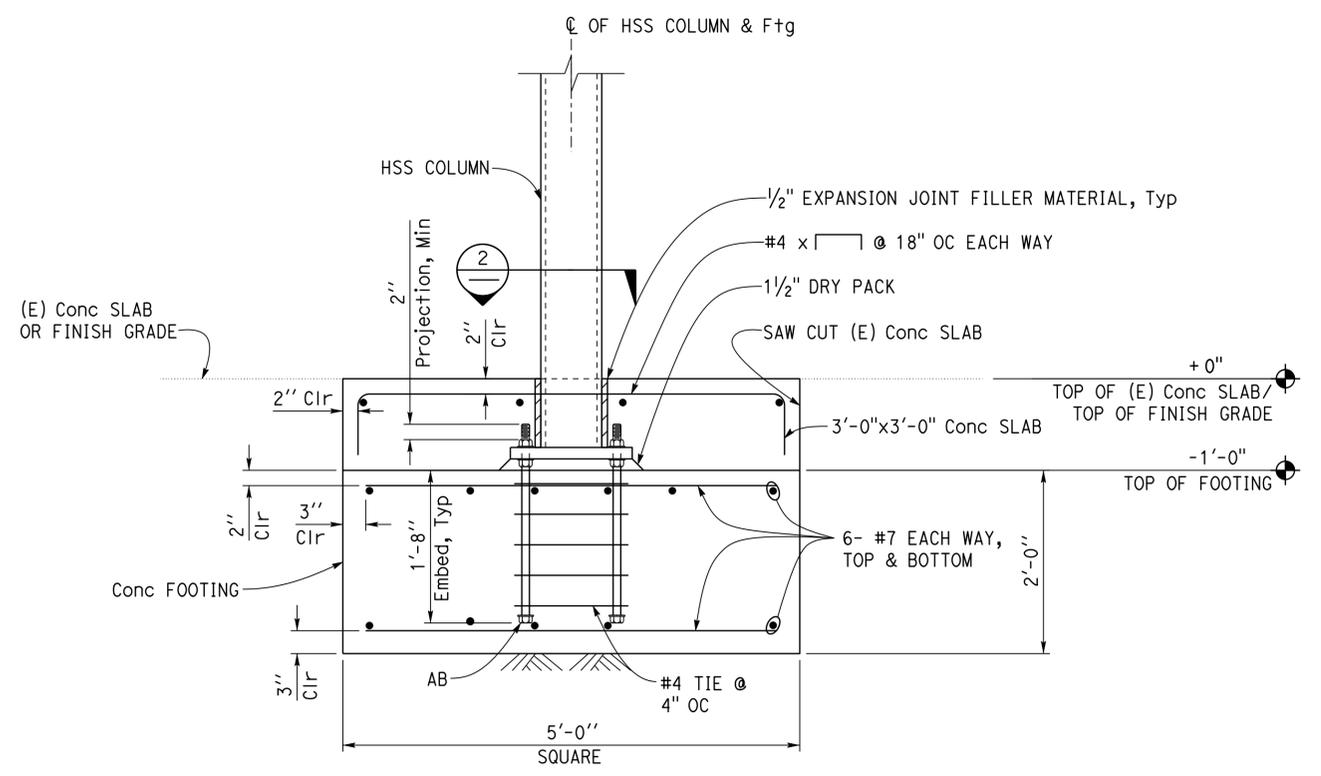


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	201	263

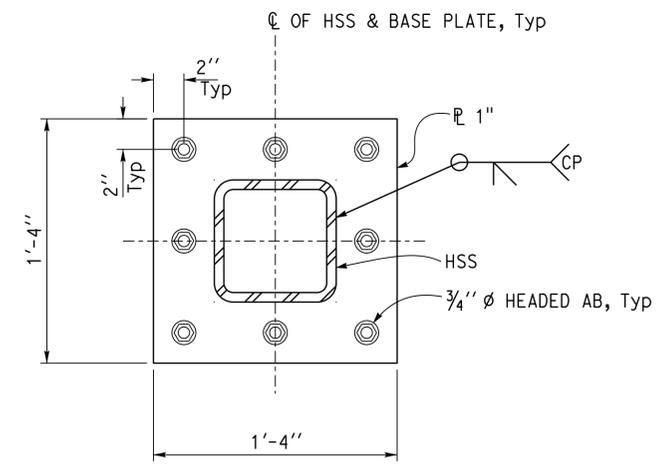
  
 REGISTERED CIVIL ENGINEER      DATE 6-13-16  
 PLANS APPROVAL DATE 6-13-16  
 No. 60406  
 Exp. 6-30-18  
 CIVIL  
 STATE OF CALIFORNIA

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**APPROVED FIRE AND PANIC ONLY**  
 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:   
 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



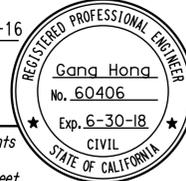
**1 FOOTING DETAIL**  
1" = 1'-0"



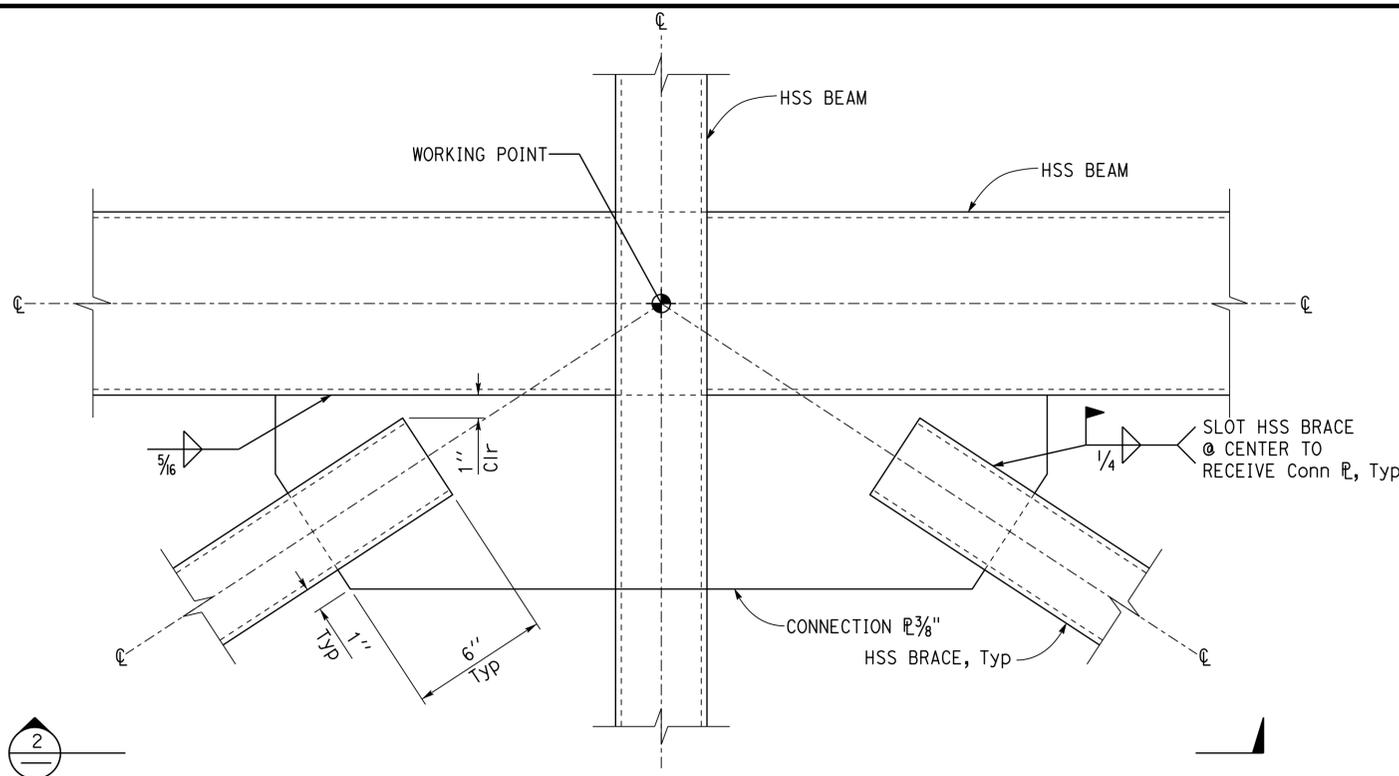
**2 BASE PLATE**  
2" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Bill Rocha	BRIDGE No. 54000R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET ST3-4
	DETAILS	BY	Daniel Harakh	CHECKED			
QUANTITIES	BY		CHECKED		POST MILE R107.3	NORTHBOUND CANOPY	FOUNDATION DETAILS
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		REVISION DATES (PRELIMINARY STAGE ONLY) 12-16-15 01-14-16 01-22-16 06-07-16
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3581 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES
TAEWW Imperial - CCSC Rev. 02/13							

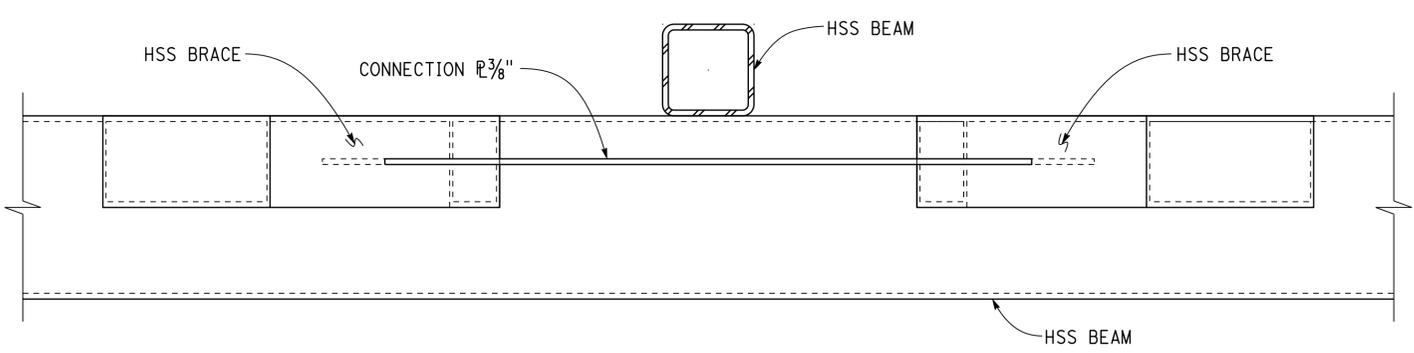
30-AUG-2016 14:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	202	263
 REGISTERED CIVIL ENGINEER			6-13-16	DATE	
6-13-16 PLANS APPROVAL DATE					
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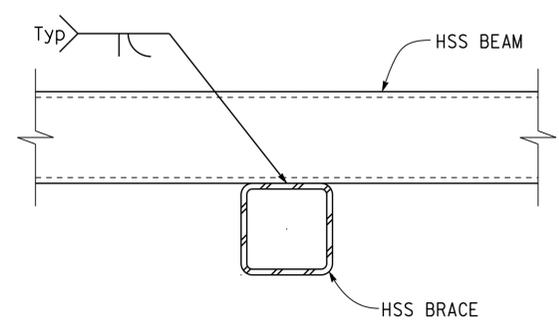
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 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



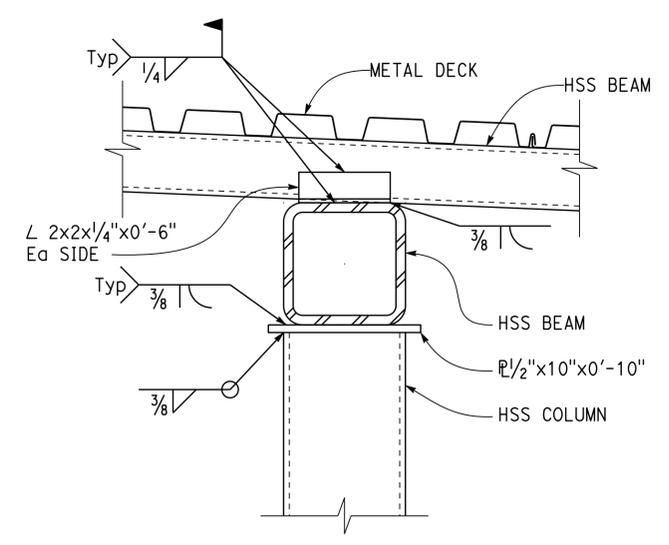
**1 HSS BEAM TO HSS BRACE PLAN VIEW**  
 3" = 1'-0"



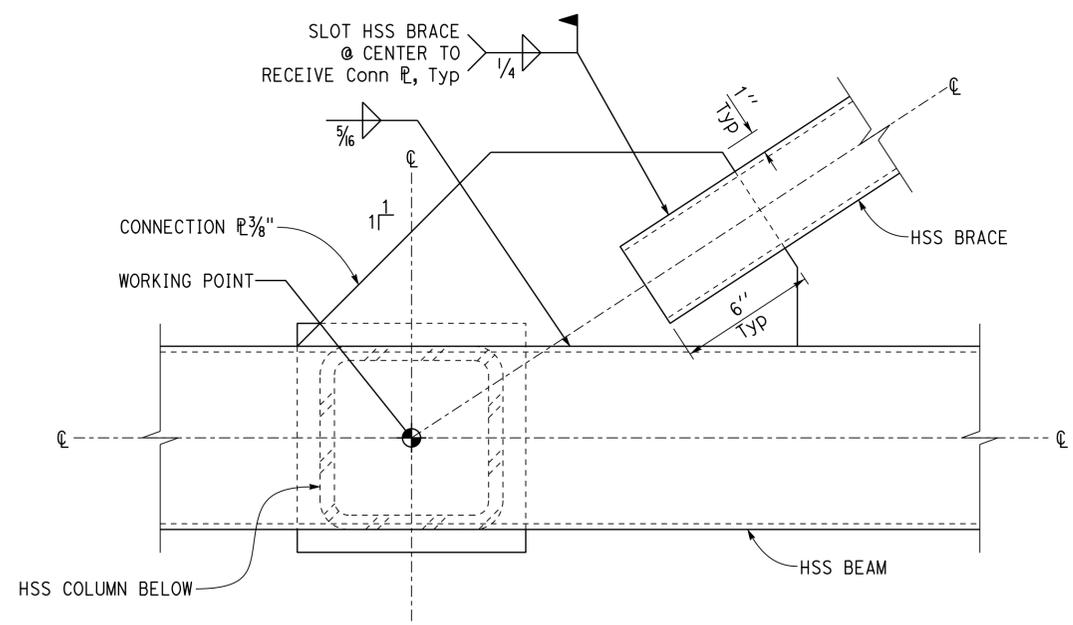
**2 HSS BEAM TO HSS BRACE SECTION**  
 3" = 1'-0"



**3 HSS BEAM TO HSS BRACE DETAIL**  
 3" = 1'-0"



**4 HSS BEAM TO BEAM DETAIL**  
 2" = 1'-0"



**5 HSS BEAM TO HSS BRACE PLAN VIEW**  
 3" = 1'-0"

DESIGN BY: Gang Hong CHECKED: Bill Rocha DETAILS BY: Daniel Harakh CHECKED: Gang Hong QUANTITIES BY: CHECKED:	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 54000R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> NORTHBOUND CANOPY ROOF FRAMING DETAILS	SHEET <b>ST3-5</b> OF
			POST MILE R107.3		
			UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expd\te\st03_05.dgn		

# PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2013 California Building Code (2012 IBC).

# DETAIL NOTES

### LOADS

**SEISMIC:** Risk Category = II  
 Importance Factor I = 1.0  
 Site Soil Class = C  
 $S_S = 1.0$        $S_{DS} = 0.667$   
 $S_I = 0.35$        $S_{DI} = 0.339$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**  
 Cantilevered Column System  
North - South  
 Ordinary steel moment frames.  
 $R = 1.25$      $C_S = 0.534$   
 Cantilevered Column System  
East - West  
 Ordinary steel moment frames.  
 $R = 1.25$      $C_S = 0.534$   
**WIND:** Basic Wind Speed = 110 mph      I = 1.0  
 $\lambda = 1.21$        $P_{G30} = \pm 11.5$   
 $K_{zt} = 1.0$   
 Wind Pressure on Components and Cladding = 29.9 psf  
**LIVE LOAD:** Roof = 20 psf

### MATERIALS

**REINFORCED CONCRETE:** (Ultimate Strength Design):  
 $f'_c = 4,000$  psi  
 $f_y = 60,000$  psi  
**REINFORCED CONCRETE MASONRY UNITS:**  
 (Allowable Stress Design):  
 $f'_m = 1,500$  psi  
 $f_y = 60,000$  psi  
 INSPECTION LEVEL 1  
**STRUCTURAL STEEL:** (Allowable Strength Design):  
 Channels, Angles & Misc. Shapes     $F_y = 36$  ksi  
 Plates     $F_y = 36$  ksi  
 Hollow Structural Section (HSS)     $F_y = 46$  ksi  
**FOUNDATION:**  
 Foundation Investigation Report dated: Nov 18, 2015  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf  
 For Soil Classification, see Log of Test Boring Sheets.

- For Concrete see: "Concrete Standard" sheet.
- For Masonry see: "Concrete Masonry Unit Details" sheet.
- All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers must be helical spring lock washers.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	203	263

06-13-16  
 REGISTERED CIVIL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE

*Gang Hong*  
 REGISTERED CIVIL ENGINEER  
 No. 60406  
 Exp. 6-30-18  
 CIVIL  
 STATE OF CALIFORNIA

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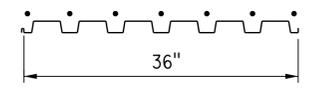
OFFICE OF THE STATE FIRE MARSHAL  
 APPROVED FIRE AND PANIC ONLY  
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 Reviewed by: *Ingris P. Icasiano*  
 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

### METAL DECK MINIMUM SECTION PROPERTIES

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Metal Decking	1 1/2" x 16 Ga	0.377 in <sup>4</sup> /ft	0.411 in <sup>3</sup> /ft	0.417 in <sup>3</sup> /ft	38 Ksi

NOTE:  
 Minimum 3 Span Condition

### WELDING SCHEDULE and METAL DECK PROFILE

Metal Deck Profile	1/2" Diameter Puddle Weld			Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	7 - 1/2" $\phi$ - Puddle Welds Per Support	1/2" $\phi$ Puddle Welds @ 12" OC	Side Seam Welds @ 12" OC	2410 lb/ft

### A METAL DECK NOTES

- Deck layout must provide all deck sheets of sufficient length to extend continuously over at least 3 spans.
- Ends of adjoining deck sheets must be centered over supports and abutted or acceptably lapped 2". Abutted sheets require 2 typical welds at each weld location.
- Puddle welds indicated as 1/2" must meet the weld requirements for a full effective 1/2"  $\phi$  fusion area at the face of support member and the burned out portion of the deck must be filled with melted weld rod material to the thickness of the sheet without porosity at the edge of the weld to sheet.
- Side seam welds requires that the side laps are to be clinched first to get contact of laps and that 1 1/2" long welds must engage inner leg and have fusion top and bottom.
- Do Not suspend ceilings, light fixtures and conduits, ducts, piping, or other utilities and utility components from deck.
- See  &  For framing @ opening in the metal deck.

DESIGN	BY	Gang Hong	CHECKED	Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	54000R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET ST6-0	
	DETAILS	BY	Daniel Harakh	CHECKED			Gang Hong	POST MILE			R107.3
	QUANTITIES	BY		CHECKED							

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

UNIT: 3581 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 08-10-13, 06-07-16

TAEWW Imperial - CCSC Rev. 02/13

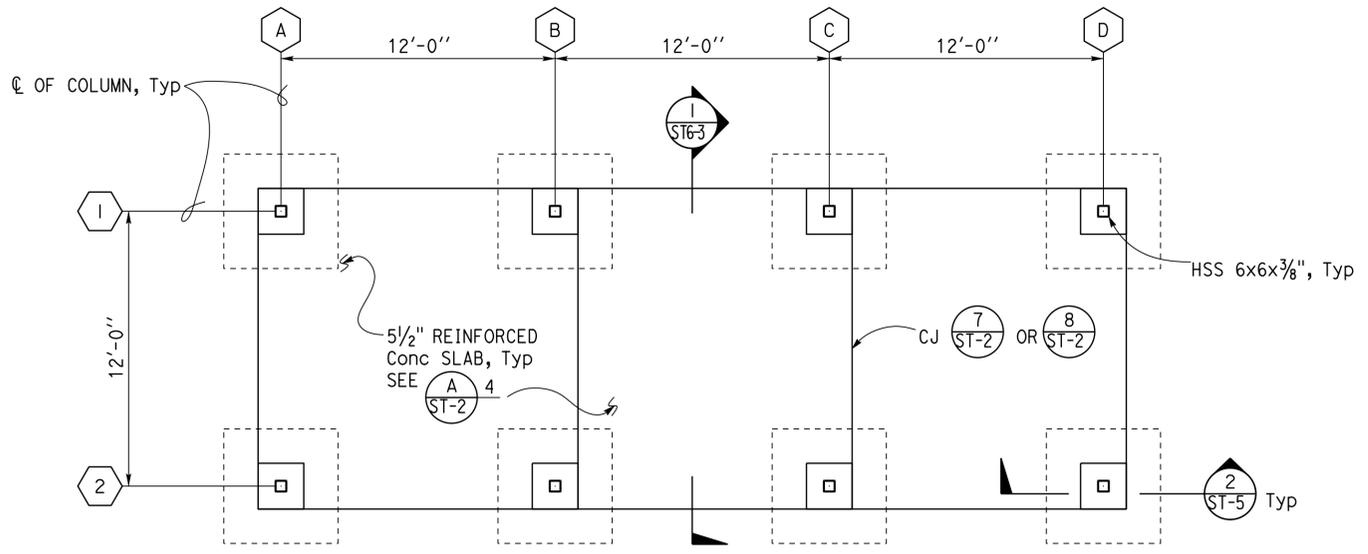
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	204	263

  
 REGISTERED CIVIL ENGINEER  
 DATE 06-13-16  
 PLANS APPROVAL DATE 06-13-16  
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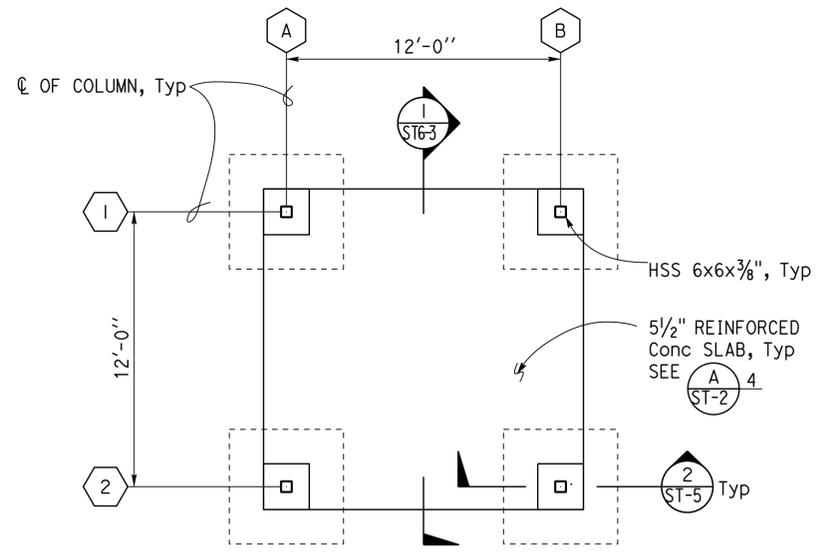


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 Reviewed by:   
 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

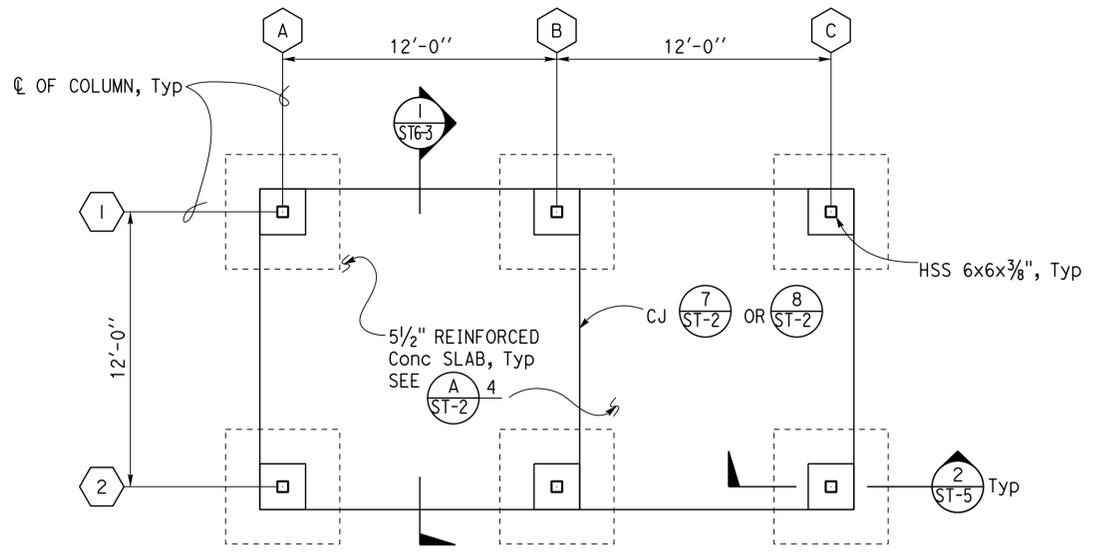


**1 FOUNDATION PLAN**  
 $\frac{1}{4}'' = 1'-0''$   
 Elevation 1751.33= Datum 0'-0''

**A DESIGN NOTE**  
 1. See  $\frac{1}{ST-6}$  For Overexcavation and Recompaction.



**2 FOUNDATION PLAN**  
 $\frac{1}{4}'' = 1'-0''$   
 Elevation 1753.67= Datum 0'-0''



**3 FOUNDATION PLAN**  
 $\frac{1}{4}'' = 1'-0''$   
 Elevation 1752.67= Datum 0'-0''

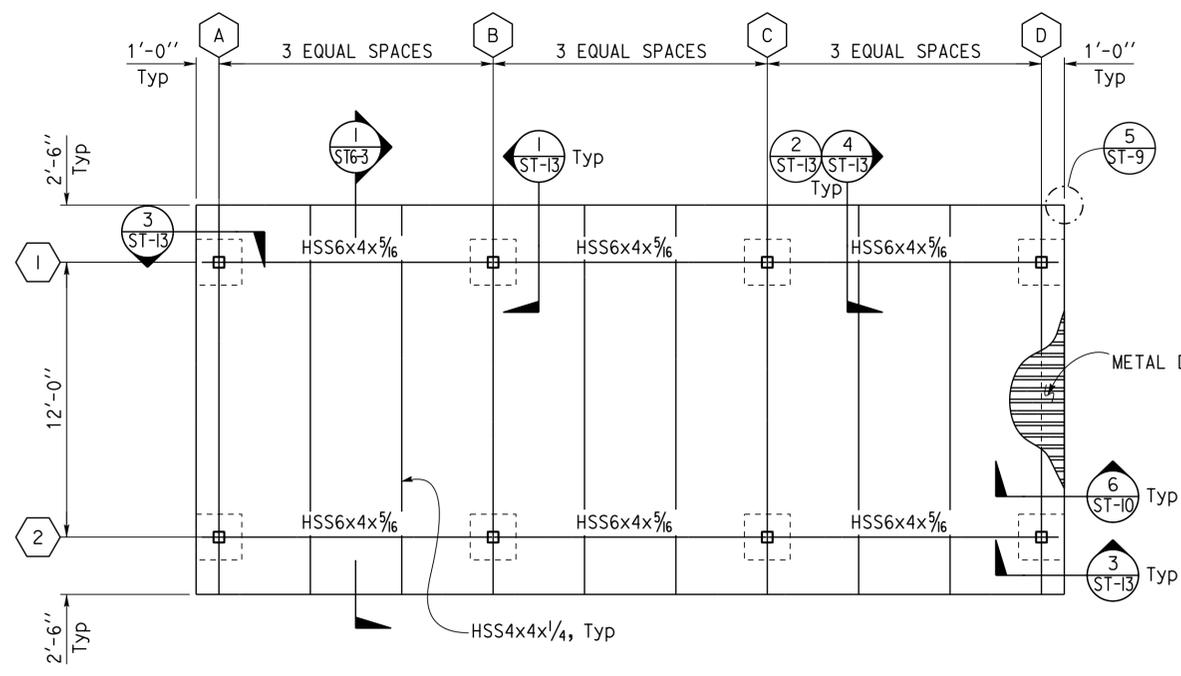
DESIGN BY Gang Hong	CHECKED Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54000R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET ST6-1
				POST MILE R107.3		
DETAILS BY Daniel Harakh	CHECKED Gang Hong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	FOUNDATION PLAN	SHEET OF
QUANTITIES BY	CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY)	08-05-13	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	205	263

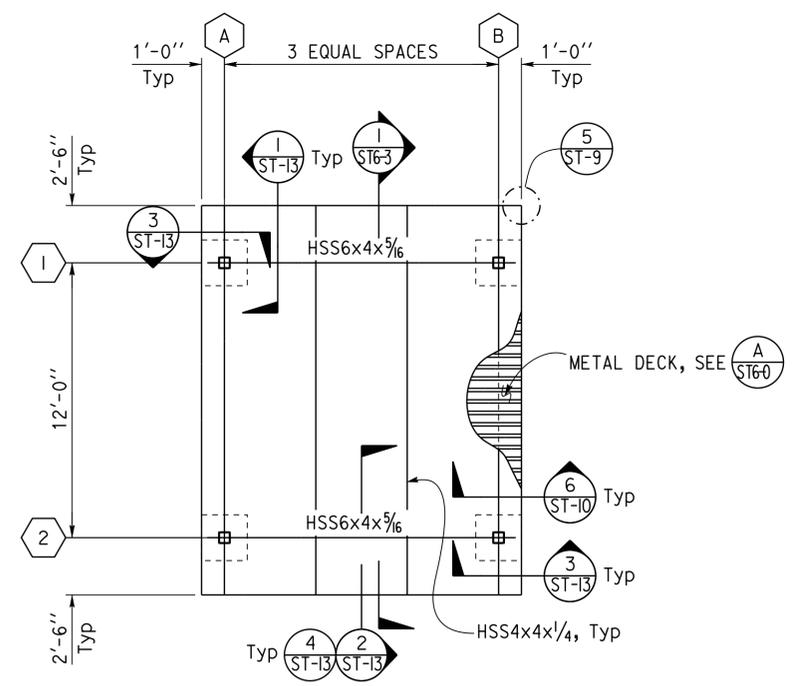
  
 REGISTERED CIVIL ENGINEER  
 DATE 06-13-16  
 PLANS APPROVAL DATE 06-13-16  
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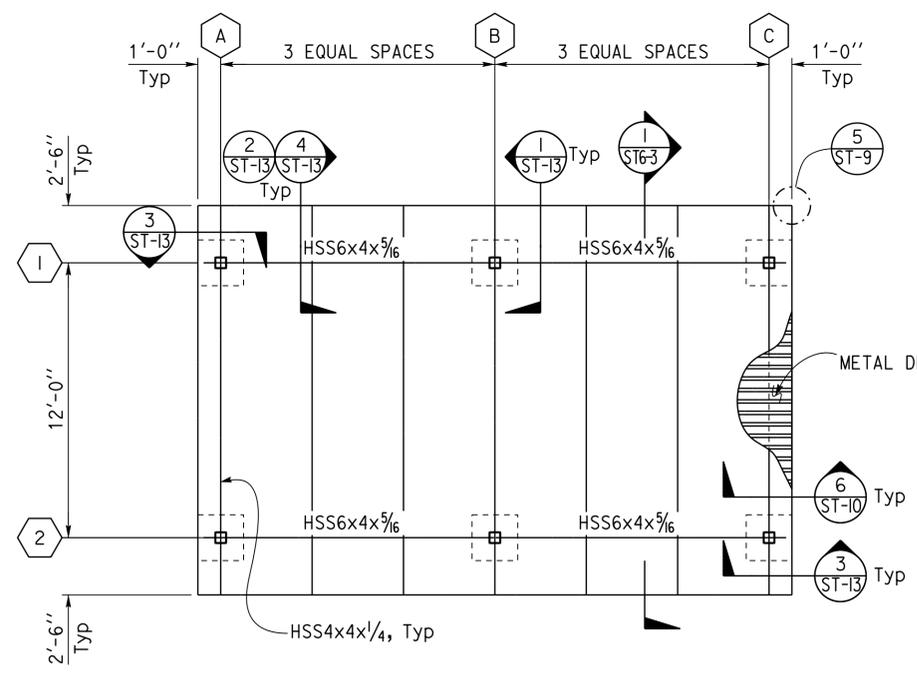
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 Reviewed by:   
 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



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



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



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

DESIGN BY	Gang Hong	CHECKED	Bill Rocha
DETAILS BY	Daniel Harakh	CHECKED	Gang Hong
QUANTITIES BY		CHECKED	

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

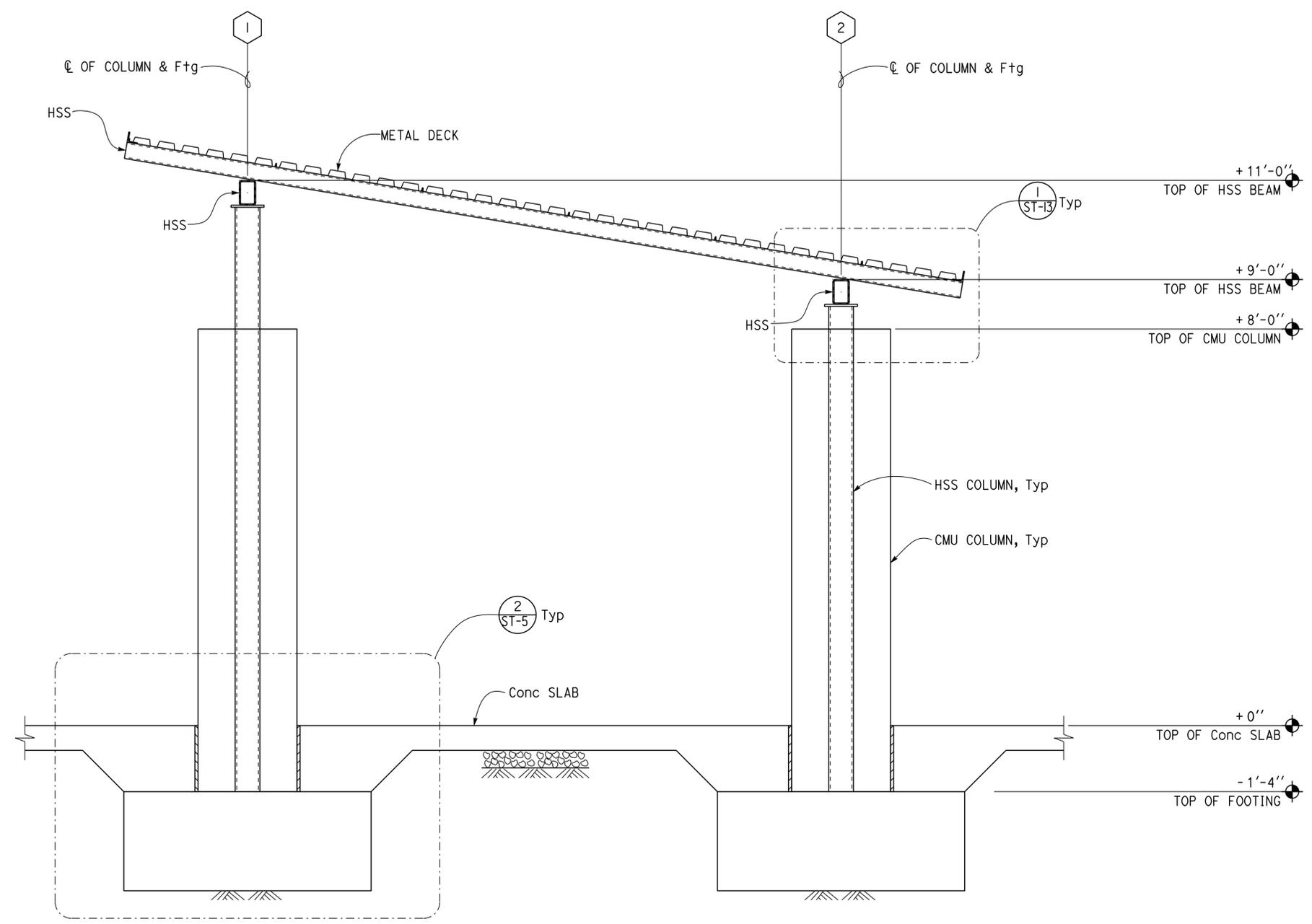
BRIDGE No. 54000R/L  
 POST MILE R107.3

**C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION**  
 SOUTHBOUND PICNIC SHELTERS  
**ROOF FRAMING PLAN**

SHEET **ST6-2** OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	206	263

REGISTERED CIVIL ENGINEER: *Gang Hong*  
 DATE: 06-13-16  
 PLANS APPROVAL DATE: 06-13-16  
 REGISTERED PROFESSIONAL ENGINEER: Gang Hong  
 No. 60406  
 Exp. 6-30-18  
 CIVIL  
 STATE OF CALIFORNIA  
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**1 SECTION**  
 $\frac{3}{4}'' = 1'-0''$

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 Reviewed by: *Ingris P. Casiano*  
 INGRIS P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

DESIGN BY: Gang Hong CHECKED: Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET ST6-3
			54000R/L		
DETAILS BY: Daniel Harakh CHECKED: Gang Hong			POST MILE	SOUTHBOUND PICNIC SHELTERS	
QUANTITIES BY:			R107.3	BUILDING SECTION	
TAEWW Imperial - CCSC Rev. 02/13	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3581 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
					08-05-16 06-07-16

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**PROJECT DESIGN CRITERIA**

The building work on this project has been designed to conform to the 2013 California Building Code (2012 IBC).

**DETAIL NOTES**

**LOADS**

**SEISMIC:** Risk Category = II  
 Importance Factor I = 1.0  
 Site Soil Class = C  
 $S_S = 1.0$        $S_{DS} = 0.667$   
 $S_I = 0.35$        $S_{DI} = 0.339$   
 Seismic Design Category = D  
**Seismic Force-Resisting System:**  
 Cantilevered Column System  
North - South  
 Ordinary steel moment frames.  
 $R = 1.25$      $C_S = 0.534$   
 Cantilevered Column System  
East - West  
 Ordinary steel moment frames.  
 $R = 1.25$      $C_S = 0.534$   
**WIND:** Basic Wind Speed = 110 mph      I = 1.0  
 $\lambda = 1.21$        $P_{G30} = \pm 11.5$   
 $K_{zt} = 1.0$   
 Wind Pressure on Components and Cladding = 29.9 psf  
**LIVE LOAD:** Roof = 20 psf

**MATERIALS**

**REINFORCED CONCRETE:** (Ultimate Strength Design) :  
 $f'_c = 4,000$  psi  
 $f_y = 60,000$  psi  
**REINFORCED CONCRETE MASONRY UNITS:**  
 (Allowable Stress Design) :  
 $f'_m = 1,500$  psi  
 $f_y = 60,000$  psi  
 INSPECTION LEVEL 1  
**STRUCTURAL STEEL:** (Allowable Strength Design) :  
 Channels, Angles & Misc. Shapes       $F_y = 36$  ksi  
 Plates       $F_y = 36$  ksi  
 Hollow Structural Section (HSS)       $F_y = 46$  ksi  
**FOUNDATION:**  
 Foundation Investigation Report dated: Nov 18, 2015  
 Allowable Soil Pressure (DL + LL) : = 2,000 psf  
 For Soil Classification, see Log of Test Boring Sheets.

- For Concrete see: "Concrete Standard" sheet.
- For Masonry see: "Concrete Masonry Unit Details" sheet.
- All bolts must be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers must be helical spring lock washers.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	207	263

  
 REGISTERED CIVIL ENGINEER      DATE 6-13-16  
 6-13-16  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
**Gang Hong**  
 No. 60406  
 Exp. 6-30-18  
 CIVIL  
 STATE OF CALIFORNIA

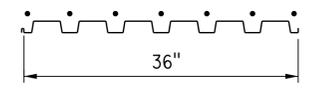
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 Reviewed by:   
**INGRIS P. ICASIANO**  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

**METAL DECK MINIMUM SECTION PROPERTIES**

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Metal Decking	1 1/2" x 16 Ga	0.377 in <sup>4</sup> /ft	0.411 in <sup>3</sup> /ft	0.417 in <sup>3</sup> /ft	38 Ksi

NOTE:  
 Minimum 3 Span Condition

**WELDING SCHEDULE and METAL DECK PROFILE**

Metal Deck Profile	1/2" Diameter Puddle Weld			Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Laps	
	7 - 1/2" $\phi$ - Puddle Welds Per Support	1/2" $\phi$ Puddle Welds @ 12" OC	Side Seam Welds @ 12" OC	2410 lb/ft

**A METAL DECK NOTES**

- Deck layout must provide all deck sheets of sufficient length to extend continuously over at least 3 spans.
- Ends of adjoining deck sheets must be centered over supports and abutted or acceptably lapped 2". Abutted sheets require 2 typical welds at each weld location.
- Puddle welds indicated as 1/2" must meet the weld requirements for a full effective 1/2"  $\phi$  fusion area at the face of support member and the burned out portion of the deck must be filled with melted weld rod material to the thickness of the sheet without porosity at the edge of the weld to sheet.
- Side seam welds requires that the side laps are to be clinched first to get contact of laps and that 1 1/2" long welds must engage inner leg and have fusion top and bottom.
- Do Not suspend ceilings, light fixtures and conduits, ducts, piping, or other utilities and utility components from deck.
- See  &  For framing @ opening in the metal deck.

DESIGN BY <b>Gang Hong</b> CHECKED <b>Bill Rocha</b> DETAILS BY <b>Daniel Harakh</b> CHECKED <b>Gang Hong</b> QUANTITIES BY _____ CHECKED _____	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No.	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND INTERPRETIVE CENTER DESIGN CRITERIA AND DETAIL NOTES	SHEET
			54000R/L		ST7-0
			POST MILE R107.3		OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES →	

TAEWW Imperial - CCSC Rev. 02/13      P:\dist\_08\0814000184\_cv\_kane\_sb\_srra\_upgrade\expd\fe\st7\_00.dgn

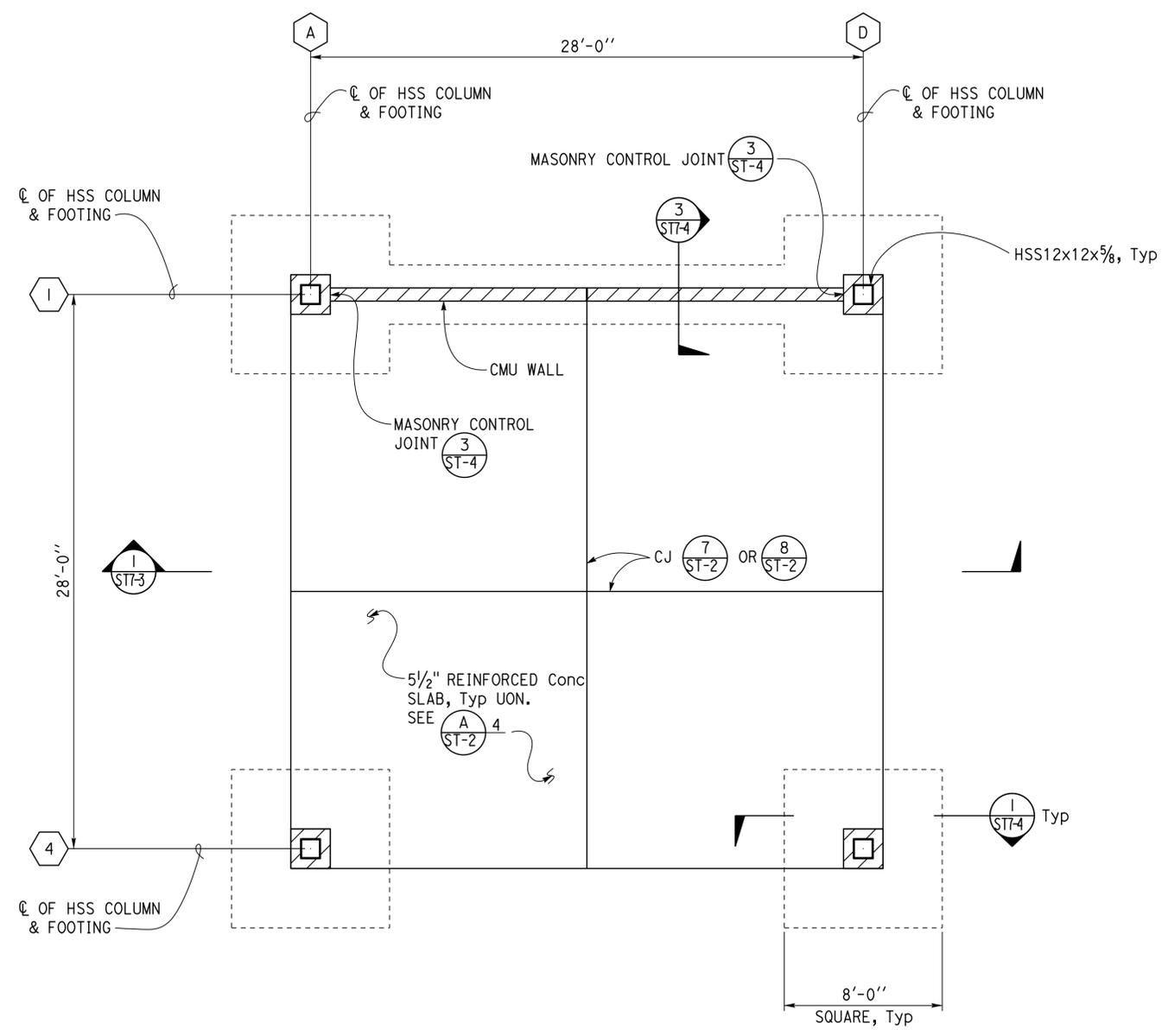
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	208	263

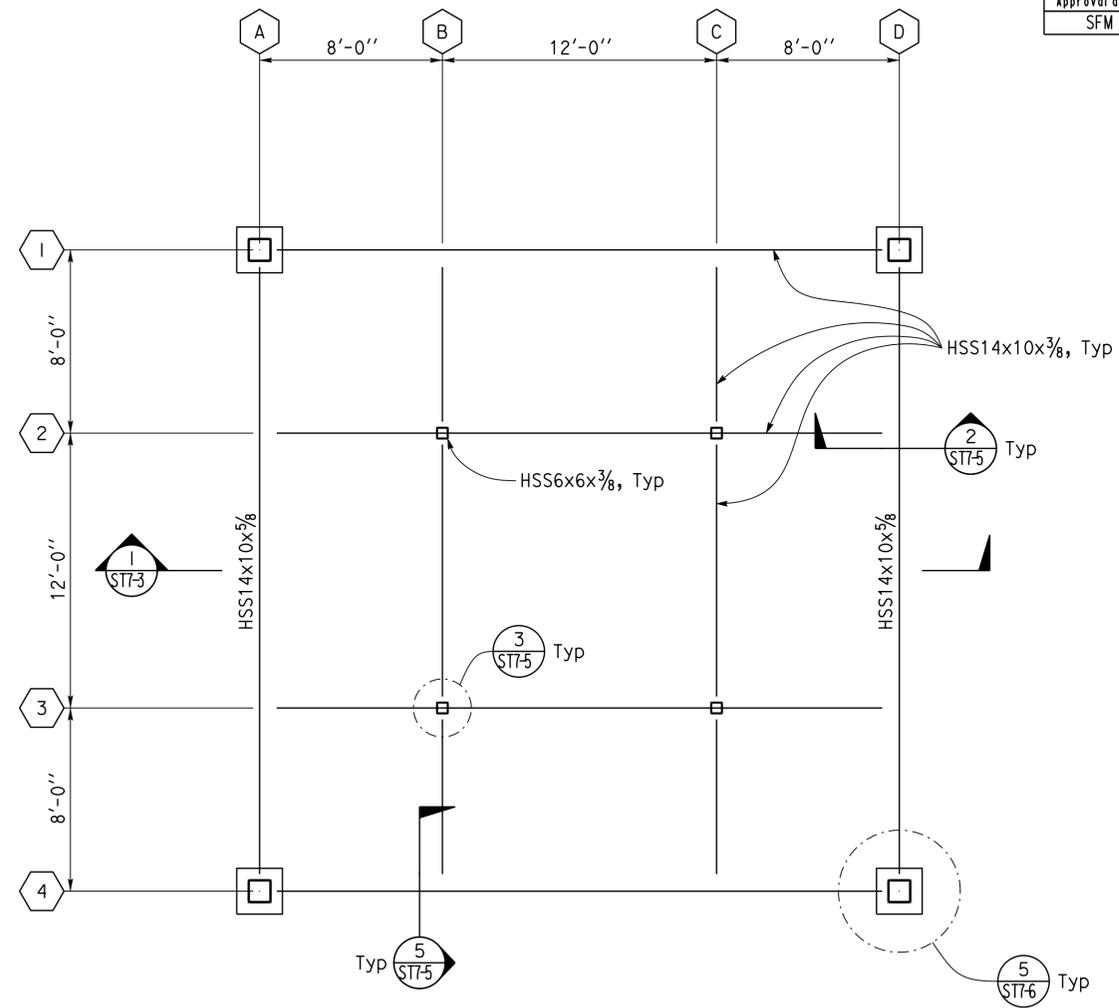
REGISTERED CIVIL ENGINEER *Gang Hong* DATE 6-13-16  
 PLANS APPROVAL DATE 6-13-16  
 REGISTERED PROFESSIONAL ENGINEER *Gang Hong* No. 60406 Exp. 6-30-18  
 CIVIL STATE OF CALIFORNIA  
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**A DESIGN NOTE**  
 1. See (1) ST-6 For Overexcavation and Recompanction.

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 Reviewed by: *Ingris P. Casiano*  
 INGRIS P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



**1 FOUNDATION PLAN**  
 1/4" = 1'-0"  
 Elevation 1755.08= Datum 0'-0''



**2 ROOF FRAMING PLAN AT CEILING LEVEL**  
 1/4" = 1'-0"

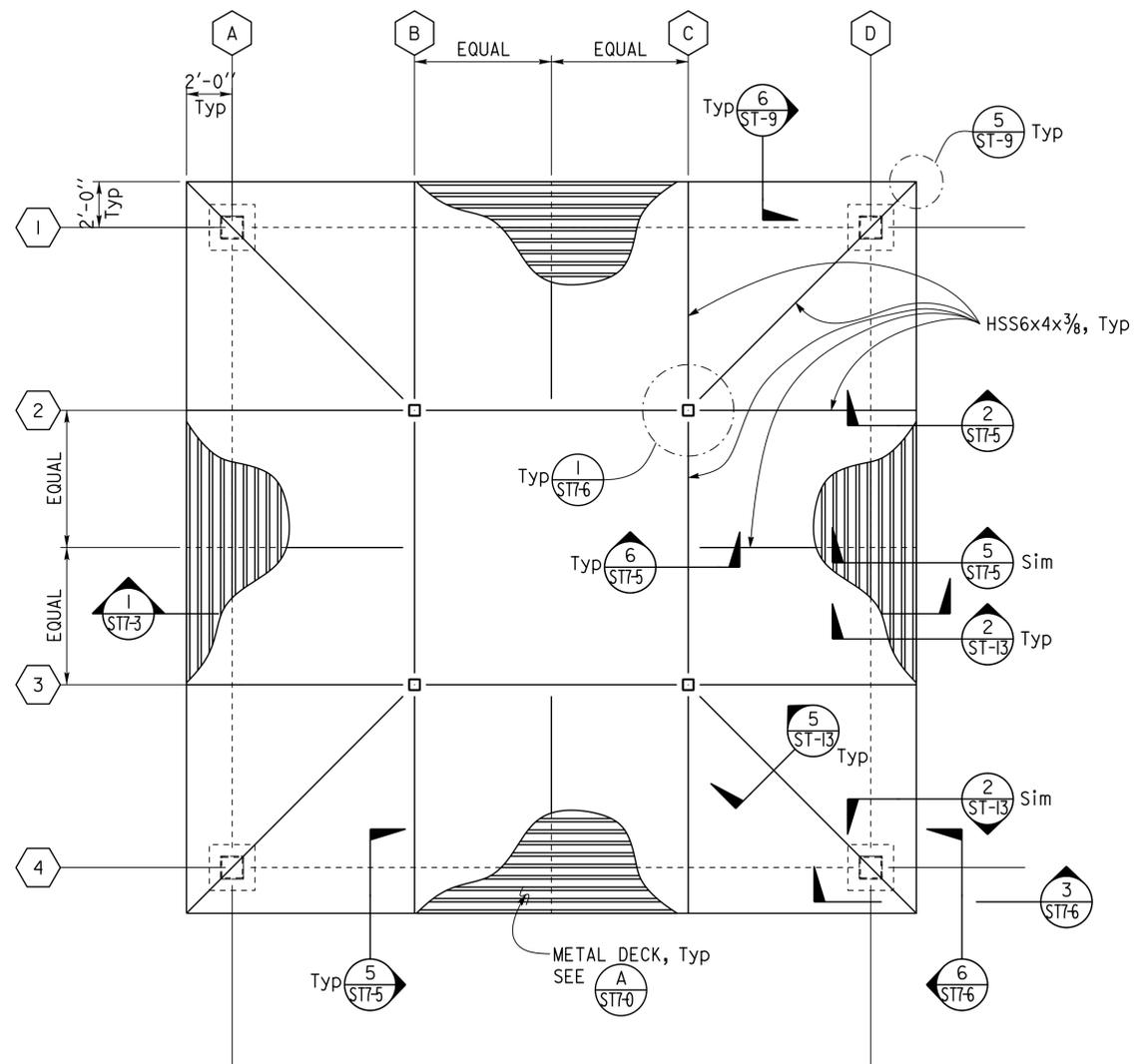
DESIGN BY <b>Gang Hong</b>	CHECKED <b>Bill Rocha</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54000R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET <b>ST7-1</b>
				POST MILE R107.3		
DETAILS BY <b>Daniel Harakh</b>	CHECKED <b>Gang Hong</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	FOUNDATION PLAN & ROOF FRAMING PLAN	SHEET OF
QUANTITIES BY	CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY) 08-06-13 06-07-16		

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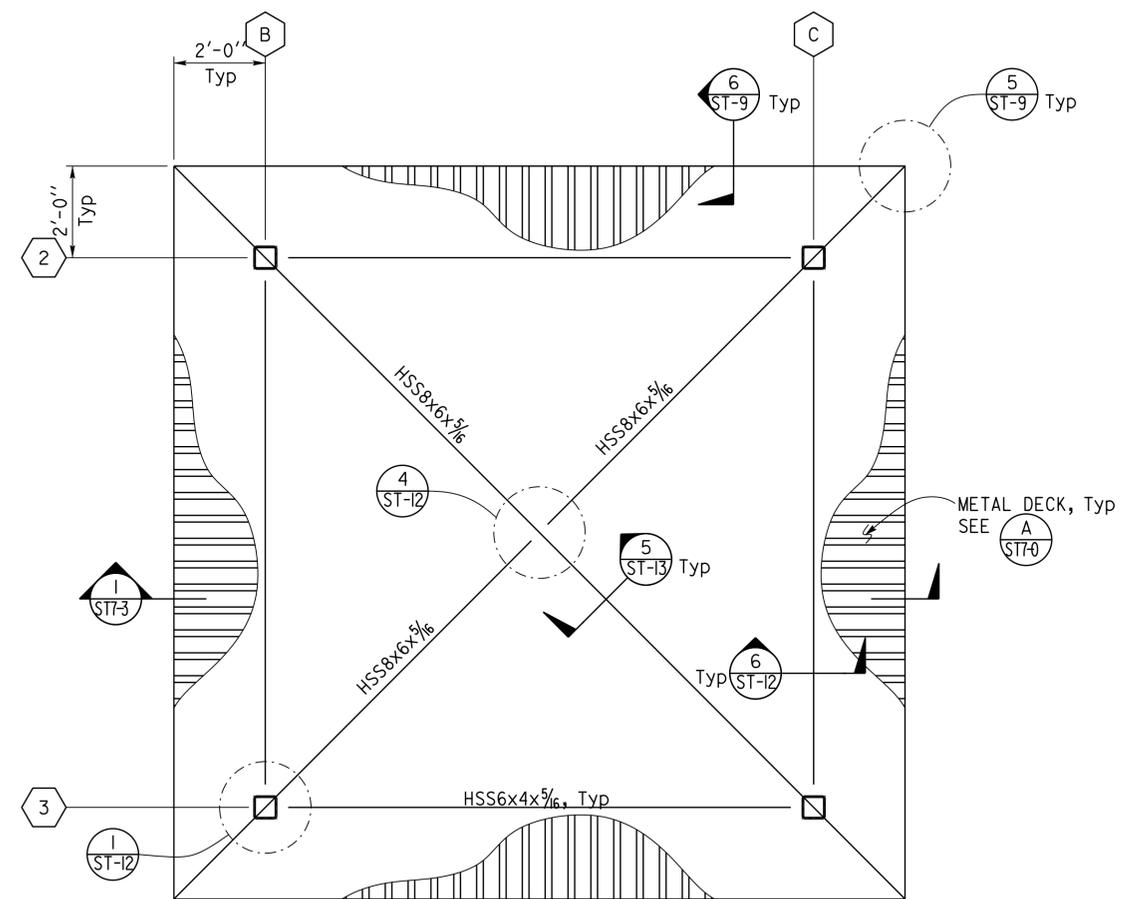
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	209	263

  
 REGISTERED CIVIL ENGINEER DATE 6-13-16  
 6-13-16  
 PLANS APPROVAL DATE  
  
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 INGRIS P. CASIANO  
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 SFM No: 01-36-11-0066



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



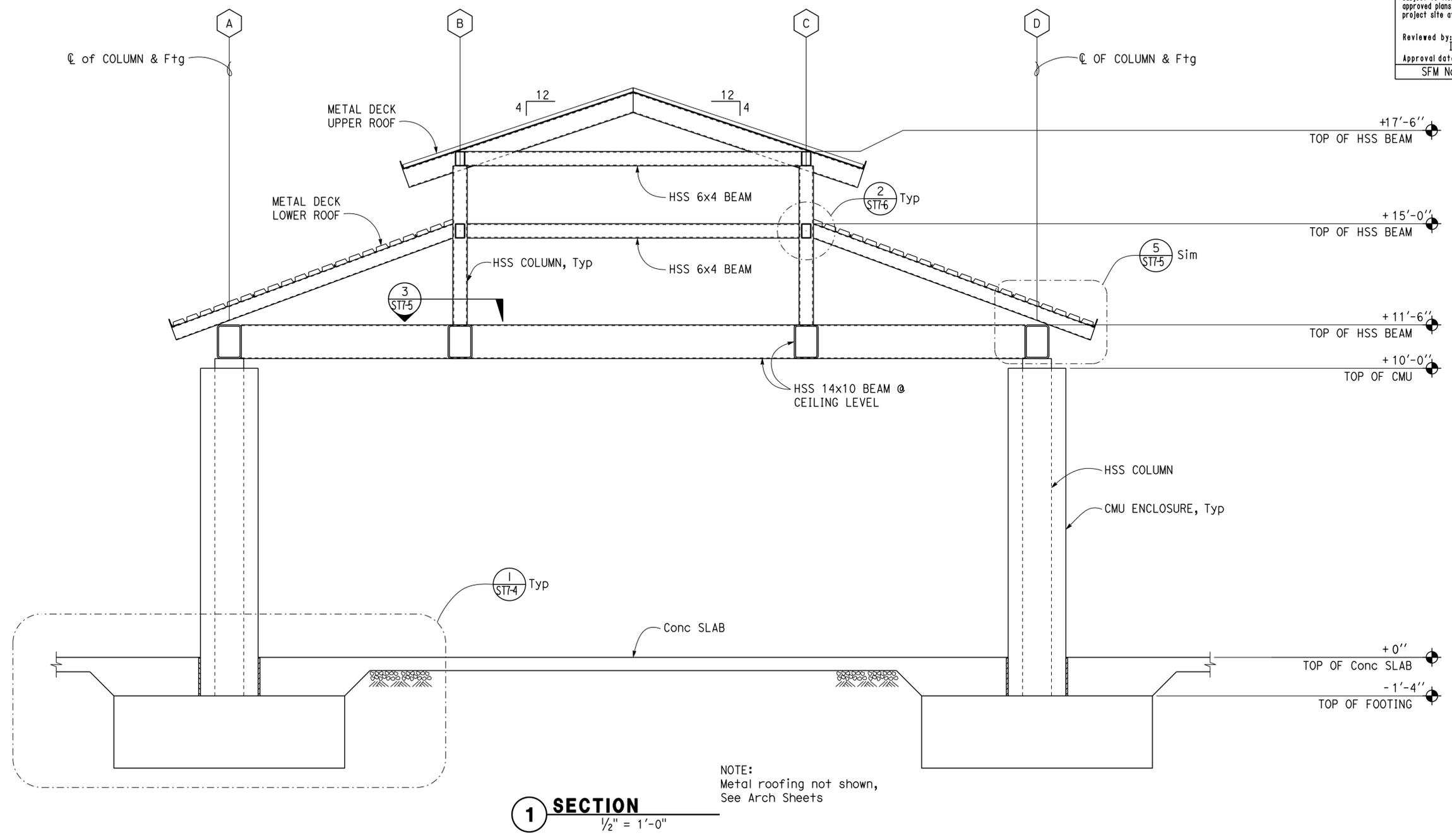
**2 UPPER ROOF FRAMING PLAN**  
1/2" = 1'-0"

DESIGN BY Gang Hong CHECKED Bill Rocha	DETAILS BY Daniel Harakh CHECKED Gang Hong	QUANTITIES BY CHECKED	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No. 54000R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND INTERPRETIVE CENTER ROOF FRAMING PLANS	SHEET ST7-2	
					POST MILE R107.3		REVISION DATES (PRELIMINARY STAGE ONLY)	OF
					UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES 08-06-13 06-07-16	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	210	263

REGISTERED CIVIL ENGINEER: *Gang Hong*  
 DATE: 6-13-16  
 PLANS APPROVAL DATE: 6-13-16  
 REGISTERED PROFESSIONAL ENGINEER: Gang Hong  
 No. 60406  
 Exp. 6-30-18  
 CIVIL  
 STATE OF CALIFORNIA  
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 Reviewed by: *Ingris P. Icasiano*  
 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



DESIGN BY: Gang Hong CHECKED: Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54000R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SECTION	SHEET OF ST7-3
			POST MILE R107.3			
DETAILS BY: Daniel Harakh CHECKED: Gang Hong	UNIT: 3581 CONTRACT No.: 08-068424	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	08-06-13/06-07-16		
QUANTITIES BY: [Blank] CHECKED: [Blank]	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	PROJECT NUMBER & PHASE: 08140001841	P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expd\fe\st7_03.dgn			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	211	263

<i>Gang Hong</i>	6-13-16
REGISTERED CIVIL ENGINEER	DATE
6-13-16	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER

Gang Hong

No. 60406

Exp. 6-30-18

CIVIL

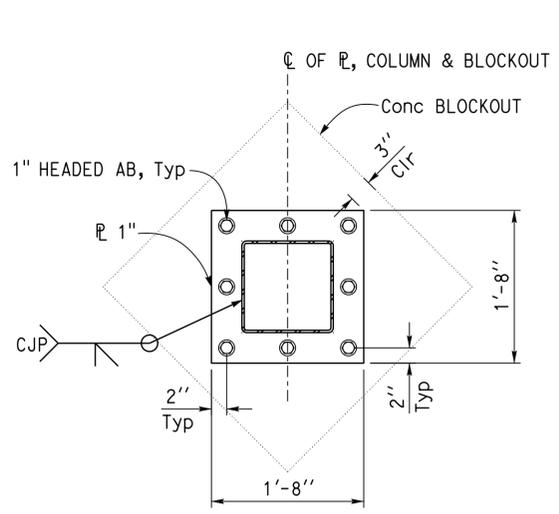
STATE OF CALIFORNIA

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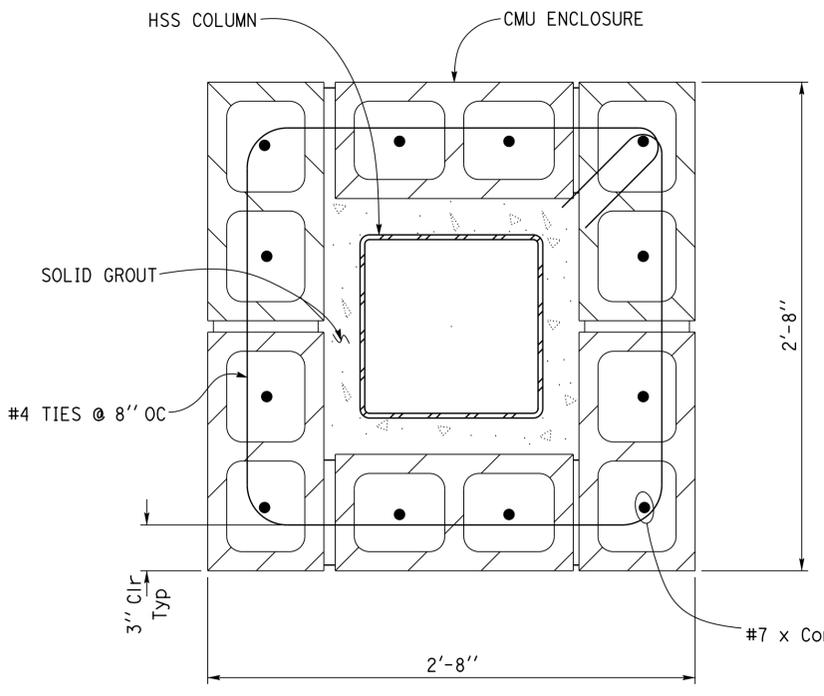
OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND PANIC ONLY

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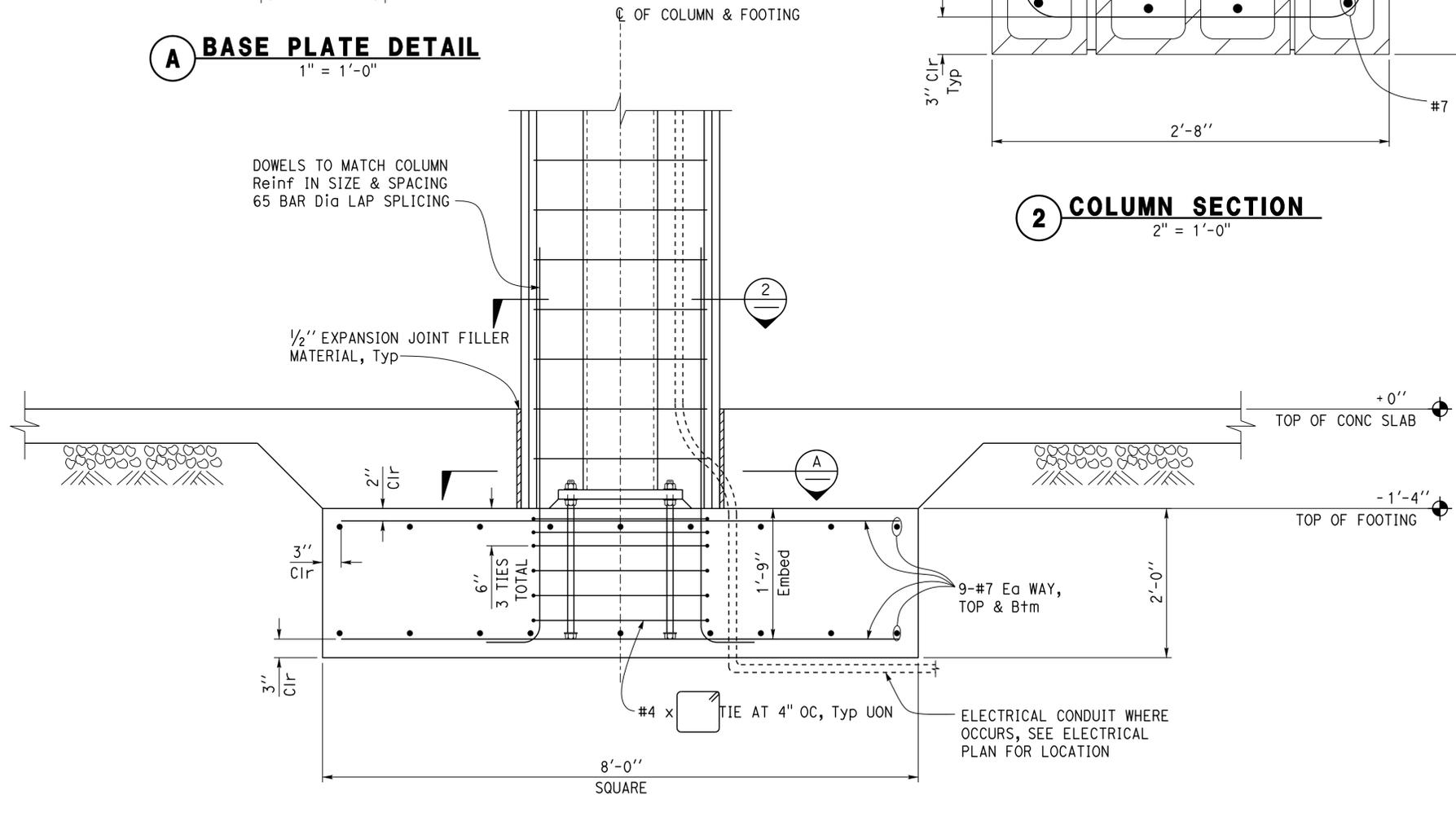
Reviewed by: *Ingris P. Icasiano*  
INGRIS P. ICASIANO  
Approval date: 07-02-16  
SFM No: 01-36-11-0066



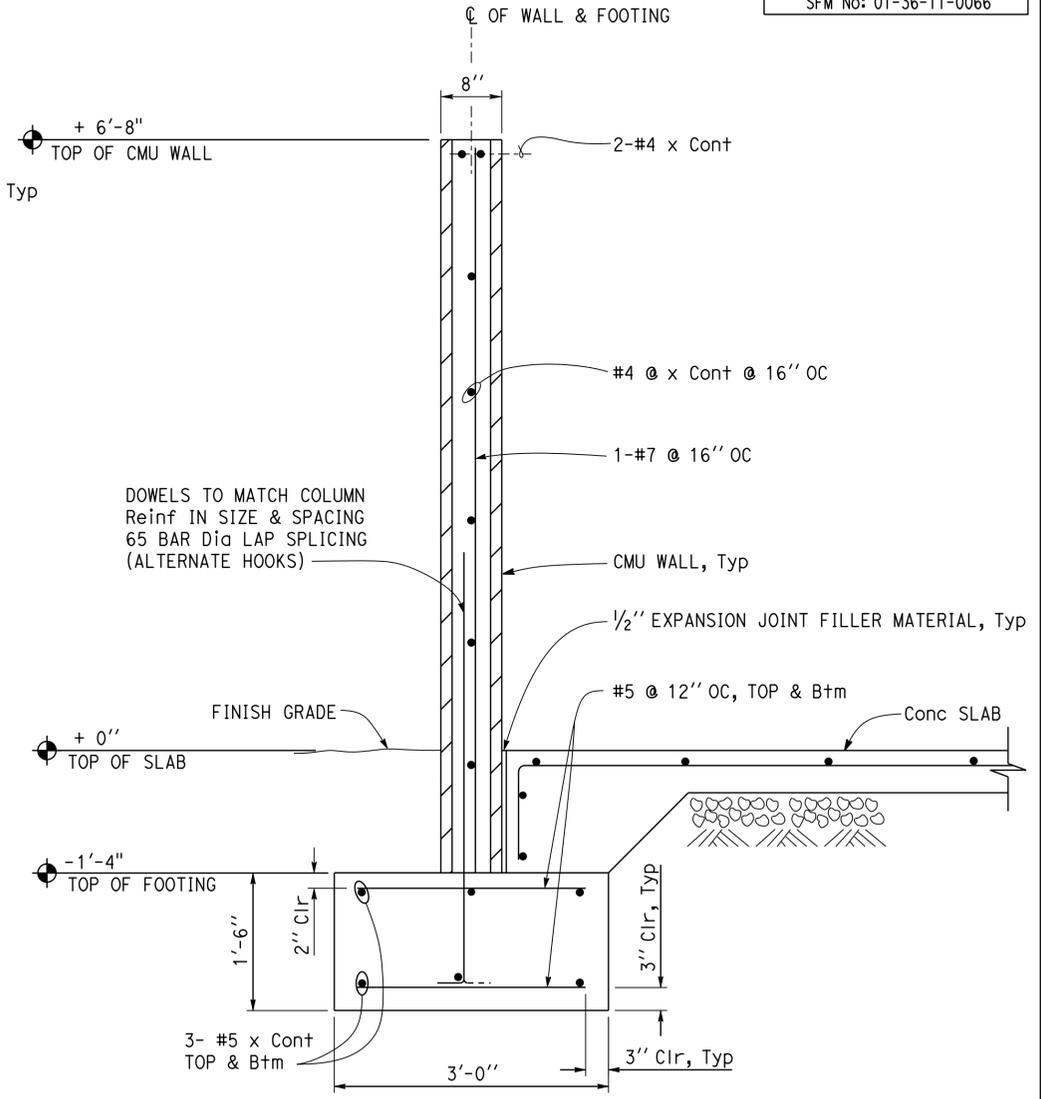
**A BASE PLATE DETAIL**  
1" = 1'-0"



**2 COLUMN SECTION**  
2" = 1'-0"



**1 COLUMN FOOTING**  
1" = 1'-0"



**3 FOOTING DETAIL**  
1" = 1'-0"

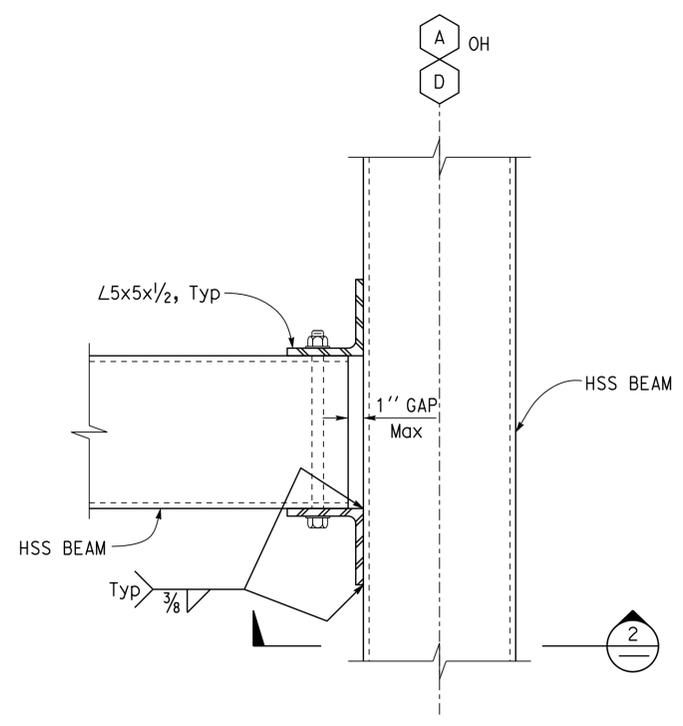
DESIGN BY	Gang Hong	CHECKED	Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET	ST7-4		
DETAILS BY	Daniel Harakh	CHECKED	Gang Hong			54000R/L		SOUTHBOUND INTERPRETIVE CENTER		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET
QUANTITIES BY		CHECKED				POST MILE		R107.3		08-08-16 06-07-16	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3581 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	08-08-16 06-07-16	SHEET	OF		

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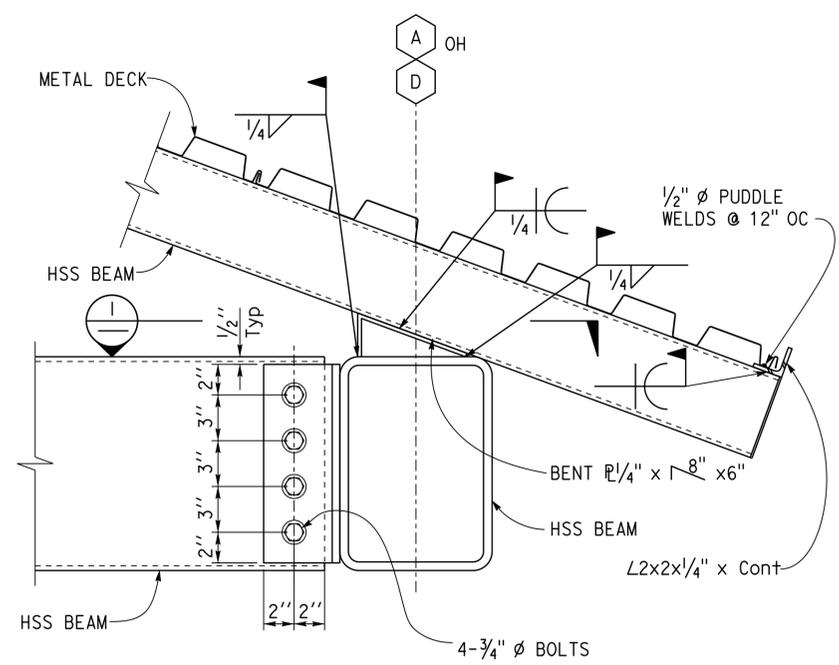
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	212	263
 REGISTERED CIVIL ENGINEER			DATE		
6-13-16			PLANS APPROVAL DATE		
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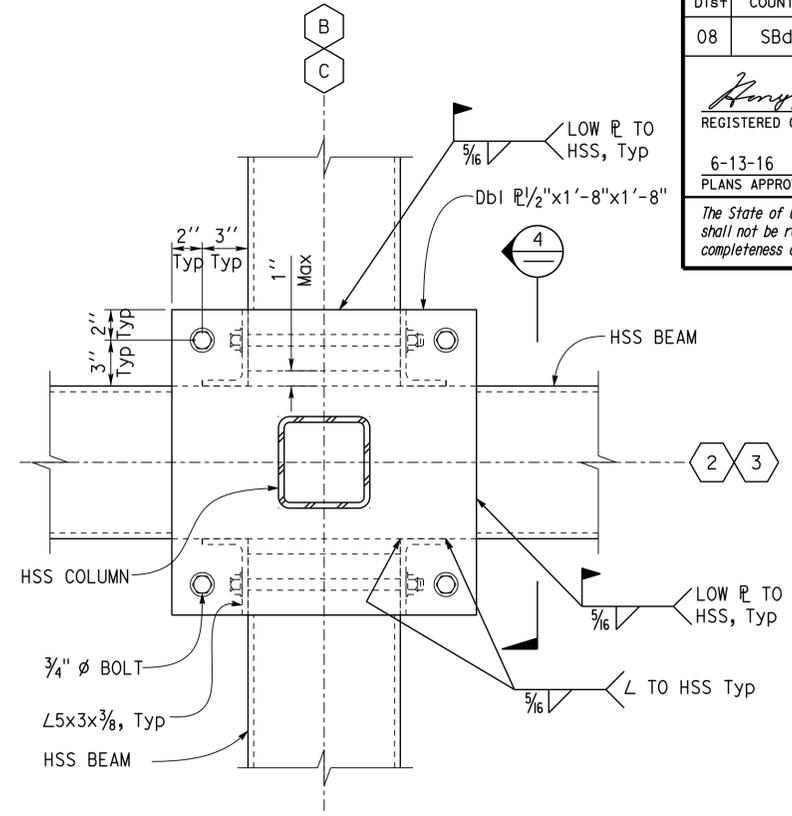
OFFICE OF THE STATE FIRE MARSHAL  
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 INGRIS P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



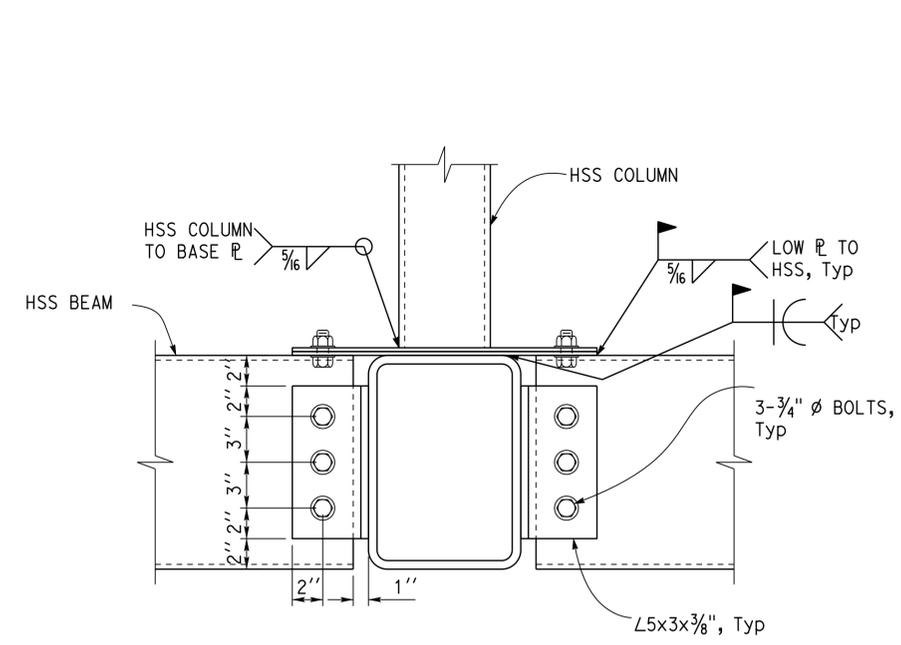
**1 BEAM TO BEAM CONNECTION**  
 2" = 1'-0"



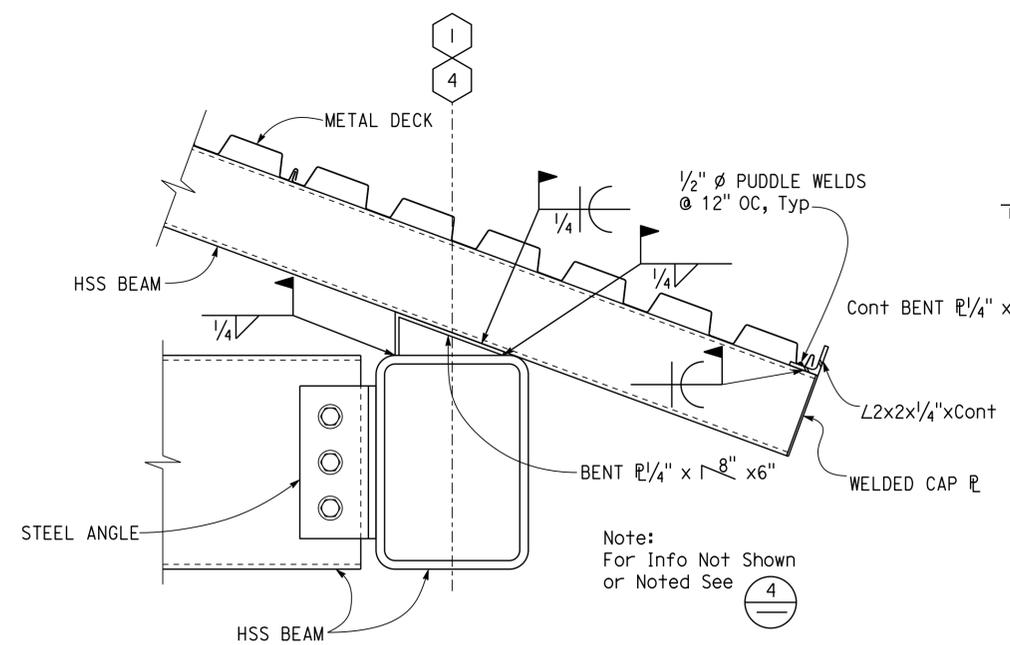
**2 BEAM TO BEAM CONNECTION**  
 2" = 1'-0"



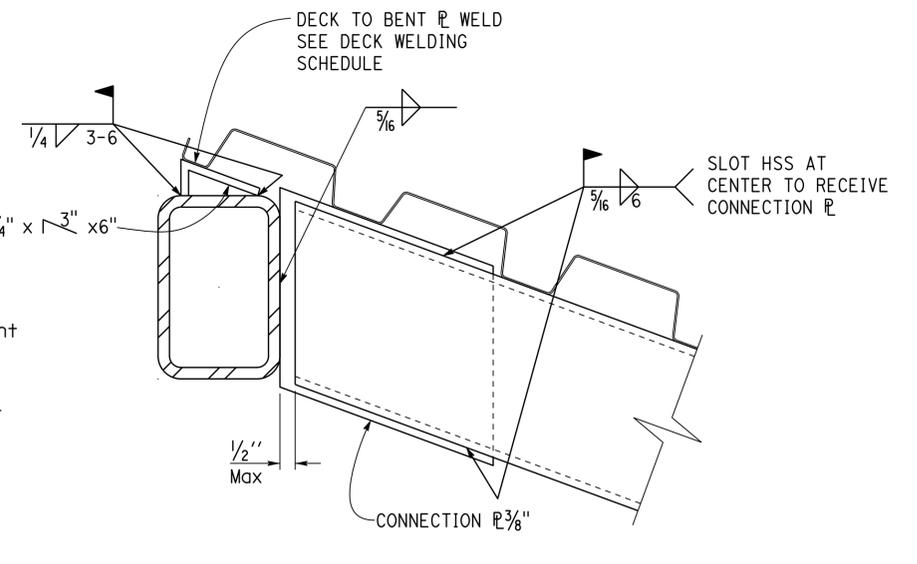
**3 COLUMN TO BEAM CONNECTION**  
 2" = 1'-0"



**4 BEAM TO BEAM CONNECTION @ CEILING LEVEL**  
 2" = 1'-0"



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



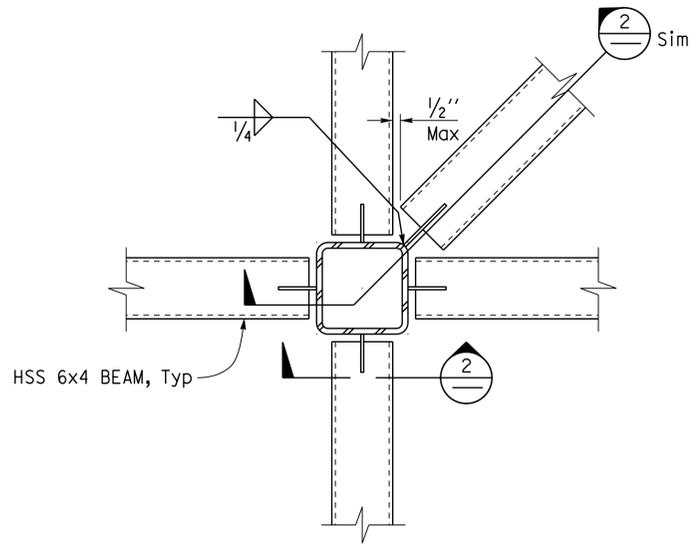
**6 BEAM TO BEAM CONNECTION**  
 4" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Bill Rocha	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 54000R/L POST MILE R107.3	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND INTERPRETIVE CENTER ROOF FRAMING DETAILS	SHEET <b>ST7-5</b>	
	DETAILS	BY	Daniel Harakh	CHECKED					Gang Hong
	QUANTITIES	BY		CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-06-13 06-07-16	SHEET OF

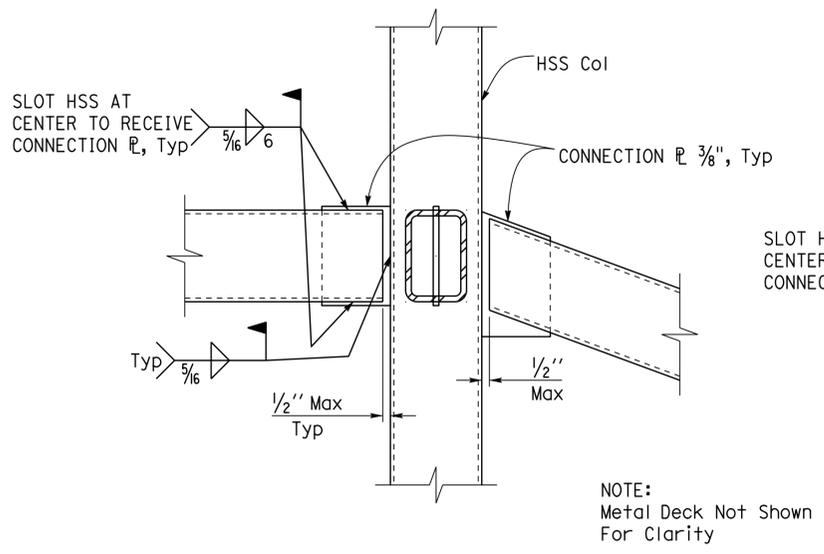
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	213	263

REGISTERED CIVIL ENGINEER *Gang Hong* DATE 6-13-16  
 REGISTERED PROFESSIONAL ENGINEER *Gang Hong* No. 60406 Exp. 6-30-18  
 PLANS APPROVAL DATE 6-13-16  
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 INGRID P. CASIANO  
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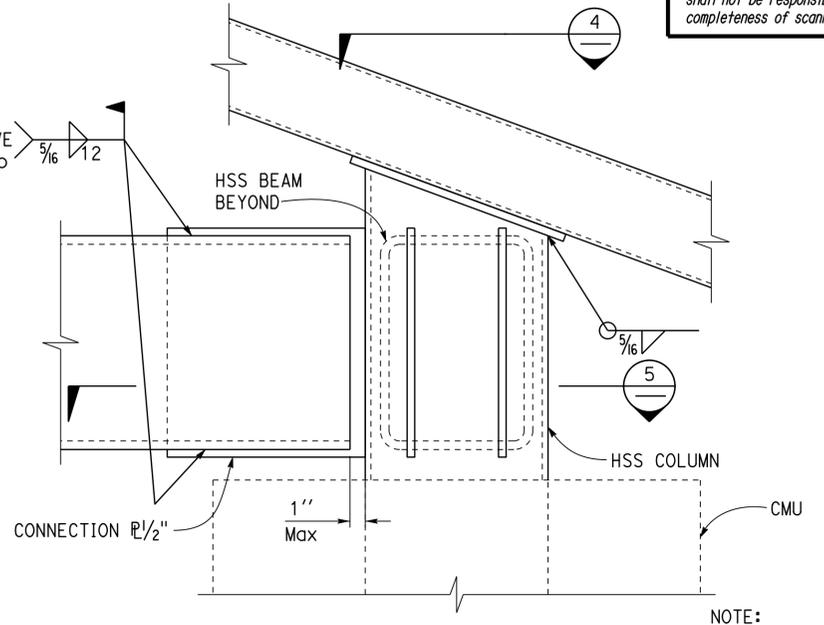
**1 BEAM TO COLUMN CONNECTION**  
2" = 1'-0"



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

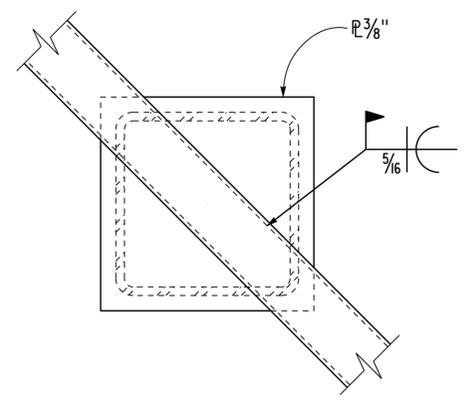
SLOT HSS AT CENTER TO RECEIVE CONNECTION R, Typ

NOTE: Metal Deck Not Shown For Clarity

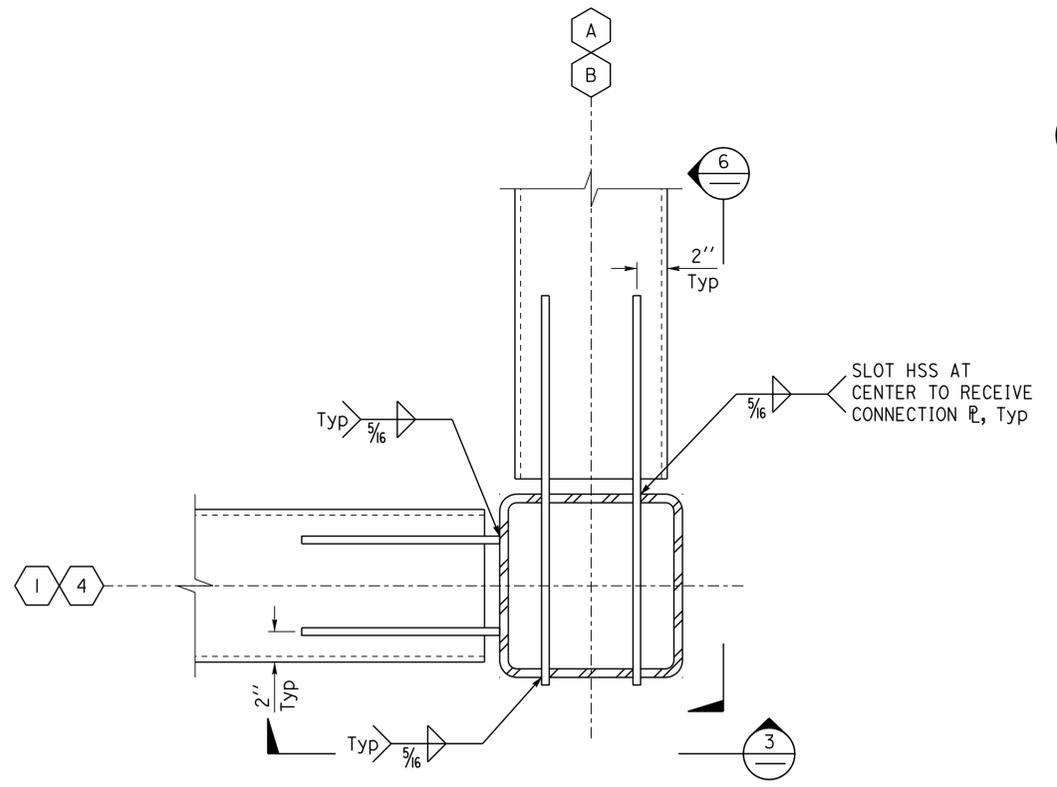


**3 BEAM TO COLUMN CONNECTION**  
2" = 1'-0"

NOTE: Metal Deck Not Shown For Clarity

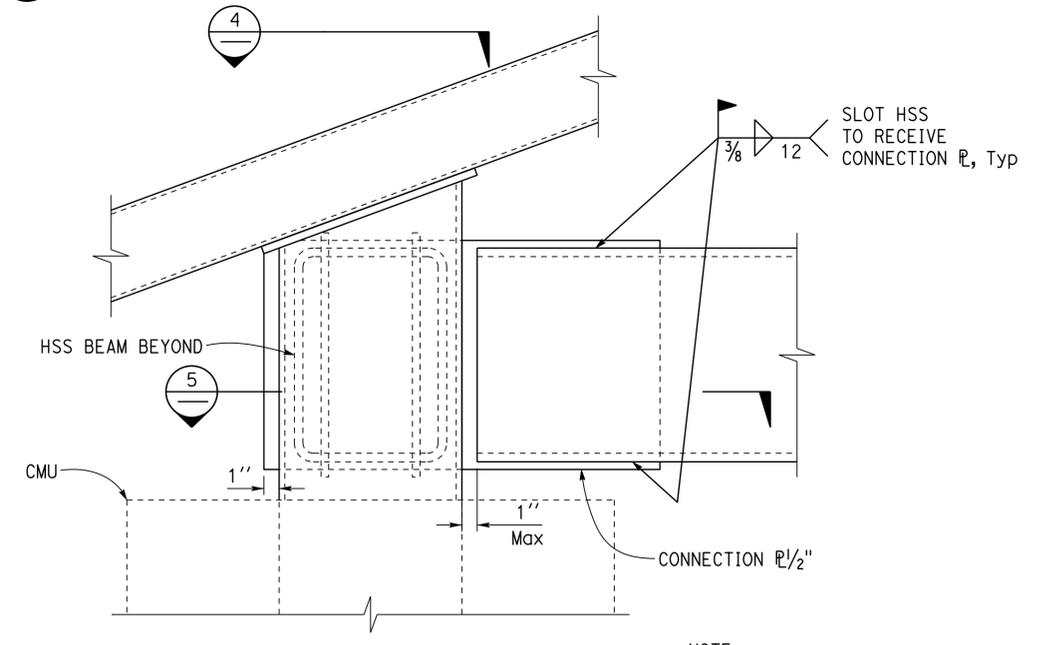


**4 BEAM TO PLATE CONNECTION**  
2" = 1'-0"



**5 BEAM TO COLUMN CONNECTION AT CEILING LEVEL**  
2" = 1'-0"

NOTE: Metal Deck Not Shown For Clarity



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

NOTE: Metal Deck Not Shown For Clarity

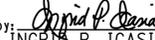
DESIGN	BY	Gang Hong	CHECKED	Bill Rocha	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION		SHEET <b>ST7-6</b>		
	DETAILS	BY	Daniel Harakh	CHECKED			Gang Hong	54000R/L	SOUTHBOUND INTERPRETIVE CENTER			
	QUANTITIES	BY		CHECKED				POST MILE R107.3	ROOF FRAMING DETAILS			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3581 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13 P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expd\fe\st7_06.dgn												

EQUIPMENT SCHEDULE

EQUIPMENT	VOLT	PHASE	POWER	DESCRIPTION
ELECTRIC WATER CHILLER	120	1	1/4 HP	8 gph 50° F OUTLET AT 80° F INLET
ELECTRIC WATER HEATER	208	1	2500 W	10 gal RECOVERY; 10 gph AT 100°F RISE
THRU WALL HEAT PUMP 1&2	208	1	4 A	7,100 BTU COOLING, 6,200 BTU HEATING 13.0 EER
EXHAUST FANS EF-1,2,3	120	1	2.1 A	250 cfm 2.3 SONES Max

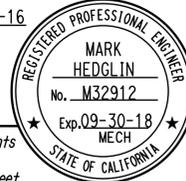
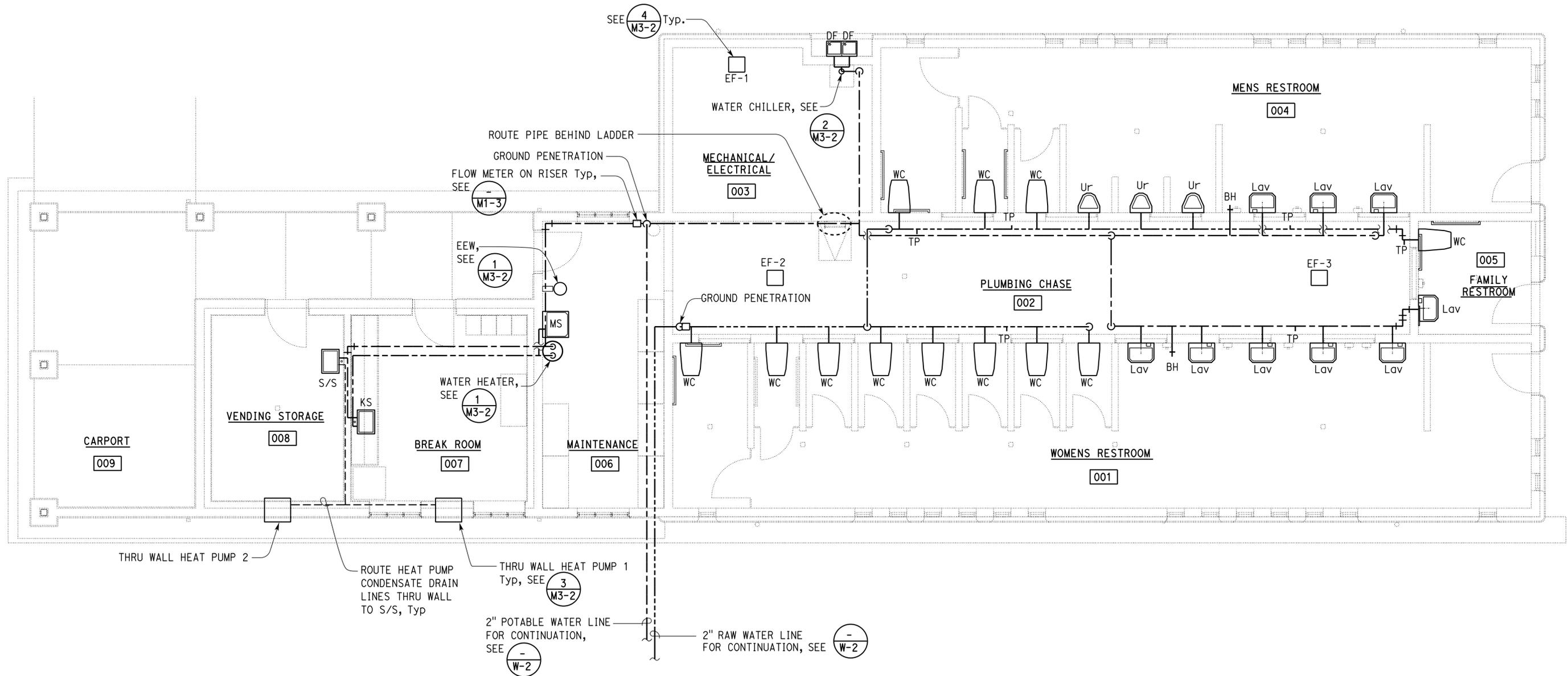
NOTES:

- FOR PIPING SCHEMATIC, SEE  
- EXHAUST FAN MAKE UP AIR FROM VENTS AND LOUVERS, SEE ARCHITECTURAL SHEETS

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 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	214	263

06-13-16  
 REGISTERED MECHANICAL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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PLAN

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



APPROVED FOR MECHANICAL WORK ONLY

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY Mark Hedglin	CHECKED Seve Gutierrez
	DETAILS	BY Mark Hedglin	CHECKED Seve Gutierrez
	QUANTITIES	BY Mark Hedglin	CHECKED Seve Gutierrez

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 540004R/L
DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R107.3

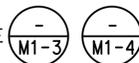
C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET M1-1
DOMESTIC WATER PLAN	

UNIT: 3615	CONTRACT No.: 08-068424	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
PROJECT NUMBER & PHASE: 08140001841			08-16-13   08-14-13   08-14-13   10-15-13   11-20-13   2-04-16   06-13-16	



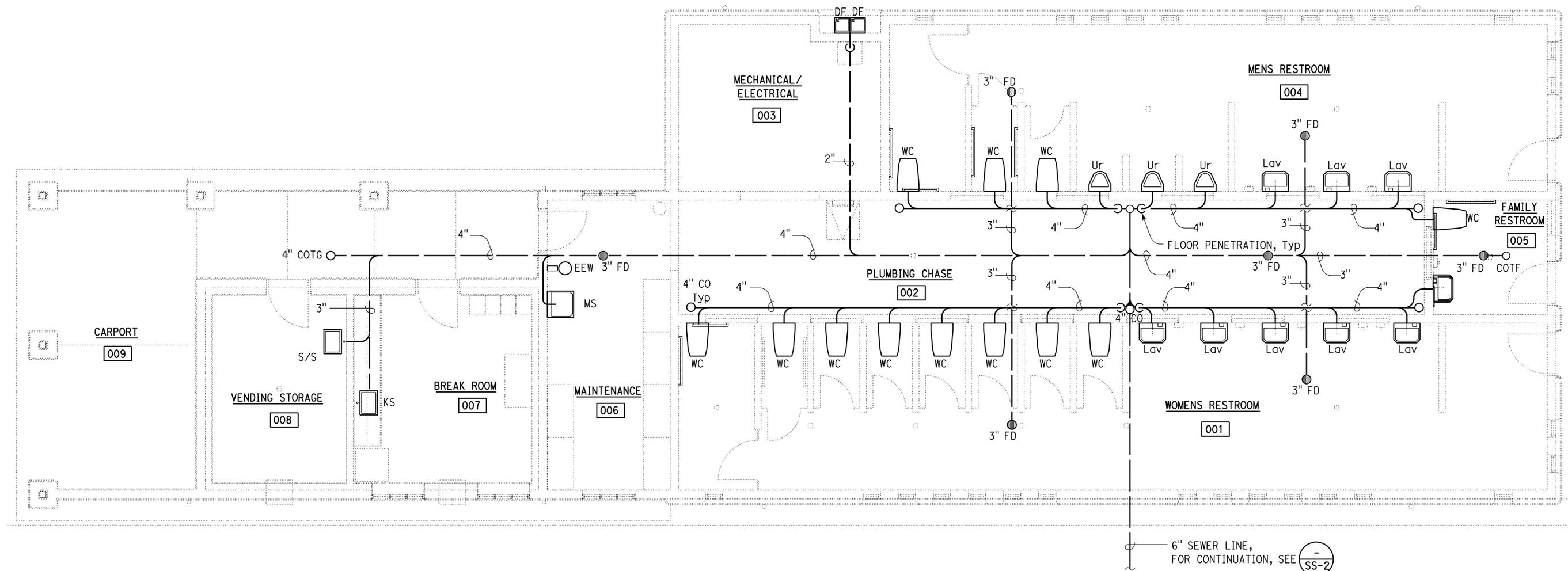
NOTE:

1. FOR PIPING SCHEMATIC, SEE



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 INGRID P. CASIANO  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	215	263
			06-13-16	DATE	
			06-13-16	PLANS APPROVAL DATE	
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**PLAN**  
 PLAN NORTH SCALE: 1/4" = 1'-0"

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DESIGN BY Mark Hedglin	CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SANITARY SEWER	SHEET M1-2	
DETAILS BY Mark Hedglin	CHECKED Seve Gutierrez			POST MILE R107.3		SOUTHBOUND COMFORT STATION A	OF
QUANTITIES BY Mark Hedglin	CHECKED Seve Gutierrez			UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)



08-16-13	08-14-13	08-14-13	08-14-13	08-14-13	08-14-13	08-14-13	08-14-13	08-14-13	08-14-13
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# PLUMBING SCHEDULE

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
LAVATORY	2"	1 1/2"	1 1/4"	1/2"	-
WATER CLOSET	3"	-	2"	1 1/2"	-
WATERLESS URINAL	2"	-	1 1/2"	-	-
KITCHEN SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"
SERVICE & MOP SINK	3"	3"	1 1/2"	1/2"	1/2"
BOX HYDRANT (BH)	-	-	-	3/4"	-
DRINKING FOUNTAIN	1 1/2"	1 1/4"	1 1/4"	1/2"	-
TRAP PRIMER (TP)	-	-	-	1/2"	-
FLOOR DRAIN	3"	3"	1 1/2"	-	-
EMERGENCY EYE WASH	-	-	-	1/2"	-
ELECTRIC WATER HEATER	-	-	-	3/4"	3/4"

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 INGRID P. CASIANO  
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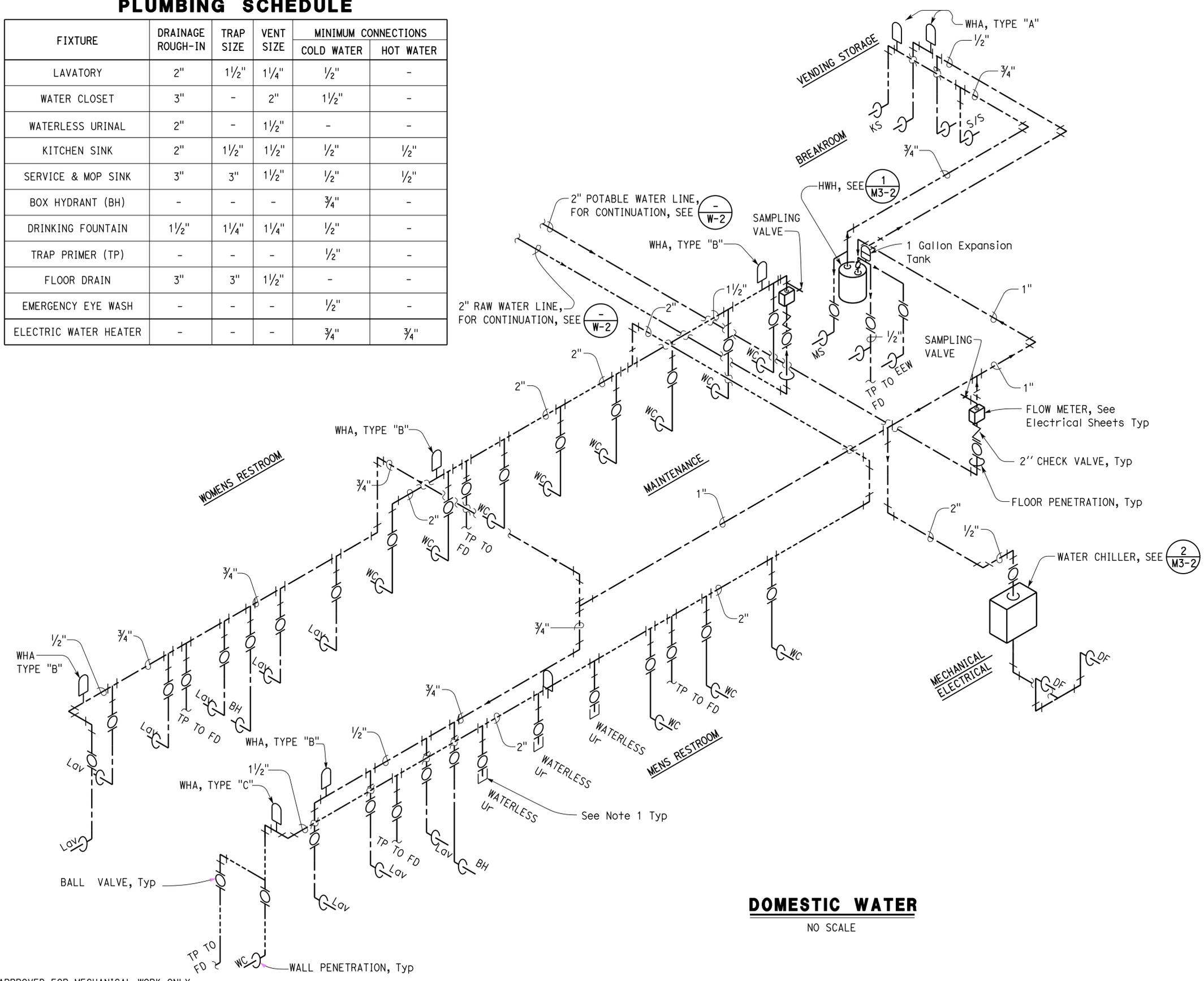
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	216	263

REGISTERED MECHANICAL ENGINEER DATE 06-13-16

06-13-16 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 MARK HEDGLIN  
 No. M32912  
 Exp. 09-30-18  
 MECH  
 STATE OF CALIFORNIA

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## DOMESTIC WATER

NO SCALE

- NOTES
1. Run supply pipe and cap per California Plumbing Code

APPROVED FOR MECHANICAL WORK ONLY

DESIGN BY Mark Hedglin	CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> DOMESTIC WATER-SCHEMATIC	SHEET M1-3	
DETAILS BY Mark Hedglin	CHECKED Seve Gutierrez			POST MILE R107.3		COMFORT STATION A	OF
QUANTITIES BY Mark Hedglin	CHECKED Seve Gutierrez			UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

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

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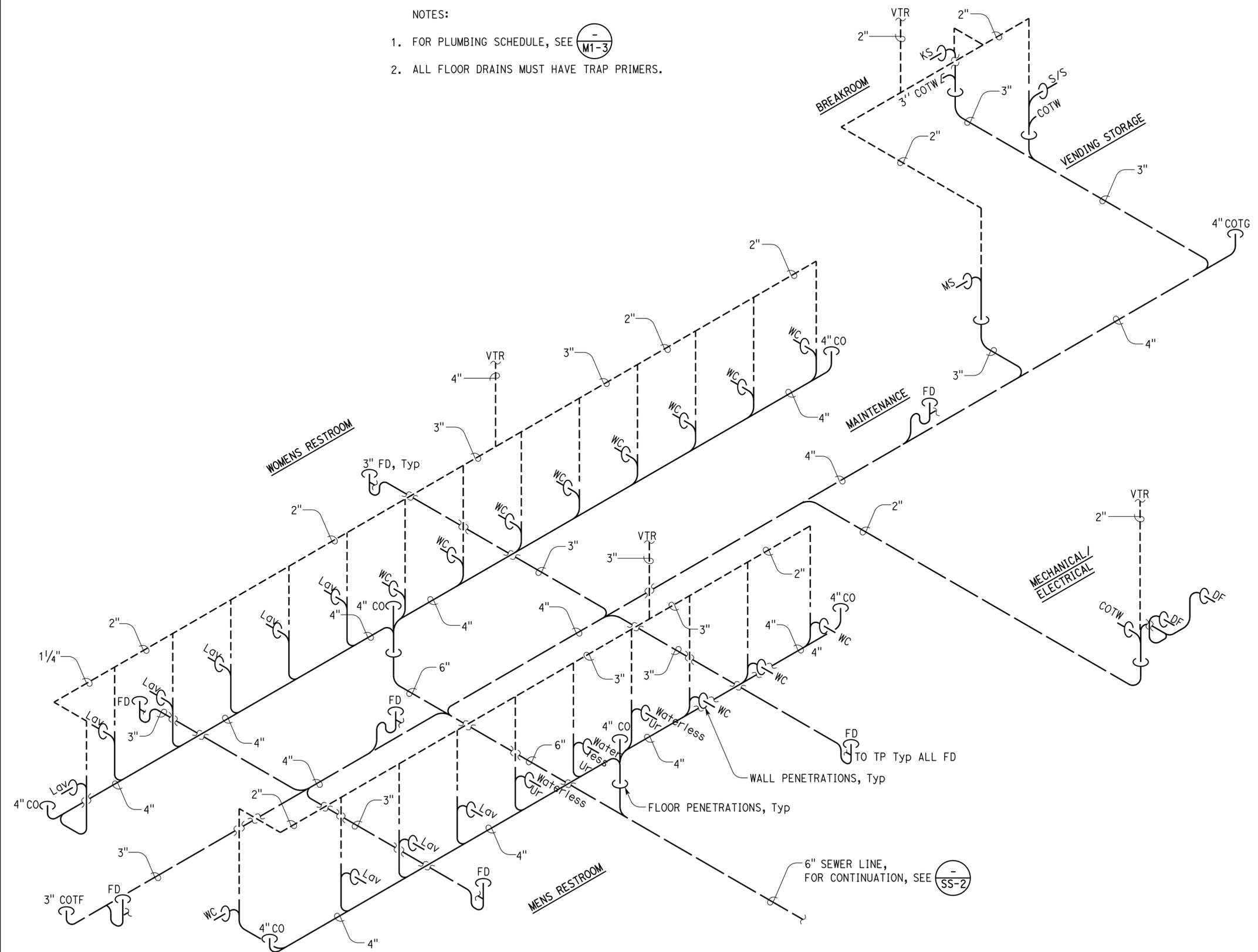
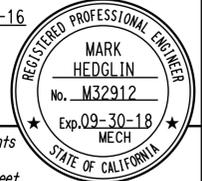
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NOTES:

- FOR PLUMBING SCHEDULE, SEE 
- ALL FLOOR DRAINS MUST HAVE TRAP PRIMERS.

OFFICE OF THE STATE FIRE MARSHAL  
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 Reviewed by:   
 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	217	263
 REGISTERED MECHANICAL ENGINEER			06-13-16	DATE	
PLANS APPROVAL DATE			06-13-16		
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**SANITARY SEWER**

NO SCALE

APPROVED FOR MECHANICAL WORK ONLY

DESIGN	BY	Mark Hedglin	CHECKED	Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	540004R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION SANITARY SEWER-SCHEMATIC	SHEET <b>M1-4</b>	
	DETAILS	BY	Mark Hedglin	CHECKED			Seve Gutierrez	POST MILE			R107.3
	QUANTITIES	BY	Mark Hedglin	CHECKED			Seve Gutierrez	POST MILE			R107.3
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	

EQUIPMENT SCHEDULE

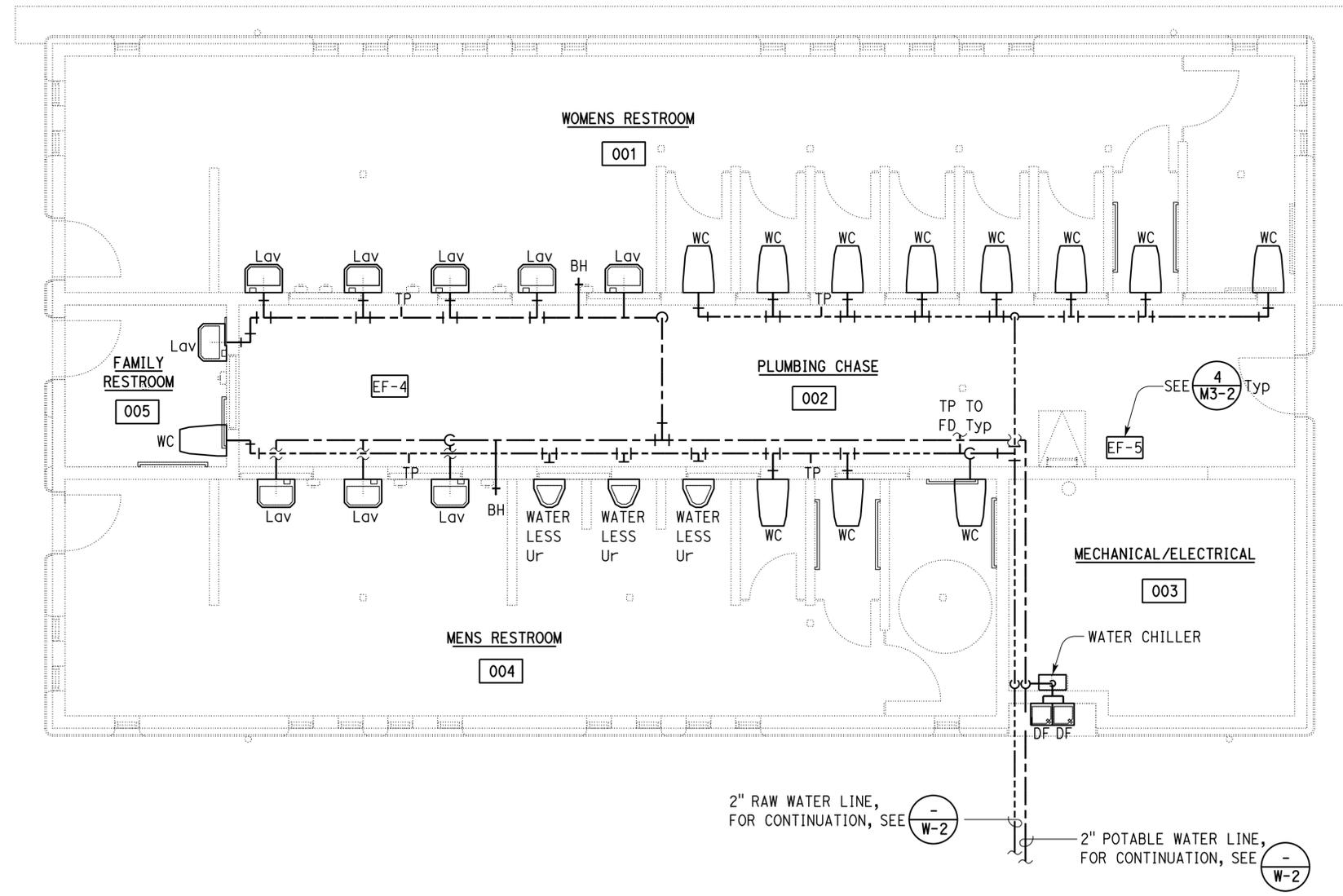
EQUIPMENT	VOLT	PHASE	POWER	DESCRIPTION
ELECTRIC WATER CHILLER	120	1	1/4 Hp	8 GPH 50°F OUTLET AT 80°F INLET
EXHAUST FAN EF-4,5	120	1	2.1 A	250 Cfm, 2.3 SONES Max

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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	218	263

REGISTERED MECHANICAL ENGINEER DATE 06-13-16  
 PLANS APPROVAL DATE 06-13-16  
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REGISTERED PROFESSIONAL ENGINEER  
 MARK HEDGLIN  
 No. M32912  
 Exp. 09-30-18  
 MECH  
 STATE OF CALIFORNIA



- NOTE:
- FOR PIPING SCHEMATIC, SEE M2-3, M2-4
  - EXHAUST FAN MAKE UP AIR FROM VENTS AND LOUVERS, SEE ARCHITECTURAL SHEETS

**PLAN**

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



APPROVED FOR MECHANICAL WORK ONLY

DESIGN BY Mark Hedglin CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION		SHEET M2-1
			POST MILE R107.3	DOMESTIC WATER PLAN		
DETAILS BY Mark Hedglin CHECKED Seve Gutierrez	UNIT: 3615	CONTRACT No.: 08-068424	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Mark Hedglin CHECKED Seve Gutierrez	PROJECT NUMBER & PHASE: 08140001841	08-16-13   08-14-15   08-14-15   10-15-15   11-20-15   2-04-16   06-13-16			SHEET	OF

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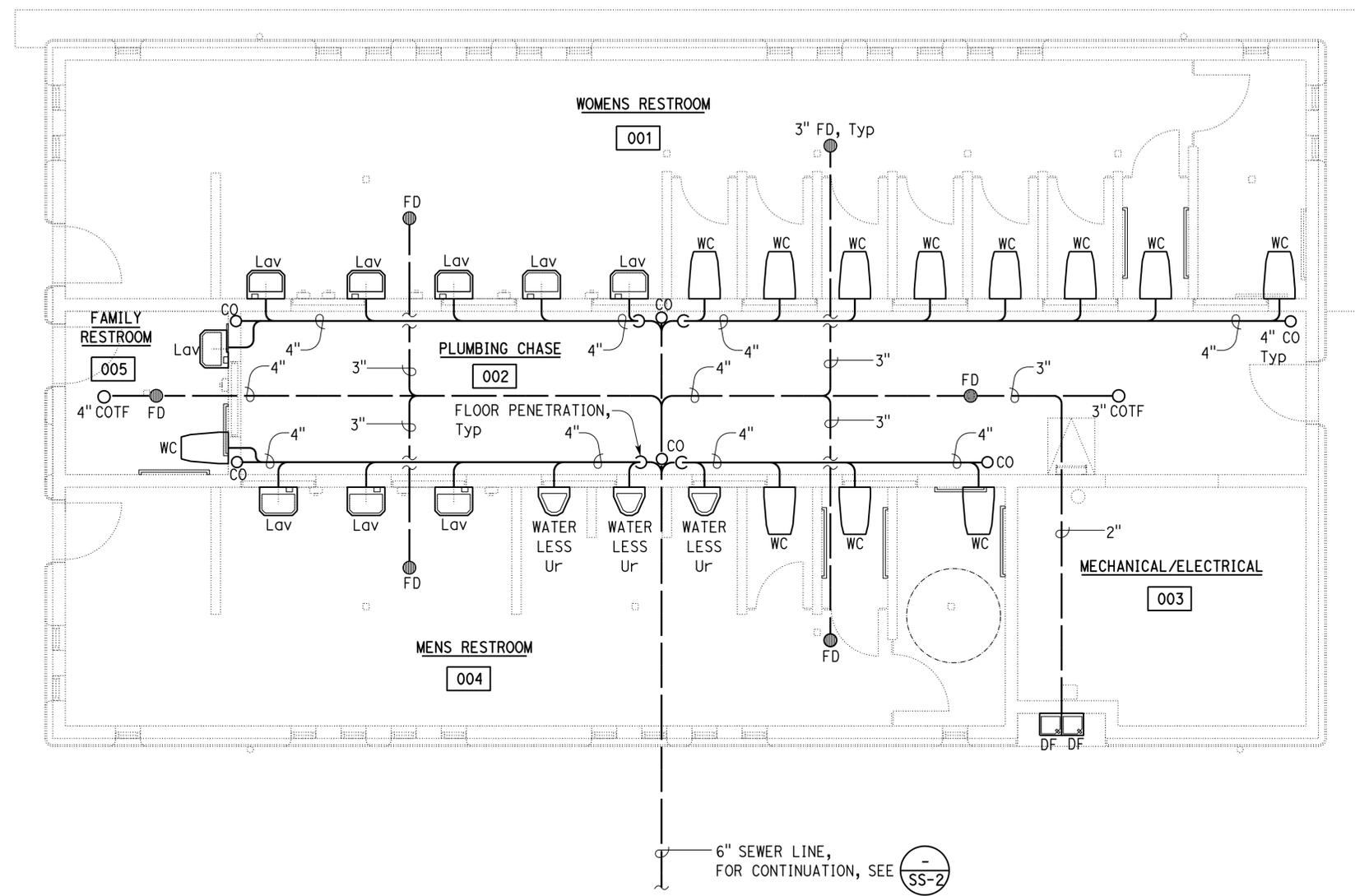
Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	219	263

REGISTERED MECHANICAL ENGINEER DATE: 06-13-16  
 PLANS APPROVAL DATE: 06-13-16

REGISTERED PROFESSIONAL ENGINEER  
 MARK HEDGLIN  
 No. M32912  
 Exp. 09-30-18  
 MECH  
 STATE OF CALIFORNIA

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NOTE:  
 1. FOR PIPING SCHEMATIC, SEE

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



APPROVED FOR MECHANICAL WORK ONLY

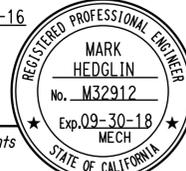
DESIGN BY Mark Hedglin CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION		SHEET M2-2
			POST MILE R107.3	SANITARY SEWER PLAN		
DETAILS BY Mark Hedglin CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Mark Hedglin CHECKED Seve Gutierrez			08-16-13 08-14-13 09-14-13 10-15-13 11-20-13 2-04-16 06-13-16			

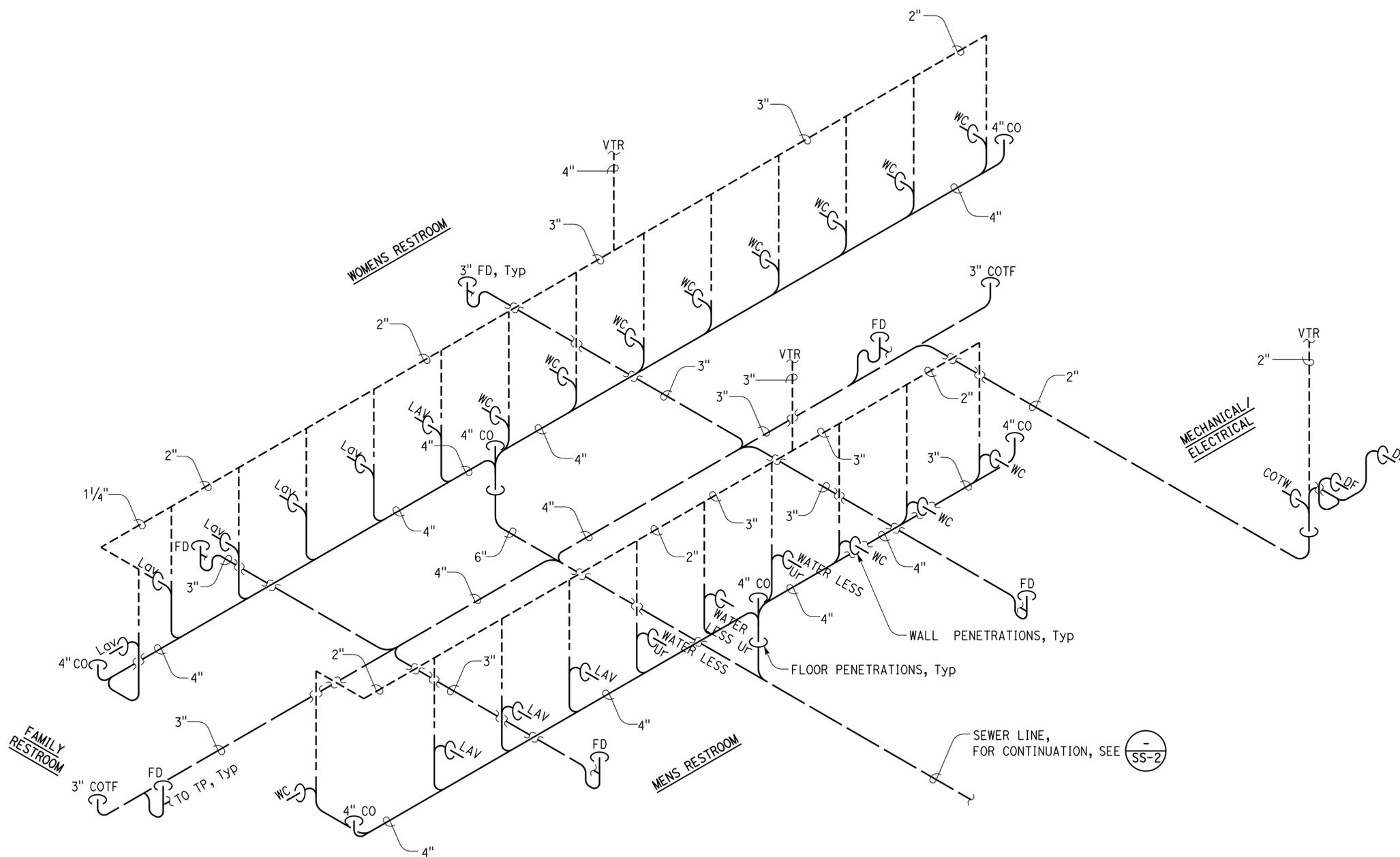


NOTES:

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- ALL FLOOR DRAINS TO HAVE TRAP PRIMERS.

OFFICE OF THE STATE FIRE MARSHAL  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	221	263
			06-13-16		
REGISTERED MECHANICAL ENGINEER			DATE		
			06-13-16		
			PLANS APPROVAL DATE		
					
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**SANITARY SEWER**  
 NO SCALE

APPROVED FOR MECHANICAL WORK ONLY

DESIGN	BY	Mark Hedglin	CHECKED	Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE No. 540004R/L POST MILE R107.3	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SANITARY SEWER-SCHEMATIC	SHEET <b>M2-4</b>	
	DETAILS	BY	Mark Hedglin	CHECKED					Seve Gutierrez
	QUANTITIES	BY	Mark Hedglin	CHECKED					Seve Gutierrez
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 08-16-13 08-14-13 08-14-13 10-15-13 11-20-13 2-04-16 06-13-16	SHEET OF

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 SFM No: 01-36-11-0066

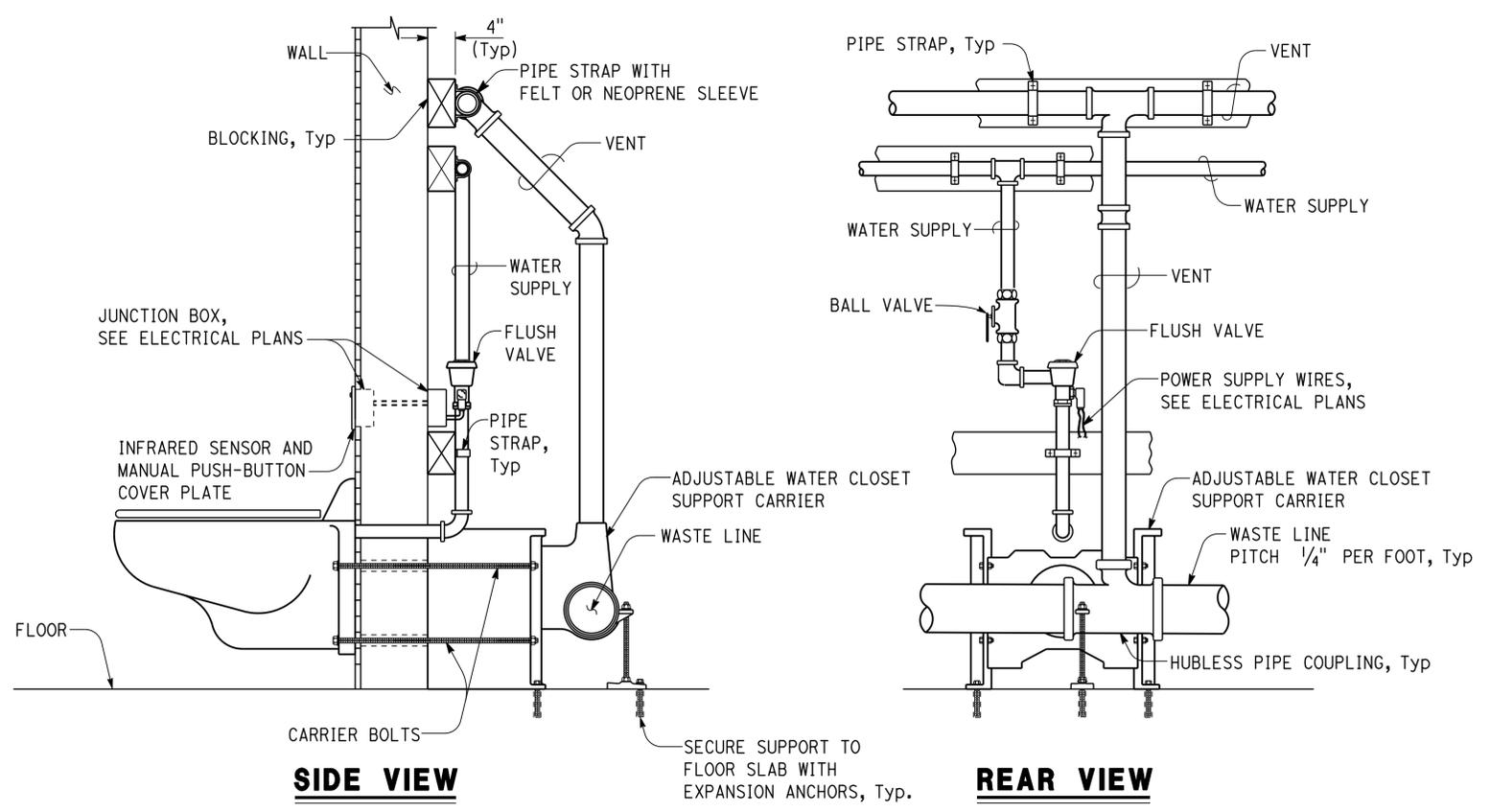
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	222	263

06-13-16  
 REGISTERED MECHANICAL ENGINEER DATE

06-13-16  
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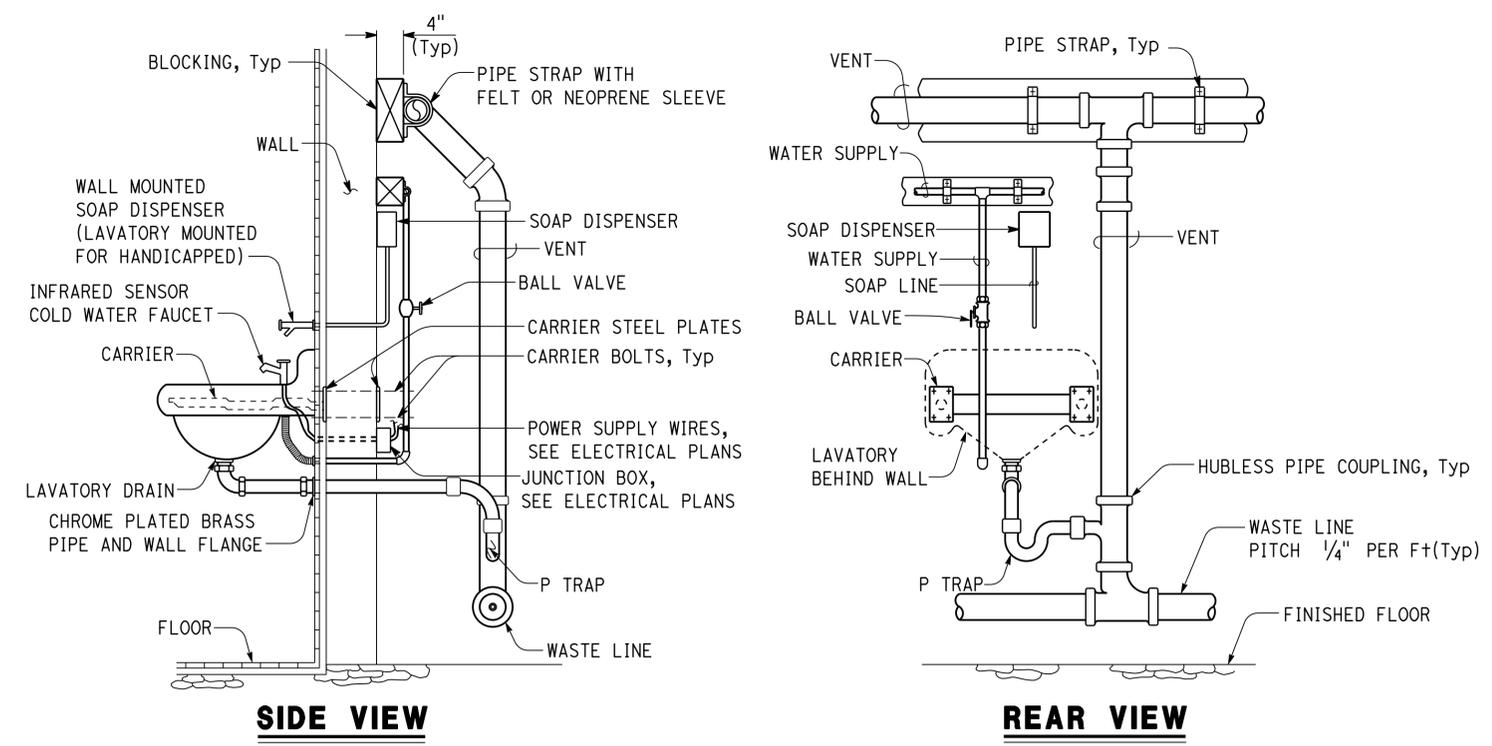
REGISTERED PROFESSIONAL ENGINEER  
 MARK HEDGLIN  
 No. M32912  
 Exp. 09-30-18  
 MECH  
 STATE OF CALIFORNIA



**SIDE VIEW**

**REAR VIEW**

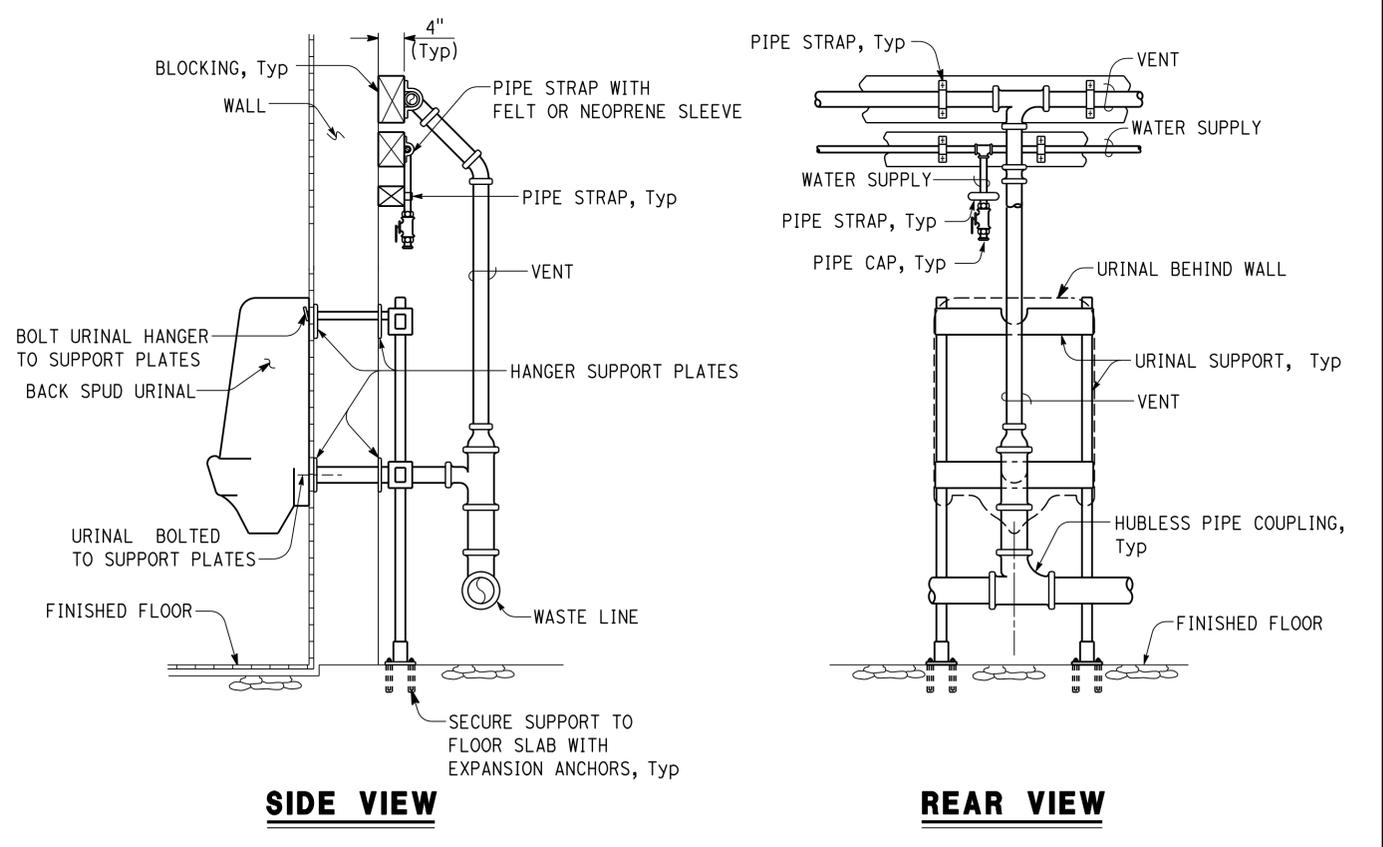
**1 WATER CLOSET ROUGH-IN DETAIL**  
 NO SCALE



**SIDE VIEW**

**REAR VIEW**

**2 LAVATORY ROUGH-IN DETAIL**  
 NO SCALE



**SIDE VIEW**

**REAR VIEW**

**3 WATERLESS URINAL ROUGH-IN DETAIL**  
 NO SCALE

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DESIGN BY Mark Hedglin CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION		SHEET OF <b>M3-1</b>
			POST MILE R107.3	PLUMBING/ROUGH-IN DETAILS		
DETAILS BY Mark Hedglin CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 08-16-13 08-14-15 10-15-15 11-20-15 2-04-16 06-13-16	
QUANTITIES BY Mark Hedglin CHECKED Seve Gutierrez						

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 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

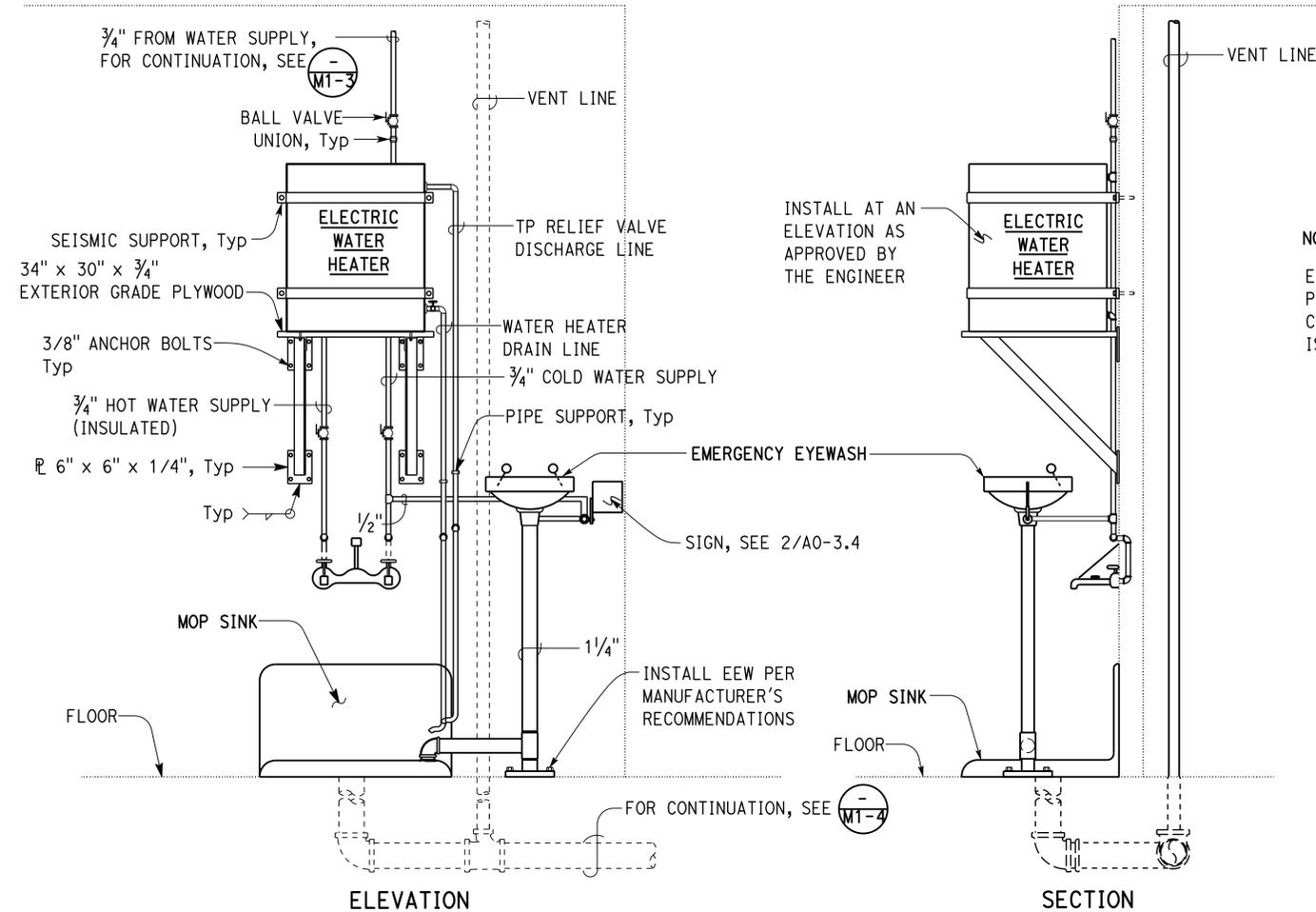
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	223	263

06-13-16  
 REGISTERED MECHANICAL ENGINEER DATE

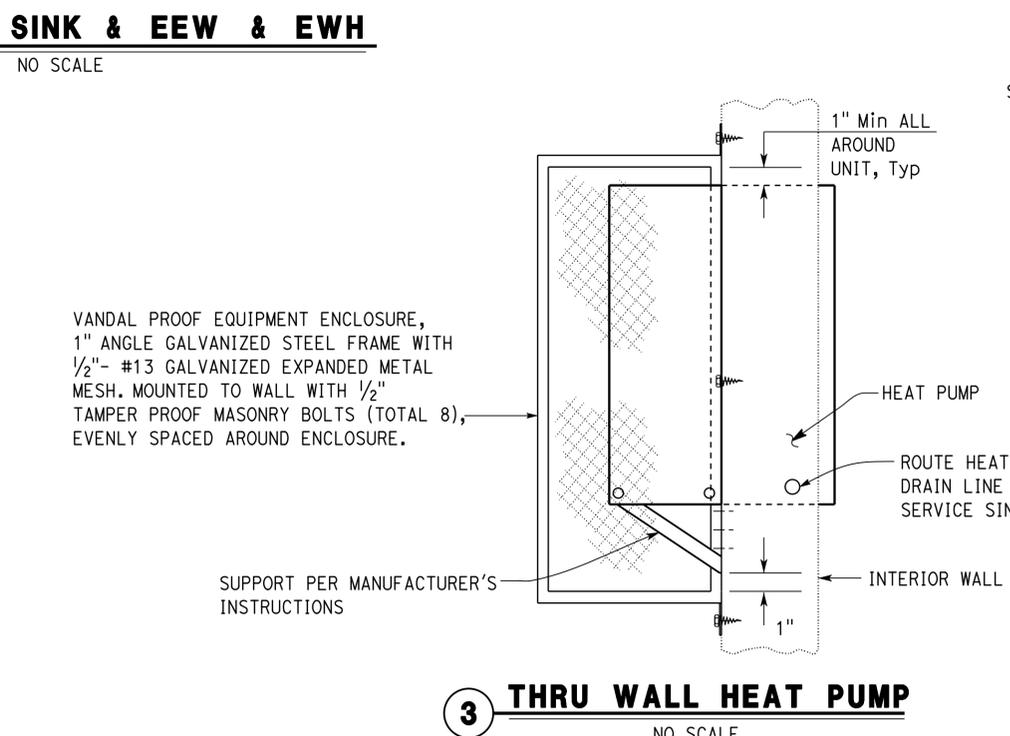
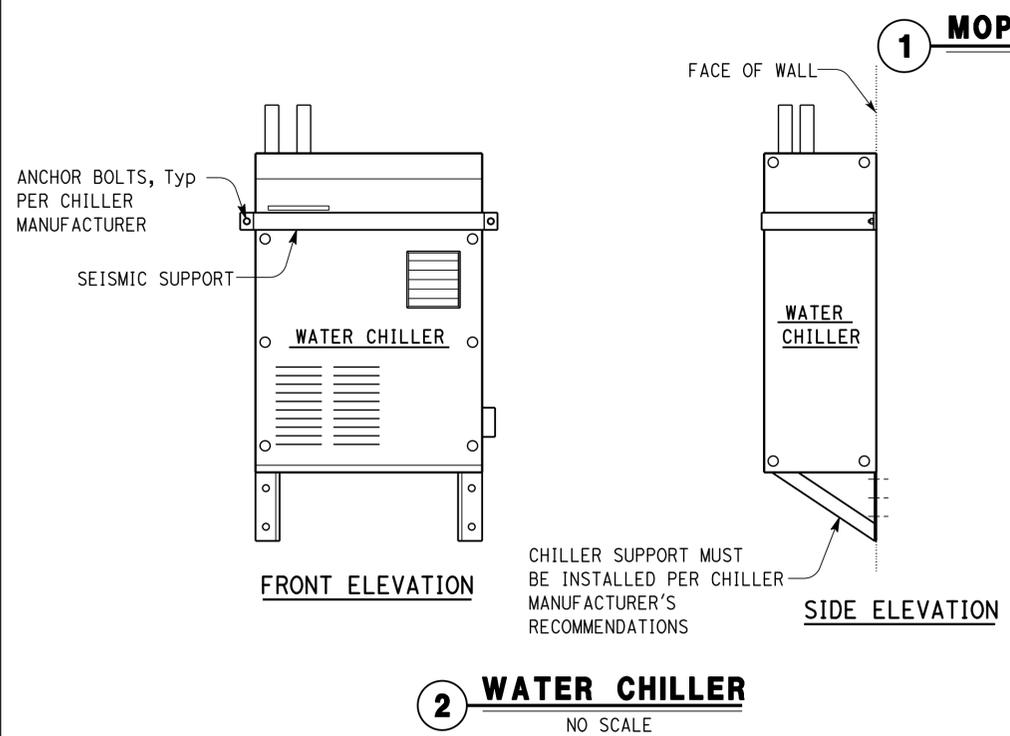
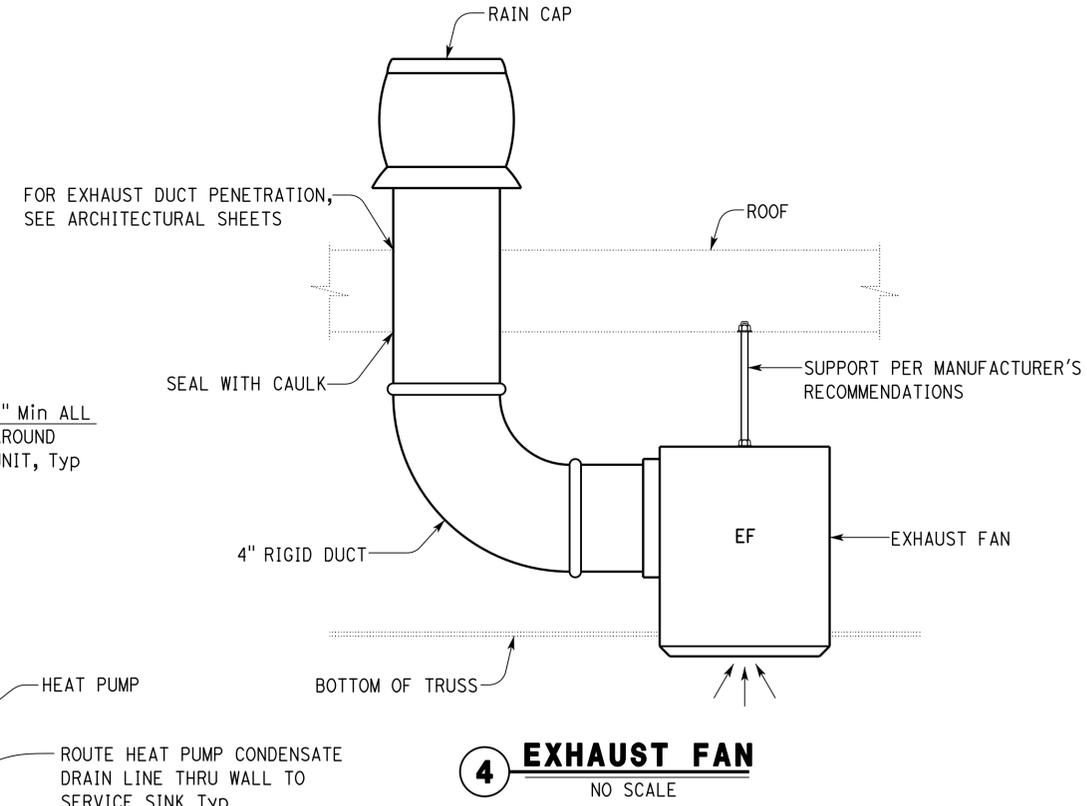
06-13-16  
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REGISTERED PROFESSIONAL ENGINEER  
 MARK HEDGLIN  
 No. M32912  
 Exp. 09-30-18  
 MECH  
 STATE OF CALIFORNIA



**NOTE:**  
 EYE WASH WATER MUST BE TEPID (60°-100 F)  
 PER ANSI Z358.1 AS REFERENCED IN  
 CPC 416.2. AREA GROUND TEMPERATURE  
 IS 67°-72° F.



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DESIGN BY Mark Hedglin CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION		SHEET M3-2
			POST MILE R107.3	MECHANICAL DETAILS		
DETAILS BY Mark Hedglin CHECKED Seve Gutierrez	UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY Mark Hedglin CHECKED Seve Gutierrez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		08-16-13 08-14-15 10-15-15 11-20-15 2-04-16 06-13-16			

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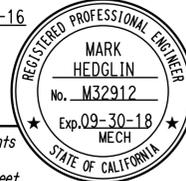
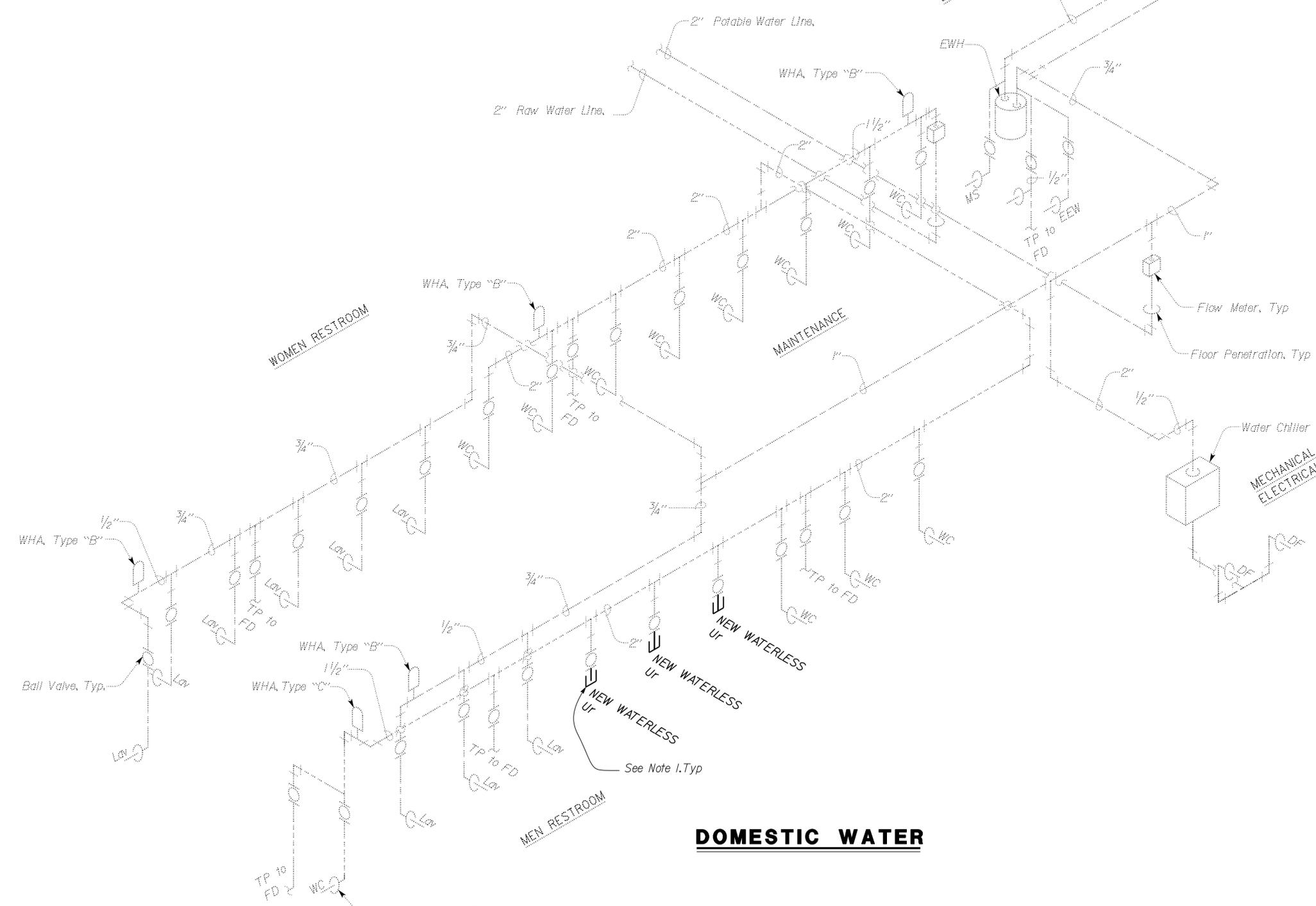
# PLUMBING SCHEDULE

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
URINAL	2"	-	1 1/2"	-	-

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 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	224	263

*Mark Hedglin* 06-13-16  
 REGISTERED MECHANICAL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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- Notes:
- Cut (E) Urinal water supply pipe and cap. Install new waterless Urinal. Connect to (E) waste and vent piping. Total 3 Comfort Station A

## DOMESTIC WATER

NO SCALE

APPROVED FOR MECHANICAL WORK ONLY

DESIGN BY Mark Hedglin CHECKED Seve Gutierrez		DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 540004R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> NORTH BOUND WATERLESS URINAL REPLACEMENT-SCHEMATIC	SHEET <b>M4-1</b> OF
			POST MILE R107.3		
			UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		

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

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
URINAL	2"	-	1 1/2"	-	-

OFFICE OF THE STATE FIRE MARSHAL  
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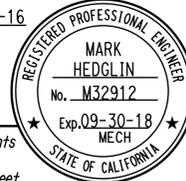
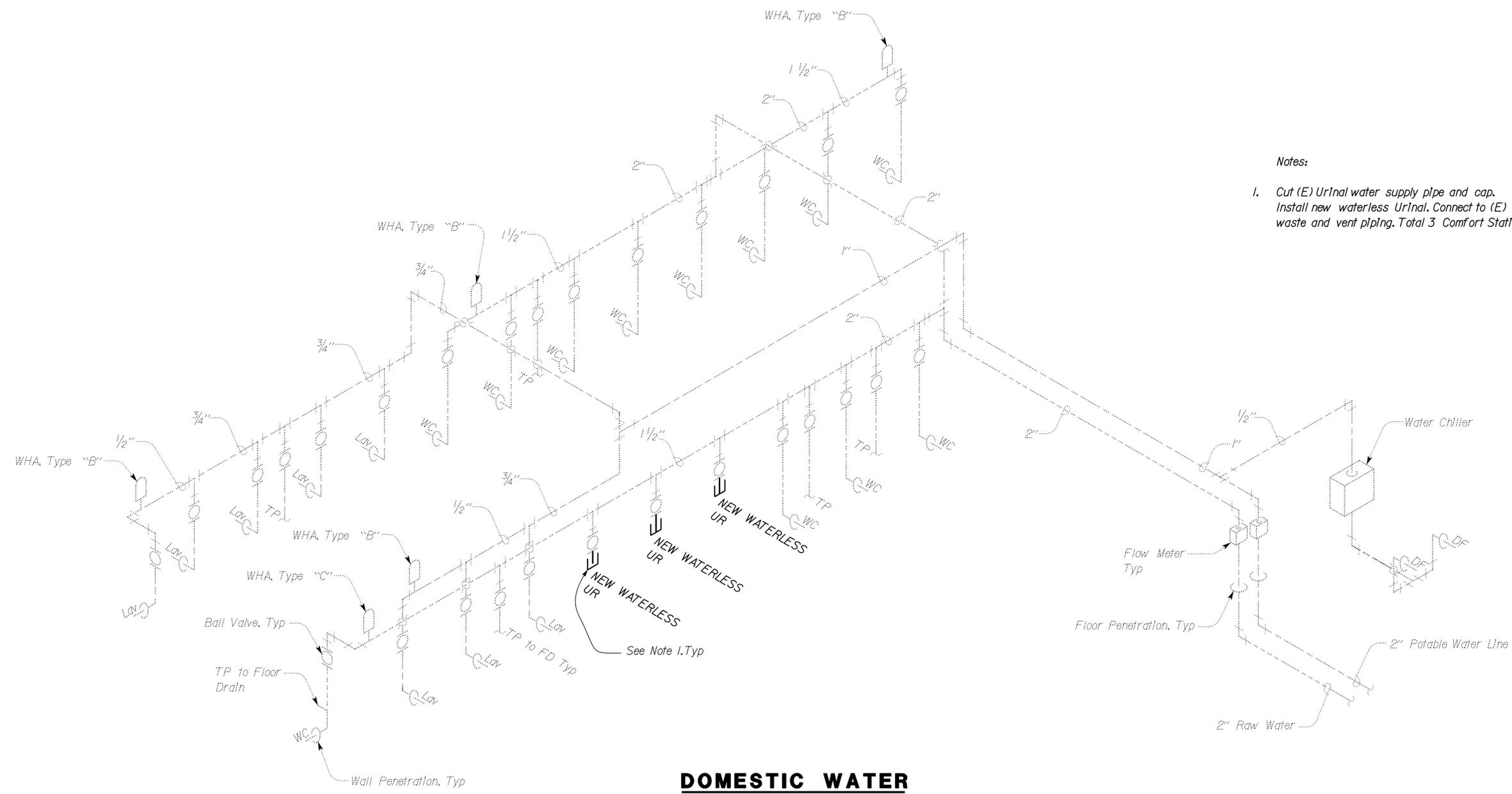
Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	225	263

06-13-16  
 REGISTERED MECHANICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

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- Notes:
- Cut (E) Urinal water supply pipe and cap. Install new waterless Urinal. Connect to (E) waste and vent piping. Total 3 Comfort Station B.

## DOMESTIC WATER

APPROVED FOR MECHANICAL WORK ONLY

DESIGN BY Mark Hedglin	CHECKED Seve Gutierrez	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> NORTH BOUND WATERLESS URINAL REPLACEMENT SCHEMATIC	SHEET M4-2 OF
DETAILS BY Mark Hedglin	CHECKED Seve Gutierrez			POST MILE R107.3		
QUANTITIES BY Mark Hedglin	CHECKED Seve Gutierrez			DISREGARD PRINTS BEARING EARLIER REVISION DATES		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

GENERAL NOTES:

- A. Existing underground electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Field verify exact location of existing underground facilities prior to the beginning of trenching and removal work.
- B. [AB] any additional site conduits not shown on the plans, (Southbound Rest Area only.)
- C. Unless otherwise noted, remove all pull boxes on the Southbound Rest Area only and fill the holes to match surrounding surfaces.
- D. For demolition of existing comfort station, and other structures on the Southbound Rest Area, see Architectural plans.
- E. For existing conduit system for Northbound Rest Area not shown here for clarity, see Plan sheets EE0-1.2, EE0-1.3 and As-Builts.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	226	263

6-13-16  
 Jaswinder S. Sandhu  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

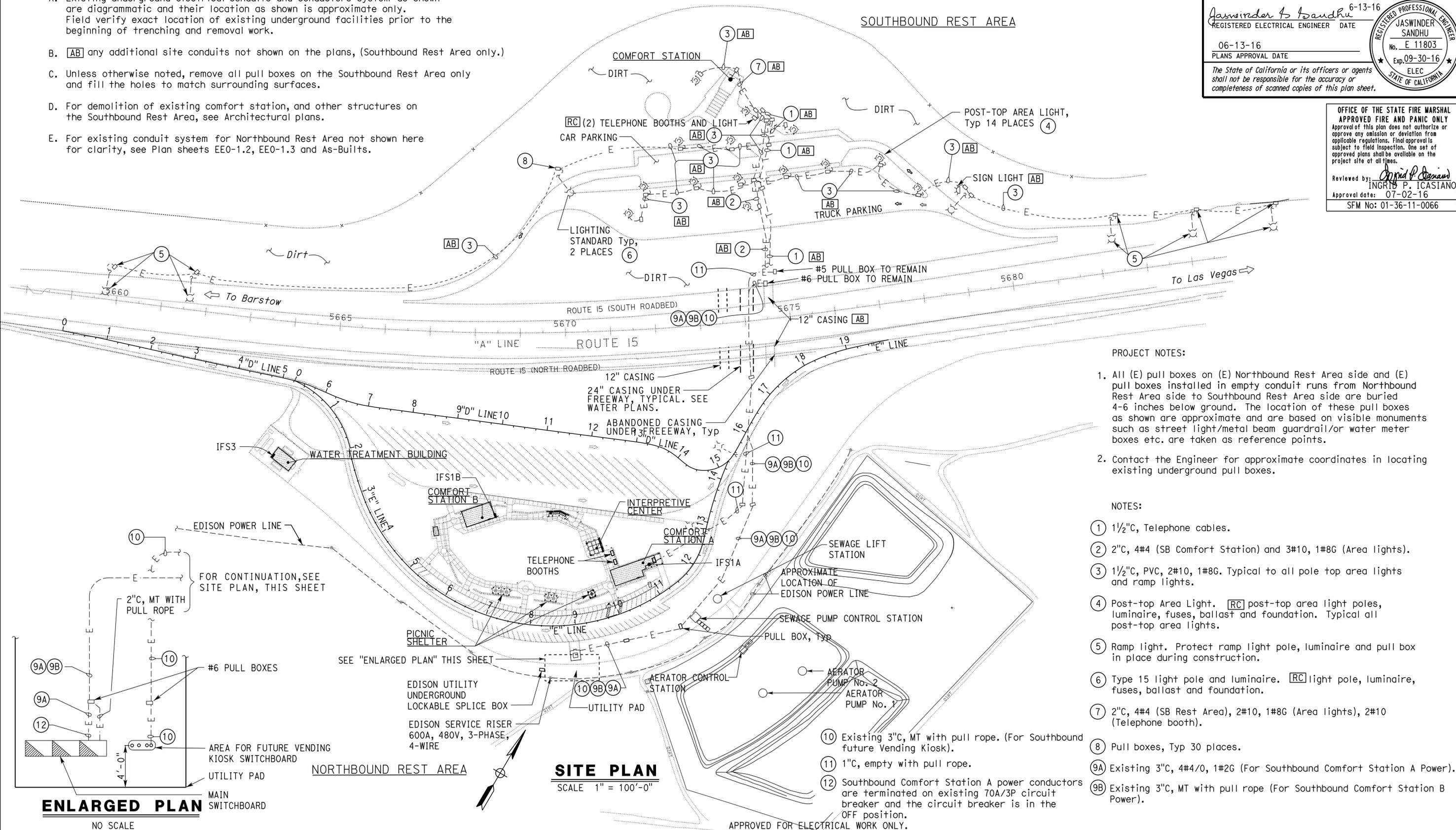
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REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

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 APPROVED FIRE AND PANIC ONLY

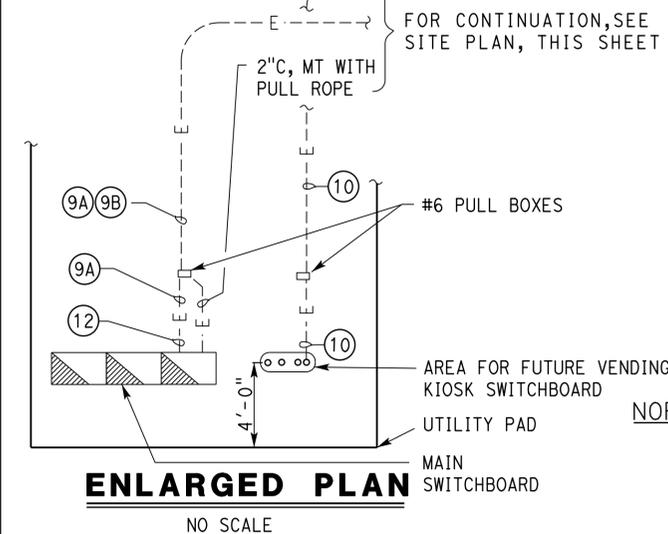
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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASTIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



- PROJECT NOTES:
- All (E) pull boxes on (E) Northbound Rest Area side and (E) pull boxes installed in empty conduit runs from Northbound Rest Area side to Southbound Rest Area side are buried 4-6 inches below ground. The location of these pull boxes as shown are approximate and are based on visible monuments such as street light/metal beam guardrail/or water meter boxes etc. are taken as reference points.
  - Contact the Engineer for approximate coordinates in locating existing underground pull boxes.

- NOTES:
- 1/2" C, Telephone cables.
  - 2" C, 4#4 (SB Comfort Station) and 3#10, 1#8G (Area lights).
  - 1/2" C, PVC, 2#10, 1#8G. Typical to all pole top area lights and ramp lights.
  - Post-top Area Light. [RC] post-top area light poles, luminaire, fuses, ballast and foundation. Typical all post-top area lights.
  - Ramp light. Protect ramp light pole, luminaire and pull box in place during construction.
  - Type 15 light pole and luminaire. [RC] light pole, luminaire, fuses, ballast and foundation.
  - 2" C, 4#4 (SB Rest Area), 2#10, 1#8G (Area lights), 2#10 (Telephone booth).
  - Pull boxes, Typ 30 places.
  - Existing 3" C, 4#4/0, 1#2G (For Southbound Comfort Station A Power).
  - Existing 3" C, MT with pull rope (For Southbound Comfort Station B Power).



**SITE PLAN**  
 SCALE 1" = 100'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR <i>Jaswinder S. Sandhu</i> DESIGN ENGINEER <i>Mark Chapp</i>	DESIGN	BY J. S. Sandhu	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L POST MILE R107.3	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION EXISTING SITE PLAN	SHEET <b>EE0-1.1</b>	
	DETAILS	BY Carol Christian/Y Sun	CHECKED J. S. Sandhu						
	QUANTITIES	BY J. S. Sandhu	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15   8-31-15   10-7-15   11-19-15   11-20-15   06-13-16	SHEET OF 1 28

TAEWW Imperial - CCSC Rev. 02/13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	227	263

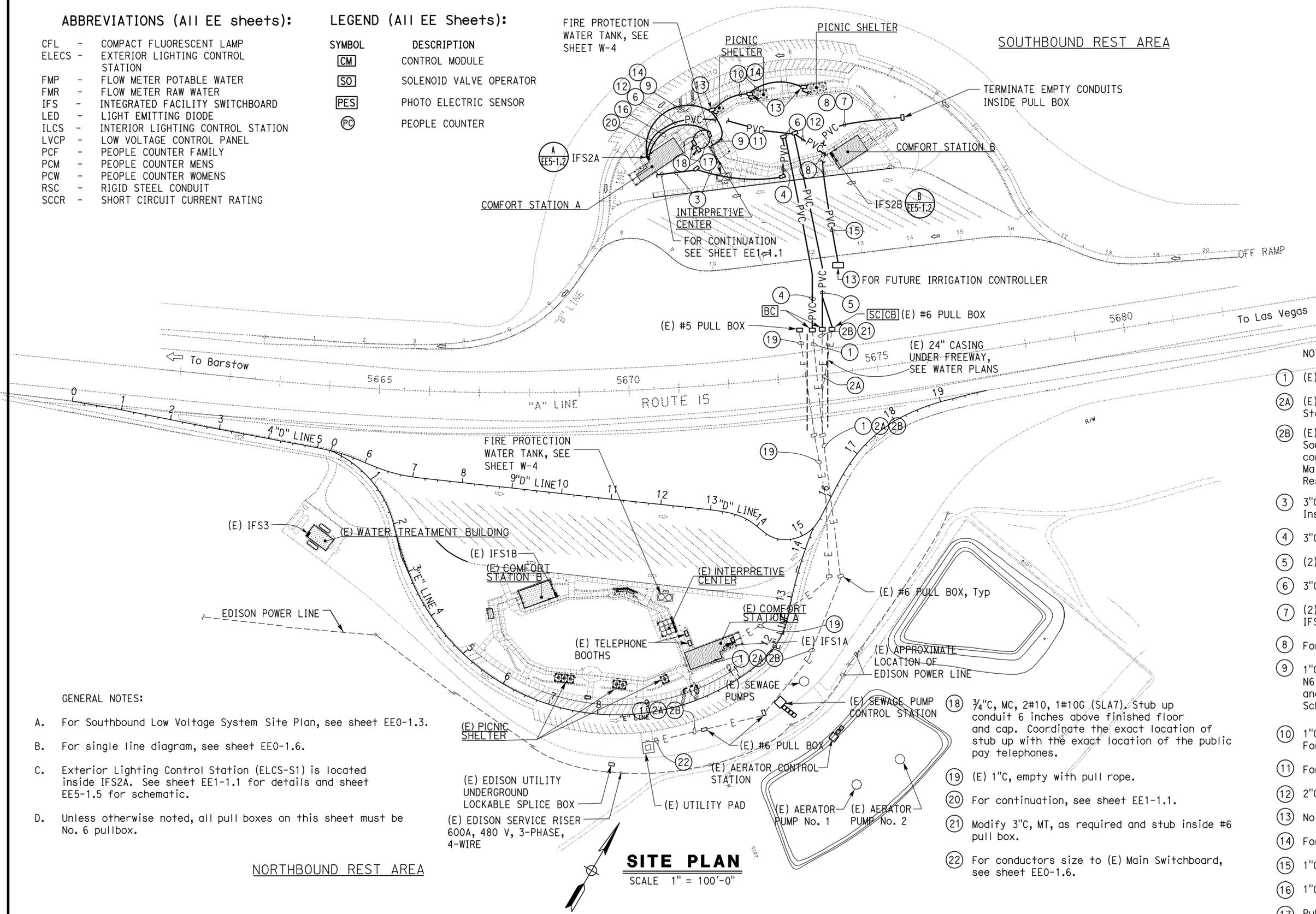
Jaswinder S Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

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Reviewed by: *Ingrid P. Icastano*  
 INGRID P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

- ABBREVIATIONS (All EE sheets):**
- CFL - COMPACT FLUORESCENT LAMP
  - ELECS - EXTERIOR LIGHTING CONTROL STATION
  - FMP - FLOW METER POTABLE WATER
  - FMR - FLOW METER RAW WATER
  - IFS - INTEGRATED FACILITY SWITCHBOARD
  - LED - LIGHT EMITTING DIODE
  - ILCS - INTERIOR LIGHTING CONTROL STATION
  - LVCP - LOW VOLTAGE CONTROL PANEL
  - PCF - PEOPLE COUNTER FAMILY
  - PCM - PEOPLE COUNTER MENS
  - PCW - PEOPLE COUNTER WOMENS
  - RSC - RIGID STEEL CONDUIT
  - SCCR - SHORT CIRCUIT CURRENT RATING
- LEGEND (All EE Sheets):**
- | SYMBOL | DESCRIPTION             |
|--------|-------------------------|
| CM     | CONTROL MODULE          |
| SO     | SOLENOID VALVE OPERATOR |
| PES    | PHOTO ELECTRIC SENSOR   |
| PC     | PEOPLE COUNTER          |



- NOTES:**
- 1 (E) 3"C, empty with pull rope (future vending kiosk).
  - 2A (E) 3"C, 4#4/0, 1 #2G for Southbound Comfort Station A Power.
  - 2B (E) 3"C, MT with pull rope. Install 4#4/0, 1#2G for Southbound Comfort Station B Fire and terminate conductors on existing 70A/3P circuit breaker inside Main Switchboard at the utility pad at the Northbound Rest Area.
  - 3 3"C, MT with pull rope. Terminate the conduit inside the Mechanical/Electrical room.
  - 4 3"C, MT with pull rope (future vending kiosk).
  - 5 (2) 3"C, each with 4#4/0, 1#2G.
  - 6 3"C, 4#4/0, 1#2G, 2"C, MT.
  - 7 (2) 2"C, MT with pull rope (spare conduit to IFS2B).
  - 8 For continuation, see sheet EE2-1.1.
  - 9 1"C PVC, 2#10, 1#10G (Conductor numbers are L61 and N6) and 2#10, 1#10G (Conductor numbers are L110 and N10) to ELCS-S1 inside IFS2A. For lighting Schematic, see sheet EE5-1.5.
  - 10 1"C, 2#8, 1#10G (Conductor numbers are L61 and N6). For continuation, see sheet EE5-1.5.
  - 11 For continuation, see sheet EE4-1.1.
  - 12 2"C, MT with pull ropes.
  - 13 No. 5 pull box.
  - 14 For Continuation, see sheet EE3-1.1.
  - 15 1"C, MT for future irrigation controller.
  - 16 1"C, MC, 2#10, 1#10G (SLA 7) for public pay telephones.
  - 17 Public pay telephone.

- GENERAL NOTES:**
- A. For Southbound Low Voltage System Site Plan, see sheet EE0-1.3.
  - B. For single line diagram, see sheet EE0-1.6.
  - C. Exterior Lighting Control Station (ELCS-S1) is located inside IFS2A. See sheet EE1-1.1 for details and sheet EE5-1.5 for schematic.
  - D. Unless otherwise noted, all pull boxes on this sheet must be No. 6 pullbox.

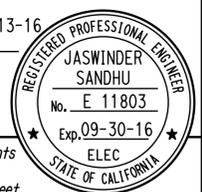
**SITE PLAN**  
 SCALE 1" = 100'-0"

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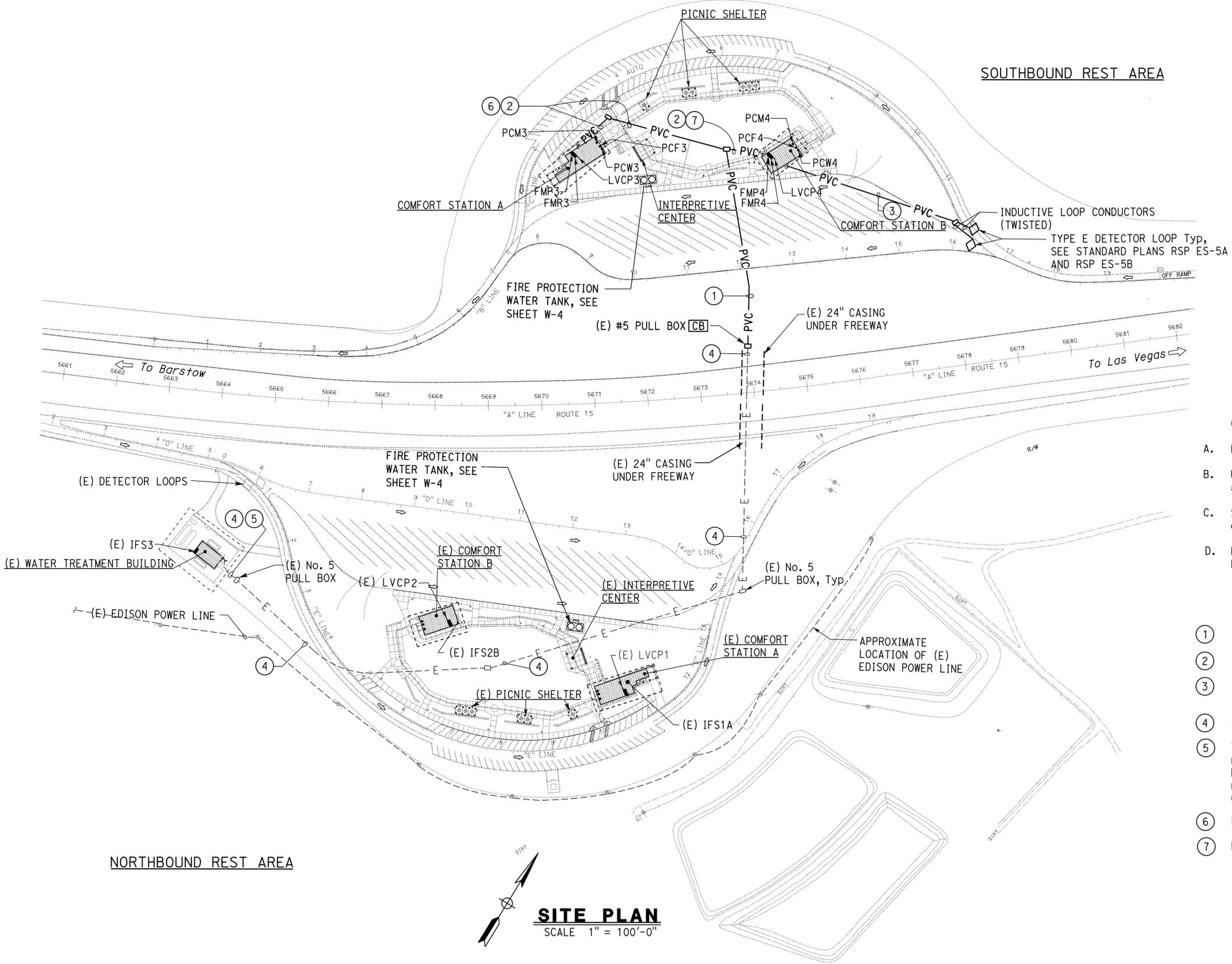
DESIGN BY J. S. Sandhu	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	SHEET <b>EE0-1.2</b>
				POST MILE R107.3	
DETAILS BY Carol Christian/Y Sun	CHECKED J. S. Sandhu	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 2 28
QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16	P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expedit\ee0_1.21.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	228	263

Jaswinder Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
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 PLANS APPROVAL DATE  
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 Reviewed by: Ingrid P. Icastano  
 INGRID P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



- GENERAL NOTES:
- A. For Southbound modified Power Site Plan, see sheet EE0-1.2.
  - B. Unless otherwise noted, all pull boxes shown on this sheet must be No. 5 pull boxes.
  - C. See sheet EE1-4.1, EE2-4.1 for low voltage one-line diagram.
  - D. For location of (E) buried pull boxes, refer to Project Notes on Plan sheet EE0-1.1.

- NOTES:
- ① 1" C, 1 fiber optic communication cable.
  - ② 1" C, 2 fiber optic communication cable.
  - ③ 1 1/2" C, 2 loop detector lead-in cables to the LVCP4 inside the Comfort Station B.
  - ④ (E) 1" C. Install 1 fiber optic communication cable.
  - ⑤ Terminate fiber optic communication cables on (E) main PLC cabinet inside (E) water treatment building. Reprogram the existing PLC program as specified to monitor all data from the Southbound Low Voltage Control panels.
  - ⑥ Fiber optic communication cables to LVCP3.
  - ⑦ Fiber optic communication cable to LVCP4.

**SITE PLAN**  
 SCALE 1" = 100'-0"

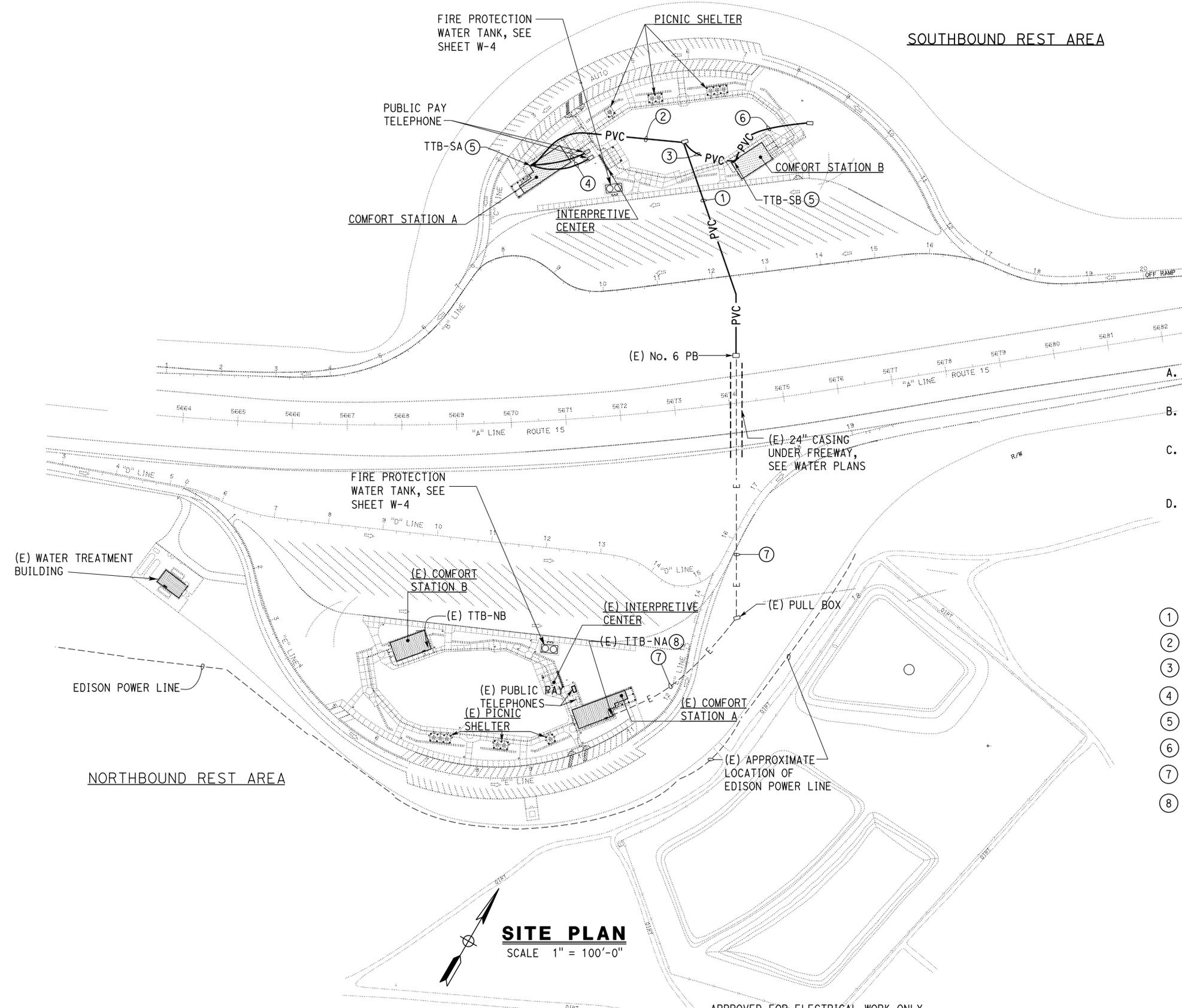
APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION MODIFIED LOW VOLTAGE SITE PLAN	SHEET EE0-1.3
				POST MILE R107.3		
DETAILS BY Carol Christian/Y Sun CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 12-13-16	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	229	263

Jaswinder Sandhu 06-13-16  
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Reviewed by: *Ingrid P. Casiano*  
INGRID P. CASIANO  
Approval date: 07-02-16  
SFM No: 01-36-11-0066



- GENERAL NOTES:**
- A. For communication plans inside the comfort stations, see sheet EE1-1.4.
  - B. For location of (E) buried pull boxes, refer to Project Notes on Plan sheet EE0-1.1.
  - C. Coordinate stub-out of telephone conduits at the public pay phones with the appropriate devices being installed.
  - D. Unless otherwise noted, all pull boxes shown on this sheet must be No. 5 pull boxes.
- NOTES:**
- ① 2"C, PVC, 25-pair telephone cable.
  - ② 2"C, PVC, 25-pair telephone cable, 12-pair telephone cable.
  - ③ 2"C, PVC, 12-pair telephone cable.
  - ④ 3/4"C, MC, with pull rope to public pay telephones.
  - ⑤ Terminate all telephone cables on Type 110 punch down blocks.
  - ⑥ 2"C, MT with pull rope.
  - ⑦ (E) 2"C, install 25-pair telephone cable.
  - ⑧ Terminate telephone cables on (E) customer side Type 110 punch down black.

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DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	BRIDGE No. 54R0004L POST MILE R107.3	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> MODIFIED COMMUNICATION SITE PLAN	SHEET <b>EE0-1.4</b>	
	DETAILS	BY	Carol Christian/Y Sun	CHECKED				J. S. Sandhu
	QUANTITIES	BY	J. S. Sandhu	CHECKED				Jaswinder Gill
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15   8-31-15   10-7-15   11-18-15   11-20-15   06-13-16	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			SHEET OF 4 28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	230	263

06-13-16  
*Jaswinder Sandhu*  
 REGISTERED ELECTRICAL ENGINEER DATE  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

06-13-16  
 PLANS APPROVAL DATE

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NOTES:

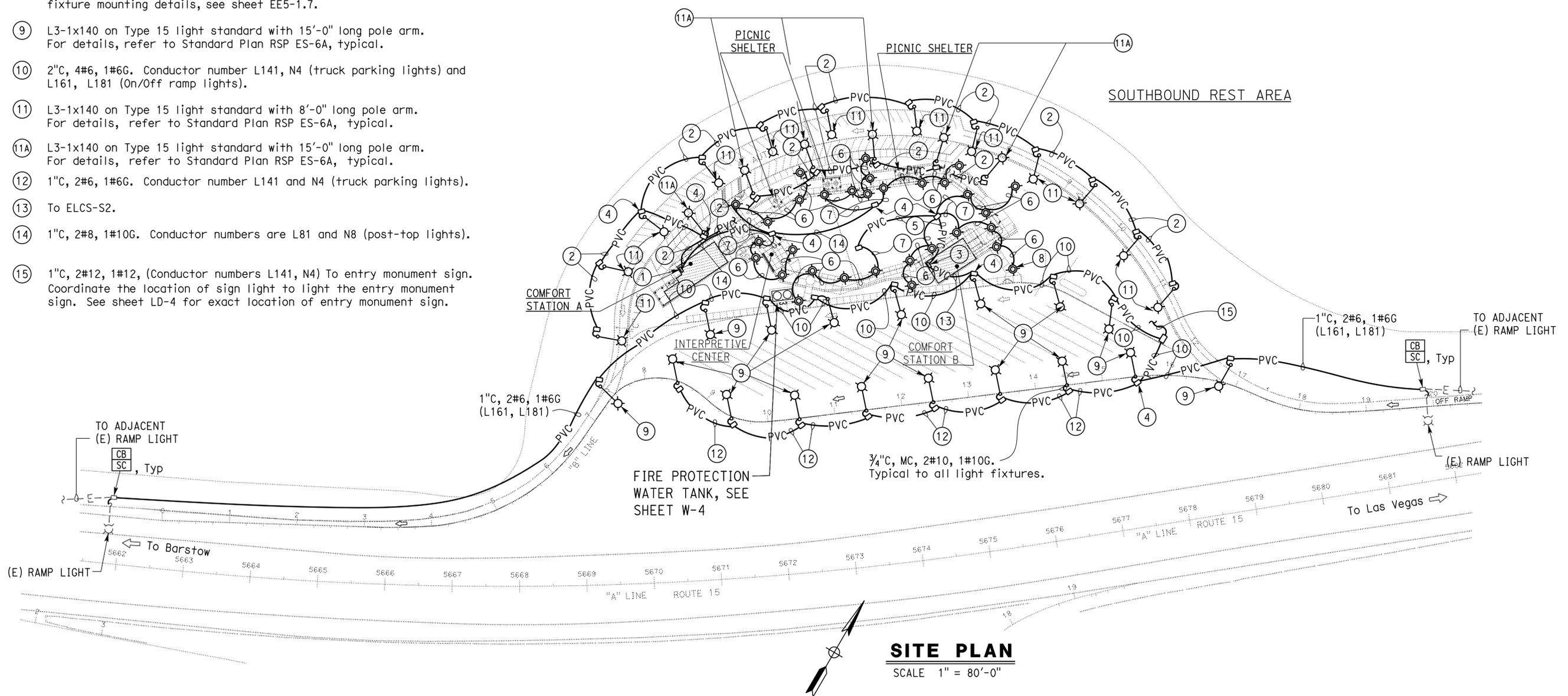
- ① Exterior Lighting Control Station-S1(ELCS-S1) inside IFS2A. See sheet EE1-1.1 for location and sheet EE5-1.5 for Schematic Diagram.
- ② 1"C, 2#6, 1#6G, (Conductor number L41 and N4 car parking lights)to ELCS-S1.
- ③ Exterior Lighting Control Station-S2 (ELCS-S2) inside IFS2B. See sheet EE2-1.1 for location and sheet EE5-1.5 for Schematic Diagram.
- ④ No. 6 pull box.
- ⑤ 1"C, 2#8, 1#10G, (Conductor numbers are L101, N10 post-top lights), to ELCS-S2.
- ⑥ 3/4"C, PVC, 2#10, 1#10G to adjacent post-top light fixture.
- ⑦ 3/4"C, PVC, 2#10, 1#10G to the post-top light fixtures. Install 5A fuse as specified for this string of lights inside the pull box.
- ⑧ MH1-1x100, post-top light fixture. Typical 31 places. For fixture mounting details, see sheet EE5-1.7.
- ⑨ L3-1x140 on Type 15 light standard with 15'-0" long pole arm. For details, refer to Standard Plan RSP ES-6A, typical.
- ⑩ 2"C, 4#6, 1#6G. Conductor number L141, N4 (+truck parking lights) and L161, L181 (On/Off ramp lights).
- ⑪ L3-1x140 on Type 15 light standard with 8'-0" long pole arm. For details, refer to Standard Plan RSP ES-6A, typical.
- ⑪A L3-1x140 on Type 15 light standard with 15'-0" long pole arm. For details, refer to Standard Plan RSP ES-6A, typical.
- ⑫ 1"C, 2#6, 1#6G. Conductor number L141 and N4 (truck parking lights).
- ⑬ To ELCS-S2.
- ⑭ 1"C, 2#8, 1#10G. Conductor numbers are L81 and N8 (post-top lights).
- ⑮ 1"C, 2#12, 1#12, (Conductor numbers L141, N4) To entry monument sign. Coordinate the location of sign light to light the entry monument sign. See sheet LD-4 for exact location of entry monument sign.

GENERAL NOTES:

- A. Unless otherwise noted, all pull boxes on this sheet shall be No. 5 pull box.
- B. For building mounted lights, see lighting plans.

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Reviewed by: *Ingrit P. Casiano*  
 INGRIT P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



**SITE PLAN**  
 SCALE 1" = 80'-0"

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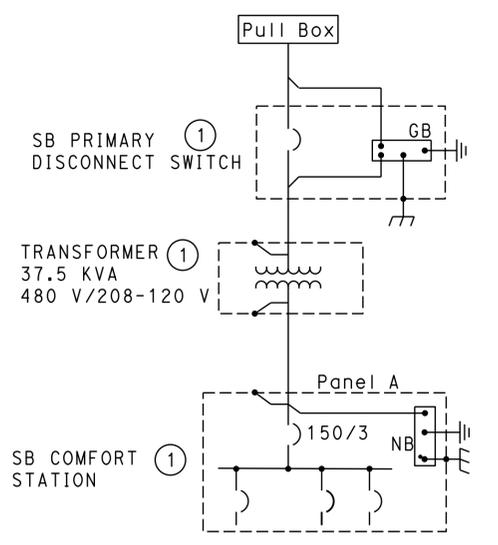
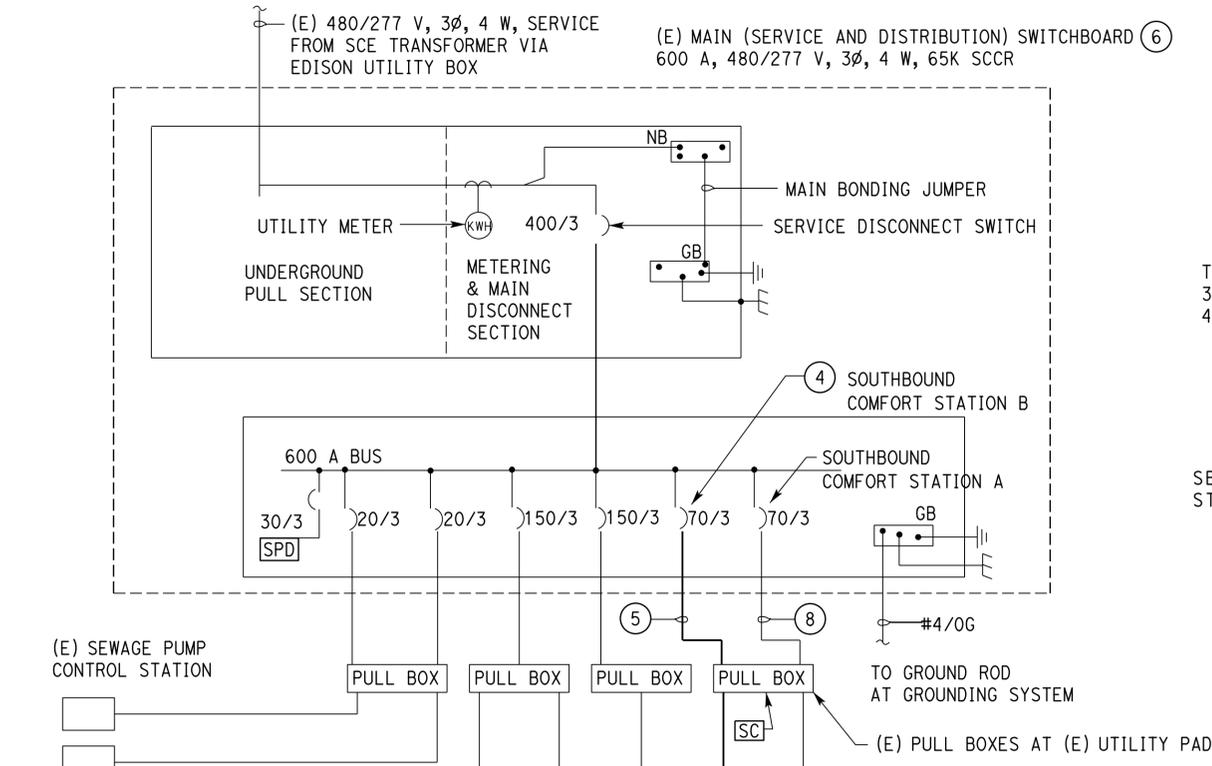
DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	BRIDGE No. 54R0004L	POST MILE R107.3	SHEET <b>EE-1.5</b>	
	DETAILS	BY	Carol Christian/Y Sun	CHECKED				J. S. Sandhu
	QUANTITIES	BY	J. S. Sandhu	CHECKED				Jaswinder Gill
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION AREA LIGHTING PLAN	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			SHEET OF 5 28
DISREGARD PRINTS BEARING EARLIER REVISION DATES							REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial - CCSC Rev. 02/13							8-14-15 8-31-15 10-7-15 11-18-15 12-20-15 06-13-16	

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	231	263

06-13-16  
**Jaswinder Sandhu**  
 REGISTERED ELECTRICAL ENGINEER DATE  
 No. E 11803  
 Exp. 09-30-16  
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06-13-16  
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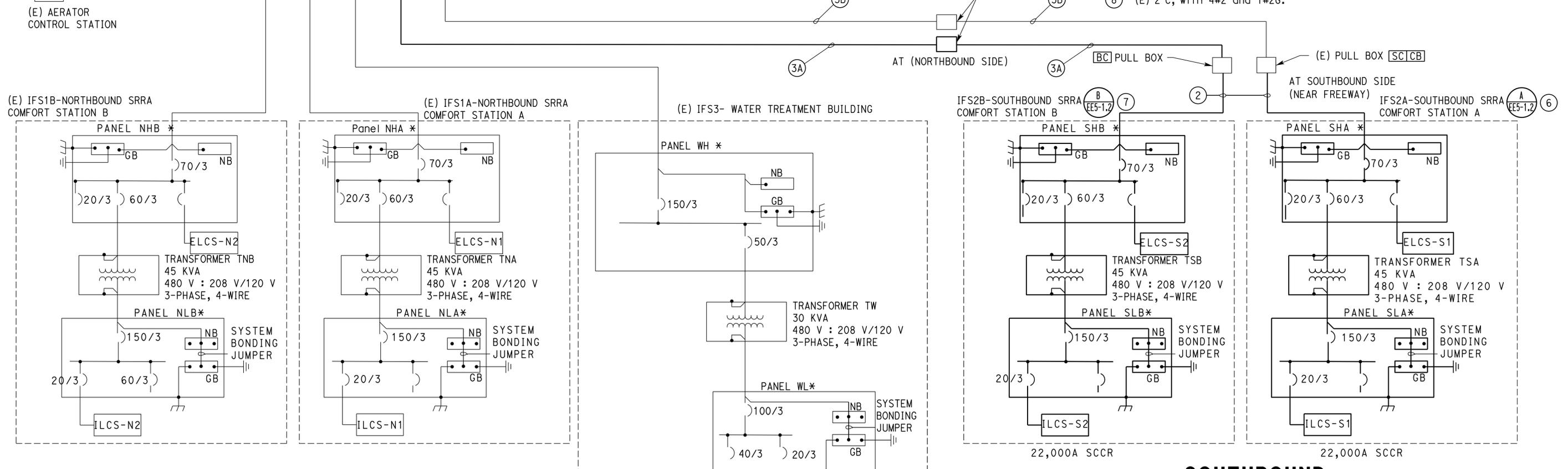


**SOUTHBOUND EXISTING SINGLE LINE DIAGRAM**  
 (THIS DIAGRAM IS FOR INFORMATION ONLY)

- GENERAL NOTES:
- A. All panels must have minimum 18 K SCCR unless otherwise noted.
  - B. All of the pull boxes are not shown. See site plans for pull boxes.
  - C. Spare conduits are not shown.

- NOTES:
- ① Remove Panels, Transformers Primary Disconnect Switches and miscellaneous electrical equipment inside the rest areas. For demolition, see Architectural plans.
  - ② 3"C, 4#4/0, 1#2/0G.
  - ③A (E) 3"C, install 4#4/0, 1#2/0G.
  - ③B (E) 3"C, 4#4/0, 1#2/0G.
  - ④ Terminate conductors on (E) circuit breakers and (E) neutral bus and terminate #2G on the (E) ground bus.
  - ⑤ (E) 2"C, install 4#2 and 1#2G.
  - ⑥ For Panel Schedule, see EE1-3.1.
  - ⑦ For Panel Schedule, see EE2-3.1.
  - ⑧ (E) 2"C, with 4#2 and 1#2G.

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 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



**NORTHBOUND EXISTING SINGLE LINE DIAGRAM**

**SOUTHBOUND SINGLE LINE DIAGRAM**

\* Not all circuit breakers are shown. See "Panel Schedule" sheets.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY Carol Christian/Y Sun CHECKED J. S. Sandhu	BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION MODIFIED SINGLE LINE DIAGRAM	SHEET EE-1.6	
					POST MILE R107.3			SHEET OF 6 28
					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY)		P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expedit\ee0_1.61.dgn				

NOTES:

- ① To pull box. For continuation, see sheet EE0-1.2.
- ② - 3"C. 4#4/0, 1#2G.  
- 2"C, MT with pull rope.
- ③ For continuation, see sheet EE0-1.4.
- ④ 2"C PVC, (1) 25-pair, and (1) 12-pair telephone cables.
- ⑤ 3/4"C, 1#2G. Bond to interior cold water pipe and structural steel.
- ⑥ 3/4"C, 1#2G to ground bus inside IFS2A.
- ⑦ 3/4"C, 1#2G to ground bar.
- ⑧ 1"C, 2#10, 1#10G to Picnic Shelter lights and Interpretive Center lights, (Conductor numbers are L61 and N6) and 2#10, 1#10G to display lights at Interpretive Center, (Conductor numbers are L110, N10).

- ⑨ For schematic diagram, see sheet EE5-1.3.
- ⑩ For schematic diagram, see sheet EE5-1.5.
- ⑪ Not used.
- ⑫ (2) 3/4"C, MT with pull rope to public pay telephones.
- ⑬ 8' x 8' x 3/4" exterior grade plywood. Paint plywood on both sides prior to the installation.
- ⑭ 3"C, empty with pull rope, cap conduit 6-inch above floor. For continuation See Plan sheet EE0-1.2.
- ⑮ Not used.
- ⑯ Not used.
- ⑰ Not used.
- ⑱ 1"C, 2#10, 1#10G power for public pay telephones.

- ⑲ Not used.
- ⑳ To pull box. For continuation, see sheet EE0-1.3.
- ㉑ 1"C, 2 fiber optic communication cables.
- ㉒ To pull box. For continuation, see sheet EE0-1.5.
- ㉓ 1"C, 2#6, 1#6G to Car parking lights. Conductor numbers are L41 and N4.
- ㉔ 1"C, 2#8, 1#10G for Post-top walkway lights. Conductor numbers are L81 and N8.

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 Reviewed by: *David P. Casiano*  
 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

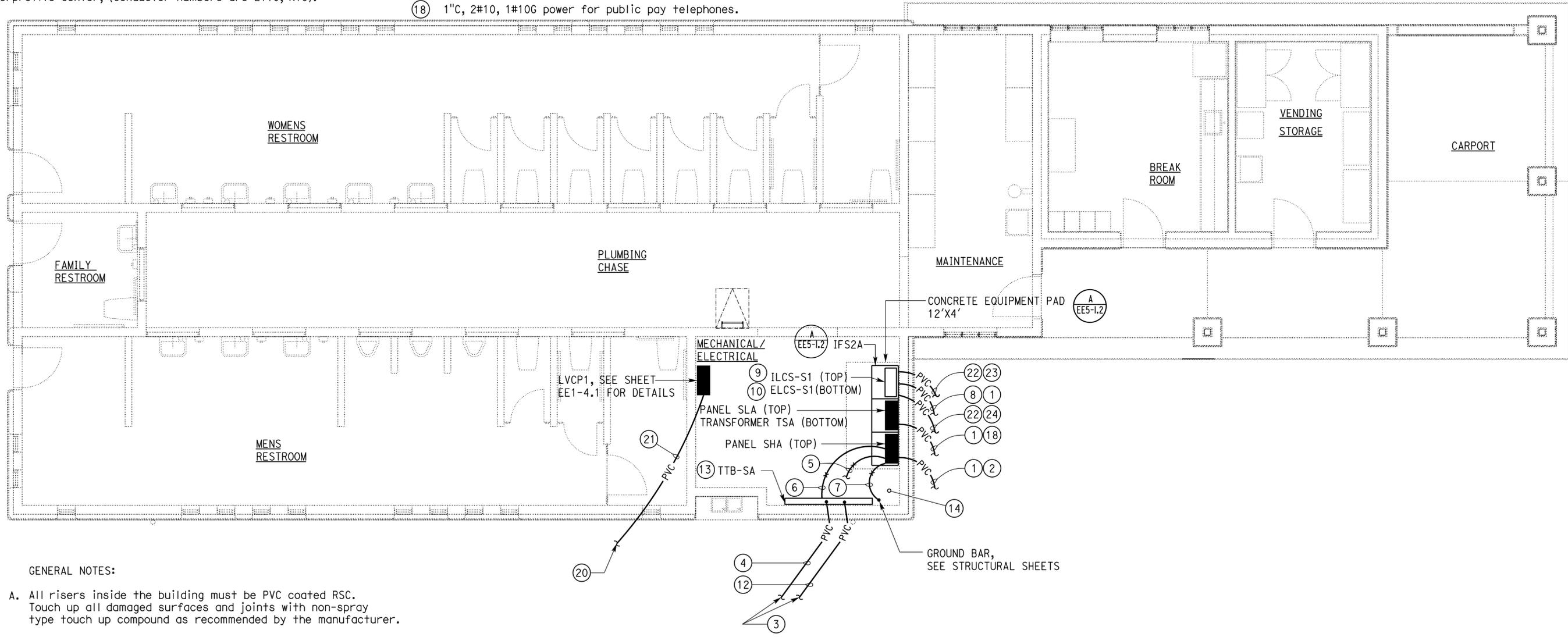
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08	SbD	15	R107.3	232	263

06-13-16  
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*Jaswinder Sandhu* 06-13-16  
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REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
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GENERAL NOTES:

- A. All risers inside the building must be PVC coated RSC. Touch up all damaged surfaces and joints with non-spray type touch up compound as recommended by the manufacturer.
- B. For Panel Schedules, see sheet EE1-3.1.
- C. All conduits terminated at the TTBSA must be terminated 2' above the finished floor. All empty conduits must be capped.

**PLAN**  
 SCALE 1/4"=1'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET EE1-1.1	
					POST MILE R107.3			SOUTHBOUND COMFORT STATION A
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15 8-31-15 10-7-15 11-18-15 12-15-15 06-13-16			SHEET 7 OF 28

GENERAL NOTES:

- A. Coordinate installation of junction boxes and electrical equipments inside plumbing chase with the Mechanical Contractor.
- B. Do not install junction box and electrical equipment behind pipes at the plumbing chase. Provide 6" clearance from any mechanical pipes.
- C. Unless otherwise noted, conduit shown concealed in floor must be 3/4"C, 2#12, 1#12G.
- D. All risers inside the building must be PVC coated RSC. Touch up all damaged surfaces and joints with a non-spray type touch up compound as recommended by the manufacturer.
- E. For exact location of heat pump units, water heater and exhaust fans, see Mechanical plans.

F. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1 1/2 inches of spacing.

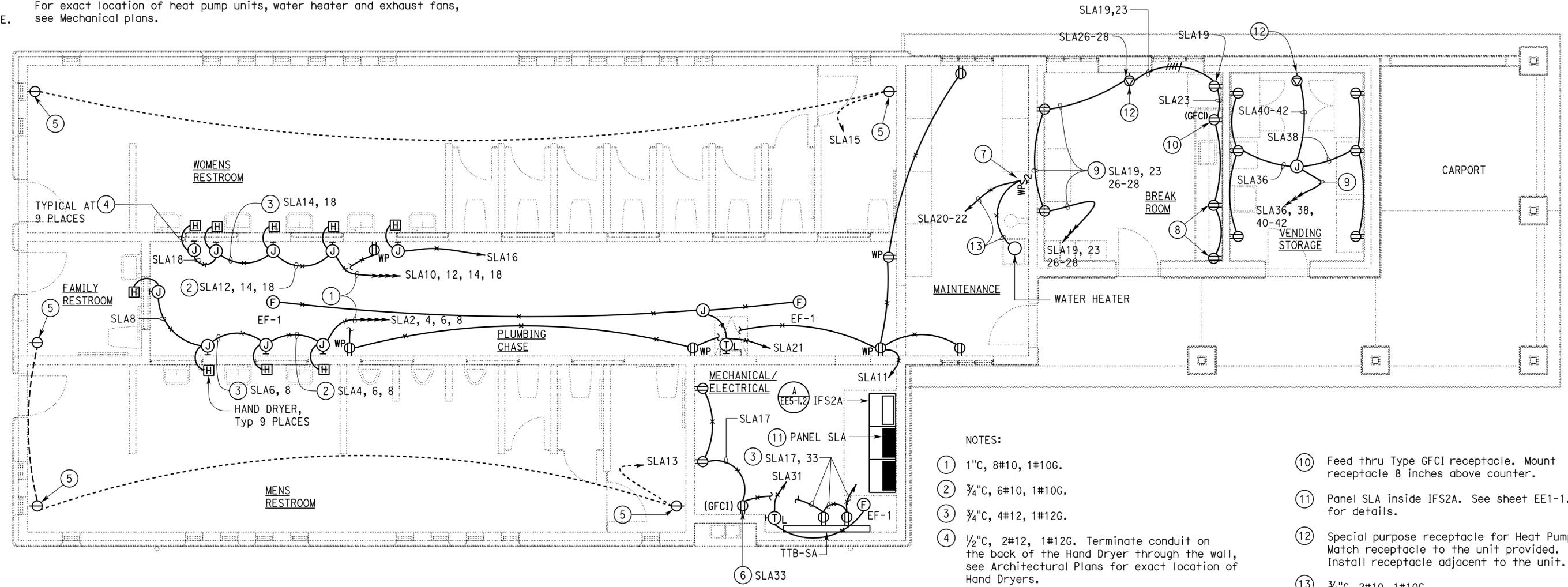
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 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	233	263

06-13-16  
 Registered Electrical Engineer DATE  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

Reviewed by: *Jaswinder Sandhu*  
 JASWINDER SANDHU  
 Registered Electrical Engineer DATE  
 06-13-16  
 PLANS APPROVAL DATE

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- NOTES:
- ① 1"C, 8#10, 1#10G.
  - ② 3/4"C, 6#10, 1#10G.
  - ③ 3/4"C, 4#12, 1#12G.
  - ④ 1/2"C, 2#12, 1#12G. Terminate conduit on the back of the Hand Dryer through the wall, see Architectural Plans for exact location of Hand Dryers.
  - ⑤ Flush mounted single receptacle with steel locking cover. Mount at 2' above finished floor.
  - ⑥ Mount receptacle to suit electric water chiller.
  - ⑦ Water heater disconnect.
  - ⑧ Mount receptacles 8 inches above counter.
  - ⑨ 3/4"C, 6#12, 1#12G.
  - ⑩ Feed thru Type GFCI receptacle. Mount receptacle 8 inches above counter.
  - ⑪ Panel SLA inside IFS2A. See sheet EE1-1.1 for details.
  - ⑫ Special purpose receptacle for Heat Pump Unit. Match receptacle to the unit provided. Install receptacle adjacent to the unit.
  - ⑬ 3/4"C, 2#10, 1#10G.

**PLAN**  
 SCALE 1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L POST MILE R107.3	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION SOUTHBOUND COMFORT STATION A POWER PLAN	SHEET OF EE-1.2 8 OF 28

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	234	263

06-13-16  
*Jaswinder Sandhu*  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

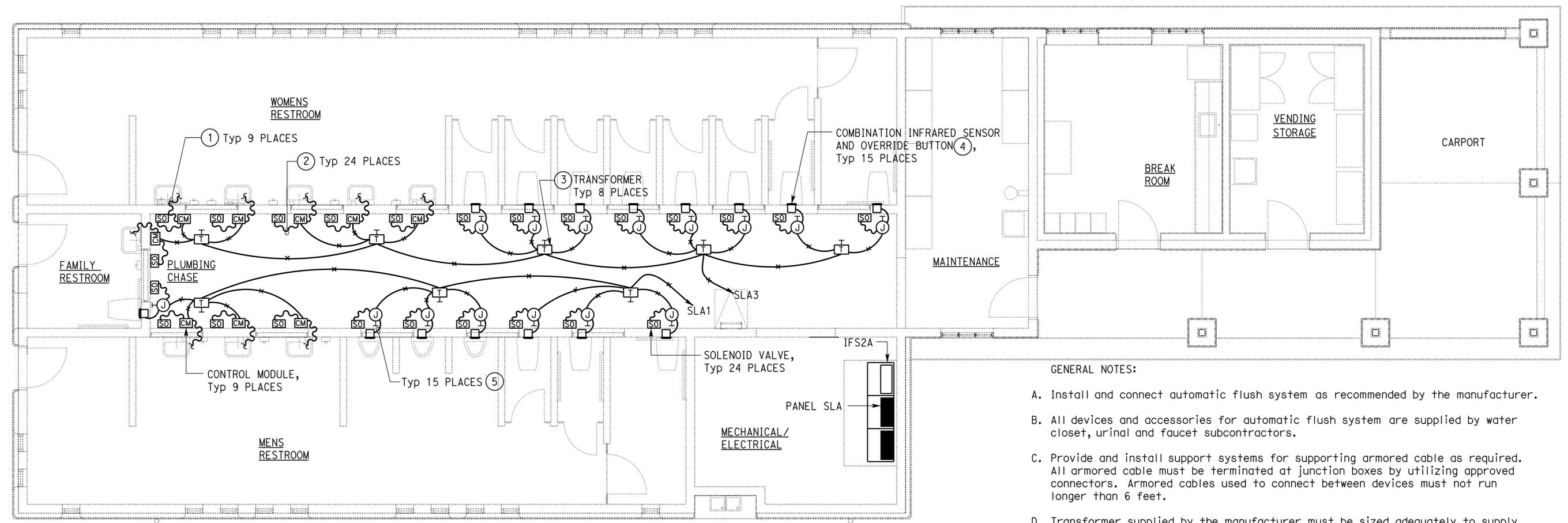
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REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
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 STATE OF CALIFORNIA

OFFICE OF THE STATE FIRE MARSHAL  
**APPROVED FIRE AND PANIC ONLY**  
 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: 07-02-16  
 SFM No: 01-36-11-0066

- NOTES:
- 1 Armored cable to infrared sensor at the faucet. Install armored cable through PVC sleeve.
  - 2 Armored cable to solenoid valve operator.
  - 3 Provide and install all hardware as required for the installation of the low voltage transformer. Mount transformer inside a surface mounted enclosure at 12 inches above the highest horizontal mechanical pipe.
  - 4 Mount combination infrared sensor and override button in a flush mounted junction box at location as shown on the Architectural plans.
  - 5 1/2" C, conductors as required for the operation of the combination infrared sensor and override button.



- GENERAL NOTES:
- Install and connect automatic flush system as recommended by the manufacturer.
  - All devices and accessories for automatic flush system are supplied by water closet, urinal and faucet subcontractors.
  - Provide and install support systems for supporting armored cable as required. All armored cable must be terminated at junction boxes by utilizing approved connectors. Armored cables used to connect between devices must not run longer than 6 feet.
  - Transformer supplied by the manufacturer must be sized adequately to supply minimum of 3 units. Contractor has the option of installing one transformer per unit at no extra cost to the State.
  - Conduits and conductor system as shown is diagrammatic only. Exact system layout must depend upon the particular automatic flush system installed.
  - Built-in infrared sensors at the lavatory faucets are not shown for clarity.
  - For details and schematic diagrams, see sheet EE5-1.1.
  - All the low voltage conductors must be installed inside conduits, as shown on the plans.
  - Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

**PLAN**  
 SCALE 1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND COMFORT STATION A <b>AUTOMATIC FLUSH SYSTEM</b>	SHEET <b>EE1-1.3</b> OF 28	
					POST MILE R107.3			REVISION DATES (PRELIMINARY STAGE ONLY)
					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	235	263

06-13-16  
*Jaswinder S Sandhu*  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

*Ingrid P. Icasiano*  
 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

06-13-16  
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 No. E 11803  
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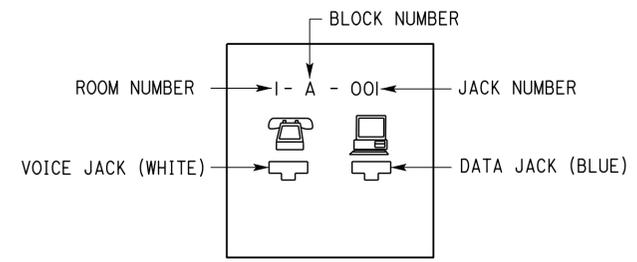
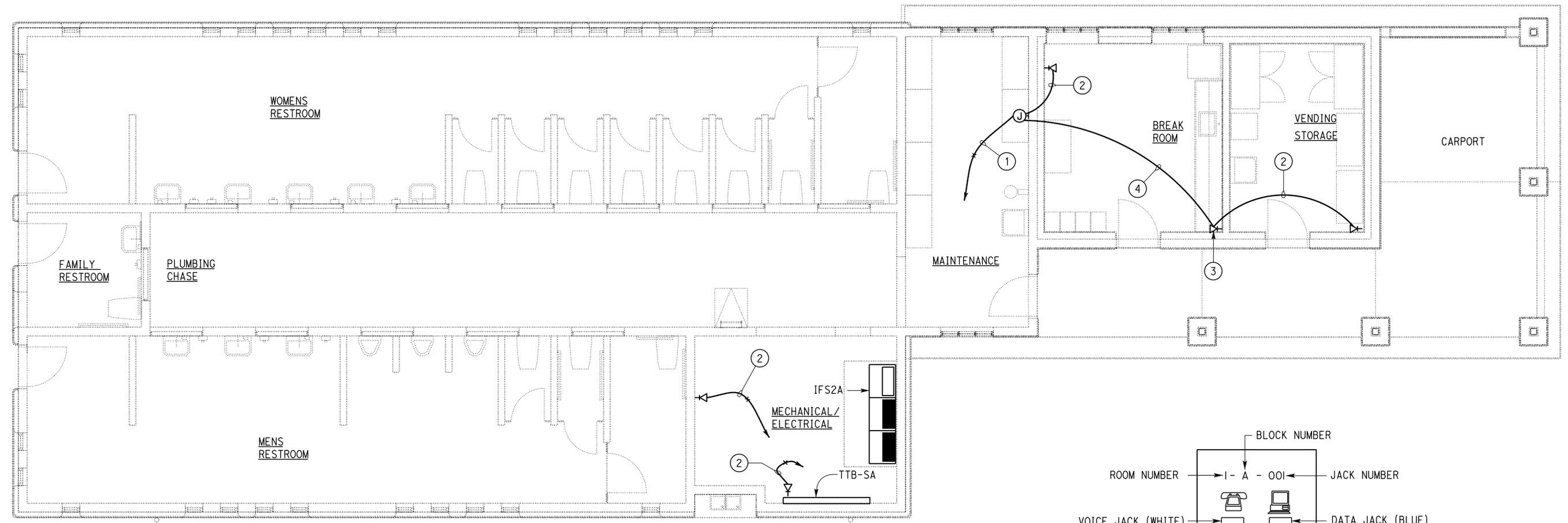
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GENERAL NOTES:

- A. Unless otherwise noted, all home runs on this sheet must be to TTB-SA. Telephone cables and Data cables must be terminated at the type 110 (Category 6) punch down blocks.
- B. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

NOTES:

- ① 1"C, 3 Telephone cables, 3 Data cables.
- ② 3/4"C, 1 Telephone cable, 1 Data cable.
- ③ Mount communication outlet 8" above the counter.
- ④ 1"C, 2 Telephone Cables, 2 Data cables.



**PLAN**  
 SCALE 1/4" = 1'-0"

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DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION SOUTHBOUND COMFORT STATION A	SHEET EE1-1.4
					POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 10 28

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	236	263

06-13-16  
*Jaswinder Sandhu*  
 REGISTERED ELECTRICAL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE

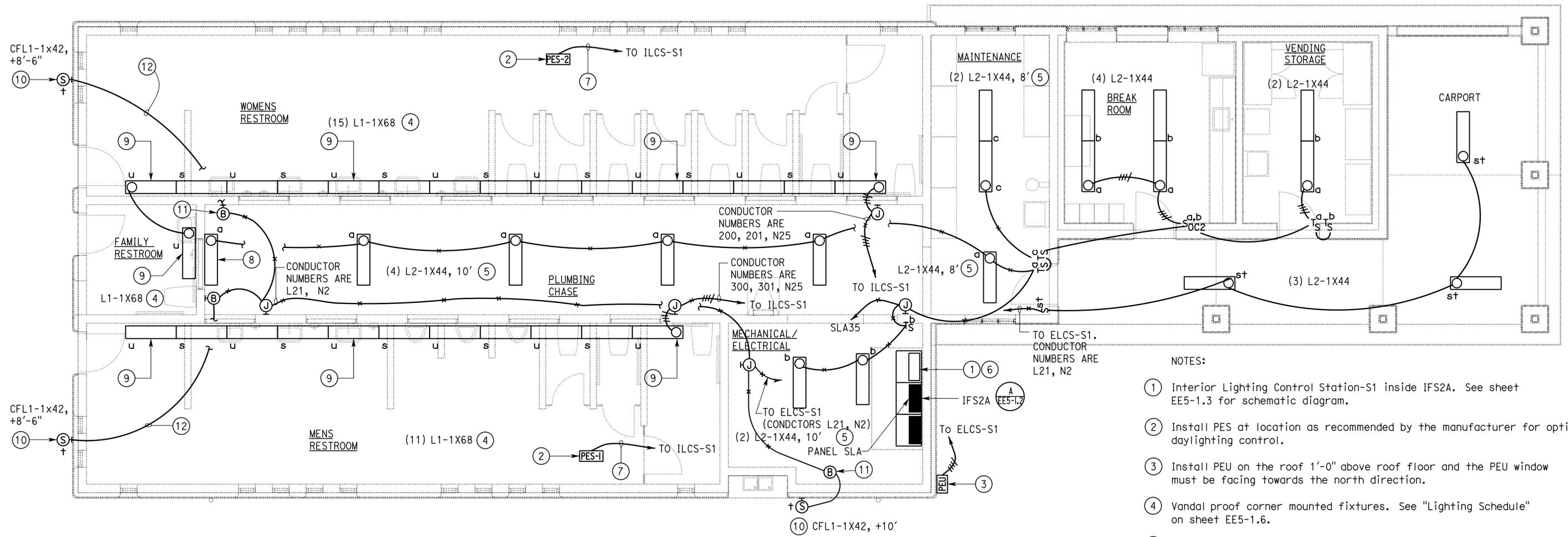
REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

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- GENERAL NOTES:
- A. For exact location of lighting fixtures, see Architectural plans.
  - B. All conduits shown routed through the Restrooms must be a concealed conduit system through ceiling.
  - C. For Lighting Fixtures Schedule, see sheet EE5-1.6.
  - D. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



- NOTES:
- ① Interior Lighting Control Station-S1 inside IFS2A. See sheet EE5-1.3 for schematic diagram.
  - ② Install PES at location as recommended by the manufacturer for optimal daylighting control.
  - ③ Install PEU on the roof 1'-0" above roof floor and the PEU window must be facing towards the north direction.
  - ④ Vandal proof corner mounted fixtures. See "Lighting Schedule" on sheet EE5-1.6.
  - ⑤ Support fixtures on structural framing. See Structural sheets for location of structural framing.
  - ⑥ Exterior Lighting Control Station-S1 inside IFS2A. See sheet EE5-1.5 for schematic diagram.
  - ⑦ 1/2"C, control cables as required.
  - ⑧ L2-1X44, 10'. Wall mounted fixture.
  - ⑨ Fixture with emergency LED driver. Mount emergency LED driver inside the fixture to energize one LED lamp for 90 minutes in case of power failure.
  - ⑩ For fixture mounting detail, see detail 4 on sheet EE5-1.7.

**PLAN**  
 SCALE 1/4" = 1'-0"

- ⑪ Remote ballast for exterior light fixtures (CFL1-1x42). Install ballast inside a junction box. Typical for all exterior lights.
- ⑫ 1/2"C, 2#10, 1#10G. Terminate conduit at an octagon concrete junction box. See fixture mounting detail 4 on sheet EE5-1.7.

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DESIGN BY J. S. Sandhu	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION INTERIOR AND EXTERIOR LIGHTING PLAN	SHEET EE1-2.1
				POST MILE R107.3		
DETAILS BY Carol Christian/Y Sun	CHECKED J. S. Sandhu	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 11 28
QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		8-14-15, 8-31-15, 10-7-15, 11-19-15, 11-20-15, 06-13-16		

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	237	263

Jaswinder Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
 No. E 11803  
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 STATE OF CALIFORNIA

06-13-16  
 PLANS APPROVAL DATE

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MAIN: 150 AMPERE, 3 POLE CB  
 VOLTS: 120/208 V, 3 PHASE, 4 WIRE

FEEDER SIZE: 4\*2/0, 1\*8G  
 LOCATION: INSIDE IFS2A-COMFORT A-Mech/Elect ROOM

PANEL SLA  
 18K SCCR

DESCRIPTION	AMPERES			Brk	Ckt	A B C			Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C			A	B	C			A	B	C	
AUTOFLUSH SYSTEM-MENS	2			20/1	1				2	20/1**	13			HAND DRYER-MENS RESTROOM
AUTOFLUSH SYSTEM-WOMENS		2		20/1	3				4	20/1**		13		HAND DRYER-MENS RESTROOM
DISPLAY LIGHTS AT INTERPRETIVE CENTER			1	20/1	5				6	20/1**			13	HAND DRYER-MENS RESTROOM
TELEPHONE BOOTHS	1			20/1	7				8	20/1**	13			HAND DRYER-FAMILY RESTROOM
LOW VOLTAGE CONTROL PANEL 3		1		20/1	9				10	20/1**		13		HAND DRYER-WOMENS RESTROOM
RECEPTACLES- PLUMBING CHASE			10.5	20/1*	11				12	20/1**			13	HAND DRYER-WOMENS RESTROOM
RECEPTACLE-MENS & FAMILY RESTROOM	1.5			20/1*	13				14	20/1**	13			HAND DRYER-WOMENS RESTROOM
RECEPTACLES-WOMENS RESTROOM		1.5		20/1*	15				16	20/1**		13		HAND DRYER-WOMENS RESTROOM
RECEPTACLES-Mech/Elect ROOM			6	20/1*	17				18	20/1**			13	HAND DRYER-WOMENS RESTROOM
RECEPTACLES BREAK ROOM	4.5			20/1*	19				20	30/2	12			HOT WATER HEATER MAINTENANCE
EXHAUST FAN- PLUMBING CHASE		4		20/1	21				22			12		
RECEPTACLES- BREAK ROOM COUNTER			4.5	20/1*	23				24	20/1			1	FLOW METER CONVERTER
INTERIOR LIGHTING CONTROL STATION-SI (ILCS-SI)	1				25				26	20/2	4			HEAT PUMP BREAK ROOM
		9		20/3	27				28			4		
			7		29				30	20/1			-	SPARE
EXHAUST FAN-Mech/Elect ROOM	2			20/1	31				32	20/1	-			SPARE
RECEPTACLE- WATER CHILLER		6		20/1	33				34	20/1	-			SPARE
LIGHTING-ALL OTHER AREAS			6	20/1	35				36	20/1*			4.5	RECEPTACLES-VENDING STORAGE
SPARE	X			20/1	37				38	20/1*	4.5			RECEPTACLES-VENDING STORAGE
SPARE		X		20/1	39				40	20/2		4		HEAT PUMP STORAGE
SPARE			X	20/1	41				42				4	

- \* GFCI circuit breaker (6 milliamperes).
- \*\* CIRCUIT BREAKER MUST HAVE PERMANENT PROVISIONS FOR PLACEMENT OF A LOCK ON IT TO SECURE THE DEVICE IN THE OFF POSITION. THE LOCK-OUT DEVICE MUST BE PART OF THE CIRCUIT BREAKER AND/OR PANELBOARD ASSEMBLY AND MUST REMAIN IN PLACE AFTER THE PADLOCK IS REMOVED.

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Reviewed by: *Ingrid P. Icastano*  
 INGRID P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
71	82	83	

(E) MAIN DISTRIBUTION SWITCHBOARD-MSI

MAIN: (E) 400 AMPERE, 3 POLE CB  
 VOLTS: 277/480 V, 3 PHASE, 4 WIRE  
 LOCATION: UTILITY PAD-NORTHBOUND SRRA ONLY

DESCRIPTION	AMPS			Brk	Ckt
	A	B	C		
IFS2A-COMFORT STATION A -SOUTHBOUND SRRA	40	45	38	(E) 70/3	1
IFS2B-COMFORT STATION B -SOUTHBOUND SRRA	31	45	35	(E) 70/3	2
(E) IFS3- WATER TREATMENT BUILDING	72	82	84	(E) 150/3	3
(E) IFSIA & IFSIB-NORTHBOUND COMFORT STATIONS A & B	74	93	67	(E) 150/3	4
(E) AERATOR PUMPS CONTROL STATION	7	7	7	(E) 20/3	5
(E) SEWAGE PUMP CONTROL STATION	7	7	7	(E) 20/3	6
(E) SPARE	-	-	-	(E) 30/3	7
(E) SPARE	-	-	-	(E) 20/3	8
(E) SPARE	-	-	-	(E) 100/3	9
(E) SPARE	-	-	-	(E) 50/3	10
(E) SPARE	-	-	-	(E) 30/3	11
(E) SPARE	-	-	-	(E) 70/3	12
(E) SPARE	-	-	-	(E) 30/3	13

	A	B	C
TOTAL LOAD (AMPS PER PHASE)	231	279	238

**LOAD ANALYSIS**

MAIN: 70 AMPERE, 3 POLE CB  
 VOLTS: 277/480 V, 3 PHASE, 4 WIRE

FEEDER SIZE: 4\*4/0, 1\*2G  
 LOCATION: INSIDE IFS2A-COMFORT STATION A-Mech/Elect ROOM

PANEL SHA  
 18K SCCR

DESCRIPTION	AMPERES			Brk	Ckt	A B C			Ckt	Brk	AMPERES			DESCRIPTION	
	A	B	C			A	B	C			A	B	C		
TRANSFORMER TSA	31			60/3	1				2	20/1	1			BUILDING EXTERIOR LIGHTS	
		35			3				4	20/1		10		LED2- CAR PARKING LIGHTS	
			35		5				6	20/1			3		PICNIC SHELTER/INTERPRETIVE CENTER LIGHTS
SPARE	X			20/3	7				8	20/1	8			POST TOP WALKWAY LIGHTS-NEAR CAR PARKING	
		X			9				10	20/1		-		SPARE	
			X		11				12	20/1			X		SPARE
SPARE	X			30/3	13				14	20/1	X			SPARE	
		X			15				16	20/2		X		SPARE	
			X		17				18	20/2			X		SPARE
SPARE	X			30/3	19				20	20/1	X			SPARE	
		X			21				22	20/2		X		SPARE	
			X		23								X		SPARE

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
40	45	38	

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L POST MILE R107.3	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION SOUTHBOUND COMFORT STATION A PANEL SCHEDULES	SHEET EE1-3.1 OF 12	
DETAILS BY Carol Christian/Y Sun CHECKED J. S. Sandhu		UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF 12 28
QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			8-14-15 8-31-15 10-7-15 11-19-15 11-20-15 06-13-16	

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NOTES:

- ① Connect sensor cable to flow meter on the raw water pipe riser.
- ② Connect sensor cable to flow meter on the potable water pipe riser.
- ③ 3/4"C, 1 People Counter control cable, as recommended by the People Counter manufacturer.
- ④ 1"C, 3 People Counter control cables.
- ⑤ 3/4"C, 1 sensor cable (flow meter).
- ⑥ 1"C, 2 sensor cables (flow meter).
- ⑦ Fiber media converter.

GENERAL NOTES:

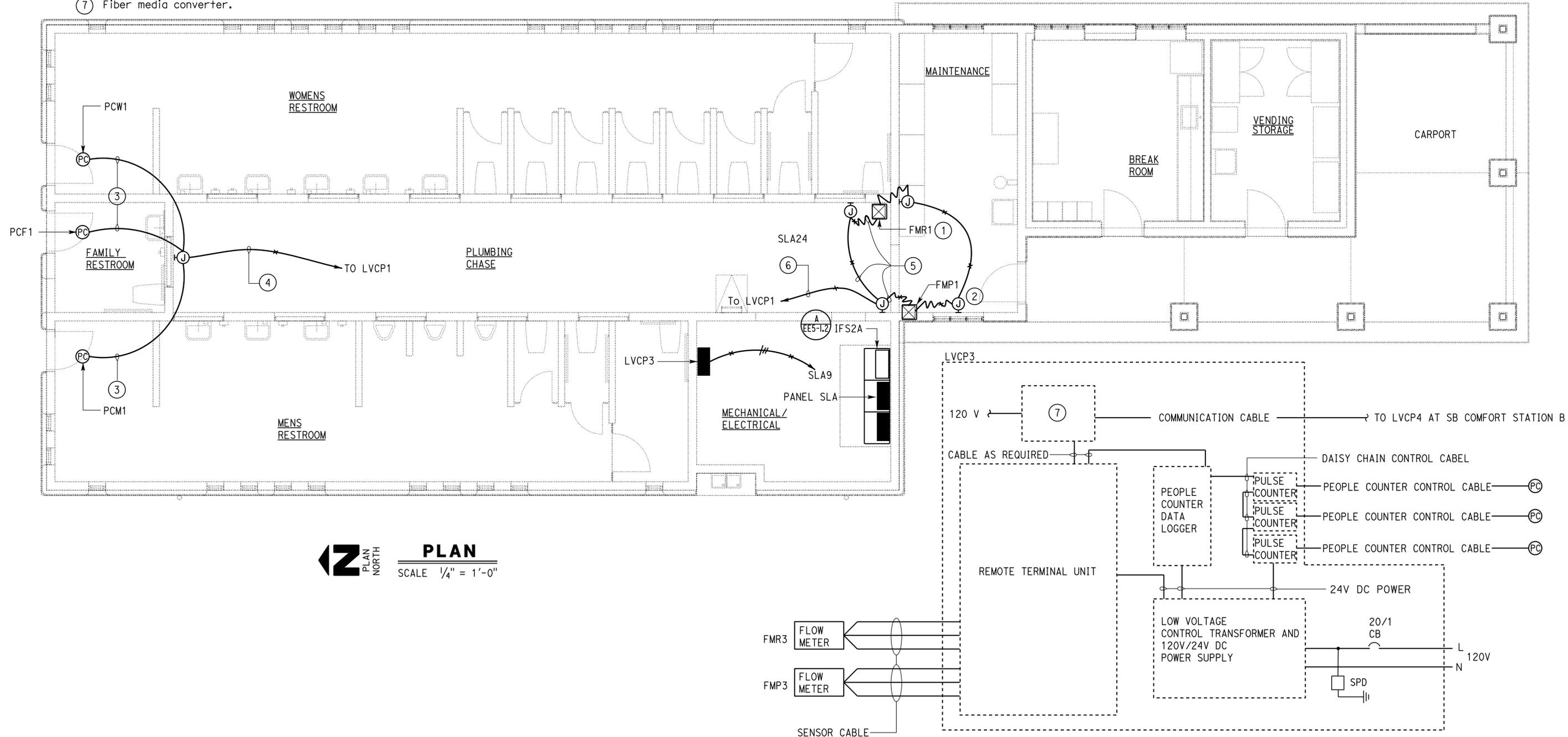
- A. For exact location of flow meters, raw water riser and potable water riser, see Mechanical plans.
- B. All conduits shown routed through the restrooms must be a concealed conduit system through ceiling.
- C. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

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 Reviewed by: *Carol P. Casiano*  
 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

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**PLAN**  
 SCALE 1/4" = 1'-0"

**LOW VOLTAGE BLOCK DIAGRAM**

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DESIGN BY J. S. Sandhu DETAILS BY Carol Christian/Y Sun QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND COMFORT STATION A LOW VOLTAGE ELECTRICAL PLANS	SHEET 13 OF 28
	CHECKED J. S. Sandhu			POST MILE R107.3		
	CHECKED Jaswinder Gill			REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15, 8-31-15, 10-7-15, 11-18-15, 12-15-15, 06-13-16		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 13 OF 28	

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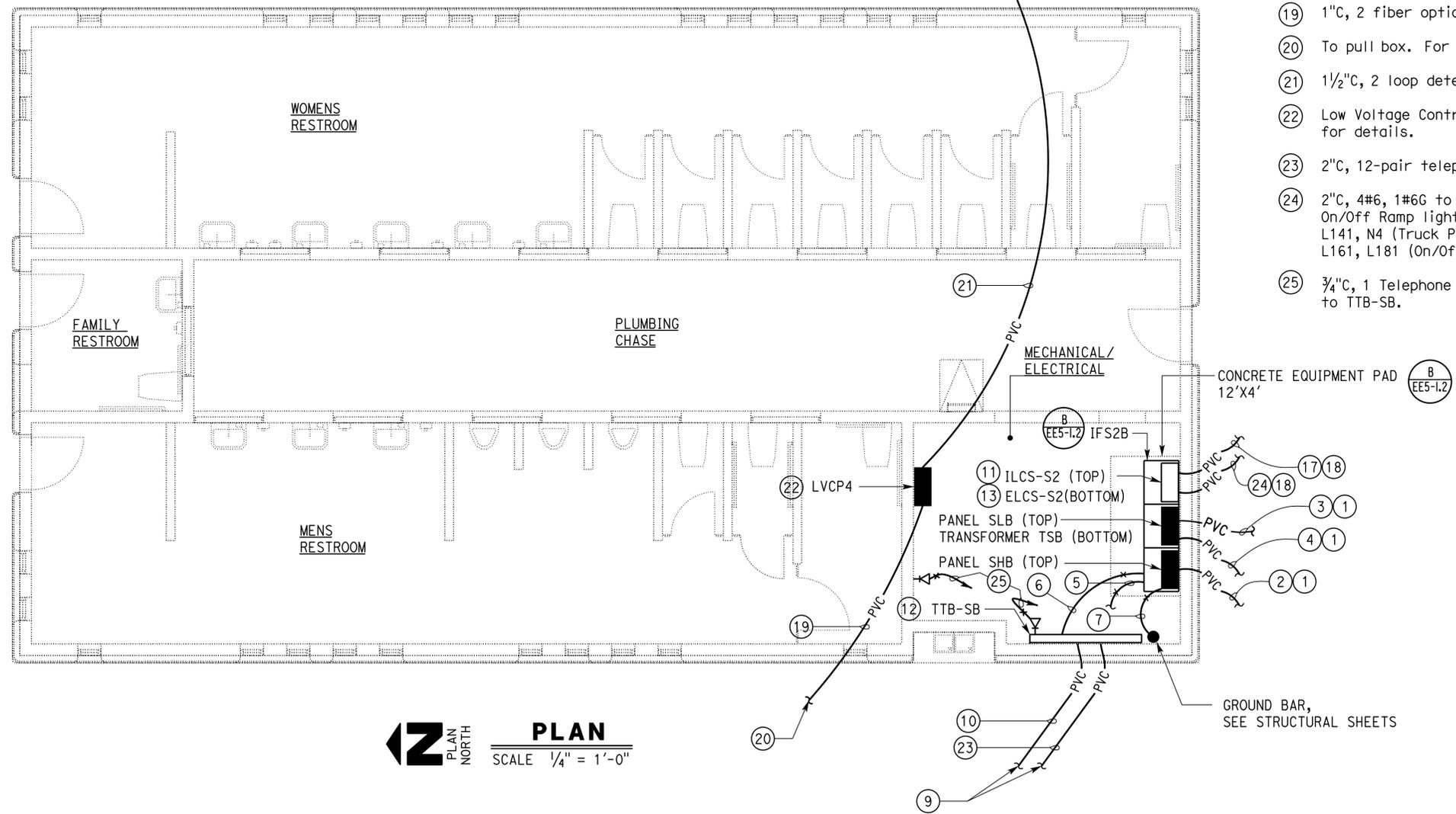
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 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

- NOTES:
- ① To pull box. For continuation, see sheet EE0-1.2.
  - ② \* 3"C, 4#4/0, 1#2G.  
\* 2"C, MT with pull rope.
  - ③ 1"C, MT for future irrigation controller.
  - ④ (2) 2"C, MT with pull rope to the pull box.
  - ⑤ 3/4"C, 1#2G. Bond to interior cold water pipe and structural steel.
  - ⑥ 3/4"C, 1#2G to ground bus inside the IFS2B.
  - ⑦ 3/4"C, 1#2G to ground bar.
  - ⑧ Not used.
  - ⑨ To pull box. For continuation, see sheet EE0-1.4.

- ⑩ 2"C, MT with pull rope to pull box.
- ⑪ For schematic diagram, see sheet EE5-1.4.
- ⑫ 8' x 8' x 3/4" exterior grade plywood. Paint plywood on both sides prior to the installation.
- ⑬ For schematic diagram, see sheet EE5-1.5.
- ⑭ Not used.
- ⑮ Not used.
- ⑯ Not used.
- ⑰ 1"C, 2#8, 1#10G for Post-top walkway lights. Conductor numbers are L101 and N10.
- ⑱ To pull box. For continuation, see sheet EE0-1.5.

- GENERAL NOTES:
- A. All risers inside the building must be PVC coated RSC. Touch up all damaged surfaces and joints with non-spray type touch up compound as recommended by the manufacturer.
  - B. For Panel Schedules, see sheet EE2-3.1.
  - C. All conduits terminated at the TTB must be terminated 2' above the finished floor. All empty conduits must be capped.



- ⑰ 1"C, 2 fiber optic communication cables.
- ⑱ To pull box. For continuation, see sheet EE0-1.3.
- ⑲ 1 1/2"C, 2 loop detector lead-in cables.
- ⑳ Low Voltage Control Panel 4. See sheet EE2-4.1 for details.
- ㉑ 2"C, 12-pair telephone cable.
- ㉒ 2"C, 4#6, 1#6G to Truck parking lights and On/Off Ramp lights. Conductor numbers are L141, N4 (Truck Parking/Sign Light) and L161, L181 (On/Off Ramp Lights).
- ㉓ 3/4"C, 1 Telephone Cable and 1 Data Cable to TTB-SB.

**PLAN**  
 SCALE 1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No.	54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND COMFORT STATION B <b>PANEL LAYOUT</b>	SHEET <b>EE2-1.1</b> OF 28	
	DETAILS	BY	Carol Christian/Y Sun	CHECKED			J. S. Sandhu	POST MILE			R107.3
	QUANTITIES	BY	J. S. Sandhu	CHECKED			Jaswinder Gill	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	SHEET OF 14 28				

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GENERAL NOTES:

- A. Coordinate installation of junction boxes and electrical equipments inside plumbing chase with the Mechanical Contractor.
- B. Do not install junction box and electrical equipment behind pipes at the plumbing chase. Provide 6" clearance from any mechanical pipes.
- C. Unless otherwise noted, conduit shown concealed in floor must be 3/4"C, 2#12, 1#12G.
- D. All risers inside the building must be PVC coated RSC. Touch up all damaged surfaces and joints with a non-spray type touch up compound as recommended by the manufacturer.
- E. For exact location of exhaust fans, see Mechanical plans.
- F. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

NOTES:

- ① 1"C, 8#10, 1#10G.
- ② 3/4"C, 6#10, 1#10G.
- ③ 3/4"C, 4#12, 1#12G.
- ④ 1/2"C, 2#12, 1#12G. Terminate conduit on the back of the Hand Dryer through the wall, see Architectural Plans for exact location of Hand Dryers.
- ⑤ Flush mounted single receptacle with steel locking cover. Mount at 2' above finished floor.
- ⑥ Mount receptacle to suit electric water chiller.
- ⑦ Panel SLB inside IFS2B. See sheet EE5-1.2 for details.

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Reviewed by: *Ingrid P. Icastano*  
 INGRID P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

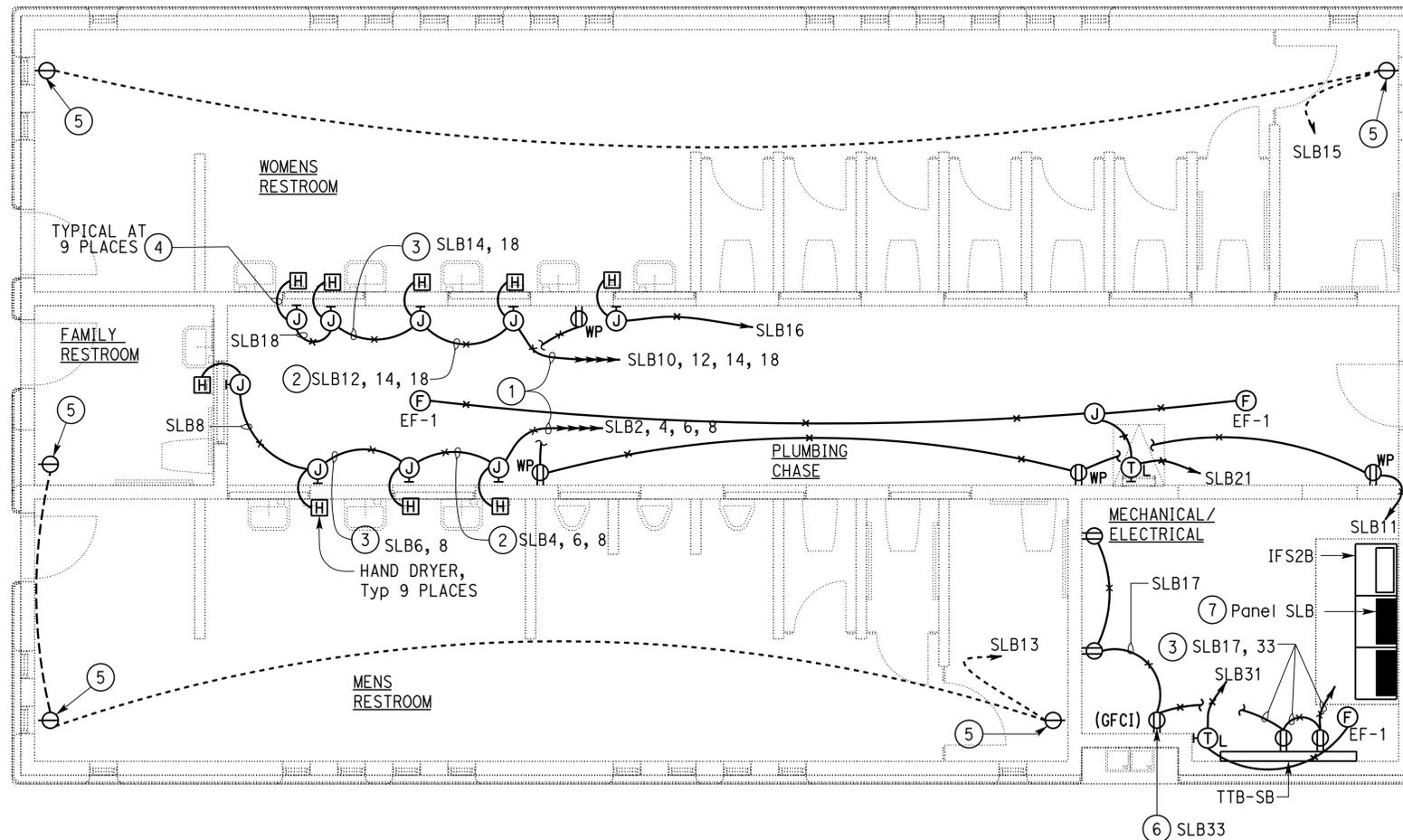
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	240	263

Jaswinder S. Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

*Jaswinder S. Sandhu*  
 REGISTERED PROFESSIONAL ENGINEER  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

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**PLAN**  
 SCALE 1/4" = 1'-0"

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DESIGN BY J. S. Sandhu	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET EE2-1.2
				POST MILE R107.3		
DETAILS BY Carol Christian	CHECKED J. S. Sandhu	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16	15 28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	241	263

06-13-16  
 JASWINDER SANDHU  
 REGISTERED ELECTRICAL ENGINEER DATE  
 No. E 11803  
 Exp. 09-30-16  
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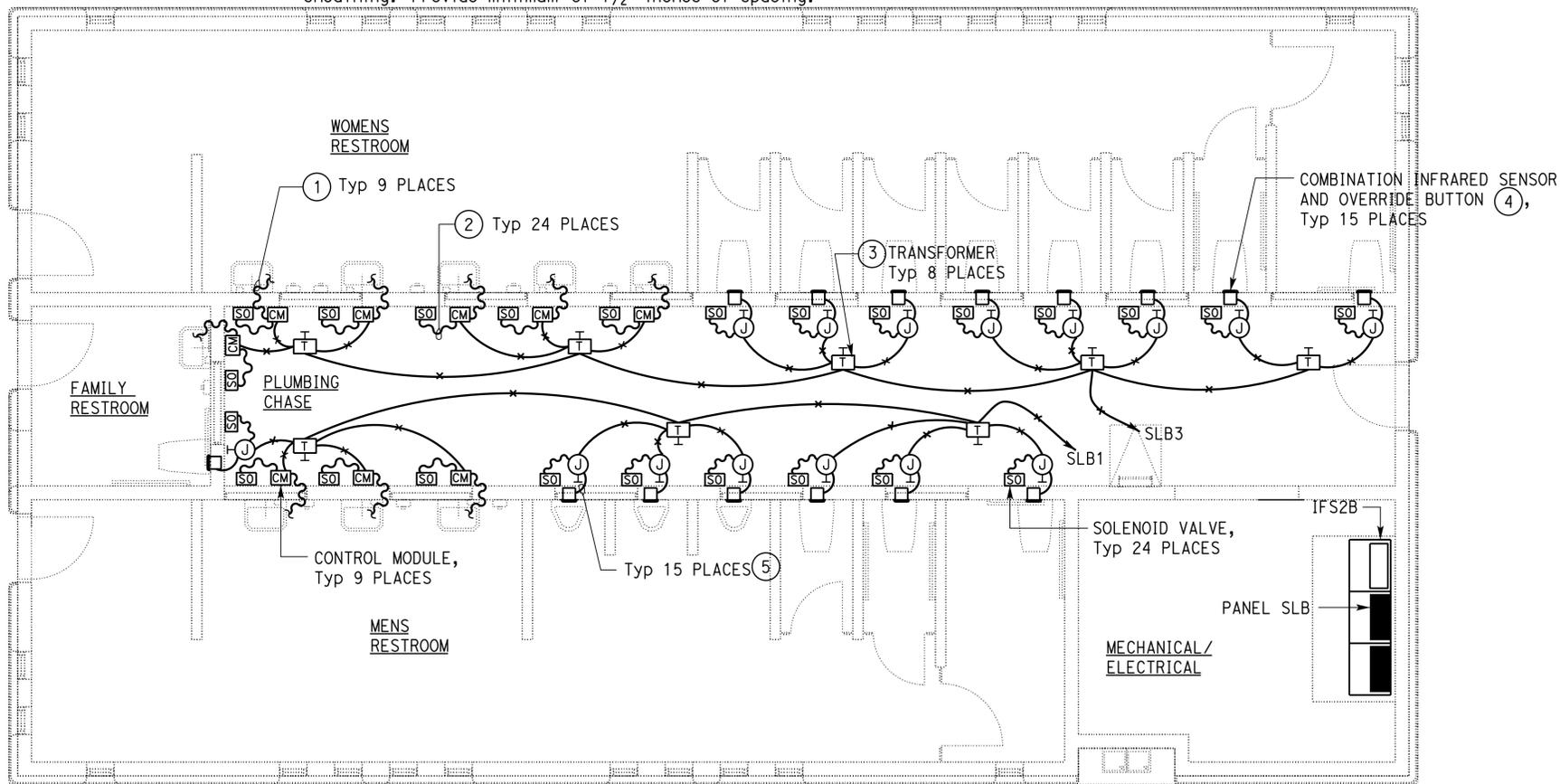
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 INGRID P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

NOTES:

- ① Armored cable to infrared sensor at the faucet. Install armored cable through PVC sleeve.
- ② Armored cable to solenoid valve operator.
- ③ Provide and install all hardware as required for the installation of the low voltage transformer. Mount transformer inside a surface mounted enclosure at 12 inches above the highest horizontal mechanical pipe.
- ④ Mount combination infrared sensor and override button in a flush mounted junction box at location as shown on the Architectural plans.
- ⑤ 1/2"C, conductors as required for the operation of the combination infrared sensor and override button.

GENERAL NOTES:

- A. Install and connect automatic flush system as recommended by the manufacturer.
- B. All devices and accessories for automatic flush system are supplied by water closet, urinal and faucet subcontractors.
- C. Provide and install support systems for supporting armored cable as required. All armored cable must be terminated at junction boxes by utilizing approved connectors. Armored cables used to connect between devices must not run longer than 6 feet.
- D. Transformer supplied by the manufacturer must be sized adequately to supply minimum of 3 units. Contractor has the option of installing one transformer per unit at no extra cost to the State.
- E. Conduits and conductor system as shown is diagrammatic only. Exact system layout must depend upon the particular automatic flush system installed.
- F. Built-in infrared sensors at the lavatory faucets are not shown for clarity.
- G. For details and schematic diagrams, see sheet EE5-1.1.
- H. All the low voltage conductors must be installed inside conduits, as shown on the plans.
- I. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.



**PLAN**  
 SCALE 1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND COMFORT STATION B <b>AUTOMATIC FLUSH SYSTEM</b>	SHEET <b>EE2-1.3</b>
					POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 16 28	

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NOTES:

- ① Interior Lighting Control Station-N2 inside IFS2B. See sheet EE5-1.4 for Schematic Diagram.
- ② Install PES at location as recommended by the manufacturer for optimal daylighting controls.
- ③ Install PEU on the roof 1'-0" above roof floor and the PEU window must be facing towards the north direction.
- ④ Vandal proof corner mounted fixtures. See "Lighting fixture Schedule" on sheet EE5-1.6.
- ⑤ Support fixtures on structural framing. See Structural sheets for location of structural framing.
- ⑥ Exterior Lighting Control Station-N2 inside IFS2B. See sheet EE5-1.5 for schematic diagram.
- ⑦ 1/2"C, control cables as required.
- ⑧ L2-1X44, 10'. Wall mounted fixture.
- ⑨ Fixture with emergency LED driver. Mount emergency LED driver inside the fixture to energize one LED lamp for 90 minutes in case of power failure.
- ⑩ For fixture mounting detail, see detail 4 on sheet EE5-1.7.
- ⑪ Remote ballast for exterior light fixtures (CFL1-1x42). Install ballast inside a junction box. Typical for all exterior lights.
- ⑫ 1/2"C, 2#12, 1#12G. Terminate conduit at an octagon concrete junction box. See fixture mounting detail 4 on sheet EE5-1.7.

GENERAL NOTES:

- A. For exact location of lighting fixtures, see Architectural plans.
- B. All conduits shown routed through the restrooms must be a concealed conduit system through ceiling.
- C. For Lighting Fixtures Schedule, see sheet EE5-1.6.
- D. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

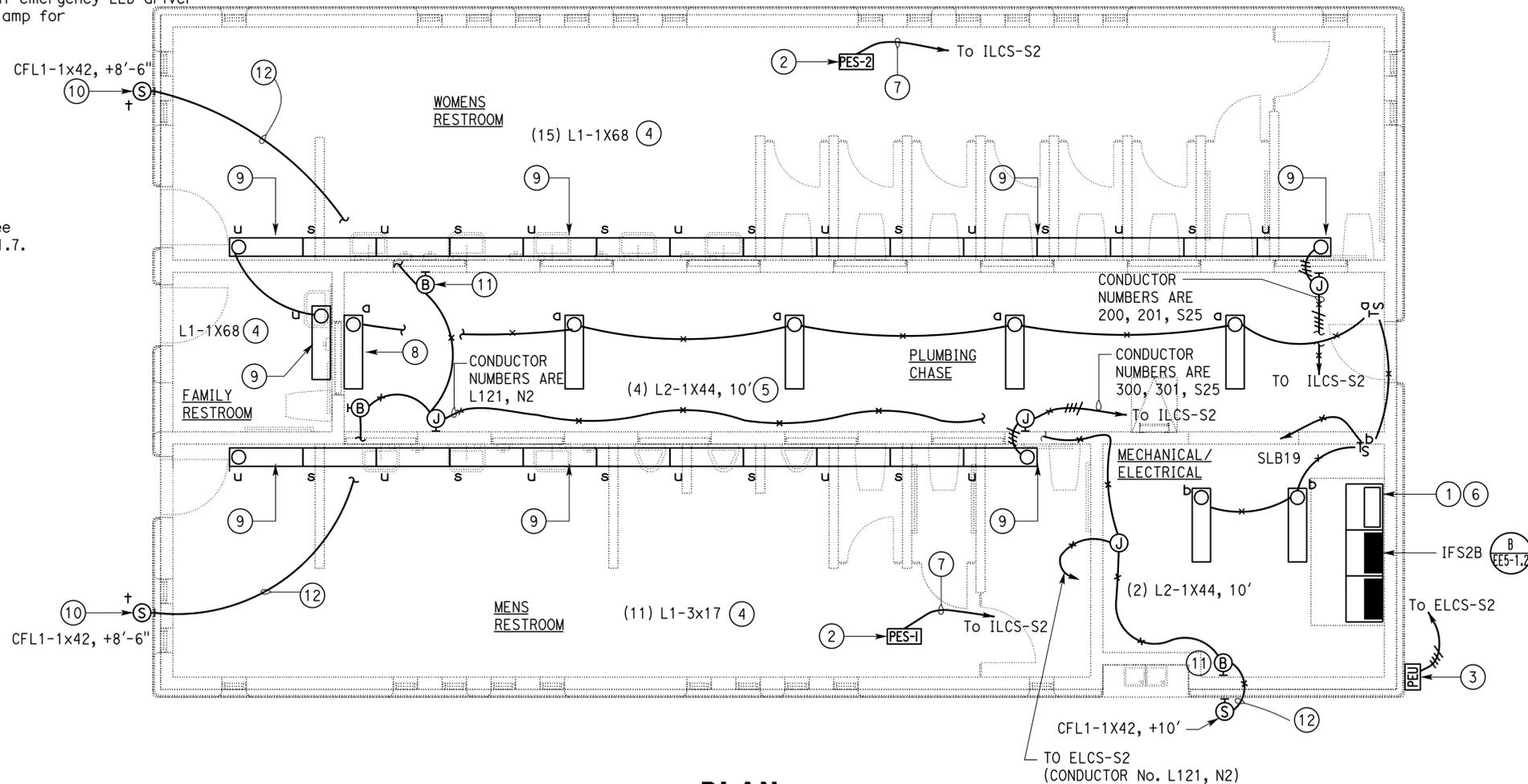
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	242	263

06-13-16  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA

Jaswinder S Sandhu  
 REGISTERED ELECTRICAL ENGINEER  
 DATE 06-13-16  
 PLANS APPROVAL DATE

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**PLAN**  
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				POST MILE R107.3		
DETAILS BY Carol Christian/Y Sun	CHECKED J. S. Sandhu	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY J. S. Sandhu	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16	17 28

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 INGRID P. ICASIANO  
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MAIN: 150 AMPERE, 3 POLE CB  
 VOLTS: 120/208 V, 3 PHASE, 4 WIRE

FEEDER SIZE: 4\*2/0, 1#8G  
 LOCATION: INSIDE IFS2B-COMFORT STATION B-Mech/Elect ROOM

PANEL SLB  
 18K SCCR

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
AUTOFLUSH SYSTEM-MENS	2			20/1	1				2	20/1**	13			HAND DRYER-MENS RESTROOM	
AUTOFLUSH SYSTEM-WOMENS		2		20/1	3				4	20/1**		13		HAND DRYER-MENS RESTROOM	
DISPLAY LIGHTS AT INTERPRETIVE CENTER			1	20/1	5				6	20/1**			13	HAND DRYER-MENS RESTROOM	
SPARE	-			20/1	7				8	20/1**	13			HAND DRYER-FAMILY RESTROOM	
LOW VOLTAGE CONTROL PANEL 4		1		20/1	9				10	20/1**		13		HAND DRYER-WOMENS RESTROOM	
RECEPTACLES- PLUMBING CHASE			7.5	20/1*	11				12	20/1**			13	HAND DRYER-WOMENS RESTROOM	
RECEPTACLE-MENS & FAMILY RESTROOM	1.5			20/1*	13				14	20/1**	13			HAND DRYER-WOMENS RESTROOM	
RECEPTACLE-WOMENS RESTROOM		1.5		20/1*	15				16	20/1**		13		HAND DRYER-WOMENS RESTROOM	
RECEPTACLES-Mech/Elect ROOM			6	20/1*	17				18	20/1**			13	HAND DRYER-WOMENS RESTROOM	
LIGHTING-ALL OTHER AREAS	4			20/1	19				20	30/2	-			SPARE	
EXHAUST FAN-PLUMBING CHASE		4		20/1	21				22		-			SPARE	
SPARE			-	20/1*	23				24	20/1			1	FLOW METER CONVERTER	
INTERIOR LIGHTING CONTROL STATION- (ILCS-S2)	1			20/3	25				26	20/2	-			SPARE	
		9			27				28		-				SPARE
			7		29				30	20/1			-		SPARE
EXHAUST FAN-Mech/Elect	2			20/1	31				32	20/1	-			SPARE	
RECEPTACLE- WATER CHILLERS		6		20/1	33				34	20/1		-		SPARE	
SPARE			1	20/1	35				36	20/1			-	SPARE	
SPARE	-			20/1	37				38		-			SPARE	
SPARE		-		20/1	39				40	60/3		-		SPARE	
SPARE			-	20/1	41				42			-		SPARE	

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
49	62	62	

- GFCI circuit breaker (6 milliampere).
- CIRCUIT BREAKER MUST HAVE PERMANENT PROVISIONS FOR PLACEMENT OF A LOCK ON IT TO SECURE THE DEVICE IN THE OFF POSITION. THE LOCK-OUT DEVICE MUST BE PART OF THE CIRCUIT BREAKER AND/OR PANELBOARD ASSEMBLY AND MUST REMAIN IN PLACE AFTER THE PADLOCK IS REMOVED.

MAIN: 70 AMPERE, 3 POLE CB  
 VOLTS: 277/480 V, 3 PHASE, 4 WIRE

FEEDER SIZE: 4\*4/0, 1#2G  
 LOCATION: INSIDE IFS2B-COMFORT STATION B-Mech/Elect ROOM

PANEL SHB  
 18K SCCR

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
TRANSFORMER TSB	22			60/3	1				2	20/1	1			BUILDING EXTERIOR LIGHTS	
		27			3				4	20/1		10			TRUCK PARKING AND SIGN LIGHT
			27		5				6	20/2			8		(E) ON/OFF RAMP LIGHTS
SPARE	X			20/3	7				8		8			POST TOP WALKWAY LIGHTS-NEAR TRUCK PARKING	
		X			9				10	20/1		8			SPARE
			X		11				12	20/1			X		SPARE
SPARE	X			30/3	13				14	20/1	X			SPARE	
		X			15				16	20/2		X			SPARE
			X		17				18				X		SPARE
SPARE	X			30/3	13				14	20/1	X			SPARE	
		X			15				16			X			SPARE
			X		17				18	20/2			X		SPARE

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
31	45	35	

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	DETAILS BY Carol Christian/Y Sun CHECKED J. S. Sandhu	QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> SOUTHBOUND COMFORT STATION B PANEL SCHEDULES	SHEET OF <b>EE2-3.1</b>	
					POST MILE R107.3			REVISION DATES (PRELIMINARY STAGE ONLY)
					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

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NOTES:

- ① Connect Sensor Cable to flow meter on the raw water pipe riser.
- ② Connect Sensor Cable to flow meter on the potable water pipe riser.
- ③ 3/4"C, 1 People Counter control cable, as recommended by the People Counter manufacturer.
- ④ 1"C, 3 People Counter control cables.
- ⑤ 1/2"C, 1 sensor cable (flow meter).
- ⑥ 1"C, 2 sensor cables (flow meter).
- ⑦ Low voltage control cables and power conductors as required.
- ⑧ Fiber media converter.

GENERAL NOTES:

- A. For exact location of flow meters, raw water riser and potable water riser, see Mechanical plans.
- B. All conduits shown routed through the restrooms must be a concealed conduit system through ceiling.
- C. Do not install interior conduit system directly underneath the roof metal sheathing. Provide minimum of 1/2 inches of spacing.

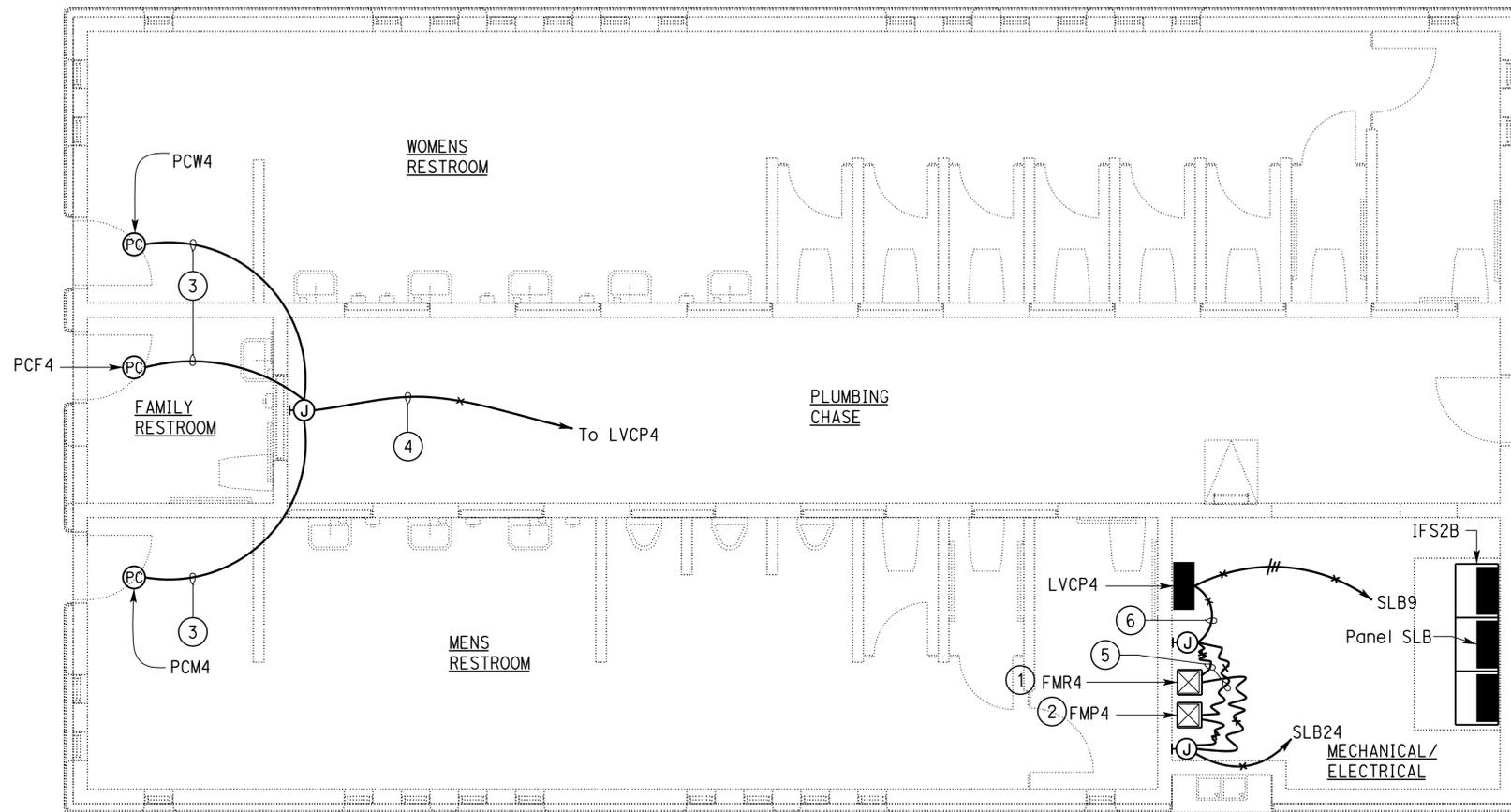
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 INGRID P. ICASIANO  
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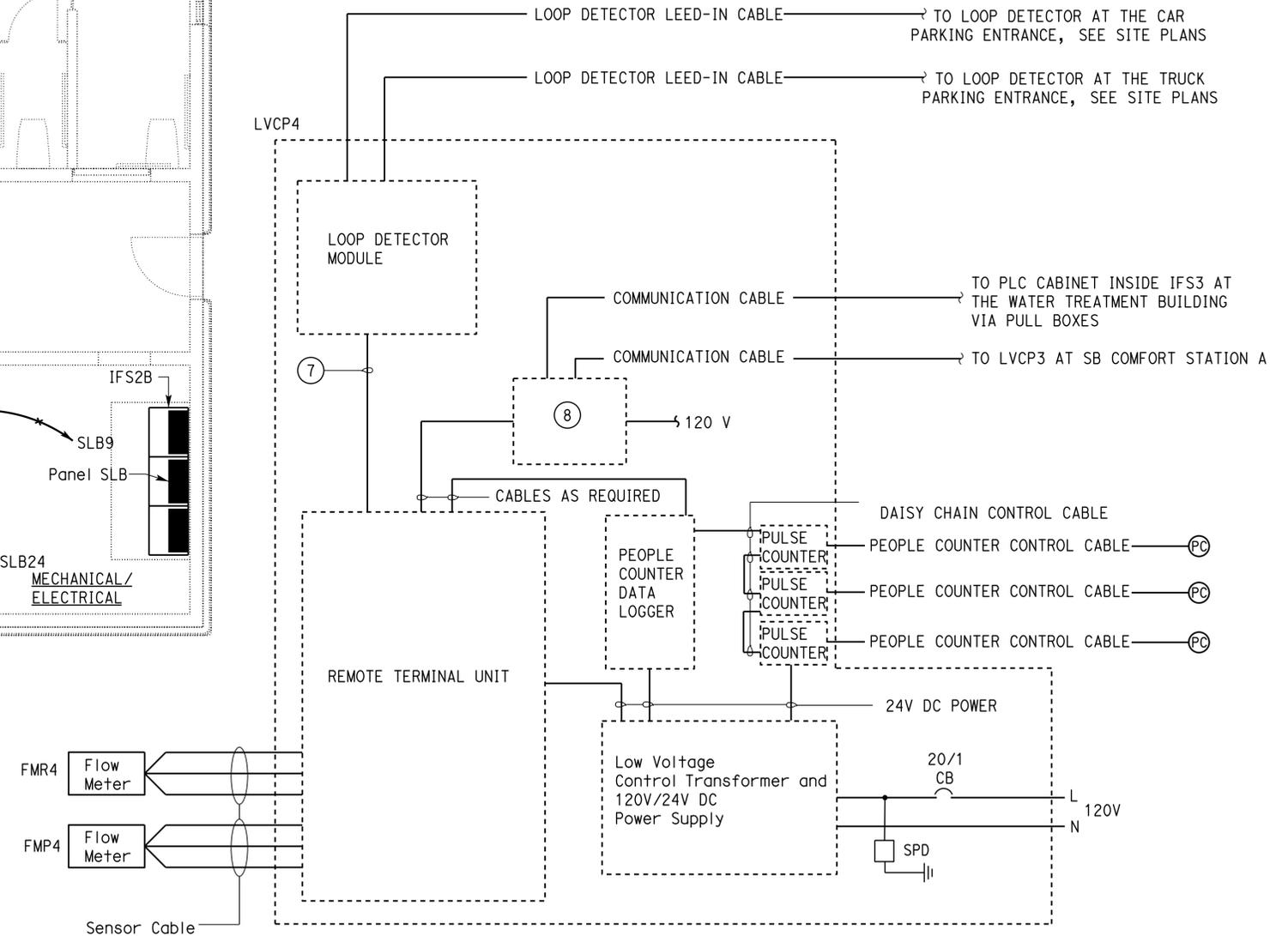
06-13-16  
 Registered Electrical Engineer DATE  
 06-13-16  
 PLANS APPROVAL DATE

*Jaswinder Sandhu*  
 REGISTERED ELECTRICAL ENGINEER  
 No. E 11803  
 Exp. 09-30-16  
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 STATE OF CALIFORNIA

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PLAN NORTH  
**PLAN**  
 SCALE 1/4" = 1'-0"



**LOW VOLTAGE BLOCK DIAGRAM**

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	DETAILS	BY	Carol Christian/Y Sun	CHECKED							J. S. Sandhu
	QUANTITIES	BY	J. S. Sandhu	CHECKED							Jaswinder Gill

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

UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8-14-15, 8-31-15, 10-7-15, 11-18-15, 11-20-15, 06-13-16

SHEET 19 OF 28

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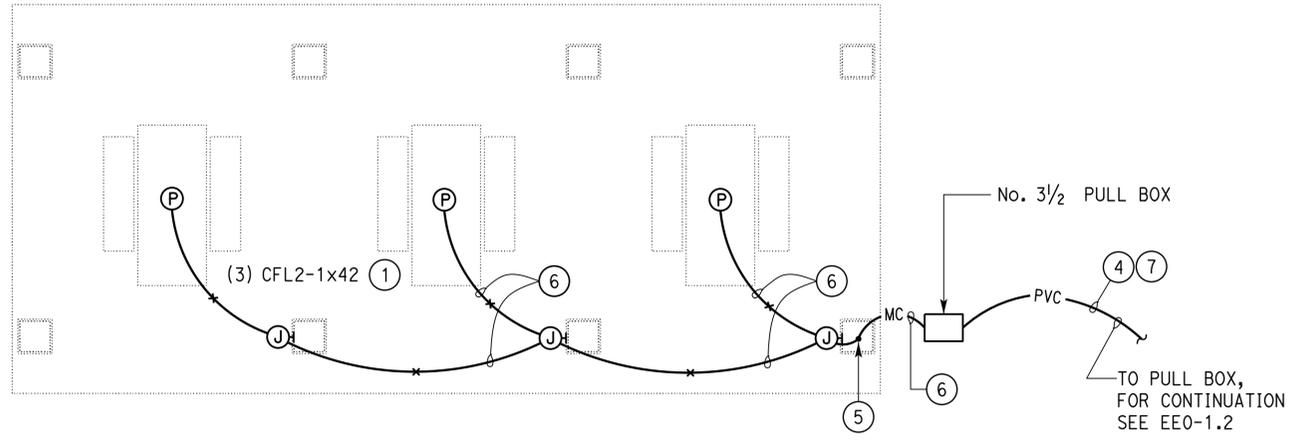
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08	SBD	15	R107.3	245	263

06-13-16  
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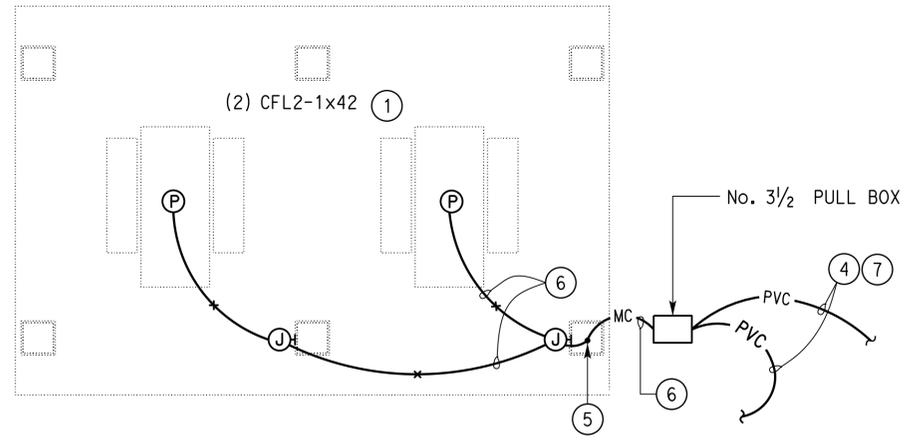
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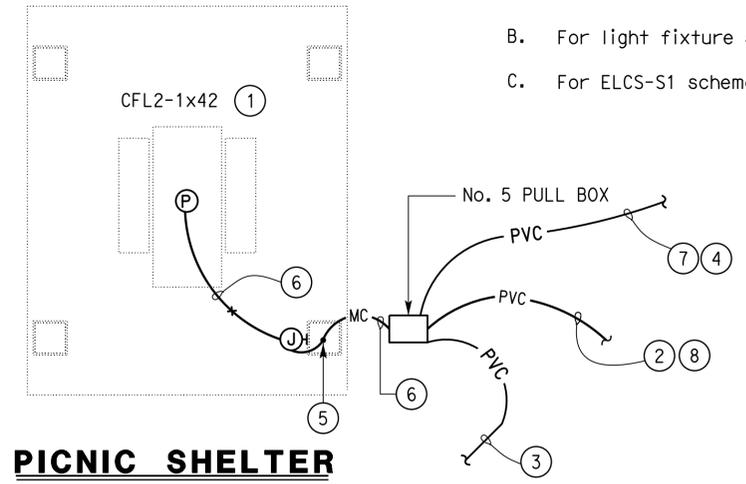
REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
 ELEC  
 STATE OF CALIFORNIA



**PICNIC SHELTER  
 (3 TABLES)**



**PICNIC SHELTER  
 (2 TABLES)**



**PICNIC SHELTER  
 (1 TABLE)**

- NOTES:
- 1) Pendant mount fixtures in-between the structural beams. See Structural Plans for location of beams. Bottom of the fixture must not be below 8'.
  - 2) To ELCS-S1 inside IFS2A at SB Comfort Station A. See sheet EE0-1.2 for continuation.
  - 3) 1"C, 4#10, 1#10G to interpretive display center.
  - 4) 1"C, 2#10, 1#10G. Conductor numbers are L61 and N6.
  - 5) 1"C, conduit embedded inside the Structural column, with 2#12, 1#12G. See Structural sheet (2) ST-5 for details.
  - 6) 3/4"C, 2#12, 1#12G.
  - 7) To adjacent picnic shelter. See details this sheet.
  - 8) 1"C PVC, 2#10, 1#10G (Conductor numbers are L61 and N6) and 2#10, 1#10G (Conductor numbers are L110 and N10).

- GENERAL NOTES:
- A. For exact location of lighting fixtures, see Architectural Plans.
  - B. For light fixture schedule, see sheet EE5-1.6.
  - C. For ELCS-S1 schematics, see sheet EE5-1.5.

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

APPROVED FOR ELECTRICAL WORK ONLY.

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY Carol Christian/Y Sun CHECKED J. S. Sandhu	BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SOUTHBOUND	PICNIC SHELTERS ELECTRICAL PLAN	SHEET EE3-1.1
					POST MILE R107.3				
					REVISION DATES (PRELIMINARY STAGE ONLY)				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16	SHEET OF 20 28			

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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

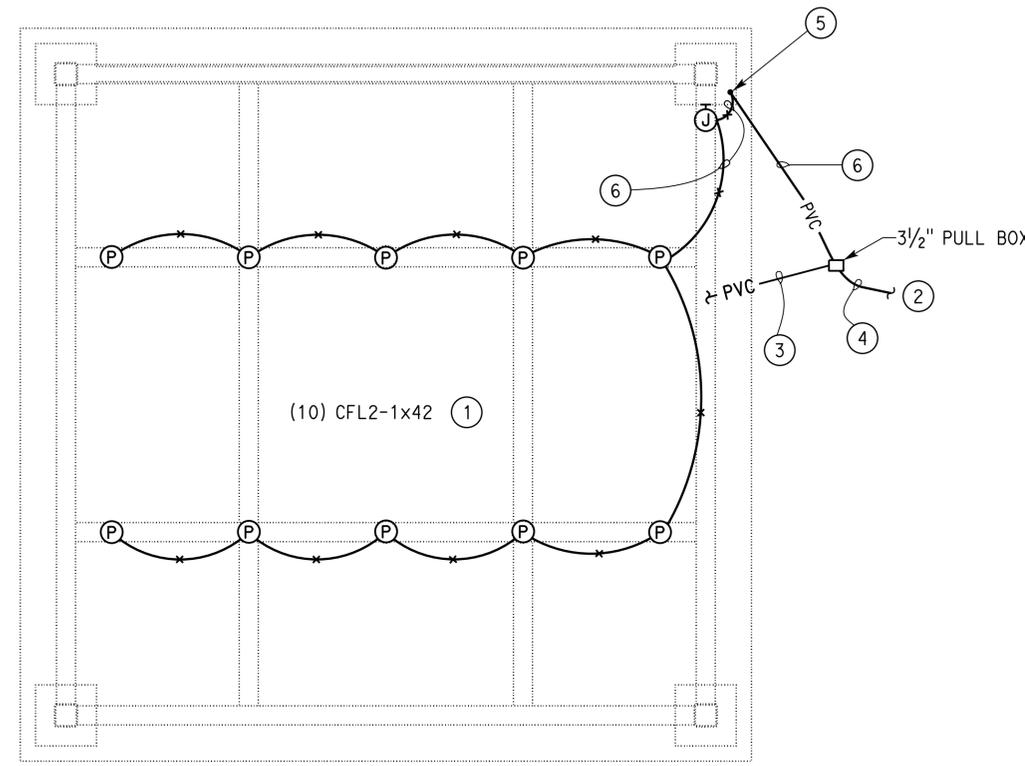
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	246	263

Jaswinder Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

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 JASWINDER SANDHU  
 No. E 11803  
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 STATE OF CALIFORNIA



GENERAL NOTES:

- A. For exact location of lighting fixtures, see Architectural Plans.
- B. For light fixture schedule, see sheet EE5-1.6.
- C. For ELCS-S1 schematics, see sheet EE5-1.5.

NOTES:

- ① Pendant mount or support fixtures on 6 inch structural beams. See Structural Plans for location of beams. Bottom of the fixture must not be below 8'-0".
- ② To ELCS-S1 inside IFS2A at SB Comfort Station A on the Southbound SRRA via pull box. For continuation, see sheet EE0-1.2.
- ③ 3/4" C, PVC, 2#12, 1#12G (conductors L110 and N10) to interpretive displays. For total number of displays, see Civil plans.
- ④ 1" C PVC, 4#10, 1#10G (Conductor numbers are L61 and N6 and L110 and N10).
- ⑤ 3/4" MC, conduit embedded inside the Structural column, with 3/4" C, 2#12, 1#12G (Conductor numbers are L61 and N6).
- ⑥ 3/4" C, 2#12, 1#12G (Conductor numbers are L61 and N6).

PLAN NORTH  
**PLAN**  
 SCALE 1/4" = 1'-0"

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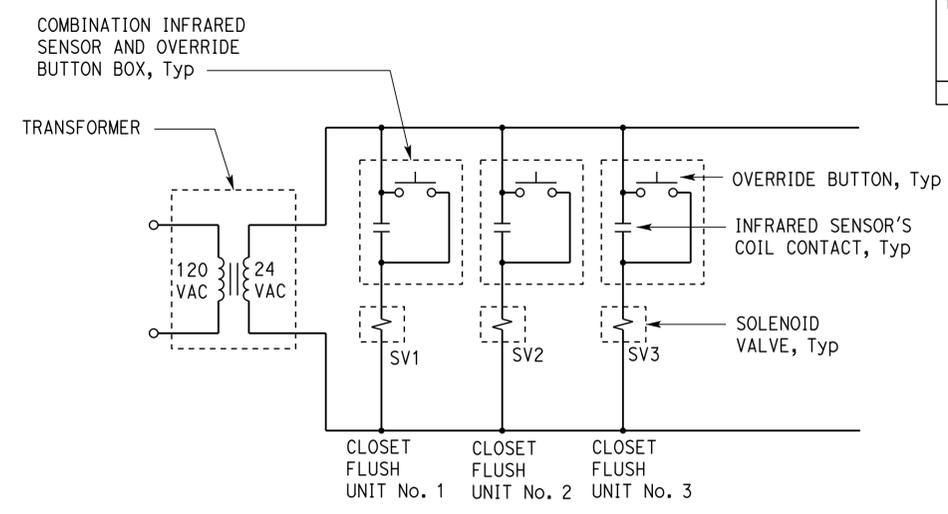
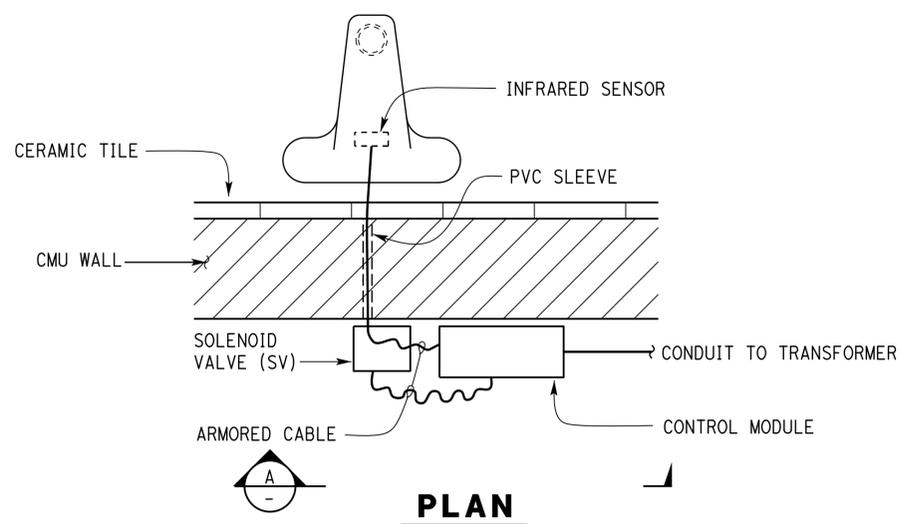
DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY Carol Christian/Y Sun CHECKED J. S. Sandhu	CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> INTERPRETIVE DISPLAY <b>ELECTRICAL PLAN</b>	SHEET <b>EE4-1.1</b> OF 28
					POST MILE R107.3		
QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 21 28	30-AUG-2016 14:41

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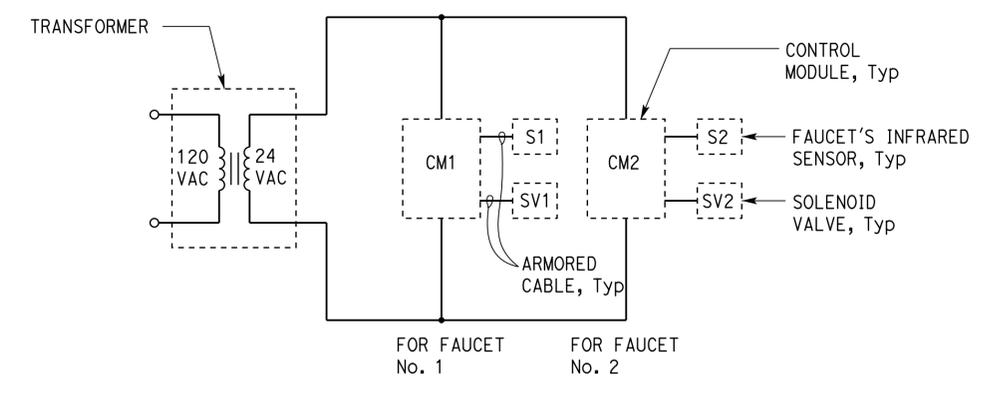
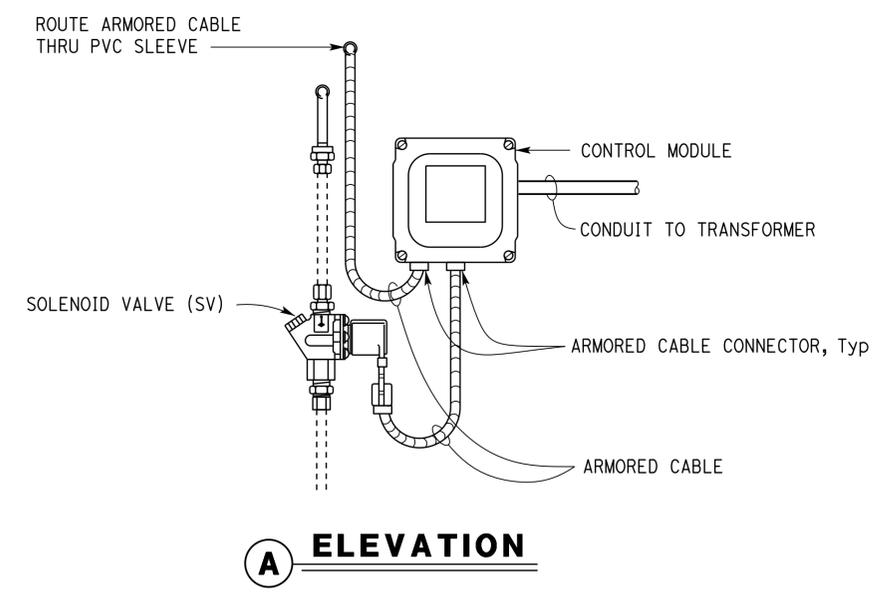
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	247	263
				06-13-16	
				PLANS APPROVAL DATE	
<i>Jaswinder S Sandhu</i> 06-13-16 REGISTERED ELECTRICAL ENGINEER DATE					
No. E 11803 Exp. 09-30-16 ELEC STATE OF CALIFORNIA					
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- GENERAL NOTES:
- A. The schematic diagrams and details shown on this sheet are based on one manufacturer for reference only. Exact wiring and installation depends on the units furnished. Furnish and install any additional components, conduits, conductors and cables necessary for the automatic operation without additional cost to the State.
  - B. For quantity of faucets and water closets per transformer, see "Automatic Flush System" plans.



**TYPICAL SENSOR OPERATED FAUCET**  
 NO SCALE

**TYPICAL SENSOR OPERATED FAUCET SCHEMATIC**

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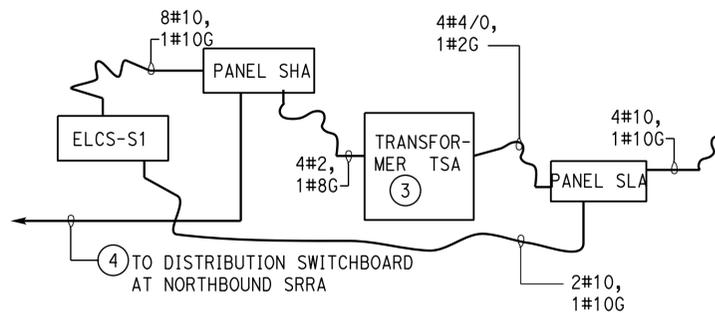
DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SCHEMATICS AND DETAILS I	SHEET OF EE5-1.1	
	DETAILS	BY	Carol Christian	CHECKED			J. S. Sandhu				54R0004L
	QUANTITIES	BY	J. S. Sandhu	CHECKED			Jaswinder Gill				R107.3
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16	SHEET OF 22 28	

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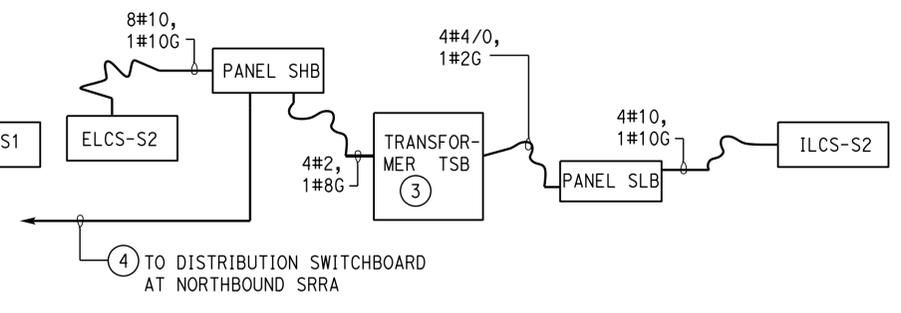
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	248	263

06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
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 STATE OF CALIFORNIA

06-13-16  
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**IFS2A-INTERCONNECTION DIAGRAM (SB COMFORT STATION A)**



**IFS2B-INTERCONNECTION DIAGRAM (SB COMFORT STATION B)**

**GENERAL NOTES:**

- A. Dimensions shown are nominal and are for reference only. Dimensions shown are maximum allowable.
- B. IFS must be 30 inches deep (nominal).
- C. For one-line diagram, see sheet EE0-1.6.

**NOTES:**

- (1) Anchor bolts per IFS manufacturer's recommendations to meet or exceed seismic Zone 4 requirements.
- (2) End seismic bracing per IFS manufacturer's recommendations to meet or exceed seismic Zone 4 requirements.
- (3) 45 kVA, 480 V primary, 208/120 V secondary, 3-phase, 4-wire.
- (4) 3"C, 4#4/0, 1#2G.
- (5) Install Warning label on all panel boards, transformers and control panels.

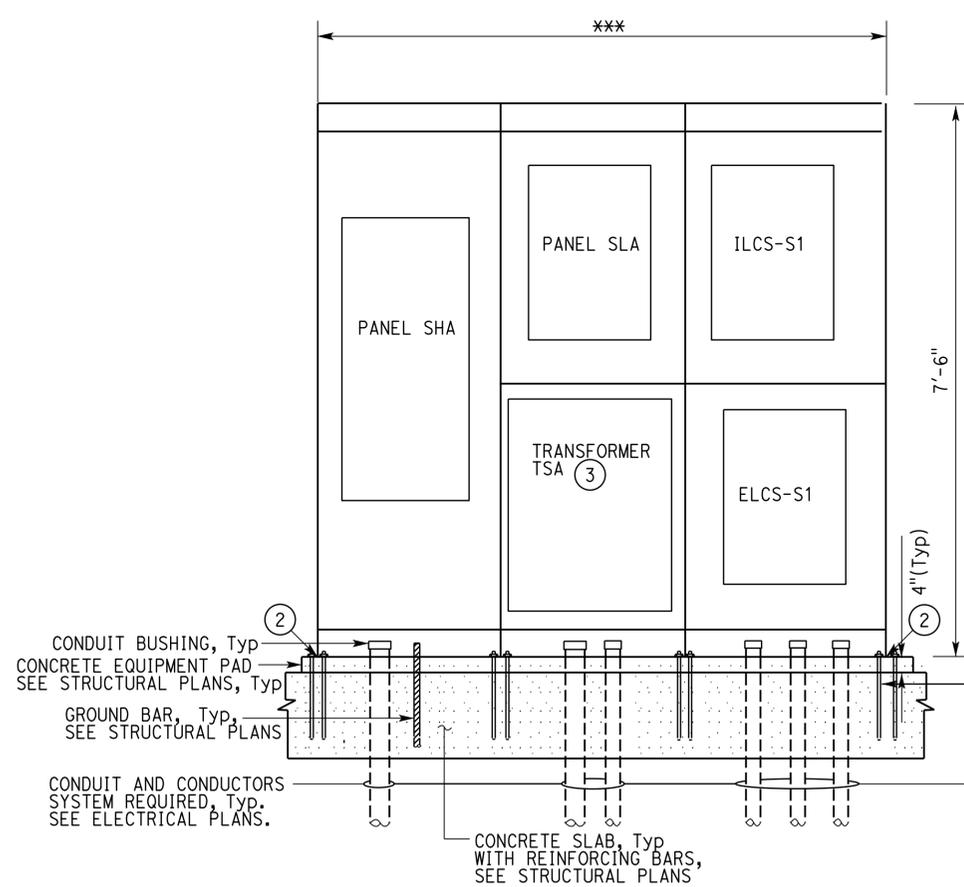
\*\*\* Size to fit all components.

ORANGE BACKGROUND  
BLACK LETTERING, Typ

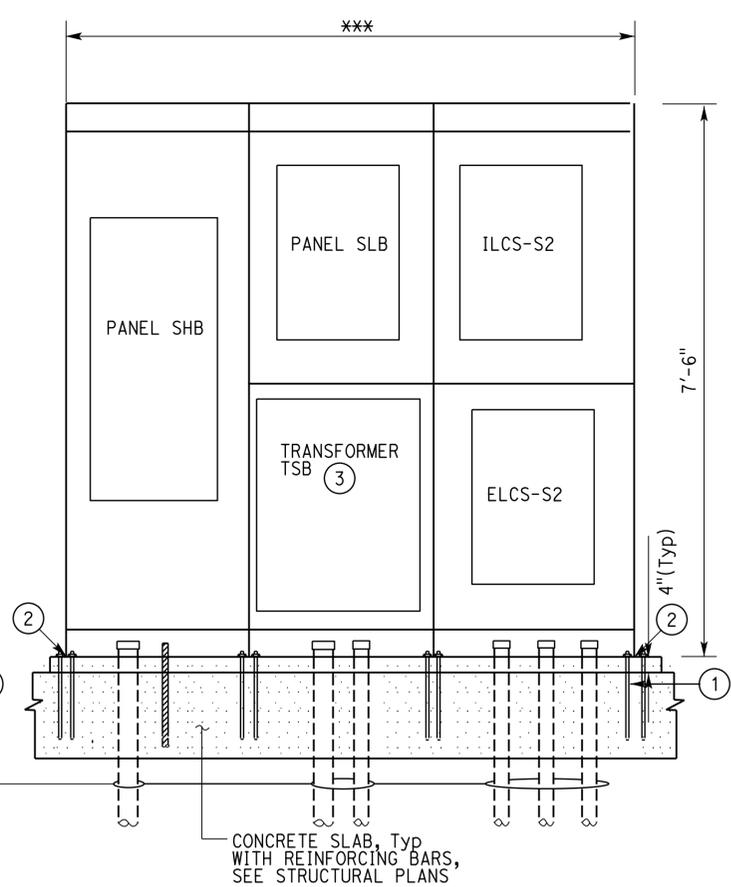


**1 WARNING LABEL\***  
NO SCALE

\* Warning label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material. Install label on all sections of the Switchboard.



**ELEVATION -IFS2A (SB COMFORT STATION A)**  
NO SCALE



**ELEVATION -IFS2B (SB COMFORT STATION B)**  
NO SCALE

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY Carol Christian/Y Sun CHECKED J. S. Sandhu	BY J. S. Sandhu CHECKED Jaswinder Gill	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	<b>C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION</b> ELECTRICAL DETAILS 2	SHEET 23 OF 28
					POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expedite\ee5_1.21.dgn		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	249	263

Jaswinder S. Sandhu 06-13-16  
 REGISTERED ELECTRICAL ENGINEER DATE

06-13-16  
 PLANS APPROVAL DATE

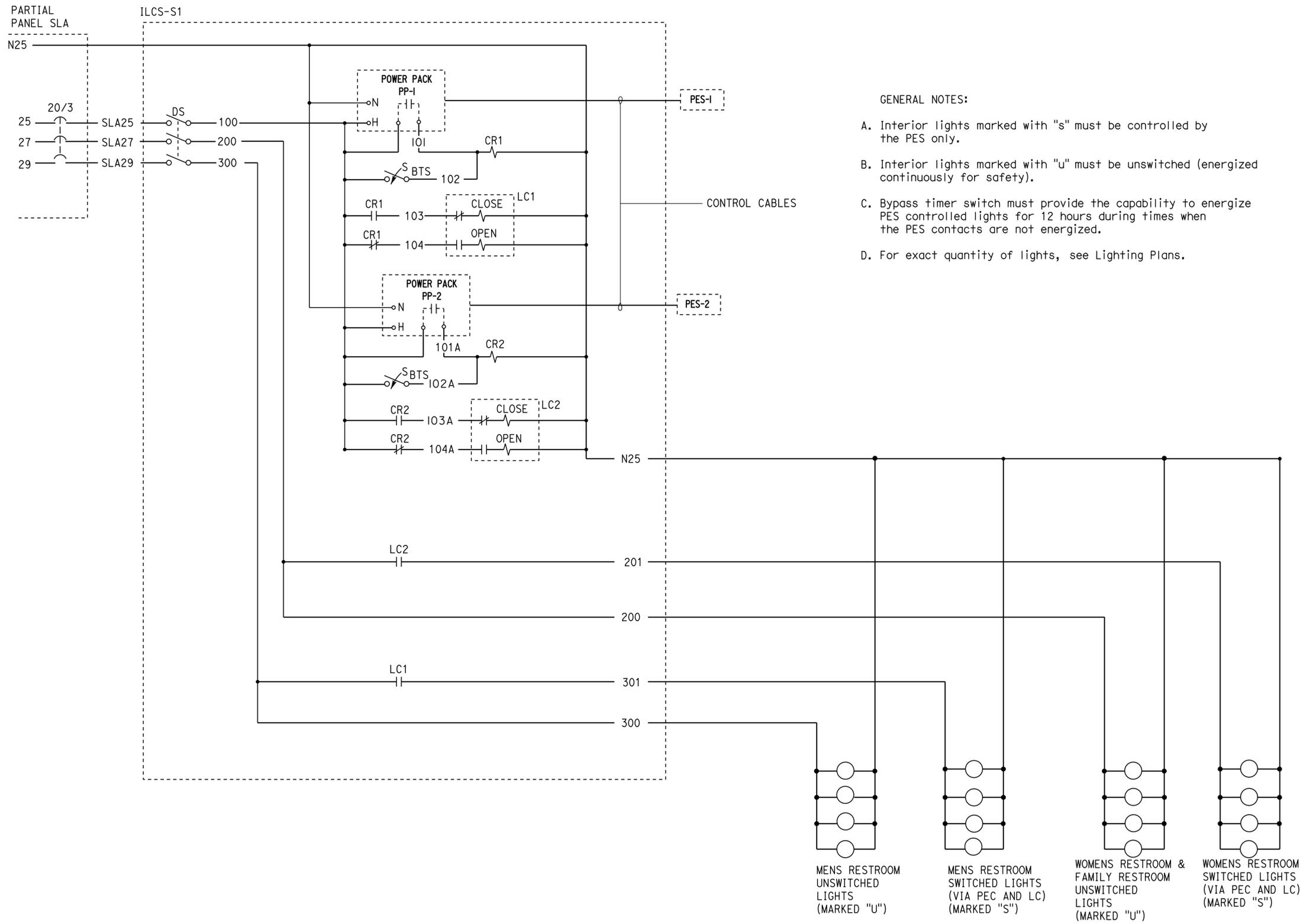
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REGISTERED PROFESSIONAL ENGINEER  
 JASWINDER SANDHU  
 No. E 11803  
 Exp. 09-30-16  
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Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



- GENERAL NOTES:
- A. Interior lights marked with "s" must be controlled by the PES only.
  - B. Interior lights marked with "u" must be unswitched (energized continuously for safety).
  - C. Bypass timer switch must provide the capability to energize PES controlled lights for 12 hours during times when the PES contacts are not energized.
  - D. For exact quantity of lights, see Lighting Plans.

**INTERIOR LIGHTING CONTROL STATION (ILCS-S1)  
 SCHEMATIC DIAGRAM**

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	BY Carol Christian CHECKED J. S. Sandhu	BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION INTERIOR LIGHTING SCHEMATIC DIAGRAM I	SHEET OF EE5-1.3	
					POST MILE R107.3		24	28
					UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 8-14-15   8-31-15   10-7-15   11-18-15   12-15-15   06-13-16

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	250	263

06-13-16  
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06-13-16  
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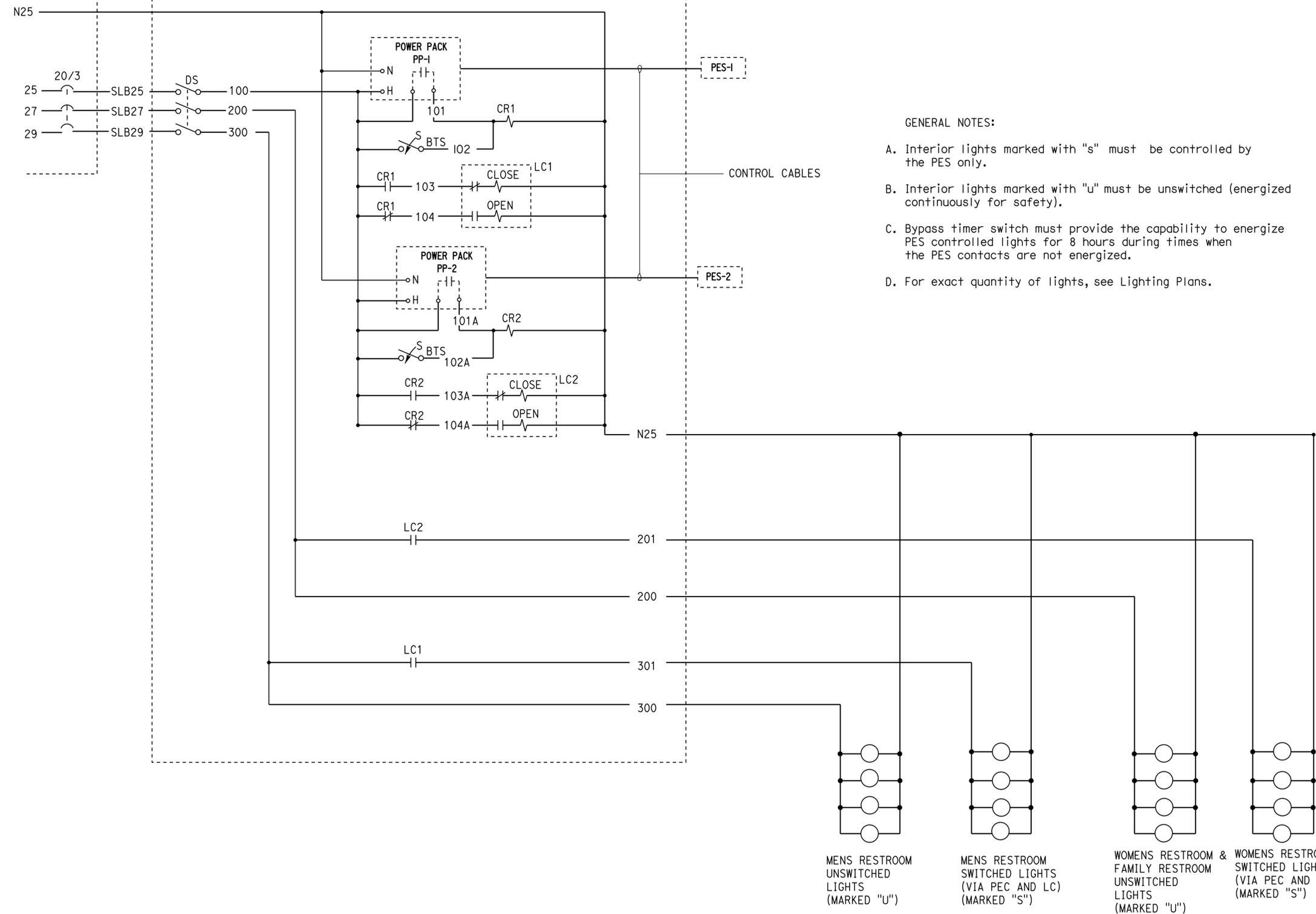
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 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

PARTIAL  
 PANEL SLB

ILCS-S2



- GENERAL NOTES:
- A. Interior lights marked with "s" must be controlled by the PES only.
  - B. Interior lights marked with "u" must be unswitched (energized continuously for safety).
  - C. Bypass timer switch must provide the capability to energize PES controlled lights for 8 hours during times when the PES contacts are not energized.
  - D. For exact quantity of lights, see Lighting Plans.

**INTERIOR LIGHTING CONTROL STATION (ILCS-S2)  
 SCHEMATIC DIAGRAM**

DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET EE5-1.4	
			POST MILE R107.3			INTERIOR LIGHTING SCHEMATIC DIAGRAM 2
			UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			
DETAILS BY Carol Christian CHECKED J. S. Sandhu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 25 OF 28		
QUANTITIES BY J. S. Sandhu CHECKED Jaswinder Gill	P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expedit\ee5_1.41.dgn		8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	251	263

06-13-16  
*Jaswinder S. Sandhu*  
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 No. E 11803  
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06-13-16  
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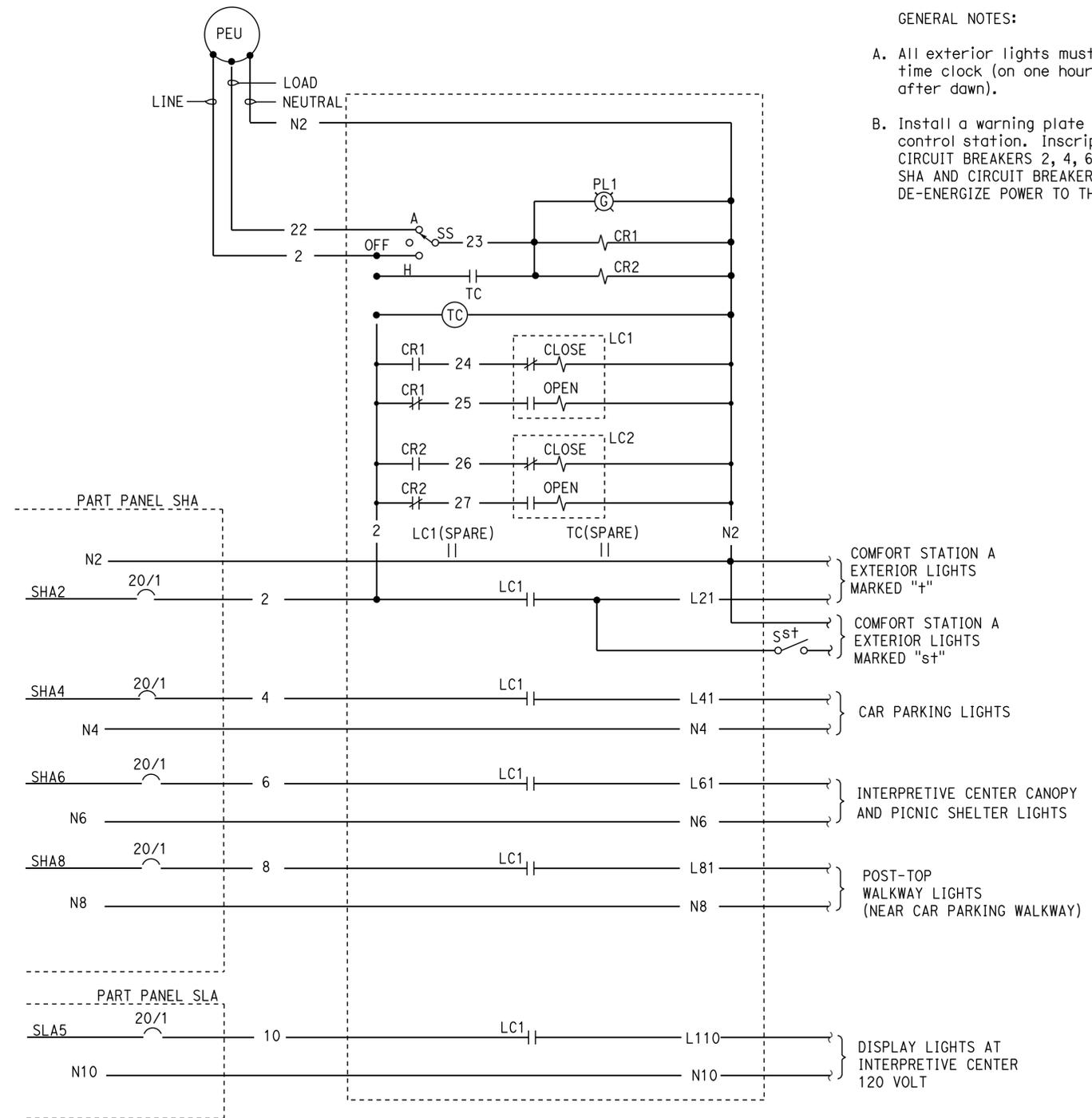
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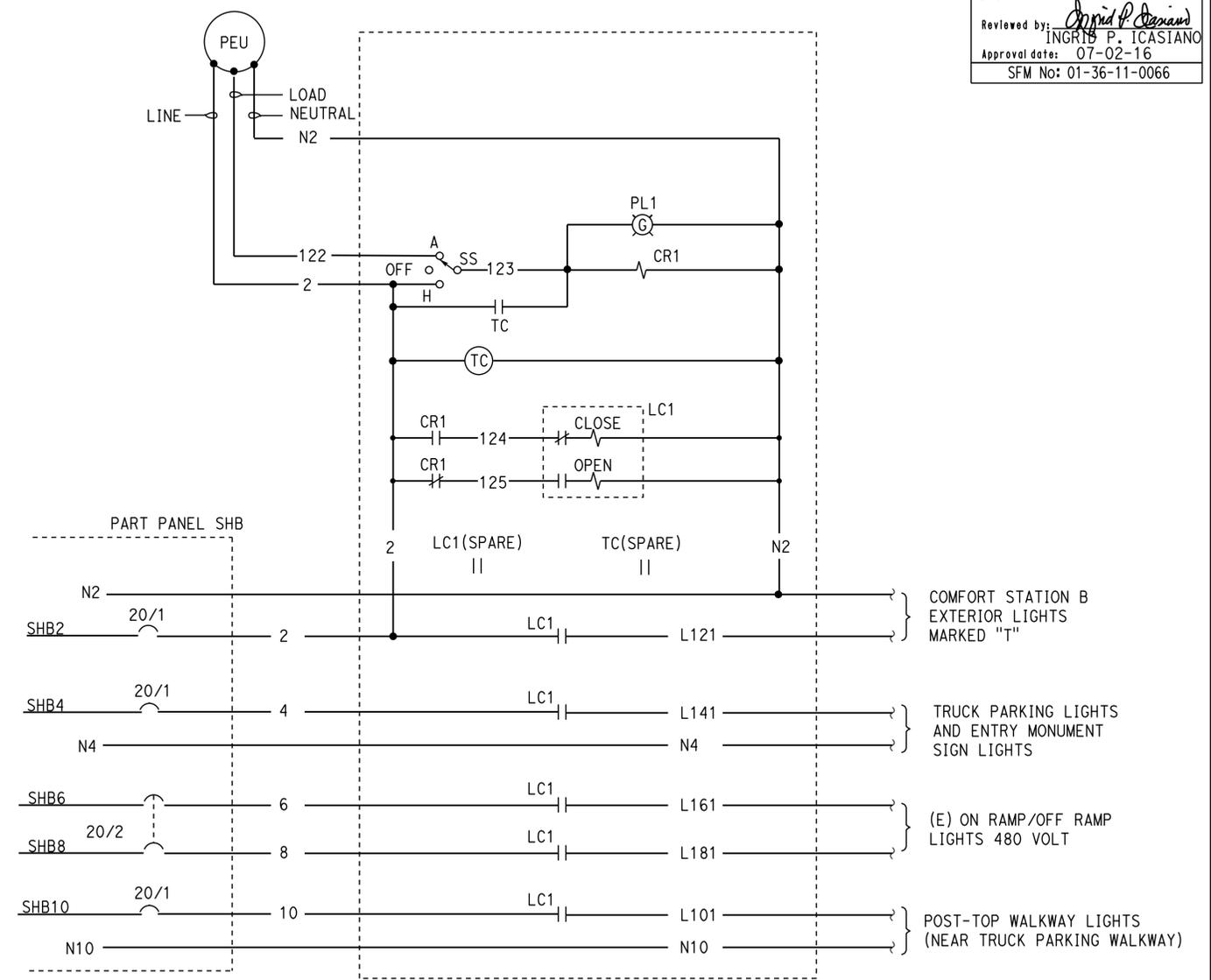
Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

GENERAL NOTES:

- A. All exterior lights must be controlled by PEU and the time clock (on one hour before dusk and off one hour after dawn).
- B. Install a warning plate on all the exterior door of the lighting control station. Inscription must read "DISCONNECT CIRCUIT BREAKERS 2, 4, 6, AND 8 FROM PANELBOARD SHA AND CIRCUIT BREAKER 5 FROM PANELBOARD SLA TO DE-ENERGIZE POWER TO THE CONTROL STATION".



**EXTERIOR LIGHTING CONTROL STATION (ELCS-S1)  
 SCHEMATIC DIAGRAM**



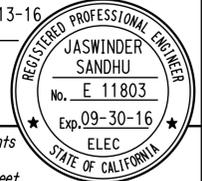
**EXTERIOR LIGHTING CONTROL STATION (ELCS-S2)  
 SCHEMATIC DIAGRAM**

DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION EXTERIOR LIGHTING SCHEMATIC DIAGRAM	SHEET EE5-1.5	
	DETAILS	BY	Carol Christian/Y Sun	CHECKED			J. S. Sandhu	POST MILE			R107.3
	QUANTITIES	BY	J. S. Sandhu	CHECKED			Jaswinder Gill	UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	8-14-15 8-31-15 10-7-15 11-18-15 12-15-15 06-13-16		26	28		

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	252	263

Jaswinder S Sandhu 06-13-16  
REGISTERED ELECTRICAL ENGINEER DATE  
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Reviewed by: *Ingrid P. Castano*  
INGRID P. CASTANO  
Approval date: 07-02-16  
SFM No: 01-36-11-0066

LIGHTING FIXTURE SCHEDULE			
	MANUFACTURER	LAMP	DESCRIPTION
L1	KENALL MIGHTY MAC-CD SERIES, COOPER FAIL-SAFE -FCC SERIES, OR EQUAL.	Max 68 W LED ARRAY	CORNER MOUNTED VANDAL RESISTANT, 48 INCH LONG, MAXIMUM 68 WATTS INPUT LED ENGINE, 3200 MINIMUM DELIVERED LUMENS AT 5000 DEGREE KELVIN TEMPERATURE AT CRI OF 70. THE FIXTURE HOUSING MUST BE MADE OF 16-GAUGE ONE-PIECE DIE-FORMED COLD ROLLED STEEL BODY PAINTED WHITE WITH PRISMATIC POLYCARBONATE INNER LENS AND CLEAR POLYCARBONATE OUTER LENS SECURED WITH THRU STUDS AND MUST HAVE TAMPER RESISTANCE FASTENERS. FIXTURE MUST HAVE AC LED ENGINE DRIVER, UL LISTED, 120V, 50,000 HOUR DESIGN LIFE, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURE MUST ALSO BE UL LISTED FOR WET LOCATION. TWO SCREW DRIVERS FOR TAMPERPROOF SCREW MUST BE FURNISHED TO THE ENGINEER. OVERALL FIXTURE HEIGHT MUST NOT EXCEED 8 INCHES.
L2	LITHONIA STL SERIES, COLUMBIA PTISERIES, OR EQUAL.	Max 44 W LED ARRAY	SURFACE AND WALL MOUNTED, 12 INCH BY 48 INCH, MAXIMUM 44 W INPUT LED ENGINE, 4000 MINIMUM DELIVERED LUMENS AT 4000 DEGREE KELVIN TEMPERATURE AT CRI OF 80. THE FIXTURE HOUSING MUST BE MADE OF ONE-PIECE DIE-FORMED COLD ROLLED STEEL BODY PAINTED WHITE COMPLETE WITH A WRAPAROUND LENS. FIXTURE MUST HAVE AC LED ENGINE DRIVER, UL LISTED, 120V, 50,000 HOUR DESIGN LIFE, 0.9 MINIMUM POWER FACTOR, 5-YEAR WARRANTY, COMPLETE WITH INTERNAL THERMAL PROTECTION AND OVERLOAD PROTECTION. FIXTURE MUST ALSO BE UL LISTED FOR DAMP LOCATION. TWO SCREW DRIVERS FOR TAMPERPROOF SCREW MUST BE FURNISHED TO THE ENGINEER.
L3	LSI INDUSTRIES-XAM SERIES, BETA LIGHTING-THE EDGE SERIES, OR EQUAL.	140 W LED ARRAY	TYPE 15 LIGHTING STANDARD, 140 WATT, 277 VOLT, LIGHT EMITTING DIODES ARRAY, TYPE THREE, FULL CUT OFF LUMINAIRE WITH ONE PIECE DIE-CAST, ALUMINUM ALLOY INTEGRAL COOLING ELECTRONIC MODULE DRIVER. THE LUMINAIRE MUST HAVE ONE-PIECE DIE-CAST, ALUMINUM ALLOY HOUSING WITH SILICONE GASKET SEALS. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT, BRONZE IN COLOR. THE FULL CUTOFF OPTICAL ASSEMBLY MUST HAVE A FORWARD THROW REFLECTOR WITH NO BACK LIGHT TO THE HOUSE SIDE PERMITTED. FIXTURE MUST HAVE FACTORY INSTALLED FUSES. POLE MUST CONFORM TO REVISED STANDARD SPECIFICATIONS SECTION 86-1.02J.
CFL1	LSI INDUSTRIES ABOLITE RLM SERIES, TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES, OR EQUAL.	ONE 42 W CFL	OUTDOOR WALL MOUNTED LUMINAIRES SHOWN ON PLANS, 42- WATTS, 277 VOLTS, CUT-OFF LUMINAIRE, REMOTE ELECTRONIC BALLAST MOUNTED AT LOCATION SHOWN ON PLANS WITH SOCKET BASE SUITABLE FOR ONE 42W TRT COMPACT FLUORESCENT LAMPS WITH TEMPERED CLEAR LENSE. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN. THE LAMP MUST HAVE A WIREGAURD.
CFL2	LSI INDUSTRIES ABOLITE RLM SERIES, TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES, OR EQUAL.	ONE 42 W CFL	PENDANT OR STEM MOUNTED LUMINAIRE UNDER A CANOPY, 42- WATTS, 277 VOLTS, CUT-OFF LUMINAIRE, REMOTE ELECTRONIC BALLAST MOUNTED AT FIXTURE BASE WITH SOCKET BASE SUITABLE FOR ONE 42W TRT COMPACT FLUORESCENT LAMPS WITH TEMPERED CLEAR LENSE. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN. THE LAMP MUST HAVE A WIREGAURD.
MH1	LSI INDUSTRIES ABOLITE RLM SERIES, TROY CLASSIC-HEAVY DUTY RLM SERIES, BARN LIGHT-WAREHOUSE SHADE SERIES, OR EQUAL.	ONE 100 W MH	POST-TOP LUMINAIRE, 100- WATTS, 277 VOLTS, METAL HALIDE LUMINAIRE, CUT-OFF, BALLAST MOUNTED INSIDE THE POLE WITH SOCKET BASE SUITABLE FOR ONE REMOTE 100W METAL HALIDE LAMPS WITH TEMPERED CLEAR LENS AND WIREGAURD. ALL EXPOSED DIE-CAST SURFACE MUST HAVE A SUPER THERMOSET POLYESTER POWDER COAT PAINT. FOR FIXTURE FINISH SCHEDULE, SEE ARCHITECTURAL FINISH SCHEDULE PLAN.
MH3	LITHONIA TWP SERIES, DAY BRITE WLM SERIES, OR EQUAL.	ONE 70 W MH	OUTDOOR WALL MOUNTED, 70 WATT, 120 VOLT, METAL HALIDE LUMINAIRE WITH INTEGRAL BALLAST. THE LUMINAIRE MUST BE VANDAL- RESISTANCE WITH CLEAR PRISMATIC POLYCARBONATE LENS. HOUSING MUST BE CONSTRUCTED FROM HEAVY-DUTY TWO PIECE DIE CAST ALUMINUM AND MUST BE UL LISTED FOR WET LOCATION.

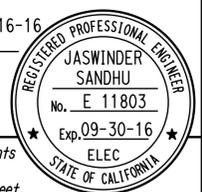
DESIGN BY J. S. Sandhu CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET EE5-1.6	
			POST MILE R107.3			LIGHTING FIXTURES SCHEDULE
			UNIT: 3597 CONTRACT No.: 08-068421 PROJECT NUMBER & PHASE: 08140001841			

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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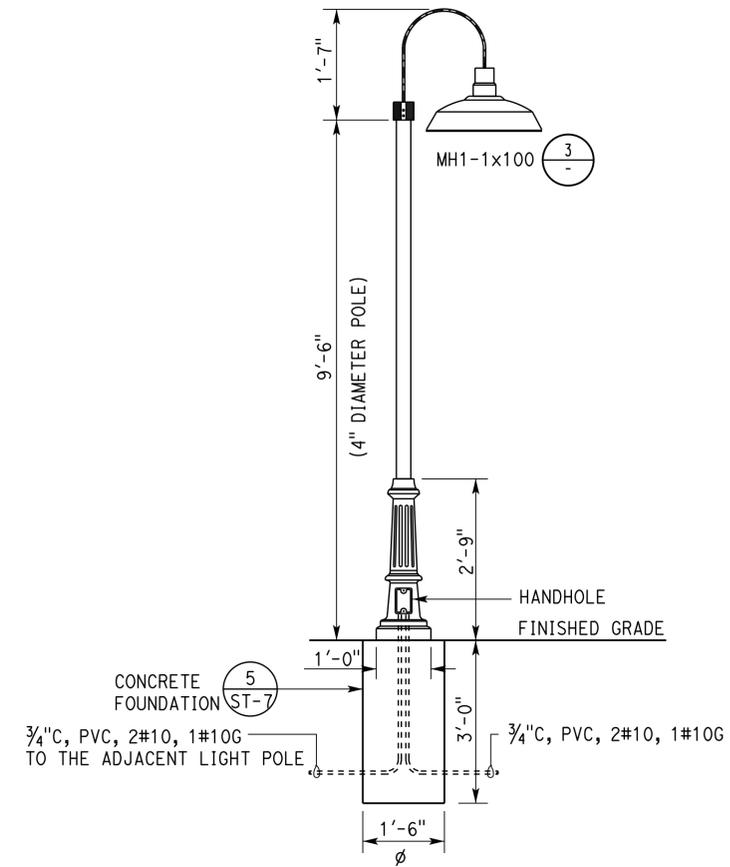
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	253	263

Jaswinder S. Sandhu 06-16-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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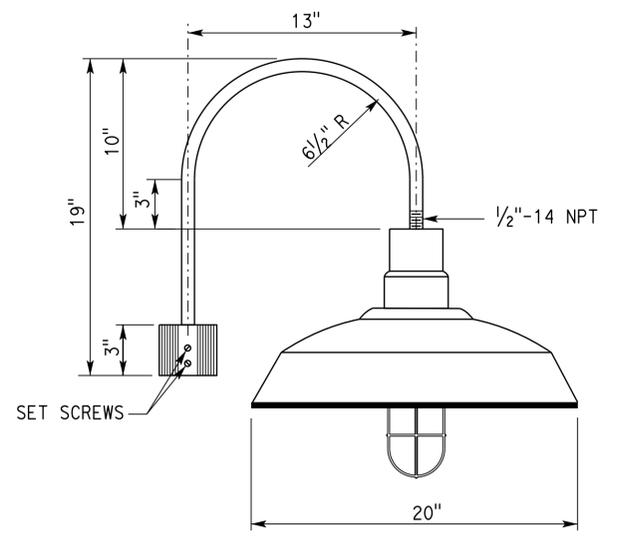


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 Reviewed by: Ingrid P. Casiano  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

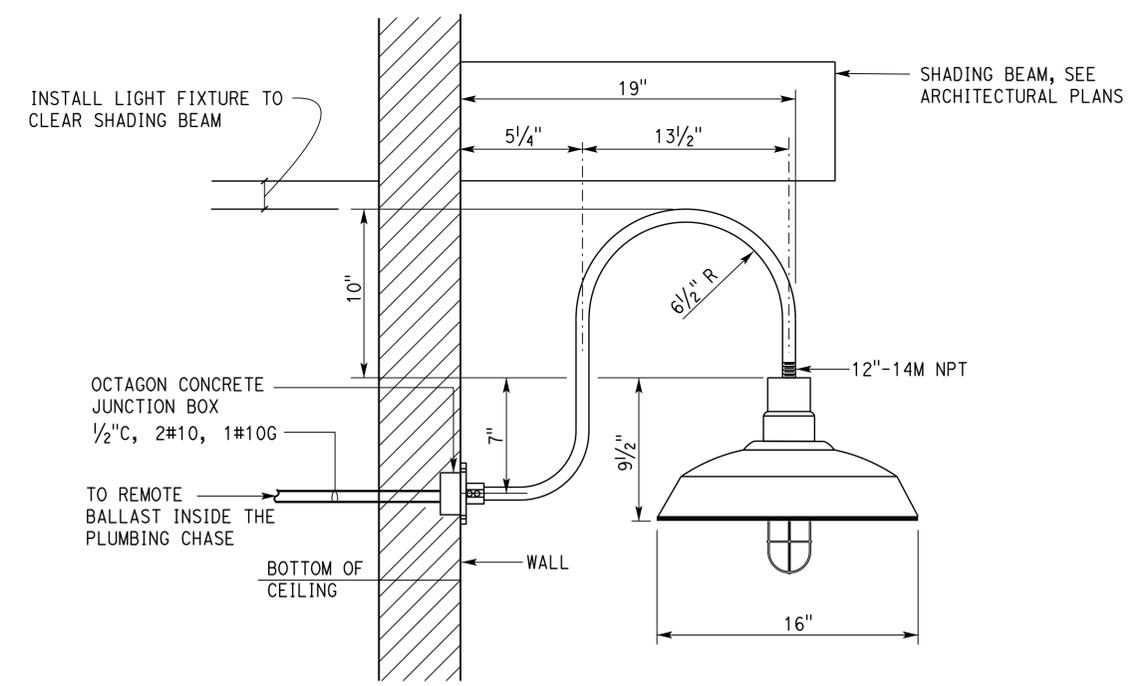
NOTE:  
 ① Adjust aiming angle so that flagpole is lighted.



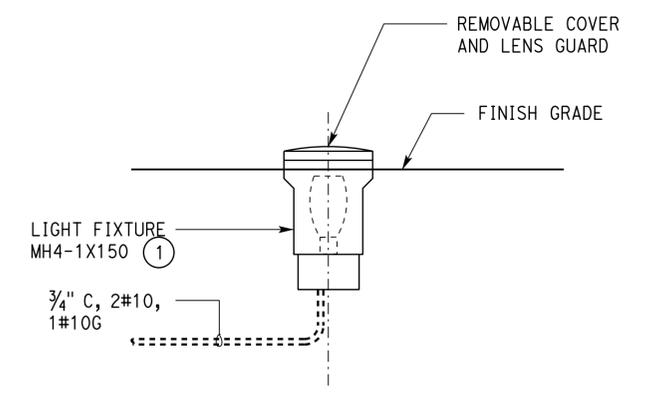
**1 POST-TOP FIXTURE**  
 NO SCALE



**3 MH1-1x100**  
 NO SCALE



**4 WALL MOUNT CFL1-1x42**  
 NO SCALE



**5 TYPE MH4 FLAGPOLE LUMINAIRE**  
 NO SCALE

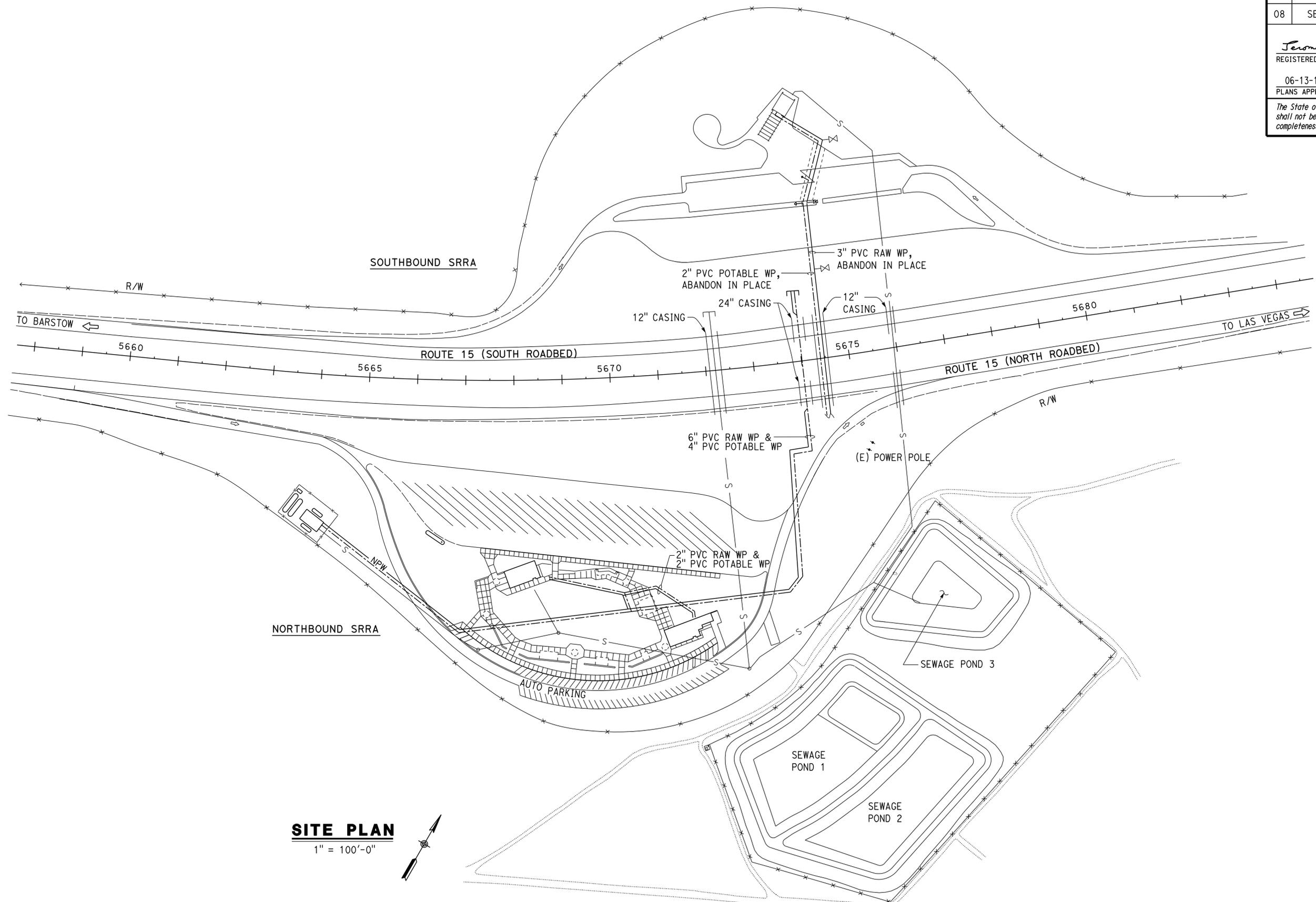
DESIGN	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54R0004L	C.V. KANE SAFETY ROADSIDE REST AREA REHABILITATION LIGHTING FIXTURES MOUNTING DETAILS	SHEET OF EE5-1.7
	DETAILS	BY	Carol Christian	CHECKED			J. S. Sandhu	POST MILE		
QUANTITIES	BY	J. S. Sandhu	CHECKED	Jaswinder Gill	UNIT: 3597	CONTRACT No.: 08-068421	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	28 28
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	PROJECT NUMBER & PHASE: 08140001841	8-14-15 8-31-15 10-7-15 11-18-15 11-20-15 06-13-16		P:\dist_08\0814000184_cv_kane_sb_srra_upgrade\expedit\ee5_1.71.dgn	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	254	263

*Jerome R. Marcotte* 11-20-15  
REGISTERED CIVIL ENGINEER DATE  
06-13-16  
PLANS APPROVAL DATE  
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Reviewed by: *Ingrid P. Casiano*  
**INGRIS P. CASIANO**  
Approval date: 07-02-16  
SFM No: 01-36-11-0066



**SITE PLAN**  
1" = 100'-0"

THIS PLAN APPROVED FOR WATER WORK ONLY

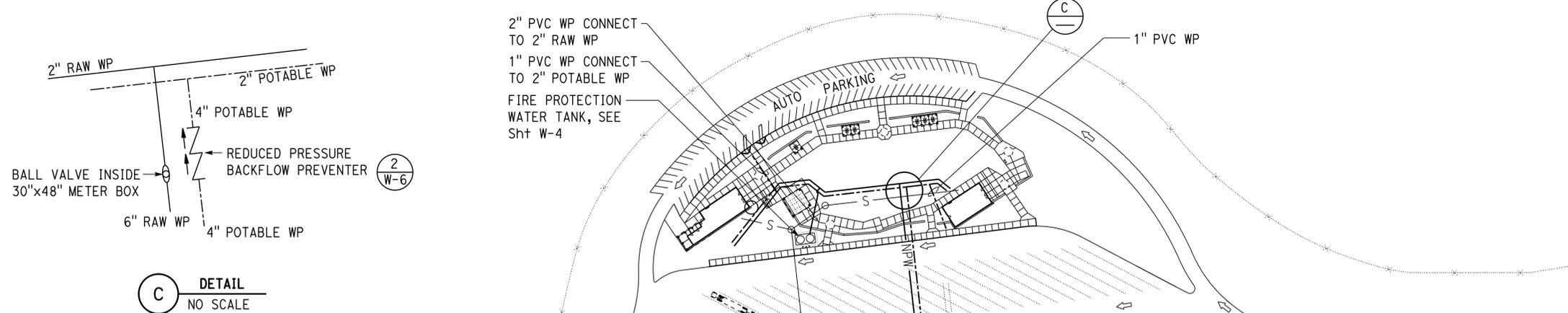
<i>Jerome R. Marcotte</i> DESIGN SUPERVISOR <i>Jerome R. Marcotte</i> DESIGN ENGINEER	DESIGN	BY A Quan	CHECKED J Marcotte	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN</b>	BRIDGE No.	<b>C. V. KANE</b> <b>SAFETY ROADSIDE REST AREA REHABILITATION</b> EXISTING SITE PLAN	SHEET <b>W-1</b> OF
	DETAILS	BY Cynthia Pierce	CHECKED J Marcotte			540004R/L		
QUANTITIES	BY A Quan	CHECKED J Marcotte	R107.3					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 09-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	255	263

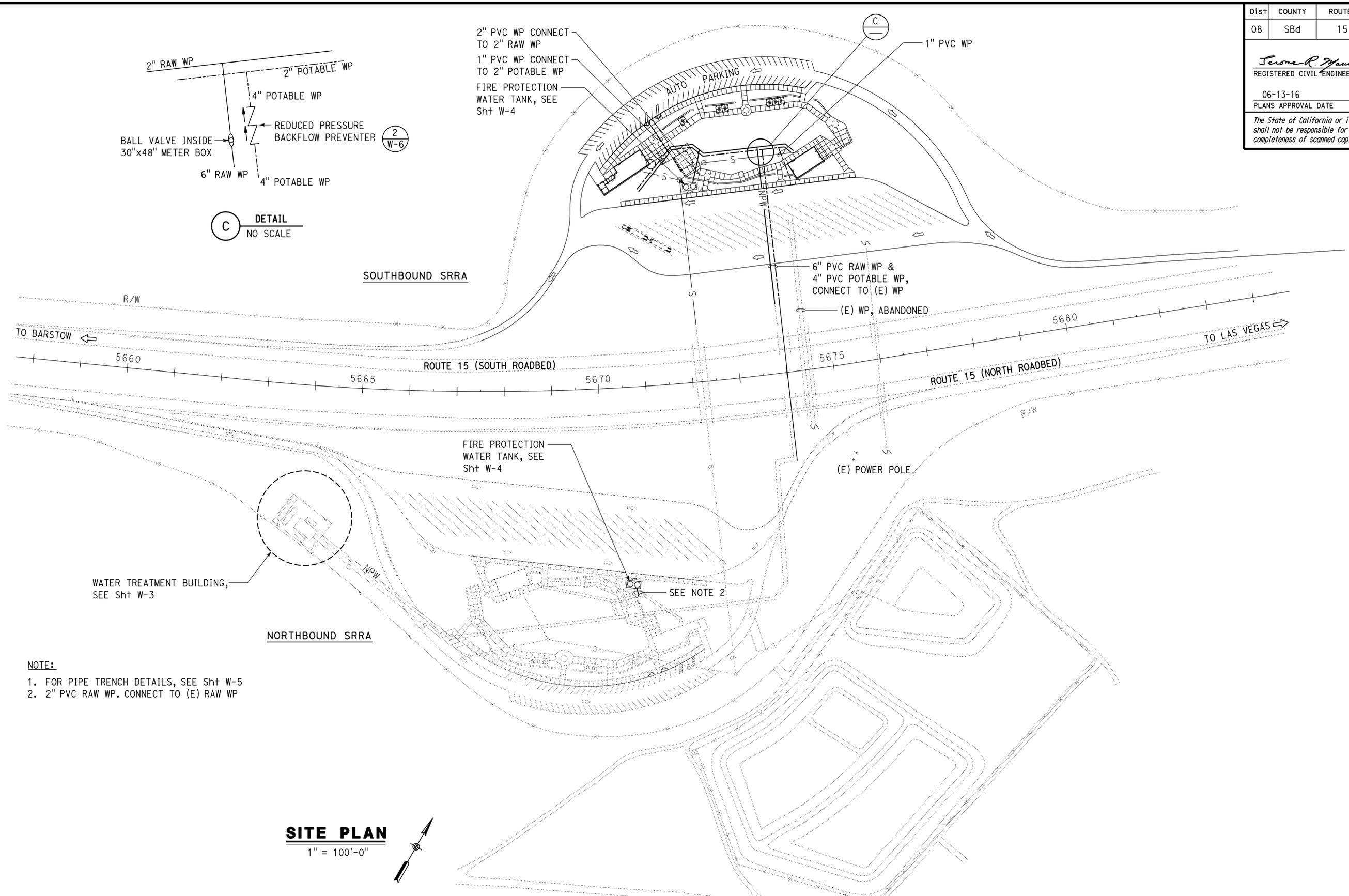
*Jerome R. Marcotte* 11-20-15  
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 06-13-16  
 PLANS APPROVAL DATE  
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**J. Marcotte**  
 No. C36844  
 Exp. 06-30-18  
 CIVIL  
 STATE OF CALIFORNIA

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**INGRID P. CASIANO**  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



2" PVC WP CONNECT TO 2" RAW WP  
 1" PVC WP CONNECT TO 2" POTABLE WP  
 FIRE PROTECTION WATER TANK, SEE Sht W-4



- NOTE:**
- FOR PIPE TRENCH DETAILS, SEE Sht W-5
  - 2" PVC RAW WP. CONNECT TO (E) RAW WP

**SITE PLAN**  
 1" = 100'-0"

THIS PLAN APPROVED FOR WATER WORK ONLY

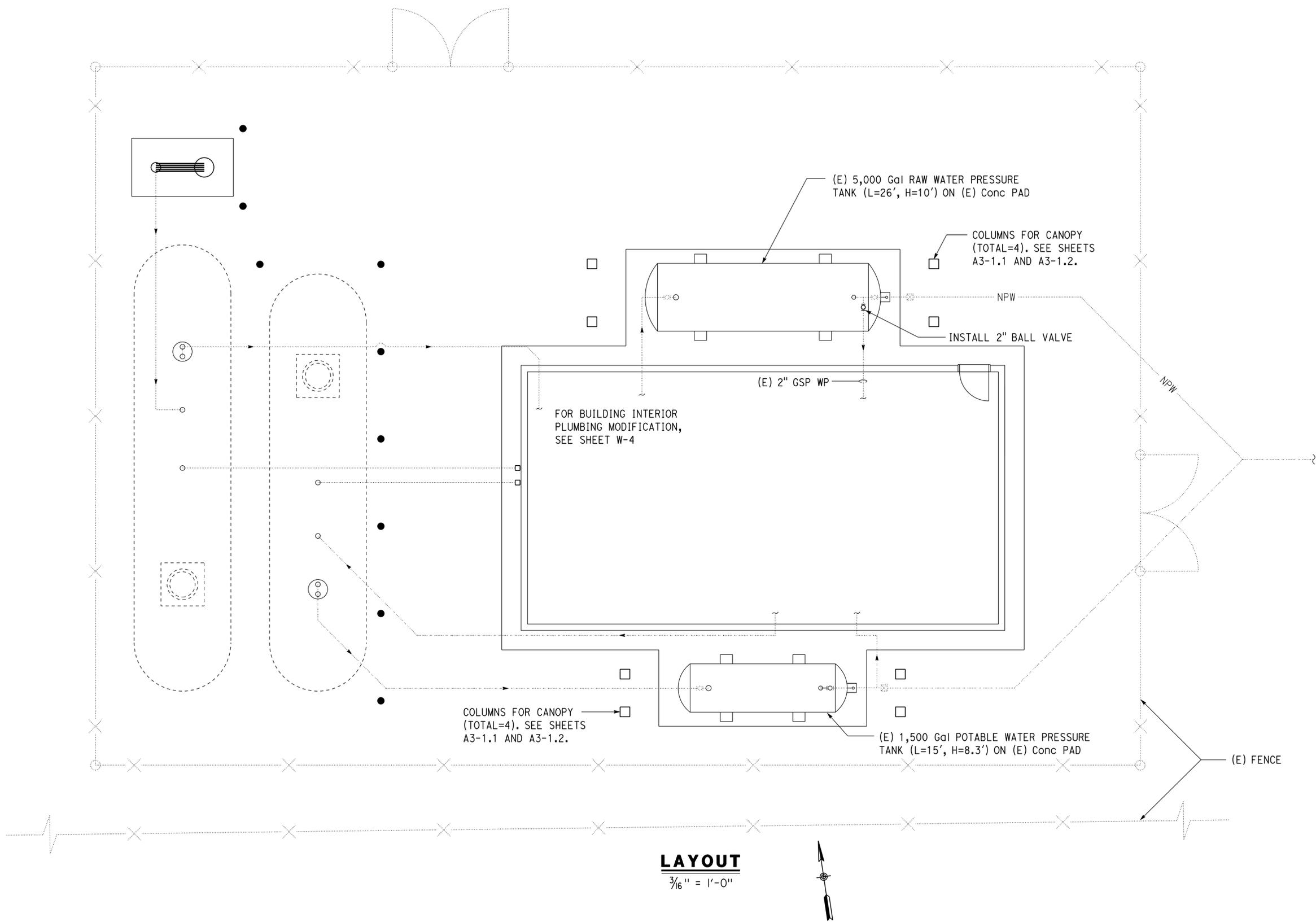
	DESIGN BY A Quan CHECKED J Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L POST MILE R107.3	<b>C. V. KANE</b> <b>SAFETY ROADSIDE REST AREA REHABILITATION</b> MODIFIED SITE PLAN	SHEET W-2 OF
DETAILS BY Cynthia Pierce CHECKED J Marcotte	QUANTITIES BY A Quan CHECKED J Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841 EA 06840	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	256	263

Jerome R. Marcotte 11-20-15  
 REGISTERED CIVIL ENGINEER DATE  
 06-13-16  
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 Reviewed by: Ingrid P. Casiano  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



**LAYOUT**  
3/16" = 1'-0"



THIS PLAN APPROVED FOR WATER WORK ONLY

DESIGN BY A Quan CHECKED J Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	C. V. KANE SAFETY ROADSIDE REST AREA REHABILITATION	SHEET W-3
			POST MILE R107.3		
DETAILS BY Cynthia Pierce CHECKED J Marcotte	UNIT: 3616 CONTRACT No.: 08-0G8424	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
QUANTITIES BY A Quan CHECKED J Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	PROJECT NUMBER & PHASE: 08140001841	09-21-13		

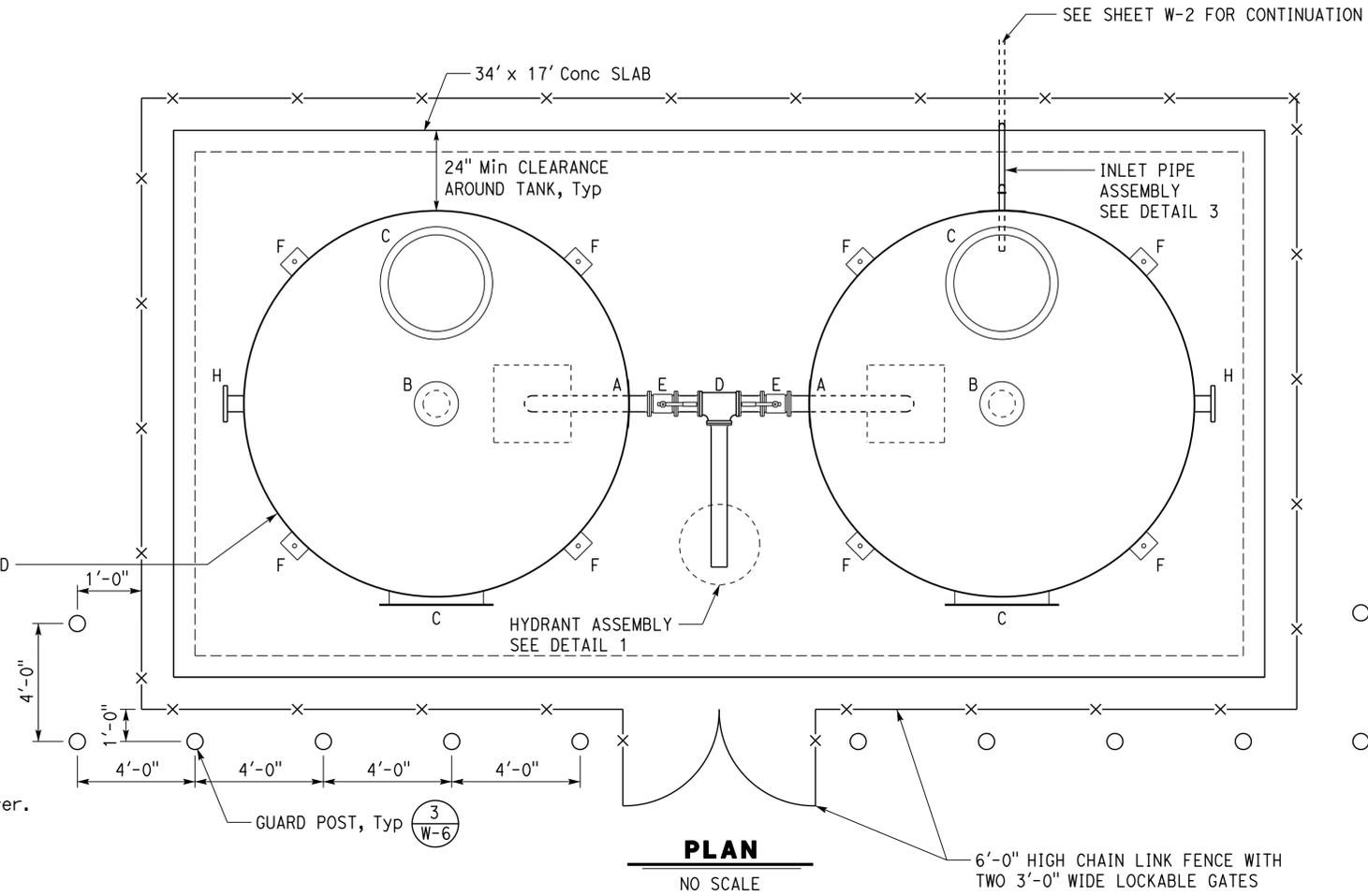
LEGEND	
A	Ø6" STEEL FLANGE WITH INTERNAL VORTEX BREAKER PER NFPA 22
B	HOOD VENT
C	24" MANWAY
D	FLANGED TEE WITH SUPPORT
E	Ø6" FLANGED BALL VALVE
F	HOLD DOWN ANCHORS, PER MANUFACTURER
G	PIPE SUPPORT, SEE NOTE 3 AND DETAIL 2
H	Ø6" STEEL FLANGE OVERFLOW, SCREENED
I	WATER LEVEL INDICATOR
J	AUTOMATIC FILL FLOAT VALVE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	257	263

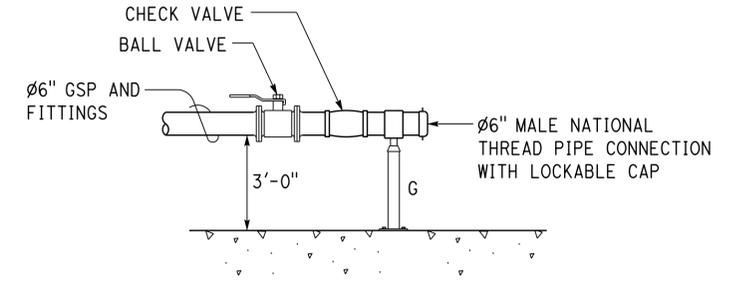
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 Reviewed by: *Ingrid P. Casiano*  
 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

*Jerome R. Yant* 11-20-15  
 REGISTERED CIVIL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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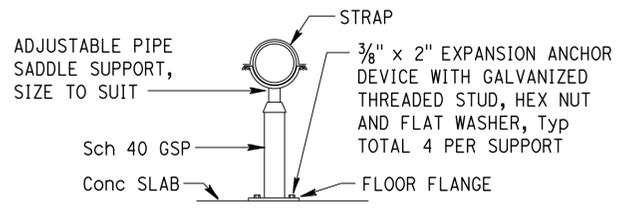
REGISTERED PROFESSIONAL ENGINEER  
 J. Marcotte  
 No. C36844  
 Exp. 06-30-18  
 CIVIL  
 STATE OF CALIFORNIA



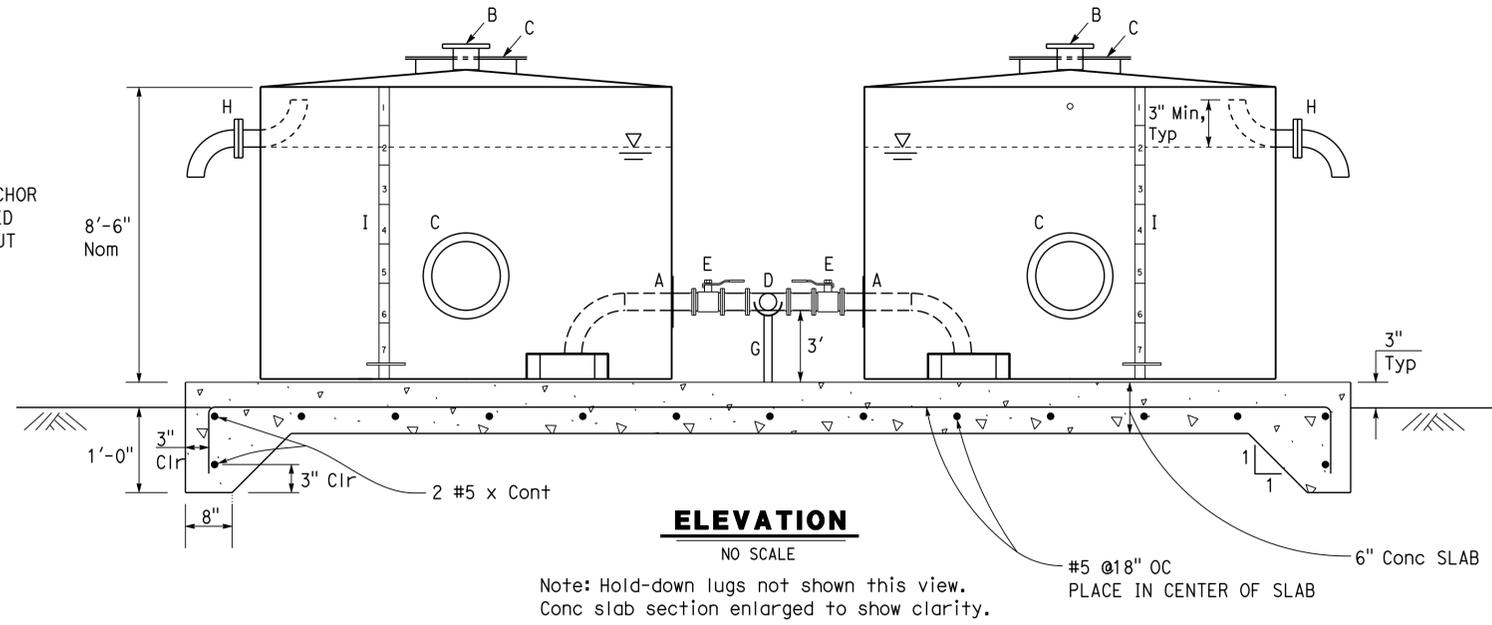
- NOTES:**
- Each tank must hold at least 6,000 gallons of water.
  - See civil plans for chain link fence and gates.
  - Provide exterior ladder and drain outlet.
  - Exterior tank color to be Federal Standard 595C - Color# 27780.



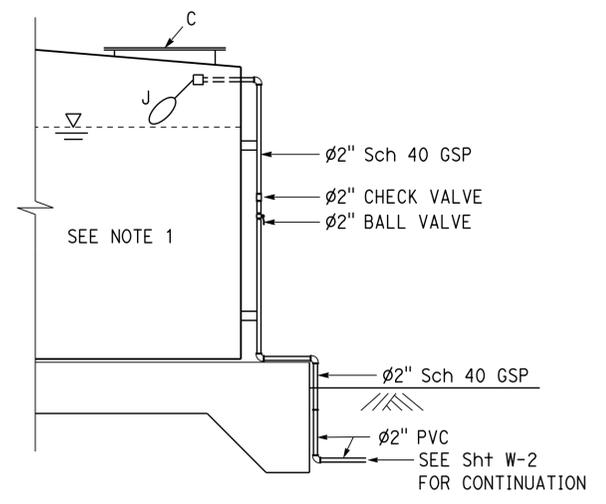
**1 HYDRANT ASSEMBLY**  
NO SCALE



**2 PIPE SUPPORT**  
NO SCALE



**ELEVATION**  
NO SCALE



**3 INLET PIPE ASSEMBLY**  
NO SCALE

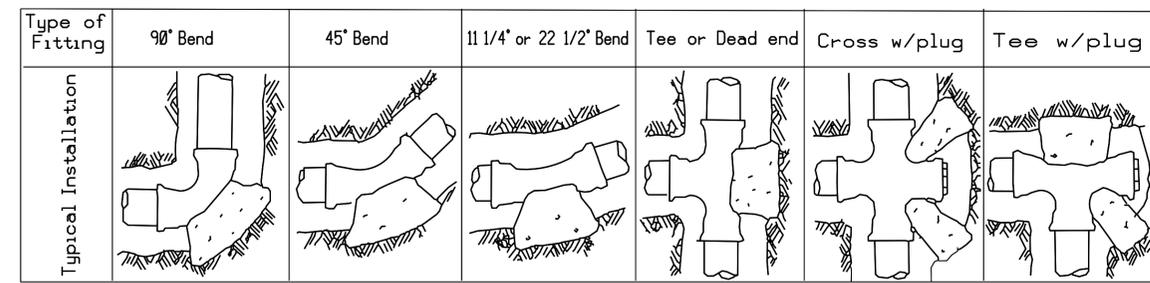
THIS PLAN APPROVED FOR WATER WORK ONLY

DESIGN	BY A Quan	CHECKED J Marcotte	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>C. V. KANE</b> SAFETY ROADSIDE REST AREA REHABILITATION FIRE PROTECTION WATER TANK DETAILS	SHEET	
DETAILS	BY Cynthia Pierce	CHECKED J Marcotte			540004R/L		POST MILE	W-4
QUANTITIES	BY A Quan	CHECKED J Marcotte			R107.3			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 UNIT: 3616 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 9-21-15  
 REVISION DATES (PRELIMINARY STAGE ONLY):  
 TAEWW Imperial - CCSC Rev. 02/13  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	258	263

*Jerome R. Marcotte* 11-20-15  
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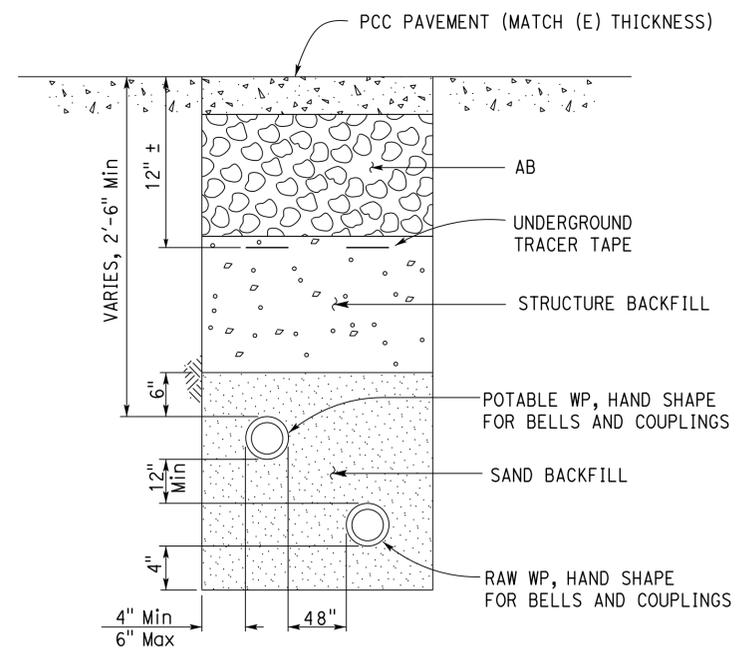
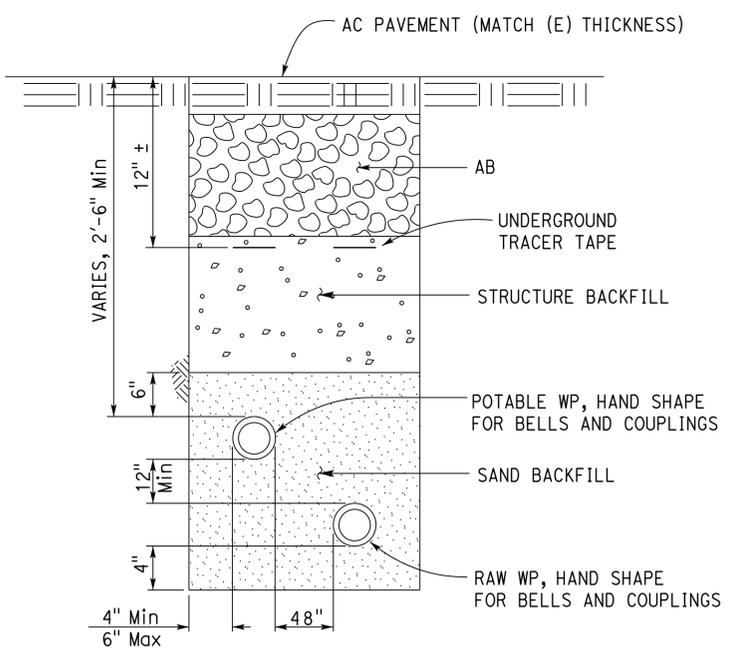
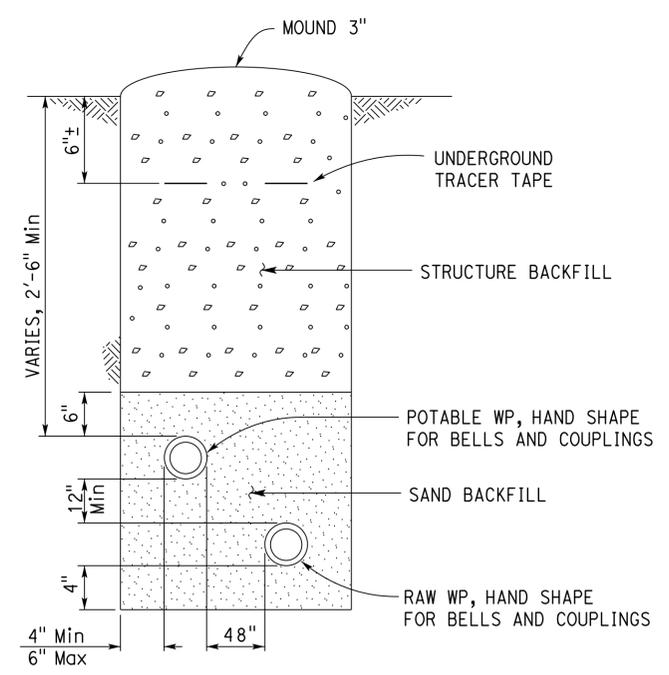


### THRUST BLOCK BEARING AREA (sq ft)

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Tee w/ Plug	Cross w/ plug
4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

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 Reviewed by: *Ingrit P. Icastano*  
 INGRIT P. ICASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

### THRUST BLOCKS FOR WATER LINES



### WATER PIPE DETAILS

NO SCALE

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DESIGN BY A Quan	CHECKED J Marcotte	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	C. V. KANE	SHEET W-5
				540004R/L		
DETAILS BY Cynthia Pierce	CHECKED J Marcotte	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R107.3	SAFETY ROADSIDE REST AREA REHABILITATION	
QUANTITIES BY A Quan	CHECKED J Marcotte				WATER PIPE DETAILS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13					09-21-16	

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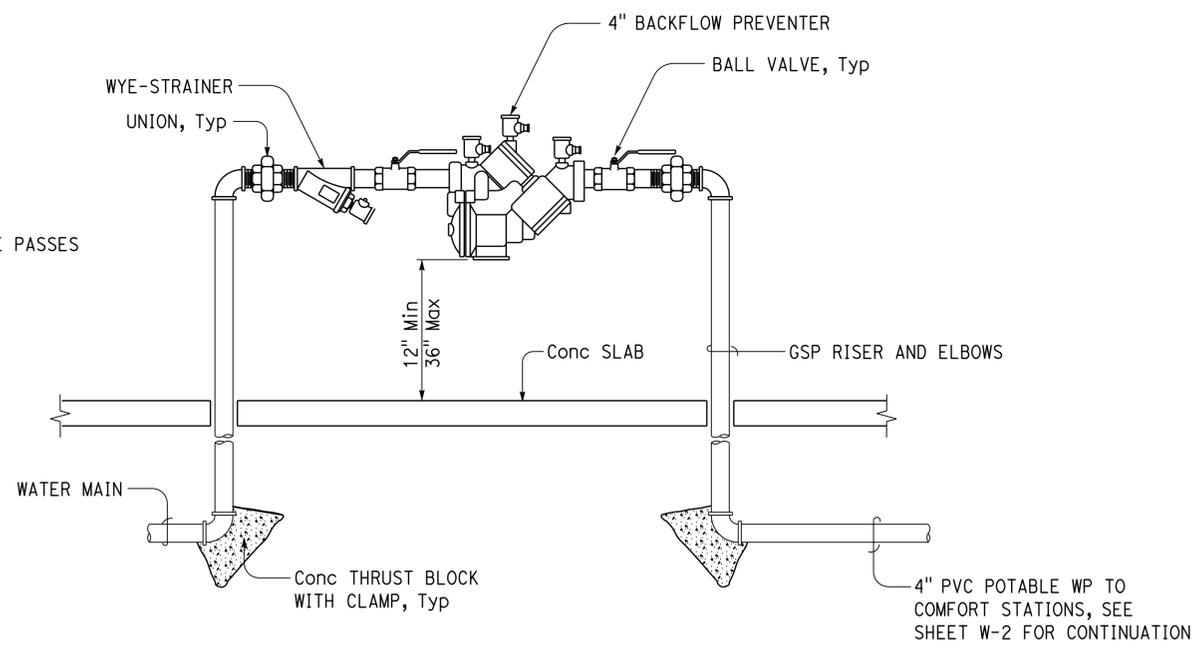
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	259	263

*Jerome R. Marcotte* 11-20-15  
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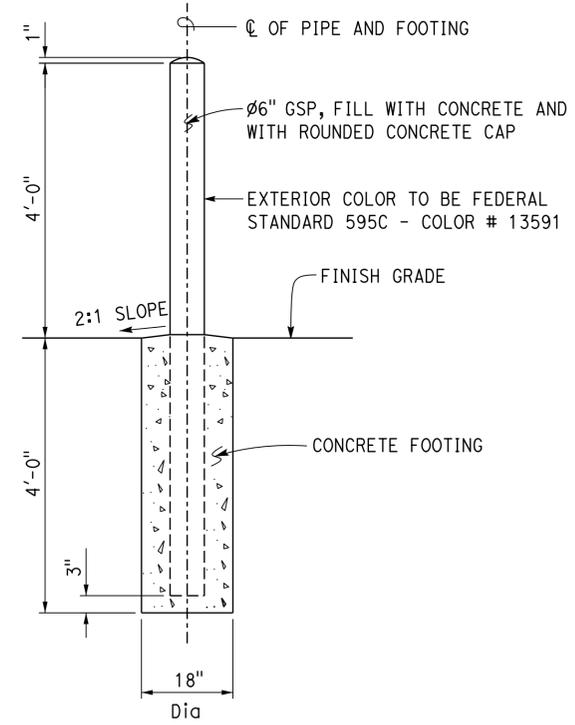


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 INGRID P. CASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066

**NOTE:**  
 USE PIPE SLEEVE WHEN PIPE PASSES THROUGH CONCRETE PAD.



**2 REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY**  
 NO SCALE



**3 GUARD POST DETAIL**  
 NO SCALE

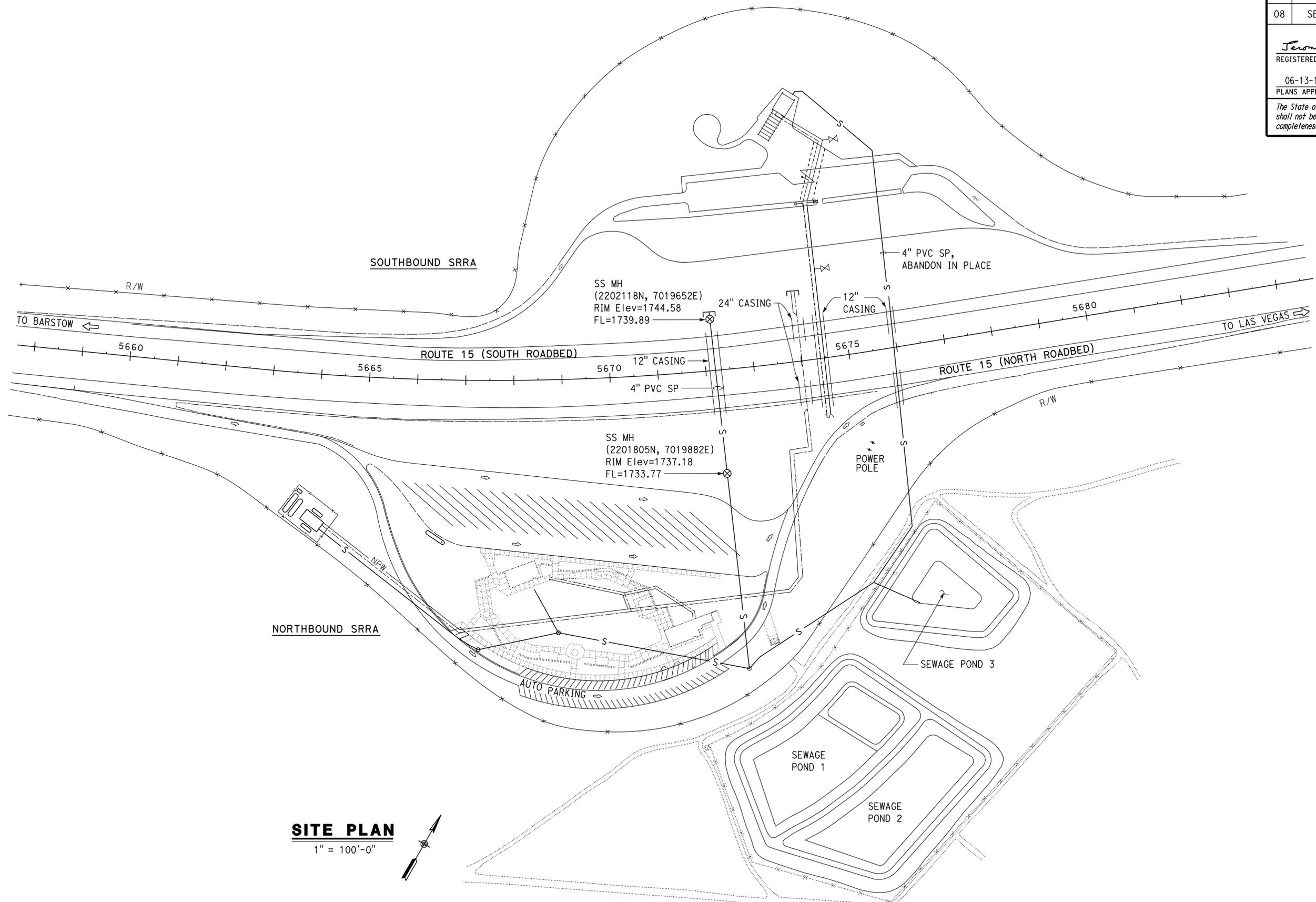
DESIGN	BY A Quan	CHECKED J Marcotte	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	<b>C. V. KANE</b> SAFETY ROADSIDE REST AREA REHABILITATION	SHEET <b>W-6</b>
	DETAILS	BY Cynthia Pierce			CHECKED J Marcotte		
QUANTITIES	BY A Quan	CHECKED J Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	POST MILE R107.3	REVISION DATES (PRELIMINARY STAGE ONLY) 09-21-13	SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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*Jerome R. Marcotte*  
REGISTERED CIVIL ENGINEER  
DATE 11-20-15  
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Reviewed by: *Ingris P. Casiano*  
INGRIS P. CASIANO  
Approval date: 07-02-16  
SFM No: 01-36-11-0066



**SITE PLAN**  
1" = 100'-0"

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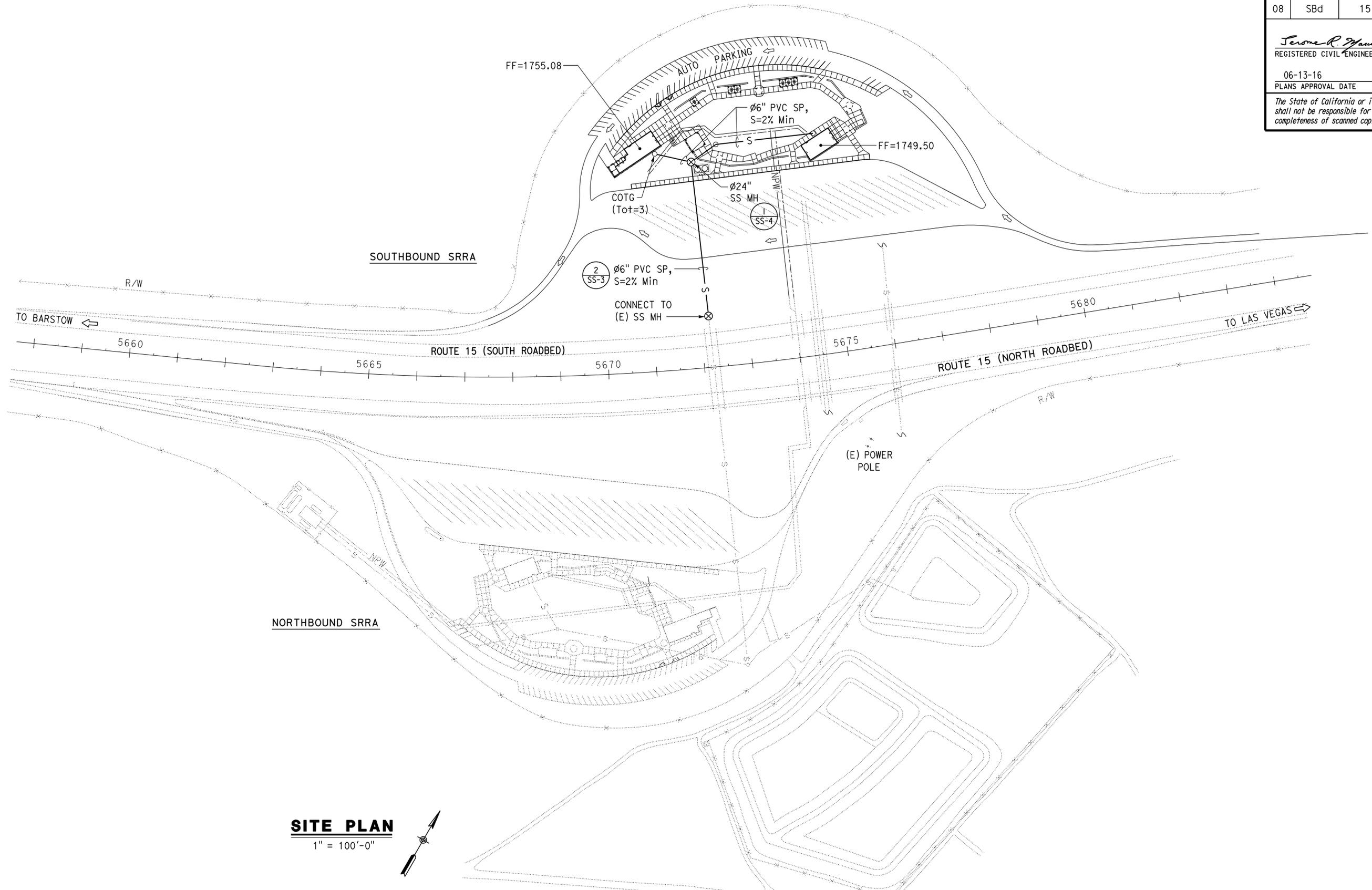
<i>Josander S. Gu</i> DESIGN SUPERVISOR <i>Jerome R. Marcotte</i> DESIGN ENGINEER	DESIGN BY A Quan	CHECKED J Marcotte	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	<b>C. V. KANE</b> <b>SAFETY ROADSIDE REST AREA REHABILITATION</b> EXISTING SITE PLAN	SHEET <b>SS-1</b> OF
	DETAILS BY Cynthia Pierce	CHECKED J Marcotte			POST MILE R107.3		
	QUANTITIES BY A Quan	CHECKED J Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 08-0G8424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	R107.3	261	263

*Jerome R. Marcotte* 11-20-15  
 REGISTERED CIVIL ENGINEER DATE  
 06-13-16  
 PLANS APPROVAL DATE  
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 Reviewed by: *Ingrid P. Castano*  
 INGRID P. CASTANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



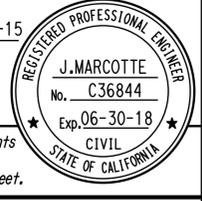
**SITE PLAN**  
 1" = 100'-0"

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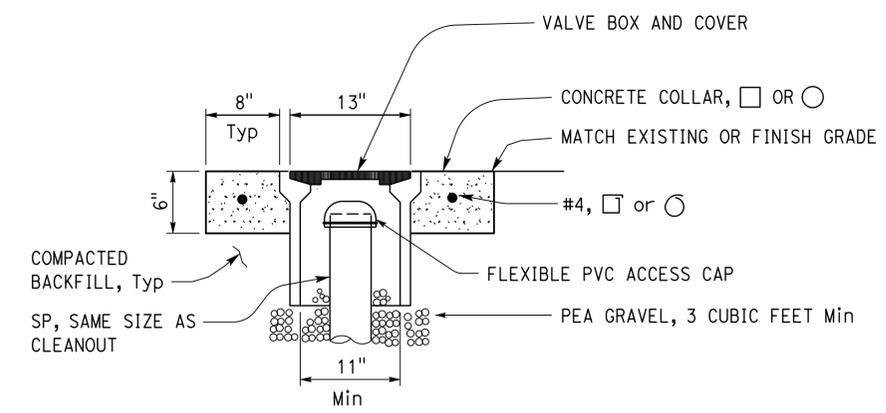
DESIGN BY A Quan	CHECKED J Marcotte	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 540004R/L	<b>C. V. KANE</b> SAFETY ROADSIDE REST AREA REHABILITATION MODIFIED SITE PLAN	SHEET SS-2	
	DETAILS BY Cynthia Pierce			CHECKED J Marcotte			POST MILE R107.3
QUANTITIES BY A Quan	CHECKED J Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	15	R107.3	262	263

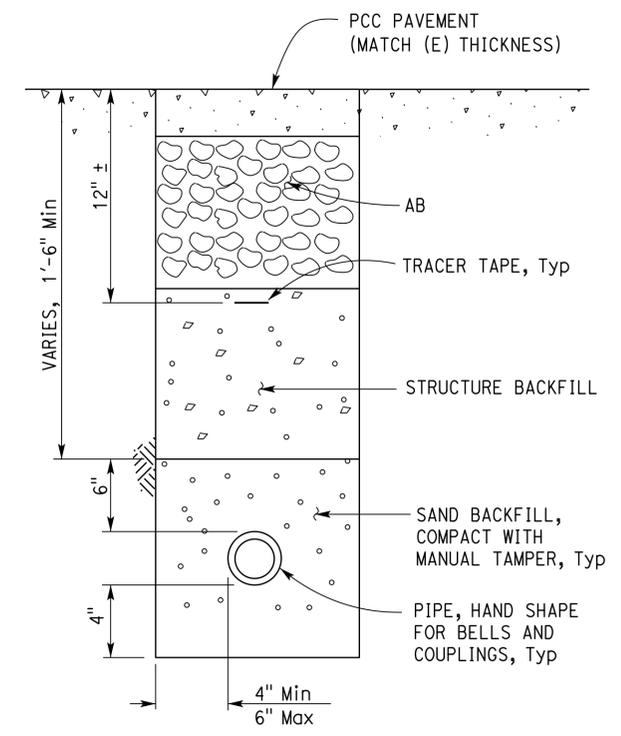
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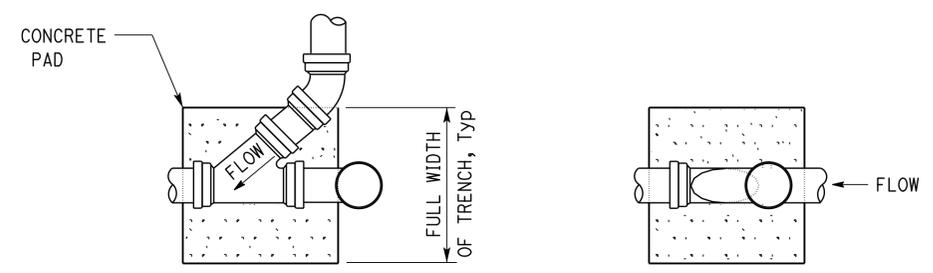
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 INGRID P. CASIANO  
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**A COTG IN VALVE BOX**  
NO SCALE

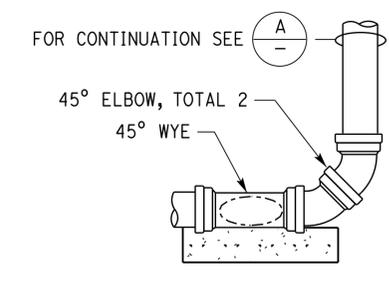


**2 PIPE SECTION DETAIL**  
NO SCALE



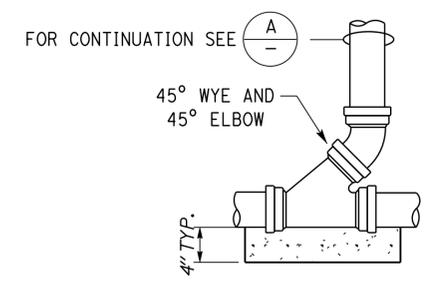
**PLAN**

**PLAN**



**ELEVATION**

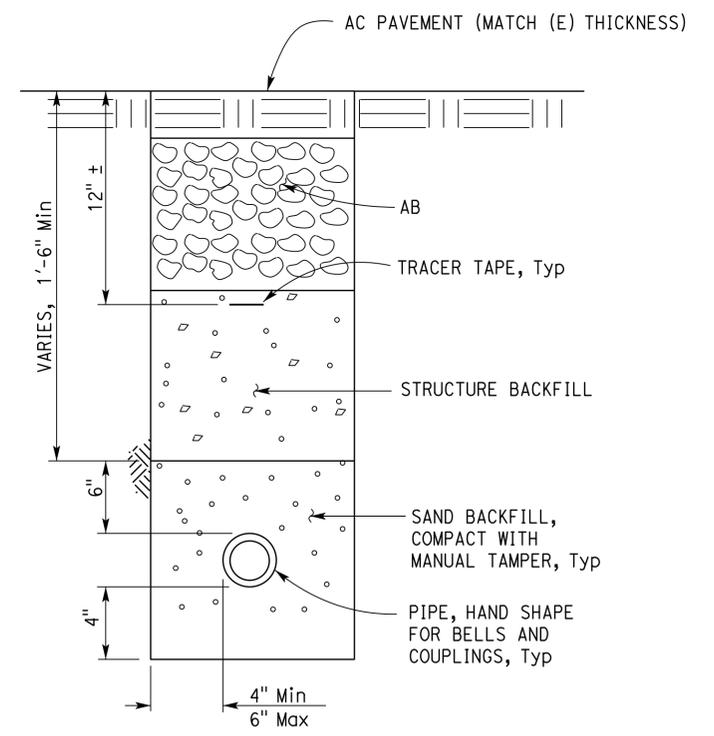
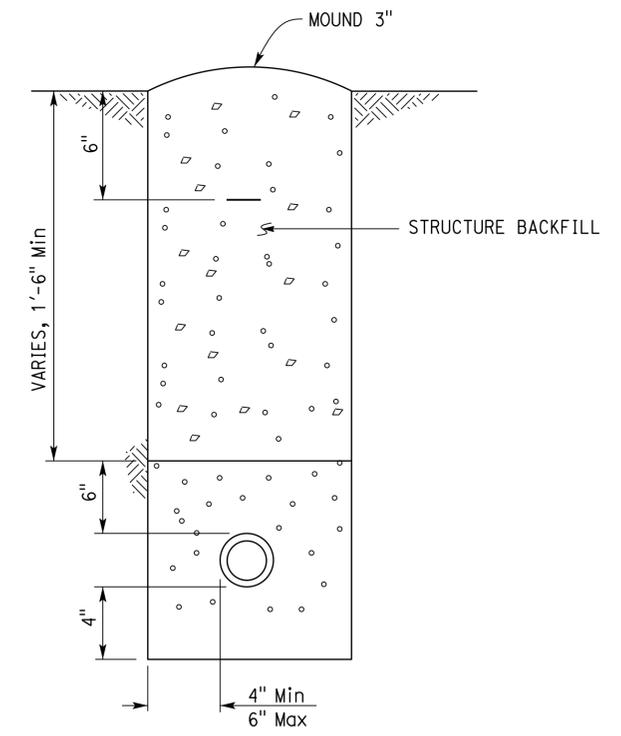
**CLEANOUT (AT BEND)**



**ELEVATION**

**CLEANOUT (STANDARD)**

**1 CLEANOUT TO GRADE**  
NO SCALE

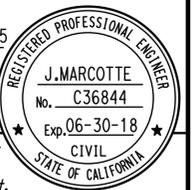


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	DETAILS BY Cynthia Pierce	CHECKED J Marcotte			540004R/L		
	QUANTITIES BY A Quan	CHECKED J Marcotte			POST MILE R107.3		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13					09-21-15		

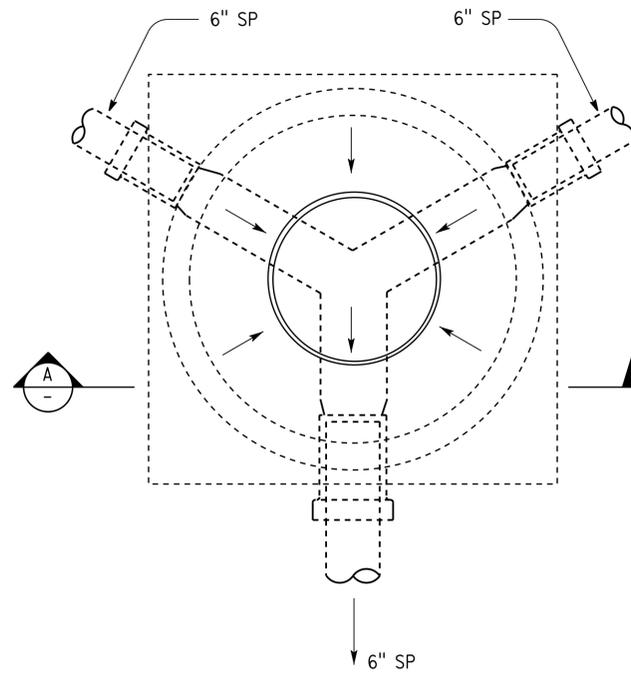
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*Jerome R. Marcotte* 11-20-15  
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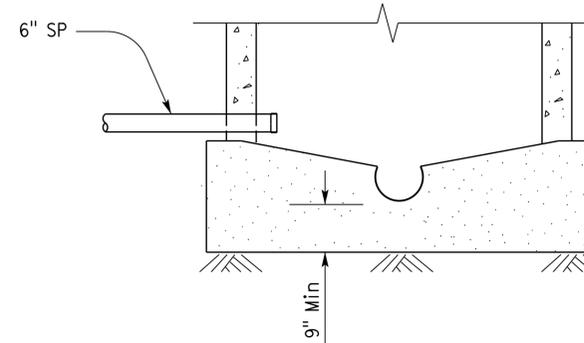


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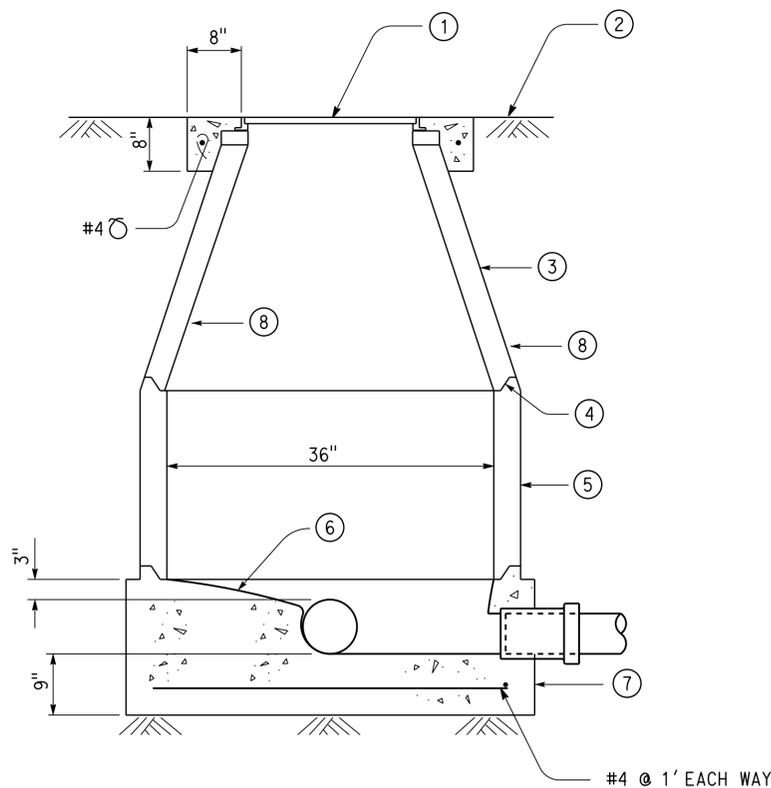
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 INGRID P. ICASIANO  
 Approval date: 07-02-16  
 SFM No: 01-36-11-0066



**1 MANHOLE PLAN**  
NO SCALE



**A SECTION**  
NO SCALE



**ELEVATION**  
NO SCALE

**Notes:**

- ①  $\varnothing 24$ " manhole frame and cover, match existing grade.
- ② Slope finish grade away from manhole.
- ③ Concentric cone section, height as required.
- ④ All pipe joints must be sealed watertight per manhole manufacturer's recommendation, or if none, with epoxy mortar or joint sealant.
- ⑤ Concrete barrel, height as required.
- ⑥ Slope concrete as required to form flow line.
- ⑦ Precast concrete base with cast in pipe sections or couplings. Flow line elevations to match plan elevations and slope.
- ⑧ Coat all interior and exterior surfaces of manhole with bituminous coating.

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			540004R/L POST MILE R107.3		
DETAILS BY Cynthia Pierce CHECKED J Marcotte					
QUANTITIES BY A Quan CHECKED J Marcotte					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3616 CONTRACT No.: 08-068424 PROJECT NUMBER & PHASE: 08140001841	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13				11-20-15	