 0"

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DESIGN	BY	Brian Sutliff	CHECKED	Sean Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	33M5785		SFOBB WAREHOUSE	SHEET ST2-4
	DETAILS	BY	Brian Sutliff	CHECKED			Justin Uyehara	POST MILE	STORAGE CANOPY		
QUANTITIES	BY		CHECKED		UNIT PROJECT NUMBER & PHASE	3595 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	EA 000000		03-16-11   12-20-13			

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		243	371

Brian T. Sutliff 02-21-14  
 REGISTERED STRUCTURAL ENGINEER DATE



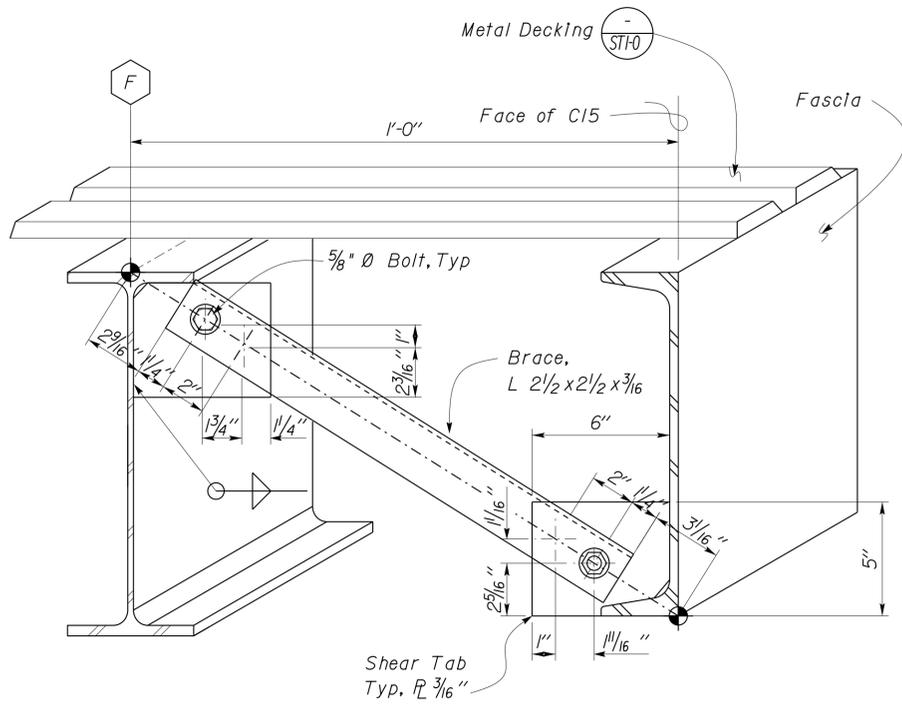
3-24-14  
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CALIFORNIA STATE FIRE MARSHAL APPROVED

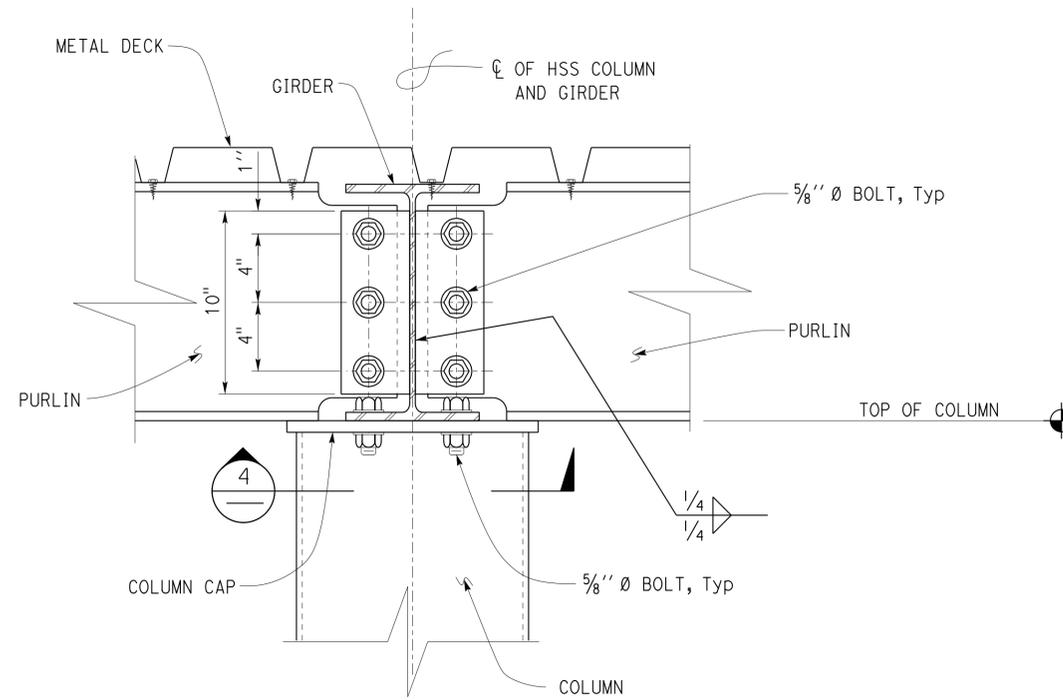
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 INGRID P. CASIANO  
 Approval date: 02-11-14

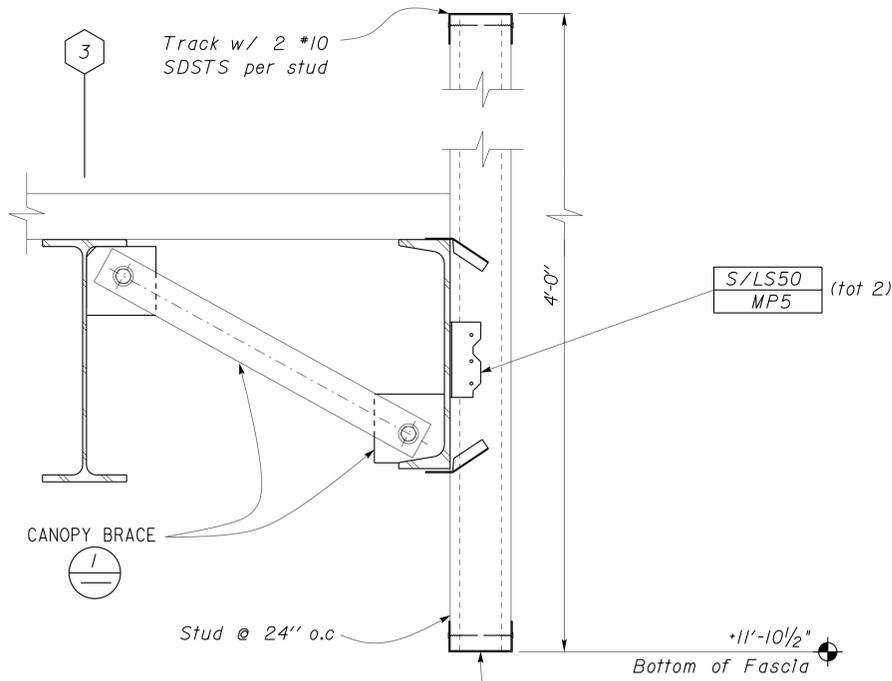


NOTE: Cold Formed Steel Parapet not shown for clarity

1 BRACE CONNECTION DETAIL  
 No Scale

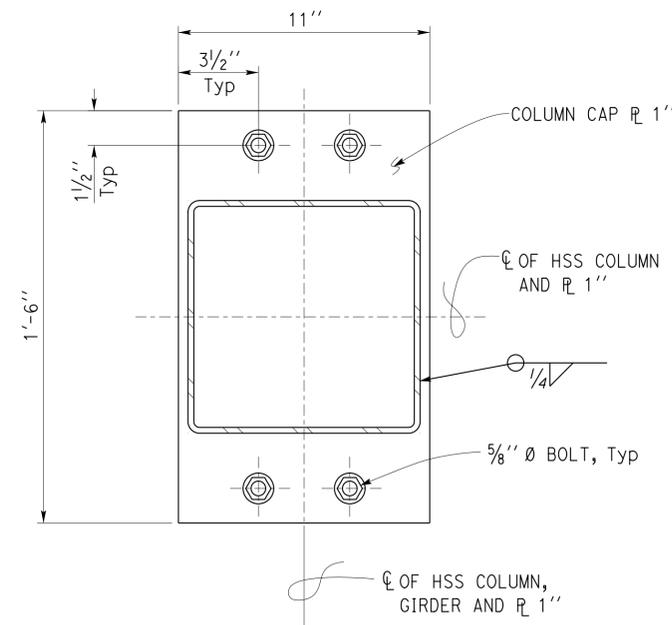


3 GIRDER TO PURLIN CONNECTION  
 No Scale



NOTE: For Cold Formed Section see STI-0

2 PARAPET BRACE DETAIL  
 No Scale



4 COLUMN CAP DETAIL  
 Scale 3" = 1'-0"

DESIGN	BY Brian Sutliff	CHECKED Sean Samuel
DETAILS	BY Brian Sutliff	CHECKED Justin Uyehara
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

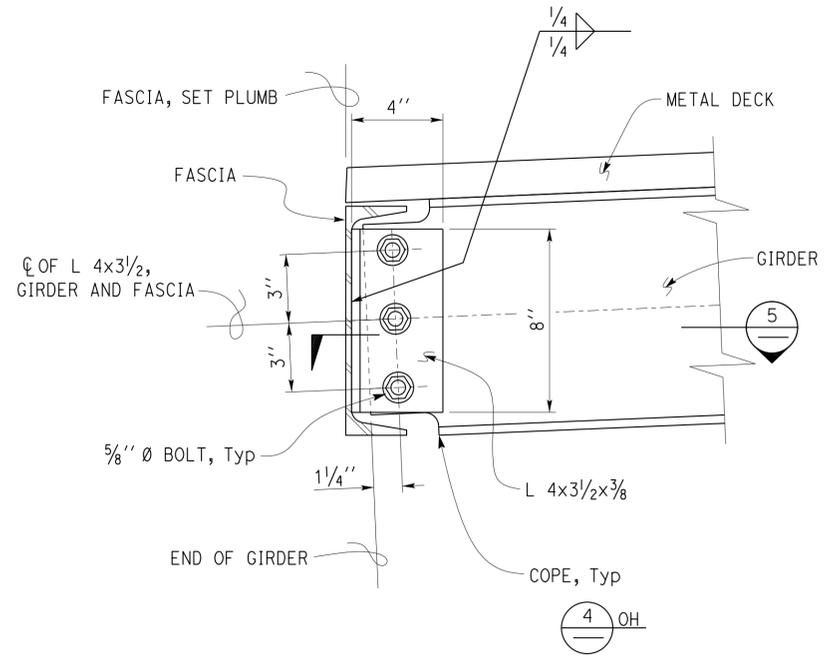
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	33M5785
POST MILE	

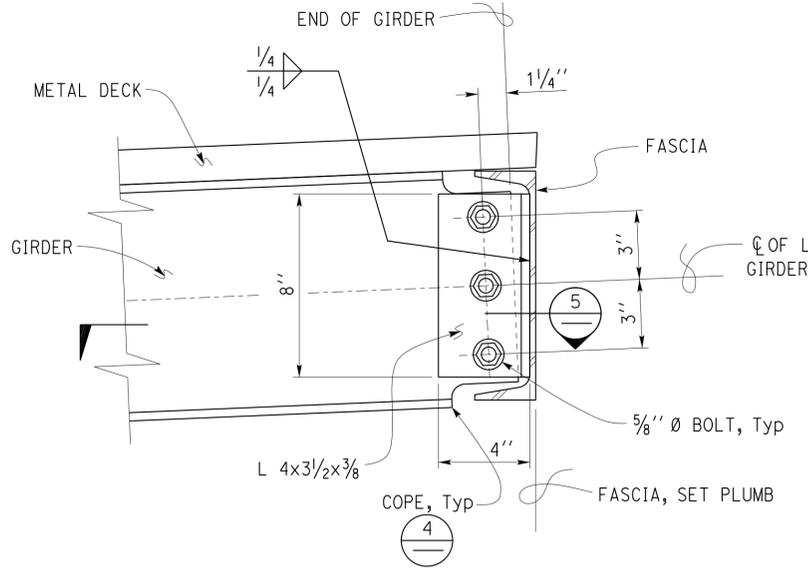
SFOBB WAREHOUSE  
 STORAGE CANOPY  
 CANOPY DETAILS

SHEET OF  
 ST2-5

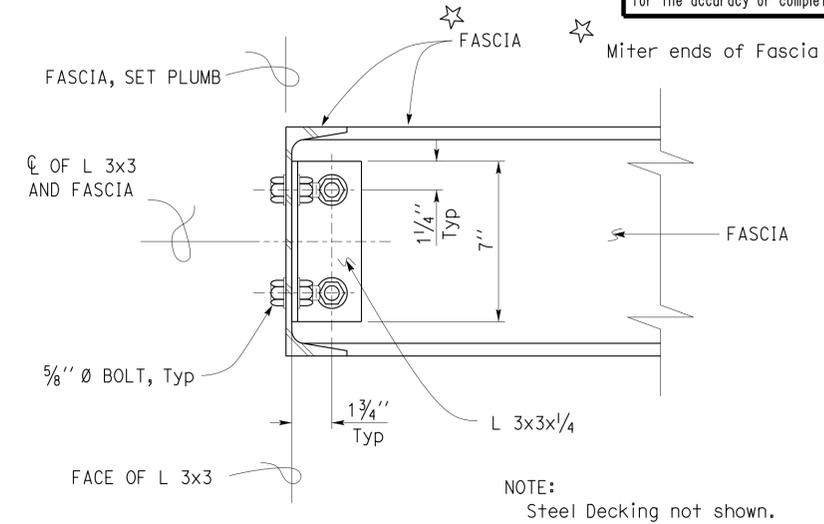
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		244	371
<i>Brian T. Sutliff</i> 02-21-14 REGISTERED STRUCTURAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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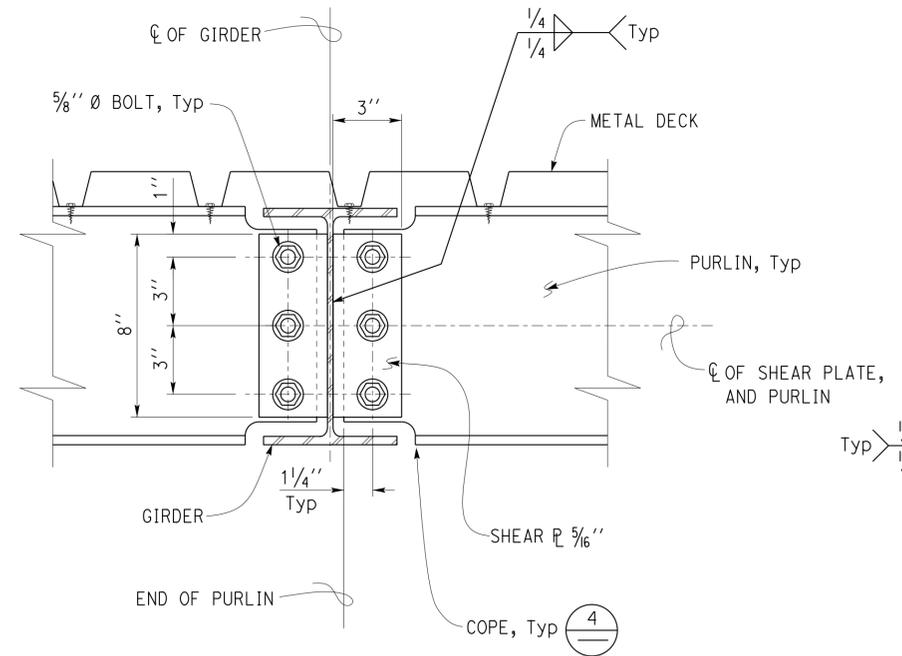
**1 GIRDER TO FASCIA CONNECTION**  
No Scale



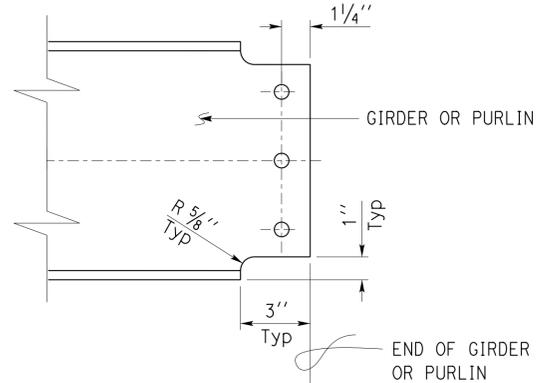
**3 GIRDER TO FASCIA CONNECTION**  
No Scale



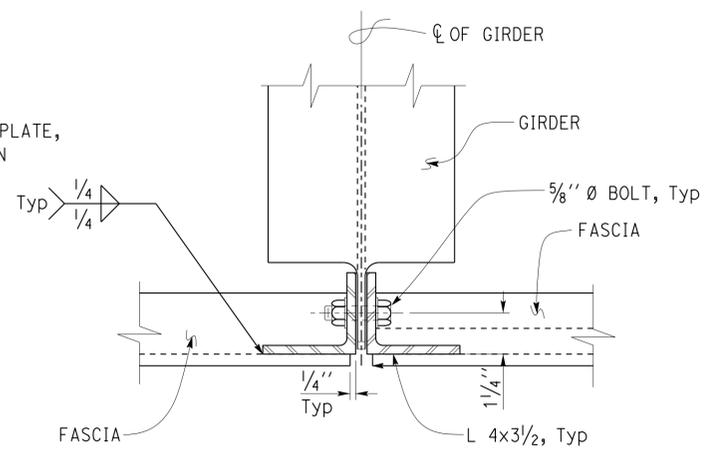
**6 FASCIA TO FASCIA CONNECTION**  
No Scale



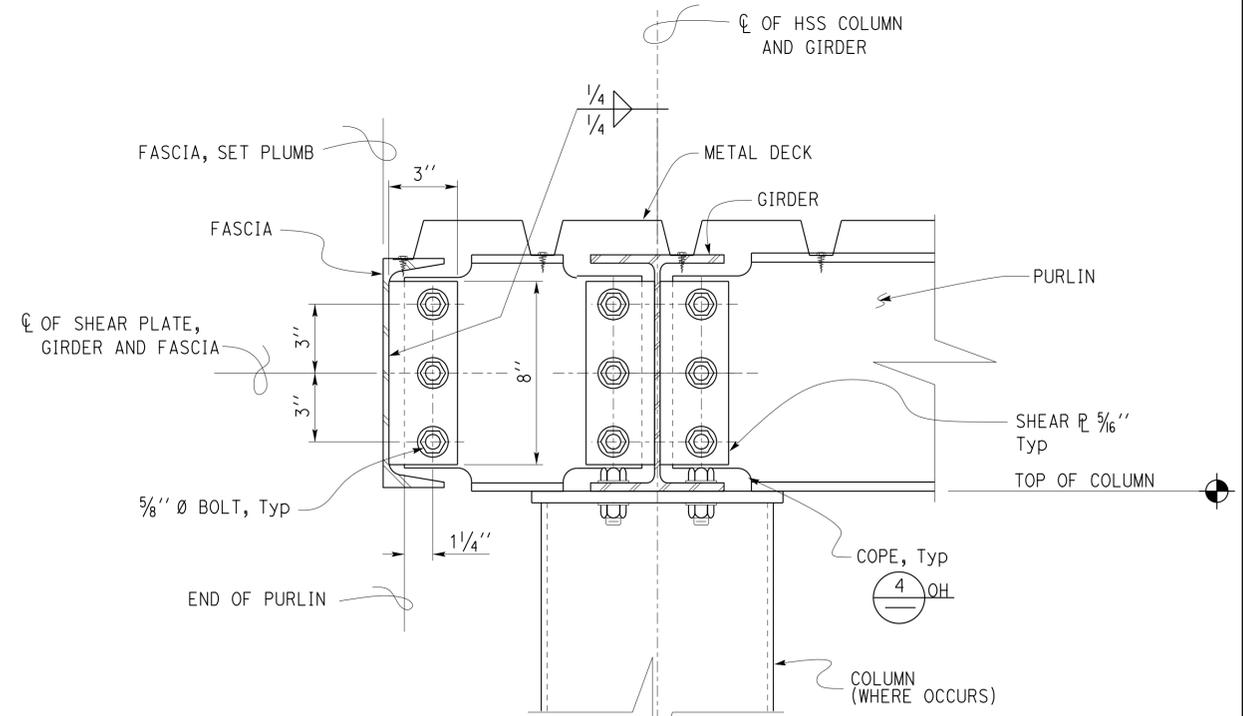
**2 PURLIN TO GIRDER CONNECTION**  
No Scale



**4 GIRDER OR PURLIN COPING DETAIL**  
No Scale



**5 GIRDER TO FACIA CONNECTION**  
No Scale



**7 PURLIN TO FASCIA CONNECTION**  
No Scale

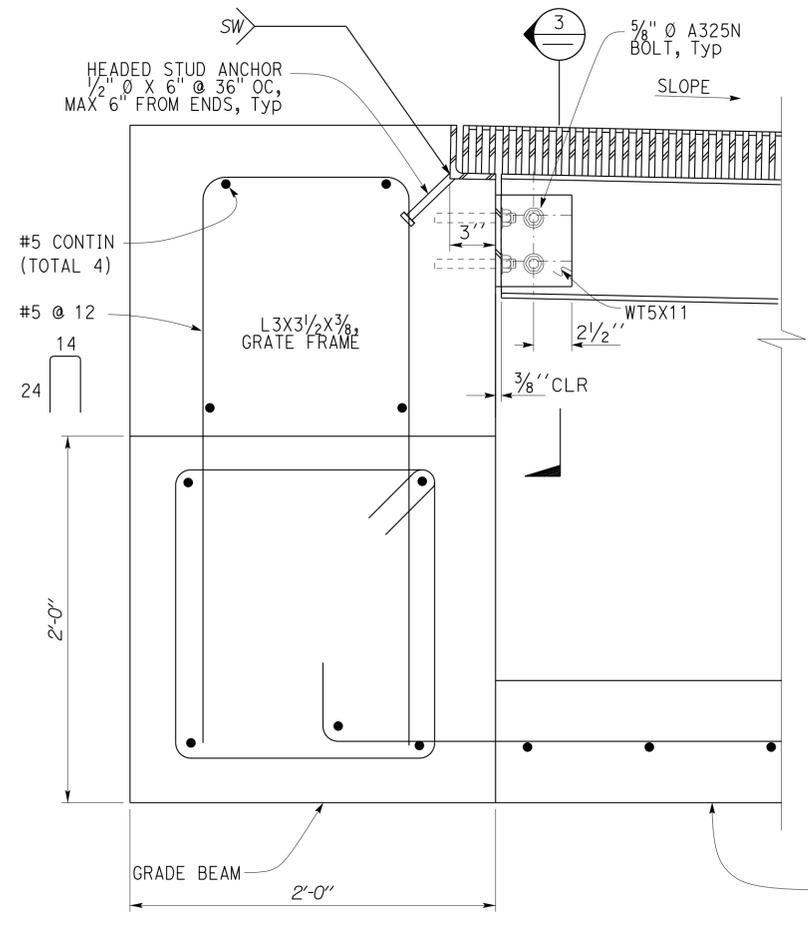
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Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14

DESIGN	BY Brian Sutliff	CHECKED Sean Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 33M5785	<b>SFOBB WAREHOUSE</b> CANOPY DETAILS I	SHEET ST2-6	
DETAILS	BY Brian Sutliff	CHECKED Justin Uyehara		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE		STORAGE CANOPY	OF
QUANTITIES	BY	CHECKED		PROJECT NUMBER & PHASE 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	07-16-10   12-20-13
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE 04130001331	EA 000000	SHEET OF		

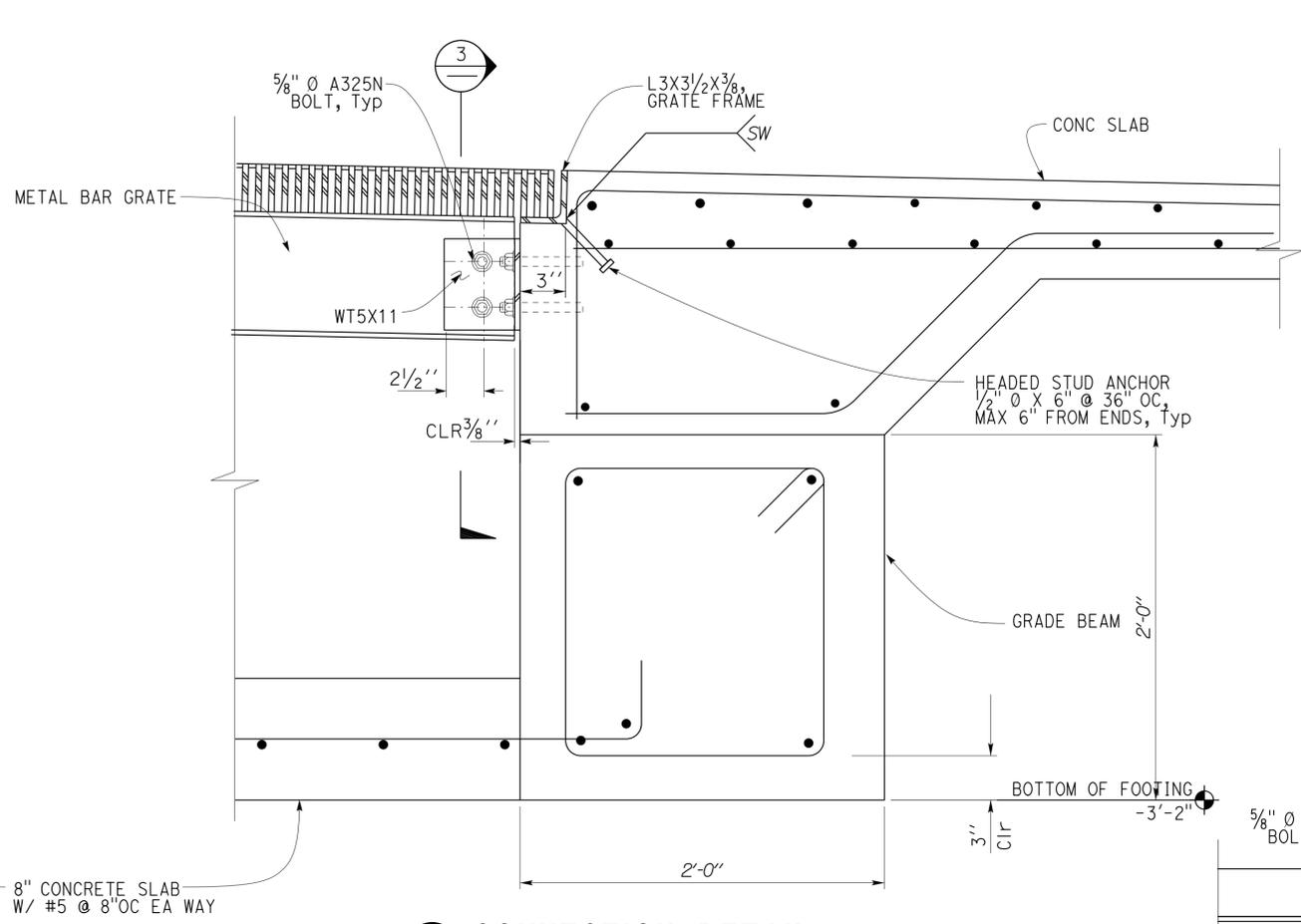
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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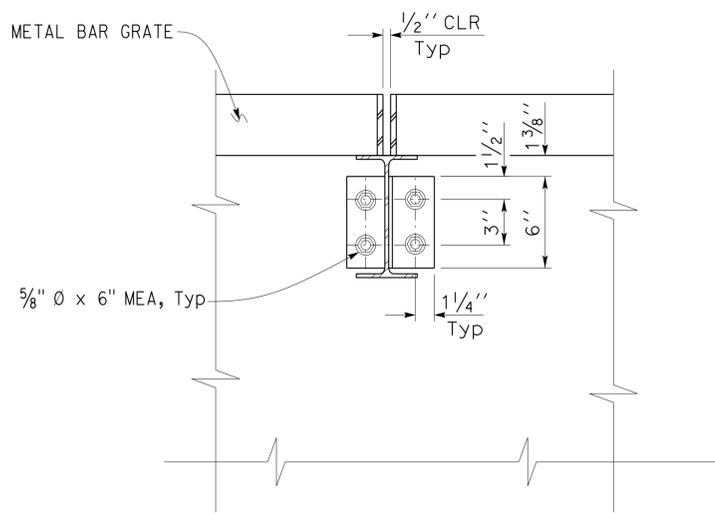
<i>Brian T. Sutliff</i> 02-21-14 REGISTERED STRUCTURAL ENGINEER DATE		
3-24-14 PLANS APPROVAL DATE		
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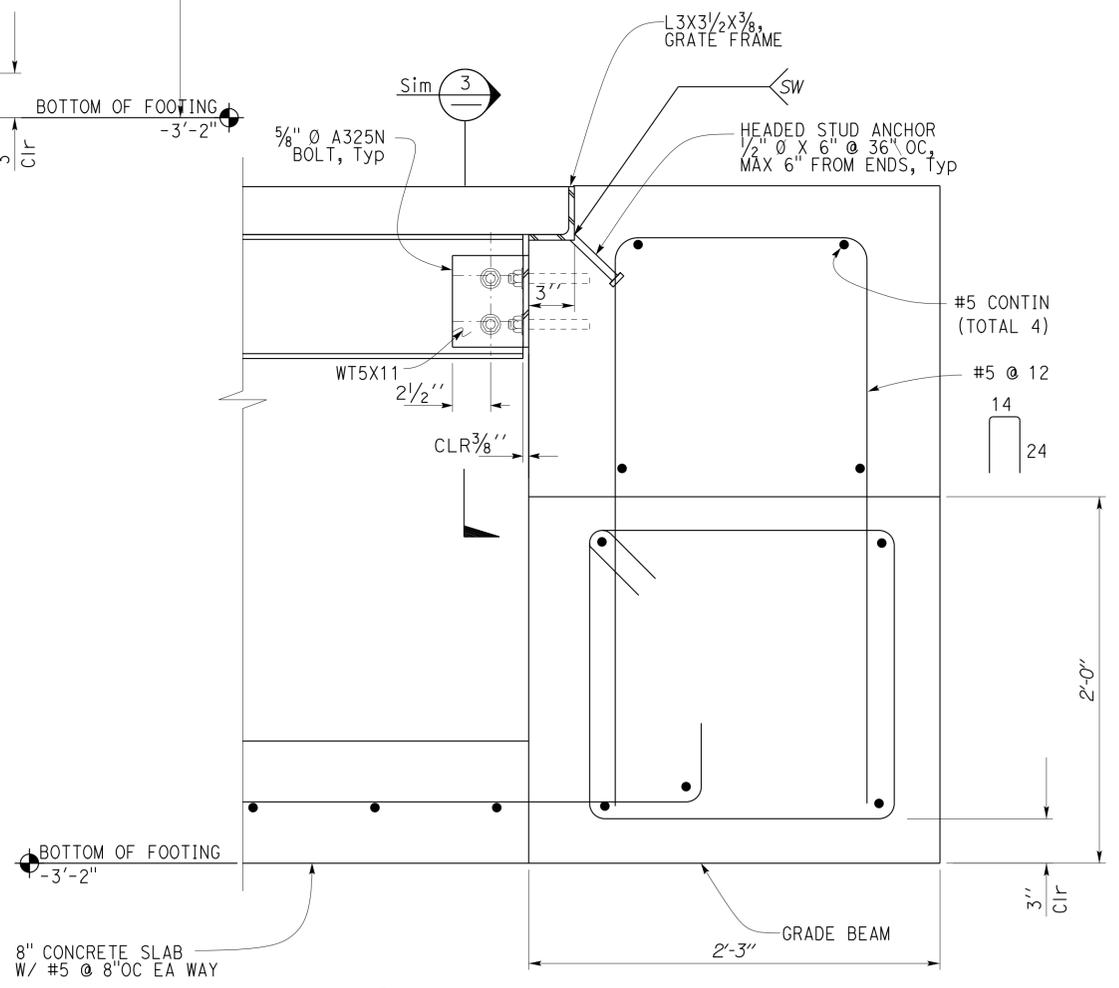
**1 GRATE SUPPORT DETAIL**  
Scale 2" = 1' - 0"



**2 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**3 CONNECTION DETAIL**  
Scale 2" = 1' - 0"



**4 GRATE SUPPORT DETAIL**  
Scale 2" = 1' - 0"

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 INGRID P. CASIANO  
 Approval date: 02-11-14

DESIGN BY <b>Brian Sutliff</b> CHECKED <b>Sean Samuel</b> DETAILS BY <b>Brian Sutliff</b> CHECKED <b>Justin Uyehara</b> QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 33M5785	<b>SFOBB WAREHOUSE</b>		SHEET <b>ST2-7</b>
			POST MILE	STORAGE CANOPY	CANOPY DETAILS 2	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3595 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 07-16-10 12-14-13 02-21-13		SHEET OF	

30-APR-2014 10:25

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		246	371

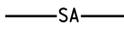
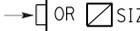
*Christopher M. Faria* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA

**HEATING, VENTILATING AND AIR CONDITIONING**

-  BALANCE DAMPER
-  FLEXIBLE DUCT
-  EXHAUST AIR
-  RETURN AIR
-  SUPPLY AIR
-  EXHAUST GRILLE
-  RETURN GRILLE, SEE NOTE
-  SUPPLY DIFFUSER, SEE NOTE
-  THERMOSTAT
-  EXHAUST FAN TIMER SWITCH
-  FIRE EXTINGUISHER
-  HUMIDISTAT

NOTE: CEILING GRILLE AND DIFFUSERS ARE IDENTIFIED BY DUCT CONNECTION NECK SIZE

**MISCELLANEOUS**

-  ANGLE
-  CENTERLINE
-  DIAMETER
-  SECTION / ELEVATION LETTER SHEET NUMBER
-  DETAIL NUMBER SHEET NUMBER

- A/C AIR CONDITIONING
- ABS ACRYLONITRILE BUTADIENE STYRENE
- AC ASPHALT CONCRETE
- ACP AIR COMPRESSOR
- AP ALTERNATIVE PIPE
- ATF AUTOMATIC TRANSMISSION FLUID
- BD BALANCE DAMPER
- Bldg BUILDING
- BRU BLAST & RECOVERY UNIT
- BTU BRITISH THERMAL UNIT
- BTUH BRITISH THERMAL UNIT PER HOUR
- BV BALANCING VALVE
- C CONDUIT
- Cap CAPACITY
- CF CIRCULATION FAN
- CHLF COMBINATION HEAT LAMP, LIGHT AND FAN UNIT
- CI CAST-IRON
- CO CLEANOUT
- COTF CLEANOUT THROUGH FLOOR
- COTG CLEANOUT THROUGH GRADE
- COTW CLEANOUT TO WALL
- CV CHECK VALVE
- CW COLD WATER
- CFM CUBIC FEET PER MINUTE
- D DEPTH
- Dia DIAMETER
- DWV DRAIN / WASTE / VENT
- DB DRY BULB
- DF DECLASSIFICATION FAN
- DH DEHUMIDIFIER
- (E) EXISTING
- EA EXHAUST AIR
- EEW EMERGENCY EYEWASH AND SHOWER
- EF EXHAUST FAN
- EI ELEVATION
- Elect. ELECTRICAL
- ESP EXTERNAL STATIC PRESSURE
- EWC ELECTRIC WATER COOLER
- EWL ELECTRIC WATER HEATER
- °F FAHRENHEIT
- FC FLEXIBLE CONNECTION
- FD FLOOR DRAIN
- FDC FIRE DEPARTMENT CONNECTION
- FE FIRE EXTINGUISHER
- FG FINISH GRADE
- FL FLOW LINE
- FH FIRE HYDRANT
- FS FLOW SWITCH
- FTR FLUE THROUGH ROOF

**MECHANICAL ABBREVIATIONS**

- Ga GAUGE
- Galv GALVANIZED
- GH GROUND HYDRANT
- GLV GLOBE VALVE
- GPM GALLONS PER MINUTE
- GS GANG SINK
- GSP GALVANIZED STEEL PIPE
- GV GATE VALVE
- GWH GAS WATER HEATER
- Gyp GYPSUM
- H HEIGHT
- HB HYDRANT BOX
- HCP HOT WATER CIRCULATION PUMP
- HF HOSE FAUCET
- HVAC HEATING, VENTILATING AND AIR CONDITIONING
- HW HOT WATER
- HZ HERTZ
- ID INSIDE DIAMETER
- IE INVERT ELEVATION
- In INCH
- IPS INTERNATIONAL PIPE STANDARD
- KS KITCHEN SINK
- Kw KILOWATT
- LIRH LOW INTENSITY RADIANT HEATER
- LPG LIQUIFIED PETROLEUM GAS
- L/S LITERS PER SECOND
- Max MAXIMUM
- Man MANHOLE
- MAU MAKE UP AIR UNIT
- Min MINIMUM
- MS MOP SINK
- (N) NEW
- NIC NOT IN CONTRACT
- No. NUMBER
- NPT NATIONAL PIPE THREAD
- NST NATIONAL STANDARD THREAD
- NPS NOMINAL PIPE SIZE
- OA OUTSIDE AIR
- OC ON CENTER
- OD OUTSIDE DIAMETER
- OG ORIGINAL GROUND
- Ph PHASE
- PIV POST INDICATOR VALVE
- POC POINT OF CONNECTION
- PVC POLYVINYL CHLORIDE
- PCC PORTLAND CEMENT CONCRETE
- PSI POUNDS PER SQUARE INCH
- PV PHOTO VOLTAIC
- RH RADIANT HEATER
- R RADIUS
- RA RETURN AIR
- RAD REFRIGERATED AIR DRYER
- RCP REINFORCED CONCRETE PIPE
- RD ROOF DRAIN
- Reg REGISTER
- Req REQUIRED
- RW RECYCLED WATER
- SA SUPPLY AIR
- Sch SCHEDULE
- SDS SANITARY DUMP STATION
- SF SUPPLY FAN
- SHR SHOWER
- S. P. STATIC PRESSURE
- StA STATION
- Std STANDARD
- TA TRANSFER AIR
- TP TRAP PRIMER
- Tot TOTAL
- TS TIME SWITCH
- Typ TYPICAL
- UH UNIT HEATER
- UR URINAL
- V VENT
- VAC VOLTAGE, ALTERNATING CURRENT
- VEEF VEHICLE ENGINE EXHAUST FAN
- VEEHR VEHICLE ENGINE EXHAUST HOSE REEL
- VR VENT RISER
- VTR VENT THRU ROOF
- W WIDTH
- W/ WITH
- W/O WITHOUT
- WB WET BULB
- WC WATER CLOSET
- WD WATER DROP
- W.C. WATER COLUMN
- W.H. WALL HYDRANT
- WH WALL HEATER
- WP WEATHERPROOF

DESIGN BY <b>Chris Faria</b> CHECKED <b>Seve Gutierrez</b> DETAILS BY <b>Chris Faria</b> CHECKED <b>Seve Gutierrez</b> QUANTITIES BY <b>Chris Faria</b> CHECKED <b>Seve Gutierrez</b>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. <b>33M5785</b> POST MILE <b>X</b>	<b>SFOBB WAREHOUSE</b> BUILDING 1 <b>LEGENDS AND ABBREVIATIONS</b>	SHEET <b>M0-0</b>	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-25-13 2-21-14	SHEET OF	
	TAEWW Imperial - CCSC Rev. 01/13 C:\expedite\0413001331_sfoobb_maint_warehouse\M0_0.dgn					

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### UNIT HEATER SCHEDULE

UNIT No.	TYPE	CFM	CAPACITY		Kw	ELECTRICAL	WEIGHT (Lbs)	COMMENT	USE
			BTU/H INPUT	BTU/H OUTPUT					
UH-1	GAS	456	30,000	24,600	-	115V	55		BRIDGE PAINT ROOM (100)
UH-2	GAS	456	30,000	24,600	-	115V	55		BRIDGE PAINT ROOM (100)
UH-3	ELECTRIC	650	-	-	3	240V, 1Φ	110	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (111)
UH-4	ELECTRIC	650	-	-	3	240V, 1Φ	110	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (118)
UH-5	ELECTRIC	510	-	-	2	240V, 1Φ	45		TRAVELLER STORAGE ROOM (119)
UH-6	GAS	629	45,000	37,350	-	115V	60		SAS STORAGE ROOM (120A)
UH-7	GAS	629	45,000	37,350	-	115V	60		SAS STORAGE ROOM (120A)
UH-8	ELECTRIC	510	-	-	4	240V, 1Φ	45		SAS STORAGE ROOM (120B)
UH-9	GAS	629	45,000	37,350	-	115V	60		TOLL BRIDGE STORAGE ROOM (123)
UH-10	GAS	629	45,000	37,350	-	115V	60		TOLL BRIDGE STORAGE ROOM (123)
UH-11	ELECTRIC	650	-	-	3	240V, 1Φ	110	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (134A)
UH-12	ELECTRIC	510	-	-	4	240V, 1Φ	45		BULK PAINT STORAGE ROOM (134B)
UH-13	ELECTRIC	650	-	-	3	240V, 1Φ	110	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (135)

### DEHUMIDIFIER SCHEDULE

UNIT No.	PROCESS CFM	PROCESS ESP In WC	REACT CFM	REACT ESP In WC	CAPACITY (Lb/Hr)	ELECTRICAL	WEIGHT (Lbs)	USE
DH-1	175	.60	58	.40	5.9	240V, 1Φ	158	TRAVELER STORAGE ROOM (119)
DH-2	100	.70	34	.45	3.3	240V, 1Φ	139	HUMIDITY CONTROL ENCLOSURE IN SAS STORAGE ROOM (120A)
DH-3	100	.70	34	.45	3.3	240V, 1Φ	139	HUMIDITY CONTROL ENCLOSURE IN SAS STORAGE ROOM (120A)
DH-4	100	.70	34	.45	3.3	240V, 1Φ	139	HUMIDITY CONTROL ENCLOSURE IN SAS STORAGE ROOM (120A)
DH-5	100	.70	34	.45	3.3	240V, 1Φ	139	HUMIDITY CONTROL ENCLOSURE IN SAS STORAGE ROOM (120A)
DH-6	175	.60	58	.40	5.9	240V, 1Φ	158	SAS STORAGE ROOM (120B)

### EXHAUST FAN SCHEDULE

UNIT No.	CFM	ESP INCHES	HP	ELECTRICAL	WEIGHT (Lbs)	COMMENT	USE
EF-1	600	3/8	1/6	115V	45	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (111)
EF-2	600	3/8	1/6	115V	45	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (118)
EF-3	225	1/4	1/12	115V	35		OFFICE AREA
EF-4	600	3/8	1/6	115V	45	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (134A)
EF-5	830	3/8	1/4	115V	45	EXPLOSION PROOF	HAZ MAT STORAGE ROOM (135)
EF-6	1800	3/8	1/2	115V	71		D.O. STORAGE ROOMS (137 & 136)
EF-7	170	1/8	1/25	115V	29		ELECTRICAL ROOM (138)
EF-8	19,200	1 1/2	20	460V 3Φ	2000	HIGH PLUME TYPE	BLAST BOOTH
EF-9	19,200	1 1/2	20	460V 3Φ	2000	HIGH PLUME TYPE	SPRAY BOOTH
EF-10	210	1	1/4	115V	50		MIX BOOTH

### CIRCULATION FAN SCHEDULE

UNIT No.	CFM	BLADE SIZE INCHES	HP	ELECTRICAL	WEIGHT (Lbs)	COMMENT	USE
CF-1	5000	24	1/3	120V	40		TOLL BRIDGE REGIONAL WAREHOUSE STORAGE ROOM (123)
CF-2	5000	24	1/3	120V	40		TOLL BRIDGE REGIONAL WAREHOUSE STORAGE ROOM (123)

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 Reviewed by: *Ingri P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		247	371

*Christopher M. Faria* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE  
 3-24-14  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA

### HEAT PUMP SCHEDULE

UNIT No.	OUTDOOR UNIT					INDOOR CEILING MOUNTED UNIT 1A & 1B					SEER	USE
	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	TOTAL INPUT (Kw)	ELECTRICAL	WEIGHT (Lbs)	CFM	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	ELECTRICAL	WEIGHT (Lbs)		
A/C-1	18,000	20,000	2,190	230V, 1Φ	130	320	8,400	10,900	230V, 1Φ	36	16	OFFICE AREA

### MAKE-UP AIR UNIT SCHEDULE

UNIT No.	TYPE	CFM	ESP INCHES	HP	HEATING CAPACITY MBH		ELECTRICAL	WEIGHT (Lbs)	COMMENT	USE
					INPUT	OUTPUT				
MAU-1	GAS	18,200	1	15	1,150	1,060	460V 3Φ	3500		SPRAY BOOTH

### BLAST & RECOVERY UNIT SCHEDULE

UNIT No.	BLAST MEDIA	CFM	ESP INCHES	MEDIA HOPPER CUBIC FEET	FAN Hp	ELECTRICAL	COMMENT	USE
BRU-1	KLEEN BLAST	800	42	10.5	10	460V 3Φ		BLAST BOOTH
BRU-2	STEEL SHOT	800	42	10.5	10	460V 3Φ		BLAST BOOTH

### WALL HEATER SCHEDULE

UNIT No.	TYPE	CFM	WATT	ELECTRICAL	WEIGHT (lbs)	COMMENT	USE
WH-1	ELECTRIC	160	1125	240V, 1Φ	25	SURFACE MOUNT	STORAGE ROOM (106)
WH-2	ELECTRIC	160	1125	240V, 1Φ	25	SURFACE MOUNT	STORAGE ROOM (113)

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*Solomon C. Wong* 2-21-14  
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Reviewed by: *Ignacio P. Casiano*  
IGNACIO P. CASIANO  
Approval date: 02-11-14

**CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST** (Part 1 of 4) **MECH-1C**

Project Name: **SFOBB Warehouse** Date: **10/22/2013**

Project Address: **Burma Rd. Post Mile 1.8/2.5 Oakland** Climate Zone: **3** Total Cond. Floor Area: **23,338** Addition Floor Area: **n/a**

**GENERAL INFORMATION**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel Guest Room  
 Schools (Public School)  Relocatable Public School Bldg.  Conditioned Spaces  Unconditioned Spaces (affidavit)

Phase of Construction:  New Construction  Addition  Alteration

Approach of Compliance:  Component  Overall Envelope TDV Energy  Unconditioned (file affidavit)

Front Orientation: N, E, S, W or in Degrees: **0 deg**

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	DHW Heater	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	Gas Fired DHW Boiler	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	1	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	199,900 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	0.92 EF	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	n/a	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	n/a	<input type="checkbox"/>	<input type="checkbox"/>

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	Warehouse Office System	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	Split DX	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	1	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	20,400 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	7.70 HSPF	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	18,000 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	16.0 SEER / 10.5 EER	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	n/a	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	No Economizer	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	Setback Required	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	Constant Volume	<input type="checkbox"/>	<input type="checkbox"/>

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.  
2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.  
3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

EnergyPro 5.1 by EnergySoft User Number: 3478 RunCode: 2013-10-22T14:42:13 ID: EA 04000000381 Page 25 of 68

**CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST** (Part 1 of 4) **MECH-1C**

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Front Orientation: N, E, S, W or in Degrees: **0 deg**

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	District Warehouse System	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	Split DX	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	2	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	45,000 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	93% AFUE	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	0 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	n/a	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	No Economizer	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	No Setback Required	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	Constant Volume	<input type="checkbox"/>	<input type="checkbox"/>

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	S.A.S. System	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	Split DX	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	0	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	30,000 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	93% AFUE	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	0 Btu/hr	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	n/a	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	No Economizer	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	No Setback Required	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	Constant Volume	<input type="checkbox"/>	<input type="checkbox"/>

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EnergyPro 5.1 by EnergySoft User Number: 3478 RunCode: 2013-10-22T14:42:13 ID: EA 04000000381 Page 26 of 68

DESIGN BY: <b>Solomon Wong</b>	CHECKED: <b>Seve Gutierrez</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE	SHEET M0-3
	DETAILS BY: <b>Angela Chen</b>			CHECKED: <b>Seve Gutierrez</b>		
QUANTITIES BY: <b>Solomon Wong</b>	CHECKED: <b>Seve Gutierrez</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

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30-APR-2014 10:26

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**CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST** (Part 1 of 4) **MECH-1C**

Project Name: **SFOBB Warehouse** Date: **10/22/2013**

Project Address: **Burma Rd. Post Mile 1.8/2.5 Oakland** Climate Zone: **3** Total Cond. Floor Area: **23,338** Addition Floor Area: **n/a**

**GENERAL INFORMATION**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel Guest Room  
 Schools (Public School)  Relocatable Public School Bldg.  Conditioned Spaces  Unconditioned Spaces (affidavit)

Phase of Construction:  New Construction  Addition  Alteration

Approach of Compliance:  Component  Overall Envelope TDV Energy  Unconditioned (file affidavit)

Front Orientation: N, E, S, W or in Degrees: **0 deg**

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>Facility Management &amp; D.O. System</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	<i>Split DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>0</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	<i>30,000 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	<i>4.20 HSPF</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	<i>0 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	<i>n/a</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins, vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>Bridge Paint System</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	<i>Split DX</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>2</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	<i>30,000 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	<i>93% AFUE</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	<i>0 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	<i>n/a</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins, vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>No Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.  
 2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.  
 3. Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

EnergyPro 5.1 by EnergySoft User Number: 3478 RunCode: 2013-10-22T14:42:13 ID: EA 0400000381 Page 27 of 68

**CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST** (Part 1 of 4) **MECH-1C**

Project Name: **SFOBB Warehouse** Date: **10/22/2013**

Project Address: **Burma Rd. Post Mile 1.8/2.5 Oakland** Climate Zone: **3** Total Cond. Floor Area: **23,338** Addition Floor Area: **n/a**

**GENERAL INFORMATION**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel Guest Room  
 Schools (Public School)  Relocatable Public School Bldg.  Conditioned Spaces  Unconditioned Spaces (affidavit)

Phase of Construction:  New Construction  Addition  Alteration

Approach of Compliance:  Component  Overall Envelope TDV Energy  Unconditioned (file affidavit)

Front Orientation: N, E, S, W or in Degrees: **0 deg**

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>SF Travel Paint System</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	<i>Room PTAC</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	<i>3,842 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	<i>3.40 HSPF</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	<i>0 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	<i>n/a</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins, vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>No Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

Equipment <sup>2</sup>	Inspection Criteria	FIELD INSPECTION ENERGY CHECKLIST	
		Meets Criteria or Requirements	Pass
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	<i>Oakland Travel Paint System</i>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment Type <sup>3</sup> :	<i>Room PTAC</i>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Systems	<i>1</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Heating Capacity <sup>1</sup>	<i>3,842 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Heating Efficiency <sup>1</sup>	<i>3.40 HSPF</i>	<input type="checkbox"/>	<input type="checkbox"/>
Max Allowed Cooling Capacity <sup>1</sup>	<i>0 Btu/hr</i>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling Efficiency <sup>1</sup>	<i>n/a</i>	<input type="checkbox"/>	<input type="checkbox"/>
Duct Location/ R-Value	<i>Attic, Ceiling Ins, vented / 8.0</i>	<input type="checkbox"/>	<input type="checkbox"/>
When duct testing is required, submit MECH-4A & MECH-4-HERS	<i>No</i>	<input type="checkbox"/>	<input type="checkbox"/>
Economizer	<i>No Economizer</i>	<input type="checkbox"/>	<input type="checkbox"/>
Thermostat	<i>No Setback Required</i>	<input type="checkbox"/>	<input type="checkbox"/>
Fan Control	<i>Constant Volume</i>	<input type="checkbox"/>	<input type="checkbox"/>

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EnergyPro 5.1 by EnergySoft User Number: 3478 RunCode: 2013-10-22T14:42:13 ID: EA 0400000381 Page 28 of 68

DESIGN BY: <b>Solomon Wong</b> CHECKED: <b>Seve Gutierrez</b>		DIVISION OF ENGINEERING SERVICES	BRIDGE No. <b>33M5785</b>	<b>SFOBB WAREHOUSE</b> BUILDING 1 TITLE 24	SHEET <b>M0-4</b> OF
DETAILS BY: <b>Angela Chen</b> CHECKED: <b>Seve Gutierrez</b>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE <b>X</b>		
QUANTITIES BY: <b>Solomon Wong</b> CHECKED: <b>Seve Gutierrez</b>		DEPARTMENT OF TRANSPORTATION			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 04-16-13, 11-25-13, 02-21-14

TAEMWW Imperial - CCSC Rev. 01/13

30-APR-2014 10:26

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

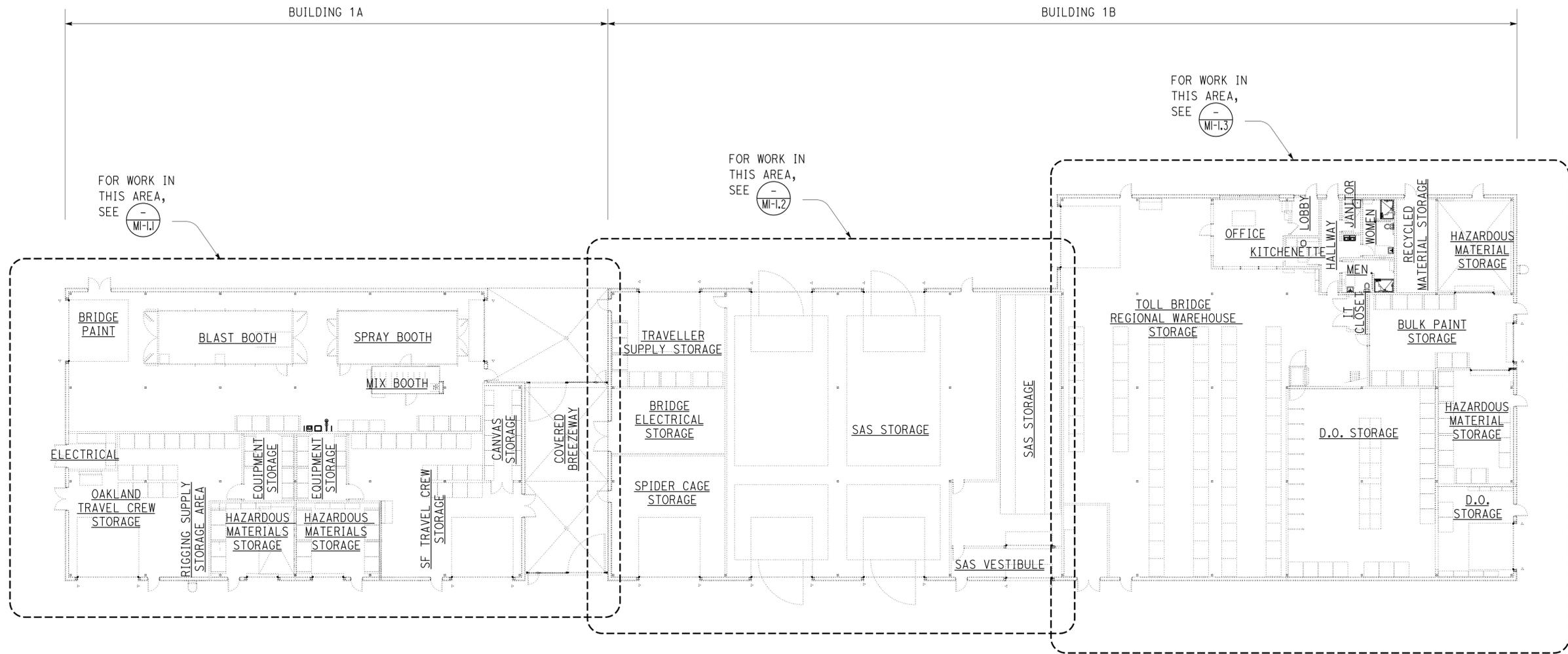
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		253	371

*Christopher M. Faria* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**FLOOR PLAN**

1/16" = 1'-0"



DESIGN BY Chris Faria CHECKED Seve Gutierrez	DETAILS BY Chris Faria CHECKED Seve Gutierrez	QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> BUILDING 1 <b>FLOOR PLAN</b>	SHEET <b>M1-1.0</b>
					POST MILE X		
					UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		
TAEWW Imperial - CCSC Rev. 01/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	04-16-13 11-25-13 2-21-14	C:\exped\te\0413001331_sfobb_maint_warehouse\M1_1_0.dgn		

30-APR-2014 10:26

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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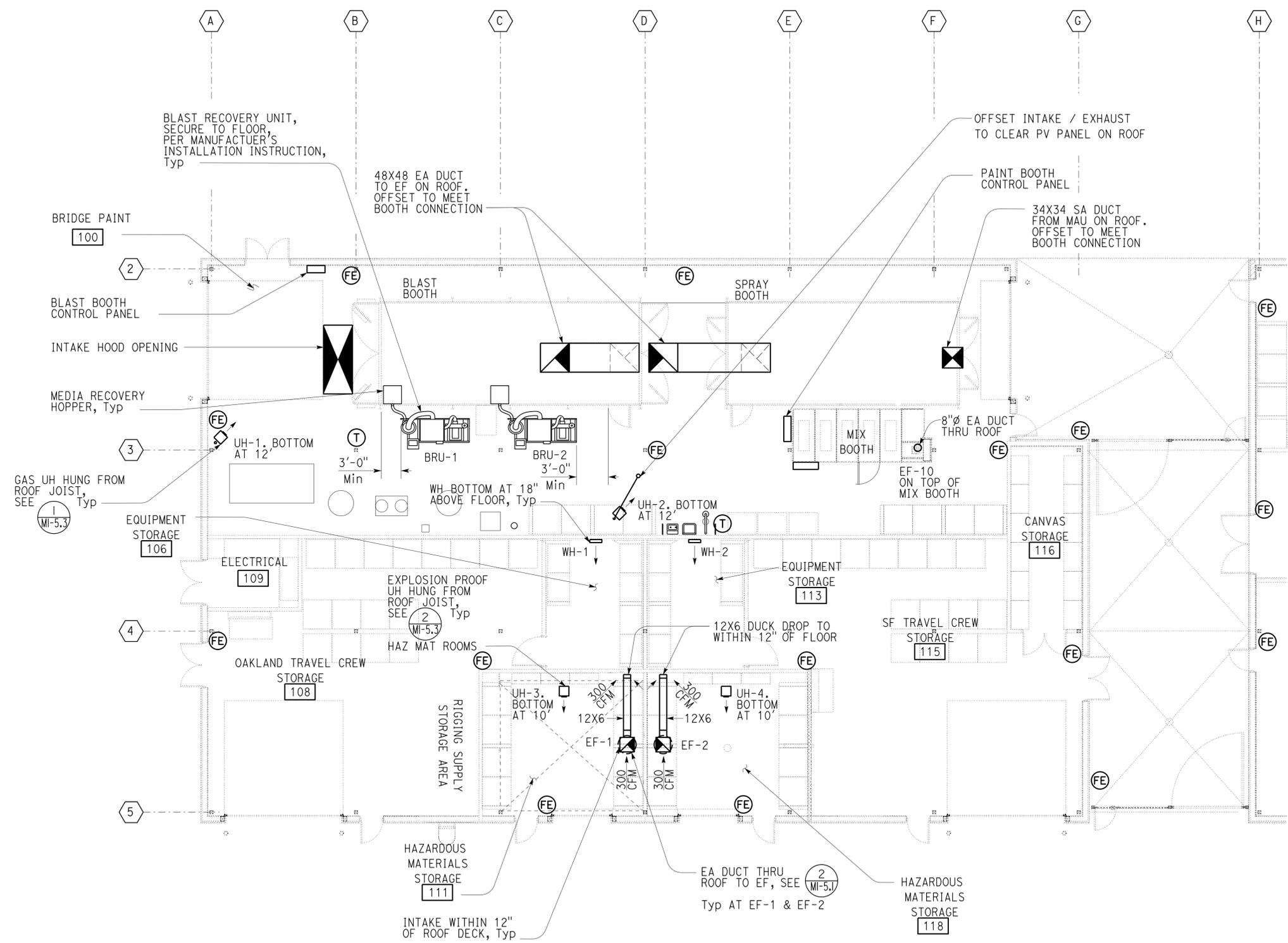
  

<i>Christopher M. Faria</i> 2-21-14 REGISTERED MECHANICAL ENGINEER DATE		
3-24-14 PLANS APPROVAL DATE		
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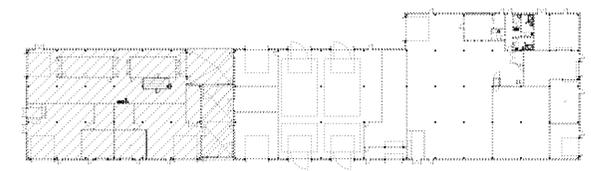
Reviewed by: *David P. Casiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14



**PARTIAL FLOOR PLAN**  
 1/8" = 1'-0"



NOTE:  
 All fire extinguishers are 4A-40B:C



DESIGN BY: Chris Faria CHECKED: Seve Gutierrez DETAILS BY: Chris Faria CHECKED: Seve Gutierrez QUANTITIES BY: Chris Faria CHECKED: Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No.	<b>SFOBB WAREHOUSE</b>		SHEET
			33M5785	BUILDING 1A		<b>M1-1.1</b>
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	POST MILE X DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13		0 1 2 3		04-16-13 11-25-13 2-21-14		OF

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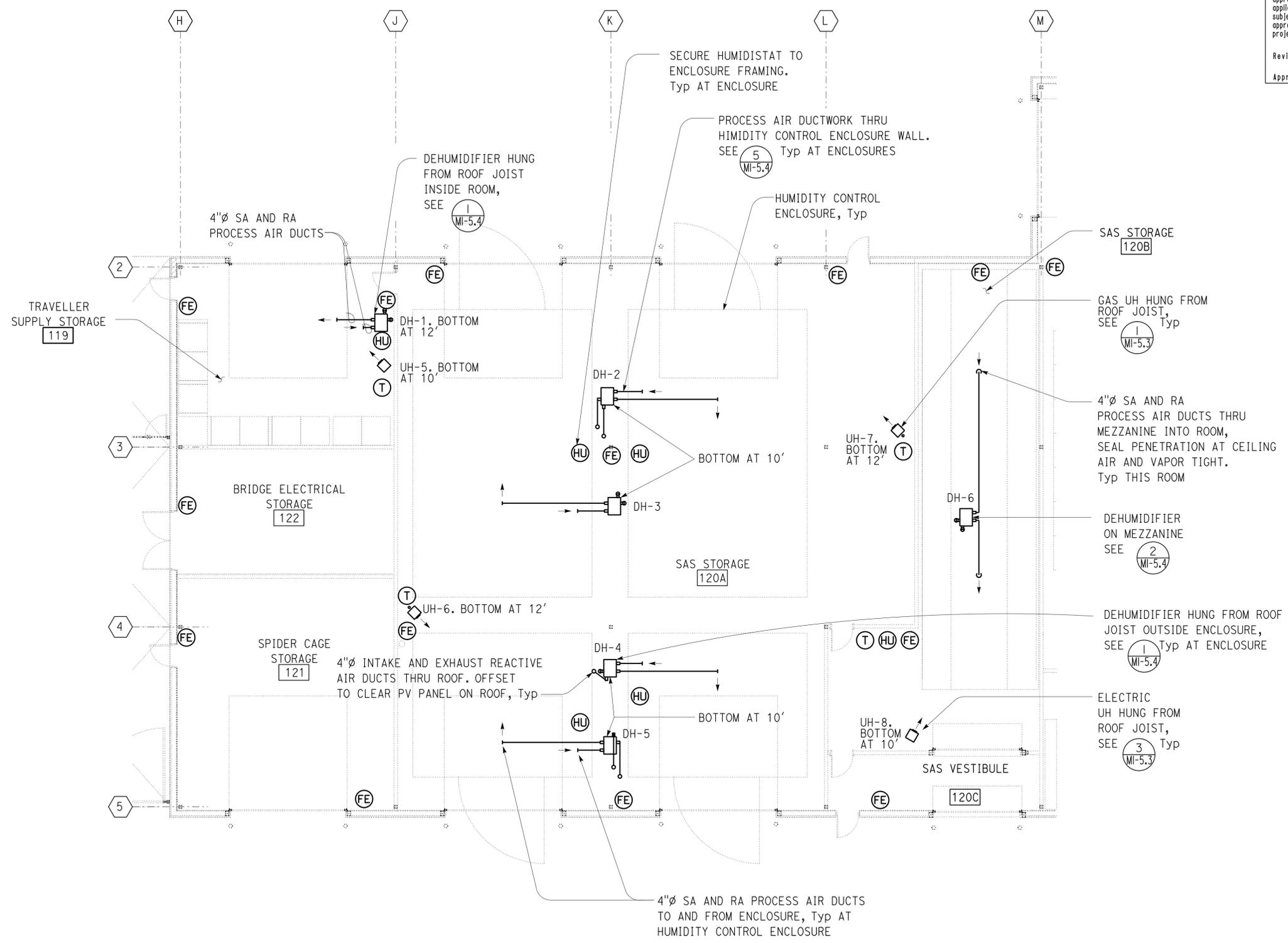
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		255	371

*Christopher M. Faria* 2-21-14  
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3-24-14  
 PLANS APPROVAL DATE

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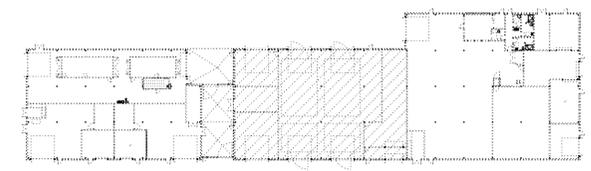
REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**PARTIAL FLOOR PLAN**  
 1/8" = 1'-0"



NOTE:  
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DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET M1-1.2
				POST MILE X	BUILDING 1B	PARTIAL FLOOR PLAN - B	
DETAILS BY Chris Faria	CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		SHEET OF	

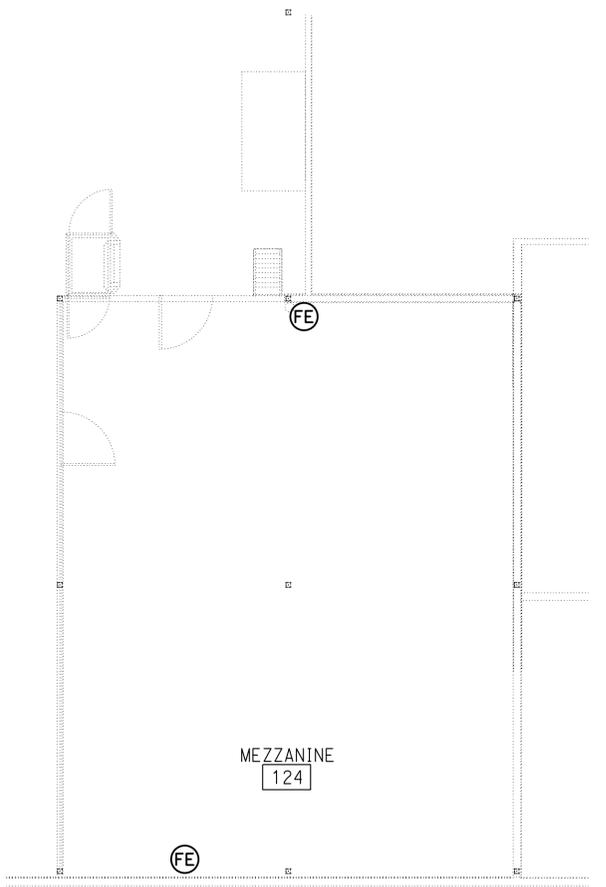
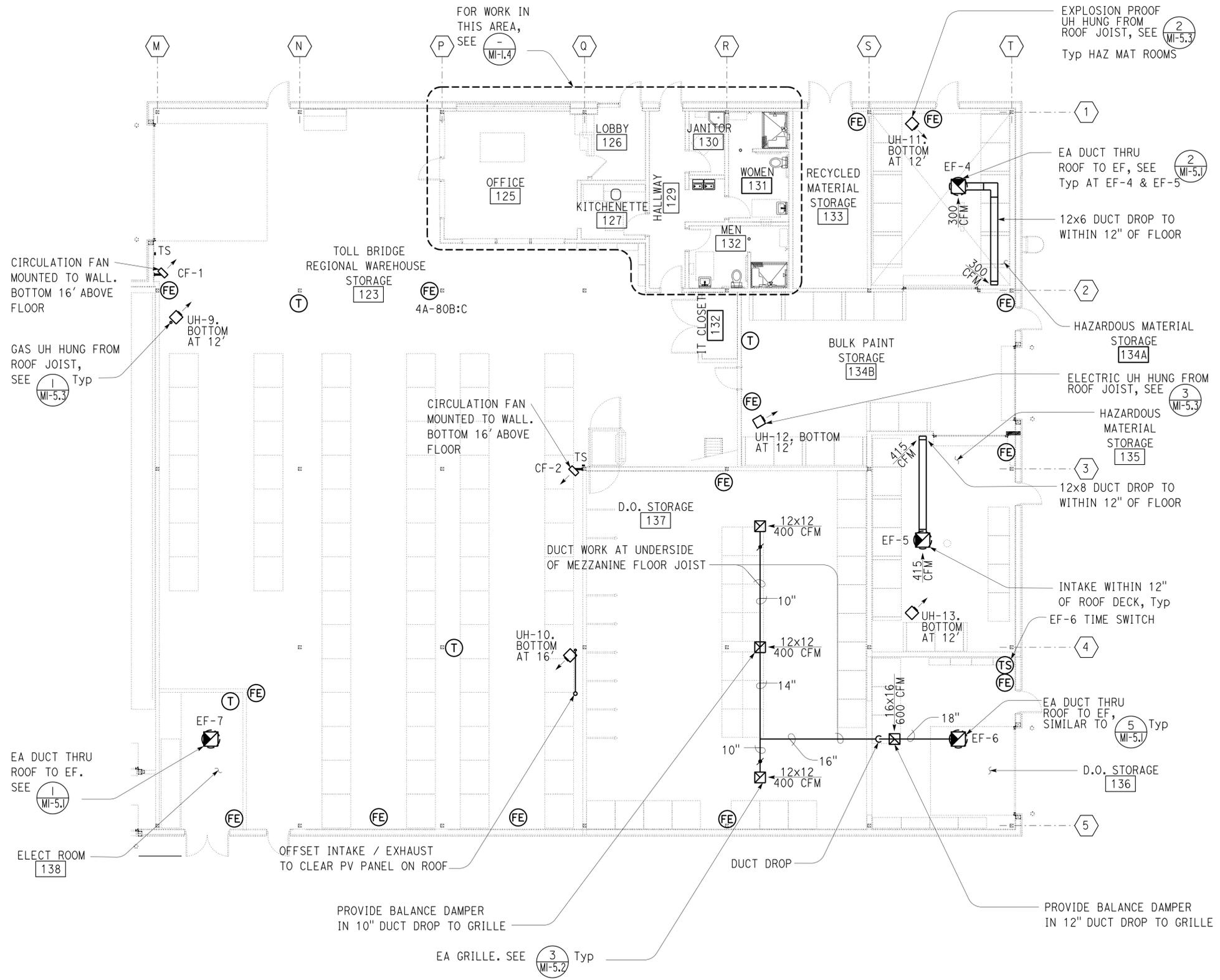
TAEWW Imperial - CCSC Rev. 01/13  
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		256	371
<p><i>Christopher M. Faria</i> 2-21-14 REGISTERED MECHANICAL ENGINEER DATE</p> <p>3-24-14 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</p>					
					

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *David P. Casiano*  
INGRID P. ICASIANO  
Approval date: 02-11-14



**MEZZANINE PLAN**

1/8" = 1'-0"

**PARTIAL FLOOR PLAN**

1/8" = 1'-0"

NOTE:  
All fire extinguishers are 4A-40B:C unless noted otherwise

DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET M1-1.3
				33M5785	BUILDING 1B	PARTIAL FLOOR PLAN - C	
DETAILS BY Chris Faria	CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		POST MILE X	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-16-13   11-25-13   2-21-14		

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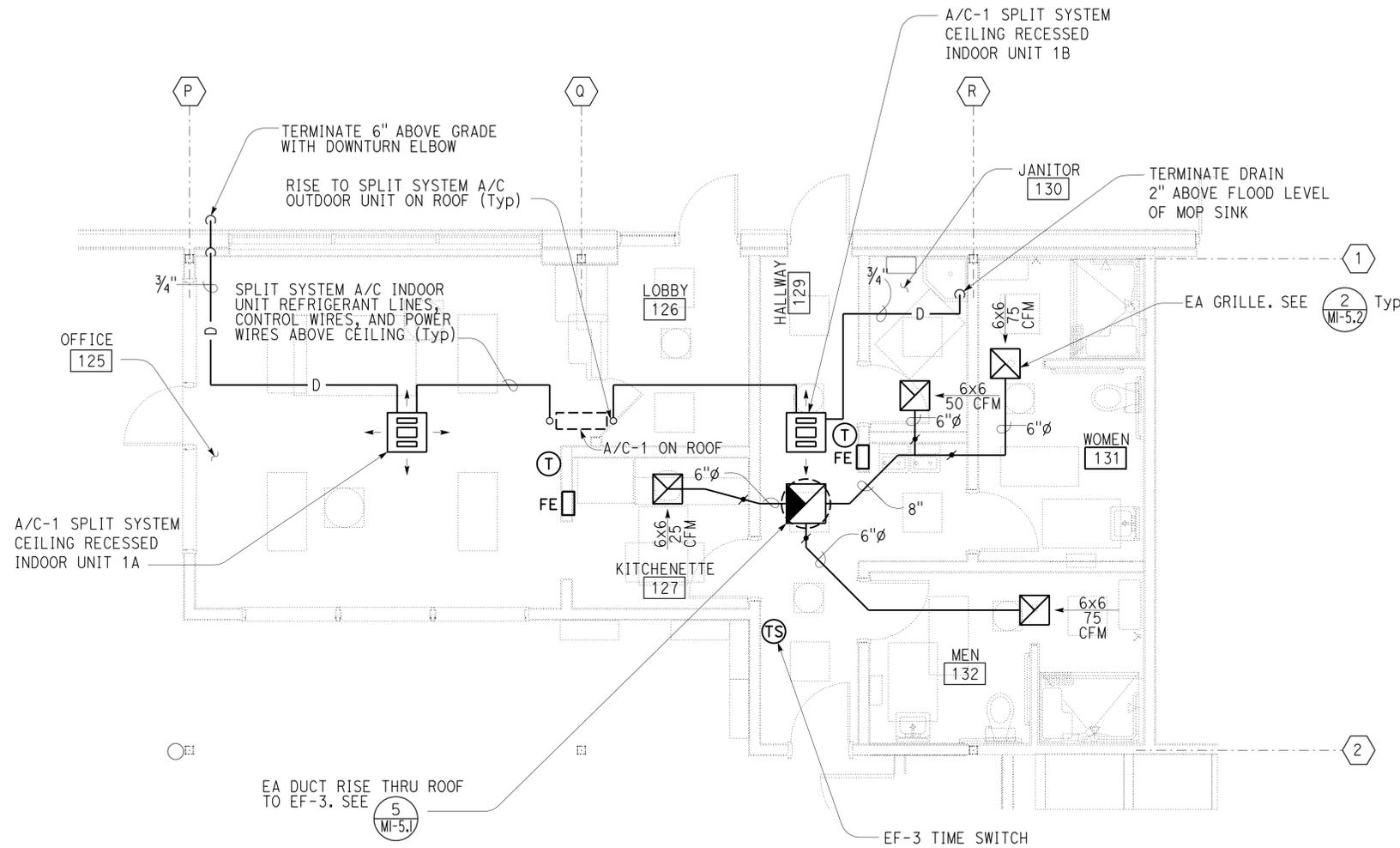
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Christopher M. Faria 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

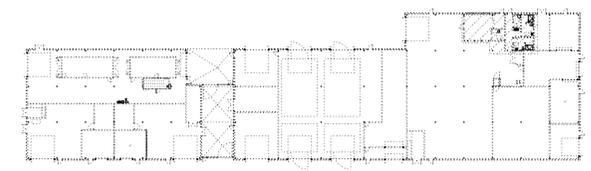
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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**PARTIAL FLOOR PLAN**  
 1/4" = 1'-0"

NOTE:  
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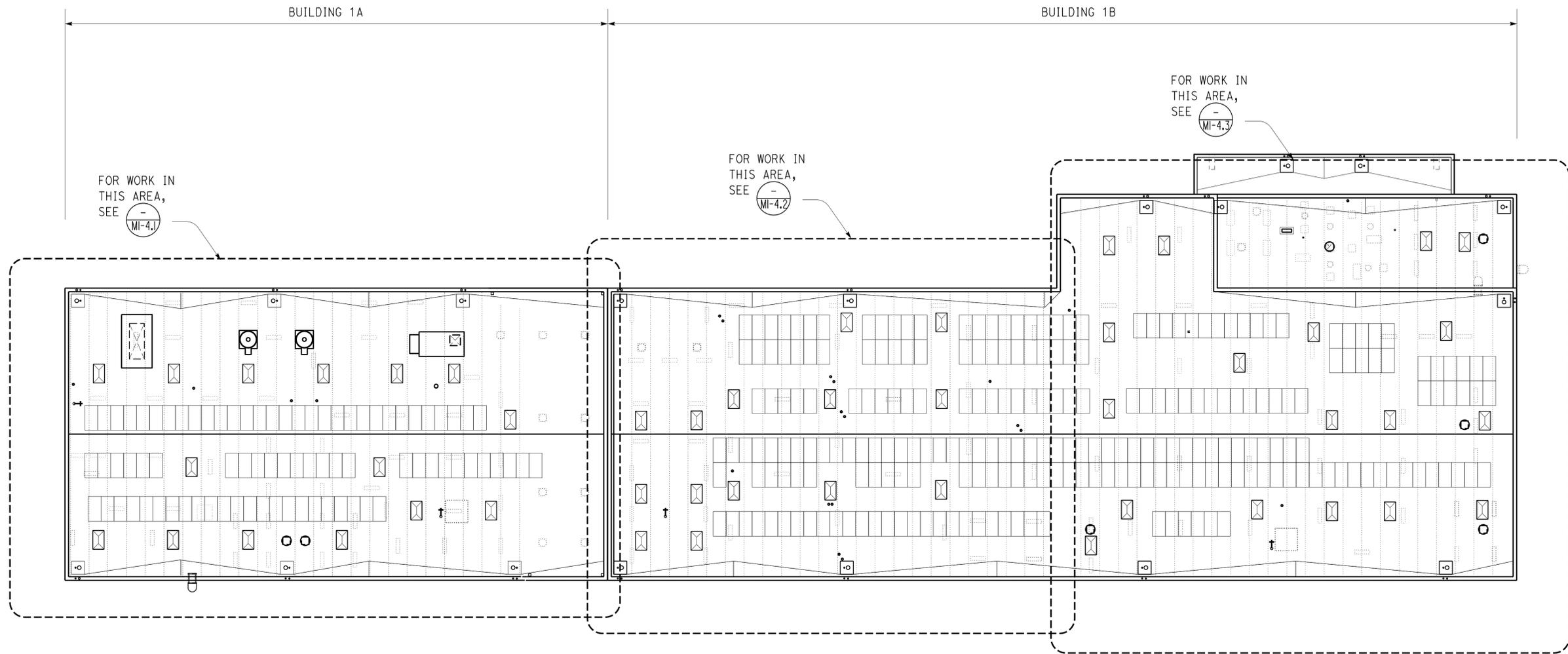


DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET M1-1.4
				POST MILE X	BUILDING 1B	PARTIAL FLOOR PLAN	
DETAILS BY Chris Faria	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez			04-16-13 11-25-13 2-21-14		SHEET	OF

TAEWW Imperial - CCSC Rev. 01/13  
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		258	371
<i>Christopher M. Faria</i> 2-21-14 REGISTERED MECHANICAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14



**ROOF PLAN**

1/16" = 1'-0"



DESIGN BY Chris Faria CHECKED Seve Gutierrez	DETAILS BY Chris Faria CHECKED Seve Gutierrez	QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>  BUILDING 1 <b>ROOF PLAN</b>	SHEET <b>M1-4.0</b>
					POST MILE X		REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-25-13 2-21-14
TAEWW Imperial - CCSC Rev. 01/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		259	371

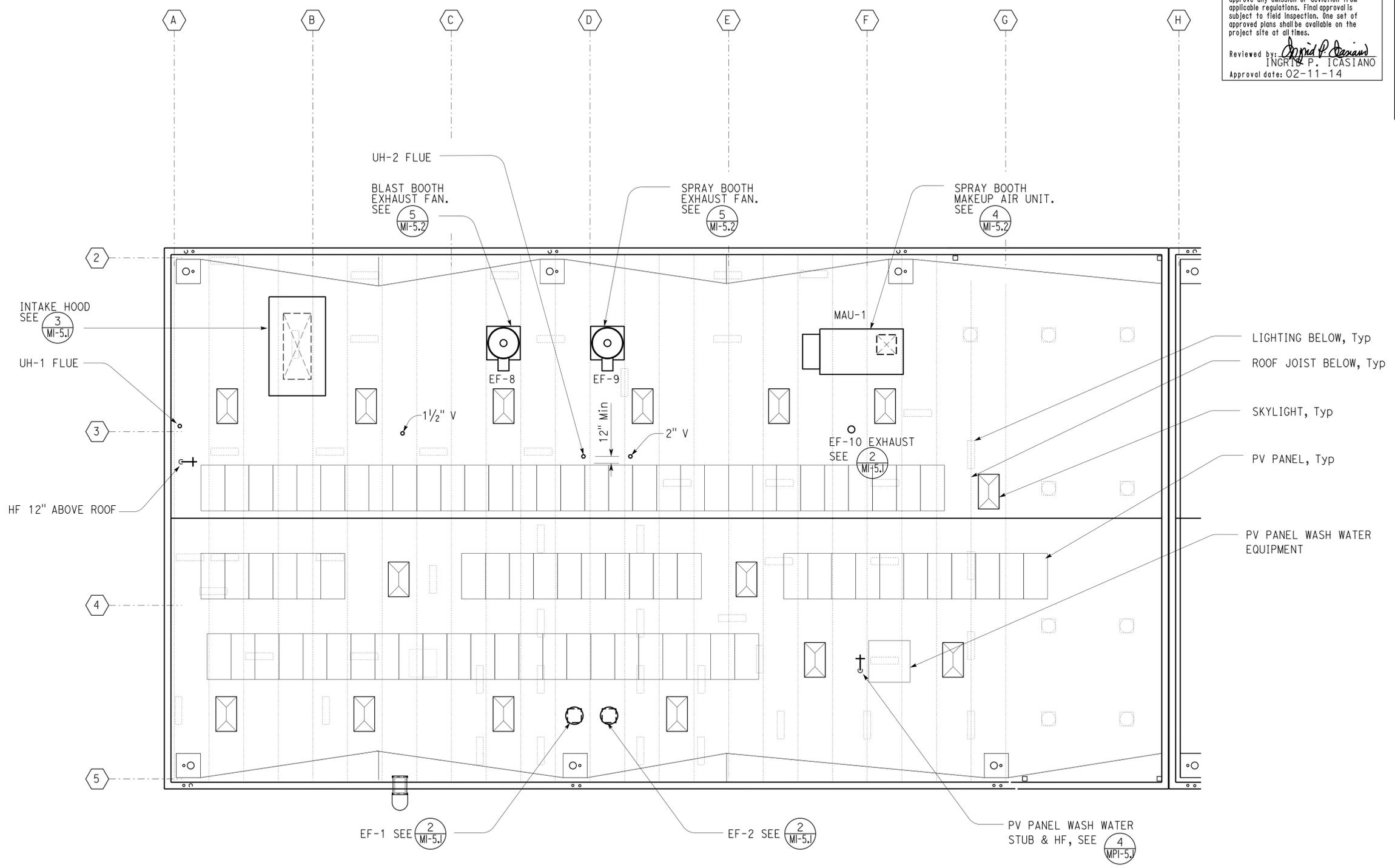
  

<i>Christopher M. Faria</i> 2-21-14 REGISTERED MECHANICAL ENGINEER DATE		
3-24-14 PLANS APPROVAL DATE		
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

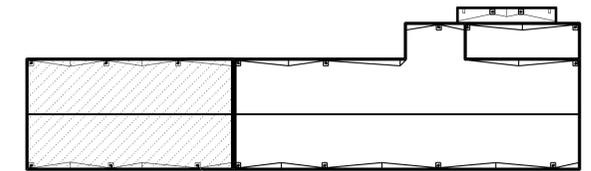
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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14



**PARTIAL ROOF PLAN**  
 1/8" = 1'-0"

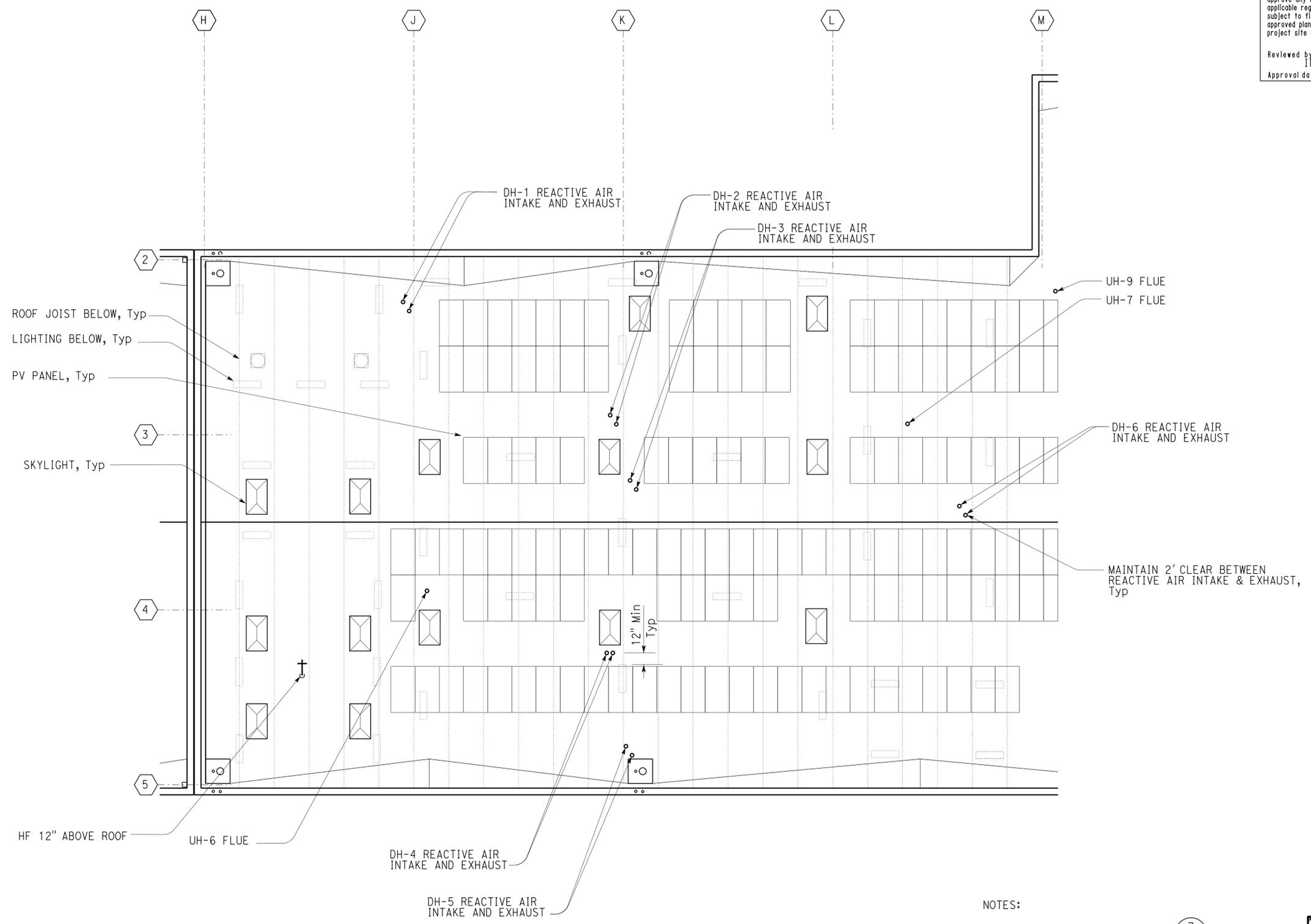
NOTE:  
 1. For unit heater flue, see 1 MI-5.3



DESIGN BY Chris Faria CHECKED Seve Gutierrez DETAILS BY Chris Faria CHECKED Seve Gutierrez QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>		SHEET <b>M1-4.1</b>
			POST MILE X	BUILDING 1A	PARTIAL ROOF PLAN - A	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13   11-25-13   2-21-14	SHEET OF

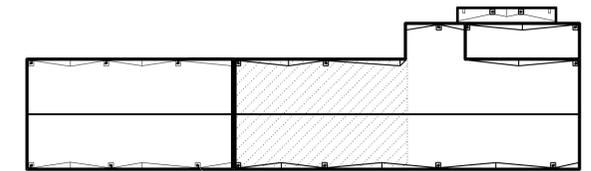
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		260	371
<p><i>Christopher M. Faria</i> 2-21-14  REGISTERED MECHANICAL ENGINEER DATE</p> <p>3-24-14  PLANS APPROVAL DATE</p> <p><i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i></p>					
					

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14



**PARTIAL ROOF PLAN**  
1/8" = 1'-0"

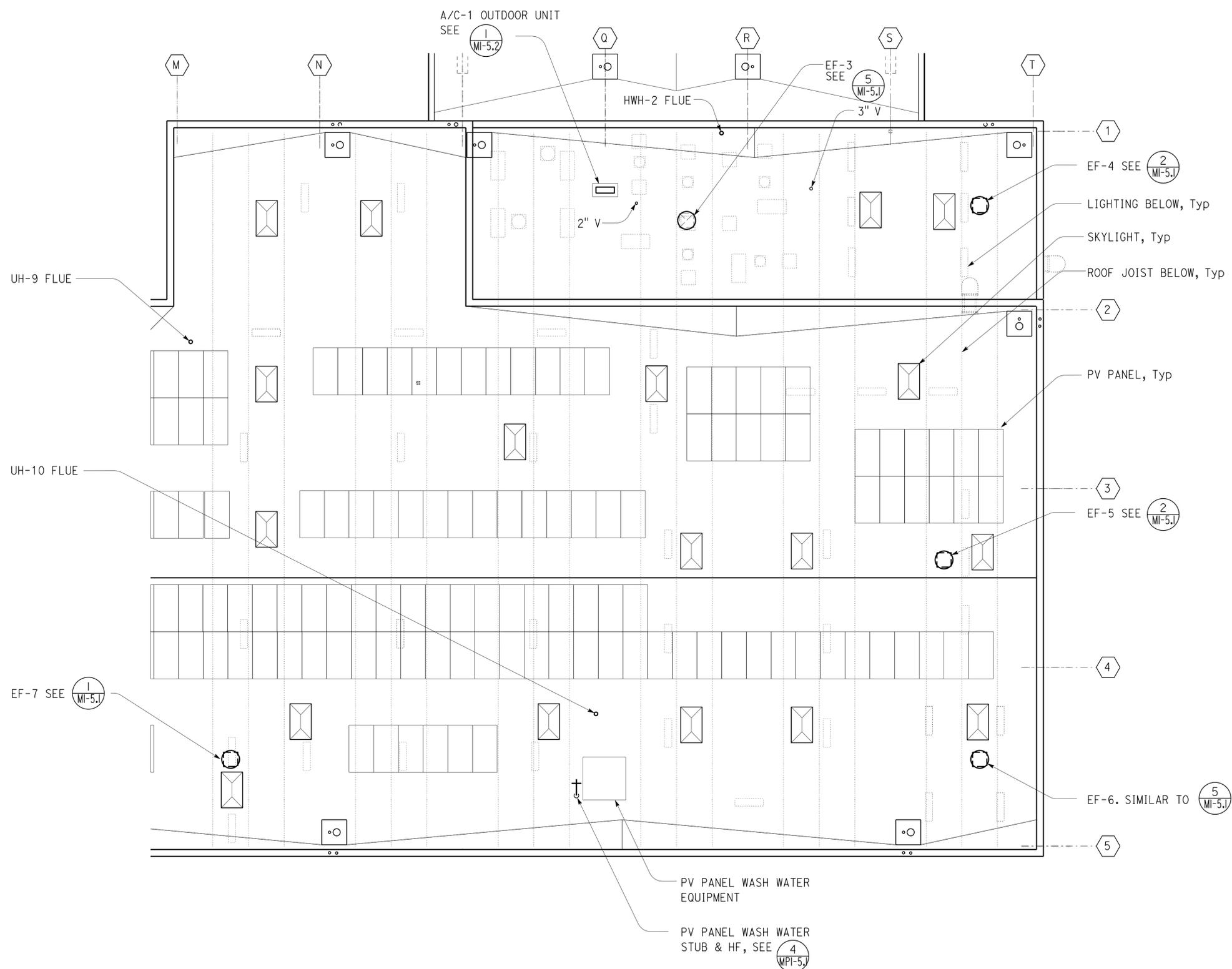
- NOTES:
- For reactive air intake, see (3) MI-5.4
  - For reactive air exhaust, see (4) MI-5.4
  - For unit heater flue, see (1) MI-5.3



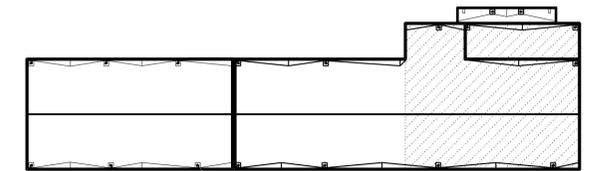
DESIGN BY Chris Faria CHECKED Seve Gutierrez	DETAILS BY Chris Faria CHECKED Seve Gutierrez	QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>		SHEET
					POST MILE X	BUILDING 1B	PARTIAL ROOF PLAN - B	<b>M1-4.2</b>
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13   11-25-13   2-21-14	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13			0 1 2 3		C:\expedite\0413001331_sfobb_maint_warehouse\M1_4_2.dgn		30-APR-2014 10:27	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		261	371
<p><i>Christopher M. Faria</i> 2-21-14  REGISTERED MECHANICAL ENGINEER DATE</p> <p>3-24-14  PLANS APPROVAL DATE</p> <p><i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i></p>					
					

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INGRID P. ICASIANO  
Approval date: 02-11-14



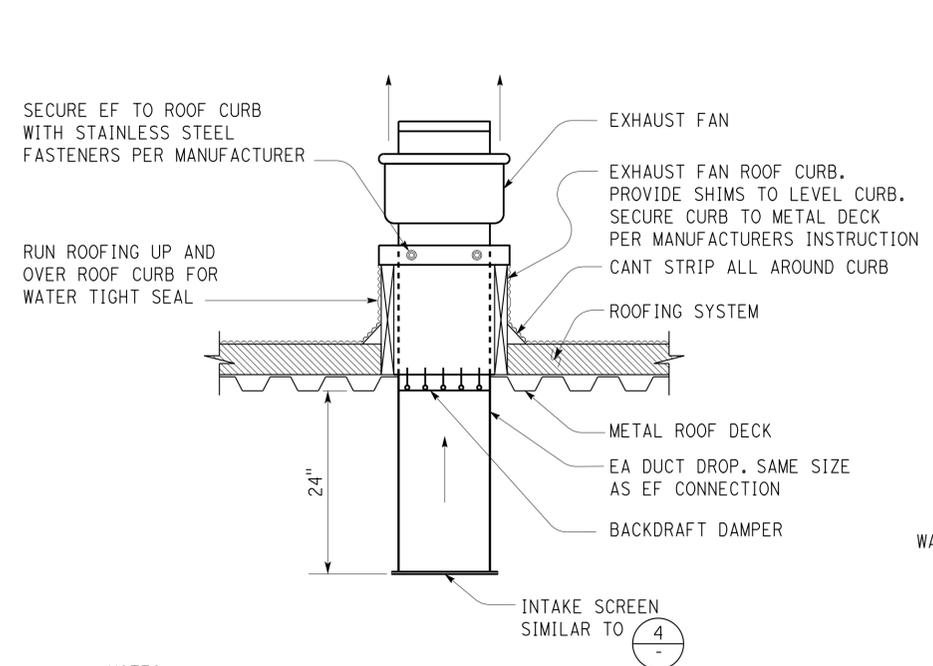
NOTE:  
For unit heater flue, see (1 MI-5.3)



**PARTIAL ROOF PLAN**  
1/8" = 1'-0"

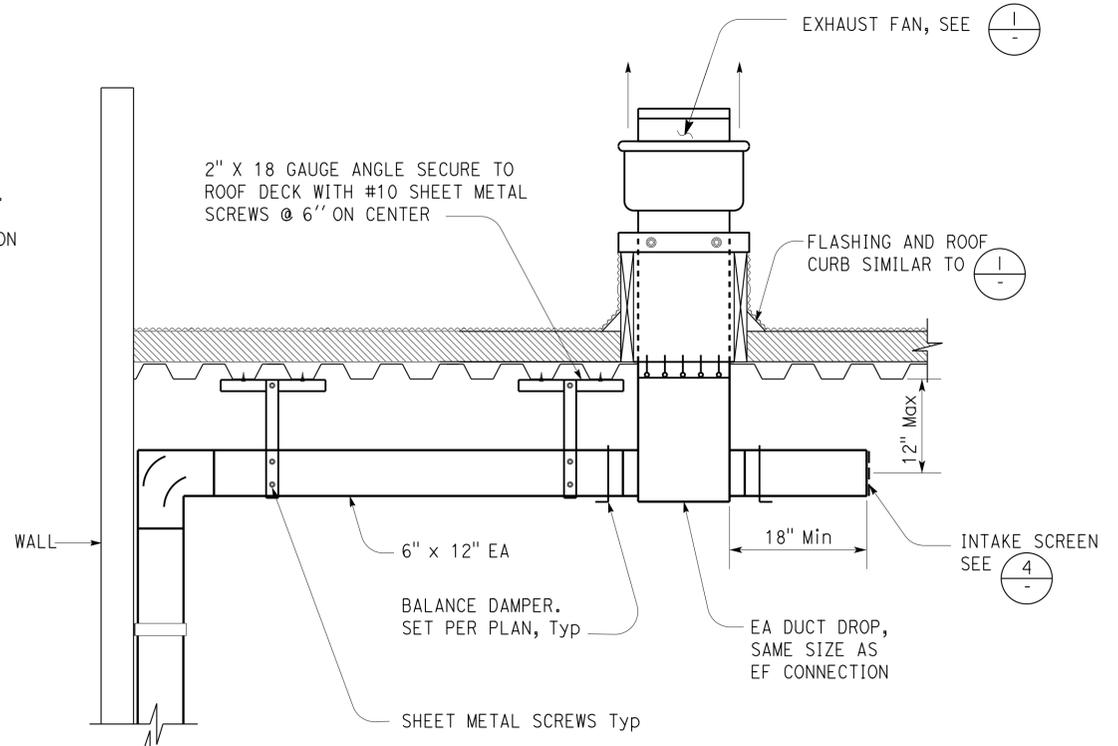
DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET M1-4.3
				33M5785	BUILDING 1B	PARTIAL ROOF PLAN - C	
DETAILS BY Chris Faria	CHECKED Seve Gutierrez			POST MILE			
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez			X			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
0 1 2 3				04-16-13 11-25-13 2-21-14		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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<p>Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE</p> <p>3-24-14 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</p>					
<p>REGISTERED PROFESSIONAL ENGINEER Chris Faria No. M 30419 Exp. 12-31-15 MECH STATE OF CALIFORNIA</p>					

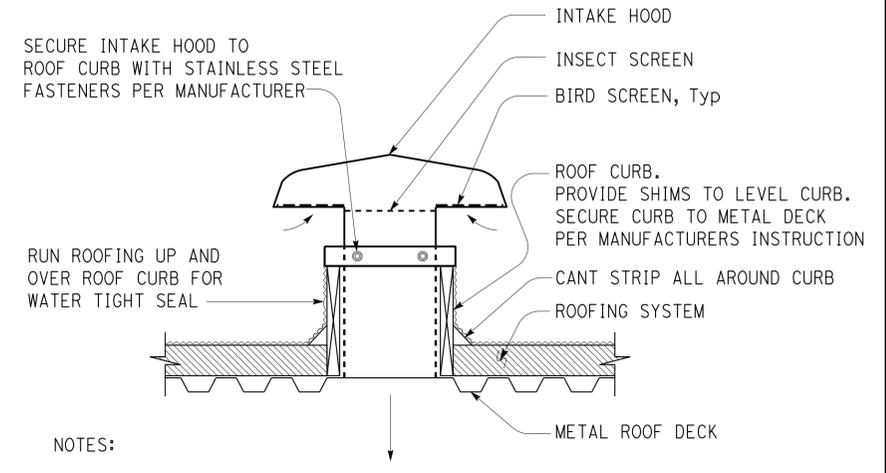


- NOTES:
1. Seal EA duct to roof curb and roof curb to EF for air tight seal.
  2. Route electrical service inside roof curb to EF.

**1 EXHAUST FAN**

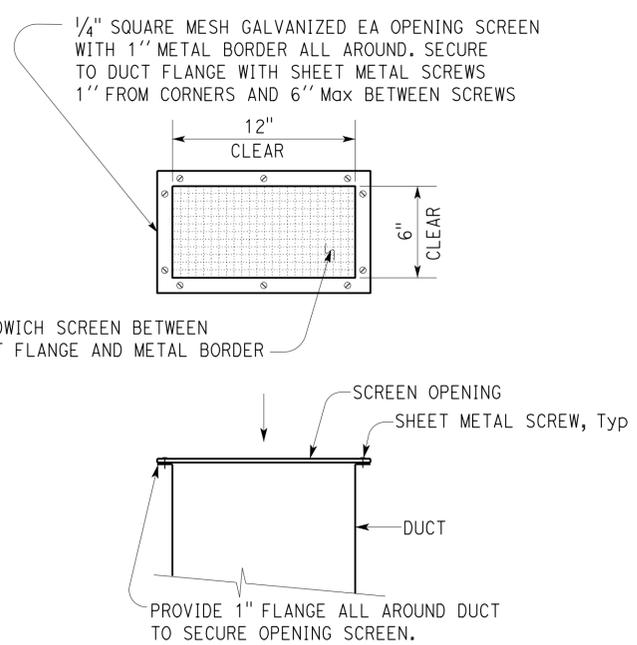


**2 EXHAUST FAN HAZARDOUS MATERIAL ROOMS**

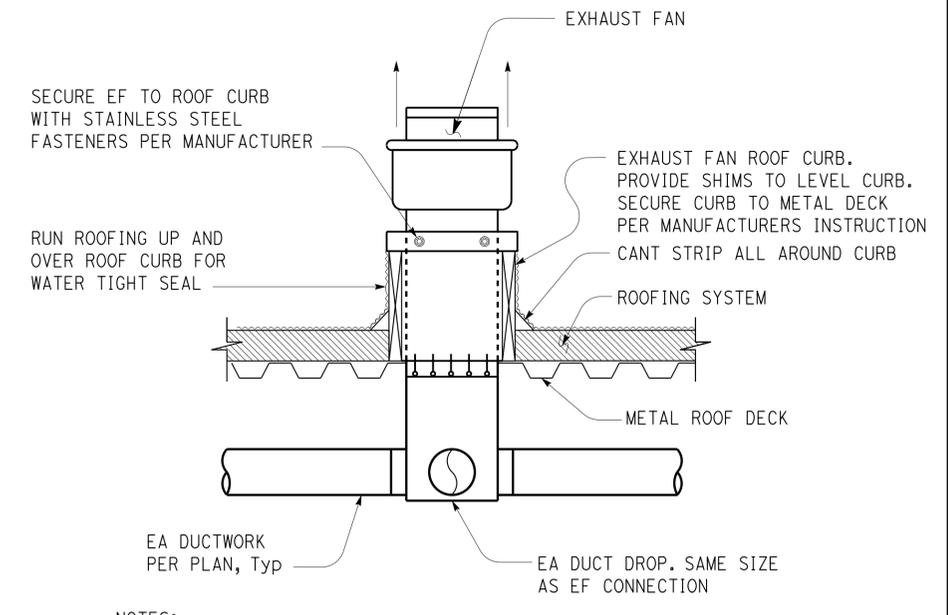


- NOTES:
1. Seal intake hood to roof curb for air tight seal.

**3 INTAKE HOOD**



**4 INTAKE SCREEN**



- NOTES:
1. Seal EA duct to roof curb and roof curb to EF for air tight seal.
  2. Route electrical service inside roof curb to EF.

**5 EXHAUST FAN**

NO SCALE

DESIGN	BY	Chris Faria	CHECKED	Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET M1-5.1		
	DETAILS	BY	Chris Faria	CHECKED			Seve Gutierrez	33M5785	BUILDING 1		MECHANICAL DETAILS - 1	
	QUANTITIES	BY	Chris Faria	CHECKED			Seve Gutierrez	POST MILE	X		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-16-13 11-25-13 2-21-14	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13												

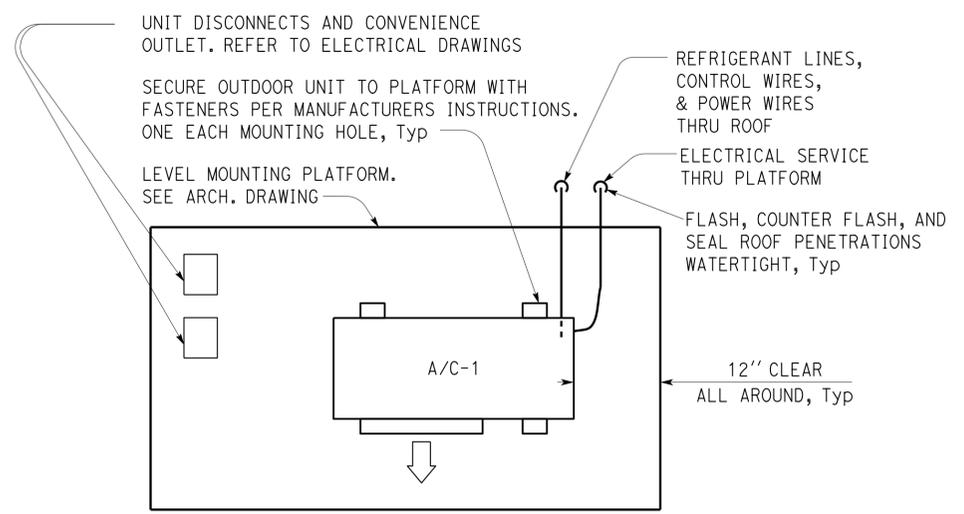
30-APR-2014 10:27

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		263	371

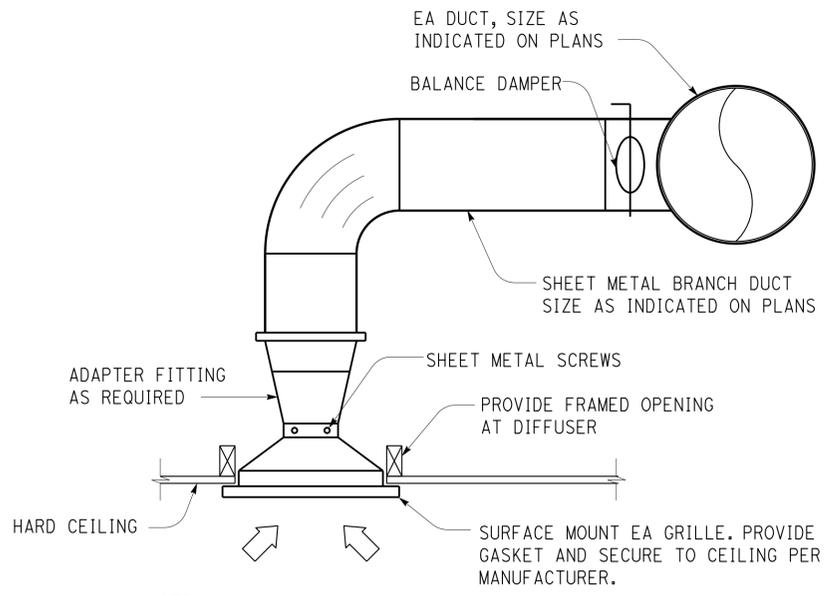
  

<b>CALIFORNIA STATE FIRE MARSHAL APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Christopher M. Faria</i> INGRID P. ICASIANO Approval date: 02-11-14		
Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE		
3-24-14 PLANS APPROVAL DATE		

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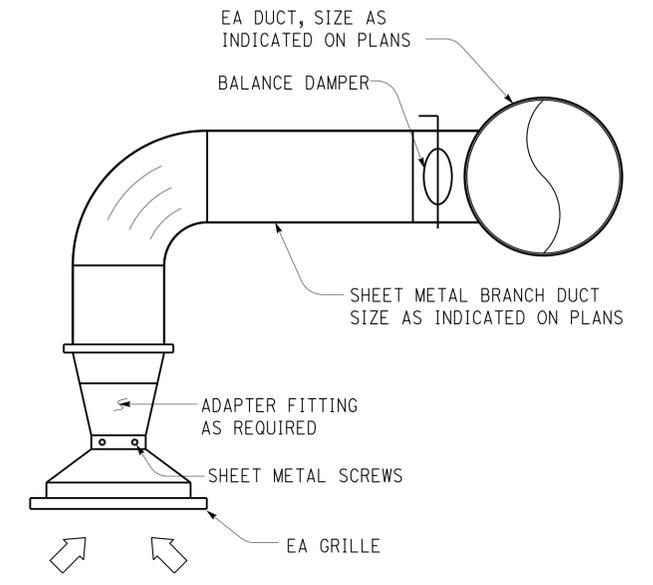


**1 SPLIT SYSTEM OUTDOOR UNIT MOUNTING DETAIL**

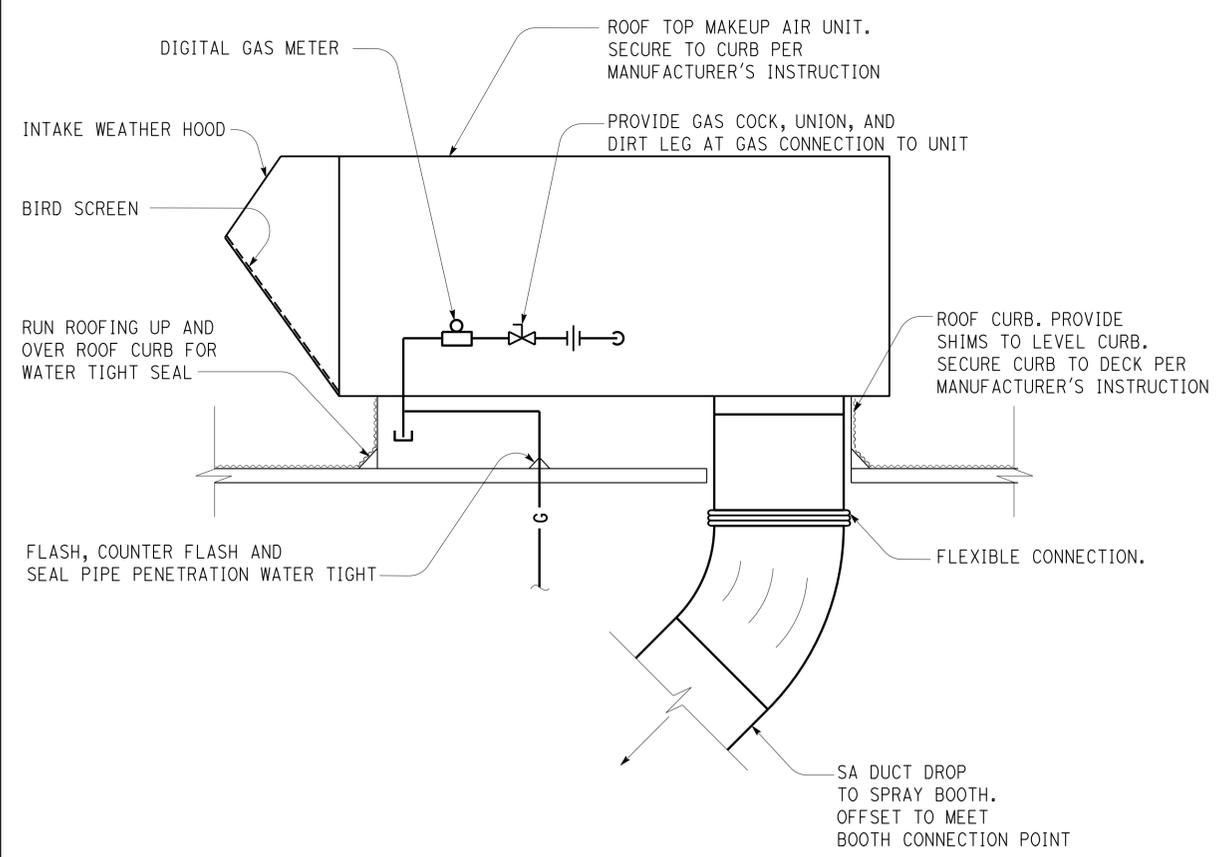


NOTE:  
At locations where the balance damper is above a hard ceiling provide a remote cable operated damper with a ceiling mounter operator.

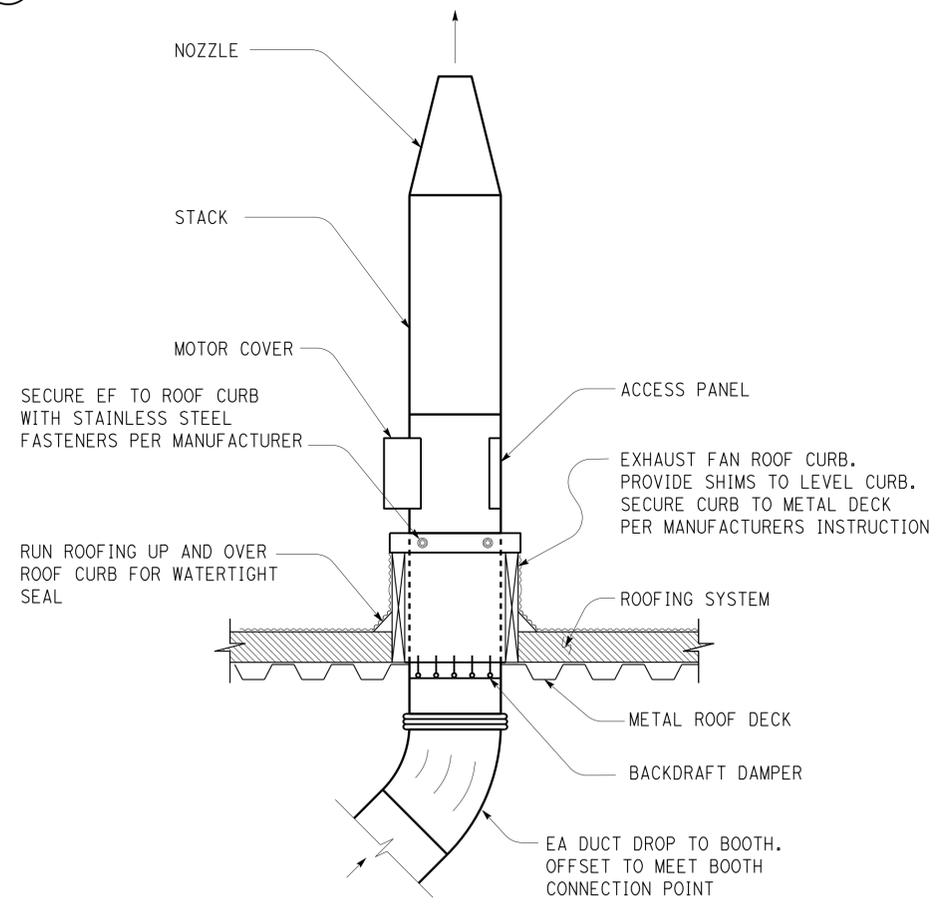
**2 GRILLE INSTALLATION (SURFACE MOUNT)**



**3 GRILLE INSTALLATION (NO CEILING)**



**4 MAKEUP AIR UNIT**



**5 BOOTH EXHAUST FAN**

NO SCALE

DESIGN BY Chris Faria CHECKED Seve Gutierrez DETAILS BY Chris Faria CHECKED Seve Gutierrez QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE X	SFOBB WAREHOUSE BUILDING 1 MECHANICAL DETAILS - 2	SHEET M1-5.2 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-25-13 2-21-14	SHEET OF	
	TAEWW Imperial - CCSC Rev. 01/13	C:\expedite\0413001331_sfobb_maint_warehouse\M1_5_2.dgn				

30-APR-2014 10:27

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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

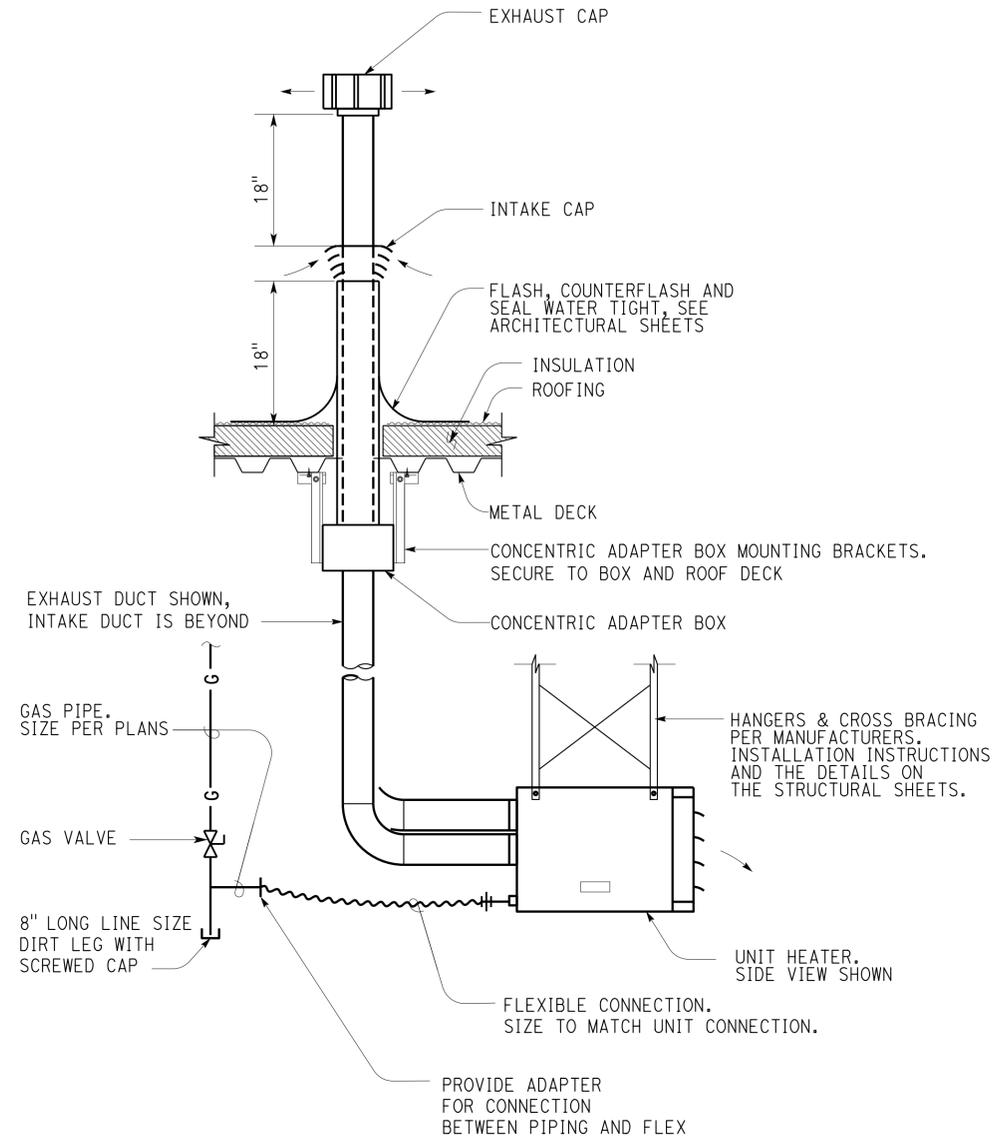
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		264	371

Christopher M. Faria 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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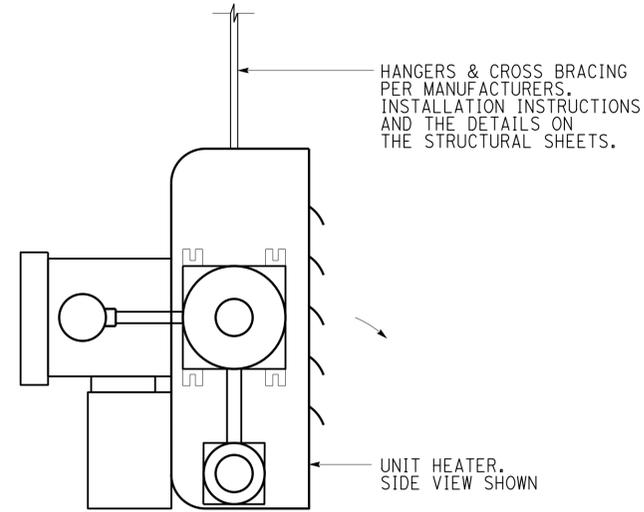
REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



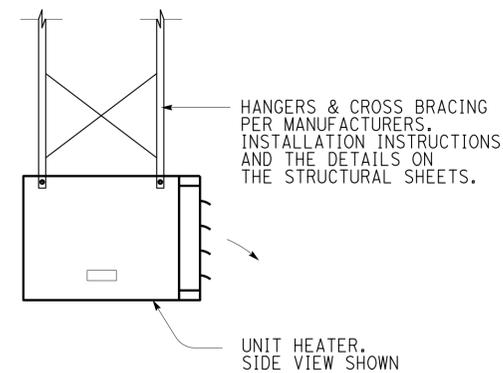
NOTE:

Concentric adapter box, hanging brackets, and caps must be supplied by unit heater manufacturer.

**1 GAS UNIT HEATER**



**2 EXPLOSION PROOF UNIT HEATER**

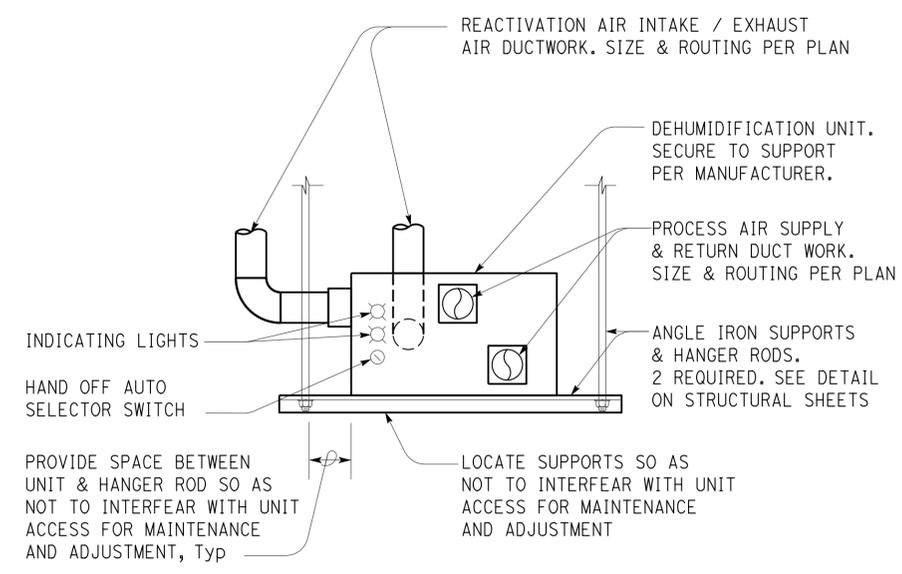


**3 ELECTRIC UNIT HEATER**

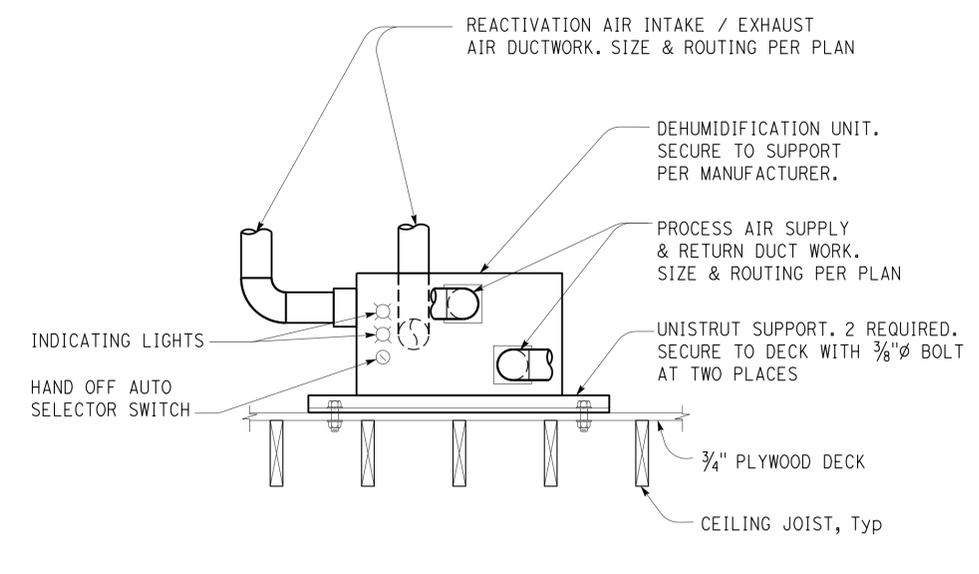
NO SCALE

DESIGN	BY	Chris Faria	CHECKED	Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 33M5785 POST MILE X	<b>SFOBB WAREHOUSE</b>		SHEET <b>M1-5.3</b>	
	DETAILS	BY	Chris Faria	CHECKED			Seve Gutierrez	BUILDING 1		MECHANICAL DETAILS - 3
	QUANTITIES	BY	Chris Faria	CHECKED			Seve Gutierrez	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13   11-25-13   2-21-14		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF		30-APR-2014 10:27	

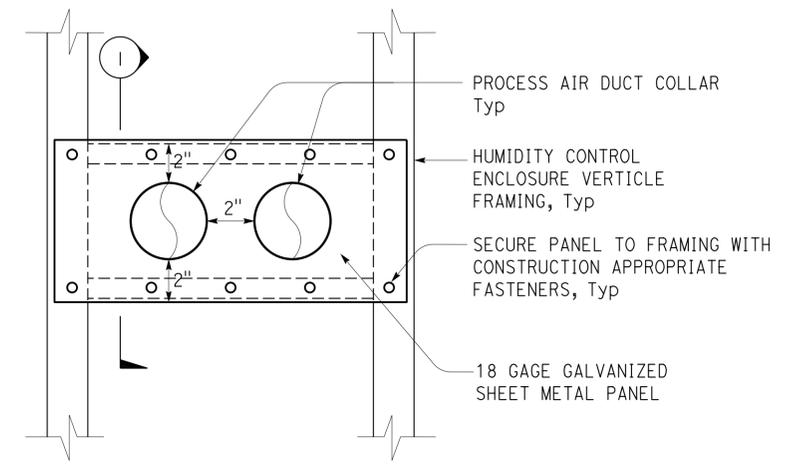
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		265	371
CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>David P. Casiano</i> INGRID P. ICASIANO Approval date: 02-11-14					
Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER Chris Faria No. M 30419 Exp. 12-31-15 MECH STATE OF CALIFORNIA					



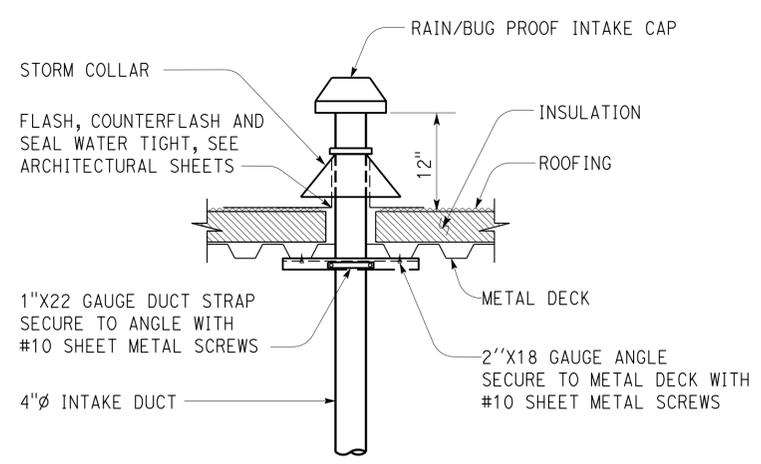
**1 DEHUMIDIFICATION UNIT (HANGING SUPPORT)**



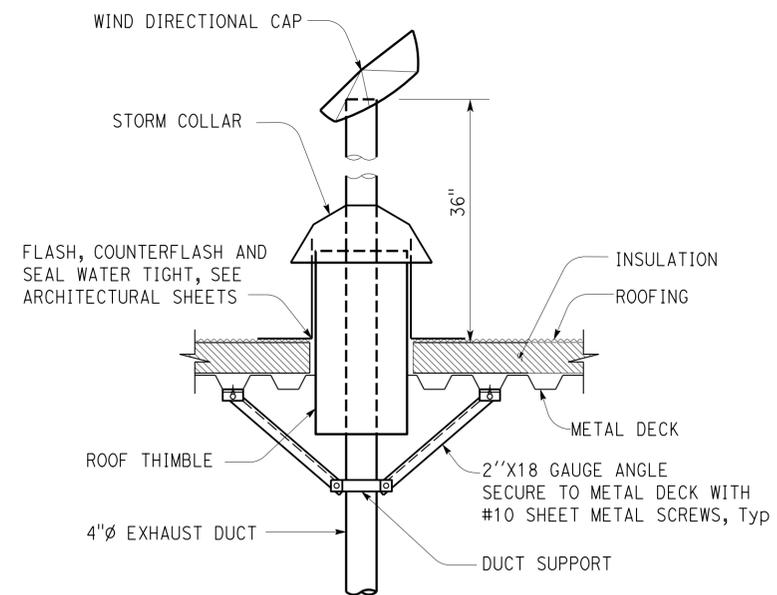
**2 DEHUMIDIFICATION UNIT (BASE SUPPORT)**



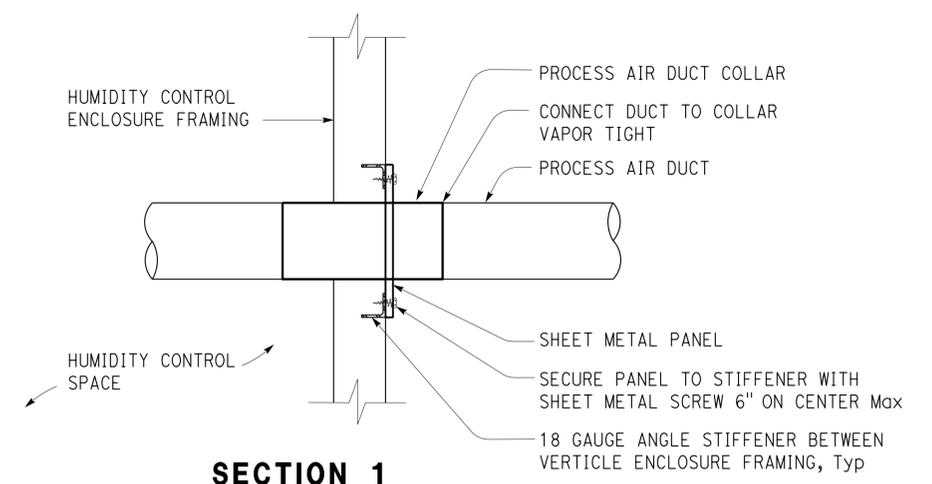
**ELEVATION**



**3 REACTIVE AIR INTAKE**



**4 REACTIVE AIR EXHAUST**



**SECTION 1**

**5 DUCT PENETRATION**

NO SCALE

DESIGN	BY	Chris Faria	CHECKED	Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET M1-5.4
	DETAILS	BY	Chris Faria	CHECKED			Seve Gutierrez	33M5785 POST MILE	BUILDING 1B	
QUANTITIES	BY	Chris Faria	CHECKED	Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		04-16-13 11-25-13 2-21-14				

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 INGRID P. CASIANO  
 Approval date: 02-11-14

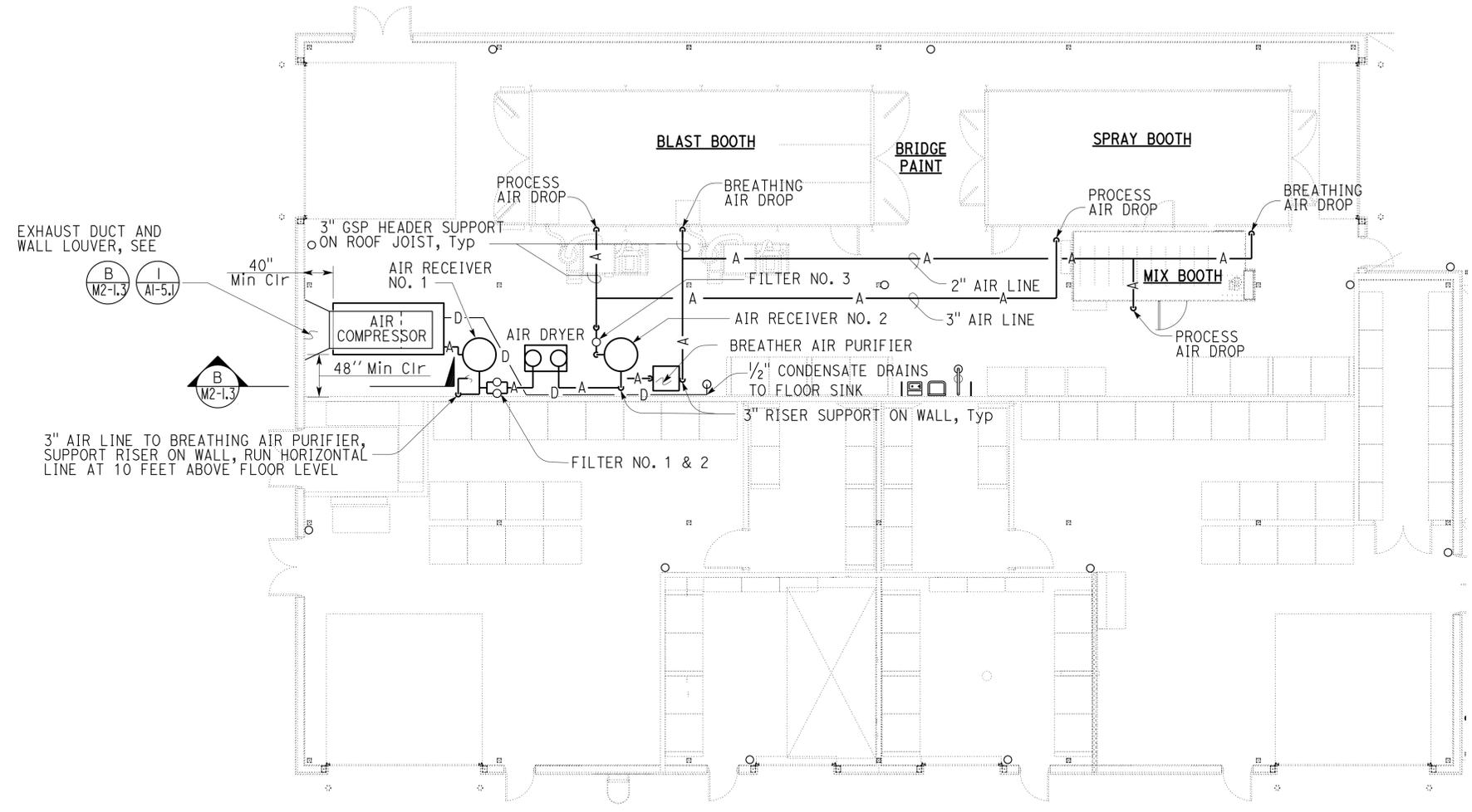
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		266	371

*Solomon C. Wong*  
 REGISTERED MECHANICAL ENGINEER DATE 2-21-14

3-24-14  
 PLANS APPROVAL DATE

**REGISTERED PROFESSIONAL ENGINEER**  
**SOLOMON WONG**  
 No. M 27626  
 Exp. 6-30-15  
 MECH  
 STATE OF CALIFORNIA

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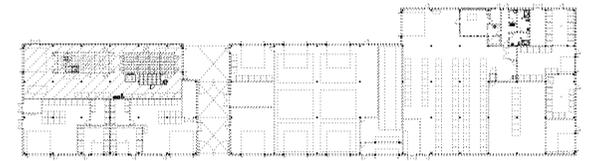


**NOTES:**

1. Provide copper drain lines for the air compressor, air dryer, receivers, breathing air purifier and filters. Route drain lines to the nearest floor drain.
2. Install all equipment to provide a minimum of 4 feet clearances in front of open panels.
3. Provide supports at 5 feet centers. Use floor or steel truss supports as required. For support details, see (M2-1.3)
4. Equipment layout and piping route may be modified as required to suit the actual equipment furnished with the approval of the Engineer.
5. Attach all equipment to floor with the manufacturers' recommended anchor pads and stainless steel concrete expansion anchor bolts.
6. Provide all reducers, couplings and appurtenances as required for the equipment provided.
7. Copper pipe to be soldered fittings, GSP pipe less than or equal to 2-inch to be threaded. GSP greater than 2-inch to be grooved with mechanical coupling or flanged.
8. Equipment access and maintenance clearances shall be as required by the manufacturers.
9. The location of the air drops and supply air inlets to the sand blasting, painting and mixing booths shall be as required by the sand blasting and spray painting equipment manufacturers.

**FLOOR PLAN**

1/8" = 1'-0"



**KEY PLAN**

DESIGN BY <b>Solomon Wong</b>	CHECKED BY <b>Seve Gutierrez</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET <b>M2-1.0</b>
				POST MILE X	BUILDING 1	COMPRESSED AIR SYSTEM	
DETAILS BY <b>Angela Chen</b>	CHECKED BY <b>Seve Gutierrez</b>	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <b>Solomon Wong</b>	CHECKED BY <b>Seve Gutierrez</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		04-16-13 11-29-13 2-21-14	

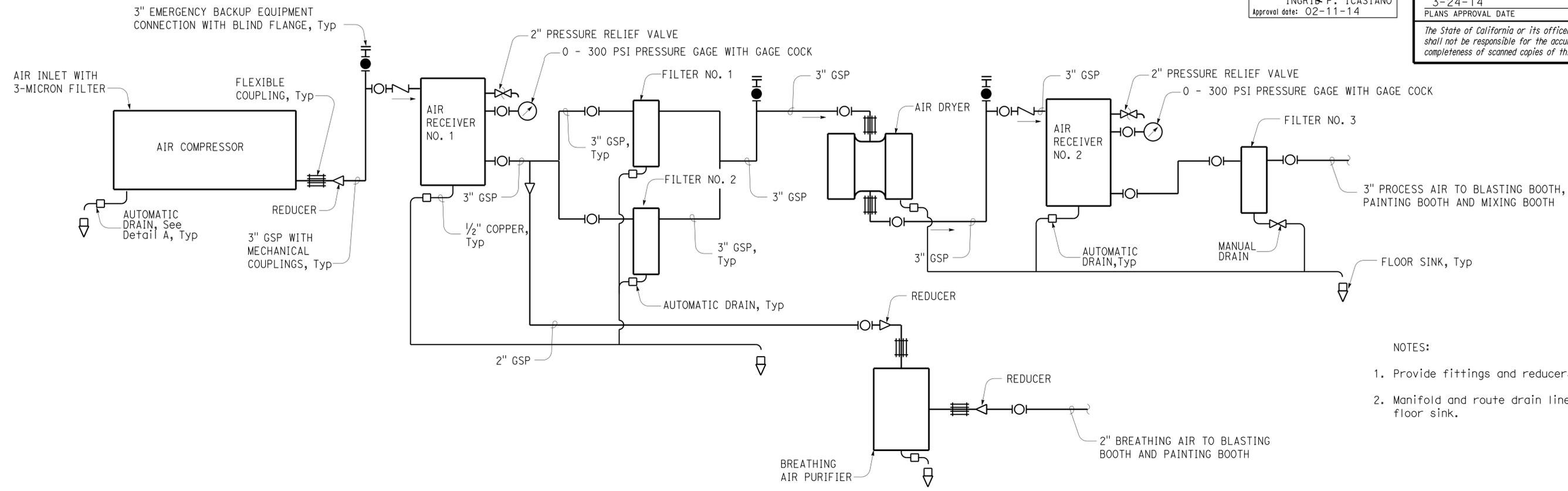
TAEWW Imperial - CCSC Rev. 01/13

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30-APR-2014 10:27

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 INGRID P. CASIANO  
 Approval date: 02-11-14

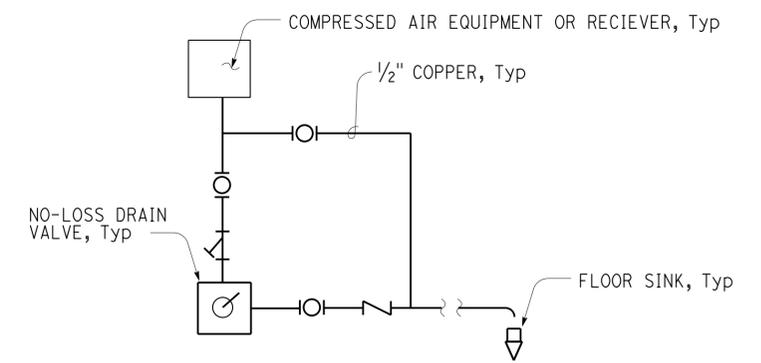
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		267	371
<i>Solomon C. Wong</i> REGISTERED MECHANICAL ENGINEER			2-21-14 DATE	REGISTERED PROFESSIONAL ENGINEER SOLOMON WONG No. M 27626 Exp. 6-30-15 MECH STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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- NOTES:
1. Provide fittings and reducers as required.
  2. Manifold and route drain lines, as shown, to the floor sink.

**1 COMPRESSED AIR PIPING AND EQUIPMENT**  
 NO SCALE

EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	INPUT	OUTPUT
AIR COMPRESSOR	AIR COOLED, OIL FREE, DRY ROTARY SCREW, VARIABLE SPEED DRIVE AIR COMPRESSOR PACKAGE	200 HP, 460 V, 3 $\phi$	200 TO 600 CFM AT 125 PSI
AIR RECEIVER No.1	600 GALLON ASME VERTICAL TANK, SAFETY VALVES, NO LOSS DRAIN, GAGES	155 PSI MAXIMUM PRESSURE, 110 V, 1 $\phi$	125 PSI
FILTER No. 1	COALESCING FILTER 3 INCH FLANGED CONNECTIONS WITH NO LOSS DRAIN	700 CFM, 110 V, 1 $\phi$	FILTER TO 0.01-MICRON
FILTER No. 2	COALESCING FILTER 3 INCH FLANGED CONNECTIONS WITH NO LOSS DRAIN	700 CFM, 110 V, 1 $\phi$	FILTER TO 0.01-MICRON
FILTER No. 3	COALESCING FILTER 3 INCH FLANGED CONNECTIONS WITH NO LOSS DRAIN	700 CFM, 110 V, 1 $\phi$	FILTER TO 1-MICRON
DRYER	AIR COOLED REFRIGERATED AIR DRYER, WITH NO LOSS DRAIN	7.8 kw, 460 V, 3 $\phi$ 110 V, 1 $\phi$	1000 CFM DRY AIR Min TO 39°F PDP
BREATHING AIR PURIFIER	BREATHING AIR PACKAGE WITH CO/CO2 SENSOR, DEW POINT MONITOR & NO LOSS DRAIN	42 VA, 110 V, 1 $\phi$	80 CFM Min AT 100 PSI
AIR RECEIVER No.2	1000 GALLON ASME VERTICAL TANK, SAFETY VALVES, NO LOSS DRAIN, GAGES	155 PSI MAXIMUM PRESSURE, 110 V, 1 $\phi$	125 PSI



**A AUTOMATIC DRAIN DETAIL**  
 NO SCALE

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 INGRID P. CASIANO  
 Approval date: 02-11-14

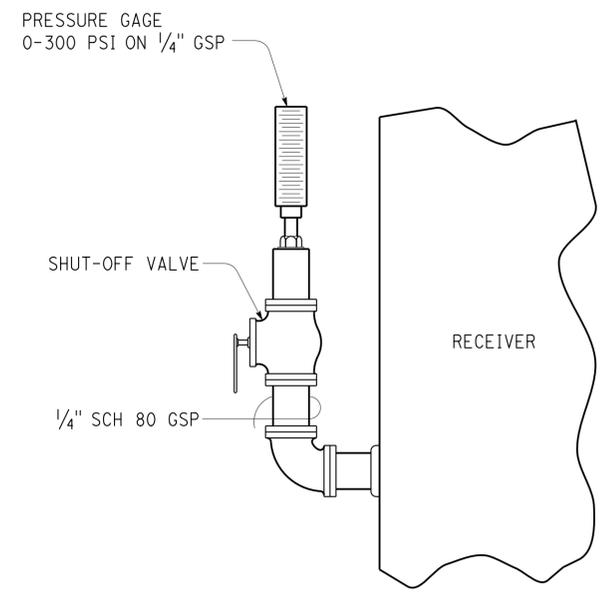
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		268	371

*Solomon C. Wong* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
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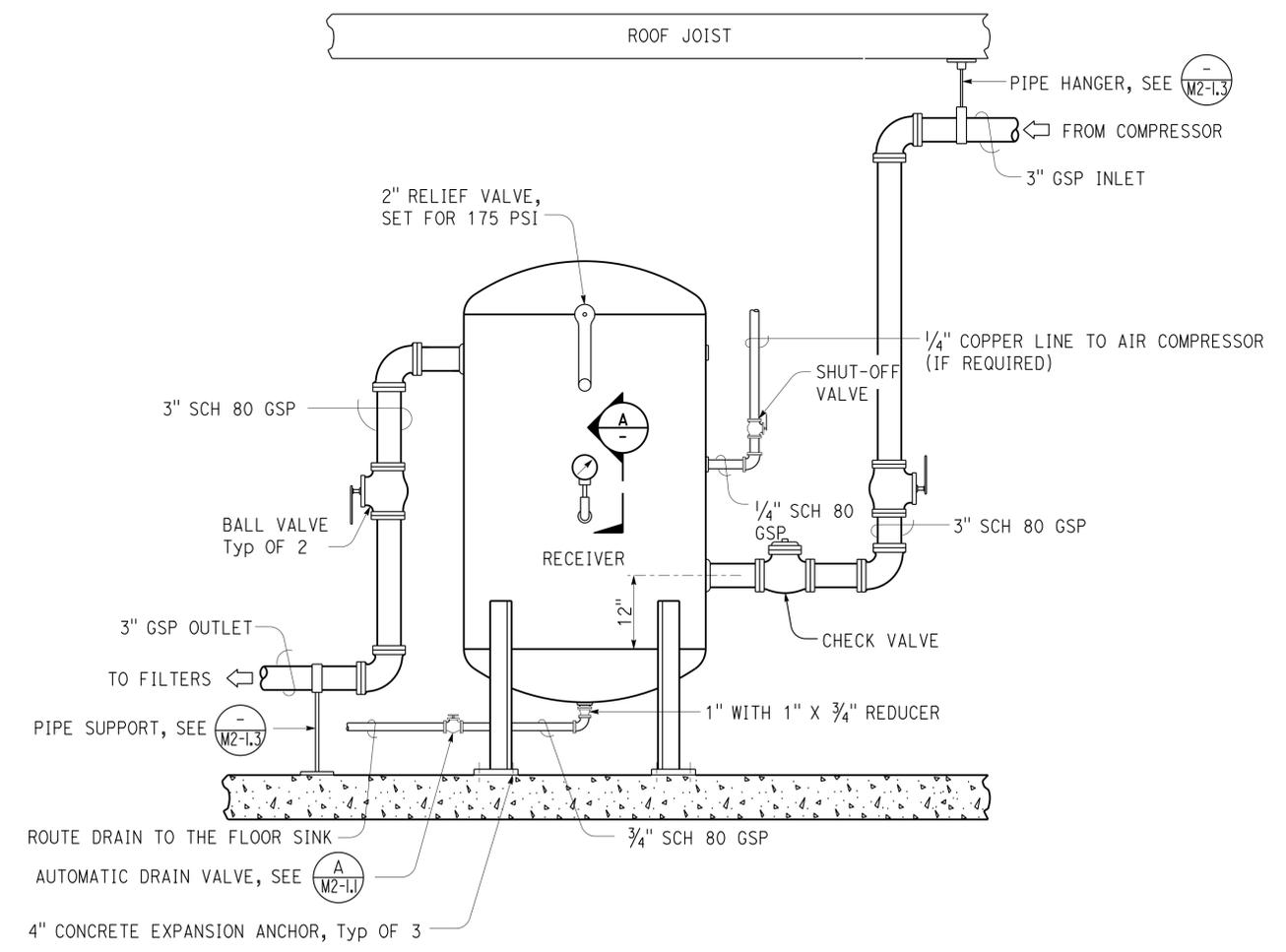
REGISTERED PROFESSIONAL ENGINEER  
 SOLOMON WONG  
 No. M 27626  
 Exp. 6-30-15  
 MECH  
 STATE OF CALIFORNIA



**A SECTION**

**NOTES:**

1. Location of tank connections to match equipment furnished.
2. Provide all fittings and couplings as required.
3. Outlet pipe height and support type to match filter installation.
4. All piping for pressure tank to first valve to be SCH 80 GSP.



**ELEVATION**

**3 RECEIVER**

NO SCALE

DESIGN BY Solomon Wong CHECKED Seve Gutierrez	DETAILS BY Angela Chen CHECKED Seve Gutierrez	QUANTITIES BY Solomon Wong CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET M2-1.2
					POST MILE X	BUILDING 1	COMPRESSED AIR DETAILS	
					DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

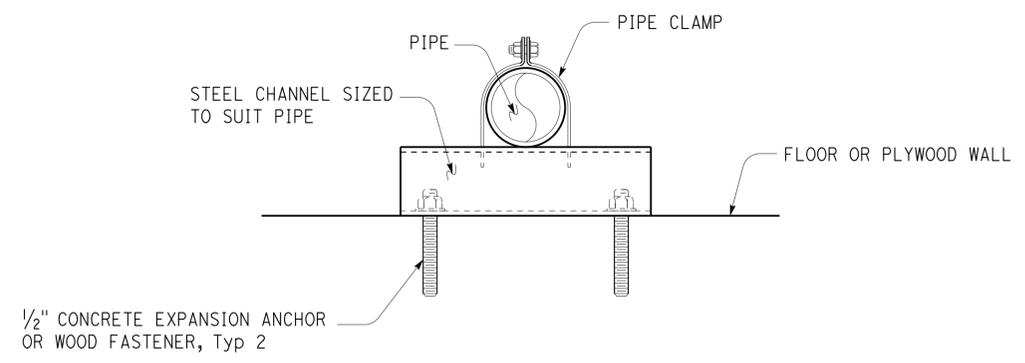
REVISION DATES: 04-16-13, 11-29-13, 2-21-14

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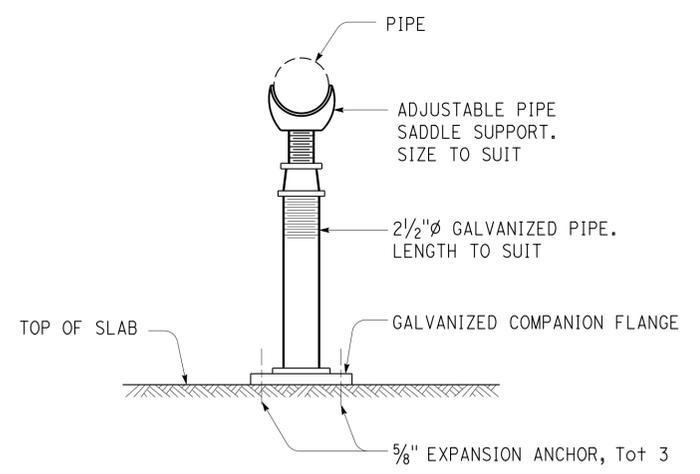
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

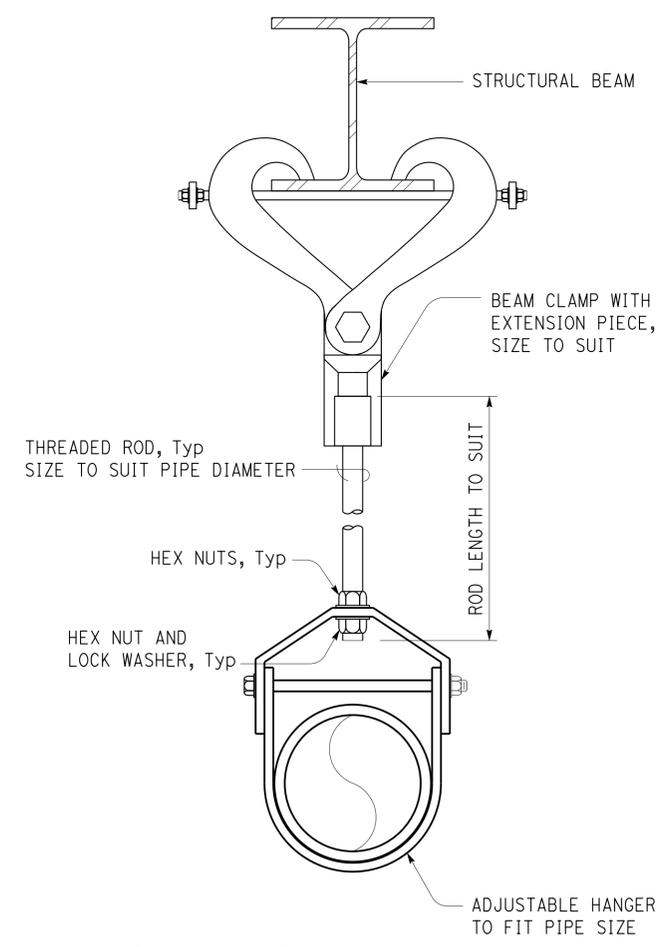
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		269	371
<i>Solomon C. Wong</i> REGISTERED MECHANICAL ENGINEER			2-21-14 DATE	REGISTERED PROFESSIONAL ENGINEER SOLOMON WONG No. M 27626 6-30-15 MECH STATE OF CALIFORNIA	
3-24-14 PLANS APPROVAL DATE					
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**3 PIPE SUPPORT ASSEMBLY**

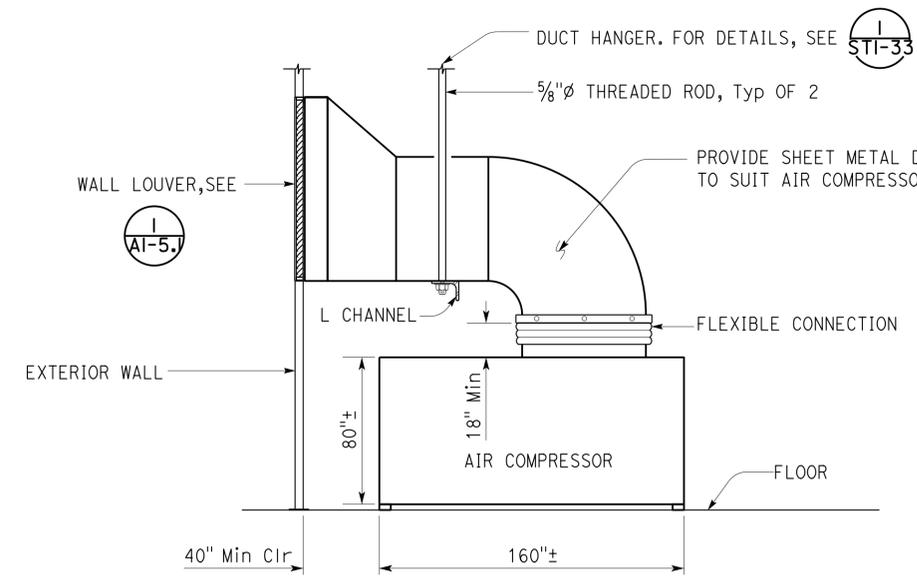


**4 PIPE SUPPORT ASSEMBLY**



NOTE:  
 Unit to be assembled from pre-manufactured parts sized for the pipe to be supported.

**5 PIPE HANGER ASSEMBLY**



NOTE:  
 Ductwork shall be fabricated to be detachable for maintenance access in accordance with the manufacturer's recommendations.

**B SECTION**

NO SCALE

DESIGN BY Solomon Wong	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET M2-1.3
				POST MILE X	BUILDING 1	PIPE SUPPORT DETAILS	
DETAILS BY Angela Chen	CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Solomon Wong	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		SHEET OF	

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ignacio P. Casiano*  
 INGRACIO P. CASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		270	371

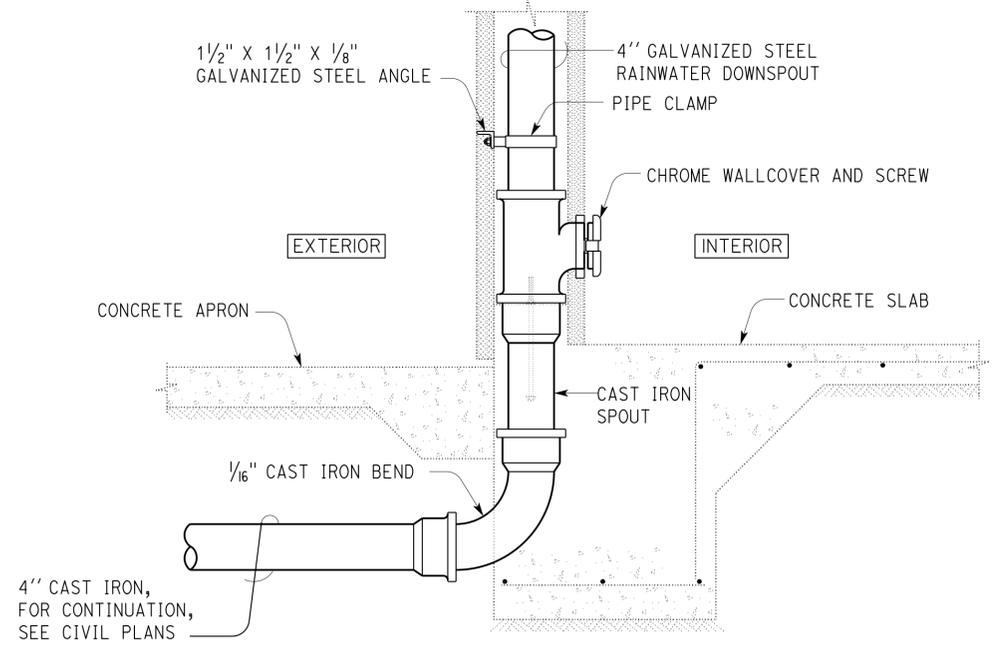
*Solomon C. Wong* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

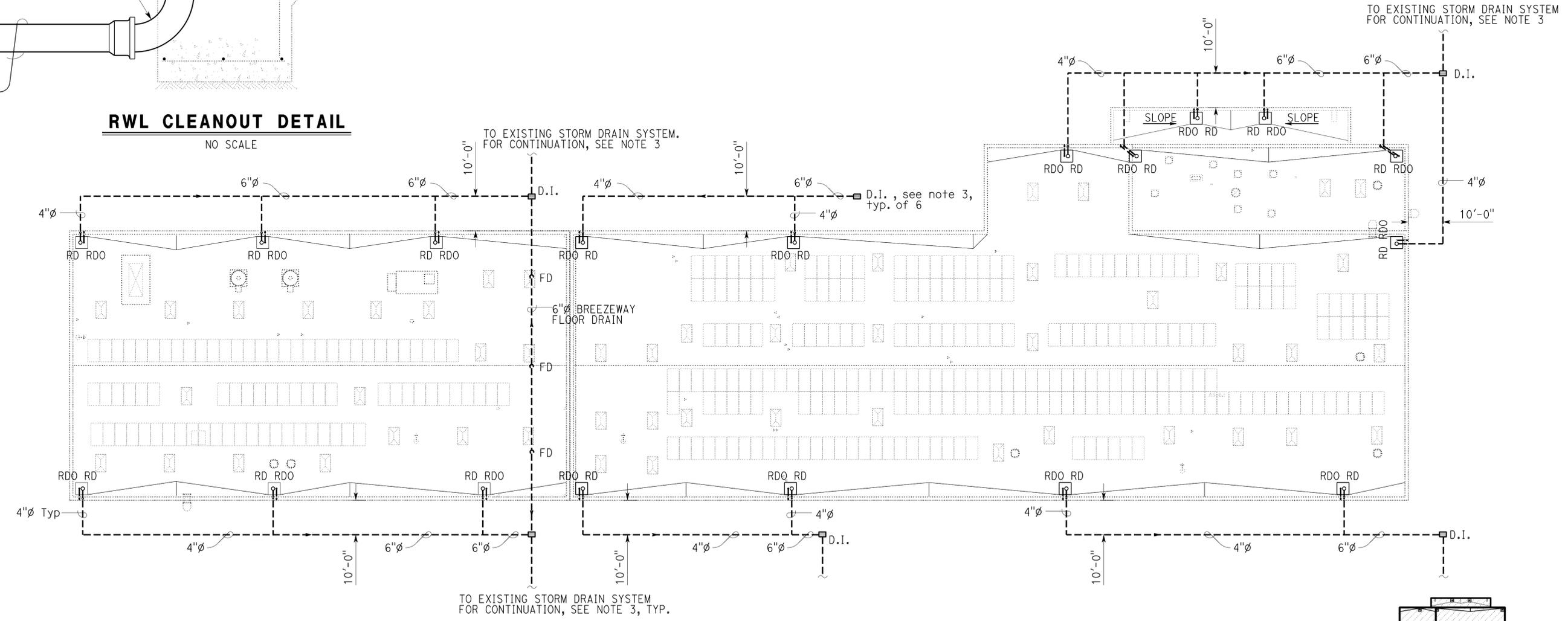
*Solomon Wong*  
 No. M 27626  
 Exp. 6-30-15  
 MECH  
 STATE OF CALIFORNIA

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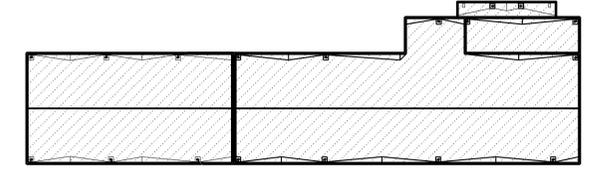
- NOTES:
1. For the locations of overflow drains, see Architecture sheets A1-5.2, 5.3, & 5.4.
  2. For roof drains locations, see Architecture sheet A1-4.0
  3. All six roof drainage inlet boxes (D.I.) are existing and connected to the storm drain system. For reference, see Drainage Plan sheet D-2R1 of SF0BB Maintenance Complex, Contract No. 04-014084.



**RWL CLEANOUT DETAIL**  
 NO SCALE



**ROOF DRAIN PLAN**  
 1/16" = 1'-0"



**KEY PLAN**

DESIGN BY Solomon Wong CHECKED Seve Gutierrez	DETAILS BY Angela Chen CHECKED Seve Gutierrez	QUANTITIES BY Solomon Wong CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET M2-2
					POST MILE X	BUILDING 1	ROOF DRAIN PLAN	
					UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13   11-29-13   2-21-14	

TAEMWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331 DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)  
 04-16-13 | 11-29-13 | 2-21-14

SHEET OF

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		271	371

*Christopher M. Faria* 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**Chris Faria**  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA

**PLUMBING**

— — — — —	COLD WATER
— A — — —	COMPRESSED AIR
— F — — —	FIRE SERVICE WATER LINE
— G — — —	GAS
— D — — —	EQUIPMENT DRAIN
— RD — — —	ROOF DRAIN
— OD — — —	OVERFLOW DRAIN
— RWL — — —	RAIN WATER LEADER
— — — — —	HOT WATER
— R — — —	RELIEF VALVE DISCHARGE PIPE
— S — — —	SEWER LINE
—————	SANITARY SEWER (ABOVE GRADE)
—————	SEWER LINE
— — — — —	SANITARY SEWER VENT
— RW — — —	RECYCLED WATER
— HM — — —	HAZARDOUS MATERIAL STORAGE ROOM DRAIN

**PIPE FITTINGS AND VALVES**

	CAP, THREADED
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	REDUCER, CONCENTRIC
	PRESSURE GAUGE (WITH GAGE COCK AND SNUBBER)
	STRAINER
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GAS
	VALVE, GATE
	VALVE, GLOBE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	VALVE, PRESSURE/TEMPERATURE RELIEF
	WATER HAMMER ARRESTOR
	HB HYDRANT BOX
	HF HOSE FAUCET

**PLUMBING ABBREVIATIONS**

ABS	ACRYLONITRILE BUTADIENE STYRENE	H	HEIGHT	SDS	SANITARY DUMP STATION
AC	ASPHALT CONCRETE	HB	HYDRANT BOX	SS	SANITARY SEWER
A/C	AIR CONDITIONER	H/C	HOT WATER, HIGH PRESSURE CLEANER	Sch	SCHEDULE
AD	AIR DROP	HF	HOSE FAUCET	S/S	SERVICE SINK
AP	ALTERNATIVE PIPE	HM	HAZARDOUS MATERIALS	SHR	SHOWER
ATF	AUTOMATIC TRANSMISSION FLUID	HW	HOT WATER	Std	STATION
		HWH	HOT WATER HEATER	Std	STANDARD
BFP	BACKFLOW PREVENTER	HZ	HERTZ	TCV	TEMPERATURE CONTROL VALVE
Bldg	BUILDING	ID	INSIDE DIAMETER	TP	TRAP PRIMER
BV	BALANCING VALVE	IE	INVERT ELEVATION	ToT	TOTAL
		In	INCH	TS	TIME SWITCH
C	CONDUIT	IPS	INTERNATIONAL PIPE STANDARD	Typ	TYPICAL
Cap	CAPACITY	IWH	INSTANT WATER HEATER		
CI	CAST-IRON	KS	KITCHEN SINK	UR	URINAL
CO	CLEANOUT	Kw	KILOWATT	V	VENT
COTF	CLEANOUT TO FLOOR	LAV	LAVATORY	VAC	VOLTAGE, ALTERNATING CURRENT
COTG	CLEANOUT TO GRADE	LPG	LIQUIFIED PETROLEUM GAS	VR	VENT RISER
COTW	CLEANOUT TO WALL	Max	MAXIMUM	VTR	VENT THRU ROOF
CV	CHECK VALVE	Man	MANHOLE		
CW	COLD WATER	Min	MINIMUM	W	WIDTH
		MS	MOP SINK	W/	WITH
D	DEPTH	N	NEW	W/O	WITHOUT
Dia	DIAMETER	NIC	NOT IN CONTRACT	WC	WATER CLOSET
DWV	DRAIN / WASTE / VENT	No.	NUMBER	WCL	WASTE COOLANT
DF	DRINKING FOUNTAIN	NPT	NATIONAL PIPE THREAD	W.C.	WATER COLUMN
		NST	NATIONAL STANDARD THREAD	WD	WATER DROP
(E)	EXISTING	NPS	NOMINAL PIPE SIZE	W.H.	WALL HYDRANT
EEW	EMERGENCY EYEWASH AND SHOWER	OC	ON CENTER	WHA	WATER HAMMER ARRESTOR
EL	ELEVATION	OD	OUTSIDE DIAMETER	WLS	WATER LEVEL SWITCH
Elect.	ELECTRICAL	OG	ORIGINAL GROUND	WO	WASTE OIL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	Ph	PHASE	WP	WEATHERPROOF
EWC	ELECTRIC WATER COOLER	PIV	POST INDICATOR VALVE	WS	WASH SINK
EWH	ELECTRIC WATER HEATER	POC	POINT OF CONNECTION	WSP	WELDED STEEL PIPE
		PVC	POLYVINYL CHLORIDE		
°F	FAHRENHEIT	PCC	PORTLAND CEMENT CONCRETE	XFMR	TRANSFORMER
FC	FLEXIBLE CONNECTION	PSI	POUNDS PER SQUARE INCH		
FD	FLOOR DRAIN	PRV	PRESSURE REDUCING VALVE		
FDC	FIRE DEPARTMENT CONNECTION	PV	PHOTO VOLTAIC		
FE	FIRE EXTINGUISHER	R	RADIUS		
FG	FINISH GRADE	RCP	REINFORCED CONCRETE PIPE		
FL	FLOW LINE	RD	ROOF DRAIN		
FH	FIRE HYDRANT	RDO	ROOF DRAIN OVERFLOW		
FS	FLOOR SINK	Req	REQUIRED		
FTR	FLUE THROUGH ROOF	RV	RELIEF VALVE		
		RW	RECYCLED WATER		
Ga	GAUGE	RWL	RAIN WATER LEADER		
Gal	GALLON				
Galv	GALVANIZED				
GH	GROUND HYDRANT				
GLV	GLOBE VALVE				
GPM	GALLONS PER MINUTE				
GS	GANG SINK				
GSP	GALVANIZED STEEL PIPE				
GV	GATE VALVE				
GWH	GAS WATER HEATER				
Gyp	GYPSON				

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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Reviewed by: *Ingrid P. Icasiano*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

**MISCELLANEOUS**

4	ANGLE
⊕	CENTERLINE
∅	DIAMETER
	SECTION / ELEVATION LETTER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	FIRE RATED WALL. FOR FIRE RATED WALLS AND PENETRATION DETAILS SEE ARCHITECTURAL PLAN SHEETS A3-8.8a THROUGH A3-8.8d.

THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2010 ED. OF THE NFPA 13. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATION (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.

AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE CALIFORNIA STATE FIRE MARSHAL.

DESIGN	BY	Chris Faria	CHECKED	Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No.	<b>SFOBB WAREHOUSE</b>		SHEET <b>MP0-0</b>
	DETAILS	BY	Chris Faria	CHECKED			Seve Gutierrez	33M5785	BUILDING 1	
QUANTITIES	BY	Chris Faria	CHECKED	Seve Gutierrez			POST MILE	X		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES → 04-16-13 11-29-13 2-21-14  
 REVISION DATES (PRELIMINARY STAGE ONLY)

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### FIXTURE PIPING SCHEDULE

FIXTURE	WASTE		VENT	COLD WATER		HOT WATER		RECYCLED WATER	
	BRANCH	OUTLET		BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
EEW	-	-	-	1 1/4	1 1/4	-	-	-	-
EWC	2	1 1/2	1 1/2	3/4	1/2	-	-	-	-
FD	2	2	1 1/2	-	-	-	-	-	-
FS	2	2	1 1/2	-	-	-	-	-	-
HF	-	-	-	3/4	3/4	-	-	-	-
KS	2	2	1 1/2	3/4	1/2	3/4	1/2	-	-
LAV	2	1 1/2	1 1/2	3/4	1/2	3/4	1/2	-	-
MS	3	3	2	3/4	1/2	3/4	1/2	-	-
SHR	2	2	1 1/2	3/4	1/2	3/4	1/2	-	-
SS	3	3	2	3/4	1/2	3/4	1/2	-	-
WC	4	4	2	-	-	-	-	1 1/4	1

BRANCH PIPING LESS THAN 10' MAY BE SAME SIZE AS OUTLET PIPING INDICATED ABOVE

### WATER HEATER SCHEDULE

UNIT No.	TYPE	CAPACITY			TEMPERATURE RISE AND FLOW RATE	ELECTRICAL	WEIGHT (Lbs)	USE
		BTU/H		Kw				
		INPUT	OUTPUT					
HWH-1	ELECTRIC	-	-	7.5	51°F ΔT @ 1GPM	240V 1Φ	3	PAINT ROOM (100)
HWH-2	GAS	9,500 - 199,000	9,025 - 189,050	-	65°F ΔT @ 5.8GPM	120V	71	OFFICE AREA

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INGRID P. CASIANO  
Approval date: 02-11-14

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04	Ala	5785		272	371
Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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DESIGN BY Chris Faria CHECKED Seve Gutierrez DETAILS BY Chris Faria CHECKED Seve Gutierrez QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785 POST MILE X	<b>SFOBB WAREHOUSE</b> BUILDING 1 <b>EQUIPMENT SCHEDULES</b>	SHEET <b>MP0-1</b> OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-25-13 2-21-14	SHEET OF

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30-APR-2014 10:28

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 INGRNY P. ICASTANO  
 Approval date: 02-11-14

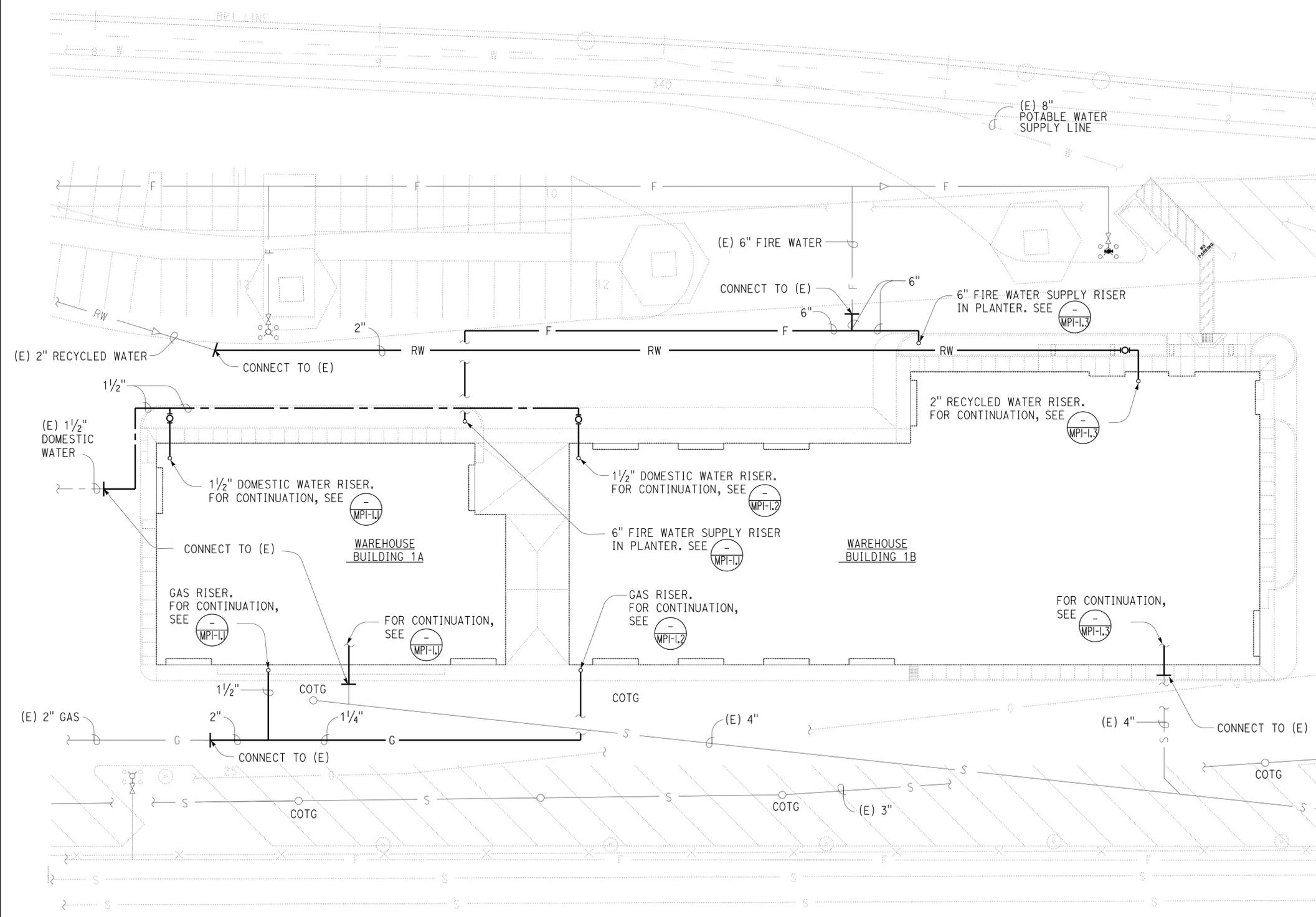
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Christopher M. Faria 2-21-14  
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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



- NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS, FIRE SPRINKLERS AND FIRE STANDPIPES
- 1) PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL.
  - 2) INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH. SCHEDULE ALL INSPECTIONS 72 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A RE-INSPECTION FEE. CALL LOCAL DEPUTY STATE FIRE MARSHAL FOR INSPECTION SCHEDULING.
  - 3) INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2010 NFPA 13 AND 2010 NFPA 24.
  - 4) PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2-1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST).
  - 5) FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES DIAMETER. THE LOWEST OPERATING NUT SHALL BE A MINIMUM OF 18" ABOVE GRADE AND THE HYDRANT FLANGE SHALL BE A MINIMUM OF 2" ABOVE GRADE.
  - 6) FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS.
  - 7) ALL PIPE SHALL BE APPROVED FOR USE IN FIRE SERVICE SYSTEMS (CLASS 150 MINIMUM). CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI.
  - 8) ALL FERROUS PIPE AND FITTINGS SHALL BE PROTECTED WITH A LOOSE 8-MIL POLYETHYLENE TUBE. THE ENDS OF TUBE AND ANY SPLICES MATE FOR "T"s OR OTHER PIPING COMPONENT SHALL BE SEALED WITH 2" TAPE, APPROVED FOR USE UNDERGROUND. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER ASSEMBLY AND PRIOR TO POLY-TUBE INSTALLATION.
  - 9) A 12" BED OF CLEAN FILL SAND SHALL BE PROVIDED BELOW AND ABOVE THE PIPE (TOTAL 24").
  - 10) ALL BOLTS USED FOR UNDERGROUND CONNECTIONS SHALL BE STAINLESS STEEL.
  - 11) A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE PIPE, SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM OF 36" COVER SHALL BE PROVIDED.
  - 12) THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION.
  - 13) THE TRENCH SHALL BE EXCAVATED FOR THRUST BLOCKS AND INSPECTED PRIOR TO THE POUR. ALL CORROSION PROTECTION SHALL BE IN PLACE.
  - 14) A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE WITNESSED BY A DEPUTY STATE FIRE MARSHAL. THE TRENCH SHALL BE BACK-FILLED BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE.
  - 15) THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF A 4" HOSE OR PIPE UNLESS APPROVED BY THE DEPUTY STATE FIRE MARSHAL. A DEPUTY STATE FIRE MARSHAL SHALL WITNESS THE FLUSH.
  - 16) PRIVATE HYDRANTS, SPRINKLER CONTROL VALVES, DETECTOR CHECK ASSEMBLIES, POST INDICATING VALVES AND FIRE DEPARTMENT CONNECTIONS SHALL BE PAINTED OSHA RED.
  - 17) ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE ELECTRICALLY SUPERVISED IF THEY SERVE 100 OR MORE SPRINKLER HEADS.

**PARTIAL SITE PLAN**  
 1" = 20'-0"

NOTE:  
 EXISTING SITE UTILITY PIPING IS SHOWN DIAGRAMATIC ONLY.  
 CONTRACTOR MUST VERIFY EXISTING SITE UTILITY PIPING LOCATIONS  
 PRIOR TO ANY NEW WORK.

DESIGN	BY	Chris Faria	CHECKED	Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	33M5785	SFOBB WAREHOUSE	BUILDING 1	PARTIAL SITE PLAN	SHEET MP1-0	
	DETAILS	BY	Chris Faria	CHECKED			Seve Gutierrez	POST MILE					X
	QUANTITIES	BY	Chris Faria	CHECKED			Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331					DISREGARD PRINTS BEARING EARLIER REVISION DATES

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

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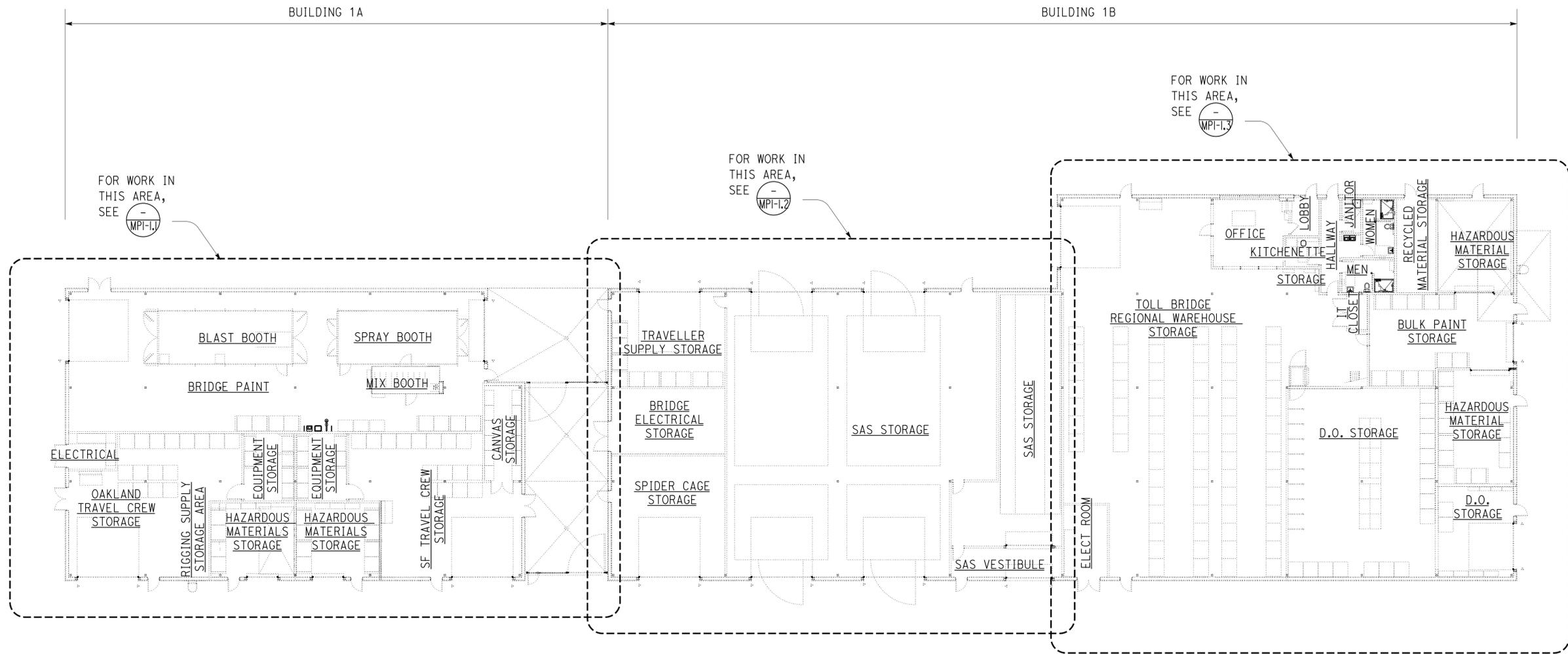
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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**FLOOR PLAN**

1/16" = 1'-0"



DESIGN BY Chris Faria CHECKED Seve Gutierrez	DETAILS BY Chris Faria CHECKED Seve Gutierrez	QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET
					POST MILE X	BUILDING 1	FLOOR PLAN	MP1-1.0
UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331					DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *David P. Davian*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

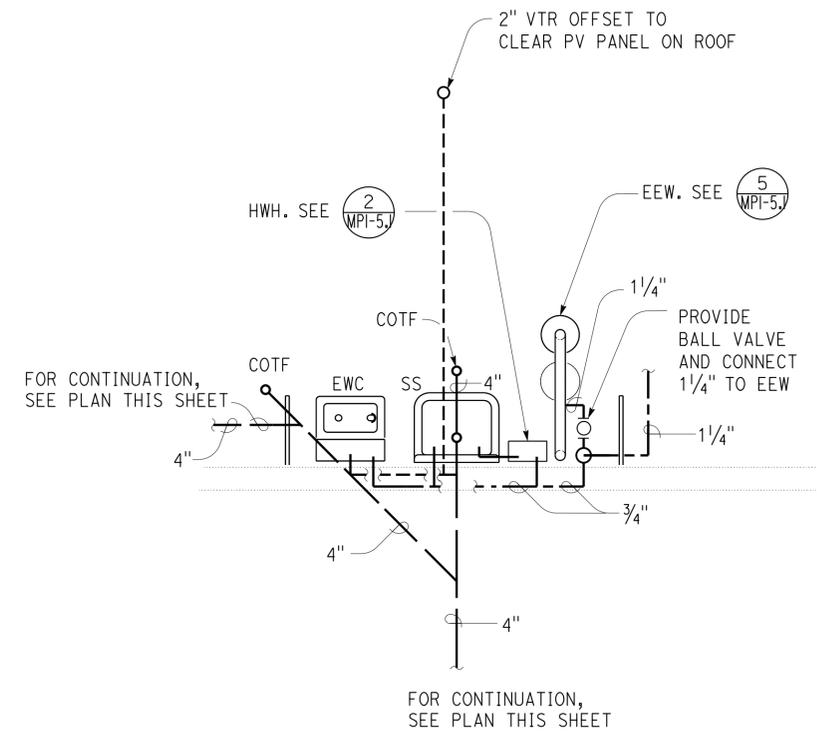
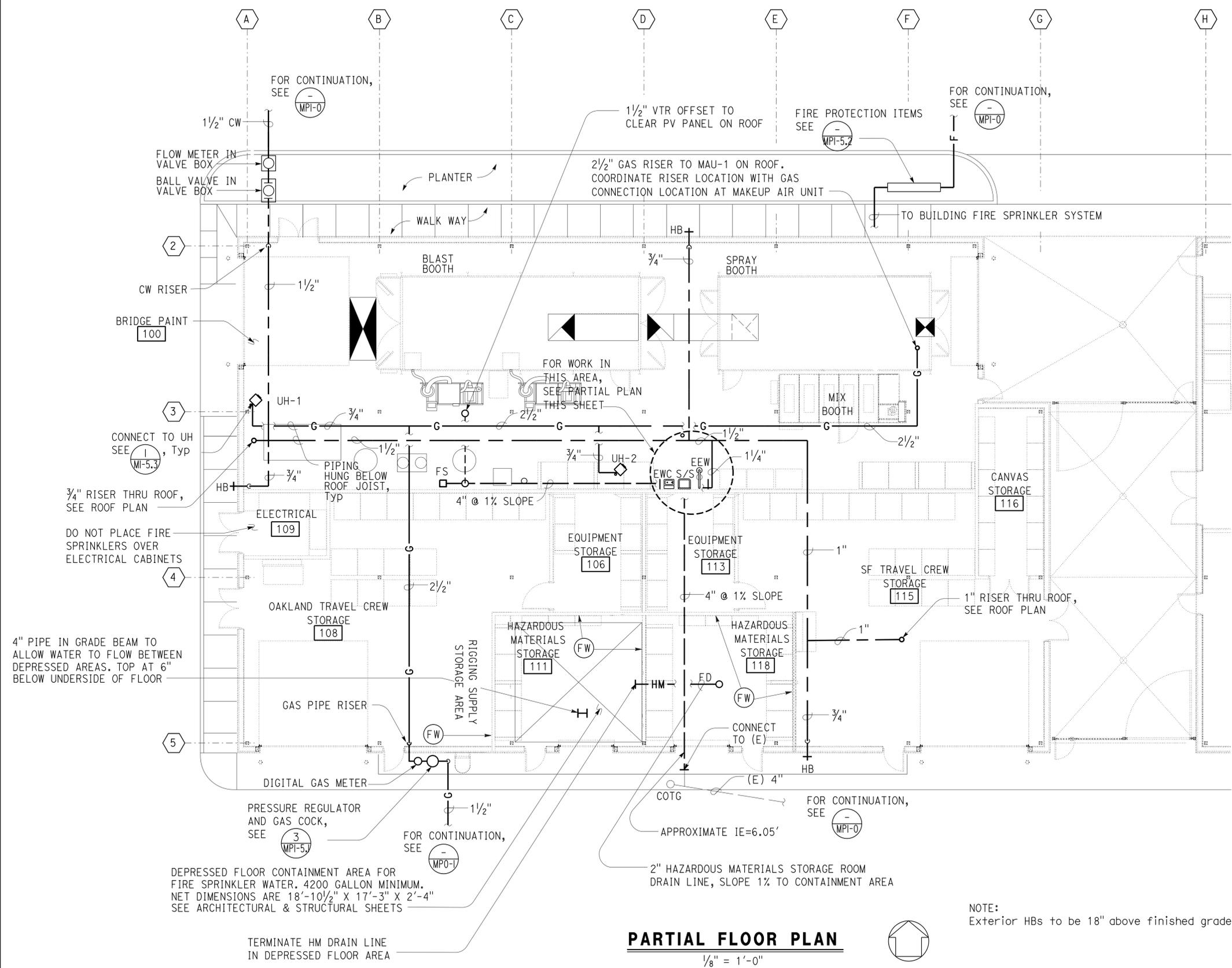
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04	Ala	5785		275	371

Christopher M. Faria 2-21-14  
 REGISTERED MECHANICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**PARTIAL FLOOR PLAN**  
 1/2" = 1'-0"

**PARTIAL FLOOR PLAN**  
 1/8" = 1'-0"

DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET MP1-1.1
				POST MILE X	BUILDING 1A	PARTIAL FLOOR PLAN - A	
DETAILS BY Chris Faria	CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		SHEET OF	

TAEWW Imperial - CCSC Rev. 01/13

30-APR-2014 10:28

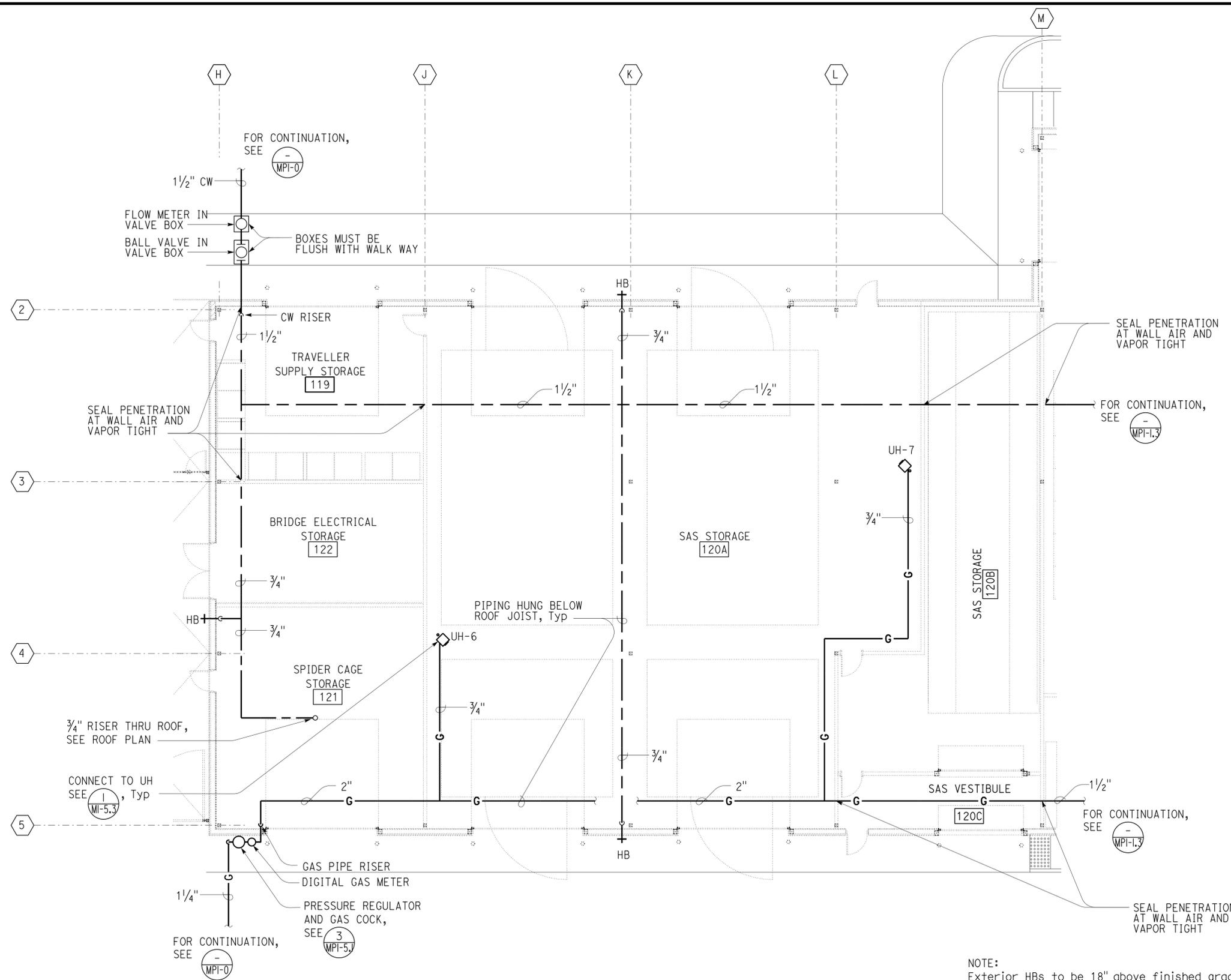
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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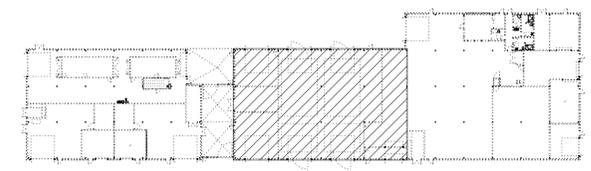
CALIFORNIA STATE FIRE MARSHAL <b>APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Casiano</i> INGRID P. CASIANO Approval date: 02-11-14		
Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE		
3-24-14 PLANS APPROVAL DATE		

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NOTE:  
Exterior HBs to be 18" above finished grade.

**PARTIAL FLOOR PLAN**  
1/8" = 1'-0"



DESIGN BY Chris Faria CHECKED Seve Gutierrez DETAILS BY Chris Faria CHECKED Seve Gutierrez QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No.	<b>SFOBB WAREHOUSE</b>		SHEET
			33M5785	BUILDING 1B <b>PARTIAL FLOOR PLAN - B</b>		<b>MP1-1.2</b>
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-25-13 2-21-14		SHEET OF

TAEWW Imperial - CCSC Rev. 01/13

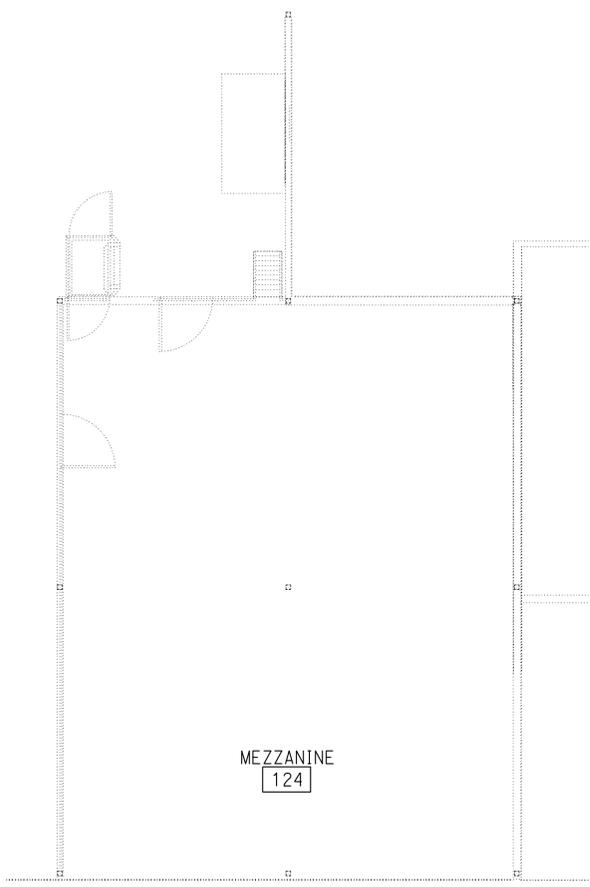
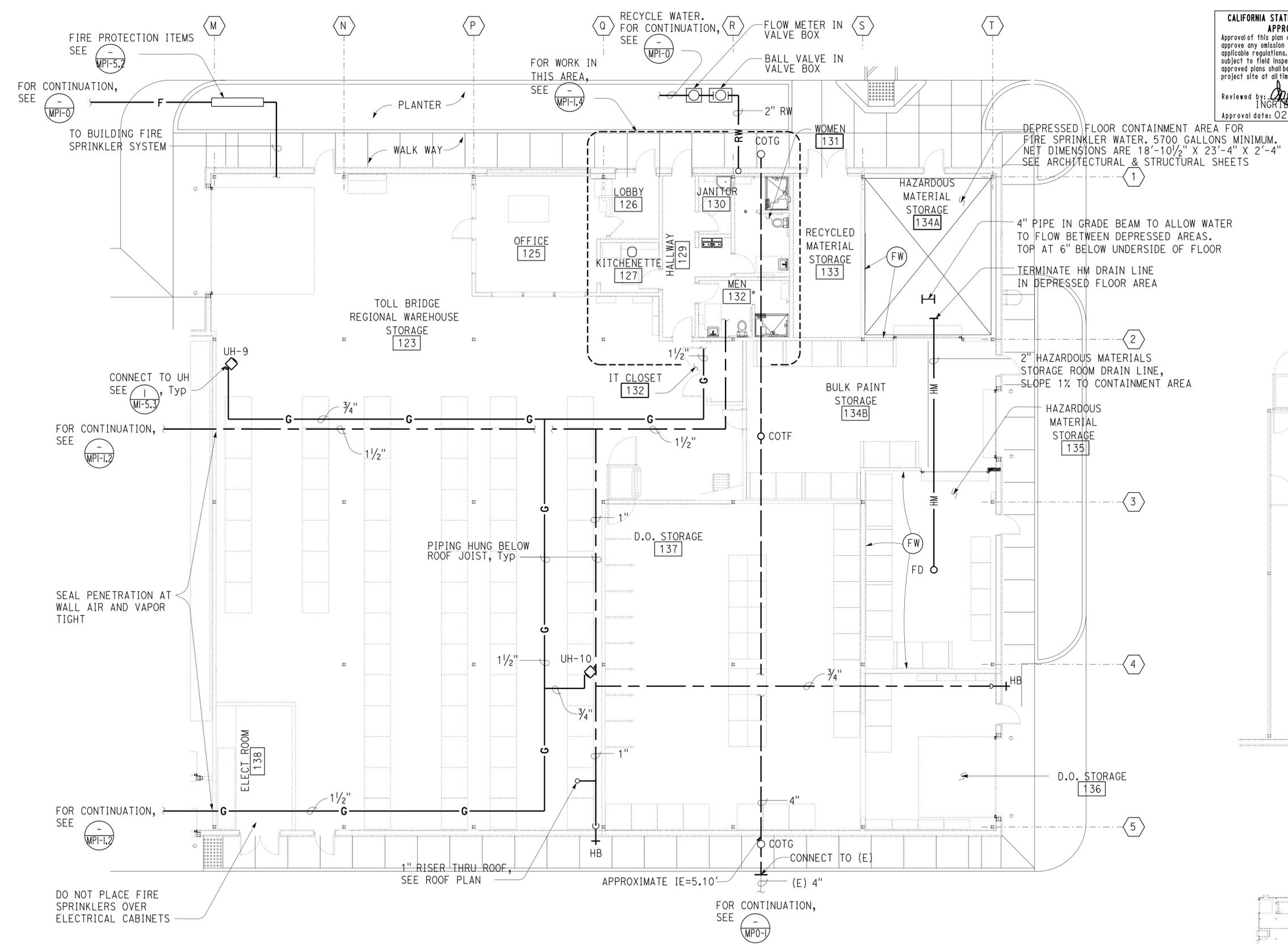
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 Chris Faria  
 No. M 30419  
 Exp. 12-31-15  
 MECH  
 STATE OF CALIFORNIA



**MEZZANINE PLAN**

1/8" = 1'-0"

**PARTIAL FLOOR PLAN**

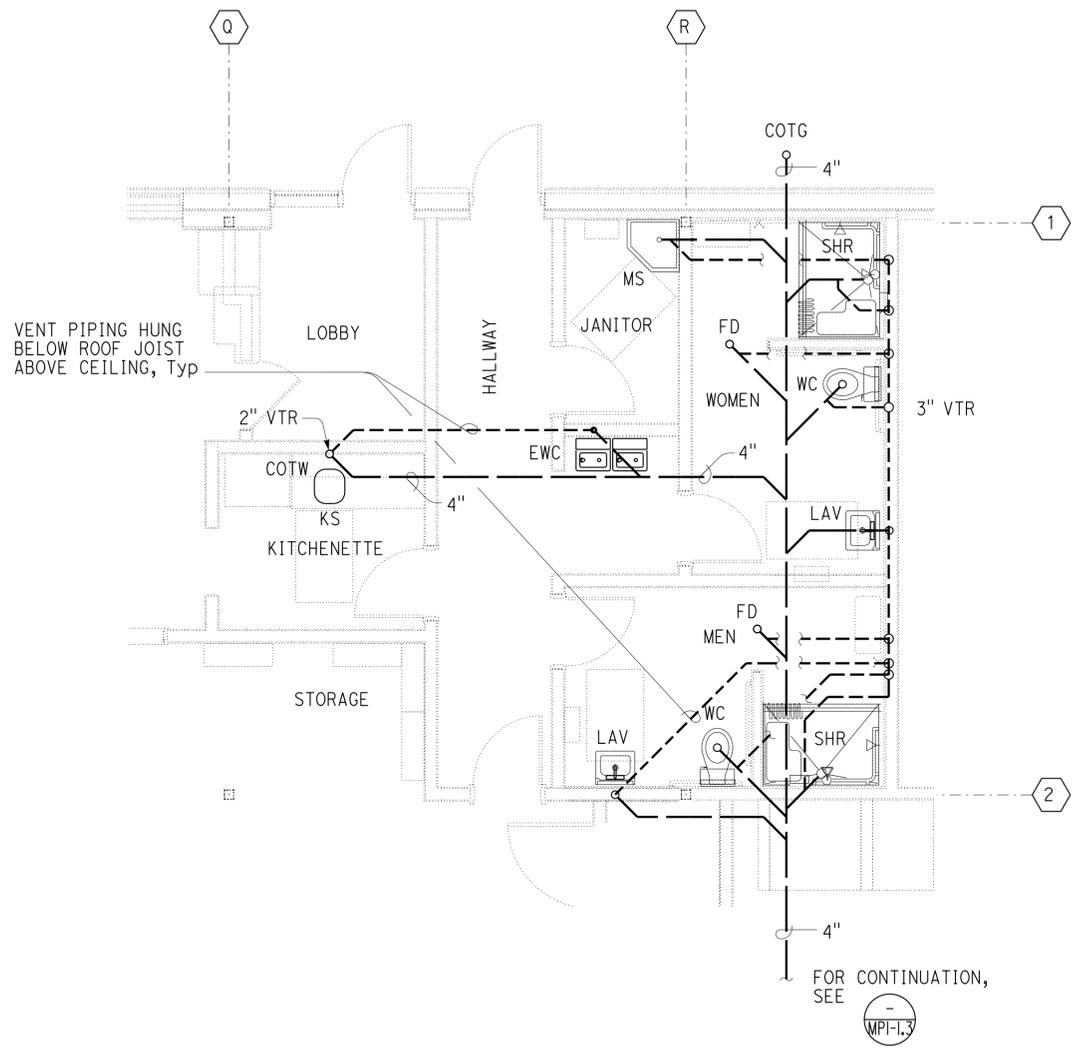
1/8" = 1'-0"

NOTE:  
Exterior HBs to be 18" above finished grade.

DESIGN BY Chris Faria CHECKED Seve Gutierrez DETAILS BY Chris Faria CHECKED Seve Gutierrez QUANTITIES BY Chris Faria CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE X	SFOBB WAREHOUSE BUILDING 1B	SHEET <b>MP1-1.3</b>
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-16-13 11-27-13 2-21-14	SHEET OF
	TAEWW Imperial - CCSC Rev. 01/13	C:\expdite\0413001331_sfobb_maint_warehouse\MP1_1_3.dgn	30-APR-2014 10:28		

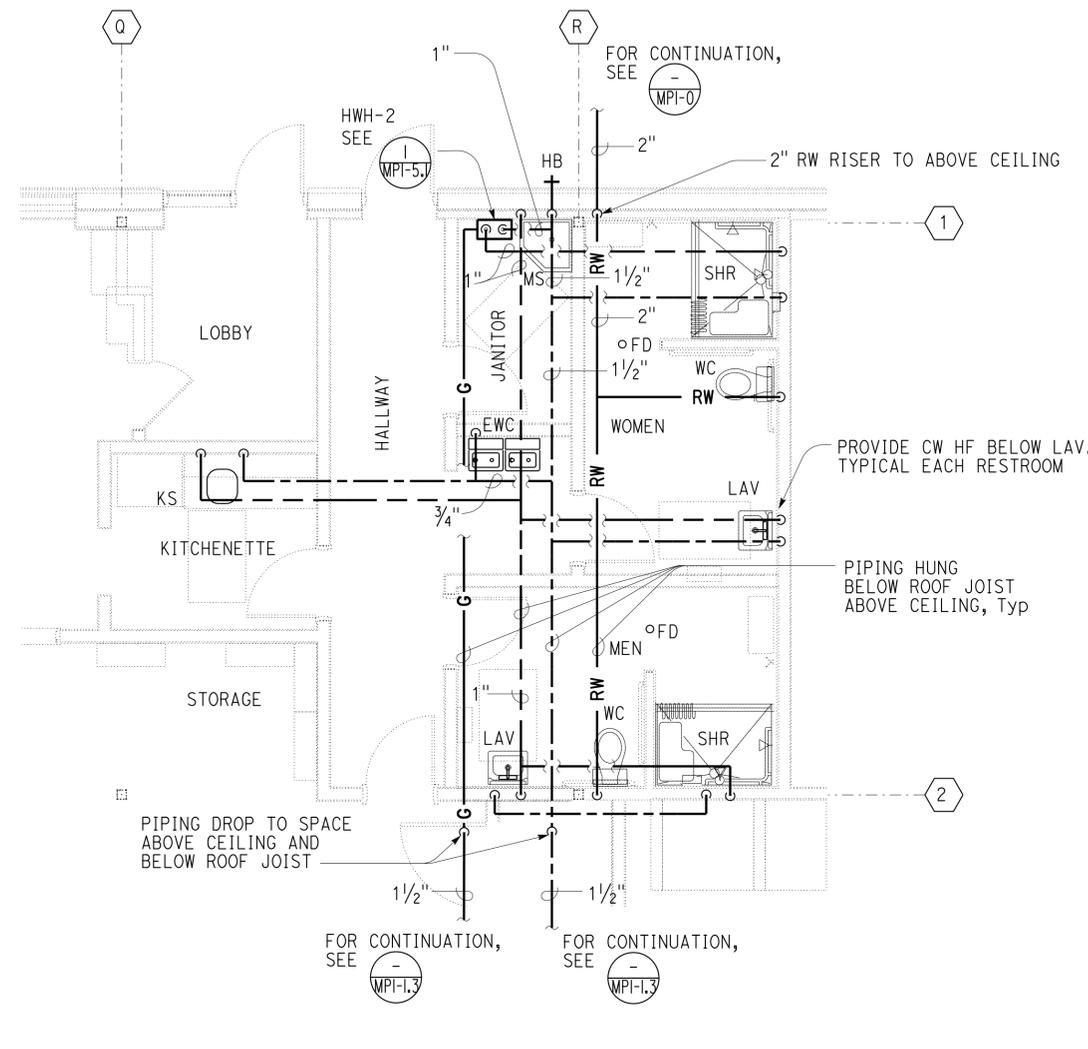
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		278	371
Christopher M. Faria 2-21-14 REGISTERED MECHANICAL ENGINEER DATE					
3-24-14 PLANS APPROVAL DATE					
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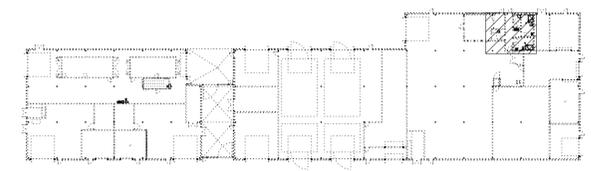
**WASTE & VENT  
PARTIAL FLOOR PLAN**

1/4" = 1'-0"



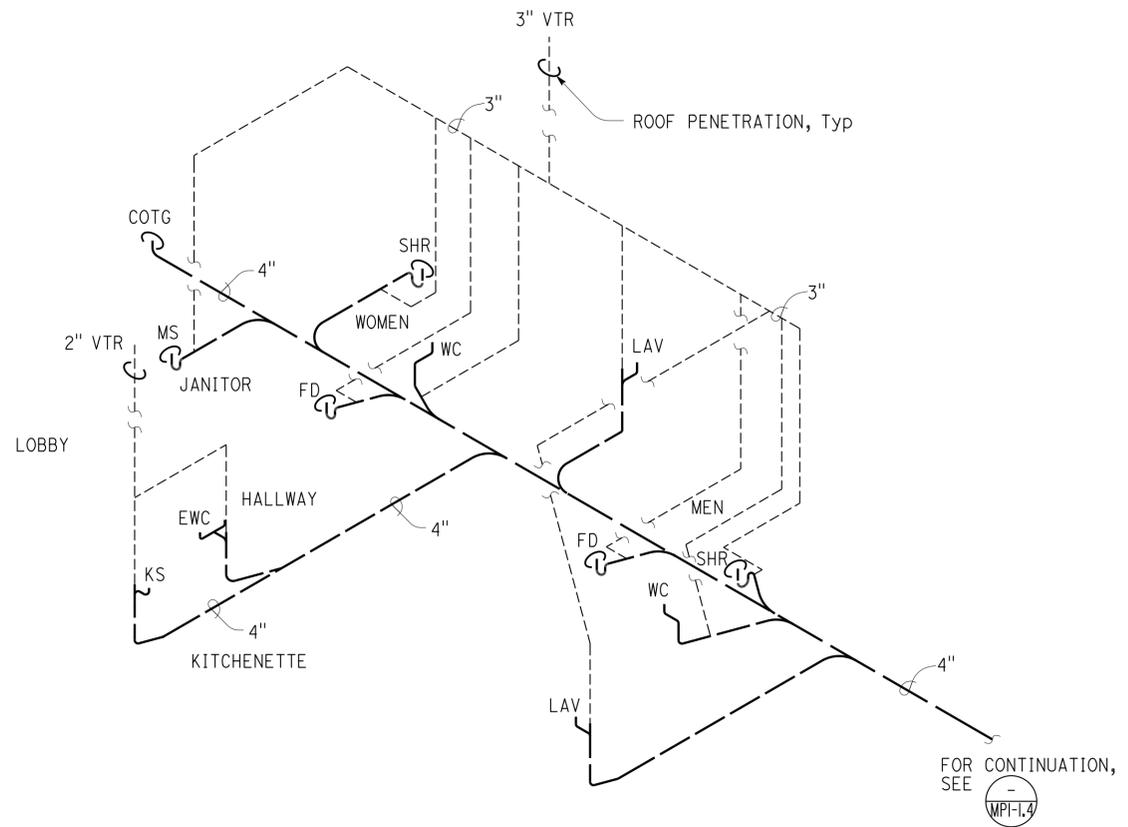
**DOMESTIC & RECYCLED WATER  
PARTIAL FLOOR PLAN**

1/4" = 1'-0"

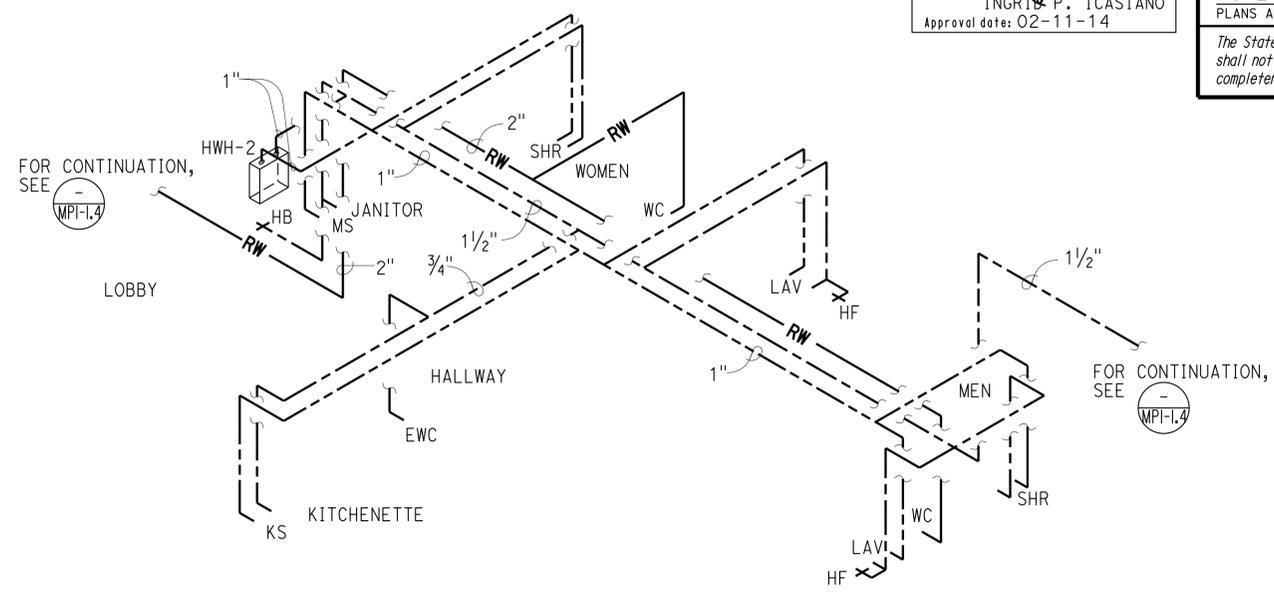


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					POST MILE X	BUILDING 1B	PLUMBING PLAN	<b>MP1-1.4</b>
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13							04-16-13 11-25-13 2-21-14	

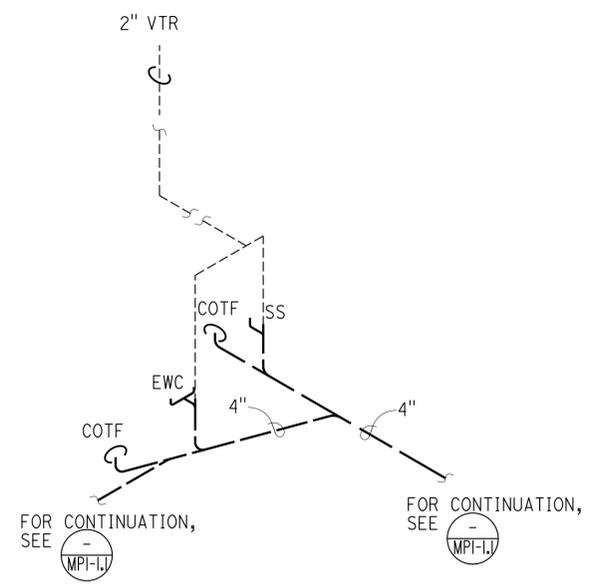
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		279	371
<p><i>Christopher M. Faria</i> 2-21-14  REGISTERED MECHANICAL ENGINEER DATE</p> <p>3-24-14  PLANS APPROVAL DATE</p> <p><i>Ingrid P. Casiano</i>  INGRID P. CASIANO  Approval date: 02-11-14</p>					
<p>REGISTERED PROFESSIONAL ENGINEER  Chris Faria  No. M 30419  Exp. 12-31-15  MECH  STATE OF CALIFORNIA</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</p>					



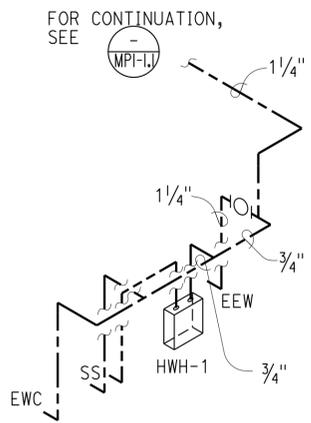
**PARTIAL SANITARY SEWER ISOMETRIC NO.1**  
NO SCALE



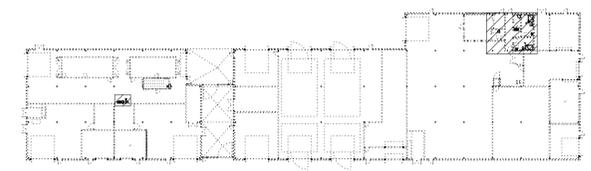
**PARTIAL DOMESTIC & RECYCLED WATER ISOMETRIC NO.1**  
NO SCALE



**PARTIAL SANITARY SEWER ISOMETRIC NO.2**  
NO SCALE



**PARTIAL DOMESTIC WATER ISOMETRIC NO.2**  
NO SCALE



DESIGN BY Chris Faria	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET MP1-1.5
				POST MILE X	BUILDING I	PLUMBING ISOMETRIC PLAN	OF
DETAILS BY Chris Faria	CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Chris Faria	CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		04-16-13 11-25-13 2-21-14	
TAEWW Imperial - CCSC Rev. 01/13				C:\expdite\0413001331_sfobb_maint_warehouse\MP1_1_5.dgn		30-APR-2014 10:28	

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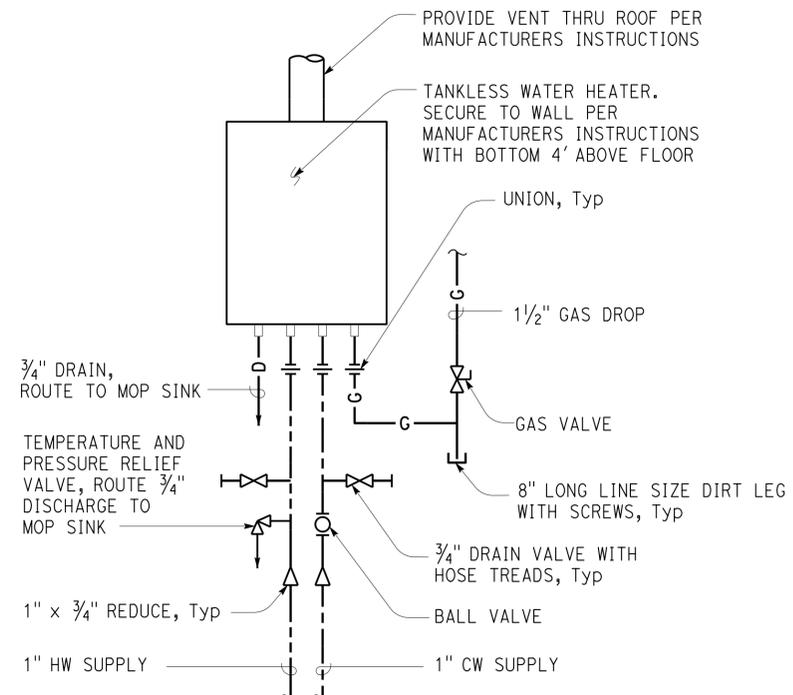
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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*Christopher M. Faria* 2-21-14  
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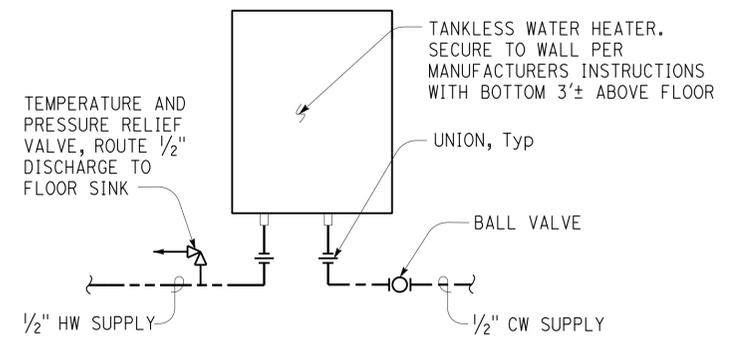
3-24-14  
 PLANS APPROVAL DATE

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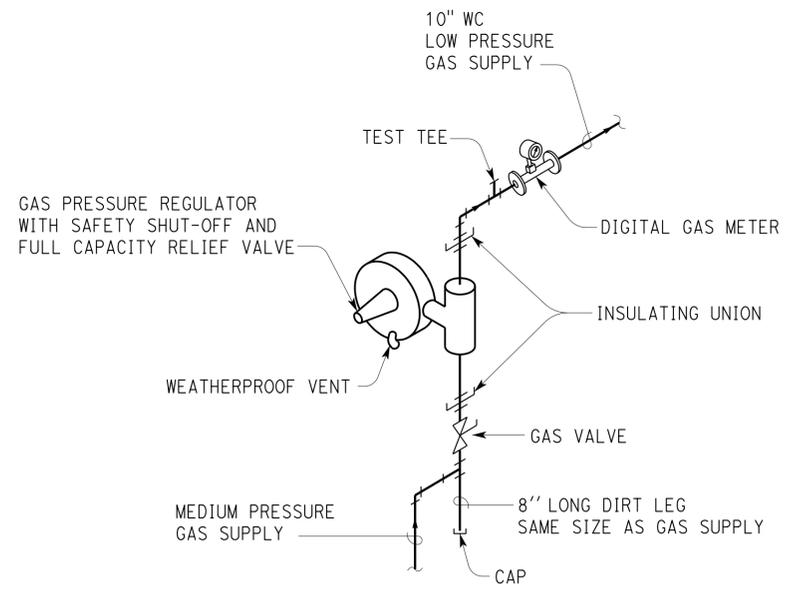
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 MECH  
 STATE OF CALIFORNIA



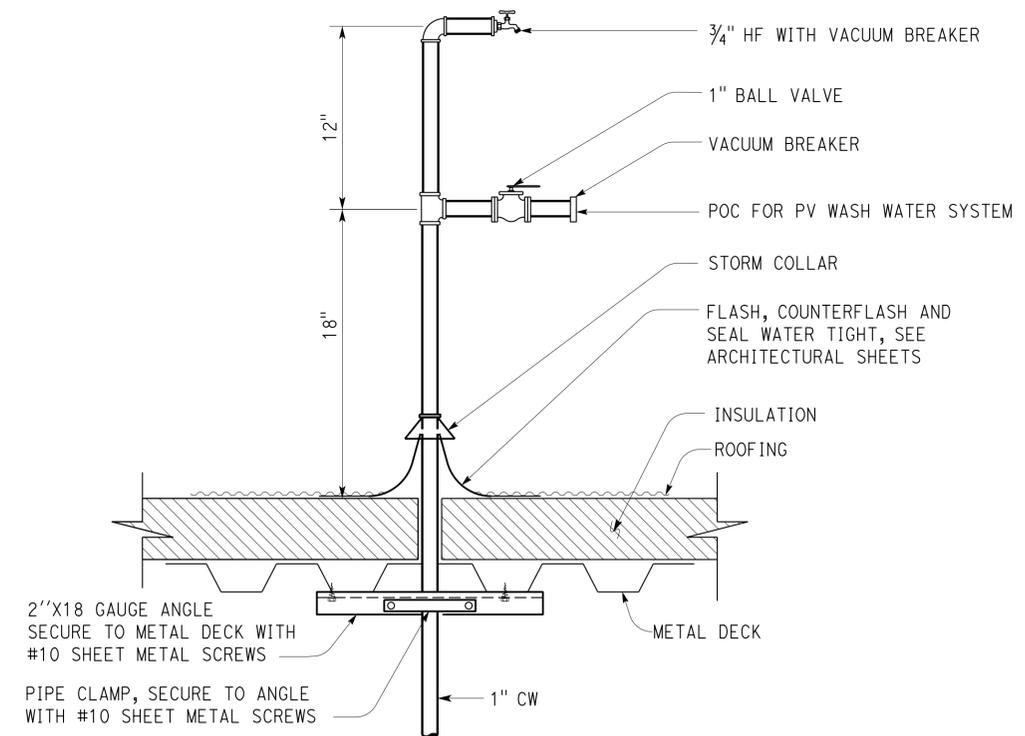
**1 GAS TANKLESS WATER HEATER**



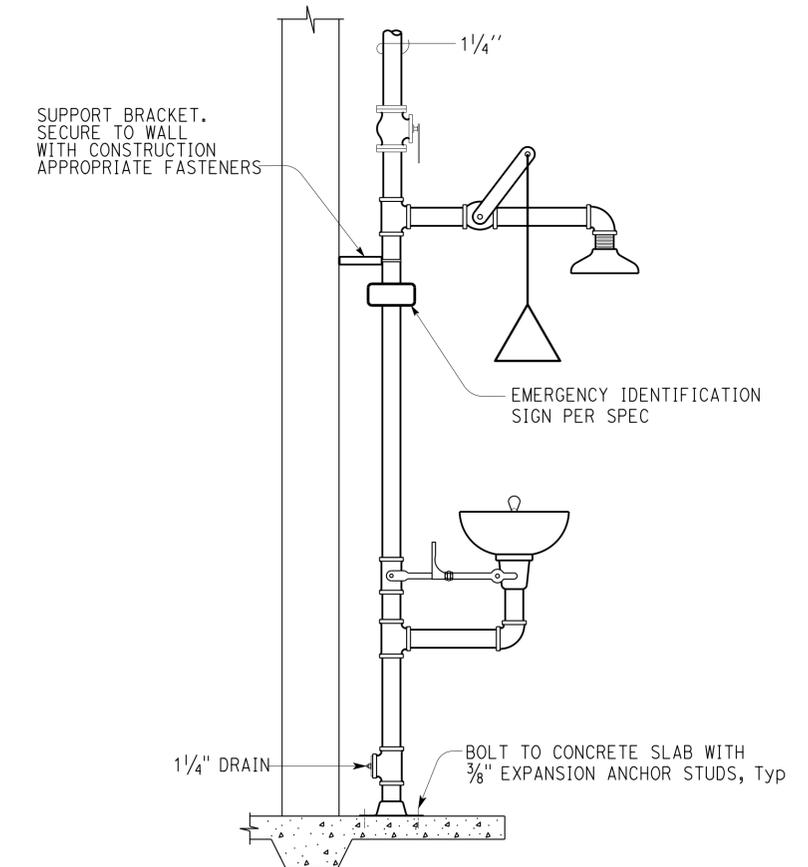
**2 ELECTRIC TANKLESS WATER HEATER**



**3 GAS PRESSURE REGULATOR**



**4 PV WASH WATER & HOSE FAUCET**



**5 INTERIOR EMERGENCY EYEWASH AND SHOWER**

NO SCALE

DESIGN BY	Chris Faria	CHECKED	Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	33M5785	<b>SFOBB WAREHOUSE</b> BUILDING 1 PLUMBING DETAILS - 1	SHEET	MP1-5.1	
DETAILS BY	Chris Faria	CHECKED	Seve Gutierrez			POST MILE	X		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
QUANTITIES BY	Chris Faria	CHECKED	Seve Gutierrez			UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		04-16-13 11-25-13 2-21-14		

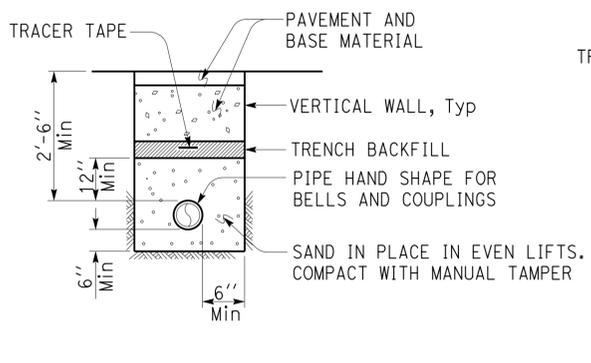
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

TAEMWW Imperial - CCSC Rev. 01/13

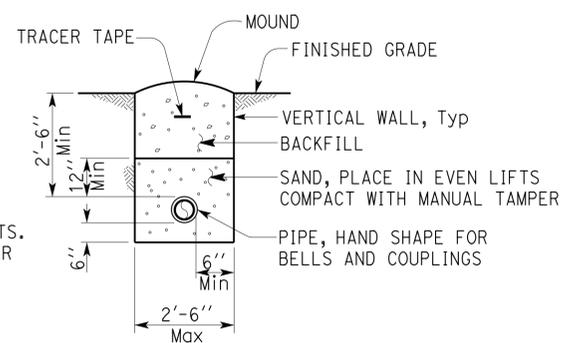
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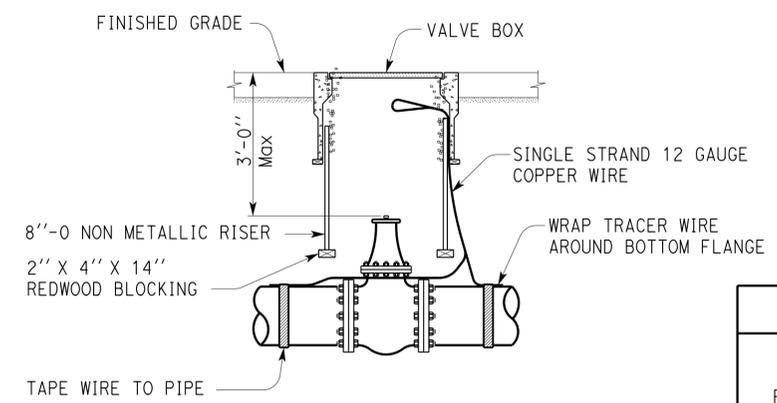
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		281	371
Christopher M. Faria			2-21-14		
REGISTERED MECHANICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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**1 PIPE UNDER PAVEMENT**

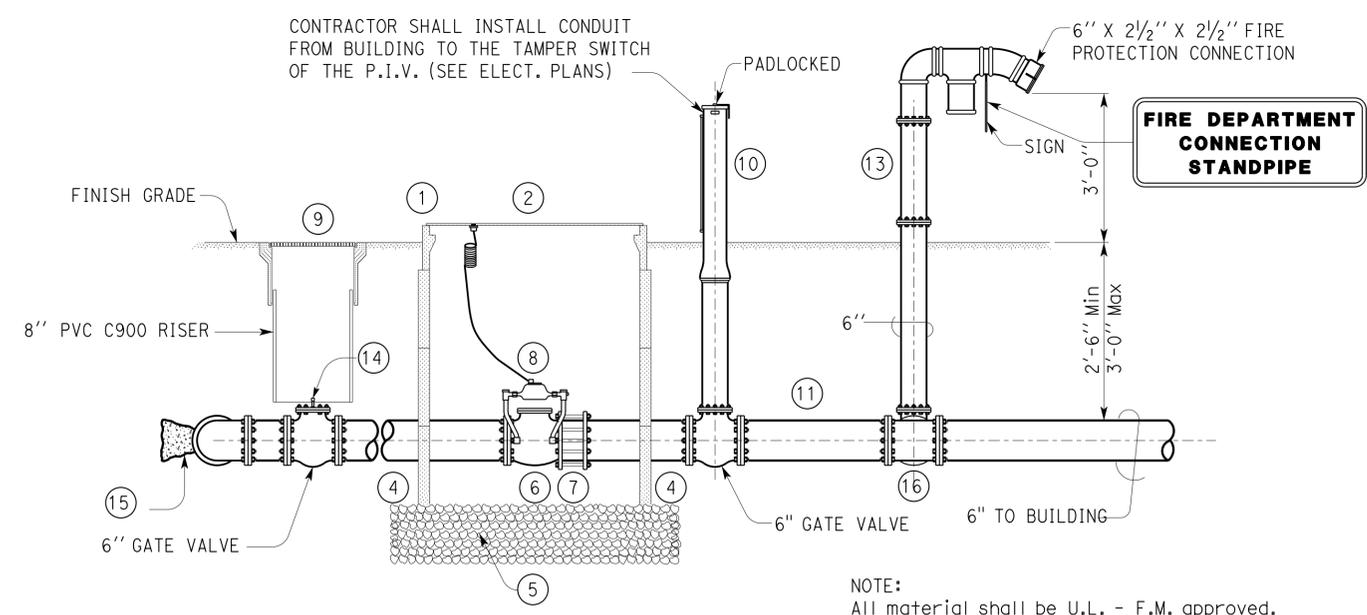


**2 BURIED PIPE**



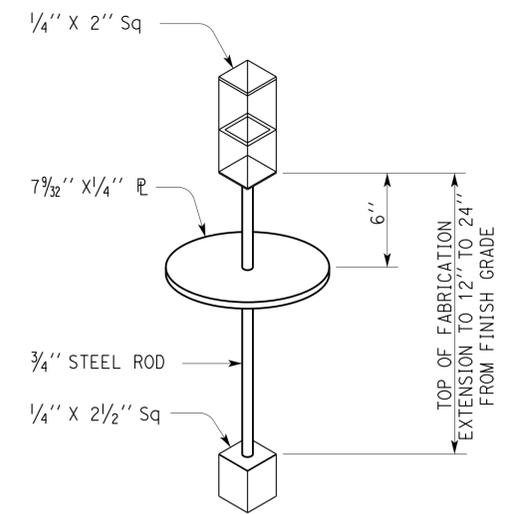
**3 STANDARD VALVE BOX INSTALLED IN TRAFFIC AREA**

REQUIRED THRUST BLOCK BEARING AREA- TOTAL SQUARE FEET				
TYPE OF FITTING	90° BEND	45° BEND	11¼ BEND 22½ BEND	TEE OR DEAD END
TYPICAL INSTALLATION				
PIPE SIZE	4"	2.25	1	2.25
	6"	4.25	2.25	3.25
	8"	7.5	4.25	5.5
	10"	12	6.5	8.75



**4 FIRE WATER CONNECTION**

- NOTES:
- Reinforced concrete utility box with extensions.
  - 2 piece steel checker plate with two 10" round self closing reading lids and 1 3/4" hole for touch read module in one reading lid.
  - N/A
  - 2" X 2" redwood support frame around box perimeter.
  - 3/4" crushed rock sub-base, 1'-0" to 1'-6" deep.
  - 6" detector check valve.
  - Flanged coupling adapter.
  - 5/8" X 3/4" bypass meter (cubic feet registered)
  - Valve box and lid
  - Flanged post indicator valve with breakaway lock.
  - Ductile iron spool.
  - N/A
  - 6" check valve.
  - Install valve operating nut extension where valve is in excess of 2'-6" below grade, for detail, see this sheet.
  - Construct thrust blocks of class "b" concrete bearing area as shown.
  - 6" X 6" X 6" flanged tee.



**VALVE OPERATING NUT EXTENSION**

NO SCALE

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					POST MILE X	BUILDING 1	PLUMBING DETAILS - 2	MP1-5.2
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3615 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEWW Imperial - CCSC Rev. 01/13						04-16-13 11-25-13 2-21-14		30-APR-2014 10:29

**GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-ARM ELECTROLIER	SP	SWITCH AND PILOT LIGHT
<b>CEILING</b>	<b>WALL</b> SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE	SMC	MOMENTARY CONTACT SWITCH
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE	SWP	WEATHERPROOF SWITCH
	SELF-LUMINOUS EXIT SIGN	SF	FAN SWITCH
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE	SL	LIGHT SWITCH
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE	SH	HEATER SWITCH
	EMERGENCY LIGHT FIXTURE WITH BATTERY	SVS	VARIABLE SPEED MOTOR CONTROL SWITCH
NOTE:	A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.	SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
	EXAMPLE : (4) F2-2x32 ├── 32 WATT LAMPS ├── 2 LAMPS ├── DESIGN TYPE └── FLUORESCENT └── NUMBER OF FIXTURES	SM	MOTION SENSOR SWITCH
	BLANK OUTLET	ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
	JUNCTION BOX	STS	DIGITAL TIMER SWITCH
	FOURPLEX RECEPTACLE OUTLET	SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	DUPLEX RECEPTACLE OUTLET	TS	EXHAUST FAN TIMER SWITCH
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)	PB	PUSHBUTTON
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)	PS	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET	PSM	PUSHBUTTON STATION MOTOR CONTROL
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET	BZ	BUZZER
	SINGLE RECEPTACLE OUTLET	FB	FIRE ALARM BELL
	FLOOR SINGLE RECEPTACLE OUTLET	CR	CONTROL RELAY
	FLOOR DUPLEX RECEPTACLE OUTLET	FS	FLOW SWITCH
	FLOOR RADIO OUTLET	PEU	PHOTOELECTRIC UNIT
	SWITCH AND SINGLE RECEPTACLE	HC	HAND DRYER NOZZLE
	SWITCH AND DUPLEX RECEPTACLE	HU	HUMIDISTAT
	RADIO OUTLET	FLM	FLUSH-MOUNTED PANELBOARD AND CABINET
	COMMUNICATION OUTLET	SFM	SURFACE-MOUNTED PANELBOARD AND CABINET
	SOUND SYSTEM LOUD SPEAKER OUTLET	LP	LIGHTING PANEL
	RADIO OUTLET	PP	POWER PANEL
	TELEVISION OUTLET	CLP	COMBINATION LIGHTING AND POWER
	MICROPHONE OUTLET	MC	MOTOR CONTROLLER
	THERMOSTAT	DS	DISCONNECT SWITCH
S	SINGLE-POLE SWITCH	CC	CONDUIT CONCEALED IN CEILING OR WALL
S2	DOUBLE-POLE SWITCH	CF	CONDUIT CONCEALED IN FLOOR
S3	THREE-WAY SWITCH	CE	CONDUIT EXPOSED
S4	FOUR-WAY SWITCH	CC-L	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT MUST BE 1/2" UNLESS OTHERWISE NOTED.
SD	DIMMING SWITCH TYPE 1	A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT
S2D	DIMMING SWITCH TYPE 2	ALC	ARMORED LIGHTING CABLE CONCEALED IN CEILING OR WALL
S3D	DIMMING SWITCH TYPE 3	*ALC*	ARMORED LIGHTING CABLE EXPOSED
S4D	DIMMING SWITCH TYPE 4	LDC	LIGHTING DIMMING CABLE CONCEALED IN CEILING OR WALL
SK	KEY OPERATED SWITCH	*LDC*	LIGHTING DIMMING CABLE EXPOSED
		MC	CONDUIT, RIGID STEEL, UNDERGROUND
		PVC	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURFACE METAL RACEWAY	OC	WALL OCCUPANCY SENSOR
	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)	OC1	OCCUPANCY SENSOR TYPE 1
	CONDUIT, FLEXIBLE	OC2	OCCUPANCY SENSOR TYPE 2
	CONDUIT, TURN UP	OC3	OCCUPANCY SENSOR TYPE 3
	CONDUIT, TURN DOWN	OC4	OCCUPANCY SENSOR TYPE 4
	CONDUIT SEAL, EXPLOSION-PROOF	OC5	OCCUPANCY SENSOR TYPE 5
	CONDUIT, EXPANSION JOINT	DP	DIMMING PHOTOCELL
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER	ID	INTERFACE DIMMING DEVICE
O	POLE	PP	POWER PACK
	GLASS BREAK DISCRIMINATOR	SP	SECONDARY POWER PACK
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR	G	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR	K	KEYPAD FOR ALARM SYSTEM
	KEYPAD FOR ALARM SYSTEM	MDH	MECHANICAL DOOR HARDWARE
	MECHANICAL DOOR HARDWARE	ARM	ADDRESSABLE RELAY MODULE
	ADDRESSABLE RELAY MODULE	PD	PANIC DEVICE
	PANIC DEVICE	CM	COMBINATION MOTION DETECTOR/PASSIVE INFRARED
	COMBINATION MOTION DETECTOR/PASSIVE INFRARED	EL	ELECTROMECHANICAL LOCK
	ELECTROMECHANICAL LOCK	EH	ELECTRIFIED DOOR HINGE
	ELECTRIFIED DOOR HINGE	FW	FIRE RATED WALL. FOR FIRE RATING WALLS AND PENETRATION DETAILS, SEE ARCHITECTURAL PLAN SHEETS A3-8.8a THROUGH A3-8.8d
	FIRE RATED WALL. FOR FIRE RATING WALLS AND PENETRATION DETAILS, SEE ARCHITECTURAL PLAN SHEETS A3-8.8a THROUGH A3-8.8d	LB	MAGNETIC DOOR LOCK
	MAGNETIC DOOR LOCK	LG	LOCK GUARD
	LOCK GUARD	EPT	ELECTRICAL POWER TRANSFER HINGE
	ELECTRICAL POWER TRANSFER HINGE	EM	ELECTROMAGNETIC LOCK SET
	ELECTROMAGNETIC LOCK SET	R	DIGITAL CARD READER
	DIGITAL CARD READER	TS	REMOTE TEST SWITCH
	REMOTE TEST SWITCH		

**GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS**

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
G	GENERATOR
M	MOTOR
F	FAN MOTOR

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		282	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Castano*  
INGRID P. CASTANO  
Approval date: 02-11-14

**REMODEL WORK**

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
-E---E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-X---X-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

SYMBOL	DESCRIPTION
	WALL EMERGENCY LIGHT
	WALL COMBINATION EMERGENCY LIGHT AND EXIT SIGN
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Catalino Enriquez	CHECKED James Lacy	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>  LEGEND	SHEET EEO-0
DETAILS BY Ed D. Tapalla 3/13	CHECKED Catalino Enriquez		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		
QUANTITIES BY Catalino Enriquez	CHECKED James Lacy		UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
TAEMWW Imperial - CCSC Rev. 01/13	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)	3-25-13 10-25-13 2-11-14 2-21-14	SHEET OF	

30-APR-2014 10:29

**AMPERE FRAME**

- A**
- A/C AIR CONDITIONING UNIT
  - ACS AIR COMPRESSOR STARTER
  - AF AMPERE FRAME SIZE
  - AFCI ARC FAULT CIRCUIT INTERRUPTER
  - AI ANALOG INPUT
  - AL ALARM LIGHT
  - ALC ARMORED LIGHTING CABLE
  - AR ALARM RESET
  - AT AMPERE TRIP
  - AVC AIR VOLUME CONTROLLER
- B**
- BBCP BLAST BOOTH CONTROL PANEL
  - BC BARE COPPER
  - BD BUILDING DISCONNECT
  - BP BOOSTER PUMP
  - Brk BREAKER
  - BRU BLAST AND RECOVERY UNIT
- C**
- Cat CATEGORY
  - CC CENTER CHANNEL LIGHT
  - CCTV CLOSED CIRCUIT TELEVISION
  - CD CONTROL DISCONNECT
  - CM CENTER MARGIN LIGHT
  - COMM COMMUNICATION
  - CR CONTROL RELAY
  - CSW CURRENT SWITCH
- D**
- DC DIRECT CURRENT
  - DH DEHUMIDIFIER
  - DMM DIGITAL MULTI METER
  - DO DIGITAL OUTPUT
  - DP DUPLEX PLUG RECEPTACLE
  - DS DOOR SWITCH
- E**
- (E) EXISTING
  - EF EXHAUST FAN
- F**
- FACP FIRE ALARM CONTROL PANEL
  - F FUSE
  - FL FAILURE LIGHT
  - FLA FLASHER
  - Flex FLEXIBLE CONDUIT
  - FLS FLOW SWITCH
  - FR FAILURE RESET or FLAME RESISTANT
  - FS FLOAT SWITCH

- G**
- G GROUND
  - Ga GAUGE
  - GFCI GROUND FAULT CIRCUIT INTERRUPTER
- H**
- hp HORSEPOWER
  - HVAC HEATING, VENTILATING AND AIR CONDITIONING
  - HWH HOT WATER HEATER
- I**
- IC IRRIGATION CONTROLLER
  - ICC IRRIGATION CONTROLLER CABINET
  - IFS INTEGRATED FACILITIES SWITCHBOARD
  - IR INDUCTION RELAY
  - ISR INTRINSICALLY SAFE RELAY
- L**
- L LIGHT or LENGTH
  - LC LIGHTING CONTACTOR
  - LCD LIQUID CRYSTAL DISPLAY
  - LCH LIGHTING CONTROL HUB
  - LCP LIGHTING CONTROL PANEL
  - LD LIGHT DISCONNECT
  - LDC LIGHTING DIMMING CABLE
  - LL LIQUID LEVEL RELAY
  - LLC LIQUID LEVEL CONTROLLER
  - LNG LIGHTING NETWORK GATEWAY
  - LNP LIGHTING NETWORK PANEL
  - LS LIGHT SWITCH
  - LT LIGHT TRANSFORMER
- M**
- MAU MAKE-UP AIR UNIT
  - MB MAIN BREAKER
  - MC METALLIC CONDUIT
  - MCP MOTOR CIRCUIT PROTECTOR
  - MCC MOTOR CONTROL CENTER
  - MD MOTOR DISCONNECT
  - MH MOUNTING HEIGHT
  - MBCP MIX BOOTH CONTROL PANEL
  - MSB MAIN SWITCHBOARD
- N**
- (N) NEW
  - NC NORMALLY CLOSED
  - NO NORMALLY OPEN
  - NSW NEUTRAL SWITCHING BREAKER

- O**
- OL OVERLOAD
- P**
- PCP PUMP CONTROL PANEL
  - PD PUMP DISCONNECT
  - PFR PHASE FAILURE RELAY
  - PFRD PHASE FAILURE RELAY DISCONNECT
  - PL PILOT LIGHT
  - PS PRESSURE SWITCH
  - PTS POWER TRANSFER SWITCH
  - PV PHOTOVOLTAIC
- R**
- RD RECEPTACLE DISCONNECT
  - REC RECEPTACLE
  - Rm ROOM
  - RMC RIGID METAL CONDUIT
  - RSC RIGID STEEL CONDUIT
  - RTB RADIO TERMINAL BOARD
- S**
- S STARTER COIL
  - SCCR SHORT CIRCUIT CURRENT RATING
  - Sch SCHEDULE
  - SD SERVICE DISCONNECT
  - Sec SECONDS
  - SFR SEAL FAILURE RELAY
  - SL SUMP LIGHT
  - SPD SURGE PROTECTION DEVICE
  - SPR STANDBY POWER RECEPTACLE
  - Sq SQUARE
  - SS SELECTOR SWITCH
  - ST STARTER
  - SV SOLENOID VALVE
  - SWIM SLOW WEIGH-IN-MOTION
- T**
- TB TERMINAL BLOCK
  - TC TELEPHONE CABLE
  - TDR TIME DELAY RELAY
  - TGLS TOGGLE SWITCH
  - TM TIME METER
  - TS TIMER SWITCH
  - TSW TEST SWITCH
  - TTB TELEPHONE TERMINAL BOARD

- U**
- UH UNIT HEATER
  - UPS UNINTERRUPTIBLE POWER SUPPLY
- W**
- WH WALL HEATER
  - WLS WATER LEVEL SWITCH
  - WP WEATHERPROOF
- X**
- XFMR TRANSFORMER

**SYMBOLS**

- ∠ ANGLE
- @ AT
- ° DEGREES
- Δ DELTA
- ∅ PHASE
- ± PLUS OR MINUS

**PROJECT NOTES**

- A. Separate grounded (Neutral) conductor must be used for each 120-Volt circuit.
- B. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined. Circuit breaker assignments must be as shown.
- C. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.
- D. Penetrations of walls, wall membranes and ceiling systems which are required to have a fire-resistance rating must be protected with through-penetration fire stops, suitable for the method of penetration. Through-penetration fire stops must be tested using ASTM E814, UL 1479 & C.B.C. Sections. For fire rating walls and penetration details, see Architectural plan sheets A3-8.8a through A3-8.8d.

- E. Penetrations of full height interior wall partitions must be sealed air-tight. For full height wall partitions, see Architectural Plans.
- F. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheet ST1-14.
- G. Outlet boxes on opposite sides of fire-resistive walls must be separated by a horizontal distance of 24 inches (CBC section 709.7).
- H. For exact location of fire rated walls, see Architectural Plan sheets.
- I. The fire alarm system must conform to the 2010 California Electrical Code (CEC) Article 760 and the 2010 California Fire Code (CFC) Section 105.7 and Section 907.
- J. Installation of the fire alarm system must not start until detailed plans and specifications, including California State Fire Marshal listing numbers for each component of the system, have been approved by the California State Fire Marshal.
- K. Based upon the approved shop submittals, prepare the following:
  - Stake out the exact location of each Mechanical/Electrical equipment and get it approved by the Engineer.
  - Stake out the conduit stub-out areas for each Mechanical/Electrical equipment.
  - Stub-out conduits as required.
  - During installation of conduits, conduits must be spaced in a manner to allow installation of conduit bushing on them.
  - Conduit stub-outs inside panelboards and switchboards must be accomplished in a manner so that the conduit entering the equipment is in the front half depth of the equipment.

**STANDARD PLANS**

Dated 2010

- A10A
- RSP ES-8A
- RSP A10B
- RSP ES-8B
- RSP ES-1A
- RSP ES-1B
- RSP ES-1C

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *David P. ...*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		283	371

*Catalino A. Enriquez* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Catalino Enriquez	CHECKED	James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE			SHEET <b>EEO-1</b>	
	DETAILS	BY	Ed D. Tapalla 3/13	CHECKED			Catalino Enriquez	33M5785	NOTES AND ABBREVIATIONS			
	QUANTITIES	BY	Catalino Enriquez	CHECKED			James Lacy	POST MILE				

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-25-13, 10-25-13, 1-3-14, 2-21-14

TAEMWW Imperial - CCSC Rev. 01/13

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30-APR-2014 10:29

*Catalino A. Enriquez* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Angela P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

## CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: <b>SAN FRANCISCO BAY BRIDGE WAREHOUSE</b>	Date: <b>10-24-2013</b>
Project Address: <b>200 BURMA ROAD OAKLAND, CA 94607</b>	Total Hardscape Illuminated Area:

**General Information**

Phase of Construction:  New Construction  Addition  Alteration

**Documentation Author's Declaration Statement**

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

Name: <b>CATALINO ENRIQUEZ</b>	Signature: <i>Catalino A. Enriquez</i>
Company: <b>CALIFORNIA DEPARTMENT OF TRANSPORTATION</b>	Date: <b>10-24-2013</b>
Address: <b>1801 30TH STREET, MS9-3/11H</b>	If applicable: CEA # CEPE #
City/State/Zip: <b>SACRAMENTO, CALIFORNIA 95816</b>	Phone: <b>916-227-8833</b>

**Principal Lighting Designer's Declaration Statement**

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: <b>CATALINO ENRIQUEZ</b>	Signature: <i>Catalino A. Enriquez</i>
Company: <b>CALIFORNIA DEPARTMENT OF TRANSPORTATION</b>	Phone: <b>916-227-8833</b>
Address: <b>1801 30TH STREET, MS9-3/11H</b>	License # <b>E 16944</b>
City/State/Zip: <b>SACRAMENTO, CALIFORNIA 95816</b>	Date: <b>6-30-2015</b>

**Principal Lighting Designer's Declaration**

I Certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

**Outdoor Lighting Mandatory Measures**

Indicate location on building plans of Mandatory Measures Note Block: EEO-4

**LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)**

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

OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.

OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.

OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.

OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

## CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

**COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST**

Project Name: **SAN FRANCISCO BAY BRIDGE WAREHOUSE** Date: **10-24-2013**

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.)  **Field Inspection**

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.)  **Field Inspection**

Luminaire Schedule					Installed Watts					
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector	
					Default from NA-8	According to S 130 (d or e)			Pass	Fail
L1E	WALL, LED, INTEGRATED MOTION SENSOR, REMOTE PHOTOCCELL	FC	109	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17	1853	<input type="checkbox"/>	<input type="checkbox"/>
L2E	WALL, LED, INTEGRATED MOTION SENSOR, REMOTE PHOTOCCELL	FC	75	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	750	<input type="checkbox"/>	<input type="checkbox"/>
L3E	WALL, LED, INTEGRATED MOTION SENSOR, REMOTE PHOTOCCELL	FC	40	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	120	<input type="checkbox"/>	<input type="checkbox"/>
L4E	SURFACE, LED, INTEGRATED MOTION SENSOR, REMOTE PHOTOCCELL	FC	47	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	282	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								<b>3,005</b>		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).

2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

**EXEMPT LUMINAIRES**  **Field Inspection**

Name or Symbol	Description of exempt luminaires in accordance with S 147

**MANDATORY CONTROLS**  **Field Inspection**

#	Description	Location	#	Description	Location
1	Photocell, Motion Sensor, Dimming	Building Exterior Wall			
2	Photocell, Motion Sensor, Dimming	Storage Canopy			

**SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)**

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies base on the adequacy of the special justification and documentation submitted.

50% OF LOAD SHEDDING is achieved for all exterior lights by dimming light output to 50% when no motion is detected by the motion sensor integrated to each light fixture.

**Field Inspector Notes or Discrepancies:**

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <i>Catalino Enriquez</i>	CHECKED <i>James Lacy</i>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> OUTDOOR LIGHTING COMPLIANCE FORM 1	SHEET <b>EEO-2</b>
DETAILS BY <i>Dali Zhou</i>	CHECKED <i>Catalino Enriquez</i>			POST MILE		
QUANTITIES BY <i>Catalino Enriquez</i>	CHECKED <i>James Lacy</i>					

### CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **SAN FRANCISCO BAY BRIDGE WAREHOUSE** Date: **10-24-2013**

#### A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE:  OLZ 1  OLZ 2  OLZ 3  OLZ 4

Is the Outdoor Lighting Zone:  Default in accordance with S 10-114, or  Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in S 10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

#### B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? Yes  No

Complete the information below if the additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required S 10-114(f) to the Executive Director.

#### C. ACCEPTANCE FORMS

Required Acceptance Tests

##### Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for the Lighting system, OLTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a tests, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be a part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

##### Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of S 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

Equipment Requiring Testing	Description	Luminaires Controlled		Outdoor Lighting Acceptance Tests
		Number of Like Controls	Location	
Bldg. Exterior Lighting Ctrl Panel	ATS, Photocontrol	2	Electrical Rooms	✓
L1E	Integrated Motion Sensor	17	Building Exterior Walls	✓
L2E	Integrated Motion Sensor	10	Building Exterior Walls	✓
L3E	Integrated Motion Sensor	3	Building Exterior Walls	✓
L4E	Integrated Motion Sensor	6	Storage Canopy	✓
L5E	LED Sign Light	1	Storage Canopy	✓

1. Insert: **OMS** for Outdoor Motion Sensor; **OLSC** for Outdoor Lighting Shutoff Controls; **OP** for Outdoor Photocontrol; **ATS** for Astronomical Time Switch; and, **STS** for Standard (non-astronomical) Time Switch acceptance.

2008 Nonresidential Compliance Forms

July 2010

### CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **SAN FRANCISCO BAY BRIDGE WAREHOUSE** Date: **10-24-2013**

#### ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	2,930
B	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)	0
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	0
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	1,505
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	777
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	0
G	Total Allowed Wattage = Sum of rows A through F:	5,212
H	Total installed Watts (from Luminaire Schedule, (from OLTG-1C (Page 2 of 4)	3,005

Provided that the lighting wattage power allowance listed in rows A through F are identical to the lighting wattage power allowance taken from OLTG-2C pages 1 through 3, complies if installed Wattage in row H is less than or equal to the Total Allowed Wattage in row G  Yes  No

#### NOTES:

2008 Nonresidential Compliance Forms

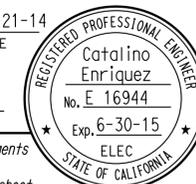
July 2010

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		285	371

*Catalino A. Enriquez* 02-21-14  
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
PLANS APPROVAL DATE

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785  
POST MILE

SFOBB WAREHOUSE

OUTDOOR LIGHTING COMPLIANCE FORM 2

SHEET EEO-3

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		286	371

*Catalino A. Enriquez* 02-21-14  
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
PLANS APPROVAL DATE

*Catalino Enriquez*  
No. E 16944  
Exp. 6-30-15  
ELEC  
STATE OF CALIFORNIA

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**CALIFORNIA STATE FIRE MARSHAL APPROVED**

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 02-11-14

### CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: <b>SAN FRANCISCO BAY BRIDGE WAREHOUSE</b>		Date: <b>10-24-13</b>
Project Address: <b>200 BURMA ROAD OAKLAND, CA 94607</b>	Climate Zone: <b>3</b>	Building CFA: <b>32,208*</b> Unconditioned Floor Area: <b>11,004</b>

**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

Method of Compliance:  Complete Building  Area Category  Tailored

**Documentation Author's Declaration Statement**

- I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: **Catalino Enriquez** Signature: *Catalino A. Enriquez*

Company: **California Dept. of Transportation** Date: **10-25-13**

Address: **1801 30th Street** If applicable: CEA #, CEPE #

City/State/Zip: **Sacramento, CA, 95816** Phone:

**Principal Lighting Designer's Declaration Statement**

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: **Jaswinder Gill** Signature: *Jaswinder S Gill*

Company: **California Dept. of Transportation** Phone: **916-227-9492**

Address: **1801 30th Street,** License #: **E18551**

City/State/Zip: **Sacramento, CA, 95816** Date: **12-31-14**

**Lighting Mandatory Measures**  
Indicate location on building plans of Mandatory Measures Note Block: THIS SHEET

**LIGHTING COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)**

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

LTG-1C Pages 1 through 4 Certificate of Compliance. All pages required on plans for all submittals.

LTG-2C Lighting Controls Credit Worksheet

LTG-3C Indoor Lighting Power Allowance

LTG-4C Pages 1 through 4 Tailored Method Worksheet

LTG-5C Pages 1 and 2 Line Voltage Track Lighting Worksheet

**2008 Nonresidential Compliance Forms July 2010**

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUT-OFF

- Occupancy sensor for Offices, Hallways, Storage, Restrooms and High Bays.
- Timer switches for task lighting.

INDOOR MULTI-LEVEL LIGHTING CONTROL

- Continuous dimming through wall mounted dimmer switches for Offices, Hallways, Storage, Restrooms and High Bays.
- LED lights with 0-10V dimmable ballast to achieve manual dimming through wall dimmer switches for all areas.

DAYLIT AREA CONTROL

- Photoelectric cell unit and wall dimmer switches for all spaces with daylighting area greater than 2500 square foot.

BUILDING EXTERIOR, CANOPY LIGHTING

- Photoelectric cell unit and astronomical time clock. Time clock function integral to Main Hub provides astronomical time clock functions.
- All exterior luminaries shall have full cut-off type light distribution.
- Fixture integrated motion sensor shall dim the light output by 50% of maximum output when there is no motion detected.

GENERAL NOTE:

Form LTG-1C, page 2 of 4 (Conditional Spaces) and page 2 of 4 (Un-conditional Spaces) are shown on sheet EE0-5.  
Form LTG-1C, page 3 of 4 and page 4 of 4 are shown on sheet. EE0-6.  
Other checked forms are available upon request.

\* Includes attic space square footage also.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <i>Catalino Enriquez</i> CHECKED <i>James Lacy</i> DETAILS BY <i>Dali Zhou</i> CHECKED <i>Catalino Enriquez</i> QUANTITIES BY <i>Catalino Enriquez</i> CHECKED <i>James Lacy</i>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785 POST MILE	<b>SFOBB WAREHOUSE</b> INDOOR LIGHTING COMPLIANCE FORM 1	SHEET <b>EE0-4</b> OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 7-13 10-25-13 1-22-14	SHEET OF

TAEWW Imperial - CCSC Rev. 01/13 P:\dist\_04\0413000133\_sfobb\_maint\_warehouse\elec\files\ones\FINAL\_EXPEDITE (HOPEFULLY)\ee0\_04.dgn 30-APR-2014 10:29



# CERTIFICATE OF COMPLIANCE (Page 3 of 4) LTG-1C

Project Name: **SAN FRANCISCO BAY BRIDGE WAREHOUSE** Date: **10-24-13**

## INDOOR LIGHTING SCHEDULE and FIELD ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylight areas > 250 sq ft, automatic daylighting controls for daylight areas > 2,500 sq ft, d) shut-off controls, e) display lighting controls, f) tailored lighting controls-general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 sq ft, in accordance with Section 131.

## MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type/Description	Number of Units	Location in Building	Field Inspector	
			Pass	Fail
Wall Occupancy Sensor, OC	8	Bridge Paint Area	<input type="checkbox"/>	<input type="checkbox"/>
Ceiling Occupancy Sensor Type 1, OC1	7	Lobby, Kitchen, Hallway, Janitor	<input type="checkbox"/>	<input type="checkbox"/>
Ceiling Occupancy Sensor Type 2, OC2	3	Office, Restrooms	<input type="checkbox"/>	<input type="checkbox"/>
Fixture Occupancy Sensor Type 3, OC3	16	Standard Areas	<input type="checkbox"/>	<input type="checkbox"/>
Fixture Occupancy Sensor Type 4, OCD	69	Sky-lit Areas	<input type="checkbox"/>	<input type="checkbox"/>
Ceiling Occupancy Sensor Type 5, OC5	4	Electrical Rooms, DO Storage	<input type="checkbox"/>	<input type="checkbox"/>
Digital Timer Switch, D <sub>TS</sub>	4	IT Closet, Attic Space	<input type="checkbox"/>	<input type="checkbox"/>
Light Switch, S <sub>L</sub>	10	Office, Lobby, Kitchen, Storage Areas	<input type="checkbox"/>	<input type="checkbox"/>
Dimming Switch Type 1, S <sub>D</sub>	33	Single Lighting Zone Areas	<input type="checkbox"/>	<input type="checkbox"/>
Dimming Switch Type 2, S <sub>2D</sub>	6	Multiple Lighting Zone Areas	<input type="checkbox"/>	<input type="checkbox"/>
Dimming Switch Type 3, S <sub>3D</sub>	3	Multiple Lighting Zone Areas	<input type="checkbox"/>	<input type="checkbox"/>
Dimming Switch Type 4, S <sub>4D</sub>	8	Multiple Lighting Zone Areas	<input type="checkbox"/>	<input type="checkbox"/>
Dimming Photocell, DP	15	Sky lit Areas	<input type="checkbox"/>	<input type="checkbox"/>
Power Pack, PP, SP	47	Office and Storages Areas	<input type="checkbox"/>	<input type="checkbox"/>
Interface Dimming Device, ID	22	Office and Storages Areas	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Control Hub, LCH	9	Electrical Rooms, Open-ceiling Areas	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Network Gateway, LNG	2	Electrical Rooms	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Network Panel, LNP	2	Electrical Rooms	<input type="checkbox"/>	<input type="checkbox"/>

Field Inspectors' Notes or Discrepancies:

2008 Nonresidential Compliance Forms

July 2010

# CERTIFICATE OF COMPLIANCE (Page 4 of 4) LTG-1C

Project Name: **SAN FRANCISCO BAY BRIDGE WAREHOUSE** Date: **10-24-13**

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
8,995		4,889	
Lighting Control Credit Conditioned Spaces (from LTG-2C)	- 671	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	- 900
Adjusted Installed Lighting Power	= 8,324	Adjusted Installed Lighting Power	= 3,989
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)	15,352	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	6,637

## Required Acceptance Tests

### Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, LTG-2A and LTG-3A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

### Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A and LTG-3A forms are not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of S 10-103 (b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A and LTG-3A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled			LTG-2A and LTG-3A	
Equipment Requiring Testing	Description	Number of Like Controls	Controls and Sensors and Automatic Daylighting Controls Acceptance	
OC	Wall Occupancy Sensor	8	Bridge Paint Area	<input checked="" type="checkbox"/>
OC1	Ceiling Occupancy Sensor Type 1	7	Lobby, Kitchen, Hallway, Janitor	<input checked="" type="checkbox"/>
OC2	Ceiling Occupancy Sensor Type 2	3	Office, Restrooms	<input checked="" type="checkbox"/>
OC3	Fixture Occupancy Sensor Type 3	16	Standard Areas	<input checked="" type="checkbox"/>
OCD	Fixture Occupancy Sensor Type 4	69	Sky-lit Areas	<input checked="" type="checkbox"/>
OC5	Ceiling Occupancy Sensor Type 5	4	Electrical Rooms, DO Storage	<input checked="" type="checkbox"/>
D <sub>TS</sub>	Digital Timer Switch	4	IT Closet, Attic Space	<input checked="" type="checkbox"/>
S <sub>L</sub>	Light Switch	10	Office, Lobby, Kitchen, Storage Areas	<input checked="" type="checkbox"/>
S <sub>D</sub>	Dimming Switch Type 1	33	Single Lighting Zone Areas	<input checked="" type="checkbox"/>
S <sub>2D</sub>	Dimming Switch Type 2	6	Multiple Lighting Zone Areas	<input checked="" type="checkbox"/>
S <sub>3D</sub>	Dimming Switch Type 3	3	Multiple Lighting Zone Areas	<input checked="" type="checkbox"/>
S <sub>4D</sub>	Dimming Switch Type 4	8	Multiple Lighting Zone Areas	<input checked="" type="checkbox"/>
DP	Dimming Photocell	15	Sky lit Areas	<input checked="" type="checkbox"/>
PP,SP	Power Pack	47	Office and Storages Areas	<input checked="" type="checkbox"/>
ID	Interface Dimming Device	22	Office and Storages Areas	<input checked="" type="checkbox"/>
LCH	Lighting Control Hub	9	Electrical Rooms, Open-ceiling Areas	<input checked="" type="checkbox"/>
LNG	Lighting Network Gateway	2	Electrical Rooms	<input checked="" type="checkbox"/>
LNP	Lighting Network Panel	2	Electrical Rooms	<input checked="" type="checkbox"/>

2008 Nonresidential Compliance Forms

July 2010

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		288	371

Catalino A. Enriquez 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE  
 3-24-14  
 PLANS APPROVAL DATE  
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**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785  
 POST MILE

SFOBB WAREHOUSE

INDOOR LIGHTING COMPLIANCE FORM 3

SHEET EEO-6

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		289	371

Javid Amirzodi 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Javid Amirzodi  
 No. E 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

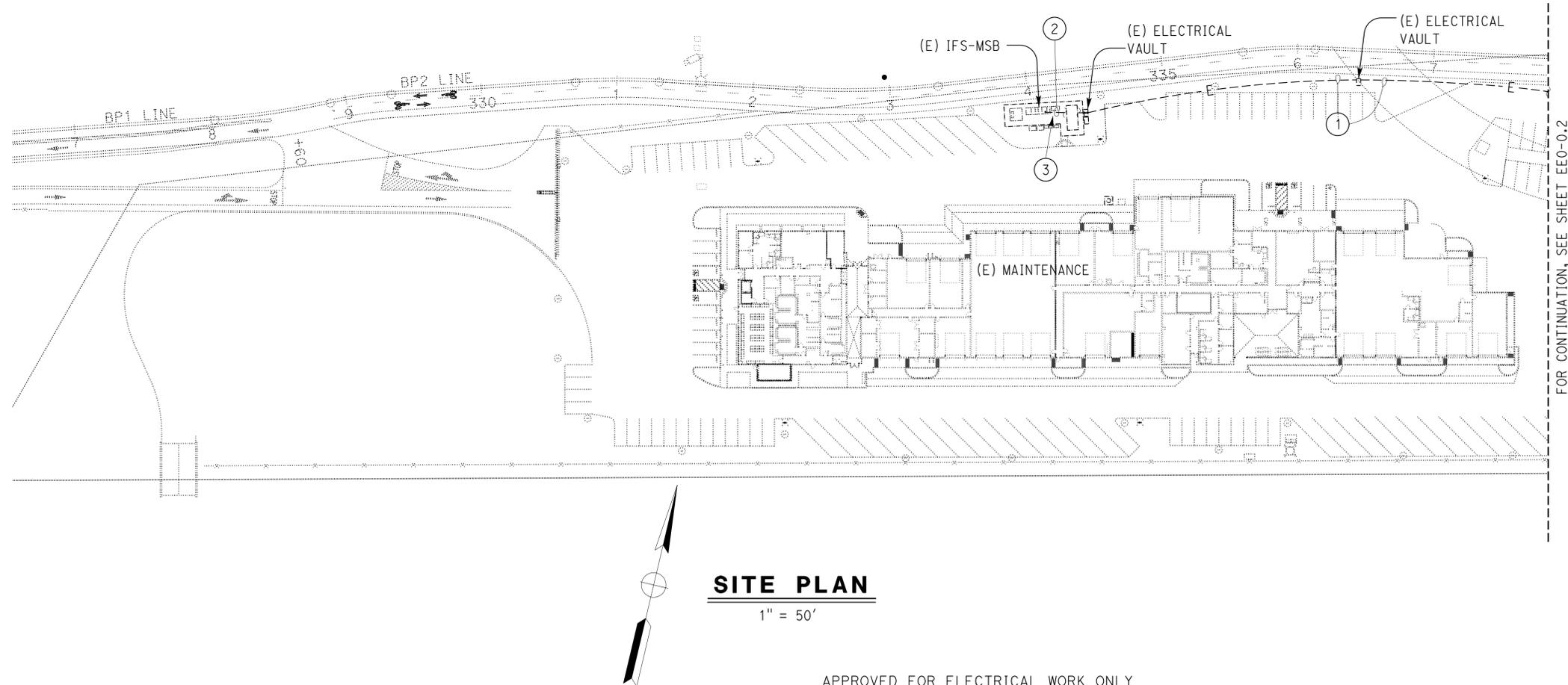
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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

**GENERAL NOTES:**

- A. Not all electrical/mechanical equipment and conduit systems are shown.
- B. Location of all existing equipment, pull boxes, vaults and conduit systems as shown are approximate only. Exact location of all equipment, pull boxes, vaults and conduit systems must be verified in the field prior to the beginning of work. No additional cost will be paid for locating of existing equipment, pull boxes, vaults and conduit systems.
- C. Where required to trench and saw cut, disturbed and/or damaged surfaces must patch to match surrounding surfaces.
- D. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- E. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

**NOTES:**

- ① -Existing three 4"C, (PVC) empty. Install 4#600 Kcmil, 1#600 Kcmil ground in each conduit.  
-Existing 4"C, (PVC) empty. Install 4#4/0, 1#4/0 ground in conduit.
- ② -Existing three 4"C, (PVC) empty to Distribution Section of existing IFS-MSB. Install 4#600 Kcmil, 1#600 Kcmil ground in each conduit and terminate on existing 1000 Ampere, 3-pole Warehouse Building Disconnect, neutral bus and ground bus as required.  
-Existing 4"C, (PVC) empty to existing Warehouse Building Photovoltaic AC Disconnect Switch. Install 4#4/0, 1#4/0 ground in conduit and terminate on existing Warehouse Building Photovoltaic AC Disconnect Switch as required.
- ③ Install signs per Details 10 and 11 of plan sheet EE1-11.4 for the existing Warehouse Building Photovoltaic AC Disconnect Switch.



**SITE PLAN**  
1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR <i>Jacob Schreff</i> DESIGN ENGINEER <i>Mark Chap</i>	DESIGN BY Javid Amirzodi CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE	<b>SFOBB WAREHOUSE</b> POWER SITE PLAN 1	SHEET OF <b>EEO-0.1</b>
	DETAILS BY Ed D. Tapalla 3/13 CHECKED Javid Amirzodi			QUANTITIES BY Javid Amirzodi CHECKED Jaswinder Gill		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEWW Imperial - CCSC Rev. 01/13

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		290	371

Javid Amirazodi  
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14  
 3-24-14  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Javid Amirazodi  
 No. E. 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

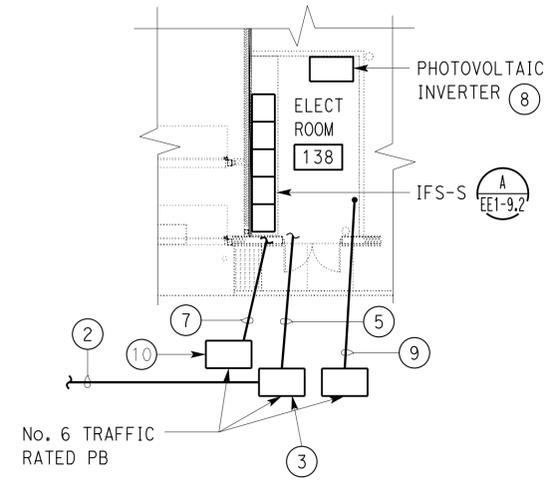
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 Reviewed by: *Javid Amirazodi*  
 INGRID P. ICASIANO  
 Approval date: 02-11-14

**GENERAL NOTES:**

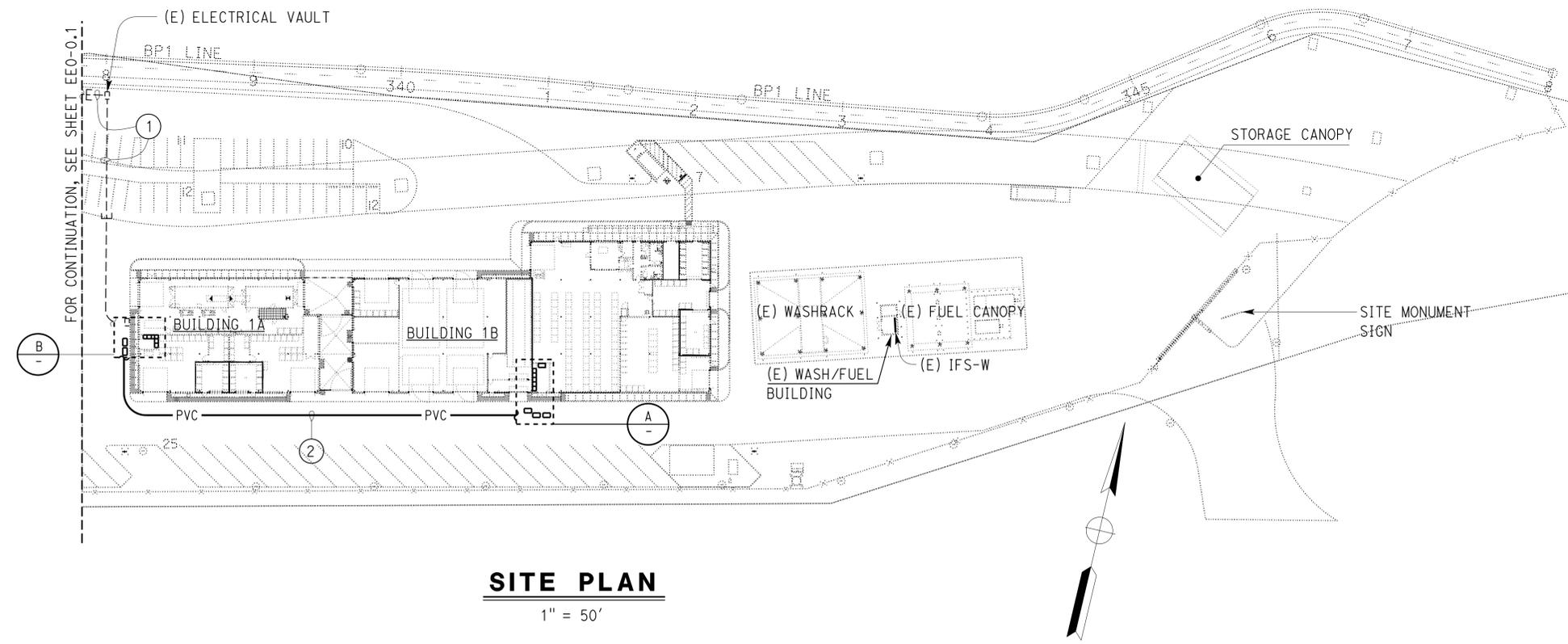
- A. Not all Electrical/Mechanical equipment and conduit systems are shown.
- B. Location of all existing equipment, pull boxes, vaults and conduit systems as shown are approximate only. Exact location of all equipment, pull boxes, vaults and conduit systems must be verified in the field prior to the beginning of work. No additional cost will be paid for locating of existing equipment, pull boxes, vaults and conduit systems.
- C. Where required to trench and saw cut, disturbed and/or damaged surfaces must be patched to match surrounding surfaces.
- D. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 millimeter thick pipe wrapping tape.
- E. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.
- F. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.
- G. For Room 109 Enlarged Plan, see sheet EE1-9.1.
- H. For Room 138 Enlarged Plan, see sheet EE1-9.2.

**NOTES:**

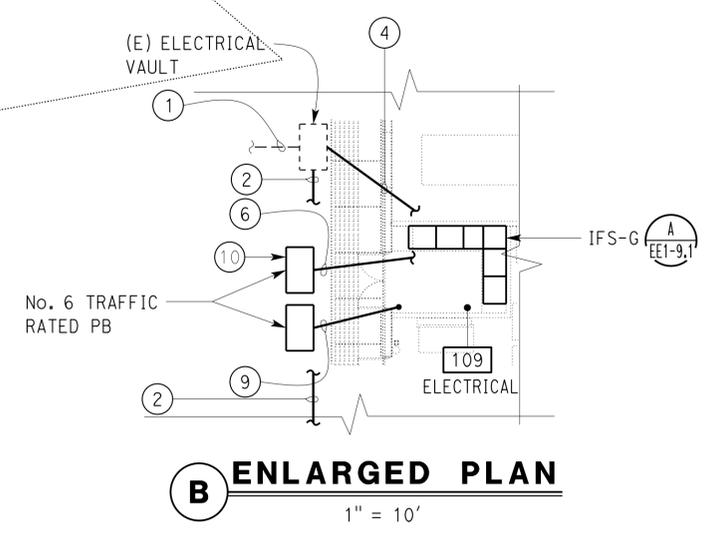
- ① -Existing Three 4"C, (PVC) empty. Install 4#600 Kcmil, 1#600 Kcmil ground in each conduit.
- Existing 4"C, (PVC) empty. Install 4#4/0, 1#4/0 ground in conduit.
- ② 4"C, PVC, 4#4/0, 1#4/0 ground.
- ③ Install ground rod inside pull box and bond metal pull box cover to ground conductors.
- ④ Three 4"C, PVC, 4#600 Kcmil, 1#600 Kcmil ground in each conduit to 1000 Ampere, 3-pole Warehouse Building Disconnect, neutral bus and ground bus inside IFS-G. Terminate conductors as required.
- ⑤ 4"C, PVC, 4#4/0, 1#4/0 ground. For continuation, see EE1-11.3.
- ⑥ Three 4"C, PVC, PT. Stub up one in each 480-Volt, 240-Volt and 208-Volt section of IFS-G.
- ⑦ Three 4"C, PVC, PT. Stub up one in each 480-Volt, 240-Volt and 208-Volt section of IFS-S.
- ⑧ For exact location of photovoltaic inverter and related equipment, see EE1-11.3.
- ⑨ Three 2"C, PVC, PT. Stub up 6" from wall for future communication use.
- ⑩ Install ground rod inside pull box for future use.



**A ENLARGED PLAN**  
1" = 10'



**SITE PLAN**  
1" = 50'



**B ENLARGED PLAN**  
1" = 10'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN  
 BRIDGE No. 33M5785  
 POST MILE

SFOBB WAREHOUSE  
 POWER SITE PLAN 2  
 SHEET EE0-0.2  
 REVISION DATES (PRELIMINARY STAGE ONLY)  
 3-28-13 10-28-13 2-21-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		291	371

<i>Javid Amirazodi</i>	02-21-14
REGISTERED ELECTRICAL ENGINEER	DATE

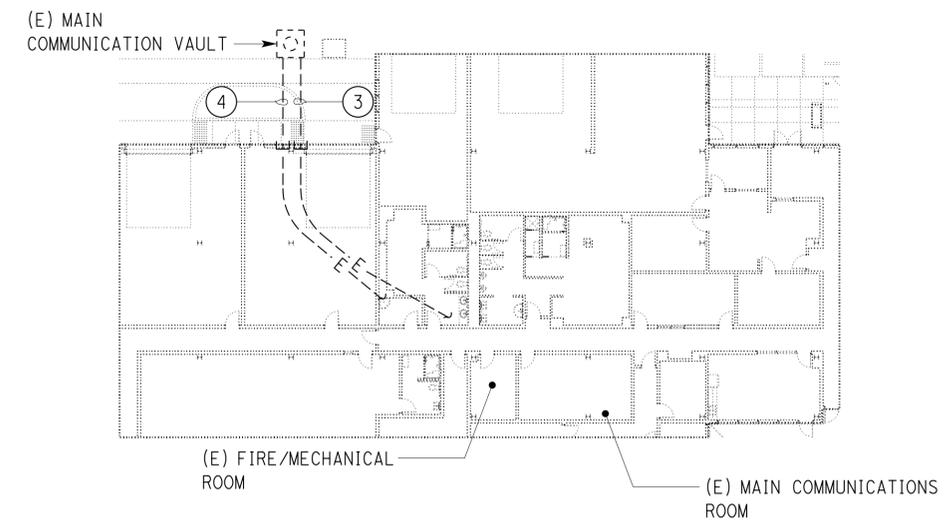
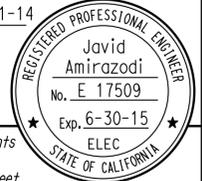
  

3-24-14
PLANS APPROVAL DATE

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*

**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

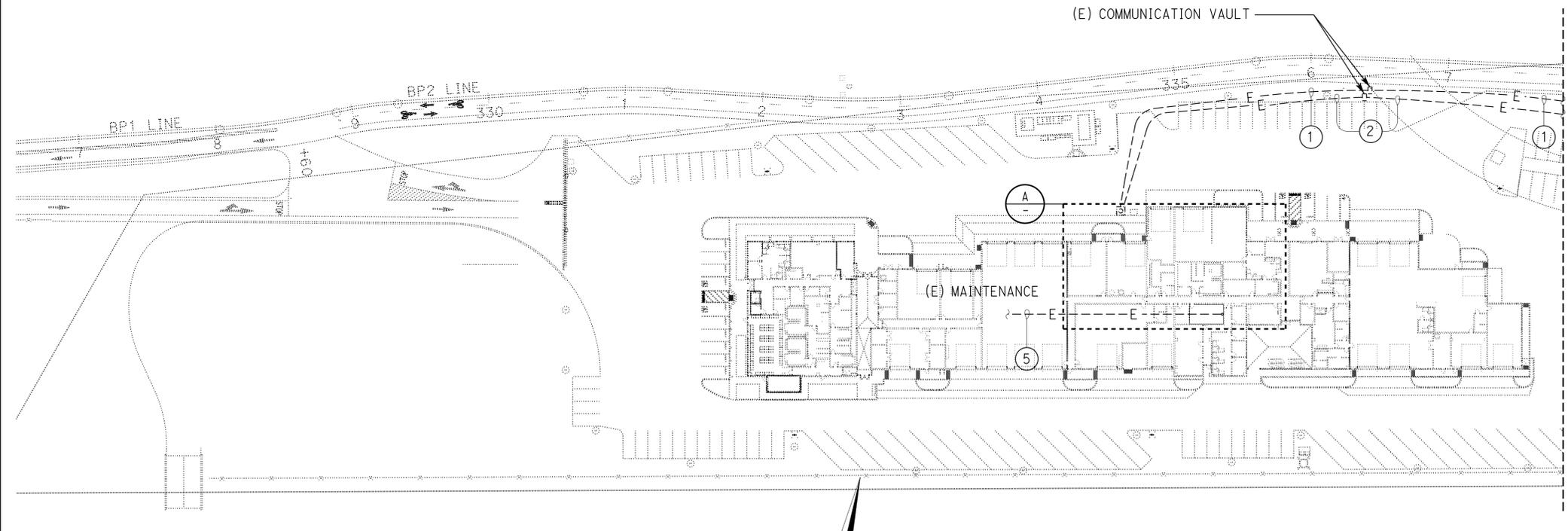


**A ENLARGED PLAN**  
 1" = 20'

- GENERAL NOTES:
- Not all electrical/mechanical equipment and conduit systems are shown.
  - Location of all existing equipment, pull boxes, vaults and conduit systems as shown are approximate only. Exact location of all equipment, pull boxes, vaults and conduit systems must be verified in the field prior to the beginning of work. No additional cost will be paid for locating of existing equipment, pull boxes, vaults and conduit systems.
  - Where required to trench and saw cut, disturbed and/or damaged surfaces must patch to match surrounding surfaces.
  - All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.

NOTES:

- Existing 4"C, (PVC) empty. Install nine speaker cables.  
 -Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.  
 -Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.  
 -Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.
- Existing 4"C, (PVC) empty. Install control cables for Intrusion Alarm and Access System.  
 -Existing 4"C, (PVC) empty. Install one 2 strands MMFO cable for CCTV System.  
 -Existing 4"C, (PVC) empty. Install control cables for Fire Alarm System.
- Existing 4"C, empty to "Designated Space for Communication Racks" in existing Main Communication Room. Install nine speaker cables.  
 -Existing 4"C, empty to "Designated Space for Communication Racks" in existing Main Communication Room. For installation of new conductors/cables and termination details, see Communication Plans.  
 -Existing 4"C, empty to "Designated Space for Communication Racks" in existing Main Communication Room. For installation of new conductors/cables and termination details, see Communication Plans.  
 -Existing 4"C, empty to "Designated Space for Communication Racks" in existing Main Communication Room. For installation of new conductors/cables and termination details, see Communication Plans.  
 -Existing 4"C, empty to "Designated Space for Intrusion Alarm and Access System" in existing Main Communication Room. Install control cables for Intrusion Alarm and Access System and terminate on existing Intrusion Alarm Control Panel and Access Control Panel and connect to existing system for proper operation as required.  
 -Existing 4"C, empty to "Designated Space for CCTV Racks" in existing Main Communication Room. Install one 2 strands MMFO cable for CCTV System and terminate on existing CCTV Network Switch 1 and connect to existing system for proper operation as required.
- Existing 4"C, empty to existing Fire/Mechanical Room. Install control cables for Fire Alarm System and terminate on existing Fire Alarm Control Panel and connect to existing system for proper operation as required.
- Existing 3"C, (PVC) empty between "Designated Space for Communication Racks" in existing Main Communication Room and "Designated Space for Radio Racks" in existing Radio Room (second floor) of the existing Maintenance Building. Install nine speaker cables in existing conduit and terminate on existing Radio Rack as required. Provide 25 feet of additional length for each speaker cable inside existing Radio Room for future termination.



**SITE PLAN**  
 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785  
 POST MILE

**SFOBB WAREHOUSE**  
 COMMUNICATIONS SITE PLAN 1

SHEET **EEO-0.3** OF

GENERAL NOTES:

- A. Not all Electrical/Mechanical equipment and conduit systems are shown.
- B. Location of all existing equipment, pull boxes, vaults and conduit systems as shown are approximate only. Exact location of all equipment, pull boxes, vaults and conduit systems must be verified in the field prior to the beginning of work. No additional cost will be paid for locating of existing equipment, pull boxes, vaults and conduit systems.
- C. Where required to trench and saw cut, disturbed and/or damaged surfaces must patch to match surrounding surfaces.
- D. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- F. For location of Intrusion Alarm Control Panel, Access Control Panel, Fire Alarm Control Panel 2A and CCTV Network Switch, see EE1-5.1, EE1-6.1 and EE1-7.1 respectively.
- G. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

NOTES:

- ① -Existing 4"C, (PVC) empty. Install nine speaker cables.  
-Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.  
-Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.  
-Existing 4"C, (PVC) empty. For installation of new conductors/cables and details, see Communication Plans.
- ② -Existing 4"C, (PVC) empty. Install control cables for Intrusion Alarm and Access System.  
-Existing 4"C, (PVC) empty. Install one 2 strands MMFO cable for CCTV System.  
-Existing 4"C, (PVC) empty. Install control cables for Fire Alarm System.
- ③ -1"C, PVC, three speaker cables to junction box in Elect Room 109. For continuation, see EE1-8.1.  
-2"C, PVC, six speaker cables to junction box in Bridge Electrical Storage Room 122. For continuation, see EE1-8.1.  
-8-4"C, PVC. For installation of conductors/cables and termination details, see Communication Plans sheet EE1-4.1.
- ④ -4"C, PVC, control cables to Intrusion Alarm Control Panel and Access Control Panel in Electrical Room 109, terminate as required. For continuation, see EE1-5.1.  
-4"C, PVC, one 2 strands MMFO cable to CCTV Network Switch in Electrical Room 109, terminate as required. For continuation, see EE1-7.1.  
-4"C, PVC, control cables to Fire Alarm Control Panel 2A (FACP-2A) in Electrical Room 109, terminate as required. For continuation, see EE1-6.0.

**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 02-11-14

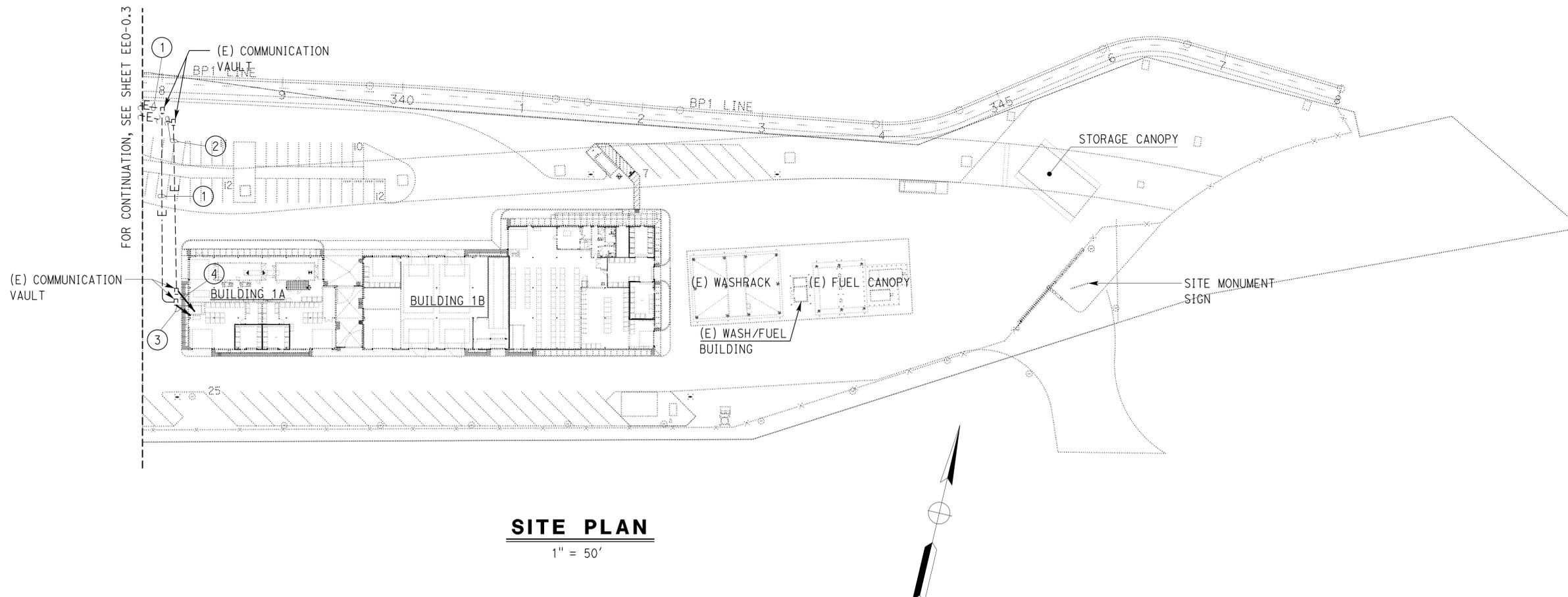
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		292	371

*Javid Amirazodi* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

*Javid Amirazodi*  
 No. E 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*



**SITE PLAN**  
 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <b>Javid Amirazodi</b>	CHECKED <b>Jaswinder Gill</b>	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b>	SHEET <b>EE0-0.4</b>
				POST MILE		
DETAILS BY <b>Ed D. Tapalla 3/13</b>	CHECKED <b>Javid Amirazodi</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY <b>Javid Amirazodi</b>	CHECKED <b>Jaswinder Gill</b>			DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-28-13	

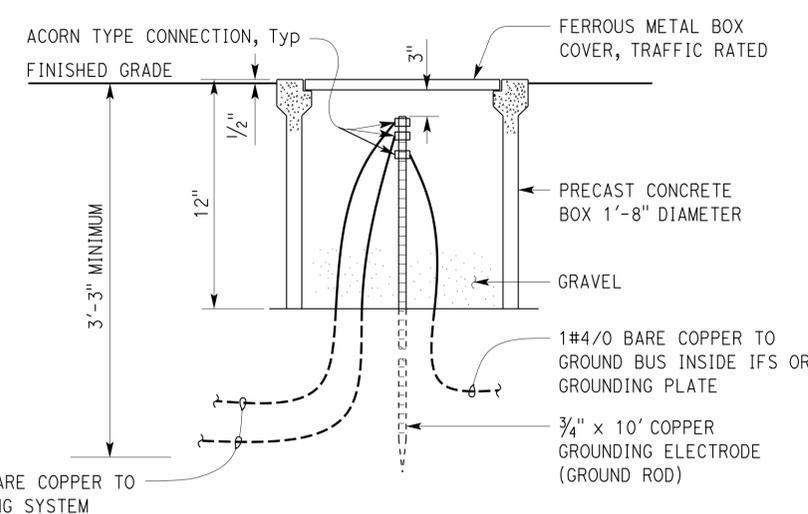
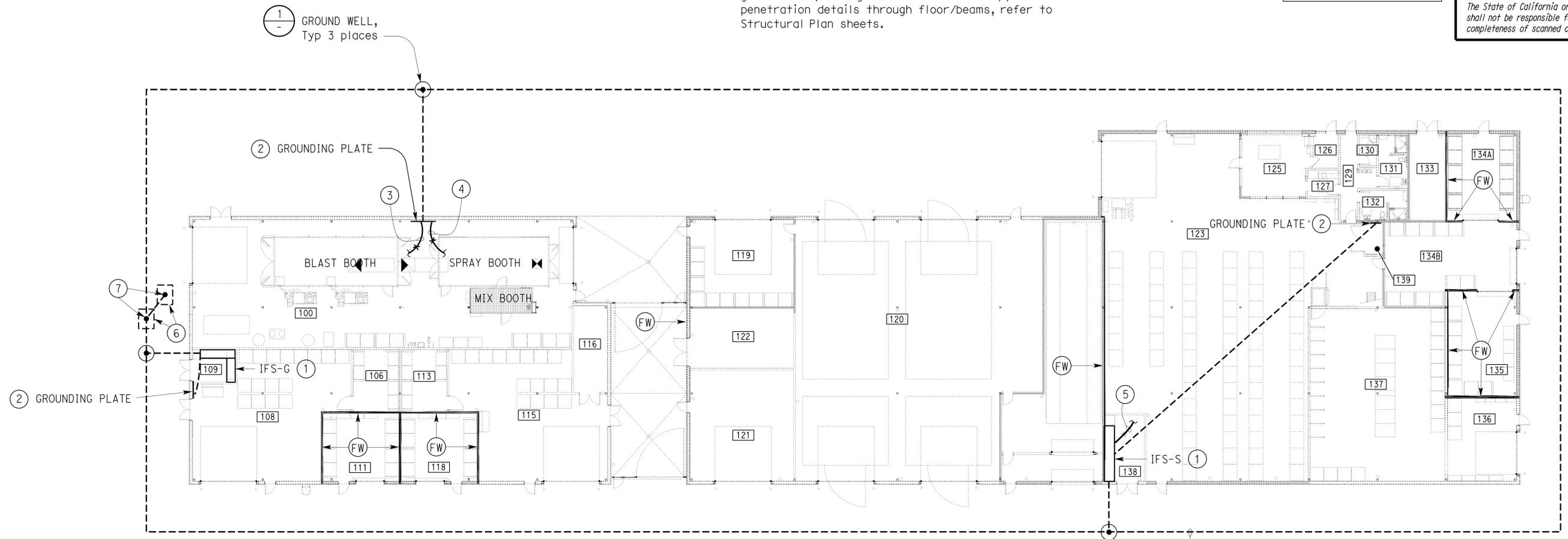
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		293	371
<b>Catalino A. Enriquez</b> REGISTERED ELECTRICAL ENGINEER		02-21-14 DATE			
3-24-14 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					

**GENERAL NOTE:**

Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14



**1 GROUND WELL DETAIL**  
NO SCALE



**PLAN**  
1/16" = 1'-0"

1#4/0 BARE COPPER GROUNDING CONDUCTOR. INSTALL CONDUCTOR AT 36 INCHES BELOW FINISHED GRADE AND MINIMUM OF 8 FEET AWAY FROM THE EDGE OF THE BUILDING CONCRETE FOUNDATION, Typ

**NOTES:**

- ① Terminate all #4/0 bare copper grounding conductors at the ground bus inside IFS. For IFS grounding see EE1-9.3
- ② Terminate #4/0 bare copper grounding conductor at the bus bar of grounding plate. For grounding plate detail, see EE1-4.7
- ③ 1#4/0G bare. Bond to structural metal frame and metal pipes of water, air and gas.
- ④ 1#4/0G bare. Bond to metal frame of spray booth, blast booth and mixing booth.
- ⑤ 1" C, PVC, 1#4/0G. Bond to grounding system of photovoltaic inverter.
- ⑥ Existing communication vaults.
- ⑦ Bond 1#4/0G to existing grounding plate inside vault

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>SFOBB WAREHOUSE</b>  GROUNDING PLAN	SHEET <b>EE0-0.5</b> OF
	DETAILS	BY Ed D. Tapalla 3/13			CHECKED Catalino Enriquez		
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy	UNIT: 3597	CONTRACT No.: 014101	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	PROJECT NUMBER & PHASE: 04130001331	3-25-13 7-13 10-28-13 2-21-14		

GENERAL NOTES:

- A. For feeder schedule and panel index, see plan sheet EE0-1.3.
- B. Install all equipment and devices such as low voltage power supply, data and control cables, connectors, mounting devices, brackets, communication and monitoring softwares and any other required equipment for proper operation of Web-Based power monitoring system, without any additional costs to the State. Power connections to power monitoring devices not shown. Install current transformers and potential transformers as required.
- C. High-leg (stinger) must be on B-phase of all 1/2 Volts, 3-phase, 4-wire panelboards.

- D. For power monitoring block diagram, see EE0-1.4.
- E. All distribution circuit breakers must be molded case circuit breakers complete with an adjustable electronic trip unit.
- F. For physical location of all panelboards and IFS's, see plan sheet EE1-1.0.
- G. For IFS-G elevation, see plan EE1-9.1.

NOTES:

- ① Power Monitoring Type 3.
- ② Serial control cables as required.
- ③ 1" C, serial control cables as required to IFS-S. For continuation, see EE0-1.2.
- ④ Meter for future loads.
- ⑤ Panelboard must be equipped with branch circuit power monitoring meter. Meter must monitor circuit 4GB17.
- ⑥ Meter must monitor circuit 4GA15-17-19.
- ⑦ Meter must monitor circuit 2GB13-15-17.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		294	371

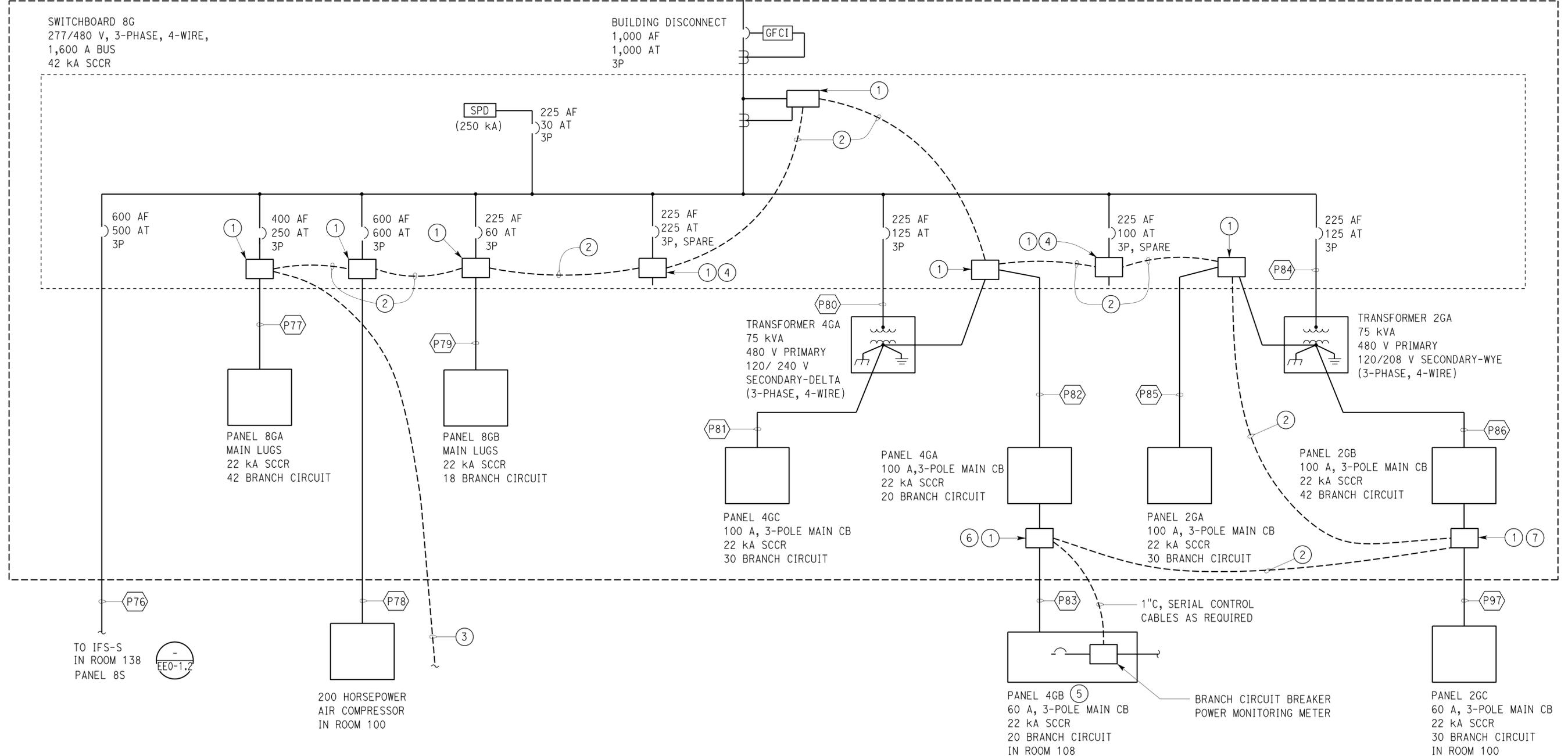
*Javid Amirazodi* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

*Javid Amirazodi*  
 No. E. 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

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IFS-G IN ROOM 109



APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785  
 POST MILE  
**SFOBB WAREHOUSE**  
 IFS-G SINGLE LINE DIAGRAM

SHEET **EE0-1.1** OF

GENERAL NOTES:

- A. For feeder schedule and panel index, see plan sheet EE0-1.3.
- B. Install all equipment and devices such as low voltage power supply, data and control cables, connectors, mounting devices, brackets, communication and monitoring softwares and any other required equipment for proper operation of Web-Based power monitoring system, without any additional costs to the State. Power connections to power monitoring devices not shown. Install current transformers and potential transformers as required.
- C. High-leg (stinger) must be on B-phase of all 1/2 Volts, 3-phase, 4-wire panelboards.

D. For power monitoring block diagram, see plan sheet EE0-1.4.

- E. All distribution circuit breakers must be molded case circuit breakers complete with an adjustable electronic trip unit.
- F. For physical location of all panelboards and IFS's, see plan sheet EE1-1.0.
- G. For IFS-S elevation, see plan sheet EE1-9.2.

NOTES:

- ① Power Monitoring Type 3.
- ② Serial control cables as required.
- ③ 1" C, serial control cables as required to IFS-G. For continuation, see EE0-1.1.
- ④ Serial control cables as required to power monitoring gateway in power monitoring section of IFS-S (Power monitoring section not shown).
- ⑤ Meter for future loads.
- ⑥ Meter must monitor circuit 2SB8-10-12.
- ⑦ Panelboard must be equipped with branch circuit power monitoring meter. Meter must monitor circuit 4SB8.
- ⑧ Meter must monitor circuit 4SA37-39-41.
- ⑨ Meter must monitor circuit 4SA38-40-42.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrid P. Icastano*  
 INGRID P. ICASTANO  
 Approval date: 02-11-14

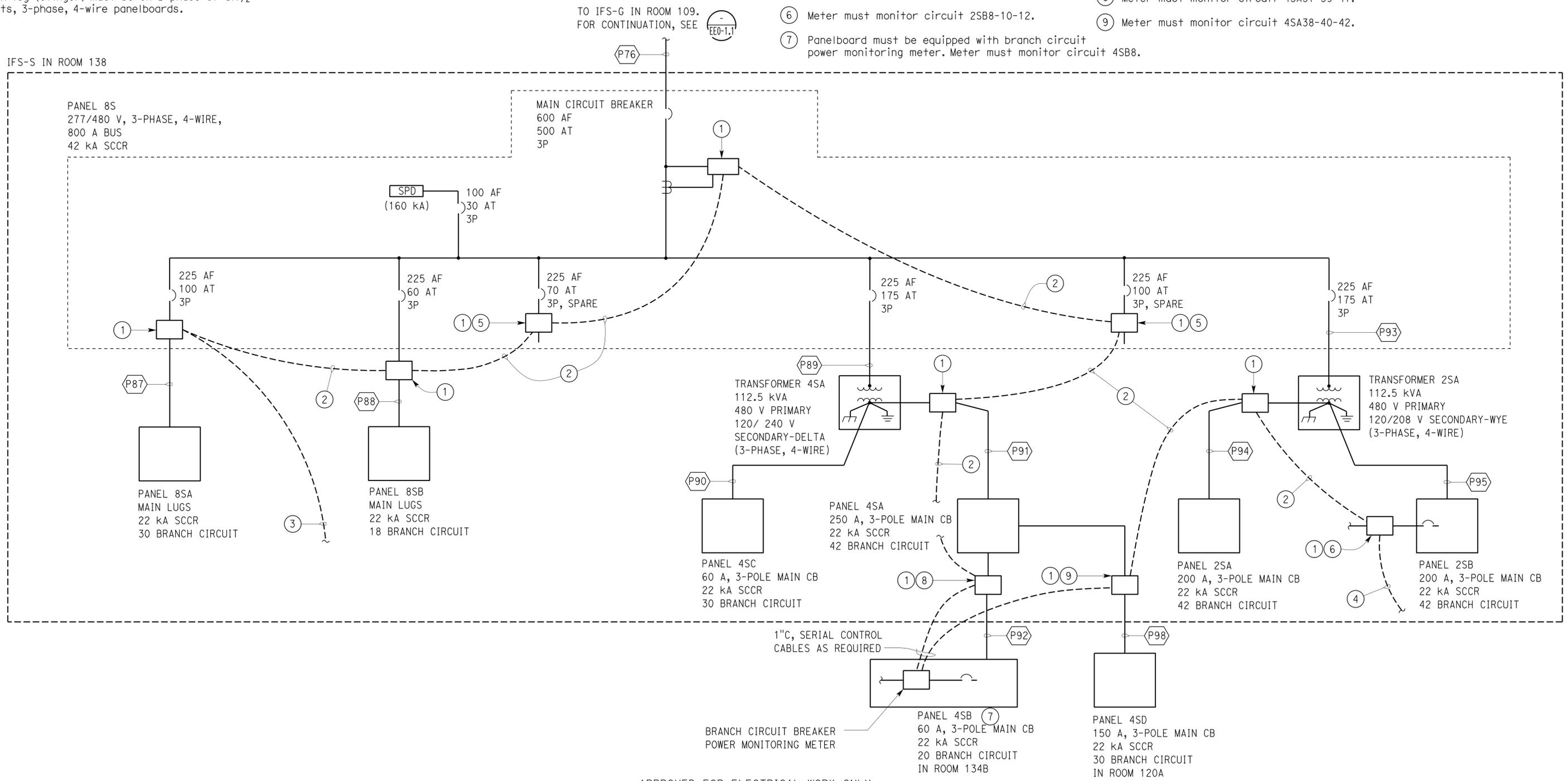
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		295	371

*Javid Amirazodi*  
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14

3-24-14  
 PLANS APPROVAL DATE

*Javid Amirazodi*  
 No. E 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

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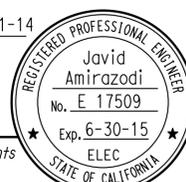
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No.	33M5785	SFOBB WAREHOUSE	SHEET EE0-1.2
POST MILE			
IFS-S SINGLE LINE DIAGRAM			

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrit P. Castano*  
 INGRIT P. CASTANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		296	371
<i>Javid Amirazodi</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
3-24-14 PLANS APPROVAL DATE					
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CONDUITS AND CONDUCTORS/CABLES SCHEDULE						
CONDUIT NUMBER	REFERENCE SHEET	SET OF RUN	CONDUIT SIZE/TYPE	CONDUCTOR/CABLE SIZE	FROM	TO
P75	EE0-1.1	3	4"C, PVC	4#600 kcmil, 1#600 kcmil G	(E) IFS-MSB	IFS-G
P76	EE0-1.1, EE0-1.2, EE1-1.0	2	4"C, PVC	4#350 kcmil, 1#350 kcmil G	SWITCHBOARD 8G	PANEL 8S
P77	EE0-1.1	1	-	4#350 kcmil, 1#350 kcmil G	SWITCHBOARD 8G	PANEL 8GA
P78	EE0-1.1, EE1-1.0	1	4"C, MC	4#500 kcmil, 1#500 kcmil G	SWITCHBOARD 8G	AIR COMPRESSOR
P79	EE0-1.1	1	-	4#1, 1#1G	SWITCHBOARD 8G	PANEL 8GB
P80	EE0-1.1	1	-	3#1/0	SWITCHBOARD 8G	TRANSFORMER 4GA
P81	EE0-1.1	1	-	4#1, 1#1G	TRANSFORMER 4GA	PANEL 4GC
P82	EE0-1.1	1	-	4#1, 1#1G	TRANSFORMER 4GA	PANEL 4GA
P83	EE0-1.1, EE1-1.0	1	1 1/2" C, MC	4#2, 1#2G	PANEL 4GA	PANEL 4GB
P84	EE0-1.1	1	-	3#1/0	SWITCHBOARD 8G	TRANSFORMER 2GA
P85	EE0-1.1	1	-	4#1, 1#1G	TRANSFORMER 2GA	PANEL 2GA
P86	EE0-1.1	1	-	4#1, 1#1G	TRANSFORMER 2GA	PANEL 2GB
P87	EE0-1.2	1	-	4#1, 1#1G	PANEL 8S	PANEL 8SA
P88	EE0-1.2	1	-	4#1, 1#1G	PANEL 8S	PANEL 8SB
P89	EE0-1.2	1	-	3#3/0	PANEL 8S	TRANSFORMER 4SA
P90	EE0-1.2	1	-	4#1, 1#1G	TRANSFORMER 4SA	PANEL 4SC
P91	EE0-1.2	1	-	4#4/0, 1#4/0G	TRANSFORMER 4SA	PANEL 4SA
P92	EE0-1.2, EE1-1.0	1	1 1/2" C, MC	4#2, 1#2G	PANEL 4SA	PANEL 4SB
P93	EE0-1.2	1	-	3#3/0	PANEL 8S	TRANSFORMER 2SA
P94	EE0-1.2	1	-	4#4/0, 1#4/0G	TRANSFORMER 2SA	PANEL 2SA
P95	EE0-1.2	1	-	4#4/0, 1#4/0G	TRANSFORMER 2SA	PANEL 2SB
P96	EE1-1.0	1	4"C, PVC	PT	IFS-S	IFS-G
P97	EE0-1.1, EE1-1.0	1	1 1/2"C, MC	4#2, 1#2G	PANEL 2GB	PANEL 2GC
P98	EE0-1.2, EE1-1.0	1	2 1/2"C, MC	4#2/0, 1#2/0G	PANEL 4SA	PANEL 4SD

EQUIPMENT	PANEL SCHEDULE SHEET NUMBER
SWITCHBOARD 8G	EE1-10.1
PANEL 8GA	EE1-10.1
PANEL 8GB	EE1-10.2
PANEL 4GA	EE1-10.2
PANEL 4GB	EE1-10.2
PANEL 4GC	EE1-10.2
PANEL 2GA	EE1-10.3
PANEL 2GB	EE1-10.3
PANEL 2GC	EE1-10.3
PANEL 8S	EE1-10.4
PANEL 8SA	EE1-10.4
PANEL 8SB	EE1-10.5
PANEL 4SA	EE1-10.5
PANEL 4SB	EE1-10.5
PANEL 4SD	EE1-10.5
PANEL 4SC	EE1-10.6
PANEL 2SA	EE1-10.6
PANEL 2SB	EE1-10.6

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Javid Amirazodi	CHECKED	Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	33M5785	<b>SFOBB WAREHOUSE</b> FEEDER SCHEDULE AND PANEL INDEX	SHEET <b>EE0-1.3</b>			
	DETAILS	BY	Ed D. Tapalla 3/13	CHECKED			Javid Amirazodi	POST MILE					
	QUANTITIES	BY	Javid Amirazodi	CHECKED			Jaswinder Gill						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
TAEWW Imperial - CCSC Rev. 01/13 P:\dist_04\0413000133_sfoobb_maint_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY)\ee0_1.3.dgn													

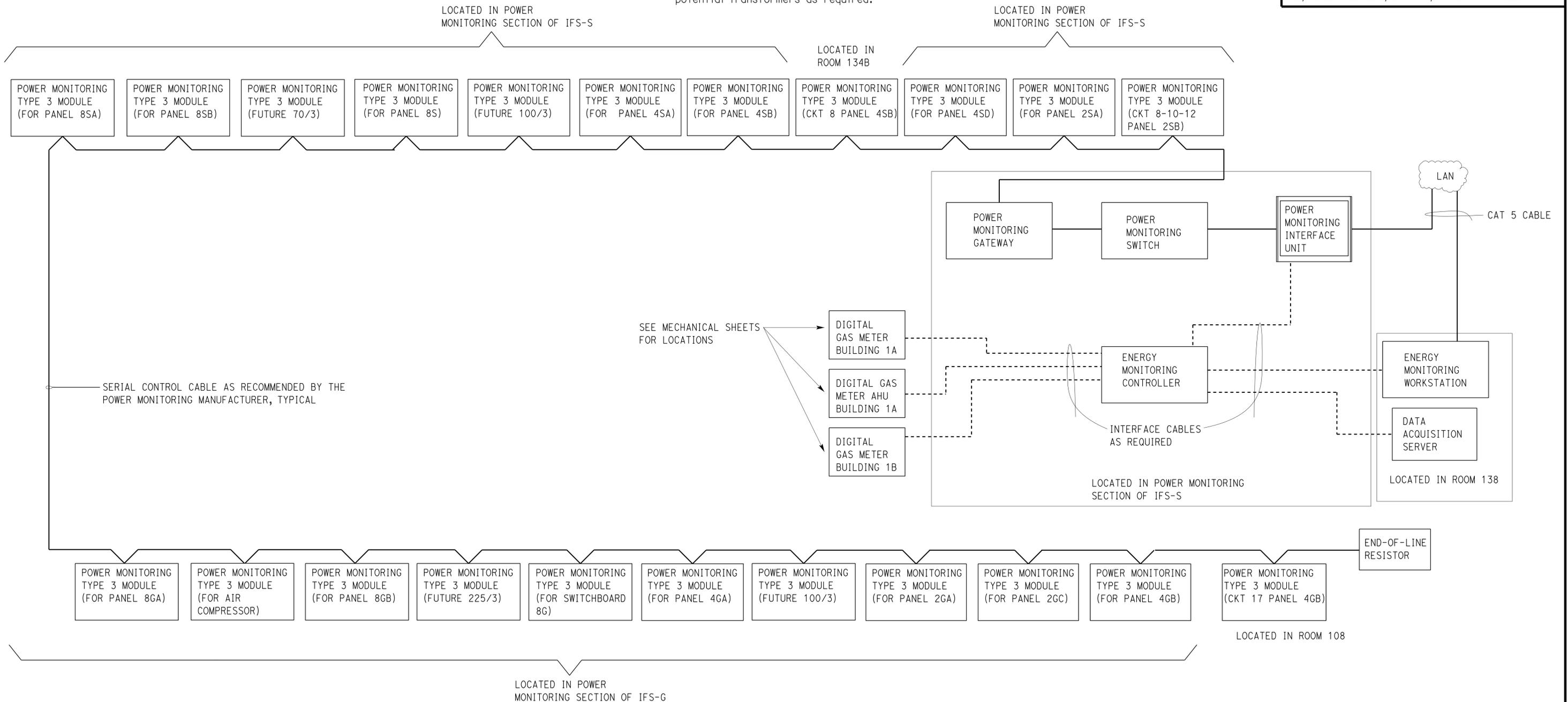
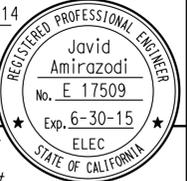
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GENERAL NOTE:

- A. Install all equipment and devices such as low voltage power supply, data and control cables, connectors, mounting devices, brackets, communication and monitoring softwares and any other required equipment for proper operation of Web-Based power monitoring system, without any additional costs to the State. Power connections to power monitoring devices not shown. Install current transformers and potential transformers as required.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		297	371
<i>Javid Amirazodi</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE	3-24-14 PLANS APPROVAL DATE	
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**POWER MONITORING BLOCK DIAGRAM**

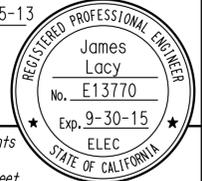
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Javid Amirazodi CHECKED: Jaswinder Gill DETAILS BY: Ed D. Tapalla 3/13 CHECKED: Javid Amirazodi QUANTITIES BY: Javid Amirazodi CHECKED: Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE POWER MONITORING BLOCK DIAGRAM	SHEET EE0-1.4 OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY): 10-28-13, 12-16-13, 2-21-14			SHEET OF
	TAEWW Imperial - CCSC Rev. 01/13 P:\dist_04\0413000133_sfobb_maint_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY)\ee0_1.4.dgn					

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 INGRID P. CASTANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		298	371
Reviewed by: <i>James R. Lacy</i>			10-25-13		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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ASSIGNED METER NUMBER	METERED LOAD	METER LOCATION	DISPLAY UNITS
1	PANEL 8SA	IFS-S	KWH
2	PANEL 8SB	IFS-S	KWH
3	FUTURE 70/3 CB	IFS-S	KWH
4	PANEL 8S	IFS-S	KWH
5	FUTURE 100/3 CB	IFS-S	KWH
6	PANEL 4SA	IFS-S	KWH
7	PANEL 4SB	IFS-S	KWH
8	CIRCUIT 8 IN PANEL 4SB	ROOM 134B	KWH
9	PANEL 4SD	IFS-S	KWH
10	PANEL 2SA	IFS-S	KWH
11	CIRCUIT 8-10-12 IN PANEL 4SB	ROOM 134B	KWH
12	PANEL 8GA	IFS-G	KWH
13	AIR COMPRESSOR	IFS-G	KWH
14	PANEL 8GB	IFS-G	KWH
15	FUTURE 225/3 CB	IFS-G	KWH
16	SWITCHBOARD 8G	IFS-G	KWH
17	PANEL 4GA	IFS-G	KWH
18	FUTURE 100/3 CB	IFS-G	KWH
19	PANEL 2GA	IFS-G	KWH
20	PANEL 2GC	IFS-G	KWH
21	PANEL 4GB	IFS-G	KWH
22	CIRCUIT 17 IN PANEL 4GB	ROOM 108	KWH
23	DIGITAL GAS METER BLD 1A	OUTSIDE ROOM108	THERMS ①
24	DIGITAL GAS METER BLD 1B	OUTSIDE ROOM121	THERMS ①
25	DIGITAL GAS METER AHU	ROOM100	THERMS ①
26	PV SYSTEM PRODUCTION	ROOM138	KWH ②

**METER NUMBERS FOR MEASURED LOADS ⑥**

VIRTUAL METER NUMBER	VIRTUAL METER VALUE CALCULATED BY ENERGY MONITORING WORKSTATION ③	DISPLAY UNITS	CALCULATION VALUES (M# = METER # VALUE) ③
30	FACILITY NON-PROCESS GAS LOAD	THERMS	M23 + M24 - M25
31	FACILITY LIGHTING POWER CONSUMPTION	KWH	M2 + M8 + M14 + M22
32	FACILITY HVAC (ELEC) POWER CONSUMPTION	KWH	M6 - M7 + M17 - M21
33	FACILITY PROCESS (ELEC) POWER CONSUMPTION	KWH	M7 + M9 + M12 + M13 + M20 + M21
34	FACILITY NON - PROCESS (ELEC) POWER CONSUMPTION	KWH	M16 - M33
40	NET ZERO ENERGY	KBTU	M34 + M30 - M26 ④ ⑤

**VIRTUAL DISPLAY LOADS ③ ⑥**

NOTES:

- ① Meter signal converted at Energy Monitoring Workstation.
- ② Data Acquisition Server of the Photovoltaic System creates the photovoltaic power production values which are communicated to the Energy Monitoring Workstation.
- ③ Virtual load and values are to be generated by the Energy Monitoring software by applying the equations as shown in each row.
- ④ Convert units as required.
- ⑤ Positive number means non-process loads exceed PV production. Negative number means the photovoltaic system is producing more energy than non-process loads are using (and building is zero Net Energy).
- ⑥ Convert all assigned meters and virtual meter units as follows. kWH units converted to KBTU and THERMS, THERMS converted to kWH and KBTU.

ENERGY MONITORING DASHBOARD REQUIREMENTS:

Energy monitoring dashboard display must meet all requirement of plans and specification. After Energy monitoring dashboard submittal is approved screen views must be submitted for approval. Screen views must meet or exceed the following requirements:

- 1) Assigned meters 1 thru 26 must be shown in groups of 4 on screen views as indicated here.
- 2) Virtual meters must be shown one per screen view along with the meters used to calculate that virtual meter.
- 3) For each meter provide a button (or buttons) that when pressed must allow that meter units (and value) to be changed to kWH, KBTU or THERMS.
- 4) For each meter provide a button that when pressed will show the power cost based on facility utility rates and time of day, etc.
- 5) For each virtual meter provide a button that when pressed must display the equation used to calculate that virtual meter. Or the equation could be displayed on the screen all the time.
- 6) Screen view order must be as follow:
  - Screen view 1 - Virtual meter 40 and associated meters.
  - Screen view 2 - Virtual meter 34 and associated meters.
  - Screen view 3 - Virtual meter 30 and associated meters.
  - Screen view 4 - Virtual meter 33 and associated meters.
  - Screen view 5 - Virtual meter 31 and associated meters.
  - Screen view 6 - Virtual meter 32 and associated meters.
  - Screen view 7 - Assigned meters 26 thru 23.
  - Screen view 8 - Assigned meters 22 thru 19.
  - Screen view 9 - Assigned meters 18 thru 15.
  - Screen view 10 - Assigned meters 14 thru 11.
  - Screen view 11 - Assigned meters 10 thru 7.
  - Screen view 12 - Assigned meters 6 thru 3.
  - Screen view 13 - Assigned meters 2 and 1.
- 7) Each screen view must have two arrows (to move forward or back) to other screens views and an empty box to enter a specific screen view number.
- 8) Each meter displayed must have its meter name and meter number shown.
- 9) For additional screen view requirements see specifications.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY James Lacy	CHECKED J. Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>SFOBB WAREHOUSE</b> ENERGY MONITORING DASHBOARD DETAILS	SHEET				
	DETAILS	BY Dali Zhou			CHECKED James Lacy		33M5785	EARLIER REVISION DATES 10-28-13   12-23-13   1-10-14   2-21-14	OF <b>EE0-1.5</b>		
	QUANTITIES	BY James Lacy			CHECKED J. Gill		POST MILE				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0	1	2	3	UNIT: 3596 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF

ROOM NAME SCHEDULE

ROOM No.	ROOM NAME	ROOM No.	ROOM NAME	ROOM No.	ROOM NAME
100	BRIDGE PAINT	120A	SAS STORAGE	130	JANITOR
106	EQUIPMENT STORAGE	120B	SAS STORAGE	131	WOMEN
108	OAKLAND TRAVEL CREW STORAGE	120C	SAS VESTIBULE	132	MEN
109	ELECTRICAL	121	SPIDER CAGE STORAGE	133	RECYCLED MATERIAL STORAGE
111	HAZARDOUS MATERIAL STORAGE	122	BRIDGE ELECTRICAL STORAGE	134A	HAZARDOUS MATERIAL STORAGE
113	EQUIPMENT STORAGE	123	TOLL BRIDGE REGIONAL WAREHOUSE STORAGE	134B	BULK PAINT STORAGE
115	SF TRAVEL CREW STORAGE	124	MEZZANINE STORAGE	135	HAZARDOUS MATERIAL STORAGE
116	CANVAS STORAGE	125	OFFICE	136	D. O. STORAGE
117	COVERED BREEZEWAY	126	LOBBY	137	D. O. STORAGE
118	HAZARDOUS MATERIAL STORAGE	127	KITCHENETTE	138	ELECT ROOM
119	TRAVELLER SUPPLY STORAGE	129	HALLWAY	139	IT CLOSET

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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

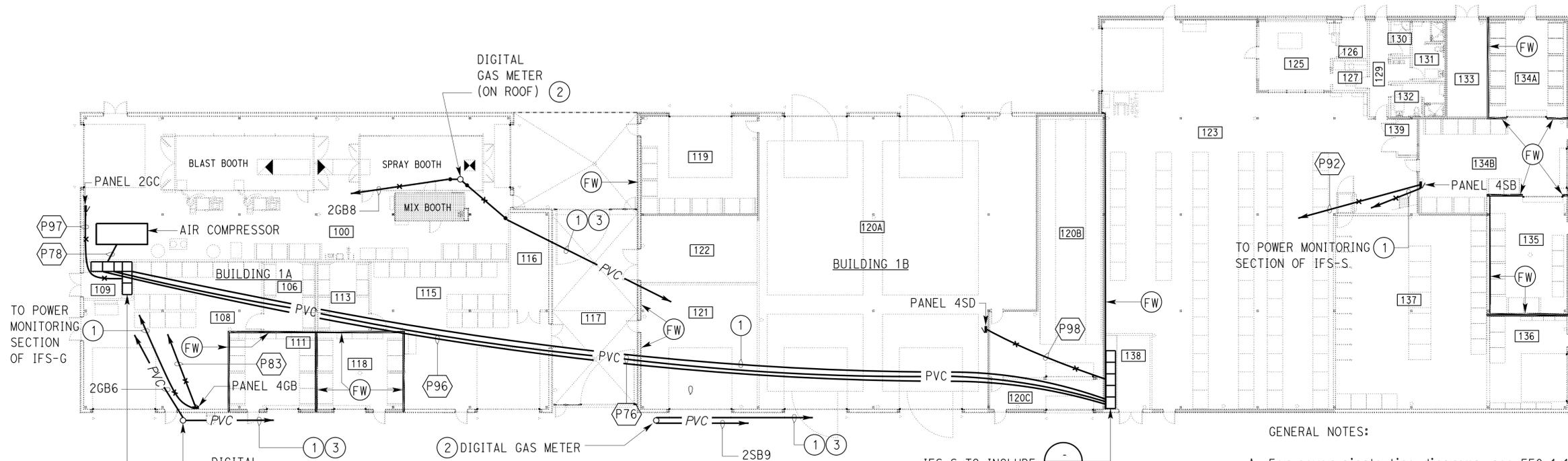
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		299	371

*Javid Amirazodi* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14  
 PLANS APPROVAL DATE

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**REGISTERED PROFESSIONAL ENGINEER**  
 Javid Amirazodi  
 No. E 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA



**PLAN**

1/16" = 1'-0"

- IFS-G TO INCLUDE (EE1-9.1)
- SWITCHBOARD 8G
  - PANEL 8GA
  - PANEL 8GB
  - TRANSFORMER 4GA
  - PANEL 4GA
  - PANEL 4GC
  - TRANSFORMER 2GA
  - PANEL 2GA
  - PANEL 2GB
  - LIGHTING NETWORK PANEL 1A
  - BUILDING DISCONNECT
  - POWER MONITORING DEVICES
  - SURGE PROTECTIVE DEVICES

- NOTE:
- ① 1" C, serial control cables as required for power monitoring system.
  - ② See Mechanical sheets for more information.
  - ③ To Energy Monitoring Controller (in IFS-S) inside room 138.

- IFS-S TO INCLUDE (EE1-9.2)
- PANEL 8S
  - PANEL 8SA
  - PANEL 8SB
  - TRANSFORMER 4SA
  - PANEL 4SA
  - PANEL 4SC
  - TRANSFORMER 2SA
  - PANEL 2SA
  - PANEL 2SB
  - LIGHTING NETWORK PANEL 1B
  - POWER MONITORING DEVICES
  - SURGE PROTECTIVE DEVICES
  - ENERGY MONITORING CONTROLLER

GENERAL NOTES:

- A. For power single line diagrams, see EE0-1.1 and EE0-1.2.
- B. For IFS-S and IFS-G details, see EE1-9.1 and EE1-9.2 respectively.
- C. For IFS grounding details, see EE1-9.3.
- D. For panel schedules, see EE1-10.1 to 1-10.6.
- E. For power monitoring block diagram, see EE0-1.4.
- F. For feeder conduit and conductor sizes, see EE0-1.3.
- G. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- H. Provide appropriate lugs as required to accommodate sets of run and/or oversized conductors.
- I. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Javid Amirazodi	CHECKED: Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 33M5785	<b>SFOBB WAREHOUSE</b> POWER PANEL KEY PLAN	SHEET 1 OF 1
DETAILS BY: Ed D. Tapalla 3/13	CHECKED: Javid Amirazodi		POST MILE		
QUANTITIES BY: Javid Amirazodi	CHECKED: Jaswinder Gill		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		

UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

3-25-13 10-28-13 12-19-13 2-21-14

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEMWW Imperial - CCSC Rev. 01/13

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GENERAL NOTES:

- A. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- D. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- E. All conduit system above blast booth, spray booth and mix booth must be rigid steel type.

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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		300	371

*Javid Amirazodi* 02-21-14  
 REGISTERED ELECTRICAL ENGINEER DATE

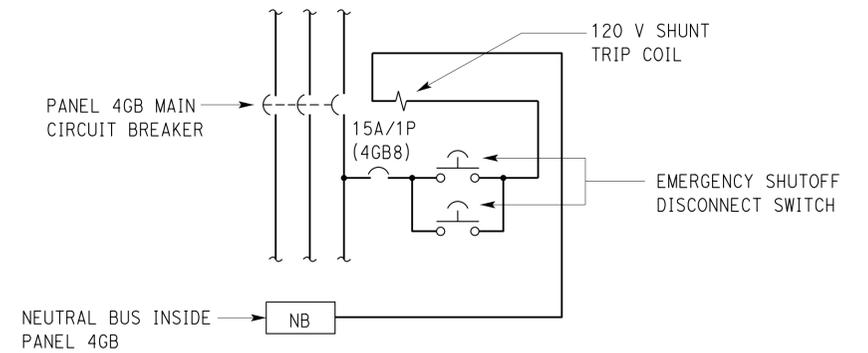
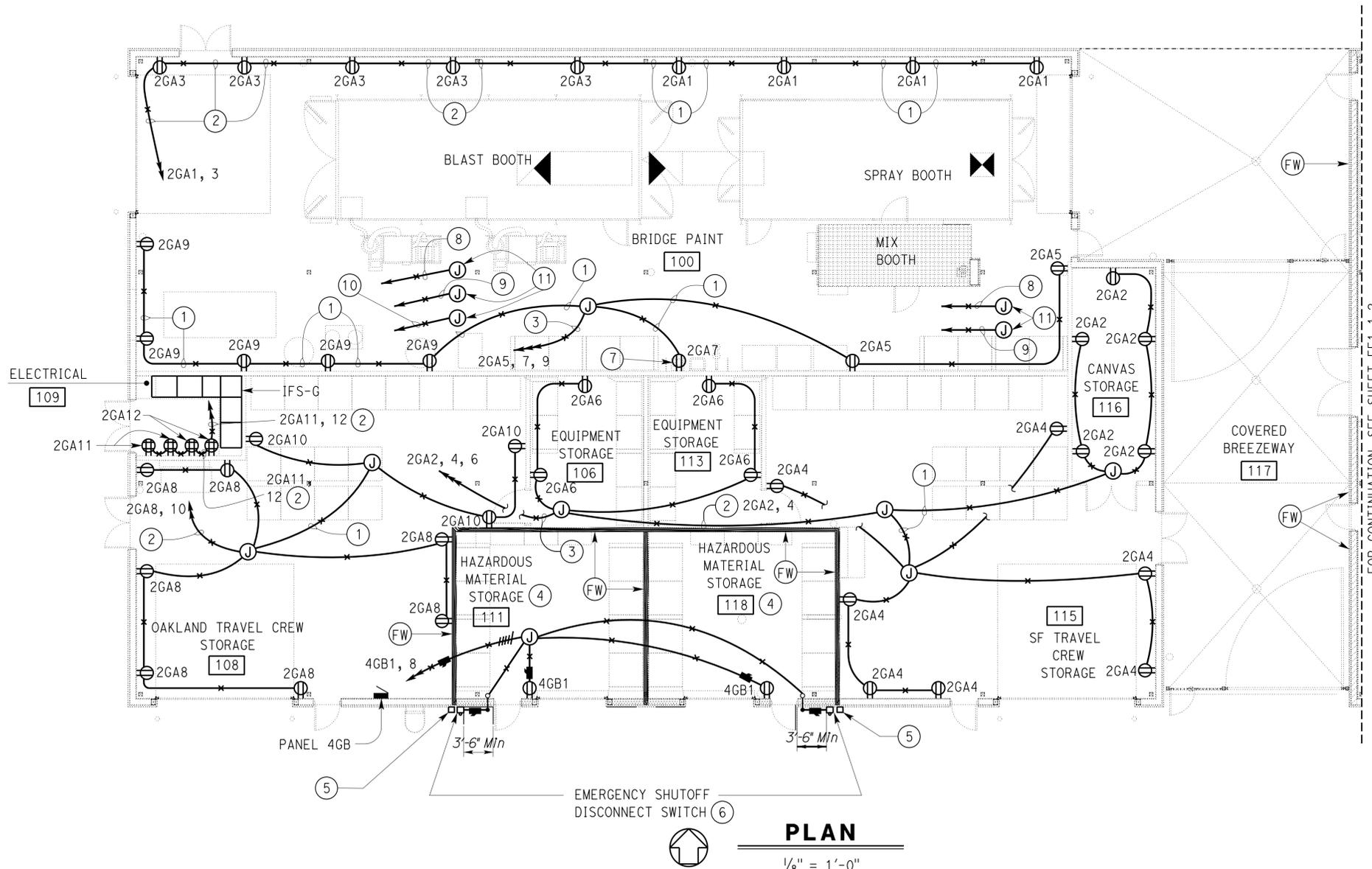
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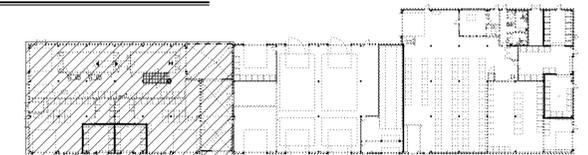
REGISTERED PROFESSIONAL ENGINEER  
 Javid Amirazodi  
 No. E 17509  
 Exp. 6-30-15  
 ELEC  
 STATE OF CALIFORNIA

NOTES:

- ① 1/2"C, 2#10, 1#10G.
- ② 3/4"C, 4#10, 1#10G.
- ③ 1"C, 6#10, 1#10G.
- ④ Class 1, Division 1 rated area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- ⑤ Emergency warning plate, install at 3'-8" above finished floor adjacent to emergency shutoff disconnect switch. Inscription must read: "DURING EMERGENCY, TO TURN OFF ELECTRICAL POWER TO HAZARDOUS MATERIAL ROOMS 111 AND 118, PRESS THIS EMERGENCY SHUTOFF DISCONNECT SWITCH".
- ⑥ For Emergency Shutoff Wiring Diagram, see details on this sheet.
- ⑦ GFCI type receptacle.
- ⑧ 2"C, PT to Panel 8GA.
- ⑨ 2"C, PT to Panel 2GB.
- ⑩ 2"C, PT to Panel 4GC.
- ⑪ 8" (W) X 8" (H) X 6" (D) junction box.



**EMERGENCY SHUTOFF WIRING DIAGRAM**



**KEY PLAN**

**PLAN**

1/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

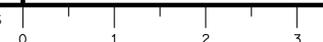
DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785  
 POST MILE

SFOBB WAREHOUSE  
 BUILDING 1A  
 POWER PLAN 1

SHEET EE1-1.1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3597 CONTRACT No.: 014101  
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
3-27-13 10-28-13 2-21-14		