

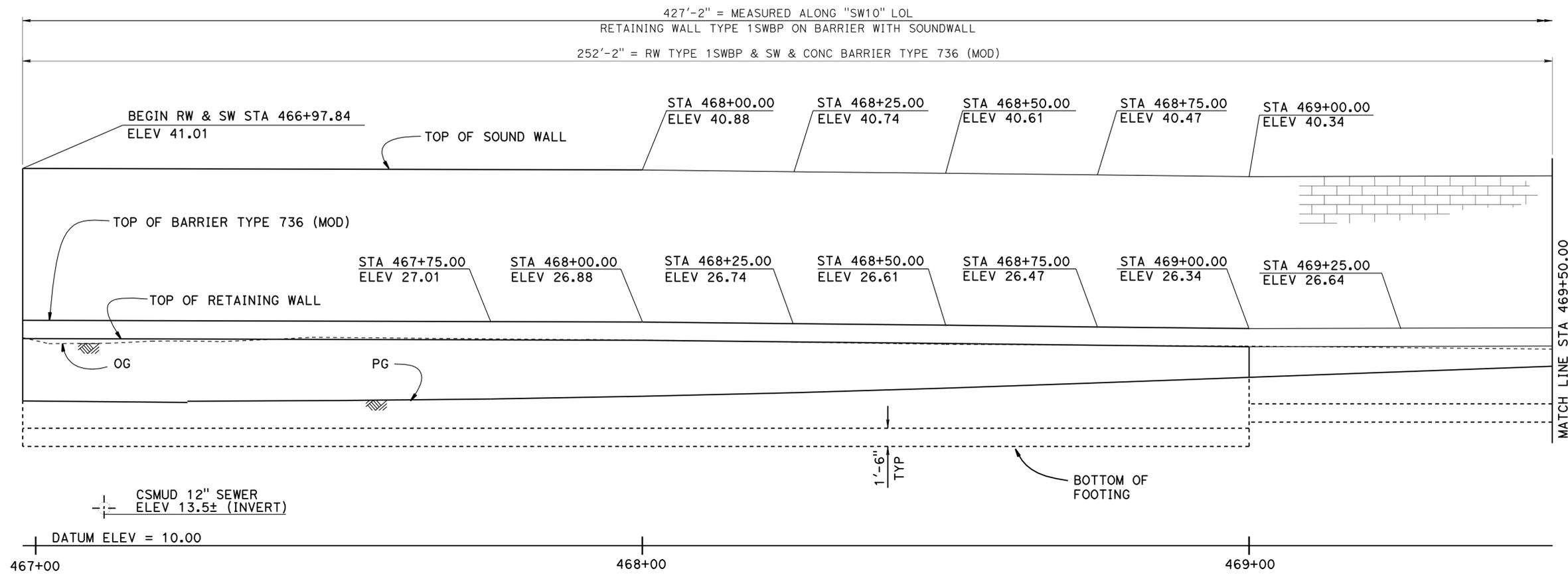
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1301	1414

*Chris V. Udarbe* 11-04-11  
REGISTERED CIVIL ENGINEER DATE

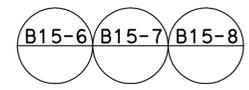
3-26-12  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
CHRIS UDARBE  
No. C62985  
Exp. 06-30-12  
CIVIL  
STATE OF CALIFORNIA

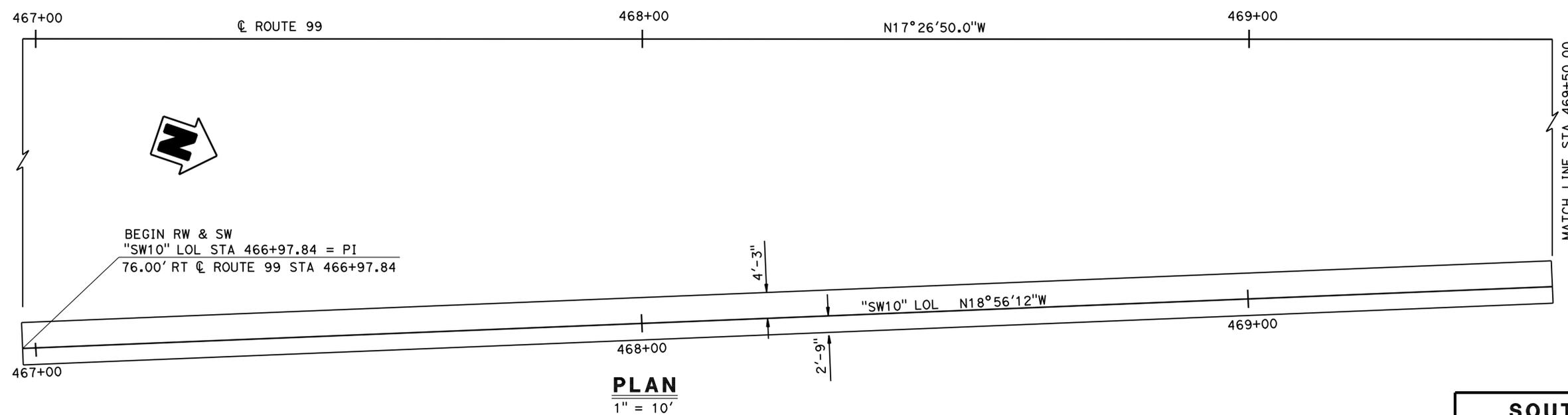
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**MIRRORED ELEVATION**  
VERT: 1" = 5'  
HORIZ: 1" = 10'



- Note:
- For additional details, see "STRUCTURE PLAN NO.2 & "XS" sheets
  - For architectural treatment, see "ARCHITECTURAL DETAILS NO. 1 & NO. 2" sheets



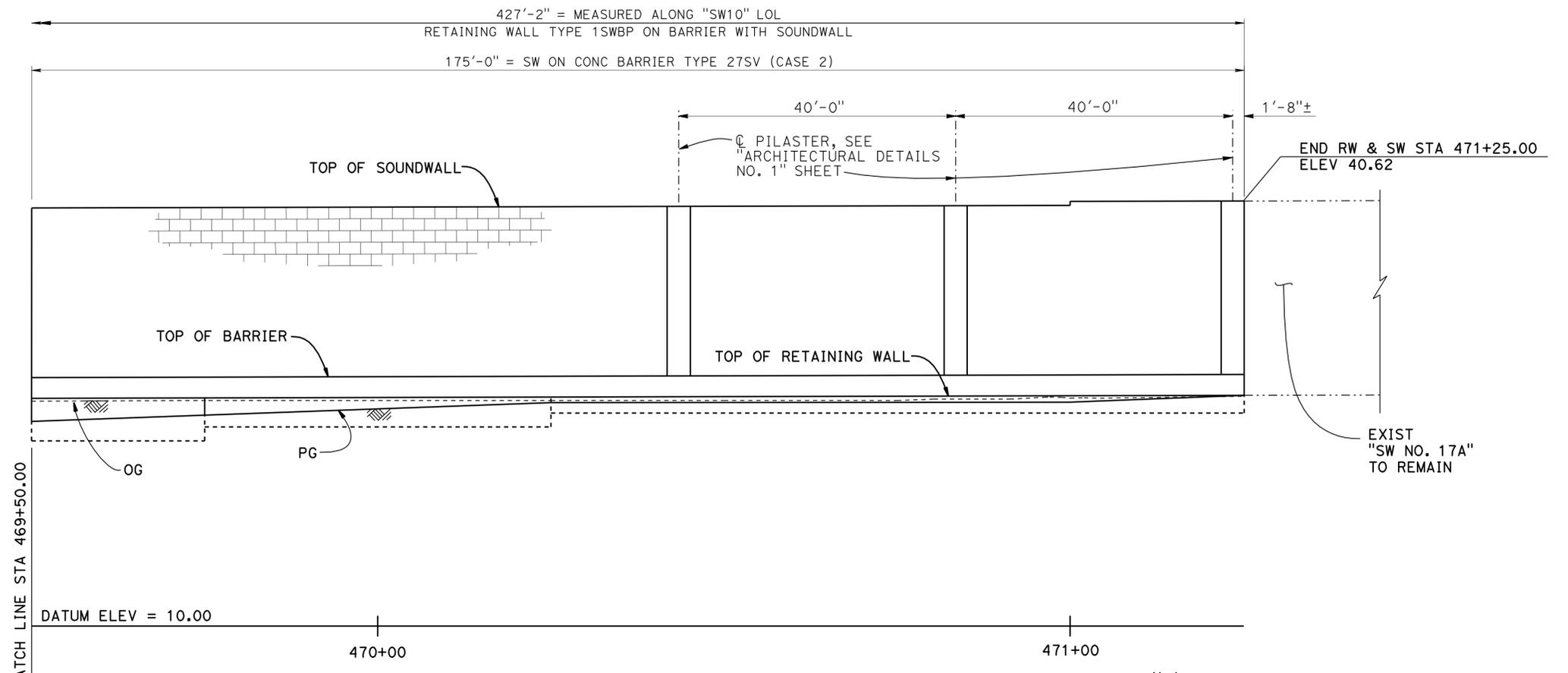
**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**STRUCTURE PLAN NO. 1**

DESIGN BY C. Udarbe	CHECKED R. Coria	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 29E0010
DETAILS BY G. Leung	CHECKED C. Udarbe		POST MILE 18.15
QUANTITIES BY P. Vu	CHECKED R. Coria		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1302	1414

REGISTERED CIVIL ENGINEER: *Chris Udarbe*  
 DATE: 11-04-11  
 PLANS APPROVAL DATE: 3-26-12  
 No. C62985  
 Exp. 06-31-12  
 CIVIL  
 STATE OF CALIFORNIA

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

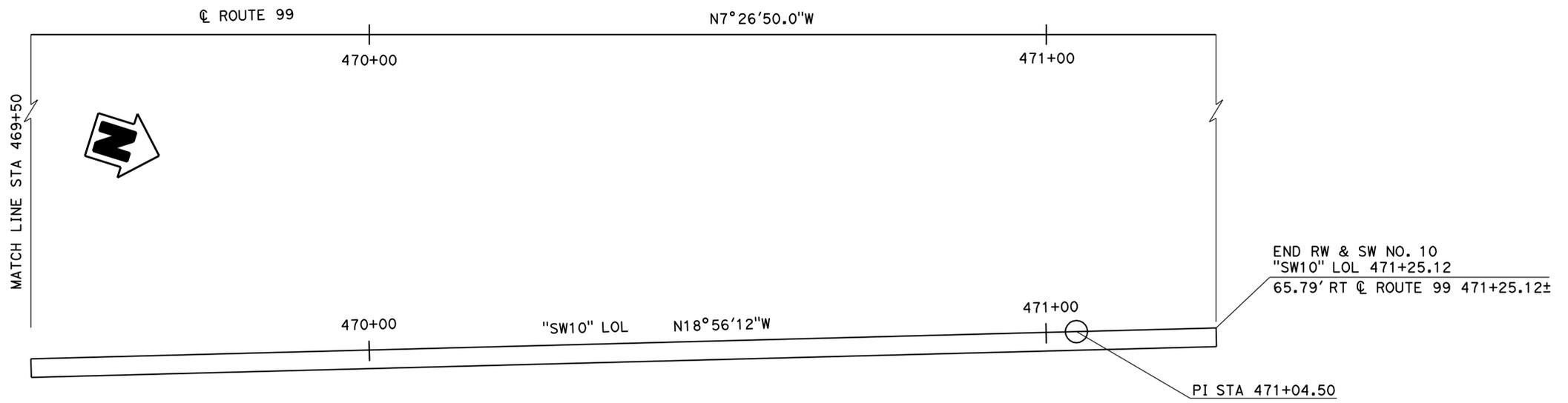


**MIRRORED ELEVATION**

VERT: 1" = 5'  
 HORIZ: 1" = 10'

**Notes:**

1. For additional details see "XS" sheets
2. For architectural treatment see "ARCHITECTURAL DETAILS NO.1 & NO.2" sheets



**PLAN**  
 1" = 10'

**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**STRUCTURE PLAN NO. 2**

DESIGN	BY C. Udarbe	CHECKED R. Coria
DETAILS	BY G. Leung	CHECKED C. Udarbe
QUANTITIES	BY P. Vu	CHECKED R. Coria

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 STRUCTURE DESIGN  
**DESIGN BRANCH 17**

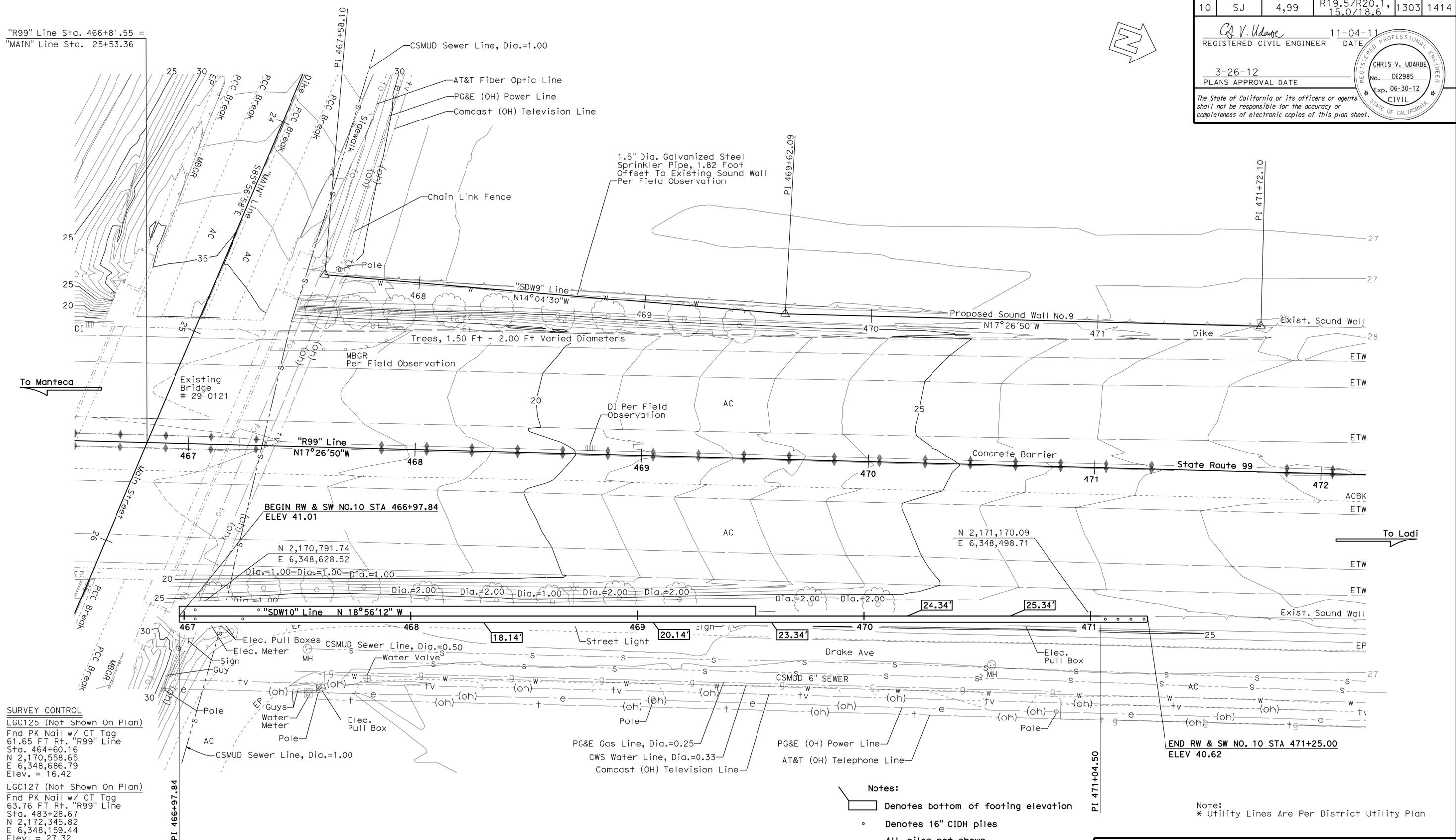
BRIDGE NO.	29E0010
POST MILE	18.15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1303	1414

REGISTERED CIVIL ENGINEER: **CHRIS V. UDARBE**  
 No. C62985  
 Exp. 06-30-12  
 CIVIL  
 DATE: 11-04-11  
 PLANS APPROVAL DATE: 3-26-12

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

"R99" Line Sta. 466+81.55 =  
 "MAIN" Line Sta. 25+53.36



**SURVEY CONTROL**

LGC125 (Not Shown On Plan)  
 Fnd PK Nail w/ CT Tag  
 61.65 FT Rt. "R99" Line  
 Sta. 464+60.16  
 N 2,170,558.65  
 E 6,348,686.79  
 Elev. = 16.42

LGC127 (Not Shown On Plan)  
 Fnd PK Nail w/ CT Tag  
 63.76 FT Rt. "R99" Line  
 Sta. 483+28.67  
 N 2,172,345.82  
 E 6,348,159.44  
 Elev. = 27.32

**Notes:**

- Denotes bottom of footing elevation
- Denotes 16" CIDH piles
- All piles not shown

Note:  
 \* Utility Lines Are Per District Utility Plan

PRELIMINARY INVESTIGATION SECTION	
SCALE: VERT. DATUM NGVD29	PHOTOGRAMMETRY AS OF: X
1"=20'	HORIZ. DATUM NAD83 (1991.35)
ALIGNMENT TIES Dist. Traverse Sheet	DRAFTED BY J. Martinez 9/2009
CHECKED BY T. Gillett 9/2009	CHECKED BY L. Lew 9/2009

DESIGN BY C. Udarbe	CHECKED R. Coria
DETAILS BY L. Wang	CHECKED C. Udarbe
QUANTITIES BY P. Vu	CHECKED R. Coria

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF ENGINEERING SERVICES  
 STRUCTURE DESIGN  
**DESIGN BRANCH 17**

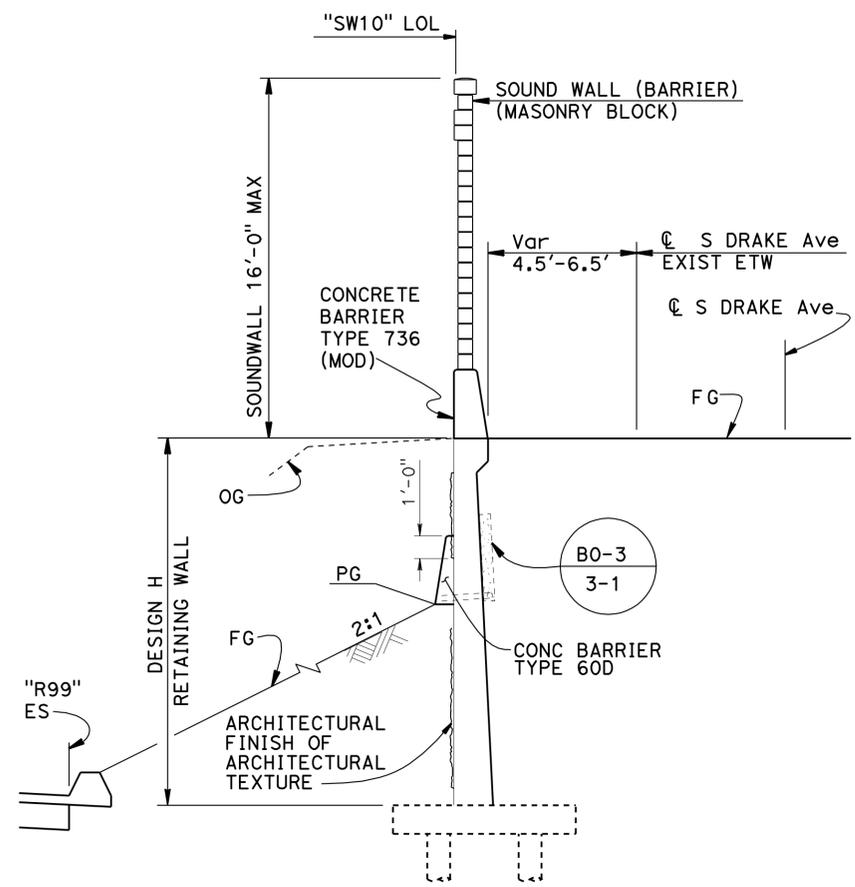
BRIDGE NO.	29E0010
POST MILE	18.15

**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**FOUNDATION PLAN**

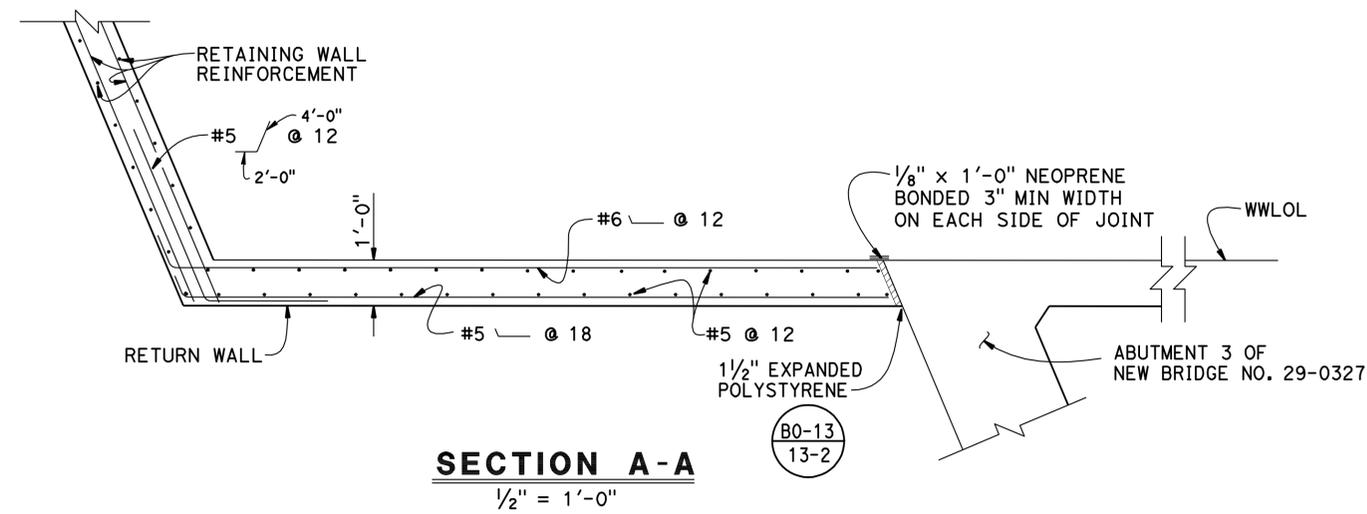
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1304	1414

C.V. Udarbe 11-04-11  
 REGISTERED CIVIL ENGINEER DATE  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

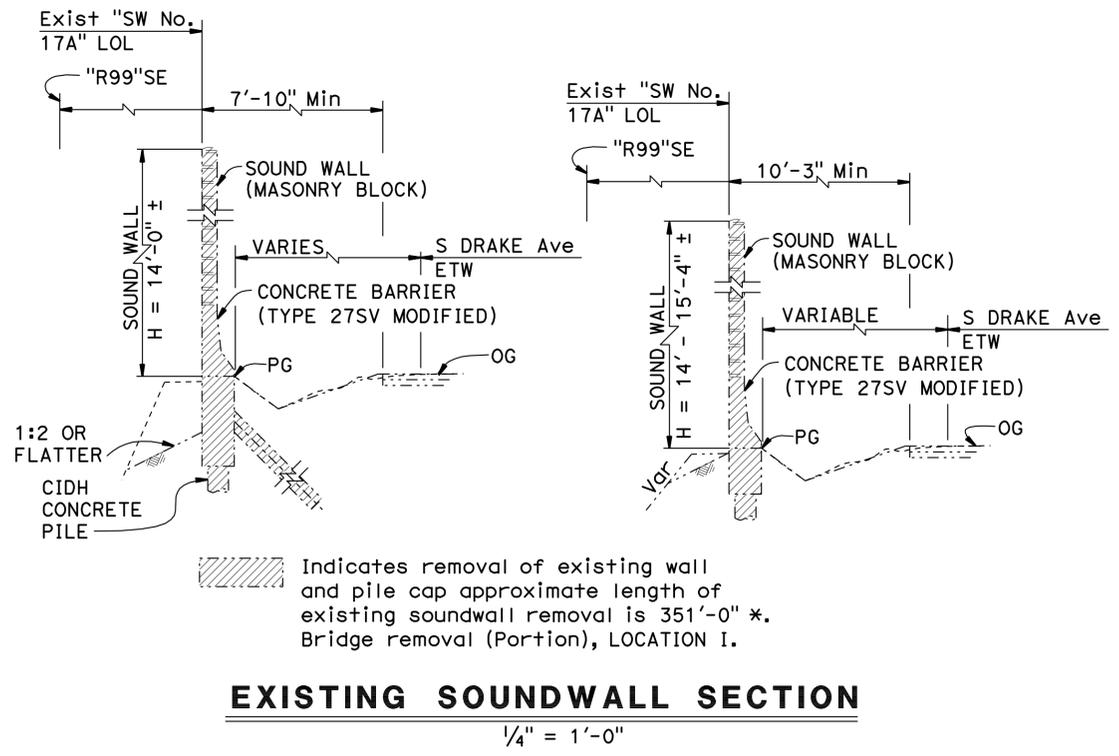
SWLOL	PG	TOP OF RETAINING WALL	TOP OF BARRIER	TOP OF SOUND WALL
466+97.84	21.89	27.01	---	41.01
467+00.00	21.89	27.01	---	41.01
467+25.00	21.86	27.01	---	41.01
467+50.00	21.92	27.01	---	41.01
467+75.00	22.06	27.01	---	41.01
468+00.00	22.27	26.88	---	40.88
468+25.00	22.56	26.74	---	40.74
468+50.00	22.94	26.61	---	40.61
468+75.00	23.38	26.47	---	40.47
469+00.00	23.83	26.34	---	40.34
469+25.00	24.28	26.34	---	40.34
469+50.00	24.74	---	29.34	40.34
469+75.00	25.19	---	29.34	40.34
470+00.00	25.64	---	29.34	40.34
470+25.00	26.10	---	29.34	40.34
470+50.00	26.11	---	29.34	40.34
470+75.00	26.12	---	29.34	40.34
471+00.00	26.13	---	29.34	40.34
471+25.00	26.62	---	26.62	40.62
471+25.12	26.62	---	26.62	40.62



**TYPICAL SECTION**  
1/4" = 1'-0"



**SECTION A-A**  
1/2" = 1'-0"



**EXISTING SOUNDWALL SECTION**  
1/4" = 1'-0"

Indicates removal of existing wall and pile cap approximate length of existing soundwall removal is 351'-0" ±. Bridge removal (Portion), LOCATION I.

DESIGN	BY C. Udarbe	CHECKED R. Coria
DETAILS	BY L. Wang	CHECKED C. Udarbe
QUANTITIES	BY P. Vu	CHECKED R. Coria

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
DESIGN BRANCH 17

BRIDGE NO.	29E0010
POST MILE	18.15

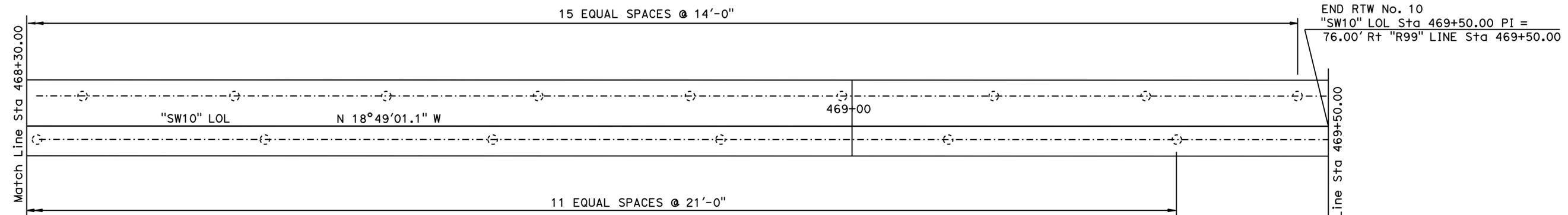
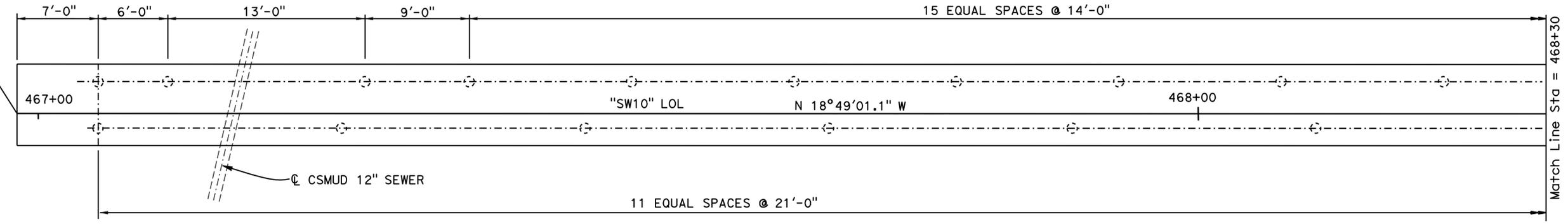
**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**TYPICAL SECTION**

REVISION DATES	SHEET	OF
06-29-10	5	18

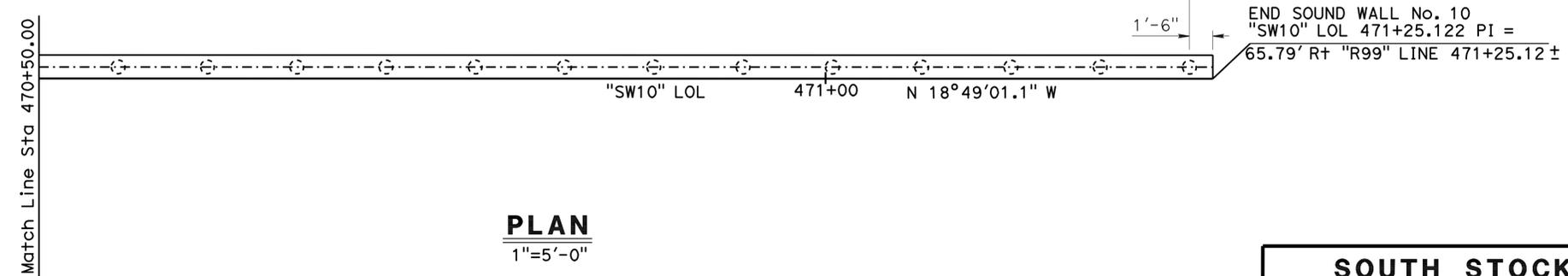
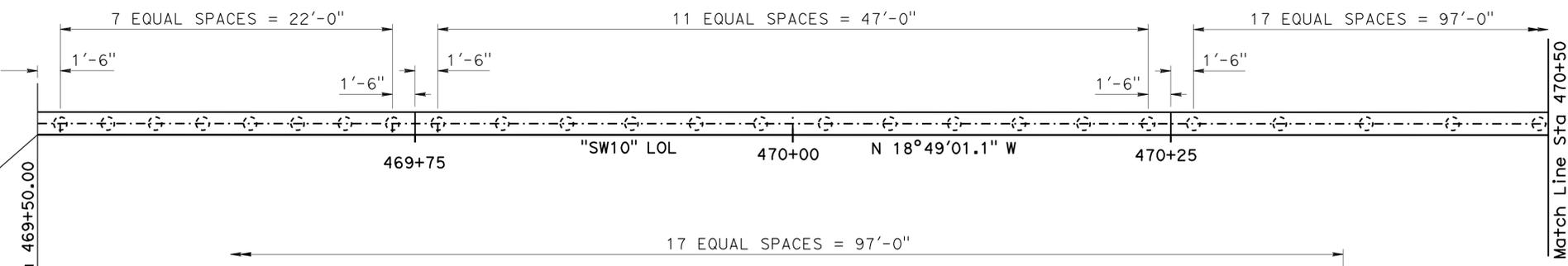
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1305	1414
			REGISTERED CIVIL ENGINEER	DATE	
			11-04-11		
			PLANS APPROVAL DATE		
			3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



BEGIN RTW No. 10  
 "SW10" LOL Sta 466+97.84 PI =  
 76.00' R+ "R99" LINE Sta 466+97.84



BEGIN SOUND WALL No. 10  
 "SW10" LOL 469+50.00  
 65.79' R+ "R99" LINE 471+25.12 ±

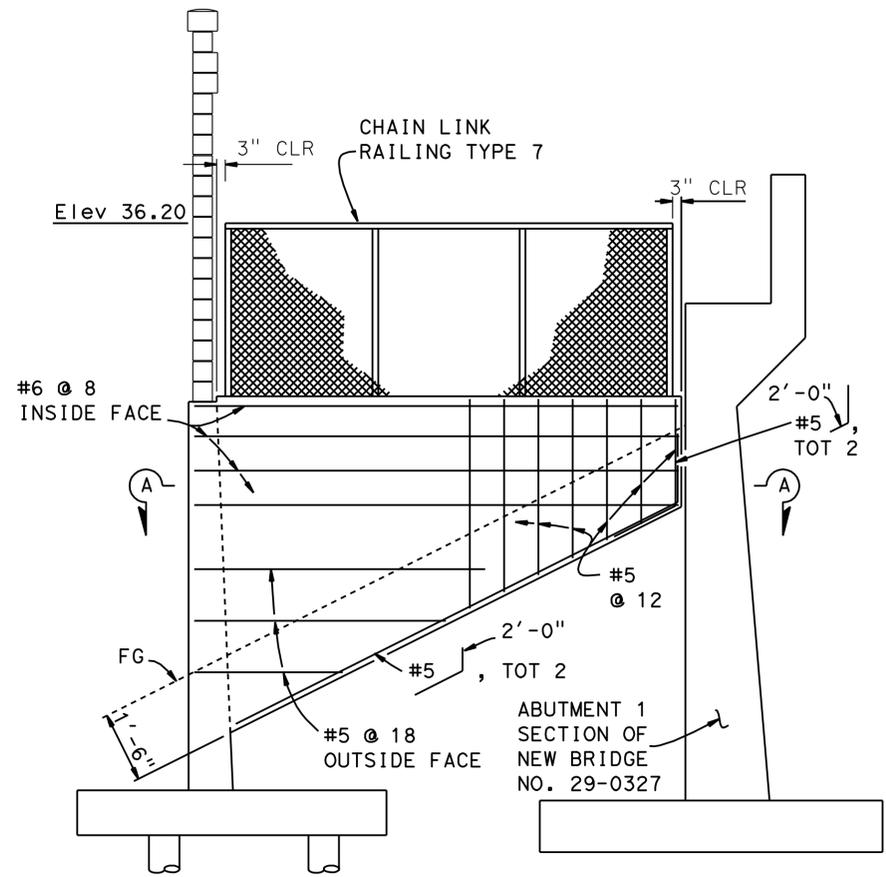


**PLAN**  
 1"=5'-0"

**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**PILE DETAILS**

DESIGN	BY C. Udarbe	CHECKED R. Coria	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 17</b>	BRIDGE NO.	29E0010
DETAILS	BY G. Leung	CHECKED C. Udarbe			POST MILE	18.15
QUANTITIES	BY P. Vu	CHECKED R. Coria				

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1306	1414
			REGISTERED CIVIL ENGINEER	DATE	
			11-04-11		
			PLANS APPROVAL DATE		
			3-26-12		
REGISTERED PROFESSIONAL ENGINEER CHRIS UDARBE No. C62985 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



**RETURN WALL ELEVATION**  
NO SCALE

Note:  
For Section A-A, see "TYPICAL SECTION" sheet

SUPPORT LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)
		COMPRESSION	TENSION		
466+97.84 to 469+00 (H=8 ft)	16" $\phi$ CIDH	180	0	-18.0 (a)	-18.0
469+00 to 469+50 (H=8 ft)	16" $\phi$ CIDH	180	0	-15.0 (a)	-15.0
469+50 to 469+75 (H=8 ft)	16" $\phi$ CIDH	180	0	-15.0 (a)	-15.0
469+75 to 470+25 (H=8 ft)	16" $\phi$ CIDH	180	0	-11.0 (a)	-11.0
470+25 to 471+25.12 (H=8 ft)	16" $\phi$ CIDH	180	0	-10.0 (a)	-10.0

Note:  
 1). Design tip elevations are controlled by (a) compression.  
 2). Since there are no soft compressible soil layers below the design tip elevation, there is no design tip elevation for settlement.  
 3). The specified tip elevation shall not be raised above the design tip elevations for Lateral Load.

DESIGN BY C. Udarbe CHECKED R. Coria DETAILS BY L. Wang CHECKED C. Udarbe QUANTITIES BY P. Vu CHECKED R. Coria			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 17</b>	BRIDGE NO. 29E0010 POST MILE 18.15	<b>SOUTH STOCKTON WIDENING</b> <b>SOUNDWALL NO. 10</b> <b>MISCELLANEOUS DETAILS</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3586 PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3	REVISION DATES: 07-08-10, 08-05-11, 09-29-11		SHEET 7 OF 18

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 13:08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1307	1414

C.V. Udabe 11-04-11  
 REGISTERED CIVIL ENGINEER DATE  
 3-26-12  
 PLANS APPROVAL DATE  
 No. C62985  
 Exp. 12-30-12  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

TABLE OF PILE SPACING: CLASS 45 - CONCRETE PILES

DESIGN H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	6'-9"	7'-0"	7'-6"	8'-3"	9'-3"	10'-3"	11'-0"	12'-0"	13'-0"	14'-3"	16'-3"	16'-9"	18'-0"	20'-6"
C	2'-9"	2'-9"	3'-0"	3'-3"	3'-6"	4'-0"	4'-3"	4'-9"	5'-0"	5'-6"	6'-3"	6'-9"	7'-3"	7'-9"
B	4'-0"	4'-3"	4'-6"	5'-0"	5'-9"	6'-3"	6'-9"	7'-3"	8'-0"	8'-9"	10'-0"	10'-0"	10'-9"	12'-9"
F	1'-6"	1'-6"	1'-6"	1'-9"	1'-9"	2'-0"	2'-6"	2'-9"	3'-0"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"
M	1'-3"	1'-3"	1'-6"	1'-9"	2'-0"	2'-6"	2'-9"	3'-3"	3'-6"	4'-0"	4'-9"	5'-3"	5'-9"	6'-3"
N	2'-6"	2'-9"	3'-0"	3'-6"	4'-3"	4'-9"	5'-3"	5'-9"	6'-6"	7'-3"	8'-6"	8'-6"	9'-3"	11'-3"
ROW 1	16'-0"	14'-0"	12'-0"	10'-0"	8'-0"	6'-6"	5'-6"	4'-6"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
ROW 2	24'-0"	21'-0"	18'-0"	15'-0"	14'-0"	13'-0"	11'-0"	9'-0"	8'-0"	12'-0"	10'-0"	6'-0"	4'-0"	4'-0"
ROW 3										8'-0"	5'-0"	4'-0"	4'-0"	6'-0"
ROW 4														6'-0"
CONFIGURATION	I	I	I	I	I	I	I	I	I	II	II	II	II	III

TABLE 1: TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H	STEM WITH HAUNCH													
	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
STEM BATTER	0	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	7/8:12	1:12	1:12
STEM THICKNESS @ TOP	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"
STEM THICKNESS @ HAUNCH	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
(a) BARS				#6@18**	#7@18**	#8@18**	#9@18**	#10@18**	#8 @ 9*	#8 @ 9*	#7 @ 6*	#10@12**	#9 @ 9*	#11@12**
X				CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT
Y				8'-0"	6'-6"	7'-6"	8'-6"	9'-6"	9'-6"	11'-0"	11'-6"	13'-0"	14'-0"	15'-6"
(b) BARS	#5 @ 12	#5 @ 12	#5 @ 9	#6@18**	#7@18**	#8@18**	#9@18**	#10@18**	#8 @ 9*	#8 @ 9*	#7 @ 6*	#10@12**	#9 @ 9*	#11@12**
X	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT
Y	CONT	CONT	CONT	CONT	10'-6"	13'-0"	15'-0"	17'-6"	19'-6"	21'-0"	18'-6"	19'-0"	25'-6"	23'-6"
(c) BARS				#6 @ 18	#6 @ 18	#6 @ 18	#6 @ 18	#6 @ 18	#6 @ 18	#6 @ 18	#6 @ 12	#7 @ 12	#7 @ 18	#7 @ 12
(d) BARS	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 9	#5 @ 9	#6 @ 9	#5 @ 6	#7 @ 9	#7 @ 9	#6 @ 6	#7 @ 6
TOTAL (e) BARS	6 #5	6 #5	6 #5	6 #5	8 #5	8 #5	10 #5	10 #5	10 #5	10 #5	12 #5	12 #5	12 #5	14 #5
TOTAL (f) BARS	6 #5	6 #5	6 #5	6 #5	6 #5	8 #5	8 #5	8 #5	8 #5	10 #5	10 #5	10 #5	12 #5	12 #5

TABLE 2: TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H	STEM WITH HAUNCH							STEM WITHOUT HAUNCH						
	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
BATTER	0	0	0	0	0	0	0	0	0	0	1/4:12	1/2:12	1/2:12	1/2:12
STEM THICKNESS @ TOP	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
STEM THICKNESS @ HAUNCH	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-3"	1'-3"							
(a) BARS				#6@12**	#5 @ 6*	#9@18**	#9@12**	#9@12**	#9@12**	#7 @ 6*	#7 @ 6*	#7 @ 6*	#9 @ 9*	#11@12**
X				CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT
Y				5'-6"	5'-6"	8'-6"	8'-6"	8'-6"	8'-6"	9'-6"	11'-0"	12'-6"	13'-6"	14'-6"
(b) BARS	#5 @ 12	#5 @ 9	#6 @ 9	#6@12**	#5 @ 6*	#9@18**	#9@12**	#9@12**	#9@12**	#7 @ 6*	#7 @ 6*	#7 @ 6*	#9 @ 9*	#11@12**
X	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT	CONT
Y	CONT	CONT	CONT	CONT	CONT	11'-6"	11'-6"	12'-0"	12'-0"	17'-6"	20'-0"	21'-6"	24'-0"	24'-0"
(c) BARS						#7 @ 18	#7 @ 12	#7 @ 12	#7 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#7 @ 18	#7 @ 12
(d) BARS	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 9	#5 @ 9	#6 @ 9	#5 @ 6	#7 @ 9	#7 @ 9	#6 @ 6	#7 @ 6
TOTAL (e) BARS	6 #5	6 #5	6 #5	6 #5	8 #5	8 #5	10 #5	10 #5	10 #5	10 #5	12 #5	12 #5	12 #5	14 #5
TOTAL (f) BARS	6 #5	6 #5	6 #5	6 #5	6 #5	8 #5	8 #5	8 #5	8 #5	10 #5	10 #5	10 #5	12 #5	12 #5

CONT = CONTINUOUS

\* = (a) AND (b) BARS ARE BUNDLED TOGETHER.  
 \*\* = ALTERNATE (a) AND (b) BARS AS SHOWN IN DETAIL A.

**DESIGN DATA**

**DESIGN:** LOAD FACTOR DESIGN (LFD)

**CONCRETE:** REINFORCED CONCRETE, f'c = 3600 psi  
 fy = 60000 psi

**LOADING CASE:**  
 LEVEL GROUND WITH 240 psf LIVE LOAD SURCHARGE AND 16' SOUNDWALL.  
 SEISMIC LOAD = 0.3 DEAD LOAD  
 WIND LOAD = 30 psf  
 DEAD LOAD OF SOUNDWALL = 1414 lb/lf  
 DEAD LOAD OF BARRIER = 372 lb/lf

**SEISMIC LOAD: SOIL**  
 Kh = 0.3g  
 Kv = 0.0  
 Kae : MONONOBE-OKABE METHOD  
 Vs30 = 920 ft/sec  
 SOIL:  $\phi = 34^\circ$   $\gamma = 120$  pcf

EQUIVALENT FLUID PRESSURE:  
 = 36 pcf FOR DETERMINATION OF TOE PRESSURE  
 = 27 pcf FOR DETERMINATION OF HEEL PRESSURE

**LOAD COMBINATIONS:**  
 GROUP A :  $\beta D + 1.7E + 1.7SC$   
 GROUP B :  $\beta D + 1.7E + 1.3W$   
 GROUP C :  
 STEM :  $1.0D + 1.0E + 1.0EQD + 1.0EQE$   
 FOOTING : D + PYM  
 WHERE :  $\beta = 1.0$  OR  $1.3$  WHICHEVER CONTROLS DESIGN

D = DEAD LOAD  
 E = LATERAL EARTH PRESSURE  
 SC = SURCHARGE  
 W = WIND LOAD  
 EQD = SEISMIC DEAD LOAD  
 EQE = SEISMIC LATERAL EARTH PRESSURE  
 PYM = PROBABLE YIELD MOMENT (1.3\* NOMINAL YIELD MOMENT OF STEM)

- GENERAL NOTES**
- CLASS 45-CONCRETE PILES WERE USED FOR THE DESIGN.
  - PILE BATTER SHOWN ARE 1:3.
  - MINIMUM DISTANCE BETWEEN CENTER PILE AND EDGE OF FOOTING IS 1'-6".
  - REDUCTION FACTORS:  
 GROUPS A & B :  $\phi = 0.75$   
 GROUP C :  $\phi = 1.0$
  - LATERAL RESISTANCE OF EACH PILE:  
 GROUPS A & B : = 30 kip  
 GROUP C : = 40 kip
  - MAXIMUM SPACING BETWEEN PILES IS SHOWN IN THE TABLE. REDUCE TO SUIT THE LENGTH OF FOOTING.
  - MINIMUM DISTANCE BETWEEN ANY TWO PILES IS 3'-0".
  - LIMIT OF NO SPLICING FOR REBARS = 3 TIMES THE BOTTOM THICKNESS OF STEM.

SPECIAL DETAILS

**SOUTH STOCKTON WIDENING**

**SOUNDWALL NO. 10**

**RETAINING WALL TYPE 1SWBP - DETAILS NO. 1**

REVISED STANDARD DRAWING

FILE NO. **xs14-320-1x**

APPROVAL DATE July 2011

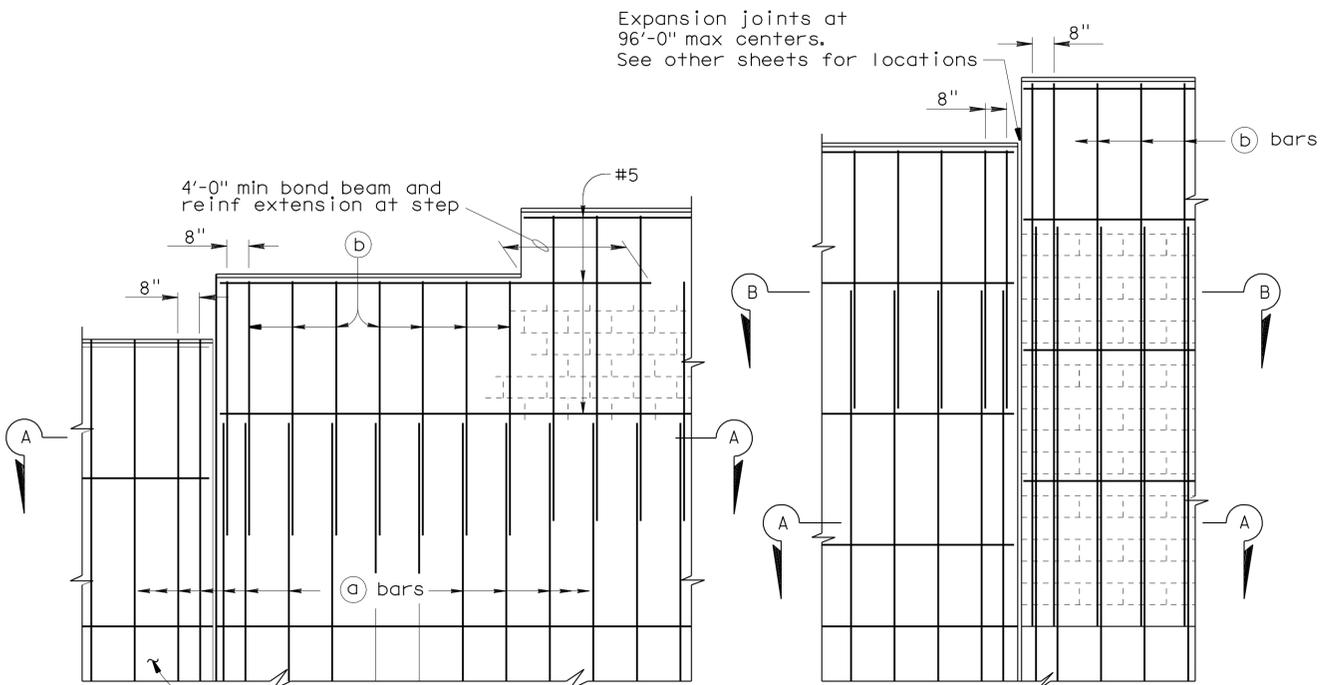
Added note

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	29E0010
POST MILE	18.15





For details not shown, see "SOUNDWALL ON RETAINING WALL - MASONRY BLOCK DETAILS NO. 2" sheet

**PART ELEVATIONS**

**DESIGN NOTES**

**DESIGN**  
Uniform Building Code, 1997 Edition and the Bridge Design Specifications.

**DESIGN WIND LOAD**  
33 psf

**DESIGN SEISMIC LOAD**  
0.57 Dead load

**CONCRETE MASONRY**

REINFORCED CONCRETE	REGULAR STRENGTH	HIGH STRENGTH	
$f'_c = 3.250$ ksi	$f'_m = 1500$ psi	$f'_m = 2000$ psi	$f'_m = 2500$ psi
$f_y = 60$ ksi	$f_b = 495$ psi	$f_b = 660$ psi	$f_b = 830$ psi
	$f_s = 24000$ psi	$f_s = 24000$ psi	$f_s = 24000$ psi
	$n = 25.8$	$n = 19.3$	$n = 15.5$

**LOAD FACTORS AND LOAD COMBINATIONS**

Working Stress Design ( WSD ) Percentage of unit stress

Group 1: D + E + SC	100%
Group 2: D + W + SC + E	100%
Group 3: D + 0.71 EQD + E	100%

Where:  
 D = Dead load  
 E = Lateral earth pressure  
 SC = Live load surcharge  
 W = Wind load  
 EQD = Seismic dead load

Load Factor Design ( LFD )

Group A: BD + 1.7 E + 1.7 SC
Group B: BD + 1.7 E + 1.3 W
Group C: BD + 1.3 E + 1.0 EQE
Group D: BD + 1.3 E + 1.0 EQD
Group E: BD + 1.1 E + 0.85 ( EQE + EQD )

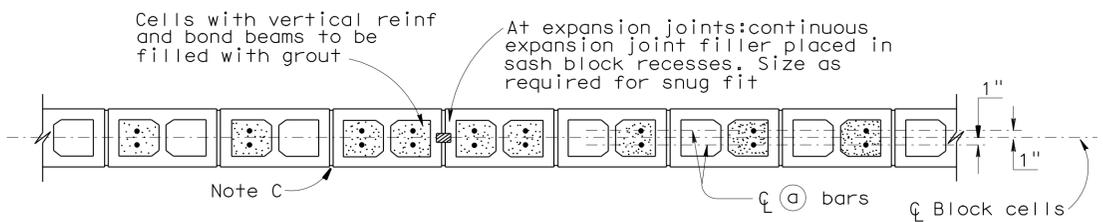
Where : B = 0.9 or 1.2, whichever controls in design  
 D = Dead load  
 E = Lateral earth pressure  
 SC = Live load surcharge  
 W = Wind load  
 EQD = Seismic dead load  
 EQE = Seismic earth load

**STRENGTH REDUCTION FACTORS,  $\phi$**

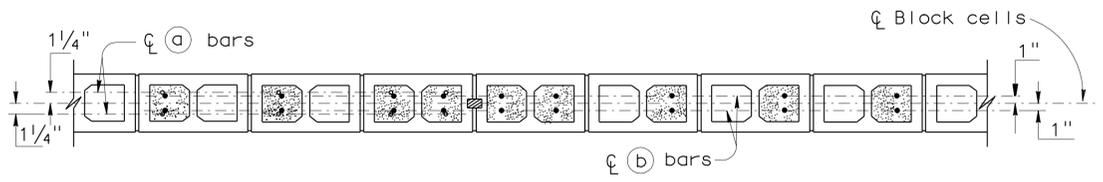
Reinforced concrete:  
 For flexure  $\phi = 0.90$   
 For shear  $\phi = 0.85$

Concrete masonry:  
 For flexure  $\phi = 0.80$   
 For shear  $\phi = 0.60$

Foundations:  
 See "RETAINING WALL TYPE 1SW" sheet



**SECTION A- A**  
**H=6'-0" THRU H=12'-0"**



**SECTION A- A**      **SECTION B- B**  
**H=12'-0" THRU H=16'-0"**

Maximum H	(a) bars @ 406 max	(b) bars @ 406 max	"y"	f'm (psi)	Compressive Strength of CMU (psi)	Maximum H
6'-0"	#4	---	---	1500	1900	6'-0"
8'-0"	#4	---	---	1500	1900	8'-0"
10'-0"	#4	---	---	1500	1900	10'-0"
12'-0"	#5	#4	6'-0"	2000	2800	12'-0"
14'-0"	#6	#4	8'-0"	2500	3750	14'-0"
16'-0"	#6	#4	10'-0"	2500	3750	16'-0"

**GENERAL NOTES**

- Note A: For type of block and joint finish, See other sheets.
- Note B: When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2 - 9 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams.
- Note C: Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- Note D: For intermediate wall heights that are between the "H's" given. Use the tabular information for the next higher "H".
- Note E: Masonry strengths are listed in the "SOUNDWALL REINFORCEMENT TABLE".

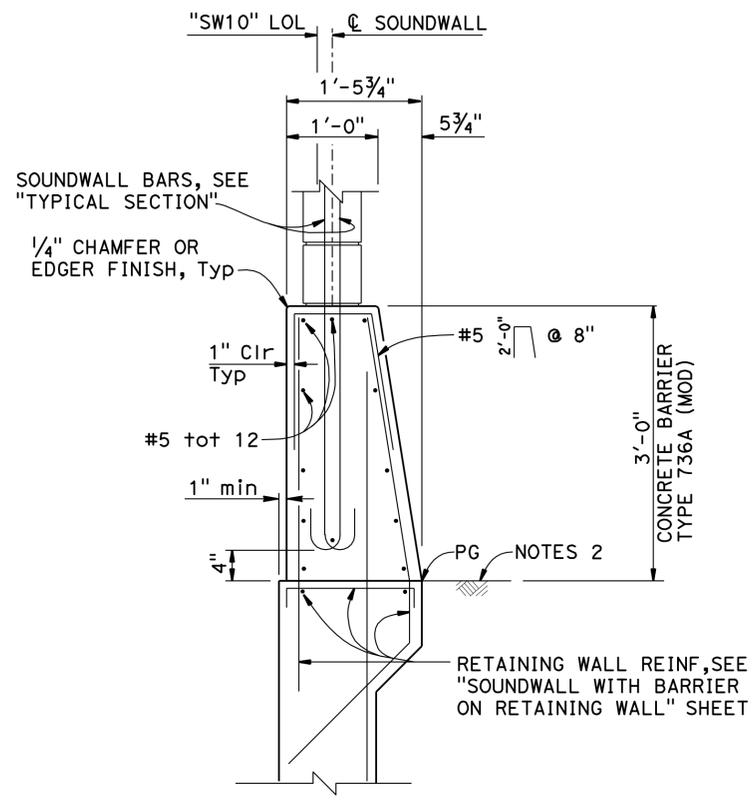
**SOUTH STOCKTON WIDENING**

BRIDGE NO.	29E0010
POST MILE	18.15
<b>SOUNDWALL NO. 10</b>	
<b>SOUNDWALL ON RETAINING WALL-MASONRY BLOCK DETAILS NO. 1</b>	

DESIGN	BY C. Udarbe	CHECKED R. Coria
DETAILS	BY G. Leung	CHECKED C. Udarbe
QUANTITIES	BY P. Vu	CHECKED R. Coria

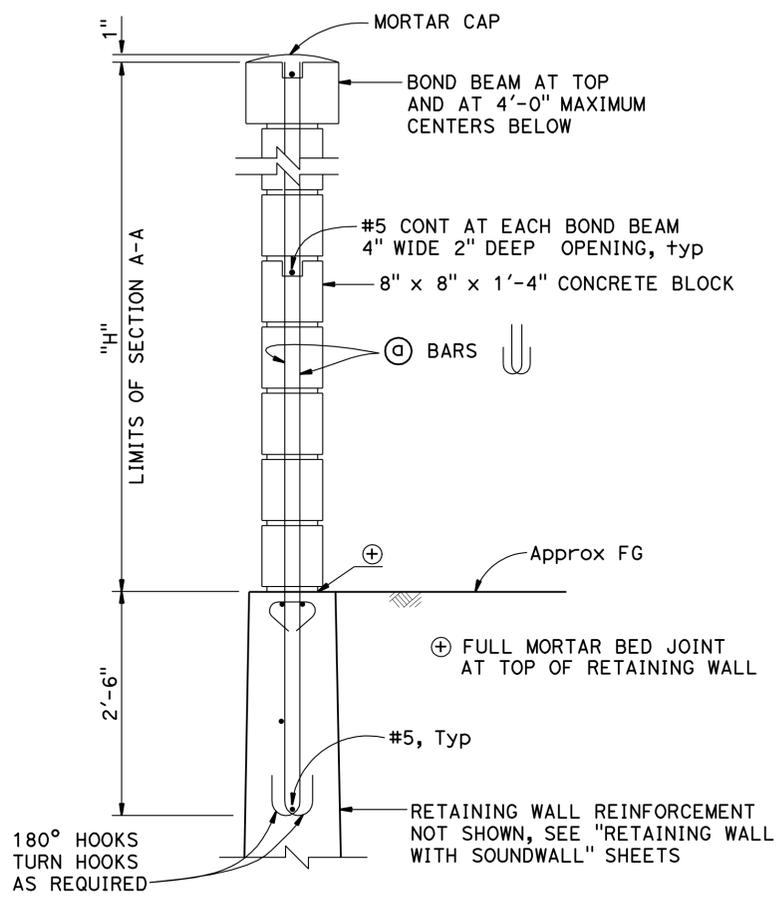
<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> STRUCTURE DESIGN <b>DESIGN BRANCH 17</b>
--	--

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1310	1414
<i>C. V. Udarbe</i> REGISTERED CIVIL ENGINEER			11-04-11 DATE		
3-26-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

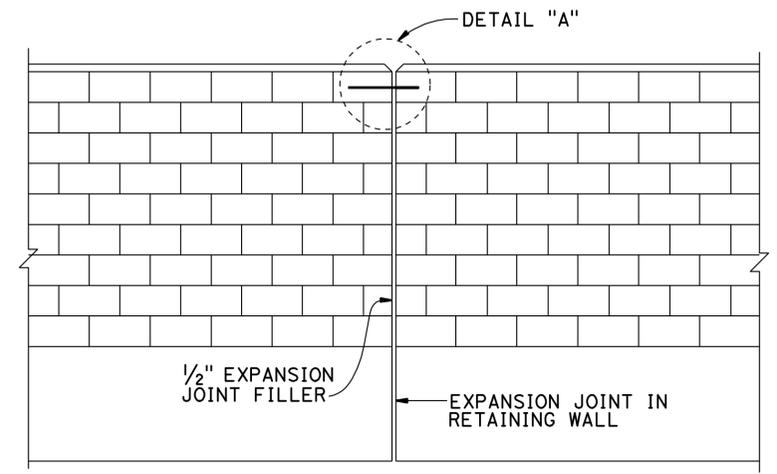


**CONCRETE BARRIER  
TYPE 736A (MOD)  
SECTION**  
1" = 1'

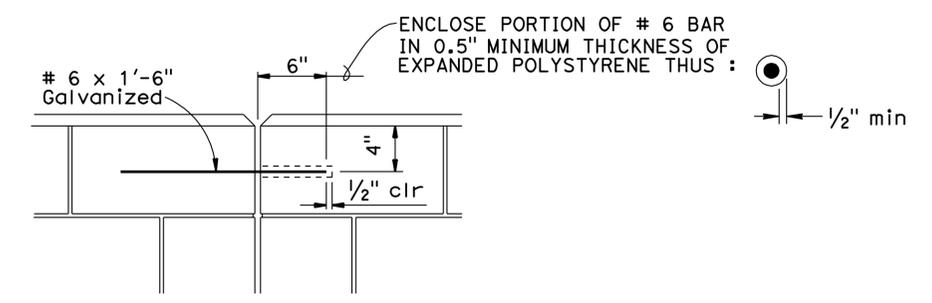
- NOTES:
1. For details not shown, see "RETAINING WALL WITH WOUNDWALLI" sheets.
  2. Slope ground at traffic side of barrier to drain maximum slope \*10%, see "STANDARD PLAN B11-56, NOTE D"



**TYPICAL SECTIONS  
H = 6'-0" Thru H = 10'-0"**  
1" = 1'



**ALIGNMENT KEY DETAIL**  
1" = 1'

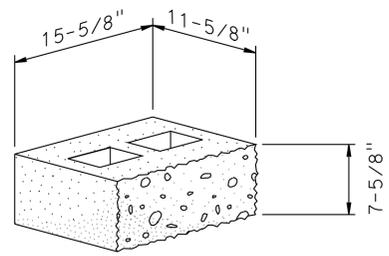


**DETAIL A**  
1/2" = 1'

FOR DETAILS NOT SHOWN, SEE H=12'-0" THRU H=16'-0"

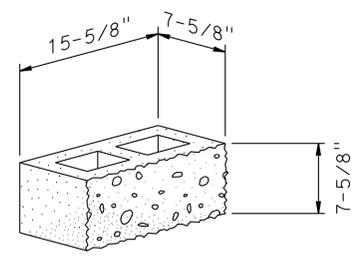
DESIGN BY C. Udarbe CHECKED R. Coria DETAILS BY G. Leung CHECKED C. Udarbe QUANTITIES BY P. Vu CHECKED R. Coria			<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 17</b>	BRIDGE NO. 29E0010 POST MILE 18.15	<b>SOUTH STOCKTON WIDENING</b> <b>SOUNDWALL NO. 10</b> <b>SOUNDWALL ON RETAINING WALL-MASONRY BLOCK</b> <b>DETAILS NO. 2</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3586 PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3	REVISION DATES SHEET OF 01-13-12 11 18		USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 13:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1311	1414
REGISTERED CIVIL ENGINEER DATE 11-04-11 3-26-12 PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER No. C62985 Exp. 12-30-12 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



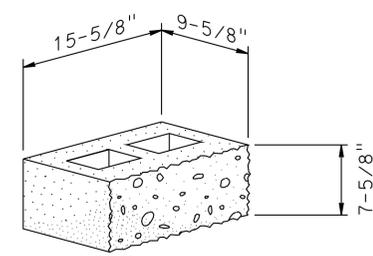
'A' BLOCK

SPLIT FACE ON SIDE  
12 X 8 X 16 NOMINAL



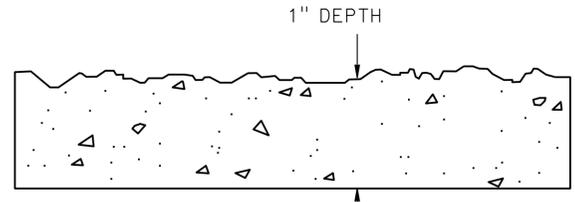
'B' BLOCK

SPLIT FACE ON SIDE  
8 X 8 X 16 NOMINAL



'C' BLOCK

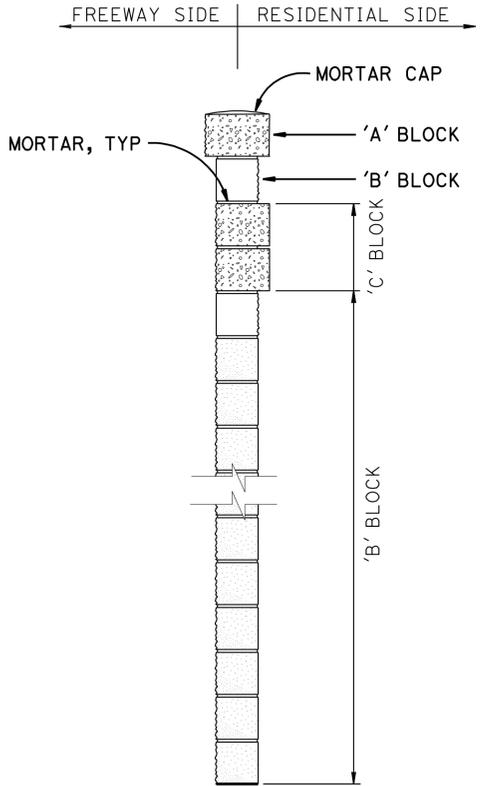
SPLIT FACE ON SIDE  
10 X 8 X 16 NOMINAL



NOTES: - TEXTURE #T323 LIMESTONE1  
- MEASUREMENTS ARE APPROXIMATE

**TYPICAL SPLIT FACE DETAIL**

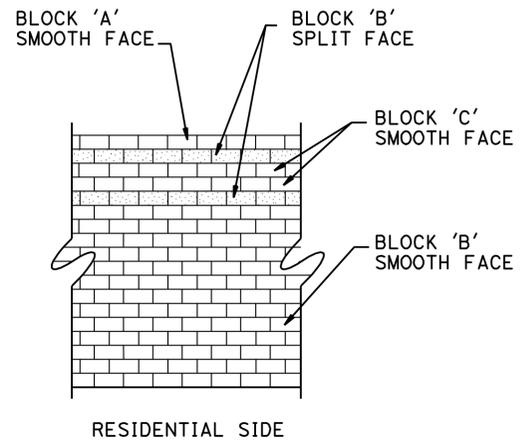
NO SCALE



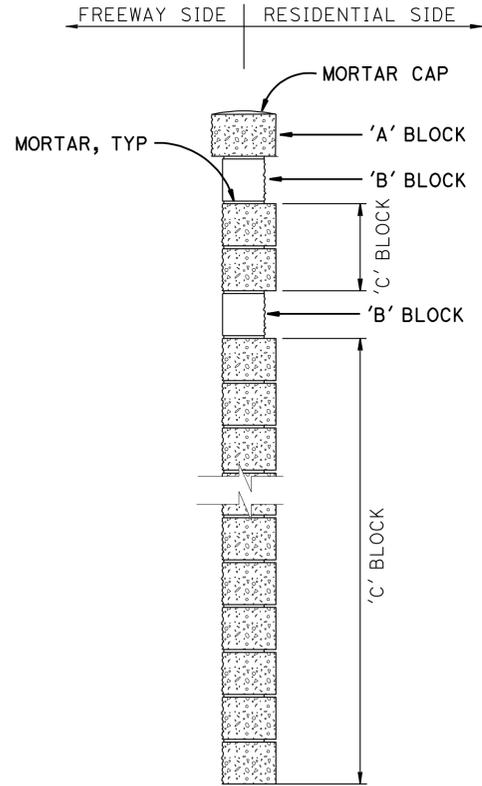
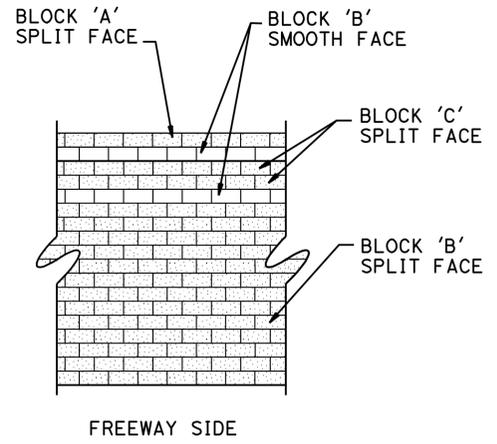
**TYPICAL SECTION**

**SOUND WALL DETAILS**

NO SCALE



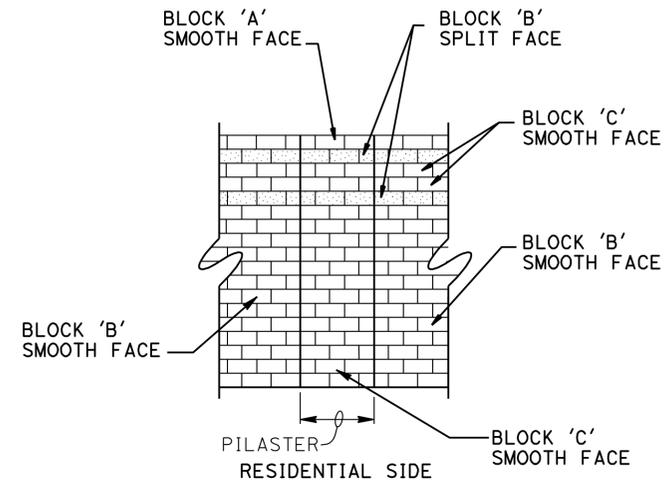
**ELEVATION TYPICAL TREATMENT**



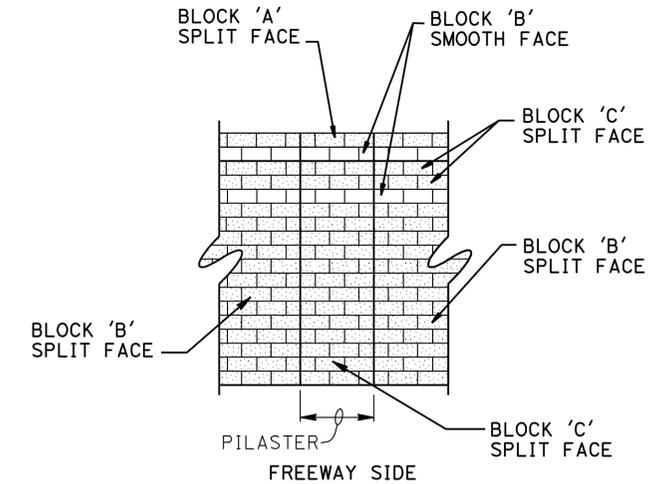
**TYPICAL SECTION**

**SOUND WALL AT PILASTER DETAILS**

NO SCALE



**ELEVATION TYPICAL TREATMENT**



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY C. Udarbe	CHECKED R. Coria
DETAILS	BY G. Leung	CHECKED C. Udarbe
QUANTITIES	BY P. Vu	CHECKED R. Coria

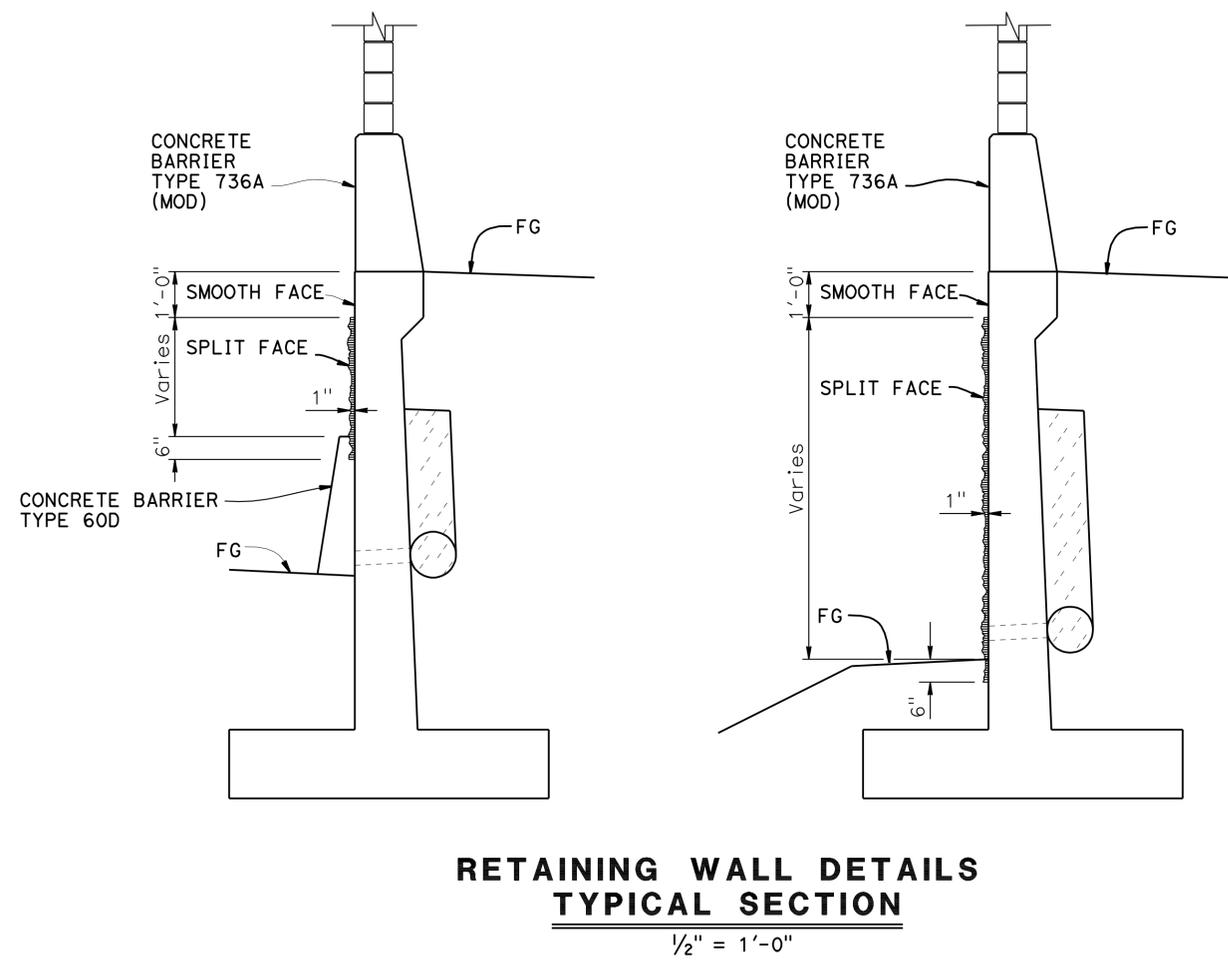
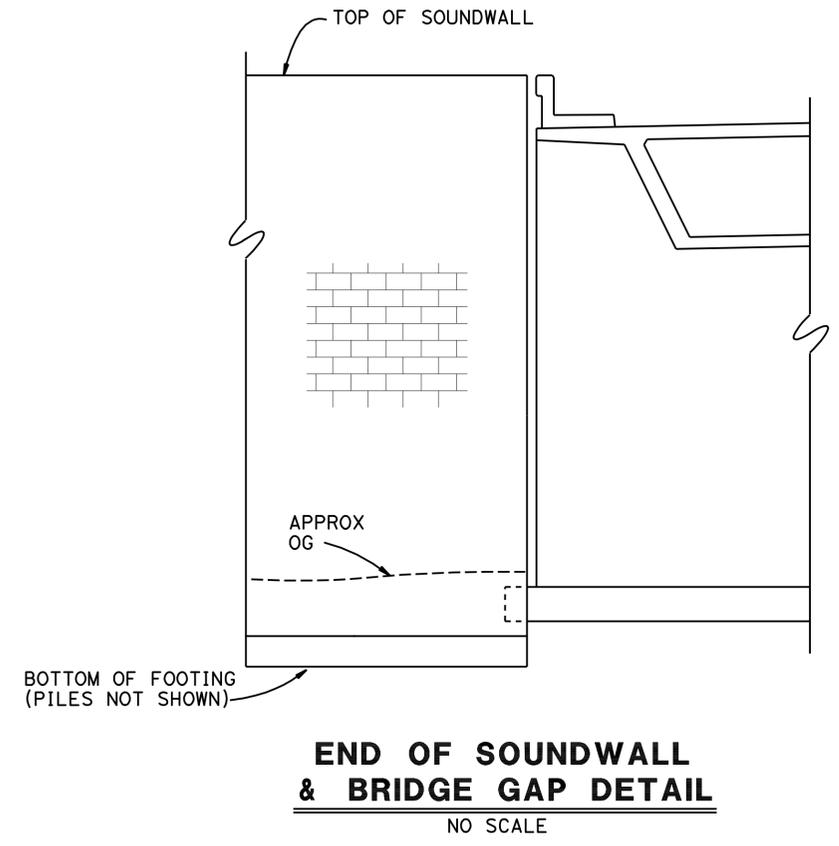
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
DESIGN BRANCH 17

BRIDGE NO.	29E0010
POST MILE	18.15

**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**ARCHITECTURAL DETAILS NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1312	1414
C.V. Udarbe REGISTERED CIVIL ENGINEER			11-04-11 DATE		
3-26-12 PLANS APPROVAL DATE			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY C. Udarbe	CHECKED R. Coria
DETAILS	BY G. Leung	CHECKED C. Udarbe
QUANTITIES	BY P. Vu	CHECKED R. Coria

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURE DESIGN  
**DESIGN BRANCH 17**

BRIDGE NO.	29E0010
POST MILE	18.15

**SOUTH STOCKTON WIDENING**  
**SOUNDWALL NO. 10**  
**ARCHITECTURAL DETAILS NO. 2**

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 13:09

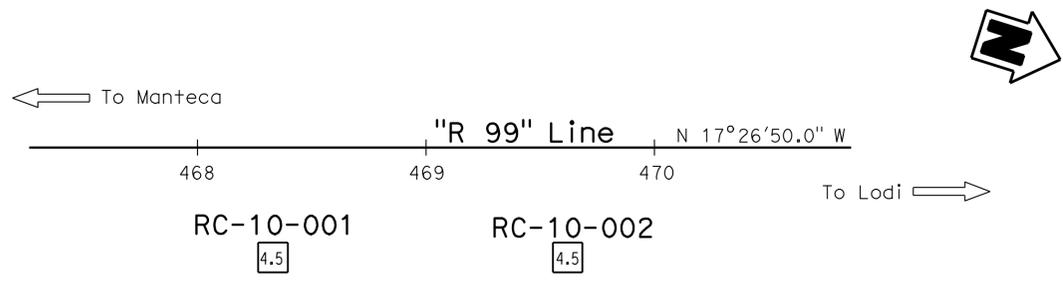
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1313	1414

PROFESSIONAL GEOLOGIST  
 Joseph M. Kaump  
 No. 7837  
 Exp. 01-31-13  
 STATE OF CALIFORNIA  
 8-24-11  
 3-26-12  
 PLANS APPROVAL DATE

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

**BENCH MARK**

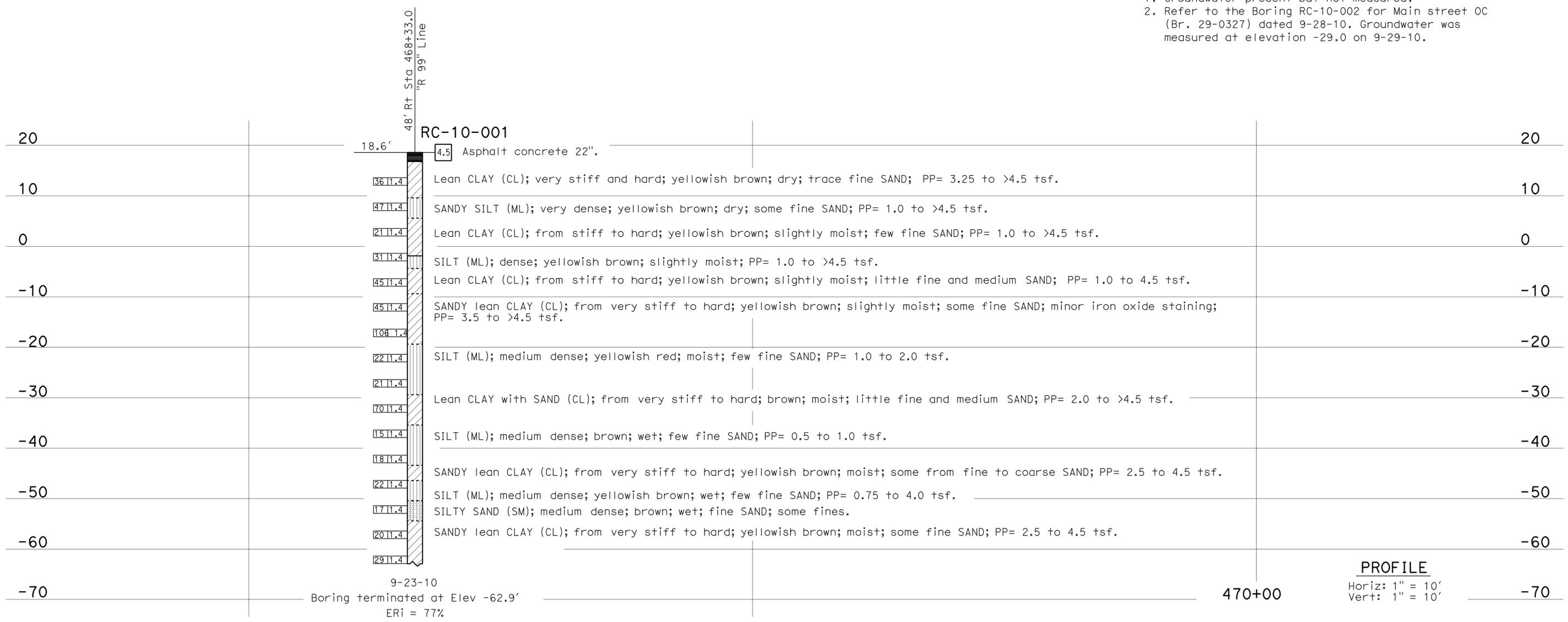
Southeast corner of Main Street OC,  
 60.8 ft Right of Rte 99, Sta 466+21.7  
 Vertical Datum NGVD 29.  
 Elev 35.94 ft.



**PLAN**  
 1" = 40'

**Notes:**

1. Groundwater present but not measured.
2. Refer to the Boring RC-10-002 for Main street OC (Br. 29-0327) dated 9-28-10. Groundwater was measured at elevation -29.0 on 9-29-10.



<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>SOUTH STOCKTON WIDENING</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 7/11		<b>DEPARTMENT OF TRANSPORTATION</b>		<b>STRUCTURE DESIGN</b>		<b>SOUND WALL NO. 10</b>	
NAME: R. Buehl		CHECKED BY: A. Barrie		FIELD INVESTIGATION BY: T. Alderman		<b>DESIGN BRANCH 17</b>		<b>LOG OF TEST BORINGS 1 OF 5</b>	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3586 PROJECT NUMBER & PHASE: 10000004091		CONTRACT NO.: 10-3A1001	
						BRIDGE NO. 29E0010 POST MILE 18.15		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES SHEET OF 08-24-11 14 18	

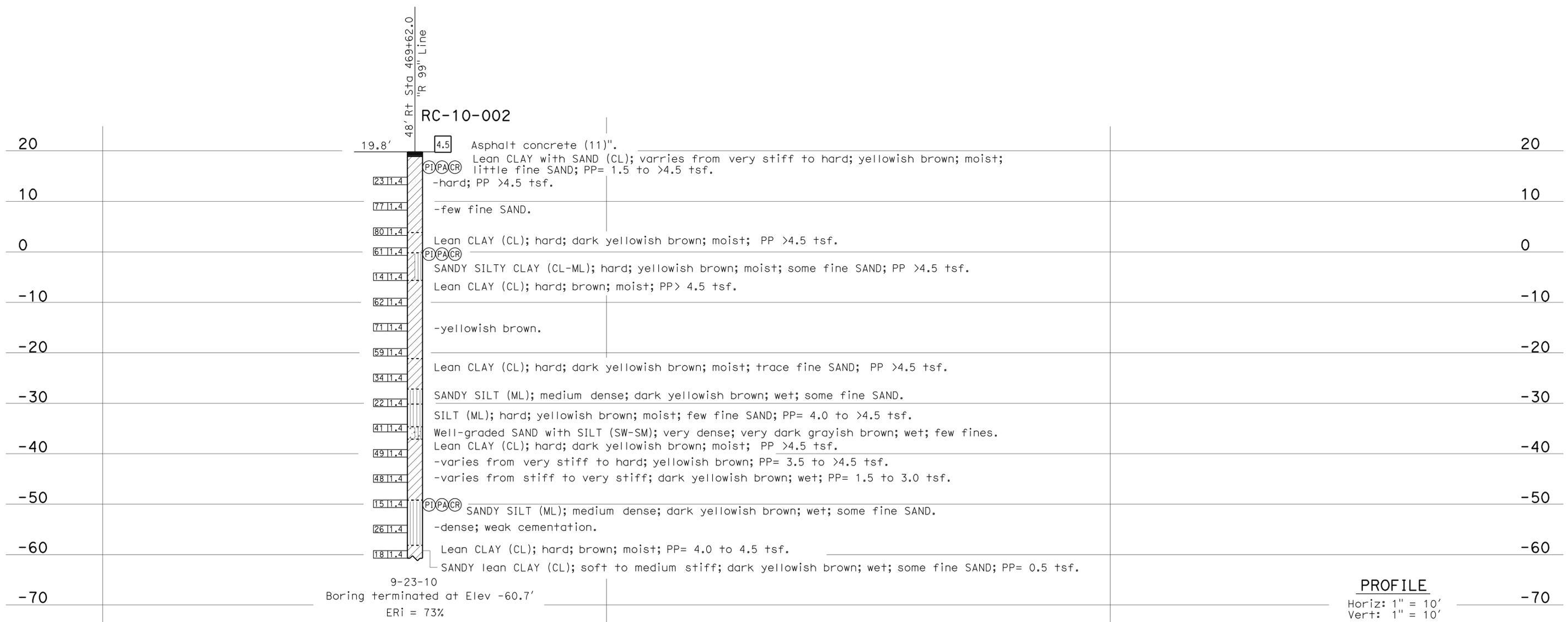
FILE => 29e-0010z-1+b1of5.dgn

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 13:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1314	1414

Joseph M. Kaump 8-24-11  
 PROFESSIONAL GEOLOGIST  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

FOR PLAN VIEW, SEE  
"LOG OF TEST BORINGS 1 OF 5"



469+00

471+00

472+00

**SOUTH STOCKTON WIDENING**

**SOUND WALL NO. 10**

**LOG OF TEST BORINGS 2 OF 5**

<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>BRIDGE NO.</b>		<b>SOUTH STOCKTON WIDENING</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 7/11		FIELD INVESTIGATION BY:		STRUCTURE DESIGN		29E0010		LOG OF TEST BORINGS 2 OF 5	
NAME: R. Buehl		CHECKED BY: A. Barrie		J. Kaump		<b>DESIGN BRANCH 17</b>		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3586		PROJECT NUMBER & PHASE: 10000004091		CONTRACT NO.: 10-3A1001	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
								08-24-11		15 18	

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 1:31:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1315	1414

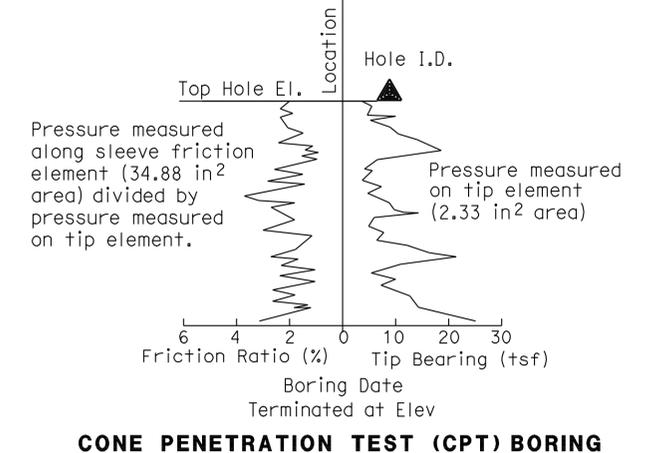
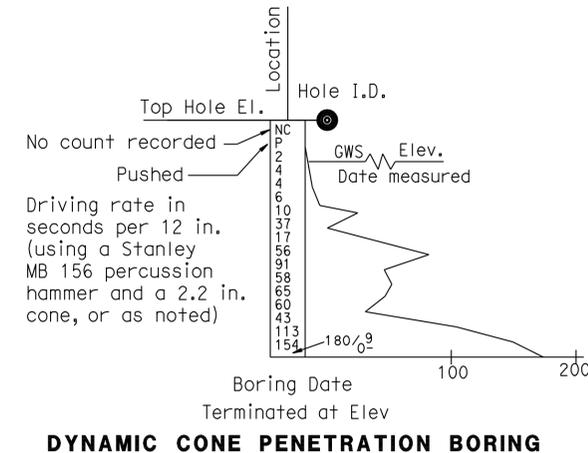
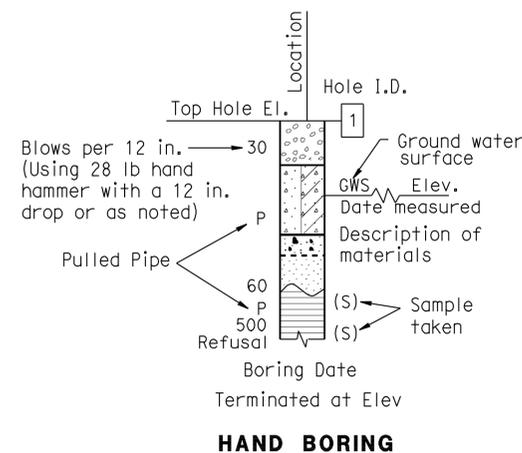
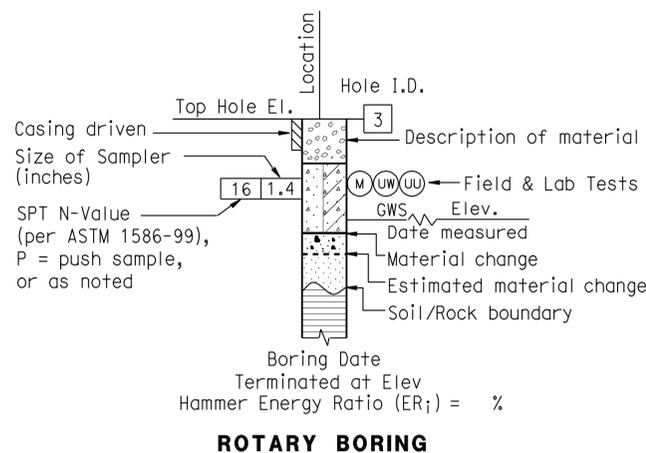
*Joseph M Kaump* 8-24-11  
 PROFESSIONAL GEOLOGIST  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

Note: Size in inches.

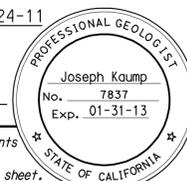
CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 17		BRIDGE NO. 29E0010 POST MILE 18.15		SOUTH STOCKTON WIDENING SOUND WALL NO. 10 LOG OF TEST BORINGS 3 OF 5	
PREPARED BY: F. Nguyen 7/11		PROJECT NUMBER & PHASE: 10000004091		CONTRACT NO.: 10-3A1001		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 16 OF 18	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 UNIT: 3586  
 FILE => 29e-0010z-1t+b3of5.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1316	1414


 PROFESSIONAL GEOLOGIST  
 8-24-11  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		CL		Lean CLAY
	Well-graded GRAVEL with SAND				Lean CLAY with SAND
	Poorly-graded GRAVEL		CL		Lean CLAY with GRAVEL
	Poorly-graded GRAVEL with SAND				SANDY lean CLAY
	Well-graded GRAVEL with SILT		CL-ML		SILTY CLAY
	Well-graded GRAVEL with SILT and SAND				SILTY CLAY with SAND
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		CL-ML		SILTY CLAY with GRAVEL
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SANDY SILTY CLAY
	Poorly-graded GRAVEL with SILT		ML		SILT
	Poorly-graded GRAVEL with SILT and SAND				SILT with SAND
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		ML		SILT with GRAVEL
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SANDY SILT
	SILTY GRAVEL		OL		ORGANIC lean CLAY
	SILTY GRAVEL with SAND				ORGANIC lean CLAY with SAND
	CLAYEY GRAVEL		OL		ORGANIC lean CLAY with GRAVEL
	CLAYEY GRAVEL with SAND				SANDY ORGANIC lean CLAY
	SILTY, CLAYEY GRAVEL		OL		SANDY ORGANIC lean CLAY with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND				GRAVELLY ORGANIC lean CLAY
	Well-graded SAND		CH		ORGANIC lean CLAY with SAND
	Well-graded SAND with GRAVEL				ORGANIC lean CLAY with GRAVEL
	Poorly-graded SAND		CH		SANDY ORGANIC lean CLAY
	Poorly-graded SAND with GRAVEL				GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with SILT		MH		ORGANIC lean CLAY with SAND
	Well-graded SAND with SILT and GRAVEL				ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		MH		SANDY ORGANIC lean CLAY
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				GRAVELLY ORGANIC lean CLAY
	Poorly-graded SAND with SILT		OH		ORGANIC fat CLAY
	Poorly-graded SAND with SILT and GRAVEL				ORGANIC fat CLAY with SAND
	Poorly-graded SAND with CLAY (or SILTY CLAY)		OH		ORGANIC fat CLAY with GRAVEL
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				SANDY ORGANIC fat CLAY
	SILTY SAND		OH		SANDY ORGANIC fat CLAY with GRAVEL
	SILTY SAND with GRAVEL				GRAVELLY ORGANIC fat CLAY
	CLAYEY SAND		OH		ORGANIC elastic SILT
	CLAYEY SAND with GRAVEL				ORGANIC elastic SILT with SAND
	SILTY, CLAYEY SAND		OH		ORGANIC elastic SILT with GRAVEL
	SILTY, CLAYEY SAND with GRAVEL				SANDY ORGANIC elastic SILT
	PEAT		OL/OH		ORGANIC elastic SILT with GRAVEL
	PEAT				GRAVELLY ORGANIC elastic SILT
	COBBLES		OL/OH		ORGANIC elastic SILT with SAND
	COBBLES and BOULDERS				GRAVELLY ORGANIC elastic SILT with SAND

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(UC)	Unconfined Compression-Soil (ASTM D 2166)
(UU)	Unconfined Compression-Rock (ASTM D 2938)
(UW)	Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N <sub>60</sub> (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

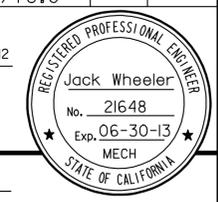
ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 17	BRIDGE NO. 29E0010	SOUTH STOCKTON WIDENING SOUND WALL NO. 10 LOG OF TEST BORINGS 4 OF 5
				POST MILE 18.15	
PREPARED BY: F. Nguyen 7/11		UNIT: 3586 PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	REVISION DATES 08-24-11	SHEET 17 OF 18

GS LOTB SOIL LEGEND ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => 29e-0010z-1+bd4of5.dgn



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1318	1414
			02-29-12		
			REGISTERED ENGINEER-MECHANICAL		
			DATE		
			3-26-12		
			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

**CALIFORNIA STATE FIRE MARSHAL**  
**APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by:   
**FRANCIS SOLICH**  
Approval date: 08-04-11



INDEX OF SHEETS

SHEET	DESCRIPTION
GP-0	Index of Sheets and Abbreviations
East Stockton UP Pumping Plant GP-1	UP Pumping Plant General Plan
Rte 26/99 Sep Pumping Plant GP-2	Pumping Plant General Plan

STRUCTURAL

East Stockton UP Pumping Plant

STI-0	Structural Site Plan
STI-1	Pumping Plant Plan
STI-2	Pumping Plant Section 1
STI-3	Foundation Plan
STI-4	Pumping Plant Section 2
STI-5	Wet Pit Shaft Vertical Sections 1
STI-6	Wet Pit Shaft Vertical Sections 2
STI-7	Wet Pit Shaft Horizontal Sections
STI-8	Wet Pit Shaft Top Slab
STI-9	Top Shaft, Valve Box Sections/ Pump House Elevation
STI-10	Debris Sump and Storage Box Section
STI-11	Debris Sump Vertical Sections
STI-12	Debris Sump and Crossway Sections
STI-13	Landing 1 Framing Plan and Details
STI-14	Landing Grate and Guardrail Details
STI-15	Landing 3 Details
STI-16	Ladder and Landing Details
STI-17	Debris Sump Grate Details
STI-18	Equipment Access Grate Details
STI-19	Access Grate Details
STI-20	Valve Box Grate Support Details
STI-21	Valve Box Grate Plan and Details
STI-22	Valve Box Grate Details
STI-23	Discharge Pipe Support Details
STI-24	Miscellaneous Details
STI-25	Ladder Safety Post
STI-26	Pumping Plant Elevations
STI-27	Pump House Removal
Log of Test Borings 1 of 3	
Log of Test Borings 2 of 3	
Log of Test Borings 3 of 3	

Rte 26/99 Sep Pumping Plant

ST2-0	Structural Site Plan
ST2-1	Pumping Plant Plan
ST2-2	Foundation Plan
ST2-3	Storage Box Section & Details
ST2-4	Pumping Plant Section 1
ST2-5	Pumping Plant Section 2
ST2-6	Wet Pit Shaft Vertical Sections 1
ST2-7	Wet Pit Shaft Vertical Sections 2
ST2-8	Wet Pit Shaft Horizontal Sections
ST2-9	Wet Pit Shaft Top Slab
ST2-10	Top Shaft, Discharge Box Sections/ Pump House Elevation
ST2-11	Debris Sump and Storage Box Section
ST2-12	Debris Sump Vertical Section
ST2-13	Landing Frame Details
ST2-14	Landing Grate Section
ST2-15	Debris Sump Section
ST2-16	Debris Sump Grate Details
ST2-17	Equipment Access Grate Details
ST2-18	Sump Access Grate Details

INDEX OF SHEETS, CONTINUED

Rte 26/99 Sep Pumping Plant

ST2-19	Ladder and Landing Details
ST2-20	Access Stairway Plan
ST2-21	Stairway Details
ST2-22	Discharge Pipe Support Details
ST2-23	Miscellaneous Details
ST2-24	Storage Box Details
ST2-25	Pumping Plant Elevations
ST2-26	Ladder Safety Post
Log of Test Borings 1 of 4	
Log of Test Borings 2 of 4	
Log of Test Borings 3 of 4	
Log of Test Borings 4 of 4	

MECHANICAL

East Stockton UP Pumping Plant

MI-1	Pumping Plant Details
MI-2	Pumping Plant Outfall
MI-3	Pump House Door Details

Rte 26/99 SEP Pumping Plant

M2-1	Pumping Plant Details
M2-2	Pump House Door Details

ELECTRICAL

East Stockton UP Pumping Plant

EEI-0	Legend
EEI-1	Title 24 Compliance No. 1
EEI-2	Title 24 Compliance No. 2
EEI-3	Title 24 Compliance No. 3
EEI-4	Title 24 Compliance No. 4
EEI-5	Electrical Site Plan
EEI-6	Pumping Plant Section
EEI-7	Control Room Power and Lighting Plan
EEI-8	Power Schematic Diagram
EEI-9	Storm Water Pumps Control Schematic Diagram
EEI-10	Motor Control Center
EEI-11	Motor Control Center Details
EEI-12	Details
EEI-13	Service Pedestal Detail

Rte 26/99 SEP Pumping Plant

EE2-1	Title 24 Compliance No. 1
EE2-2	Title 24 Compliance No. 2
EE2-3	Title 24 Compliance No. 3
EE2-4	Title 24 Compliance No. 4
EE2-5	Electrical Site Plan
EE2-6	Pumping Plant Section
EE2-7	Control Room Plan
EE2-8	Power Schematic Diagram
EE2-9	Storm Water Pumps Control Schematic Diagram
EE2-10	Motor Control Center
EE2-11	Motor Control Center Details
EE2-12	Details
EE2-13	Service Pedestal Detail

ABBREVIATIONS

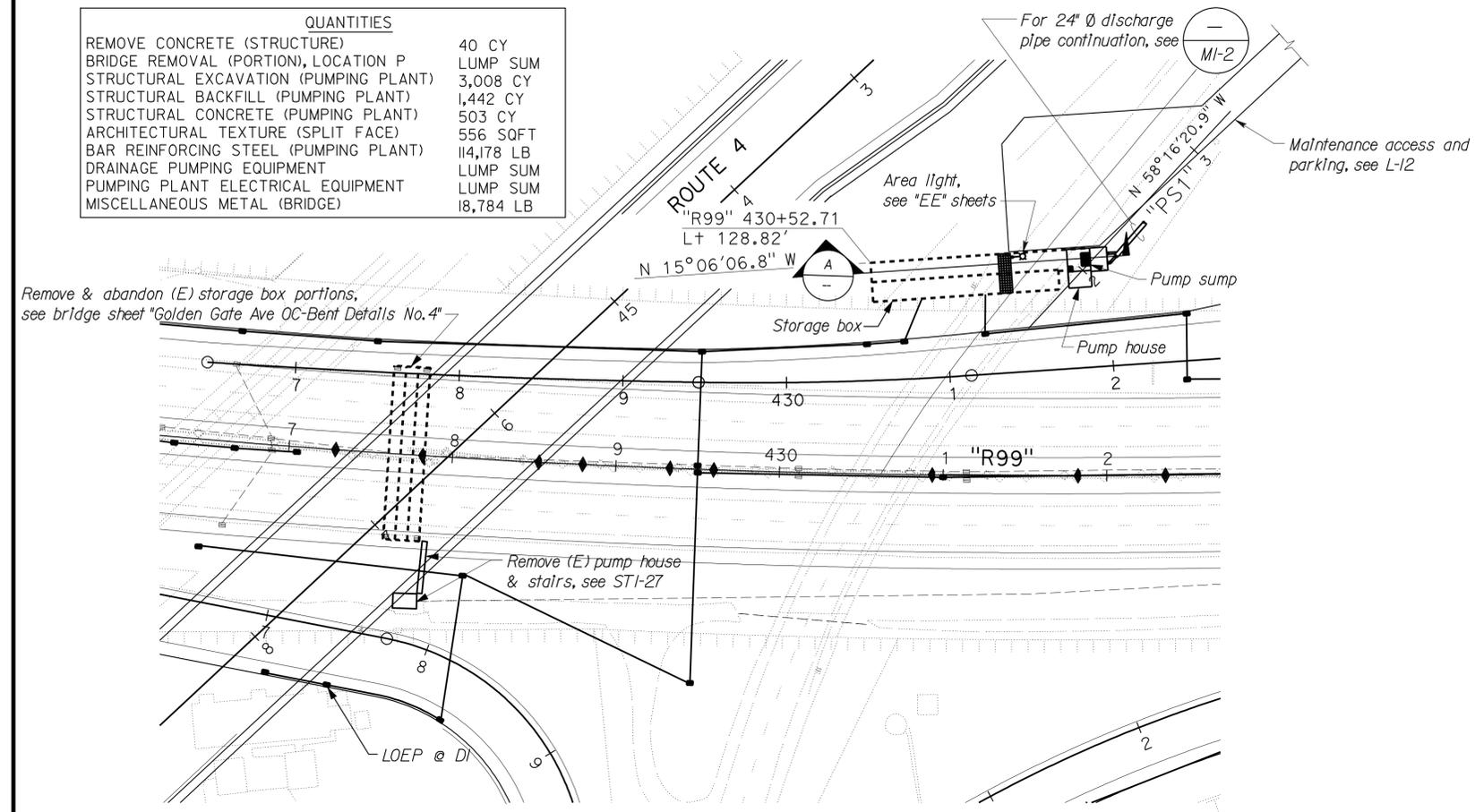
Ø	Diameter
EL	Elevation
LOEP	Low Edge of Pavement
O.D.	Outside Diameter
PP	Pumping Plant
Sch	Schedule
S.S.	Stainless Steel

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY <i>Thomas Dietsch</i>	CHECKED <i>Jesus Ramirez</i>	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/ 99</b> <b>Sep PUMPING PLANTS</b> INDEX OF SHEETS AND ABBREVIATIONS	SHEET										
	DETAILS	BY <i>Thomas Dietsch</i>	CHECKED <i>Jesus Ramirez</i>			29-015W		<b>GP-0</b>										
QUANTITIES	BY <i>Thomas Dietsch</i>	CHECKED <i>Jesus Ramirez</i>	29-012OW			OF												
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0	1	2	3	UNIT PROJECT NUMBER & PHASE	3615 1000000409	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-29-12	REVISION DATES (PRELIMINARY STAGE ONLY)						

<b>CALIFORNIA STATE FIRE MARSHAL</b> <b>APPROVED</b> Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> <b>FRANCIS SOLICH</b> Approval date: 08-04-11	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
	10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1319	1414

3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

QUANTITIES	
REMOVE CONCRETE (STRUCTURE)	40 CY
BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
STRUCTURAL EXCAVATION (PUMPING PLANT)	3,008 CY
STRUCTURAL BACKFILL (PUMPING PLANT)	1,442 CY
STRUCTURAL CONCRETE (PUMPING PLANT)	503 CY
ARCHITECTURAL TEXTURE (SPLIT FACE)	556 SQFT
BAR REINFORCING STEEL (PUMPING PLANT)	114,178 LB
DRAINAGE PUMPING EQUIPMENT	LUMP SUM
PUMPING PLANT ELECTRICAL EQUIPMENT	LUMP SUM
MISCELLANEOUS METAL (BRIDGE)	18,784 LB

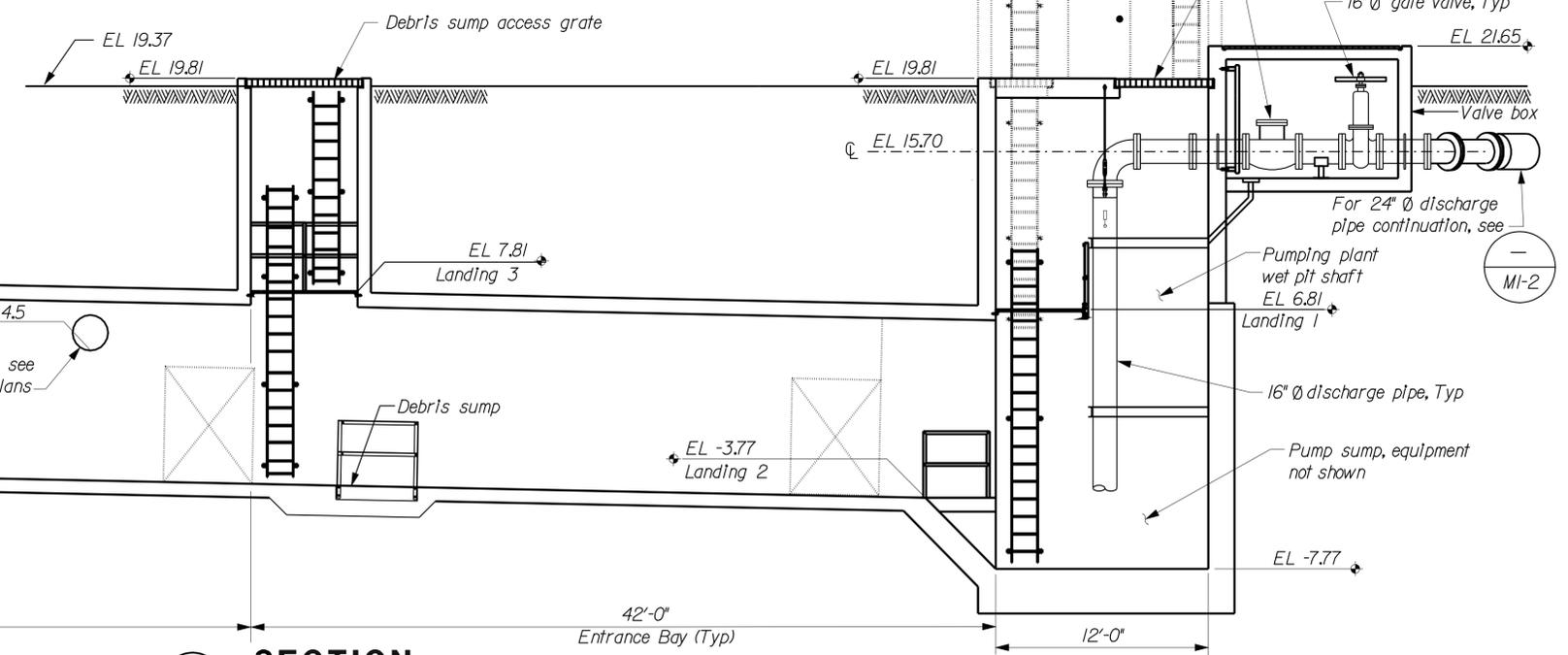


EQUIPMENT SCHEDULE			
EQUIPMENT	PUMP PERFORMANCE		ELECTRICAL CHARACTERISTICS
	PUMPING RATE (Gallons per Minute)	TOTAL DYNAMIC HEAD (Feet)	480 V, 3 phase, 60 Hz 1200 RPM (sync.), 75 hp
Drainage Pumps No. 1 and 2	5050	44.5	
	5400	42.0	
	5800	37.5	

RAINFALL DATA	
Storm Time (Min)	R <sub>50</sub> (in)
5	0.366
10	0.473
15	0.550
30	0.711
60	0.920

Storage: 22,000 cubic feet in Storage Box  
 Storage: 7,000 cubic feet in Collection System  
 For details of Collection System, See "Drainage Plans"  
 For underground electrical conduits, see "Electrical Plans"  
 Drainage area: 1,061,000 square ft  
 LOEP @ DI: EL 8.68 ft, 34.0' Rt 427+50.00 @ "GG2"

**SITE PLAN**  
1"=50'



**A SECTION**  
1"=5'

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THIS DRAWING ACCURATE FOR PUMPING PLANT WORK ONLY

DESIGN SUPERVISOR  
*[Signature]*  
 DESIGN ENGINEER  
*[Signature]*

DESIGN	BY Thomas Dietsch	CHECKED Jesus Ramirez
DETAILS	BY Thomas Dietsch	CHECKED Jesus Ramirez
QUANTITIES	BY Thomas Dietsch	CHECKED Jesus Ramirez

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 29-0115W  
 POST MILE

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
 EAST STOCKTON UP PUMPING PLANT  
 GENERAL PLAN

SHEET GP-1

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



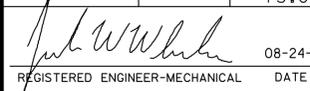
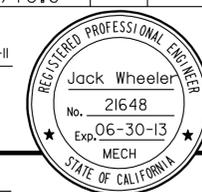
UNIT PROJECT NUMBER & PHASE 3615 1000000409

DISREGARD PRINTS BEARING EARLIER REVISION DATES

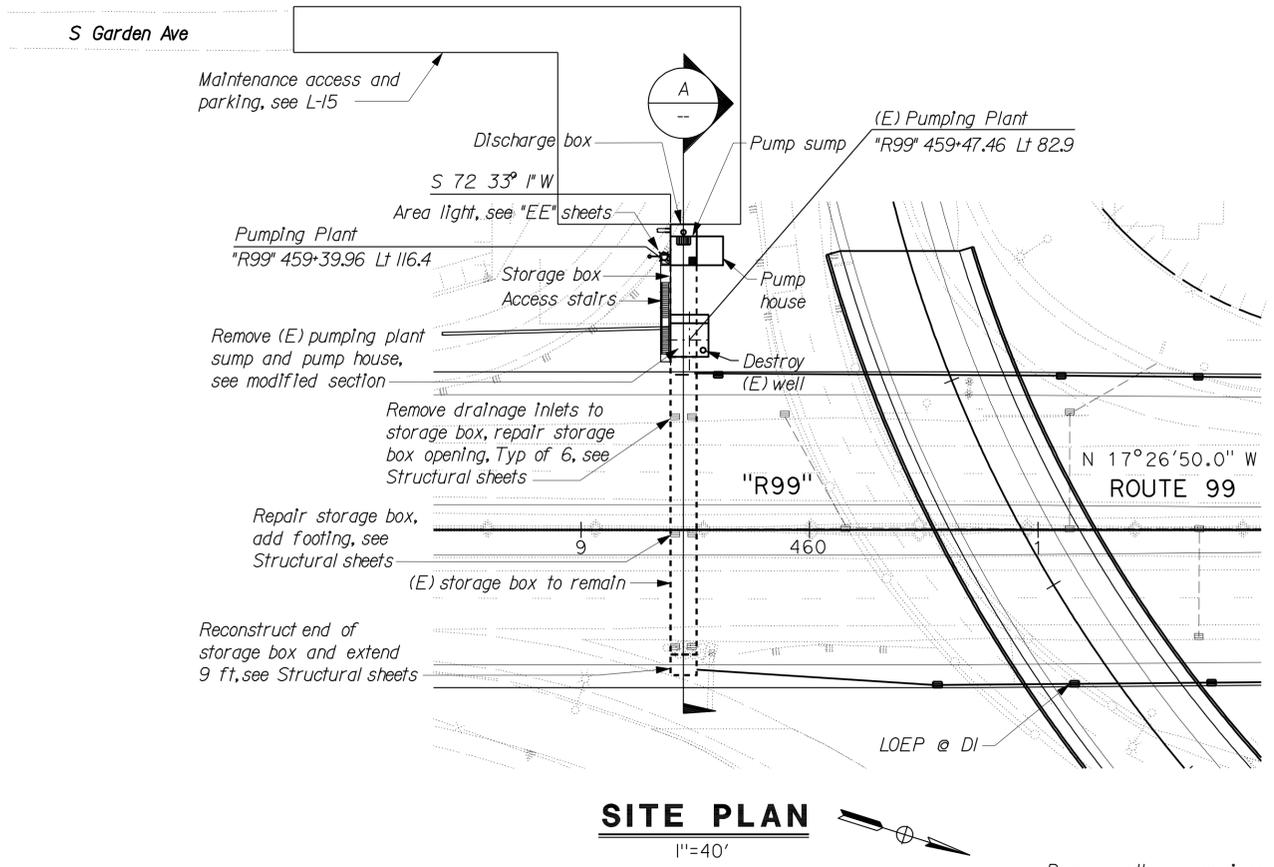
REVISION DATES (PRELIMINARY STAGE ONLY)							
06-14-10	08-18-10	02-09-11	03-28-11	04-13-11	05-18-11	07-06-11	08-24-11

SHEET OF

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 17:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1320	1414
 REGISTERED ENGINEER-MECHANICAL DATE 08-24-11					
3-26-12					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by:   
 FRANCIS SOLLICH  
 Approval date: 08-04-11

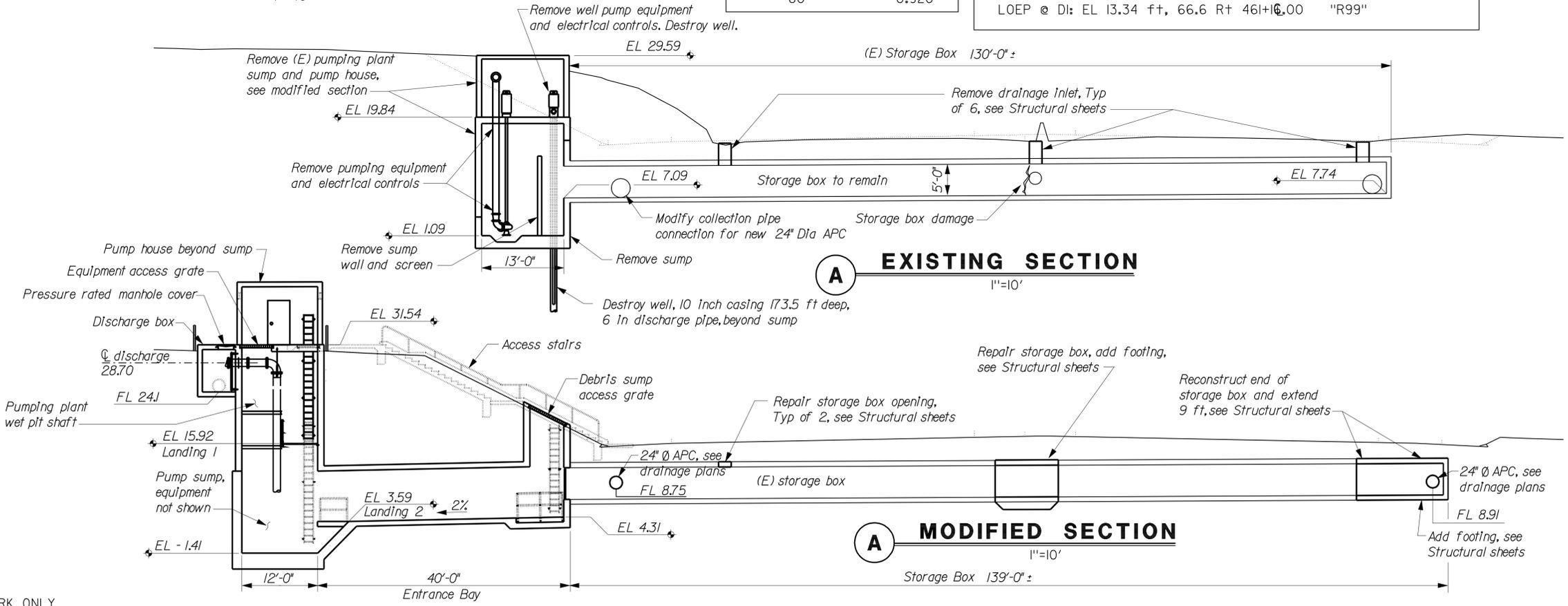


EQUIPMENT SCHEDULE			
EQUIPMENT	PUMP PERFORMANCE		ELECTRICAL CHARACTERISTICS
	PUMPING RATE (Gallons per Minute)	TOTAL DYNAMIC HEAD (Feet)	480 V, 3 phase, 60 Hz 880 RPM (sync.), 40 hp
Drainage Pumps No. 1 and 2	3100	31.0	
	3900	27.0	
	4300	25.0	

RAINFALL DATA	
Storm Time (Min)	R <sub>50</sub> (in)
5	0.366
10	0.473
15	0.550
30	0.711
60	0.920

Storage: 6,500 cubic feet in (E) Storage Box  
 Storage: 2,450 cubic feet in new Storage Box  
 Storage: 6,325 cubic feet in Collection System  
 For details of Collection System, See "Drainage Plans"  
 For underground electrical conduits, see "Electrical Plans"  
 Drainage area: 644,720 square ft  
 LOEP @ DI: EL 13.34 ft, 66.6 Rt 461+16.00 "R99"

QUANTITIES		
DESTROY WELL	LUMP SUM	
REMOVE CONCRETE (STRUCTURE)	70 CY	
BRIDGE REMOVAL (PORTION), LOCATION 0	LUMP SUM	
STRUCTURAL EXCAVATION (PUMPING PLANT)	2,377 CY	
STRUCTURAL BACKFILL (PUMPING PLANT)	1,400 CY	
STRUCTURAL CONCRETE (PUMPING PLANT)	306 CY	
ARCHITECTURAL TEXTURE (SPLIT FACE)	446 SOFT	
BAR REINFORCING STEEL (PUMPING PLANT)	60,000 LB	
DRAINAGE PUMPING EQUIPMENT	LUMP SUM	
PUMPING PLANT ELECTRICAL EQUIPMENT	LUMP SUM	
MISCELLANEOUS METAL (BRIDGE)	12,600 LB	



NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THIS DRAWING ACCURATE FOR PUMPING PLANT WORK ONLY

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN BY Thomas Dietsch	CHECKED Jesus Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b> GENERAL PLAN	SHEET GP-2
	DETAILS BY Thomas Dietsch	CHECKED Jesus Ramirez			POST MILE		
	QUANTITIES BY Thomas Dietsch	CHECKED Jesus Ramirez	UNIT PROJECT NUMBER & PHASE 3615 1000000409	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEMWW Imper1al Rev. 7/10		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY) 06-12-10 10-19-10 02-08-11 03-28-11 04-13-11 04-20-11 05-18-11 07-06-11 08-24-11			

USERNAME => 6121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 17:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1321	1414

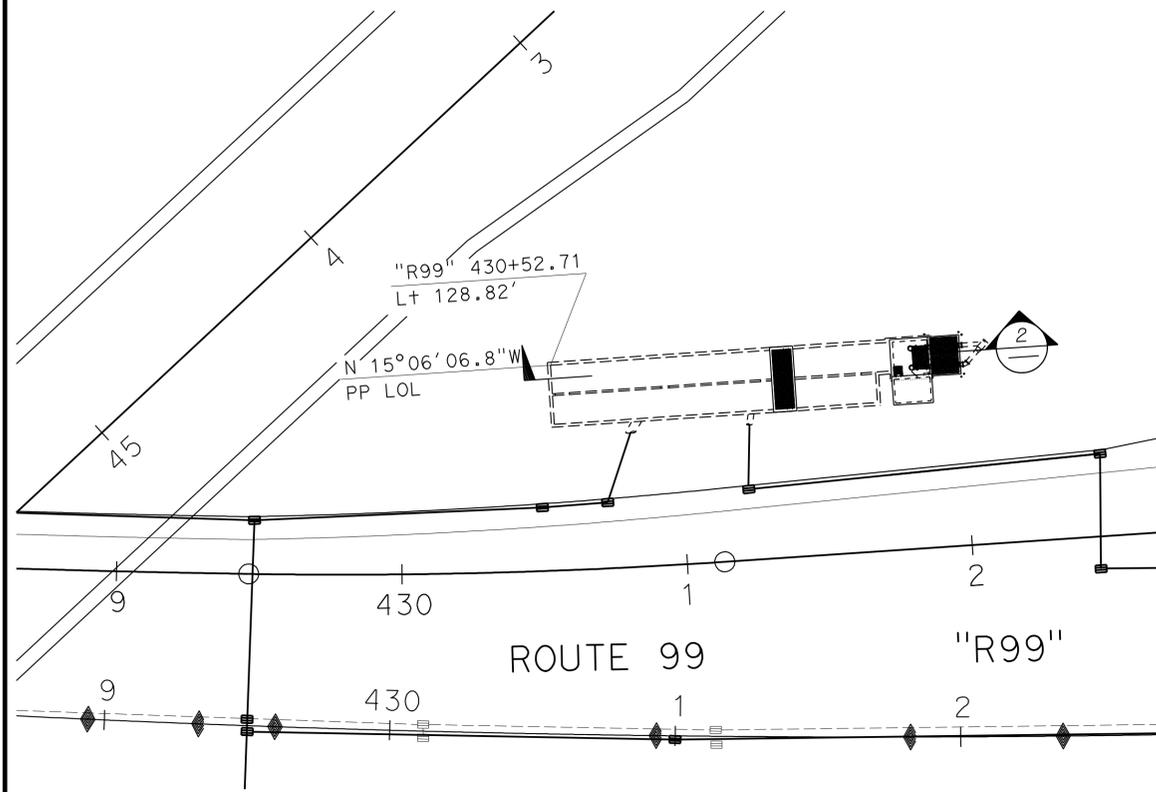
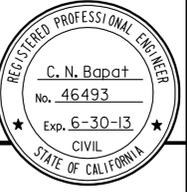
<i>Bapat</i>	10-21-11
REGISTERED CIVIL ENGINEER	DATE

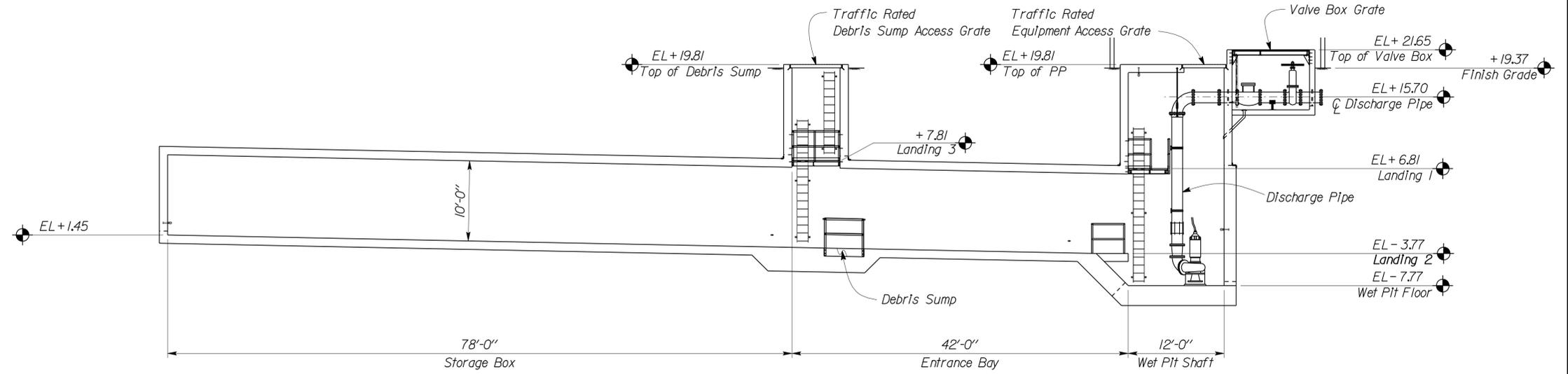
3-26-12
PLANS APPROVAL DATE

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



**1 STRUCTURAL PLAN**  
Scale 1/32" = 1' - 0"



**2 PUMPING PLANT SECTION**  
Scale 1/8" = 1' - 0"

RE Travis DESIGN SUPERVISOR  Joe Bapat DESIGN ENGINEER	DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b>	EAST STOCKTON UP PUMPING PLANT	STRUCTURAL SITE PLAN	SHEET OF <b>ST1-0</b>
	DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat			POST MILE				
	QUANTITIES	BY	CHECKED							

TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-07-11 04-07-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
---------------------------	--	---	---	---	---	-----------------------------	------------------	---	-------------------	---	----------

28-MAR-2012 14:49

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1322	1414

<i>N. Bapat</i>		10-21-11
REGISTERED CIVIL ENGINEER	DATE	

3-26-12
PLANS APPROVAL DATE

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

**A PUMPING PLANT DESIGN NOTES**

1. Design : AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments, Preface Dated December 2008
- a. Loads :
  - Vertical Box :
    - Earth Loads ( Equivalent Fluid Pressure ) :
      - 60 PCF above GWT
      - 90 PCF below GWT
    - Horizontal Box :
      - Live Load : HS 20-44 Truck
      - Roof : 30% Impact up to 3' of cover, no Impact above 3' of cover.
      - Walls : No surcharge
      - Invert : No Impact
    - Earth Loads ( Equivalent Fluid Pressure for two conditions ) :
      - 140 PCF vertical and 42 PCF horizontal
      - 140 PCF vertical and horizontal
    - Landings : Live Load 100 PSF
  - b. Reinforced Concrete ( Ultimate Strength Design ) :
    - $f'_c = 3,250$  PSI
    - $f_y = 60,000$  PSI
  - c. Miscellaneous Metal ( Working Stress Design ) :
    - $f_y = 36,000$  PSI unless otherwise noted
2. Foundation Report : Dated April 11, 2011

**B DETAIL NOTES**

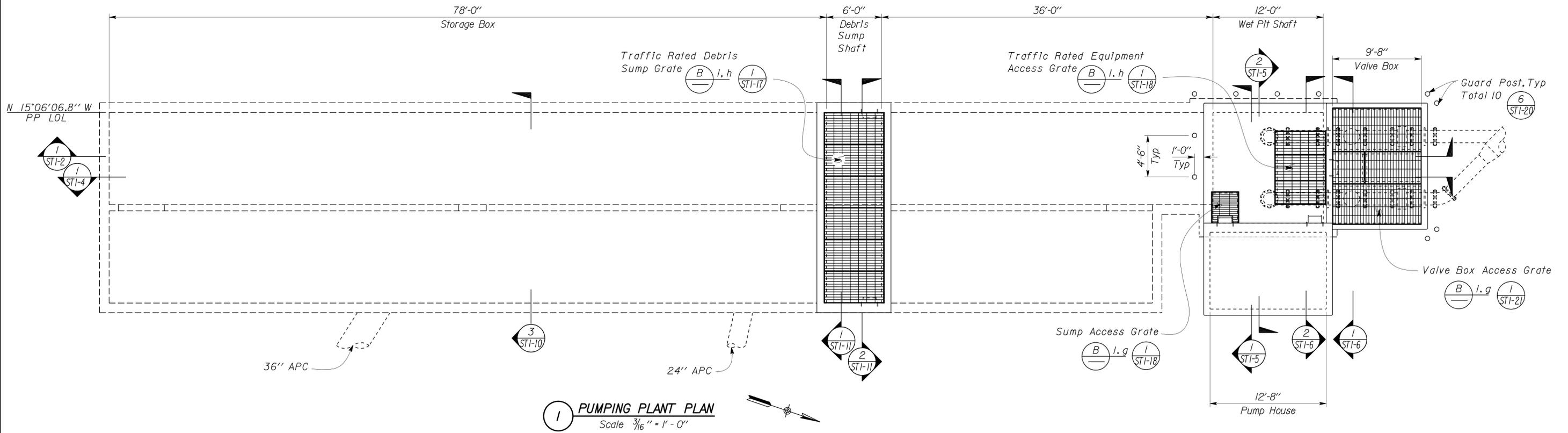
1. Metal Work Notes :
  - a. All metal work shall be hot dip galvanized after fabrication
  - b. Secure metal to metal connections shown as + with a  $1/2"$   $\emptyset$  x  $1/2"$  hex head machine bolt, lock washer and hex nut unless otherwise noted.
  - c. Mechanical Expansion Anchors shall be  $5/8"$   $\emptyset$  and have a 4" minimum embedment, 3'-0" maximum spacing and placed 6" from ends, two minimum, unless otherwise shown.
  - d. Mechanical Expansion Anchors used for securing ladders inside of Pumping Plant shall be of stainless steel.
  - e. All lock washers shall be helical spring lock washers.
  - f. All Railing and Ladders shall have smooth edges.
  - g. Welded Steel Grate : Unless otherwise noted
    - Bearing Bars  $1 3/4"$  x  $3/16"$  @  $1 3/16"$  C-C
    - Cross Bars  $1/2"$   $\emptyset$  @ 4" C-C
    - Trim Bars  $1 3/4"$  x  $3/16"$  fillet welded to ends of Bearing Bars
 Grate shall be anchored to supports with  $1/4"$   $\emptyset$  threaded stud and "Saddle Clip" type fastener as recommended by the manufacturer. Fasteners shall be installed at 3'-0" C-C maximum 6" from ends with 3 minimum per fixed grate.
  - h. Welded Steel Grate :
    - Traffic Rated Grate :
      - Bearing Bars  $5"$  x  $3/8"$  @  $1 3/16"$  C-C
      - Cross Bars  $1/2"$   $\emptyset$  @ 4" C-C
      - Trim Bars  $5"$  x  $3/8"$  fillet welded to ends of Bearing Bars
 Direction of Bearing Bars is indicated by
2. For Discharge Pipe locations and elevations, see Mechanical Plans.
3. For Ground Rod details not shown, see Electrical Plans.
4. For Ladder Details, see & for Ladder Safety Post

**SYMBOLS**

	Elevation or Working Point
	Earth
	Existing Features
	Reinforced Concrete
	Detail Number or Note Number
	Additional Reference (if required)
	Sheet Number

**ABBREVIATIONS**

Alt	Alternative
EL	Elevation or Working Point
GWT	Ground Water Table
MEA	Mechanical Expansion Anchor
OH	Opposite Hand
Opt	Optional
PP	Pumping Plant
PP LOL	Pumping Plant Layout Line

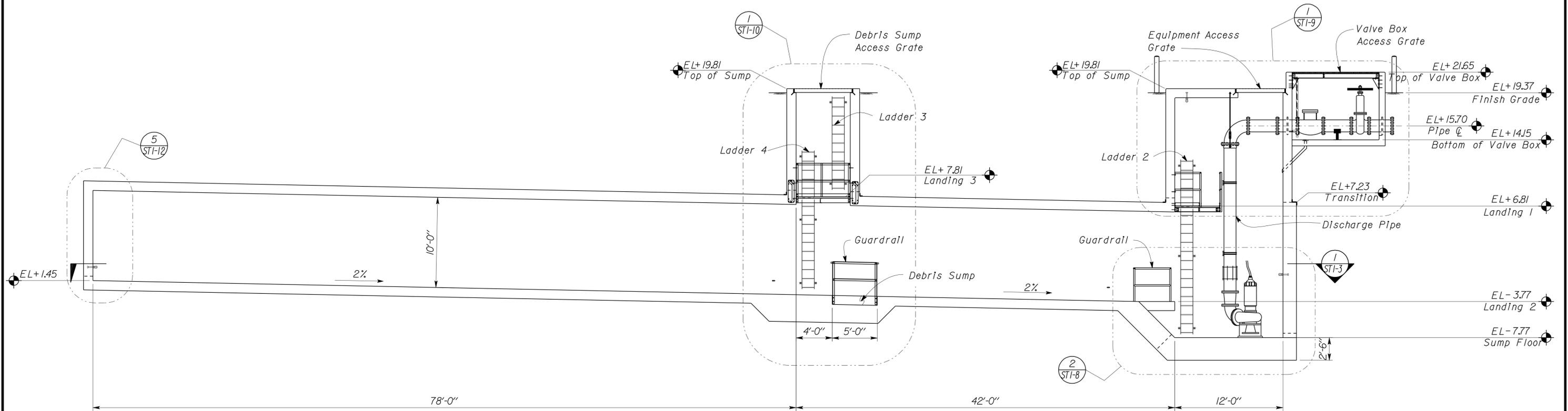


**1 PUMPING PLANT PLAN**  
Scale  $3/16" = 1' - 0"$

TAEMWW Imperial Rev. 7/10	DESIGN BY Chandra Bapat CHECKED Thomas Tong DETAILS BY Aleksey Serin CHECKED Chandra Bapat QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0115W POST MILE	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b> EAST STOCKTON UP PUMPING PLANT <b>PUMPING PLANT PLAN</b>	SHEET <b>ST1-1</b> OF	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

29-MAR-2012 17:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1323	1414
 REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

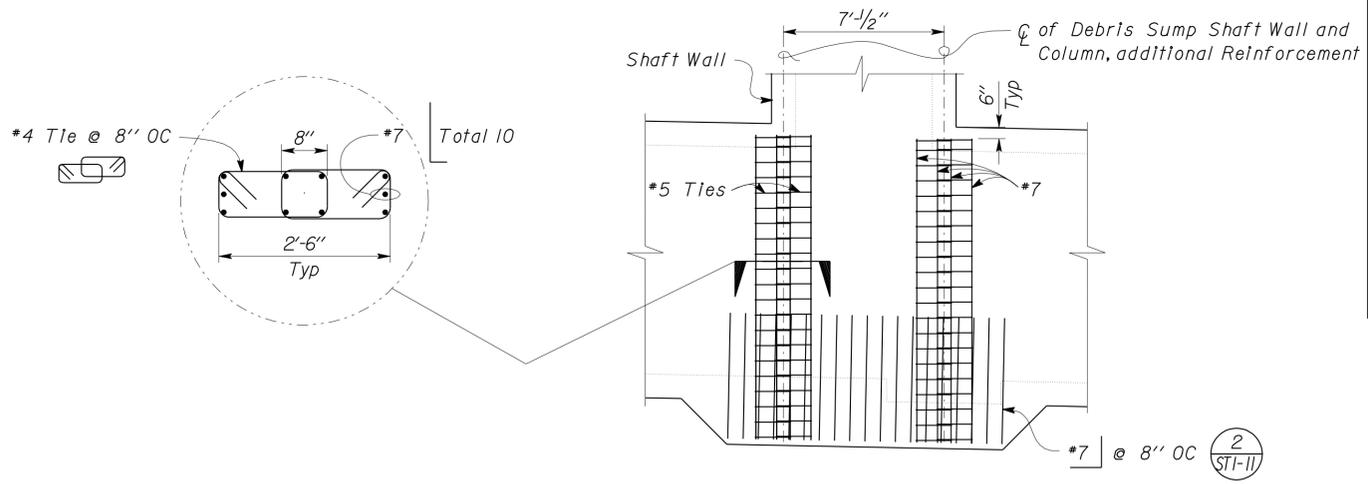


**2 PUMPING PLANT SECTION**  
 Scale 3/16" = 1'-0"

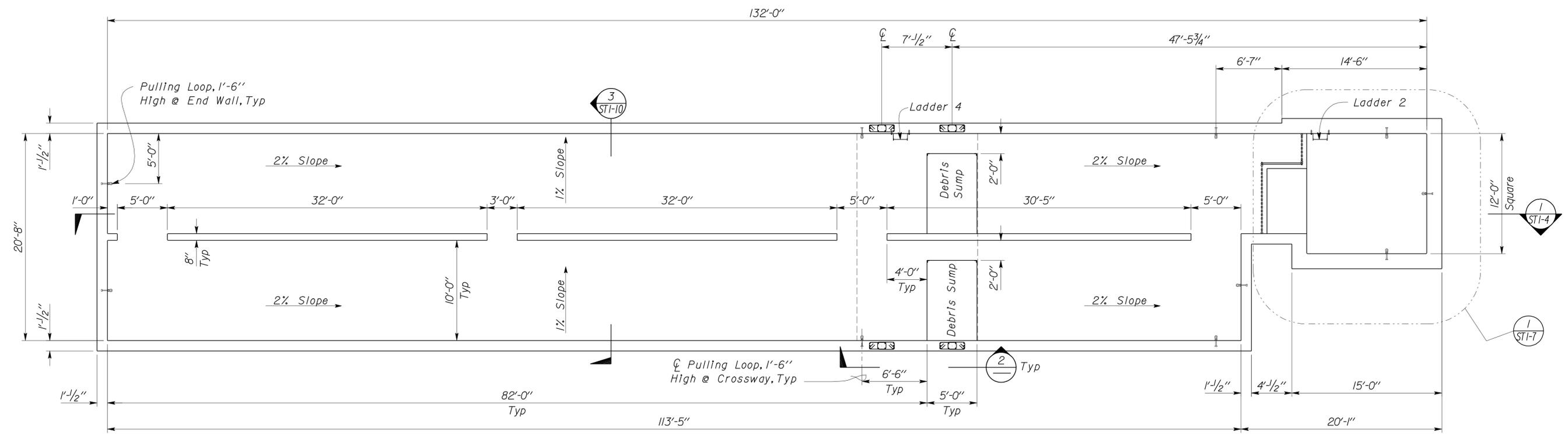
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W		EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP PUMPING PLANT	SHEET ST1-2
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE	PUMPING PLANT SECTION I			
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-12-10	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 7/10 EA 3A1001 D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\ite\st1_02.dgn												

28-MAR-2012 14:49

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1324	1414
<i>N. Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**2** ADDITIONAL WALL REINFORCEMENT  
Scale 1/4" = 1'-0"



**1** FOUNDATION PLAN  
Scale 3/16" = 1'-0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Aleksy Serin	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

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

BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET <b>ST1-3</b>
POST MILE	EAST STOCKTON UP PUMPING PLANT	FOUNDATION PLAN

TAEMWW Imperial Rev. 7/10

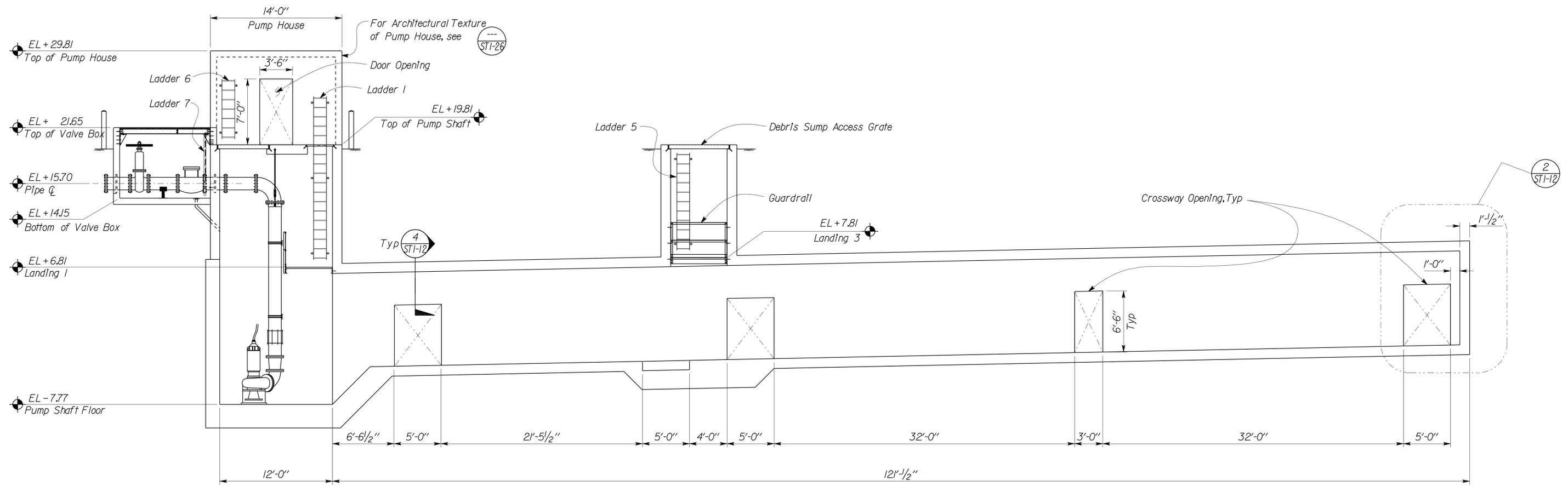
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE  
3581 10000004091  
EA 3A1001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
10-13-10 01-27-11 02-18-11		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1325	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1** LONGITUDINAL SECTION  
Scale 3/16" = 1'-0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

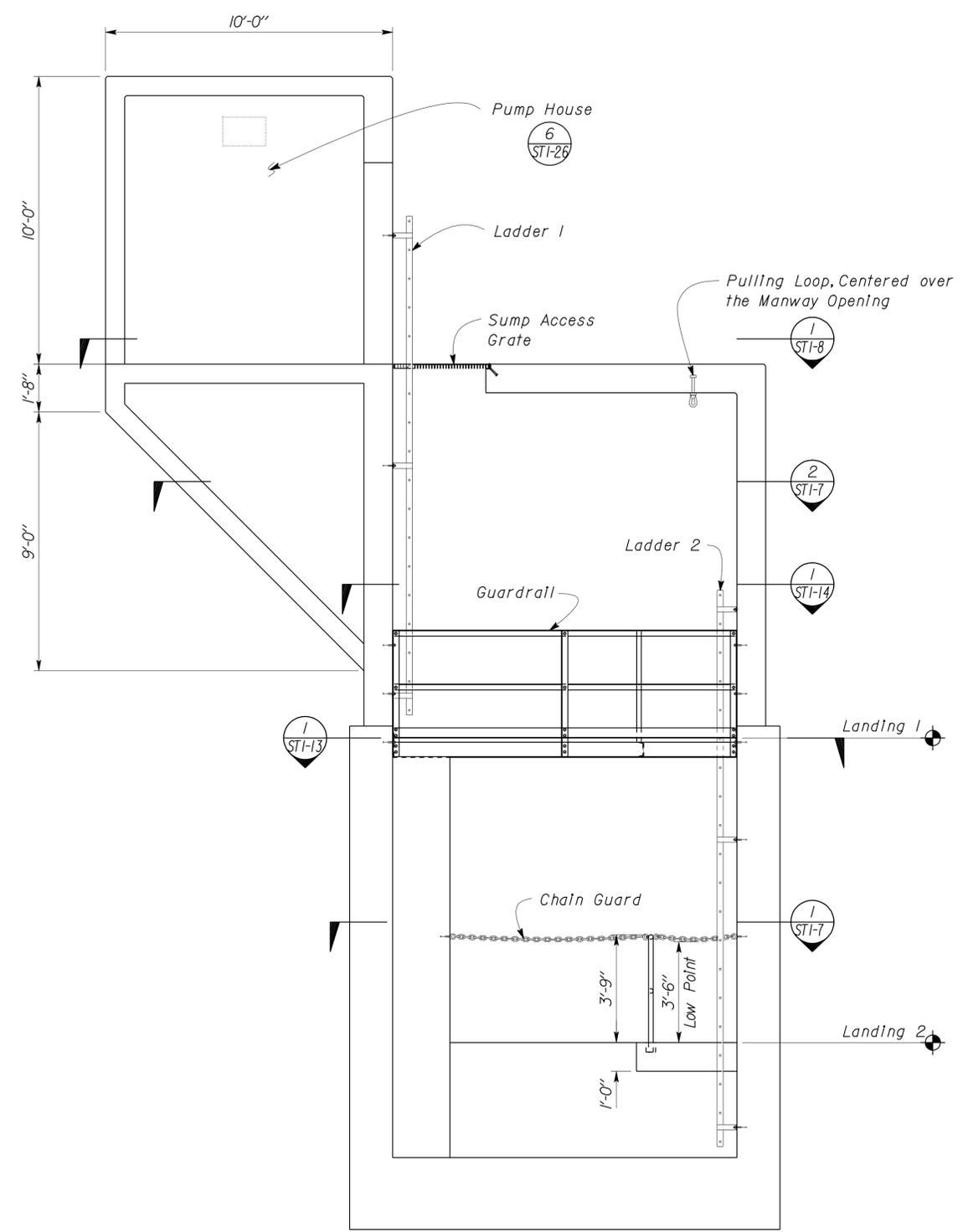
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

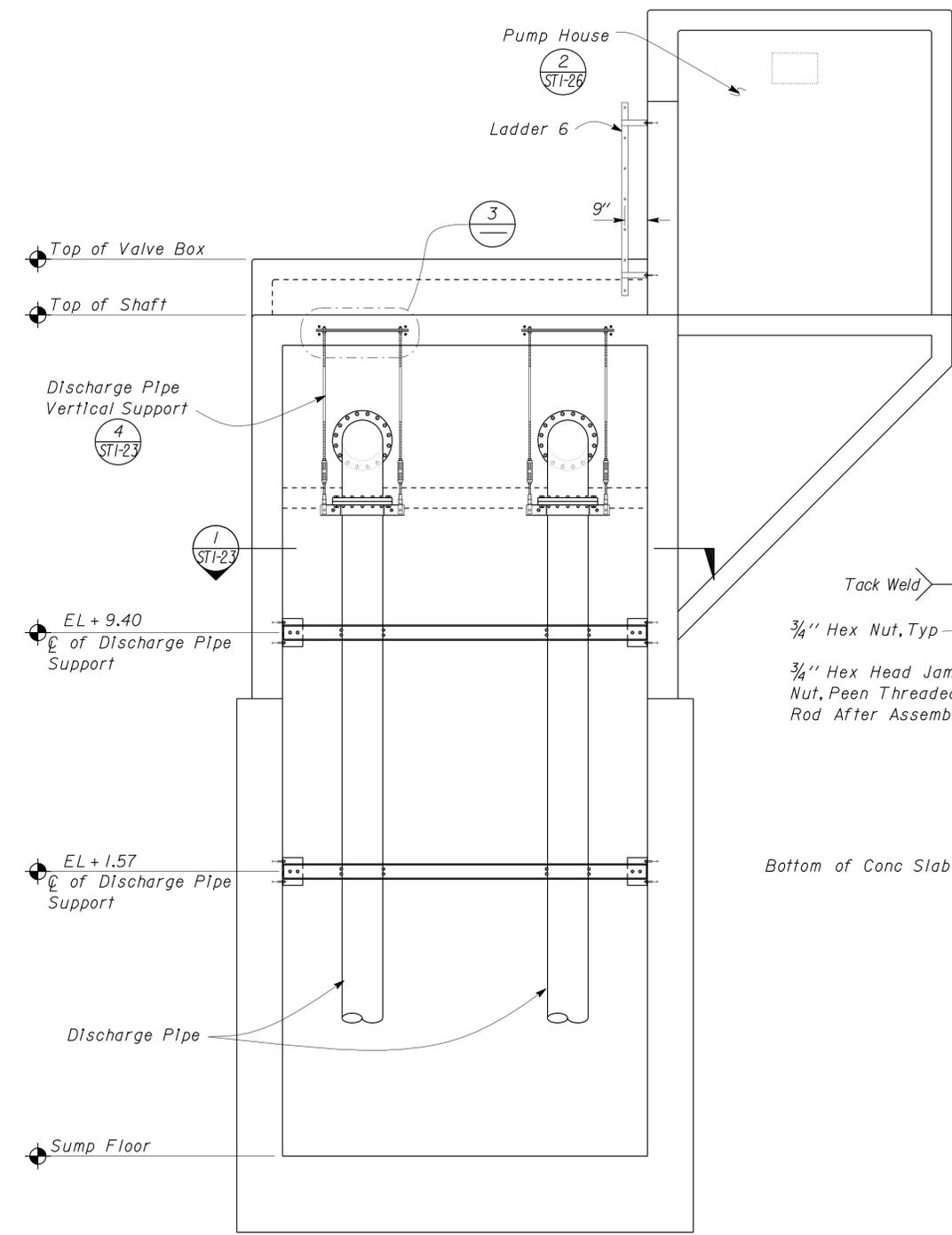
BRIDGE NO. 29-0115W  
POST MILE

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
PUMPING PLANT SECTION 2

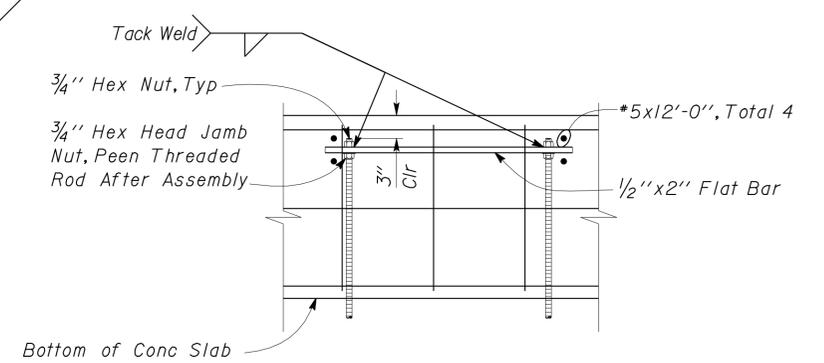
SHEET **ST1-4**



**1 WET PIT SHAFT VERTICAL SECTION**  
Scale 3/8" = 1'-0"



**2 DISCHARGE PIPE SUPPORT ELEVATION**  
Scale 3/8" = 1'-0"



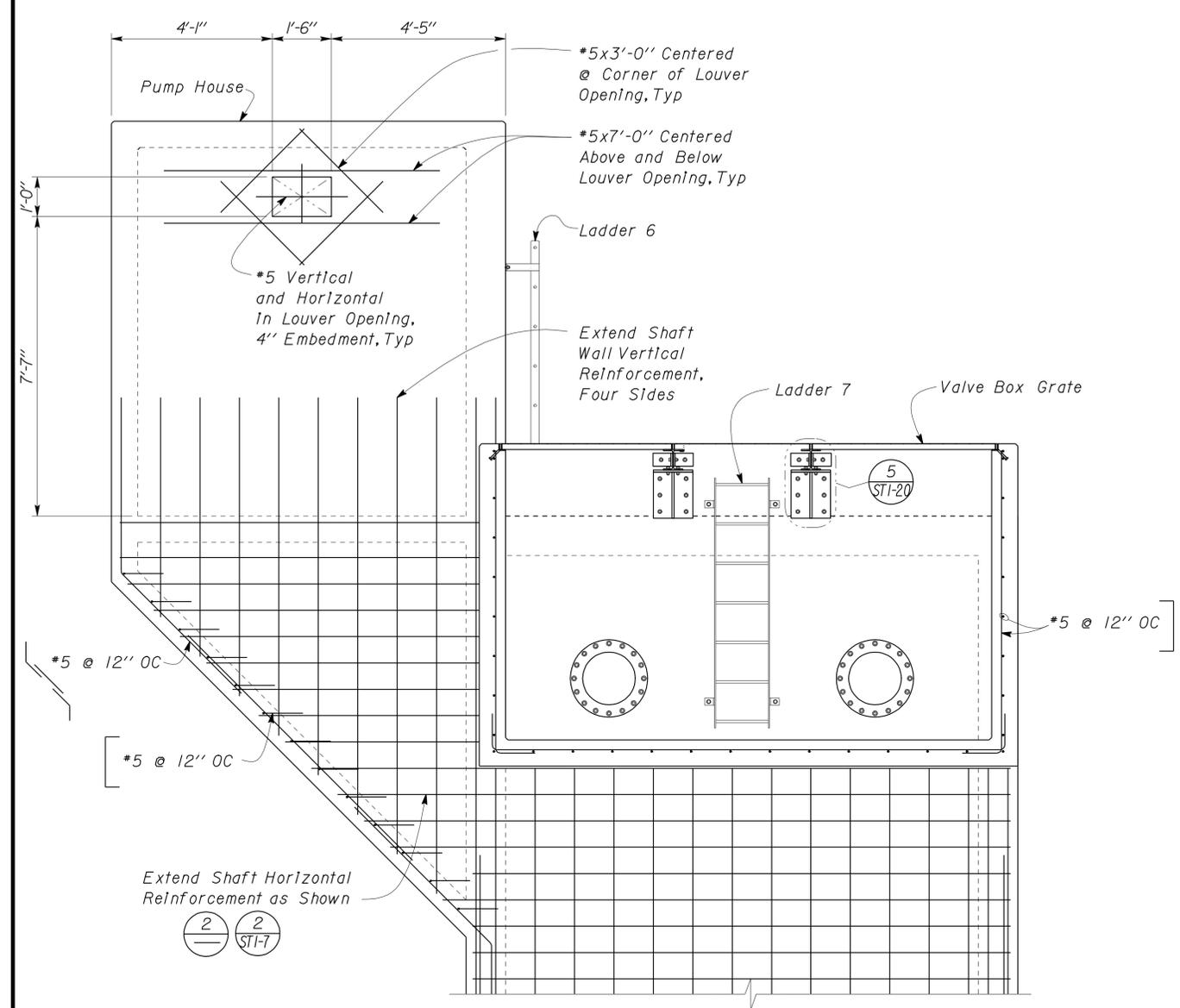
**3 THREADED ROD CONNECTION**  
Scale 1" = 1'-0"

Note:  
For Items Not Noted  
See Detail 4 (STI-23)

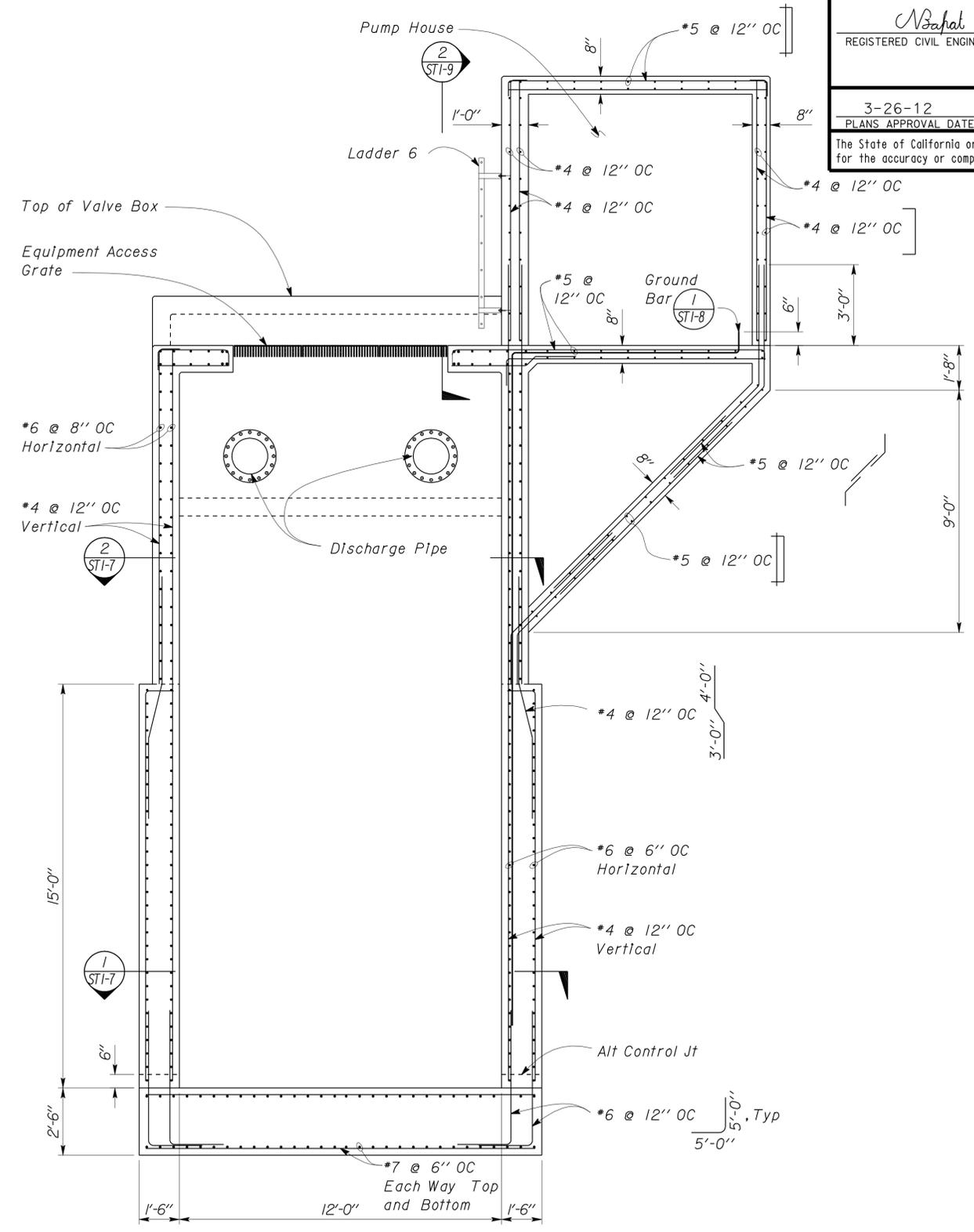
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1327	1414

	
 REGISTERED CIVIL ENGINEER	10-21-11 DATE
3-26-12 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	

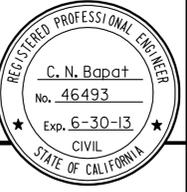


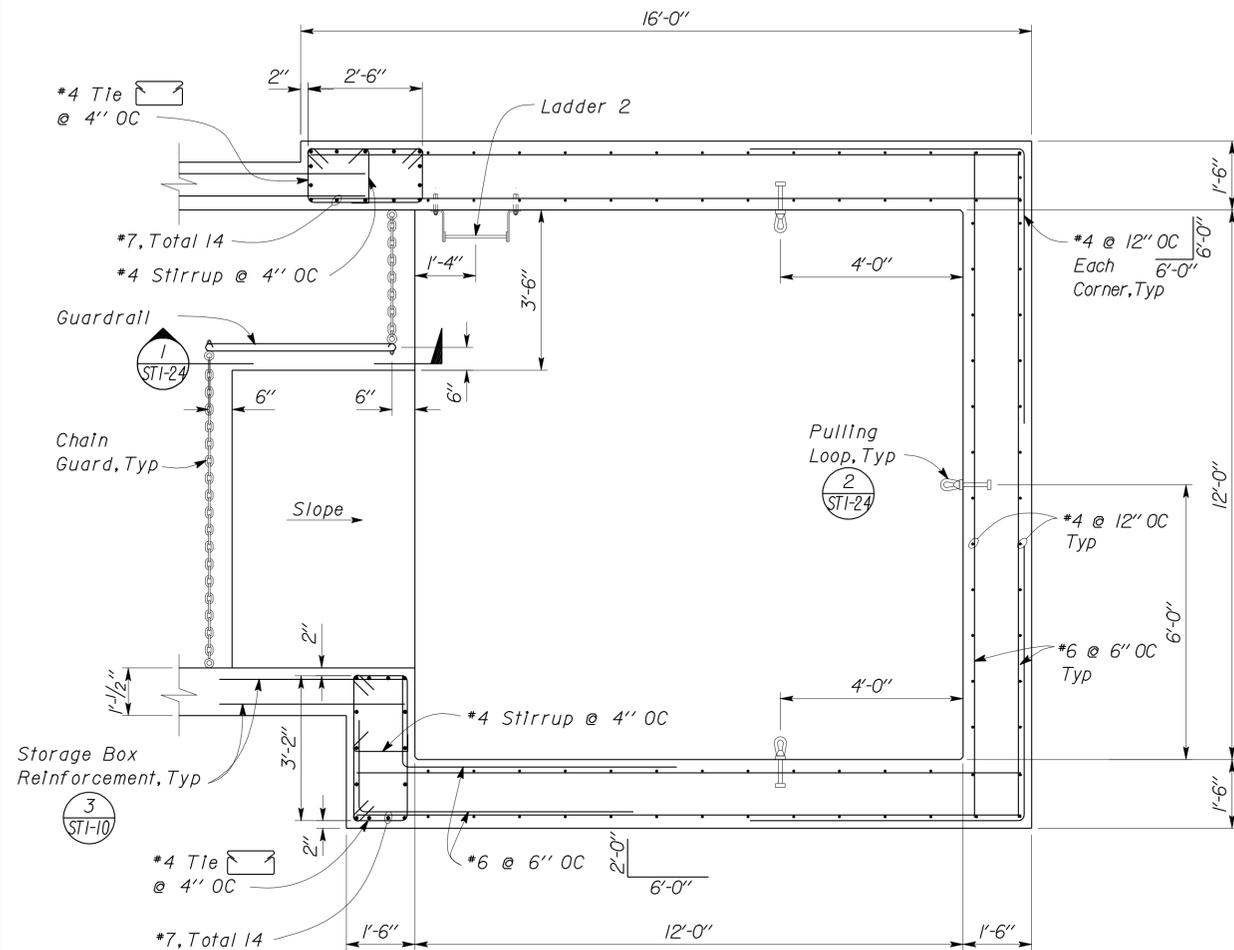
**1 REINFORCEMENT DETAIL**  
 Scale 1/2" = 1'-0"



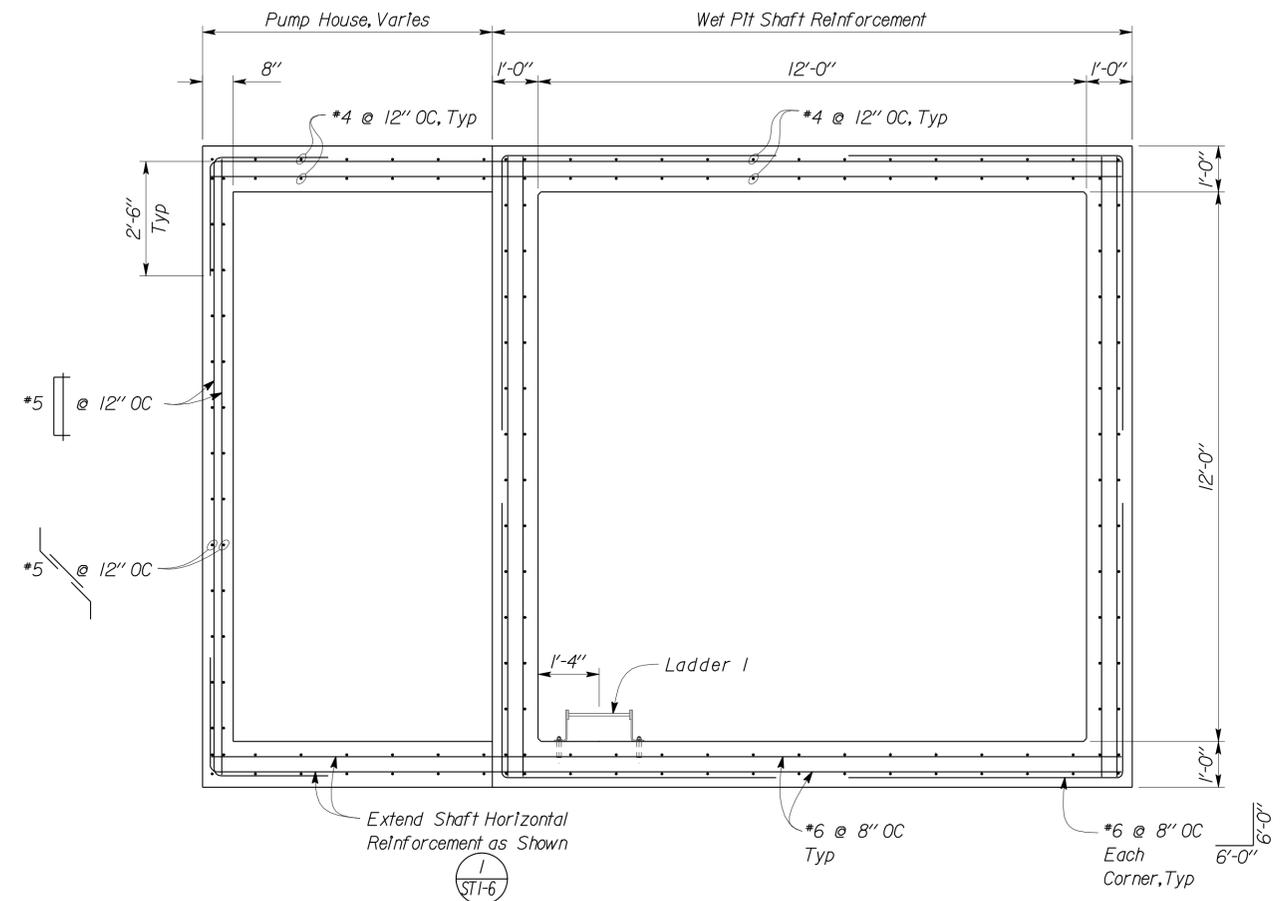
**2 WET PIT SHAFT REINFORCEMENT**  
 Scale 3/8" = 1'-0"

DESIGN BY <b>Chandra Bapat</b> CHECKED Thomas Tong	BY <b>Chandra Bapat</b> CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET <b>ST1-6</b>
				POST MILE EAST STOCKTON UP PUMPING PLANT		
DETAILS BY <b>Aleksey Serin</b> CHECKED Chandra Bapat	BY <b>Chandra Bapat</b> CHECKED Chandra Bapat	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES 12-08-10 02-15-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1328	1414
<i>N. Bapat</i>			10-21-11		
REGISTERED CIVIL ENGINEER			DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 WET PIT SHAFT SECTION**  
Scale 1" = 1' - 0"



**2 WET PIT SHAFT SECTION**  
Scale 1" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Aleksy Serin	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF  
**CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL  
AND  
STRUCTURAL DESIGN

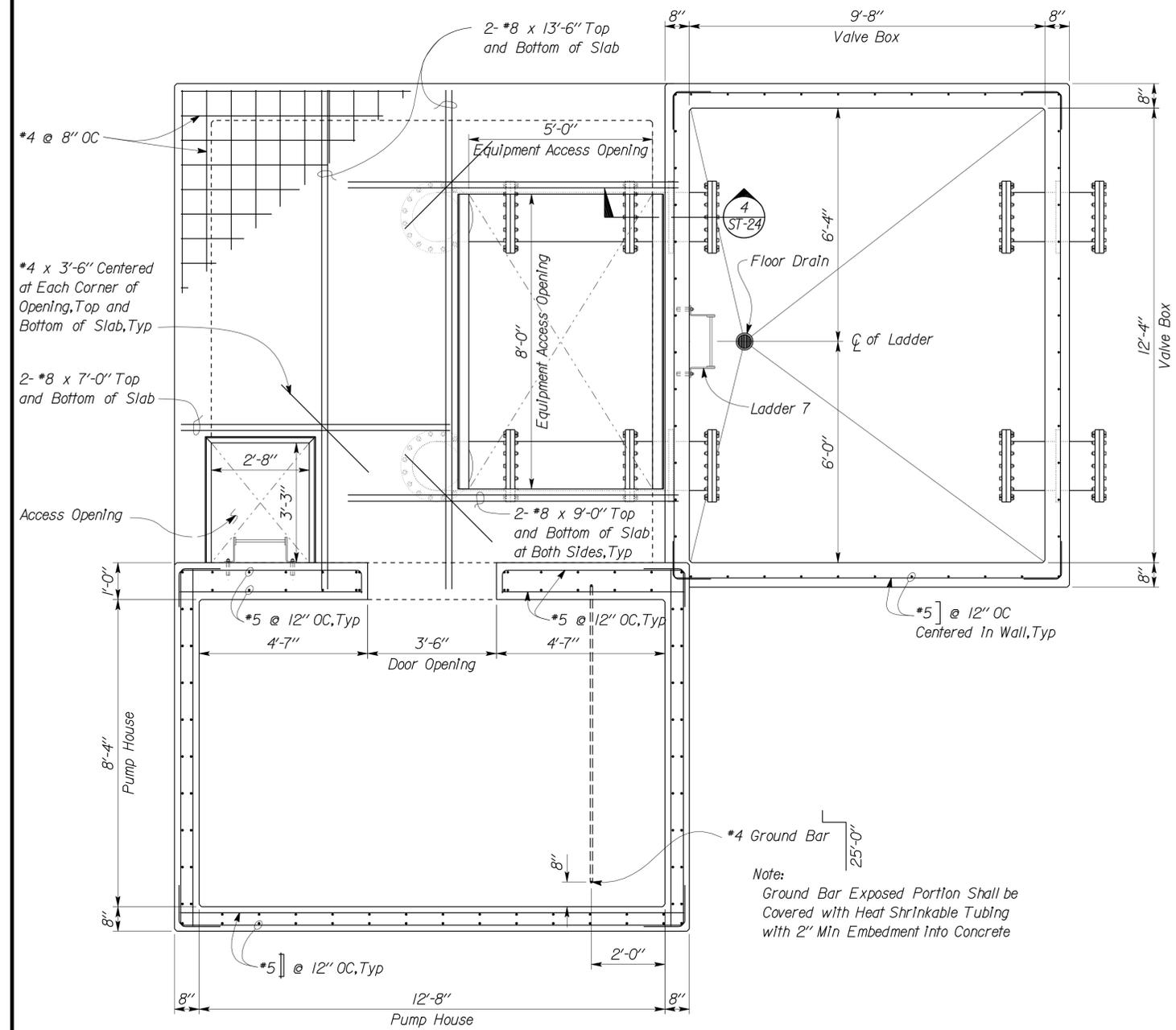
BRIDGE NO.	29-0115W
POST MILE	

**EAST STOCKTON UP AND RTE 26/99  
Sep PUMPING PLANTS**

EAST STOCKTON UP  
PUMPING PLANT  
**WET PIT SHAFT HORIZONTAL SECTIONS**

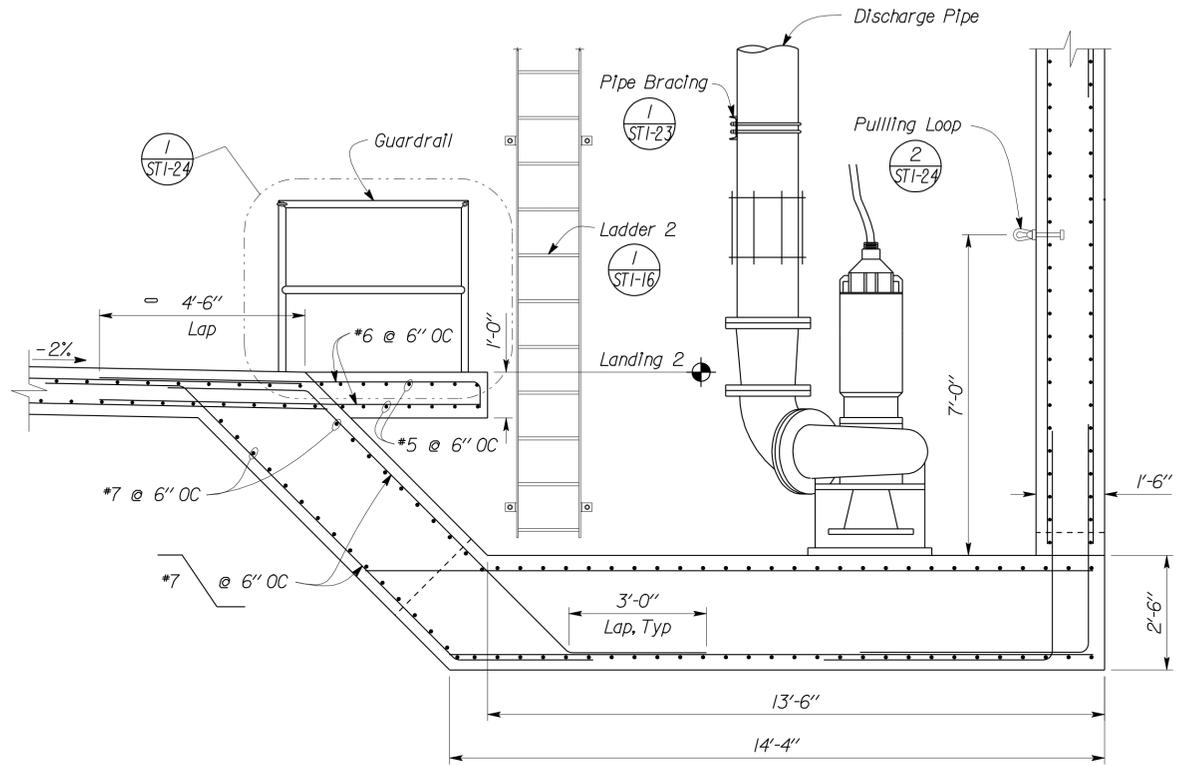
SHEET  
**ST1-7**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1329	1414
			3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



Note:  
For Exterior Elevation of Pumping Plant, see 

**1** ROOF SLAB, PUMP HOUSE FLOOR PLAN, AND VALVE BOX SECTION  
Scale 1/2" = 1'-0"

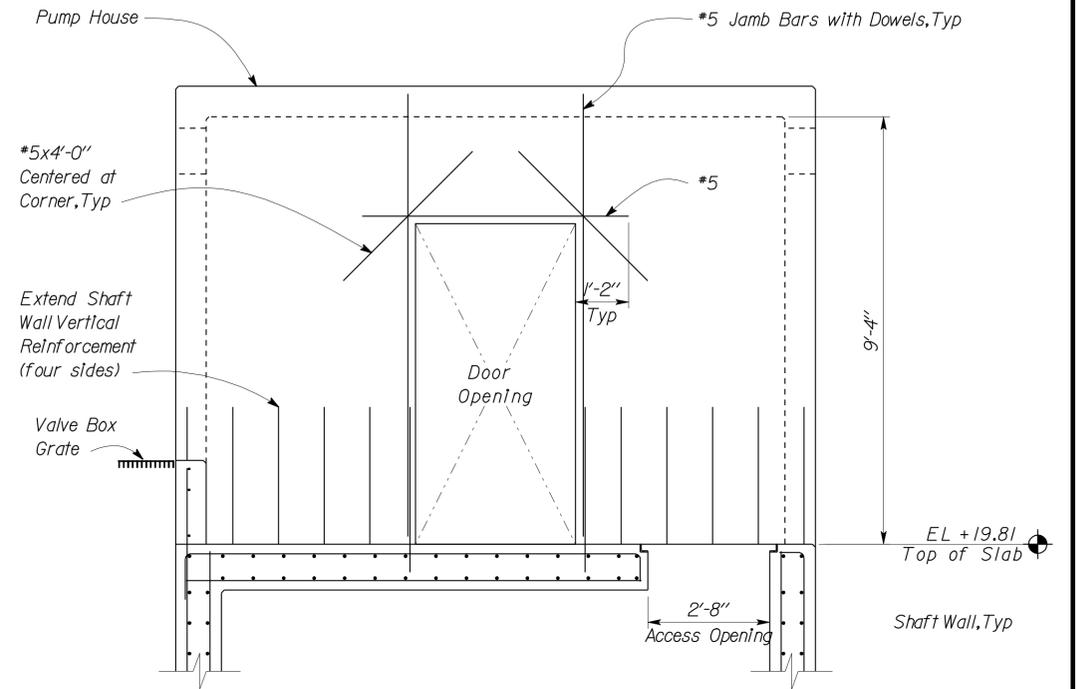
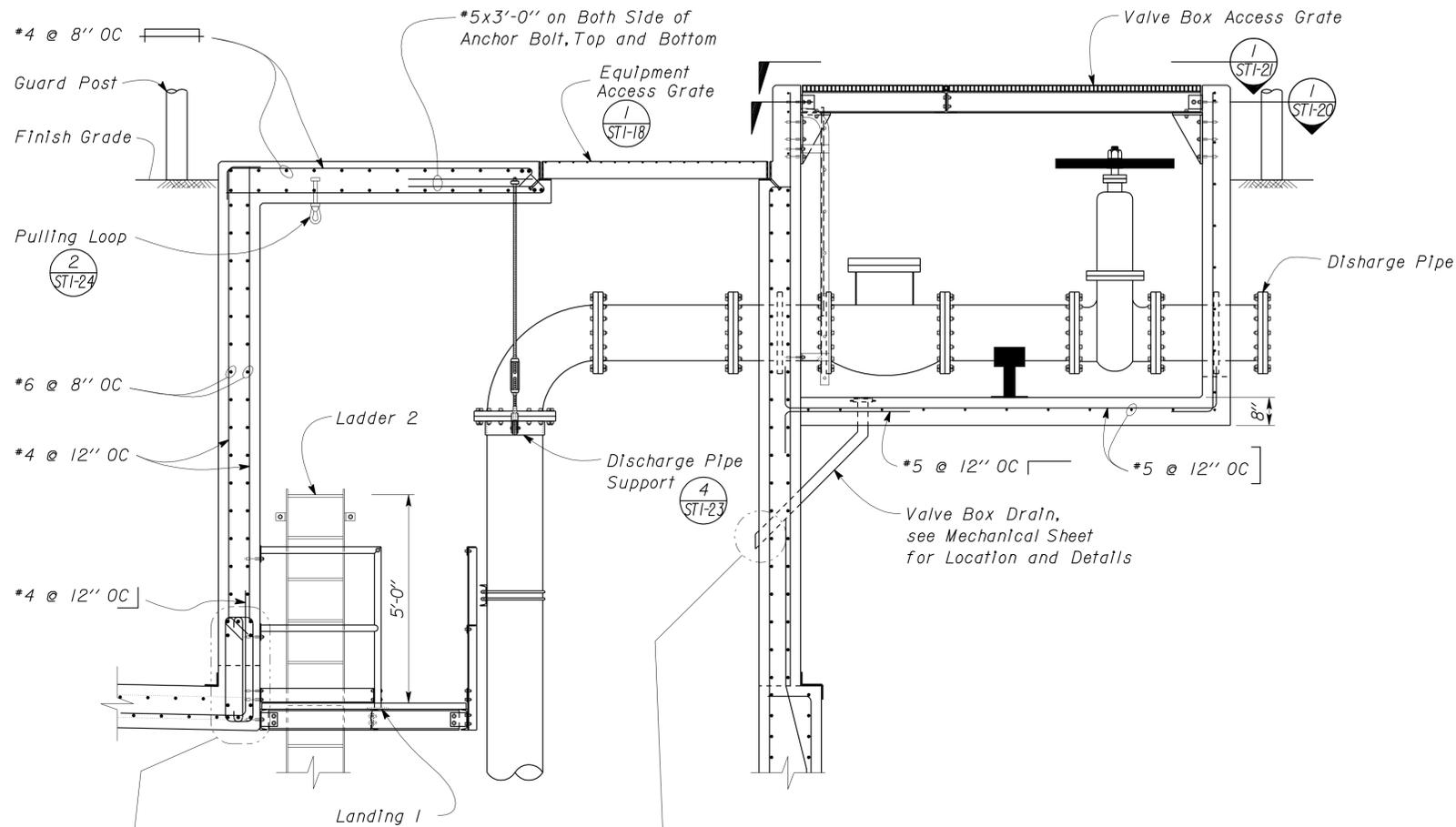


Note:  
For more Reinforcement Information, see 

**2** LANDING 2 SECTION  
Scale 1/2" = 1'-0"

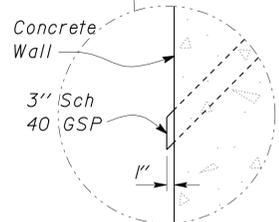
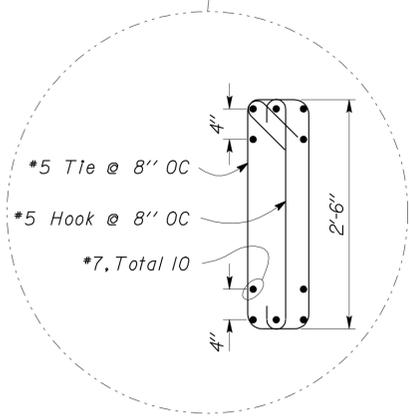
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W		EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET ST1-8
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE				
QUANTITIES	BY		CHECKED		UNIT	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	PROJECT NUMBER & PHASE	10000004091	12-17-10	
TAEMWW Imperial Rev. 7/10					EA 3A1001			D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\1fe\st1_08.dgn				

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1330	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



Note:  
For Shaft Reinforcement, see (1)

**2 PUMP HOUSE ELEVATION**  
Scale 1" = 1'-0"



**1 TOP SHAFT/VALVE BOX SECTION**  
Scale 1" = 1'-0"

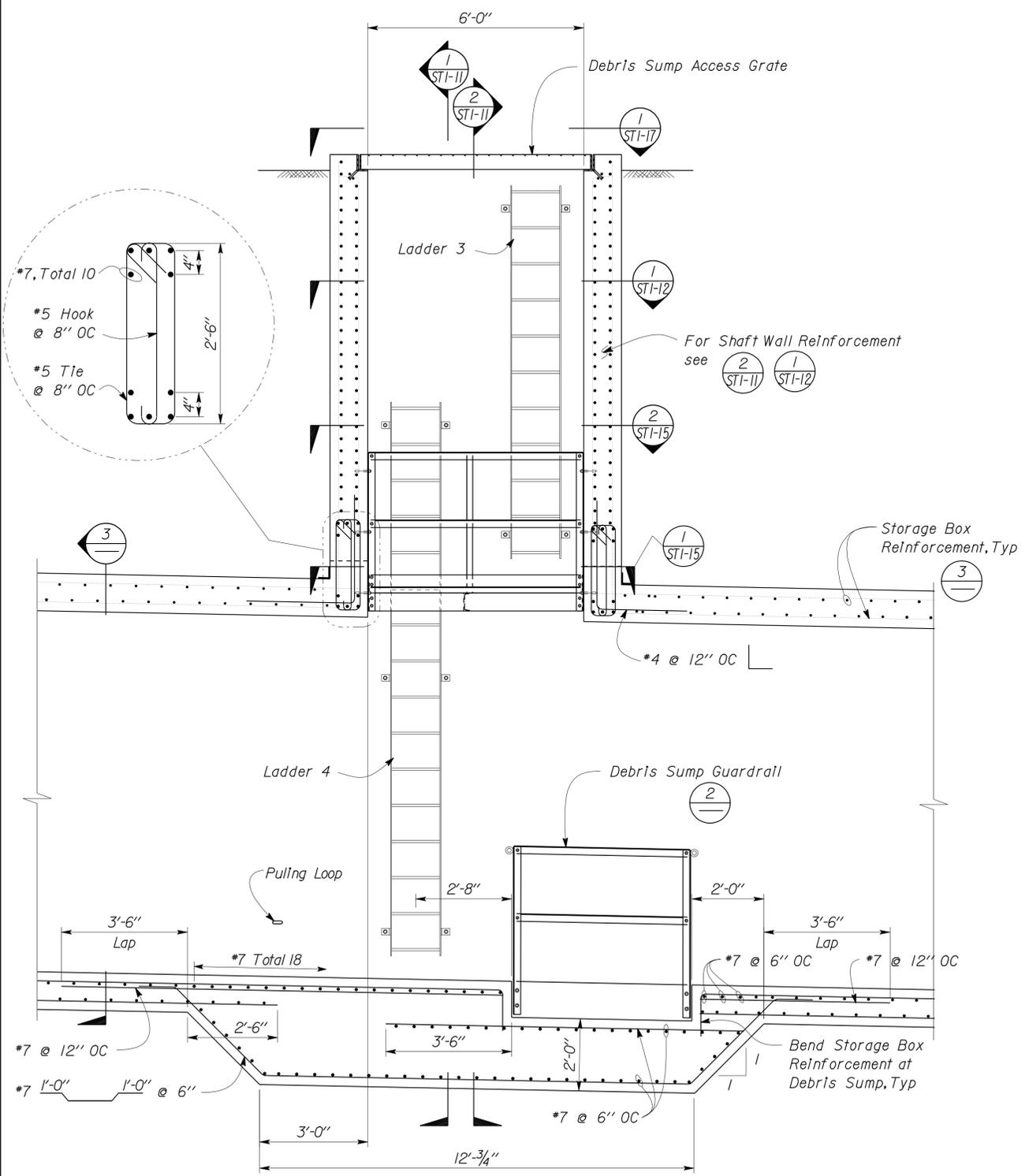
DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

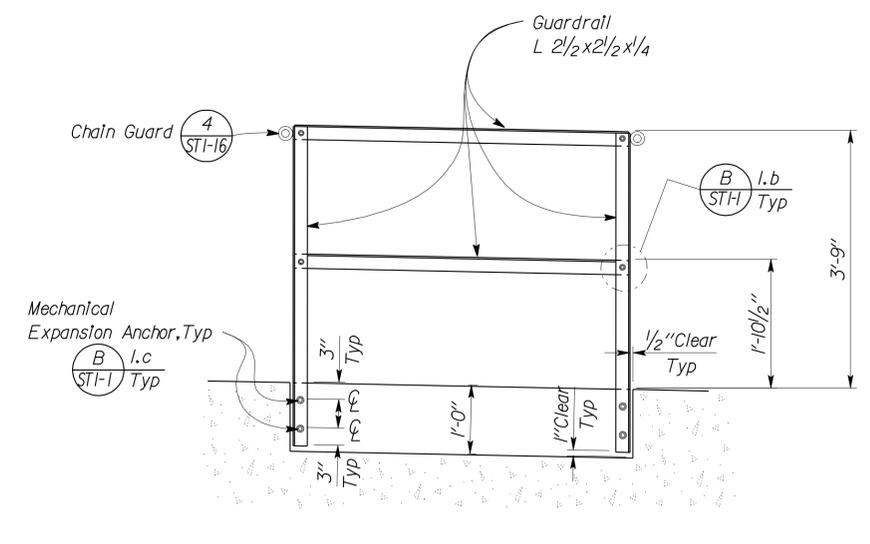
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET OF <b>ST1-9</b>
POST MILE EAST STOCKTON UP PUMPING PLANT	<b>TOP SHAFT, VALVE BOX SECTIONS / PUMP HOUSE ELEVATION</b>	

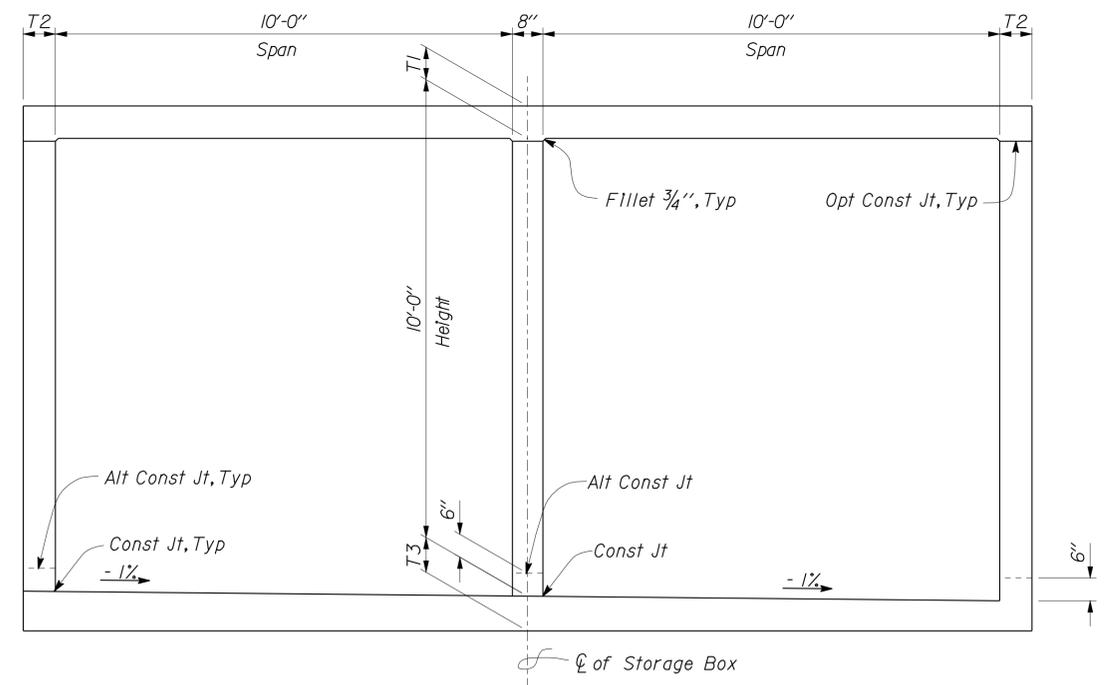
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1331	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 DEBRIS SUMP SECTION**  
Scale 1/2" = 1' - 0"



**2 GUARDRAIL DETAIL**  
Scale 3/4" = 1' - 0"

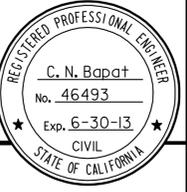


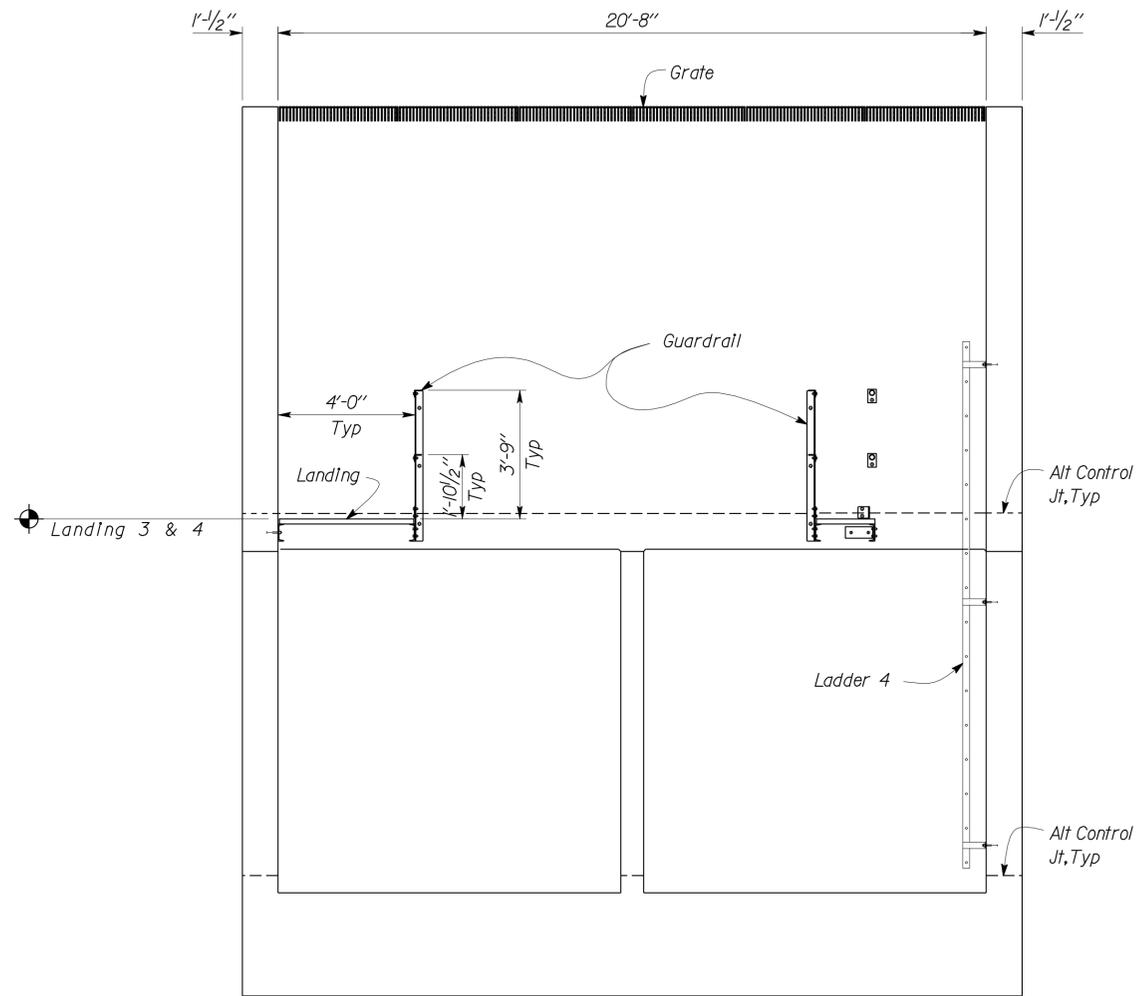
Note:  
For Storage Box Reinforcement see Standard Plans D81.  
Use : Span 10'-0" Height 10'-0"  
Maximum earth cover (design) 20'-0"

**3 STORAGE BOX SECTION**  
Scale 1/2" = 1' - 0"

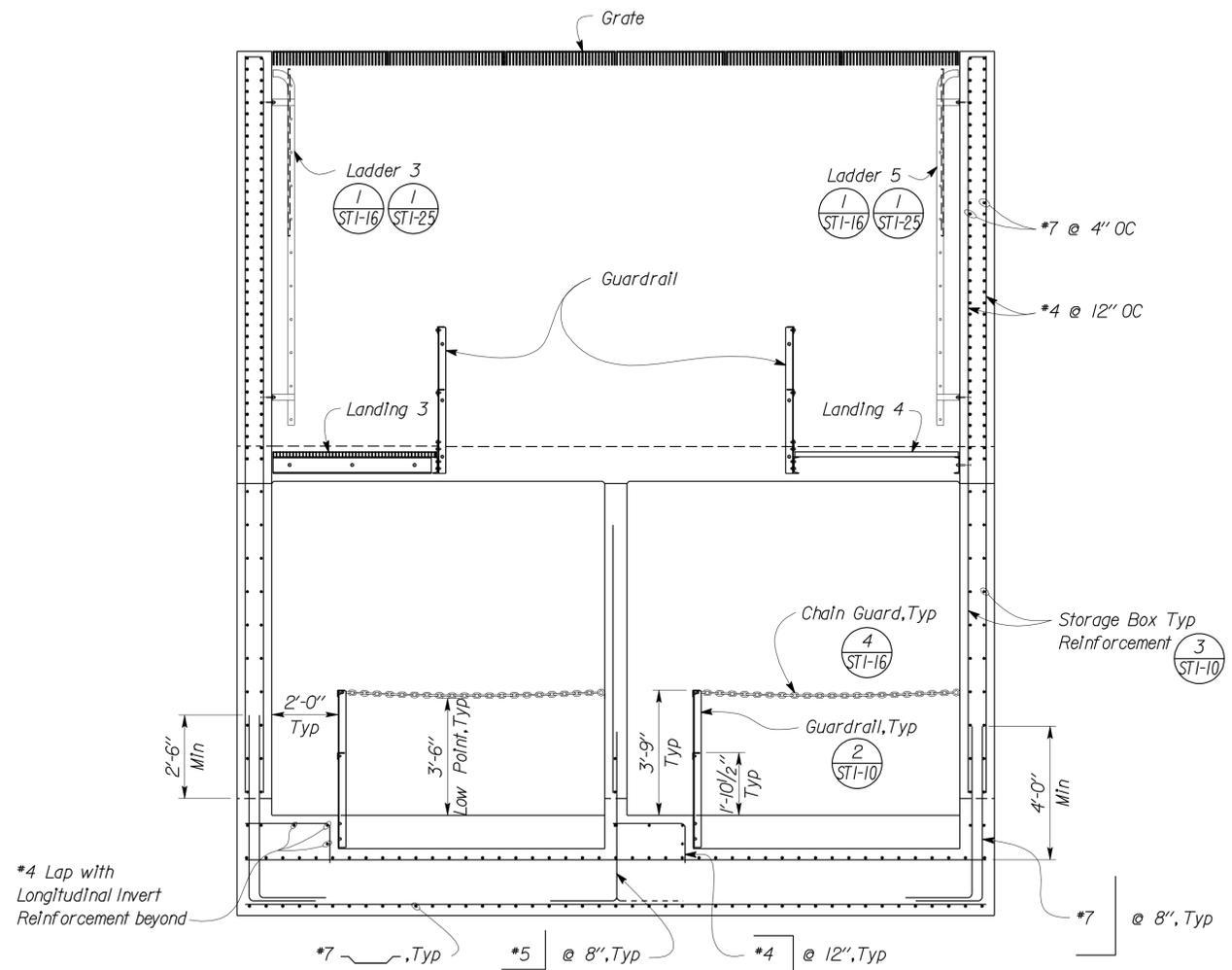
DESIGN BY Chandra Bapat CHECKED Thomas Tong	BY Chandra Bapat CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b>	SHEET <b>ST1-10</b>
				POST MILE EAST STOCKTON UP PUMPING PLANT		
DETAILS BY Aleksey Serin CHECKED Chandra Bapat	BY Aleksey Serin CHECKED Chandra Bapat	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE EA 3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-27-10 02-18-11	SHEET OF

28-MAR-2012 14:51

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1332	1414
 REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



1 **DEBRIS SUMP SECTION ONE**  
 Scale 3/8" = 1' - 0"



2 **DEBRIS SUMP SECTION TWO**  
 Scale 3/8" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Aleksy Serin	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

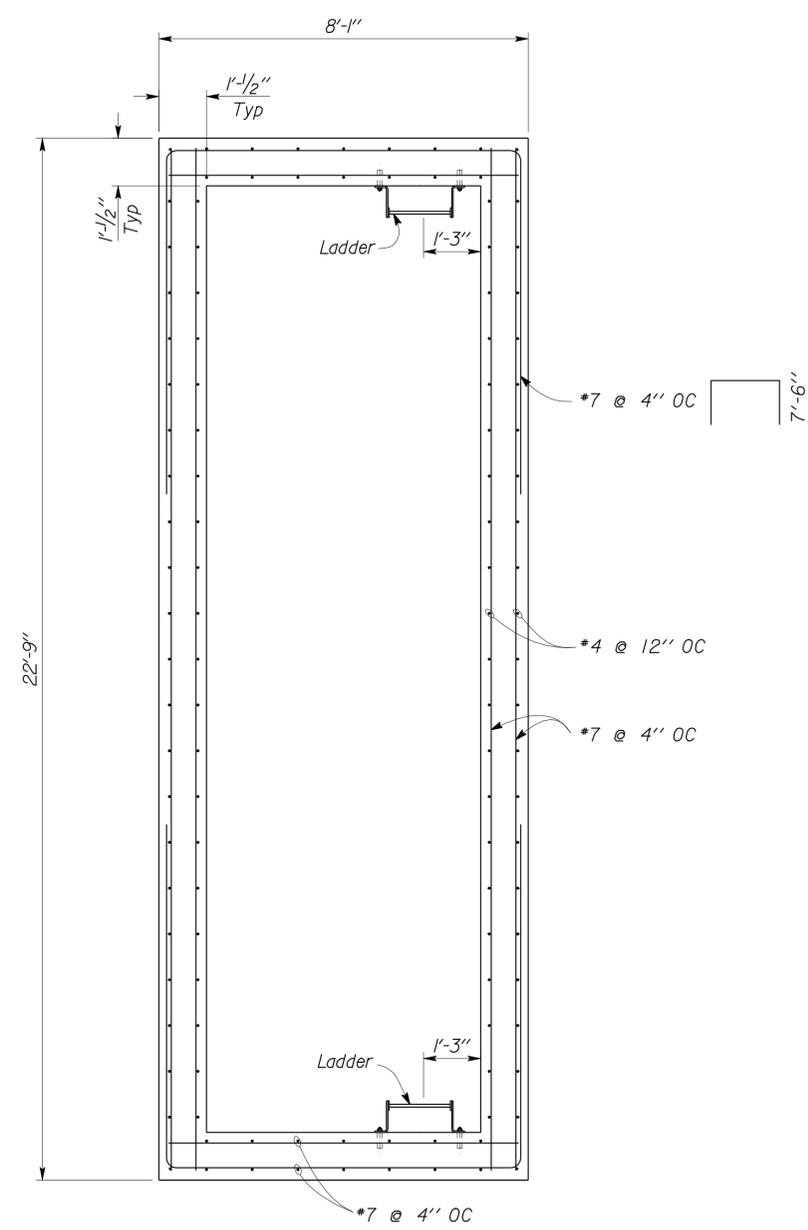
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	29-0115W
POST MILE	

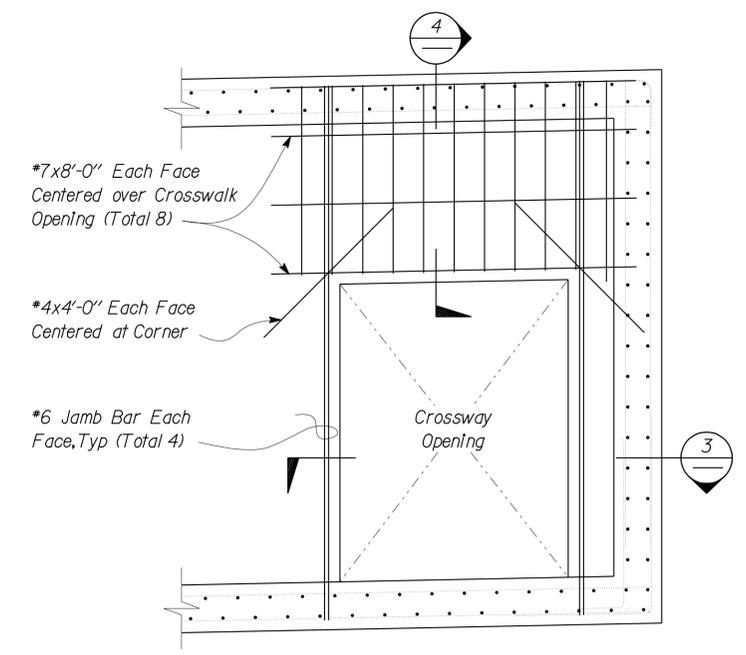
**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
 EAST STOCKTON UP PUMPING PLANT  
 DEBRIS SUMP VERTICAL SECTIONS

SHEET  
**ST1-11**

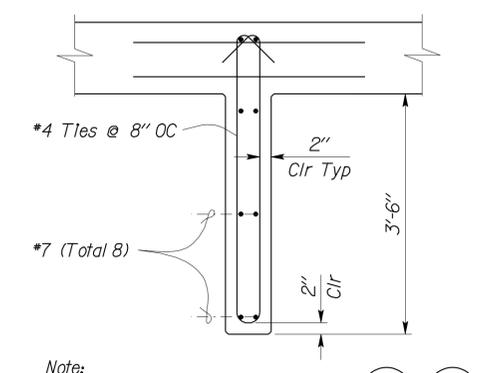
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1333	1414
			10-21-11 REGISTERED CIVIL ENGINEER DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



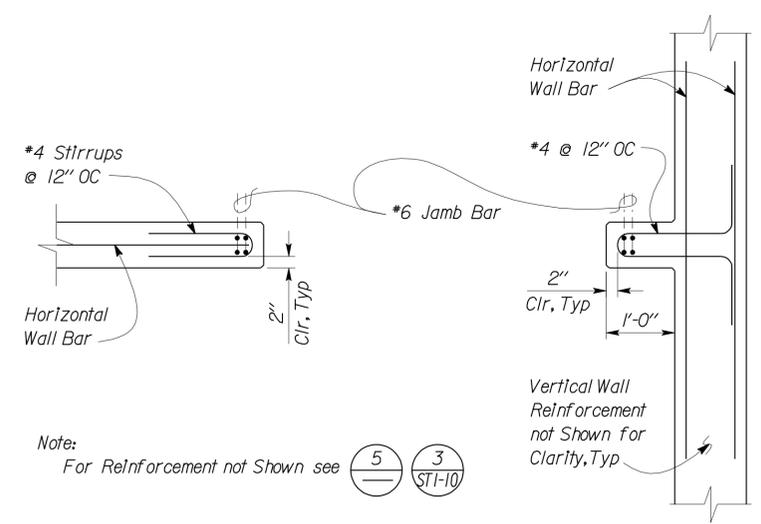
**1 DEBRIS SUMP SHAFT SECTION**  
Scale 1/2" = 1' - 0"



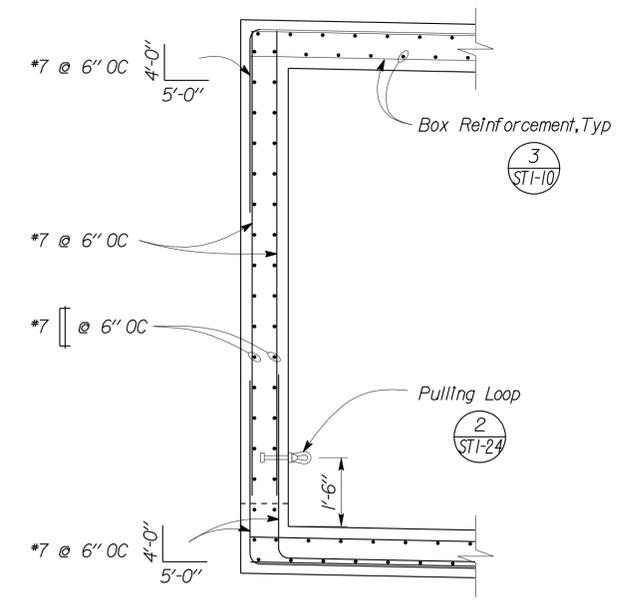
**2 CROSSWAY SECTION**  
Scale 1/2" = 1' - 0"



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



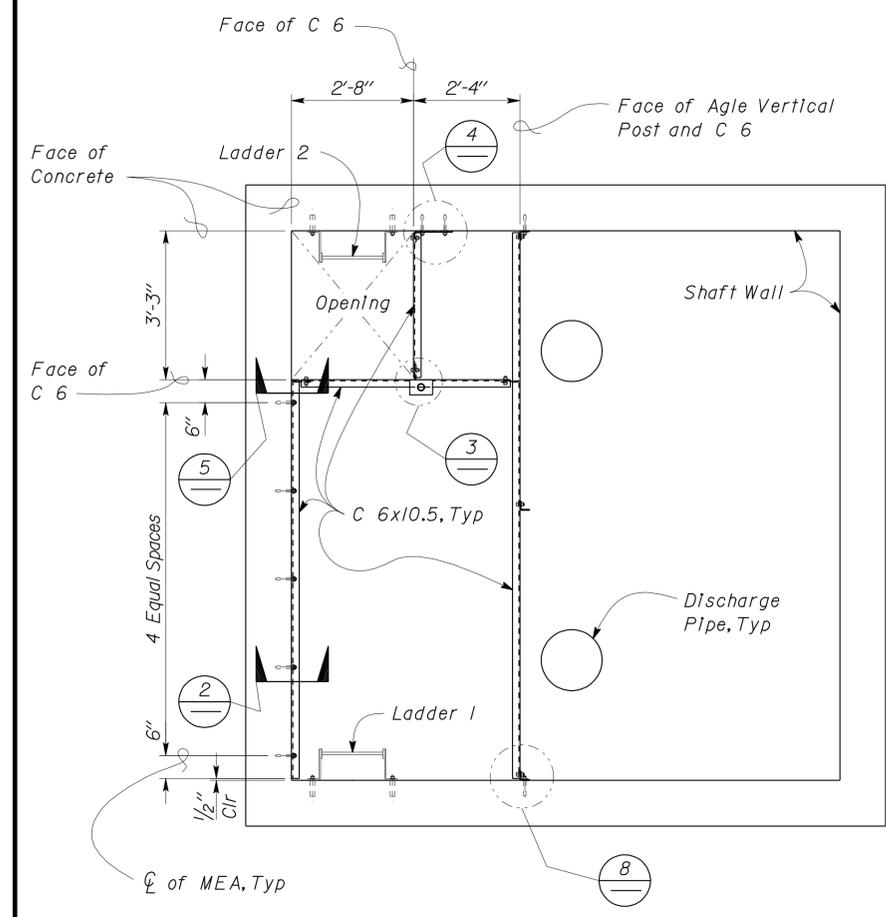
**4 CROSSWAY SECTION**  
Scale 3/4" = 1' - 0"



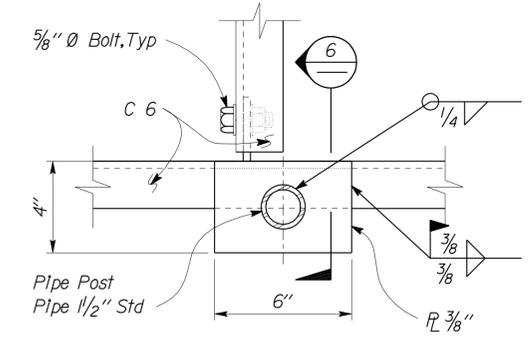
**5 ENDWALL SECTION**  
Scale 1/2" = 1' - 0"

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	EAST STOCKTON UP PUMPING PLANT		ST1-12
QUANTITIES	BY		CHECKED				POST MILE	DEBRIS SUMP AND CROSSWAY SECTIONS		OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET
UNIT PROJECT NUMBER & PHASE					EA 3A1001	3581	10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES		01-28-11 02-16-11	OF
TAEMWW Imperial Rev. 7/10 D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\1fe\st1_12.dgn											

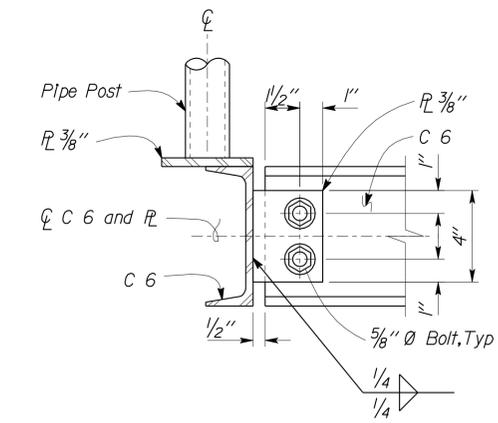
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1334	1414
<i>N. Bapat</i>			10-21-11		
REGISTERED CIVIL ENGINEER			DATE		
3-26-12					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



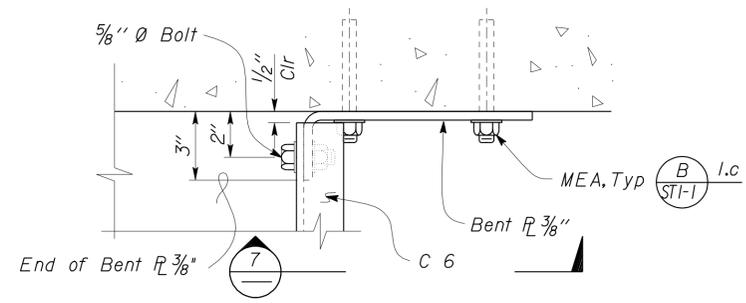
**1 LANDING I FRAME PLAN**  
Scale 1/2" = 1'-0"



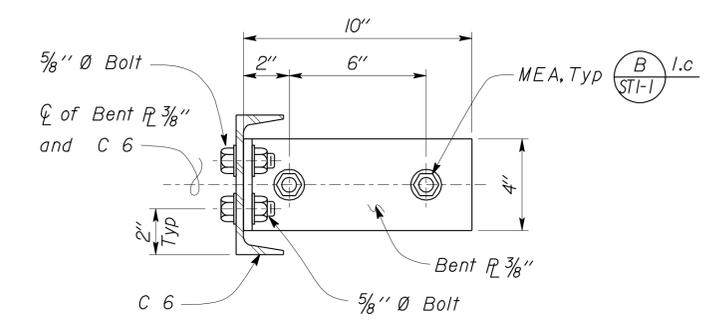
**3 C6 TO C6 AT OPENING**  
Scale 3" = 1'-0"



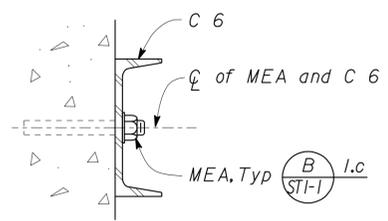
**6 C6 TO C6 SECTION**  
Scale 3" = 1'-0"



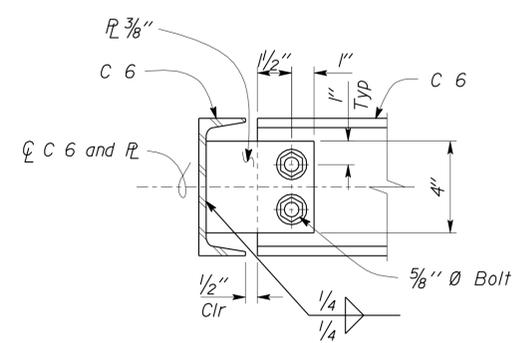
**4 C6 TO WALL CONNECTION**  
Scale 3" = 1'-0"



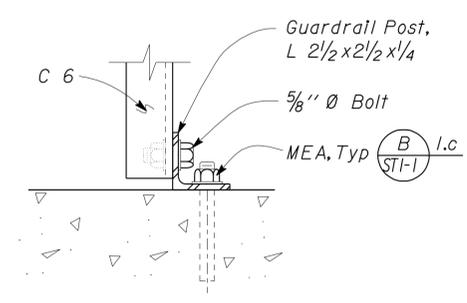
**7 C6 TO C6 ELEVATION**  
Scale 3" = 1'-0"



**2 C6 TO WALL CONNECTION**  
Scale 3" = 1'-0"



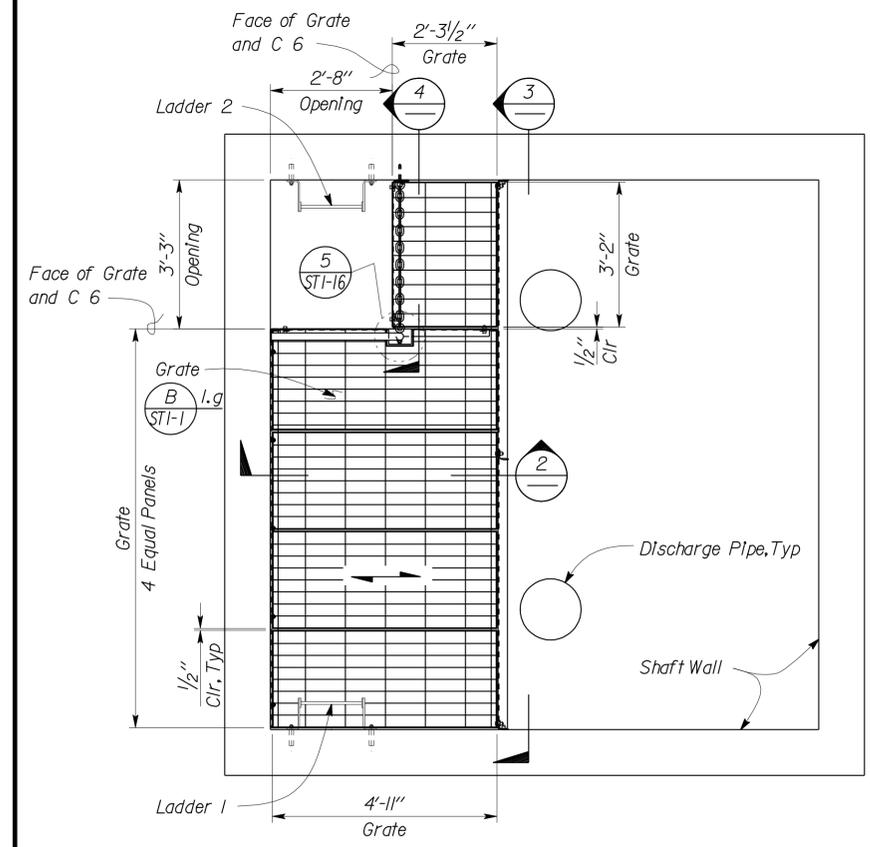
**5 C6 TO C6 CONNECTION**  
Scale 3" = 1'-0"



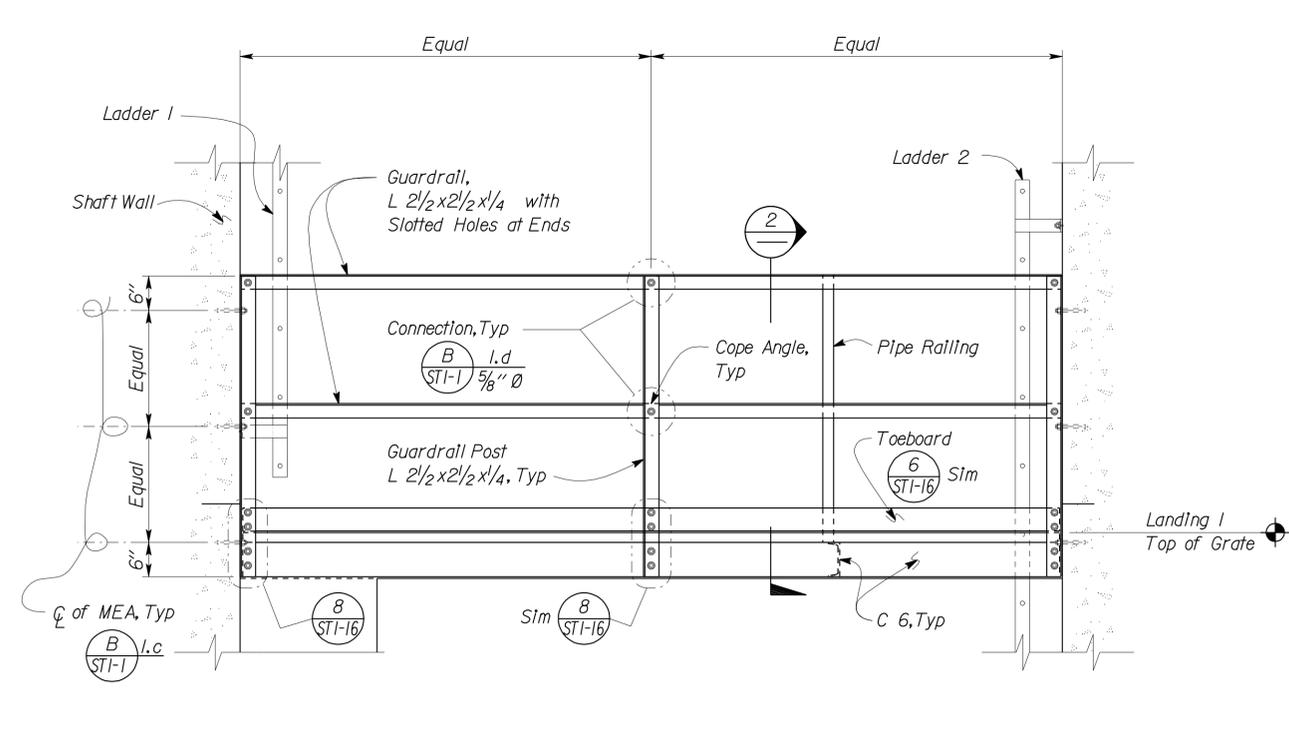
**8 GUARDRAIL POST TO WALL AND C6**  
Scale 3" = 1'-0"

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	EAST STOCKTON UP PUMPING PLANT		ST1-13
QUANTITIES	BY		CHECKED				POST MILE	LANDING I FRAMING PLAN AND DETAILS		OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET
UNIT PROJECT NUMBER & PHASE					EA 3A1001	3581	10000004091	REVISION DATES (PRELIMINARY STAGE ONLY)		OF	
TAEMWW Imperial Rev. 7/10							02-01-11		D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd1fe\st1_13.dgn		

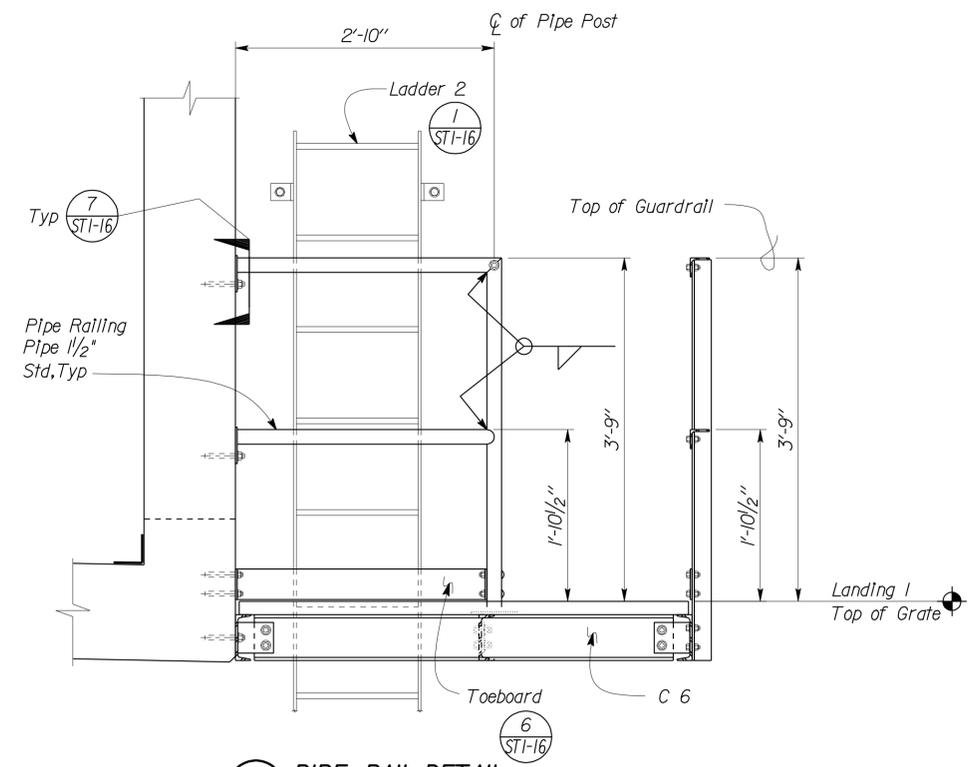
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1335	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



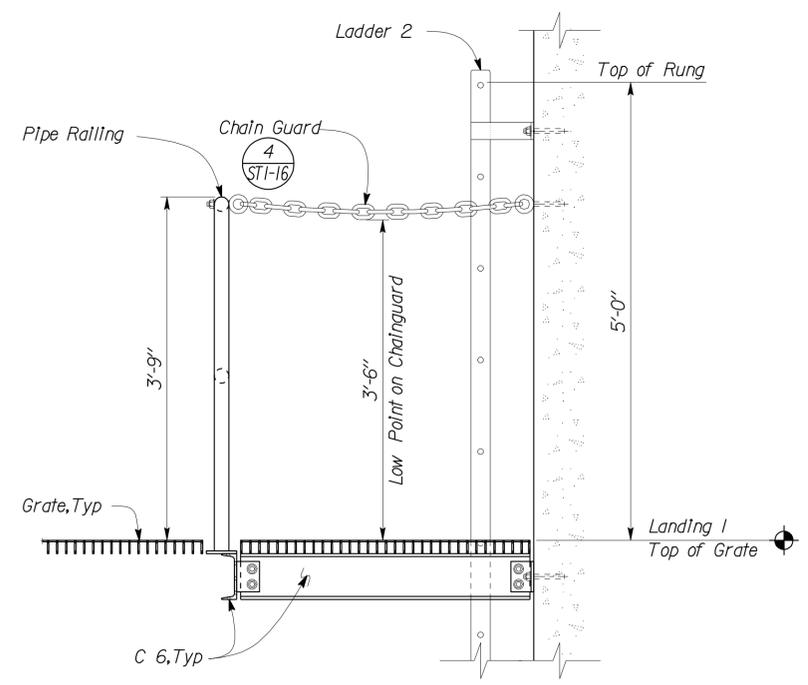
**1 LANDING 1 GRATE**  
Scale 1/2" = 1' - 0"



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



**2 PIPE RAIL DETAIL**  
Scale 1" = 1' - 0"

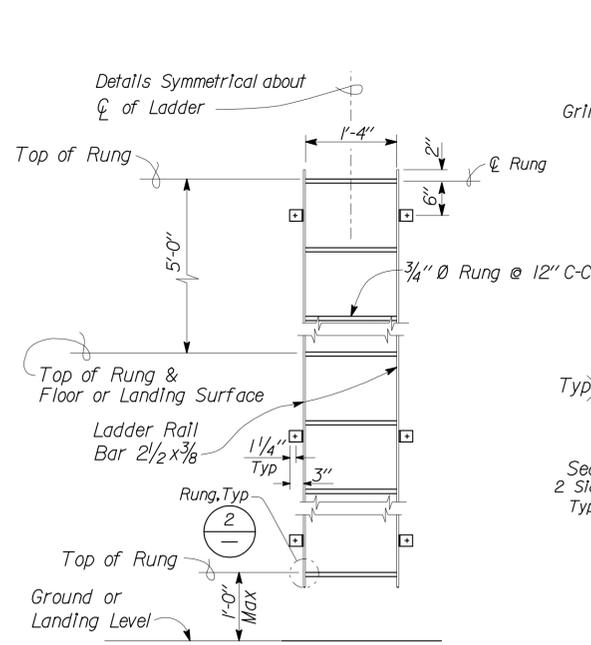


**4 CHAIN GUARD DETAIL**  
Scale 1" = 1' - 0"

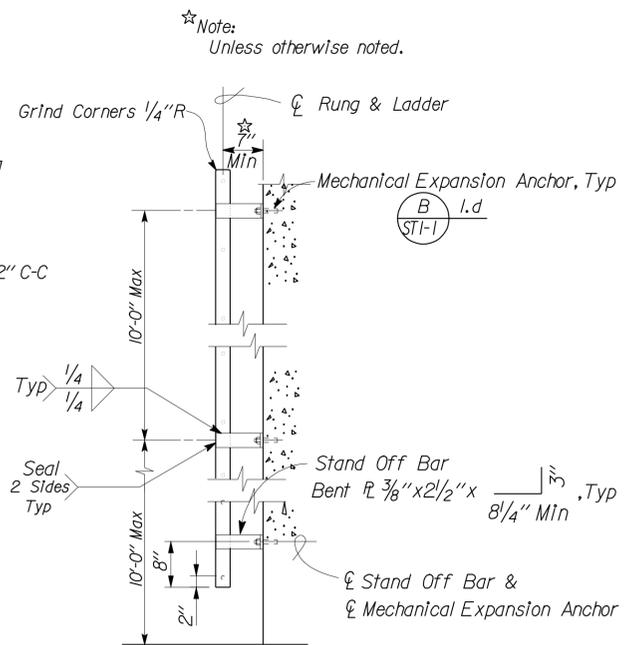
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99		SHEET OF				
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	Sep PUMPING PLANTS		ST1-14			
QUANTITIES	BY		CHECKED				POST MILE	EAST STOCKTON UP PUMPING PLANT	LANDING GRATE AND GUARDRAIL DETAILS					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-02-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial Rev. 7/10 EA 3A1001 D:\User\projects\dst_10\3A1001\st1_East_stockton_UP_MLK\Expd\ite\st1_14.dgn														



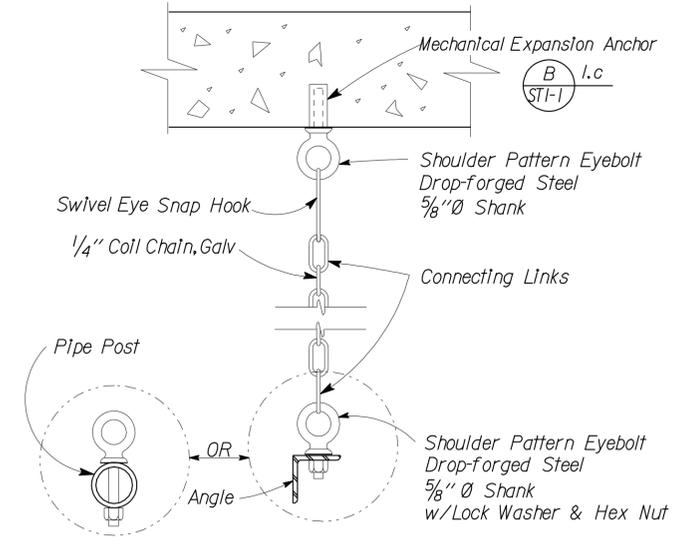
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1337	1414
			3-26-12 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



**1** ELEVATION



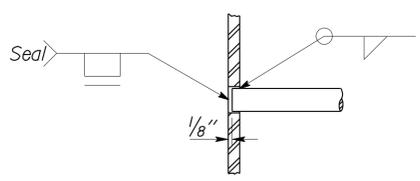
**2** SIDE VIEW



**4** CHAIN GUARD DETAIL  
No Scale

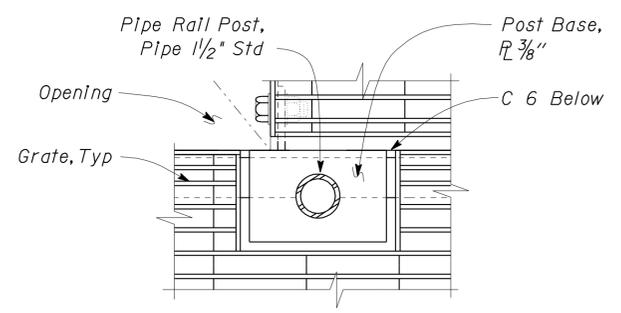
NOTE  
For Bottom of Ladder option see **3**

**1** LADDER DETAILS  
Scale 3/4" = 1'-0"

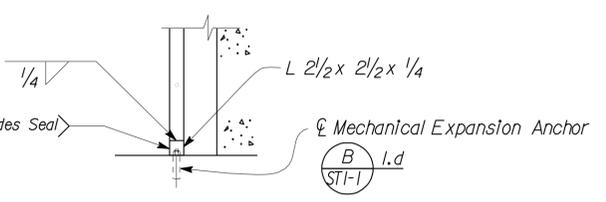


NOTE:  
Rung to be Placed 1/8" Inside of Ladder Rail

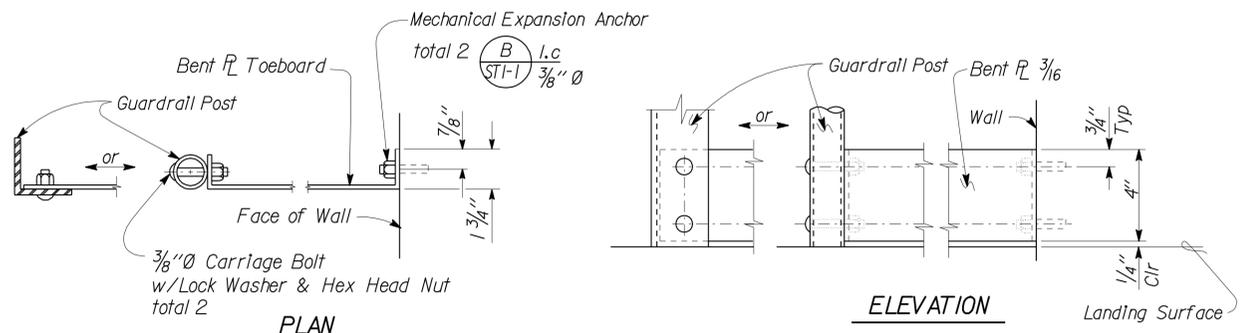
**2** RUNG DETAIL  
Scale 4" = 1'-0"



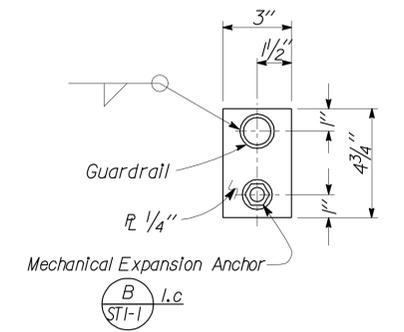
**5** POST BASE ANCHORAGE  
Scale 3" = 1'-0"



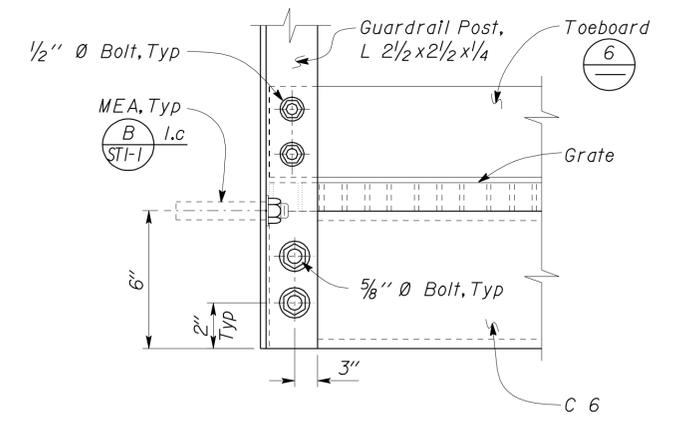
**3** BOTTOM OF LADDER OPTION  
Scale 3/4" = 1'-0"



**6** TOEBOARD DETAIL  
Scale 1/4" = 1"



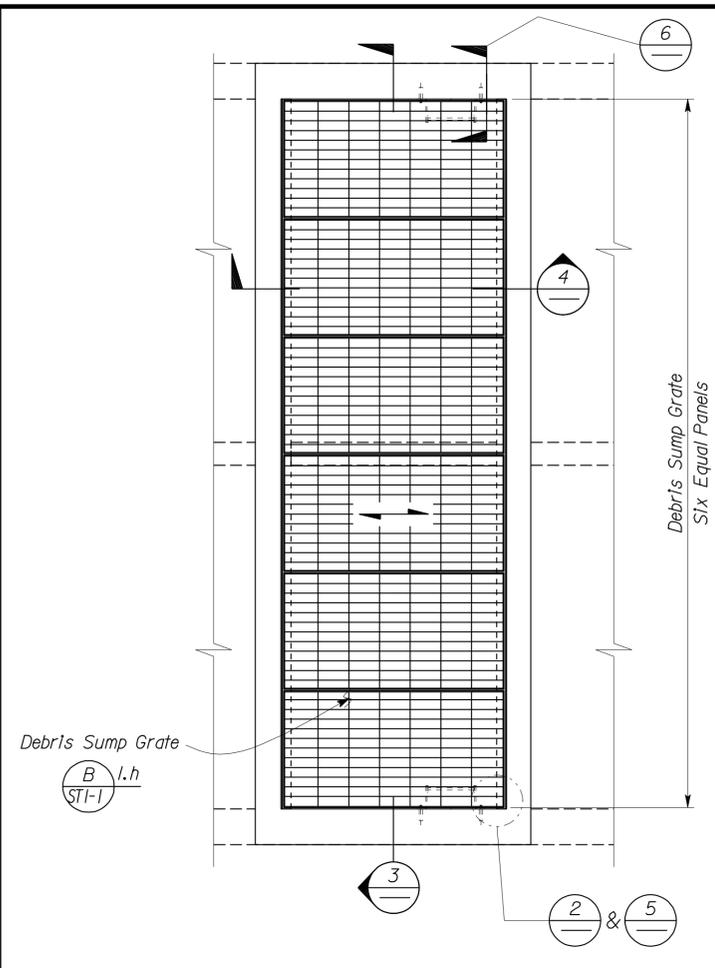
**7** RAIL TO WALL ANCHORAGE  
Scale 3" = 1'-0"



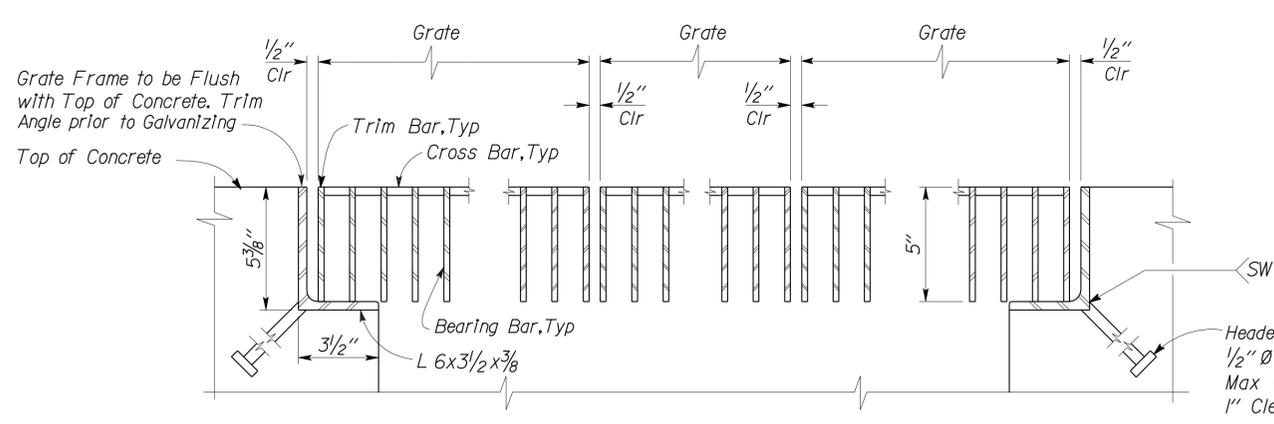
**8** GUARDRAIL POST CONNECTION  
Scale 3" = 1'-0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET	
DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat			29-0115W		EAST STOCKTON UP PUMPING PLANT	ST1-16
QUANTITIES	BY	CHECKED			POST MILE		LADDER AND LANDING DETAILS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imper-Id Rev. 7/10			EA 3A1001	D:\User\projects\d1st_10\3A1001\st1_East_stockton_UP_MLK\Expd1fe\st1_16.dgn		02-07-11		

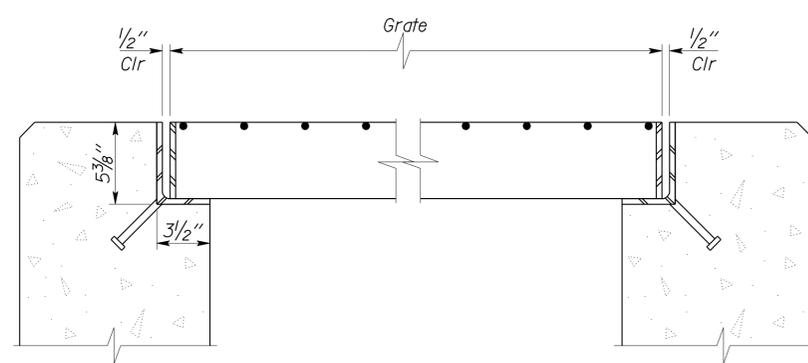
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1338	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



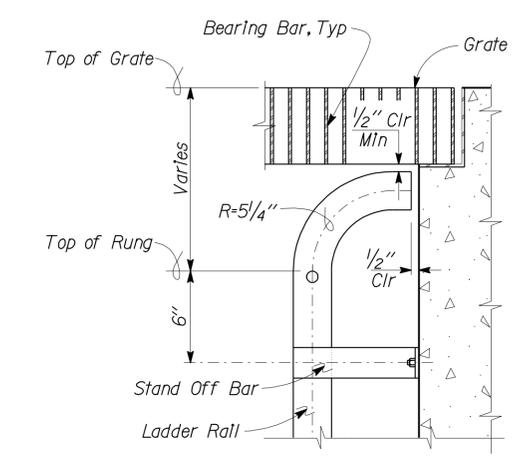
**1 DEBRIS SUMP GRATE PLAN**  
Scale 3/8" = 1'-0"



**3 GRATE AND FRAME SECTION**  
Scale 3" = 1'-0"

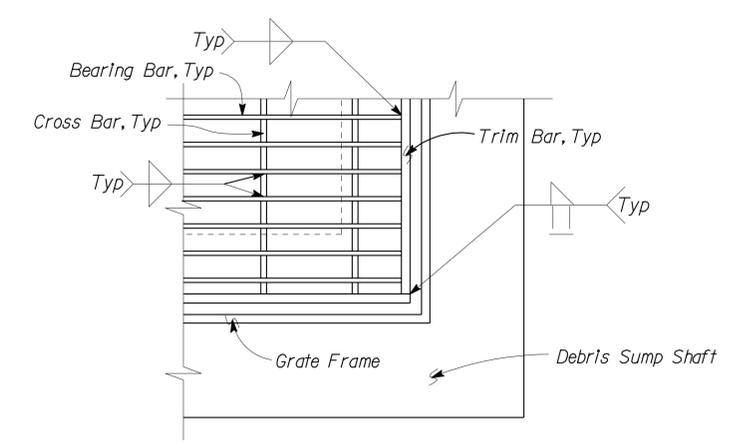


**4 GRATE AND FRAME SECTION**  
Scale 2" = 1'-0"

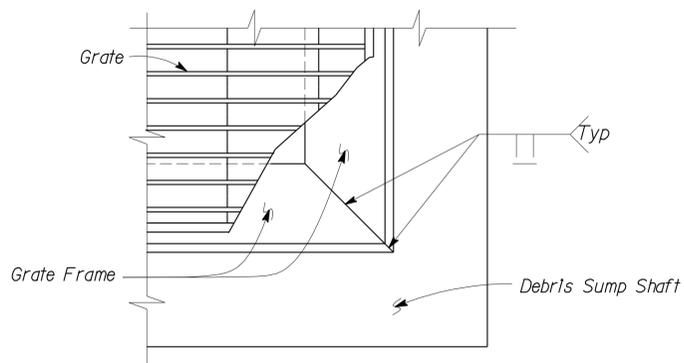


- Notes:  
 1. For Details not Shown, see [STI-16](#)  
 2. For Ladder Safety Post, see [STI-25](#)

**6 LADDER AT ACCESS GRATE**  
Scale 2" = 1'-0"



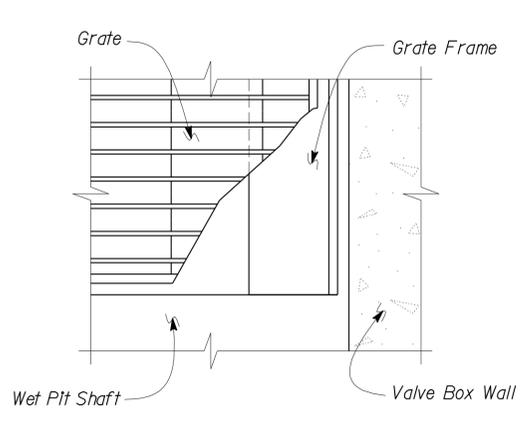
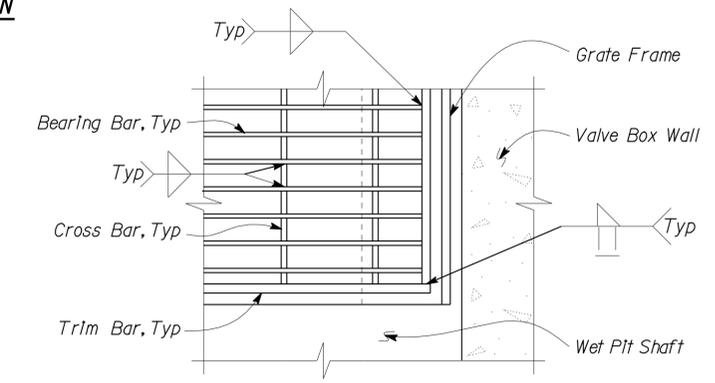
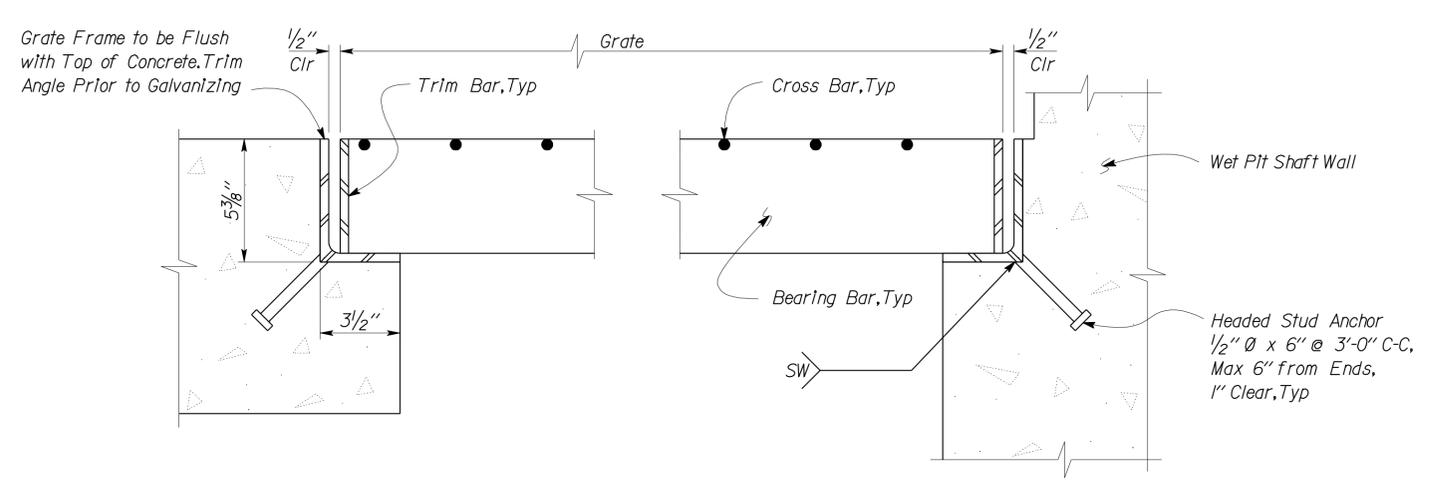
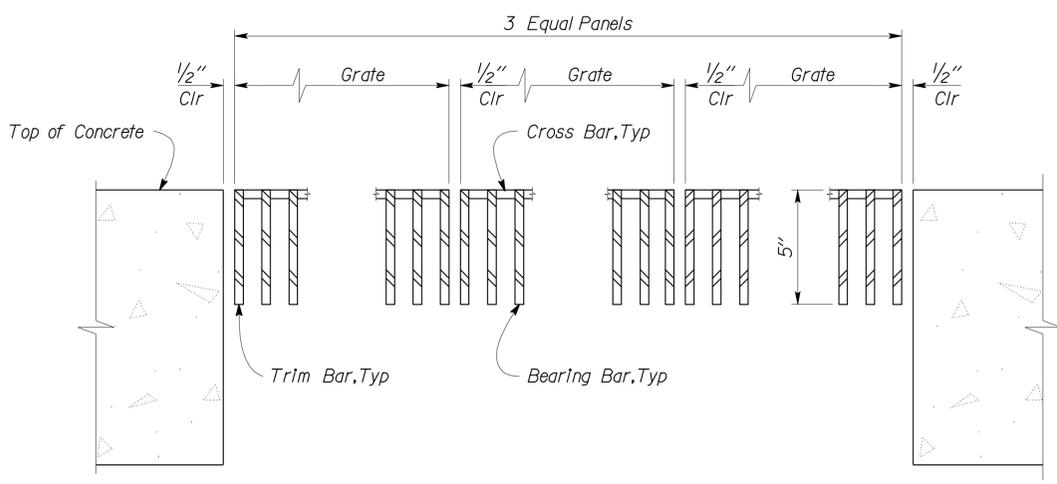
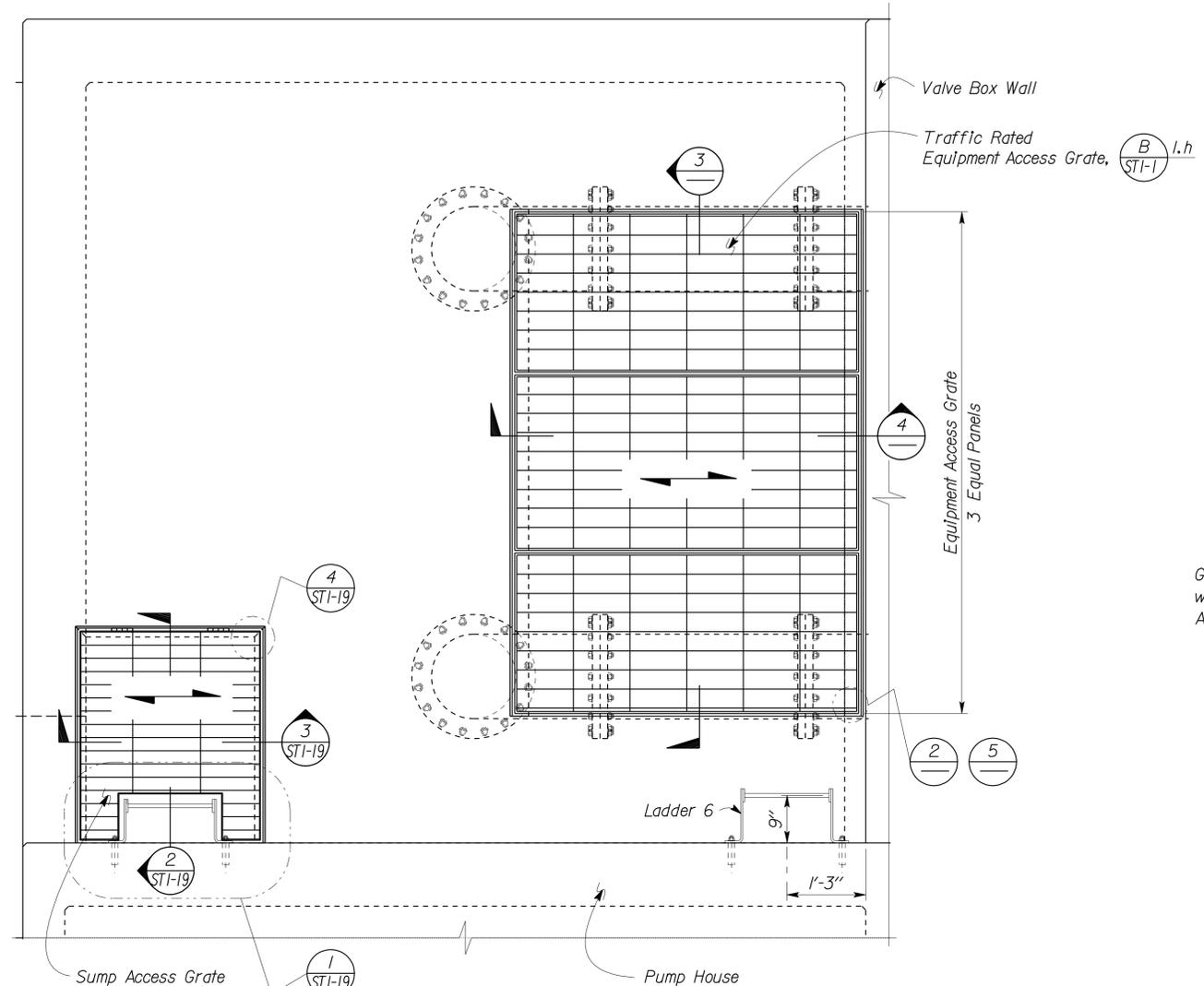
**2 GRATE DETAIL**  
Scale 3" = 1'-0"



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

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET STI-17
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	EAST STOCKTON UP PUMPING PLANT	
QUANTITIES	BY		CHECKED		UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	03-07-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	EA 3A1001		D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd1fe\st1_17.dgn		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1339	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 PLANS APPROVAL DATE 3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	BRIDGE NO.	29-0115W	EAST STOCKTON UP PUMPING PLANT	EQUIPMENT ACCESS GRATE DETAILS	SHEET OF
	DETAILS	BY	Aleksey Serin	CHECKED		Chandra Bapat			
QUANTITIES	BY		CHECKED		PROJECT NUMBER & PHASE	10000004091	REVISION DATES (PRELIMINARY STAGE ONLY)		

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

ARCHITECTURAL AND STRUCTURAL DESIGN

EAST STOCKTON UP AND RTE 26/99

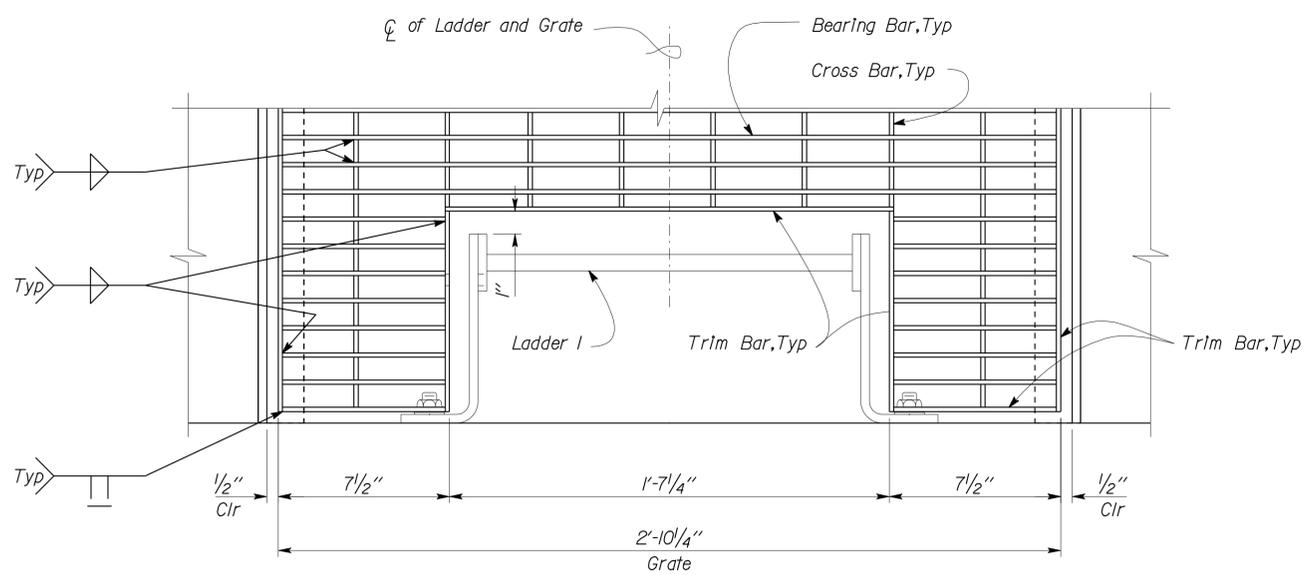
Sep PUMPING PLANTS

SHEET 18 OF 18

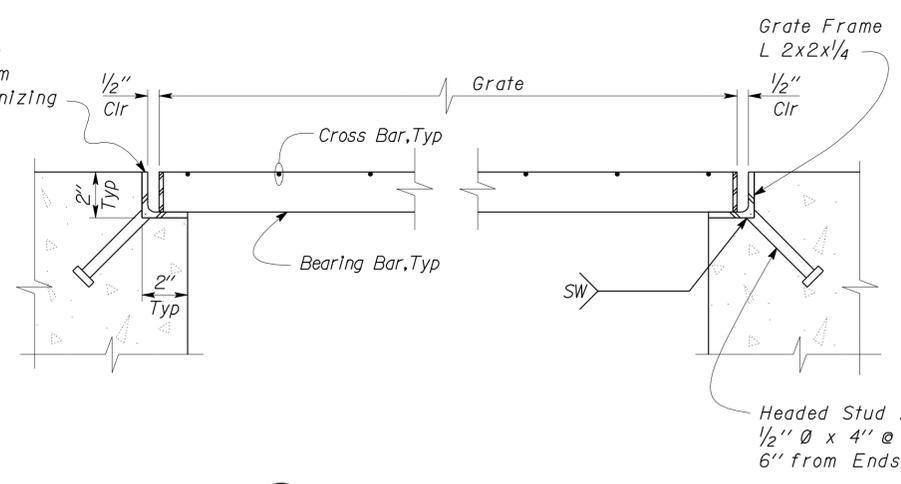
TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3581 10000004091 DISREGARD PRINTS BEARING EARLIER REVISION DATES 12-29-10

D:\User\projects\dst\_10\3A1001\st1\_East\_stockton\_UP\_MLK\Expd\ite\st1\_18.dgn

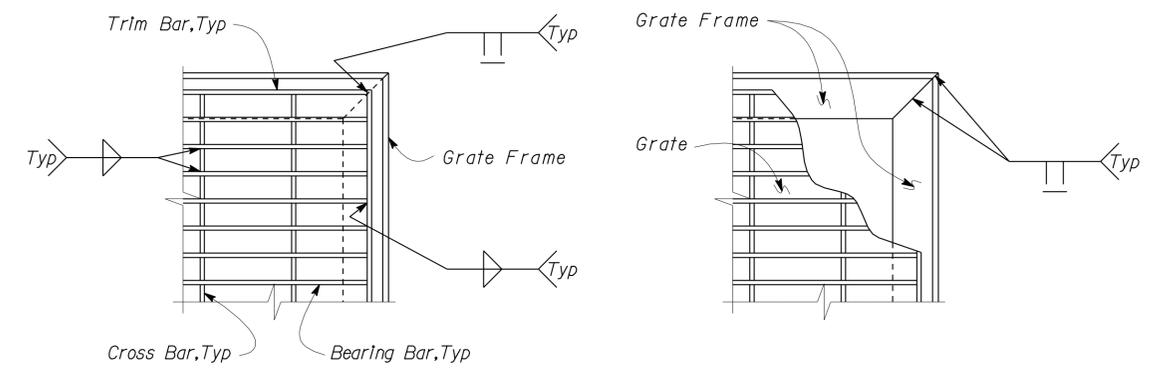
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1340	1414
			10-21-11 DATE 3-26-12 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



**1 ACCESS GRATE DETAIL**  
Scale 3" = 1' - 0"

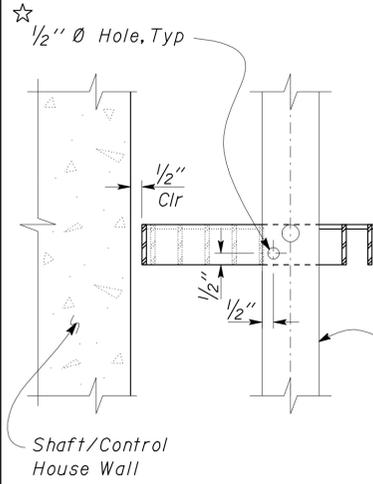


**3 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"

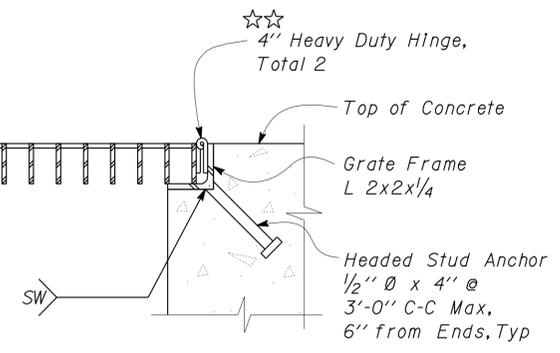


**4 GRATE AND FRAME DETAILS**  
Scale 3" = 1' - 0"

☆ Note:  
Provide 1/2" Ø Aligned Hole in Access Grate Trim Bar and Ladder Rail for Padlock

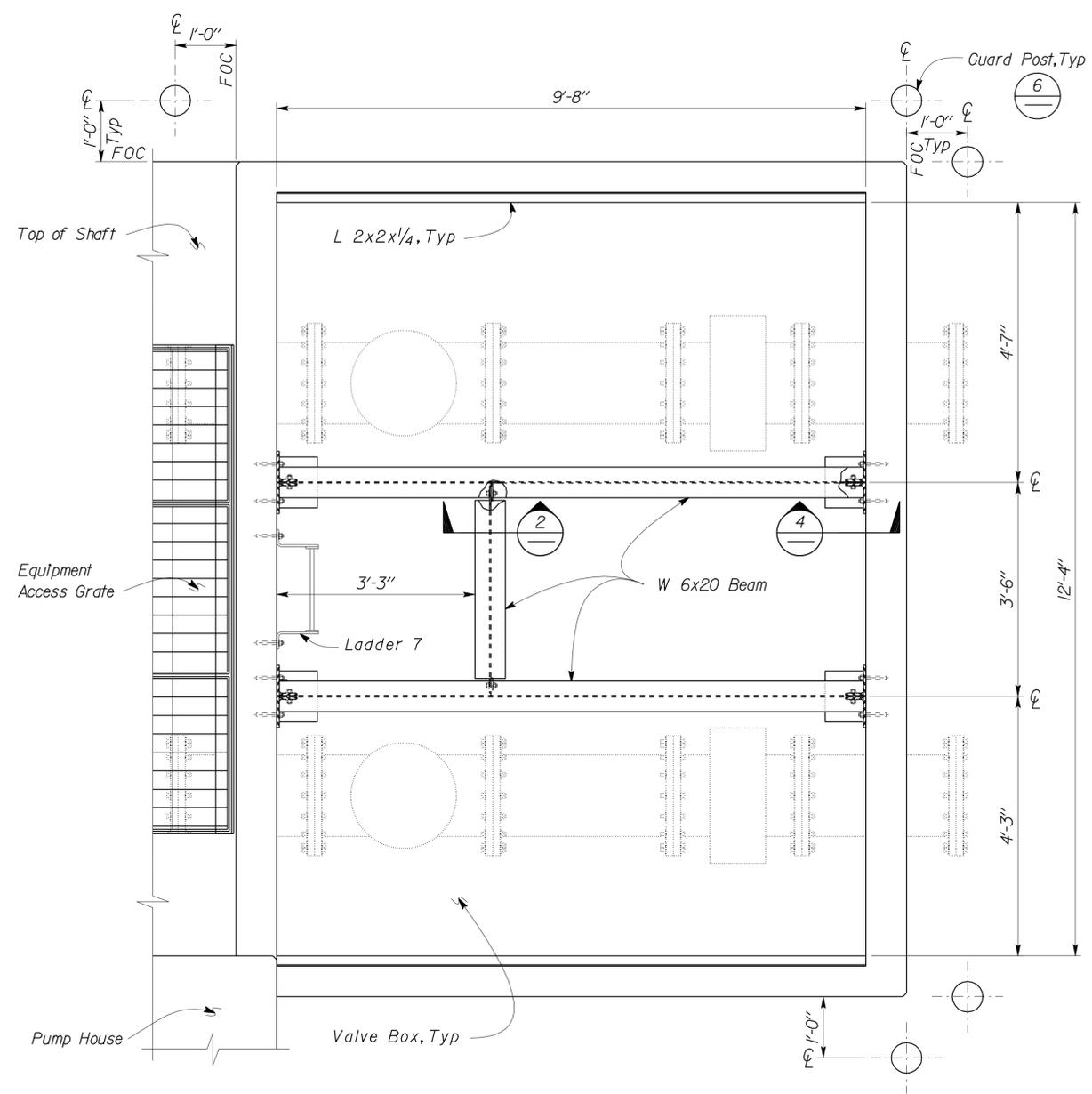


☆☆ Note:  
Fillet Weld Hinge to Grate Frame and Trim Bar on Three Sides of Hinge Leaf. Place Hinges 6" Max from Ends and Locate so that when Access Grate is Open it will lay on Slab without Placing Strain on Hinge

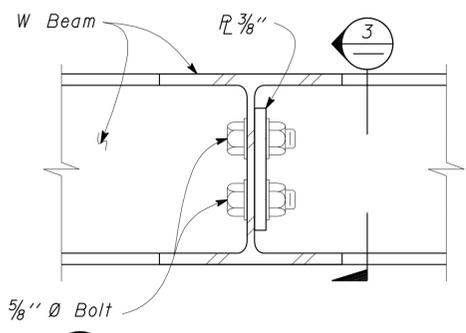


**2 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"

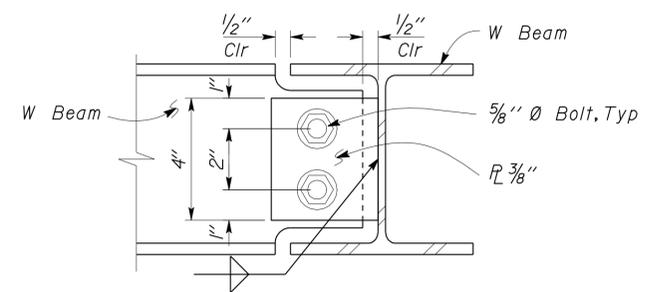
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W		EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET ST1-19	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE					ACCESS GRATE DETAILS
QUANTITIES	BY		CHECKED		UNIT	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	03-07-11	SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	PROJECT NUMBER & PHASE		10000004091	D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\fe\st1_19.dgn	



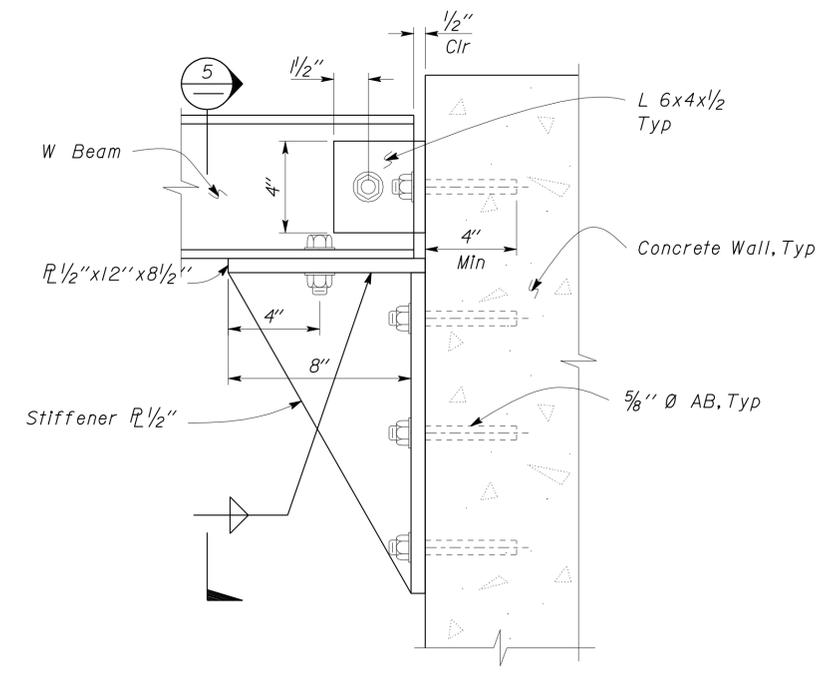
**1 GRATE SUPPORT PLAN**  
Scale 3/4" = 1' - 0"



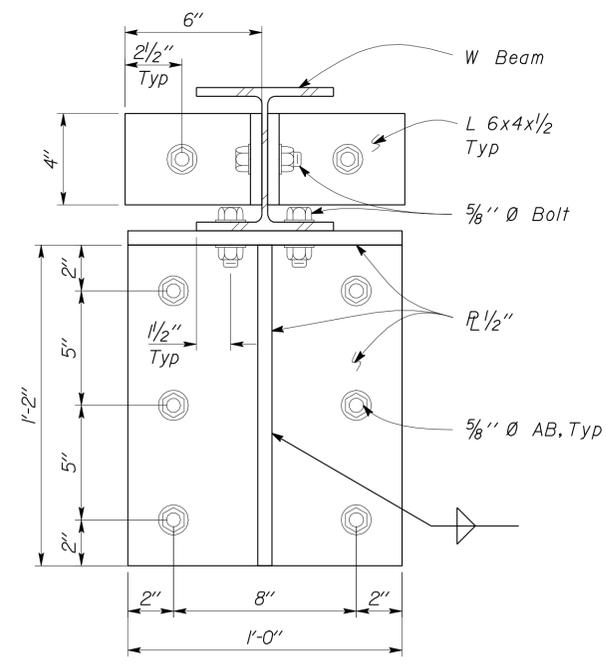
**2 BEAM TO BEAM CONNECTION**  
Scale 4" = 1' - 0"



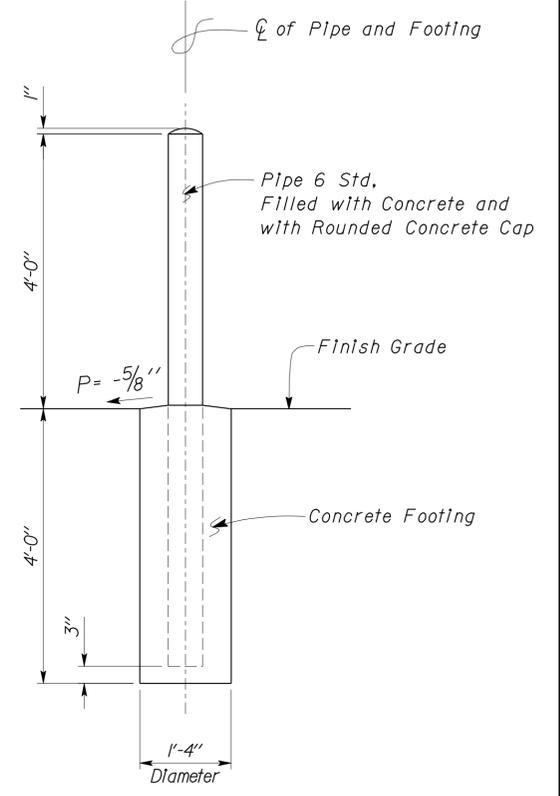
**3 SECTION**  
Scale 4" = 1' - 0"



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

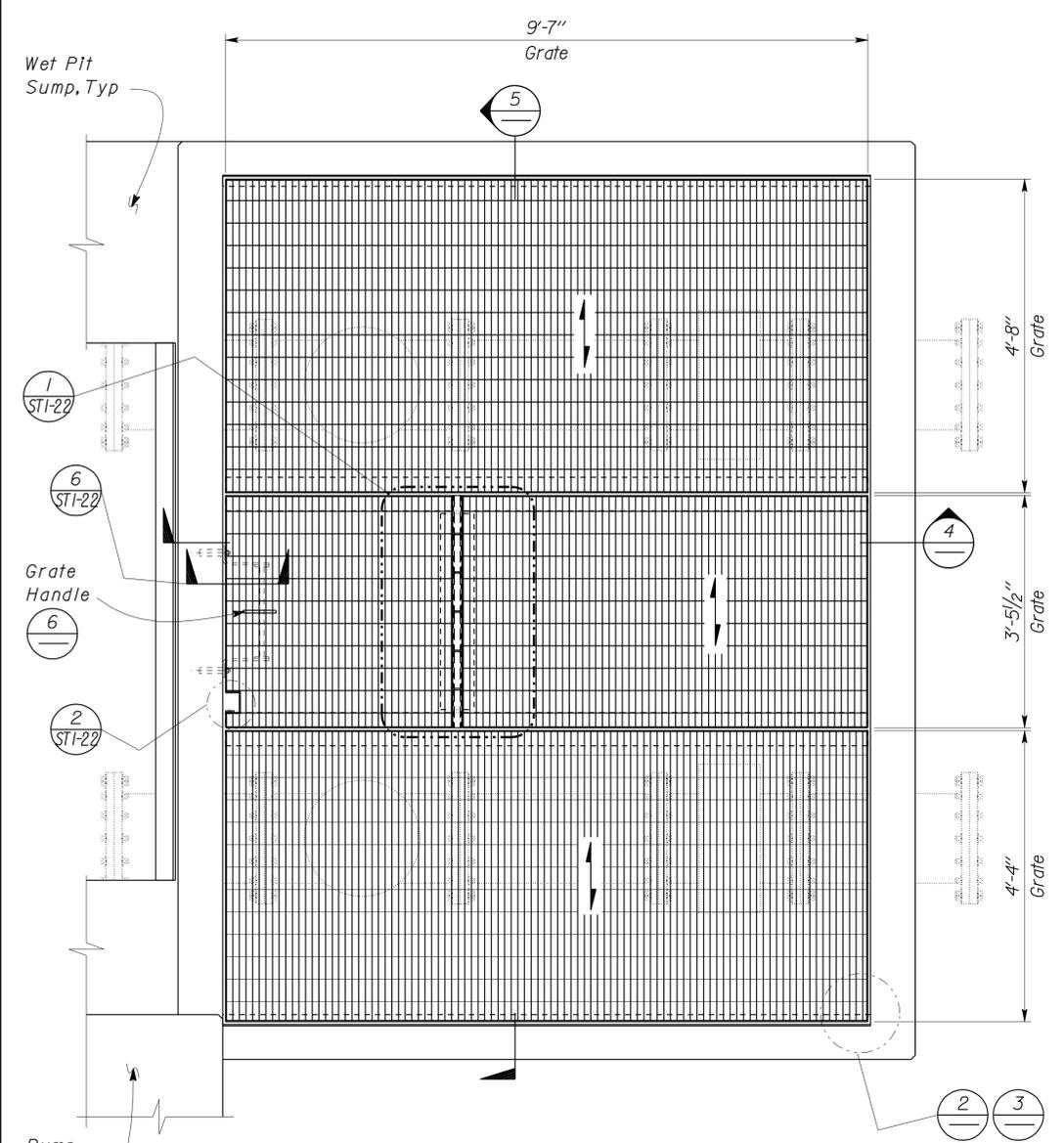


**5 SECTION**  
Scale 3" = 1' - 0"

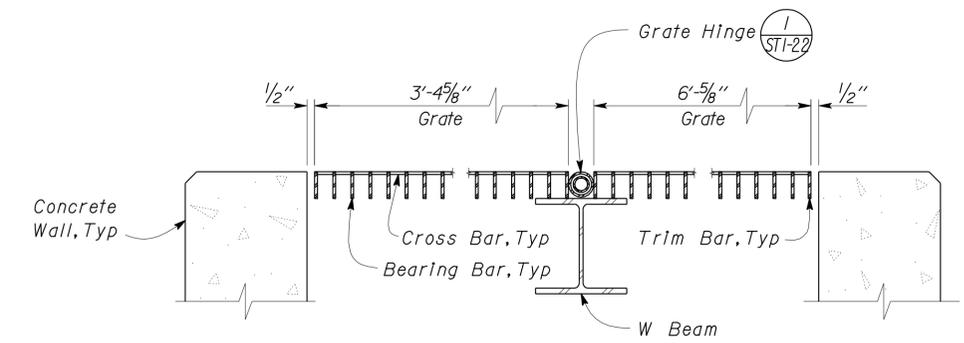


**6 PIPE GUARD POST DETAIL**  
Scale 3/4" = 1' - 0"

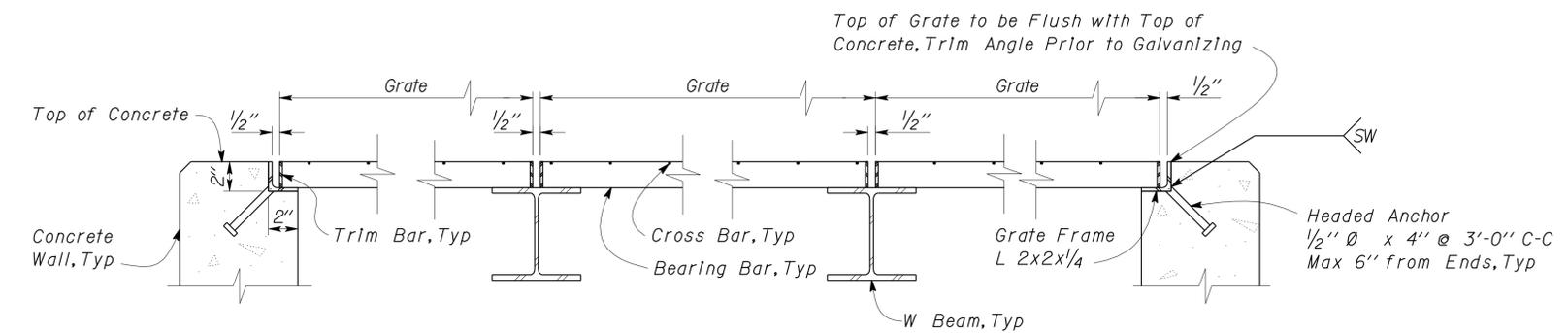
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1342	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



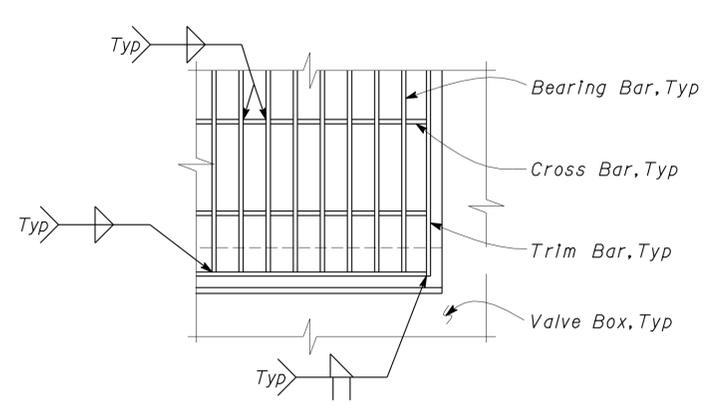
**1 VALVE BOX ACCESS GRATE PLAN**  
Scale 3/4" = 1' - 0"



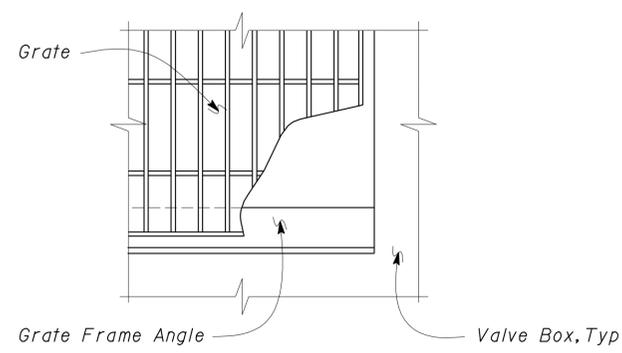
**4 GRATE AND FRAME SECTION**  
Scale 2" = 1' - 0"



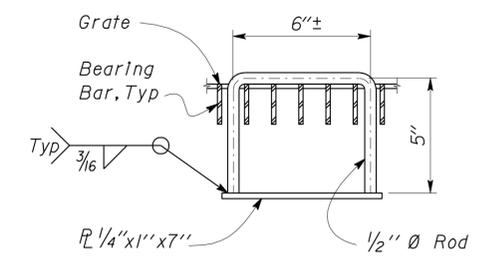
**5 GRATE AND FRAME SECTION**  
Scale 2" = 1' - 0"



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



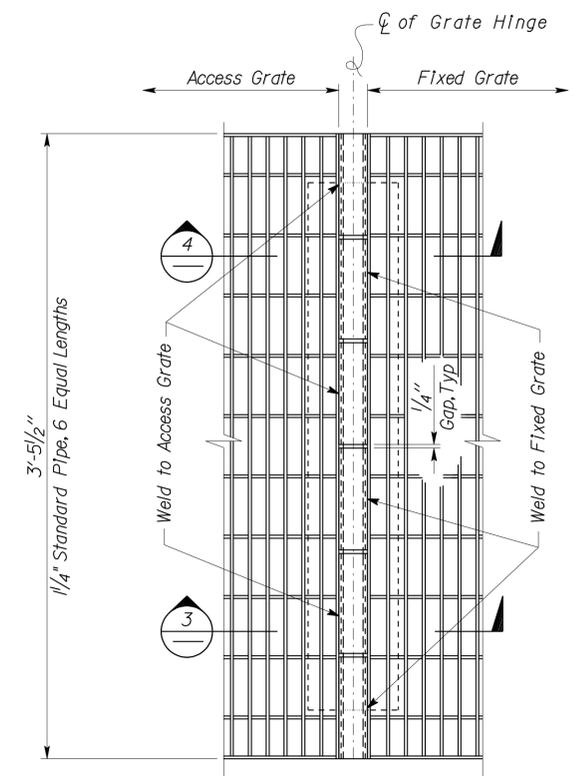
**3 GRATE FRAME DETAIL**  
Scale 3" = 1' - 0"



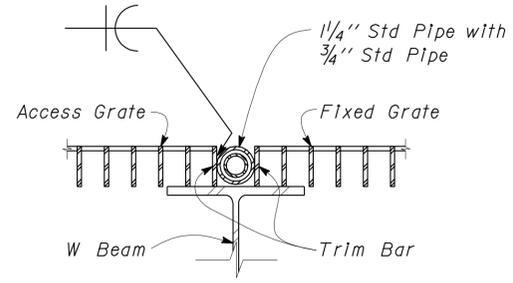
**6 HANDLE DETAIL**  
Scale 3" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b>	SHEET		
DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat			29-0115W		EAST STOCKTON UP PUMPING PLANT	<b>VALVE BOX GRATE PLAN AND DETAILS</b>	OF
QUANTITIES	BY	CHECKED			POST MILE				REVISION DATES (PRELIMINARY STAGE ONLY) 01-12-11
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE EA 3A1001	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF	17:45		

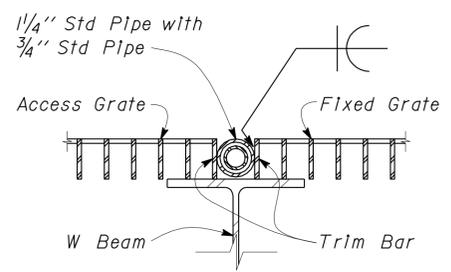
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1343	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 PLANS APPROVAL DATE 3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



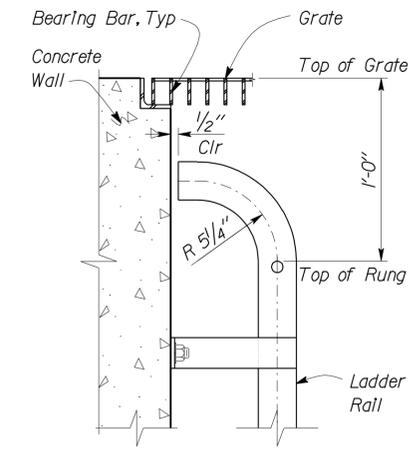
**1 PIPE HINGE DETAIL**  
Scale 2" = 1' - 0"



**3 PIPE HINGE SECTION**  
Scale 3" = 1' - 0"

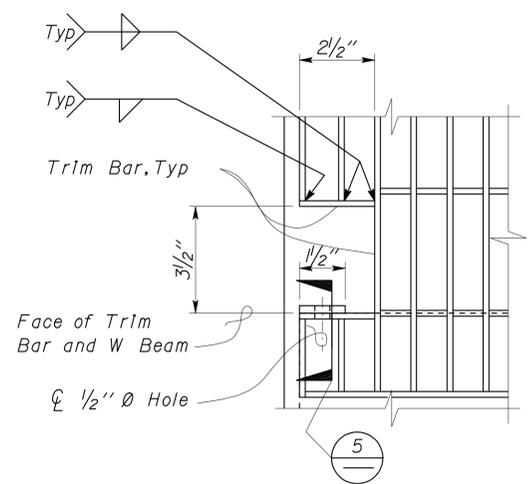


**4 PIPE HINGE SECTION**  
Scale 3" = 1' - 0"

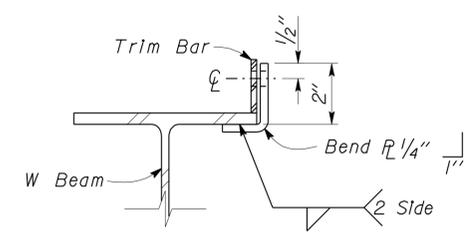


Notes:  
 1. For Details not Shown, see (1) STI-16  
 2. For Ladder Safety Post, see (1) STI-25

**6 LADDER 6 SECTION**  
Scale 2" = 1' - 0"



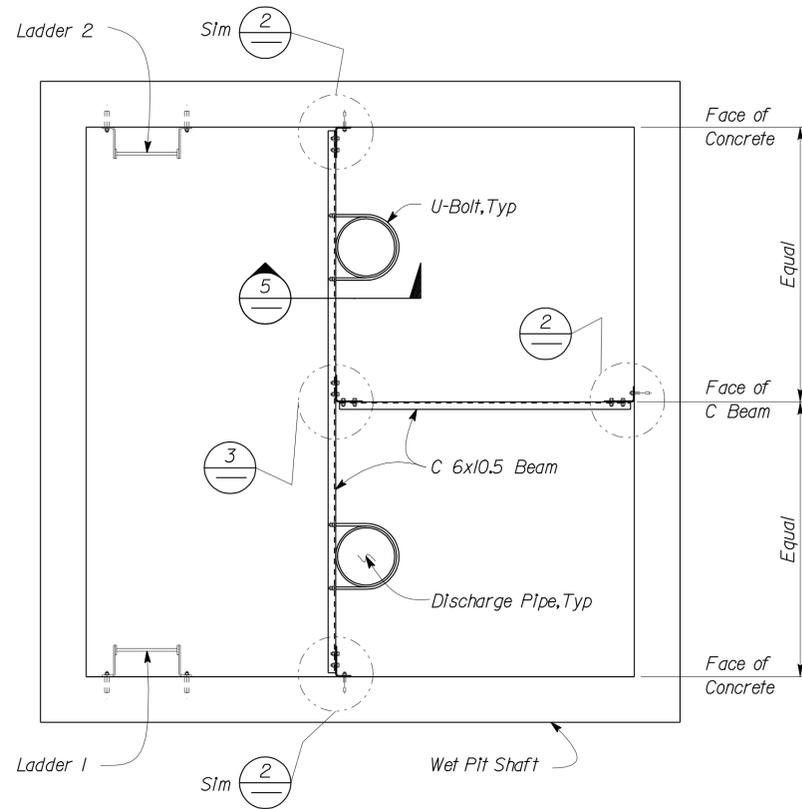
**2 PADLOCK HASP DETAIL**  
Scale 4" = 1' - 0"



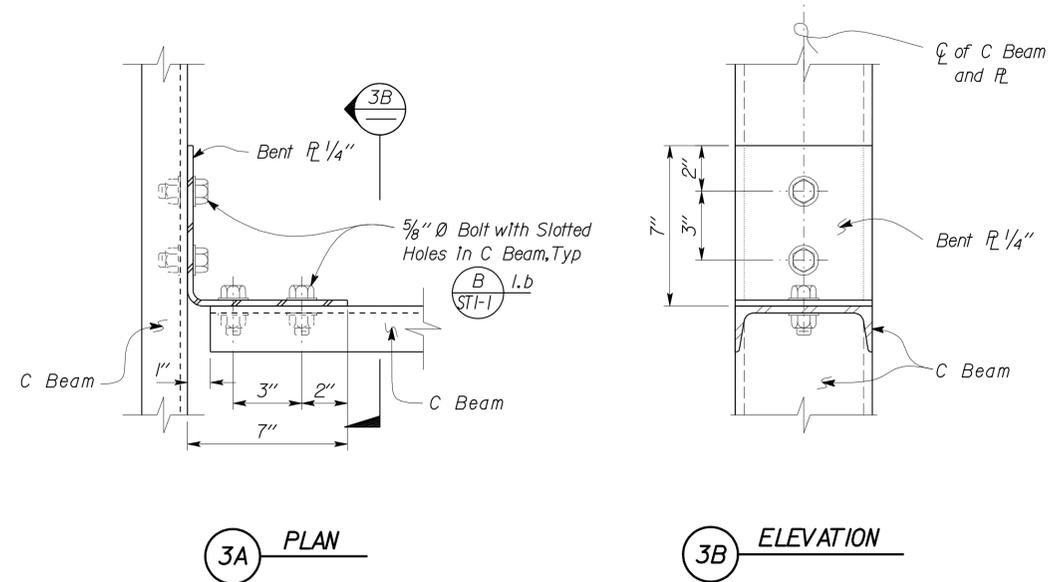
**5 PADLOCK HASP SECTION**  
Scale 4" = 1' - 0"

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W		EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET ST1-22	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE					
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091		DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-09-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 7/10 EA 3A1001 D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\ite\st1_22.dgn													

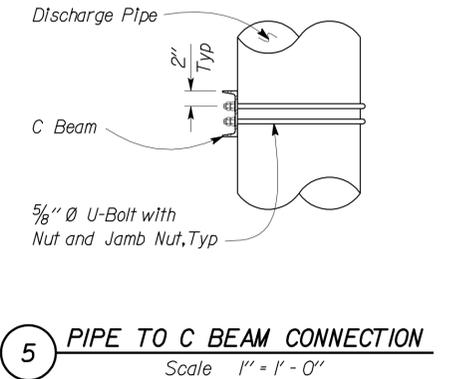
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1344	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



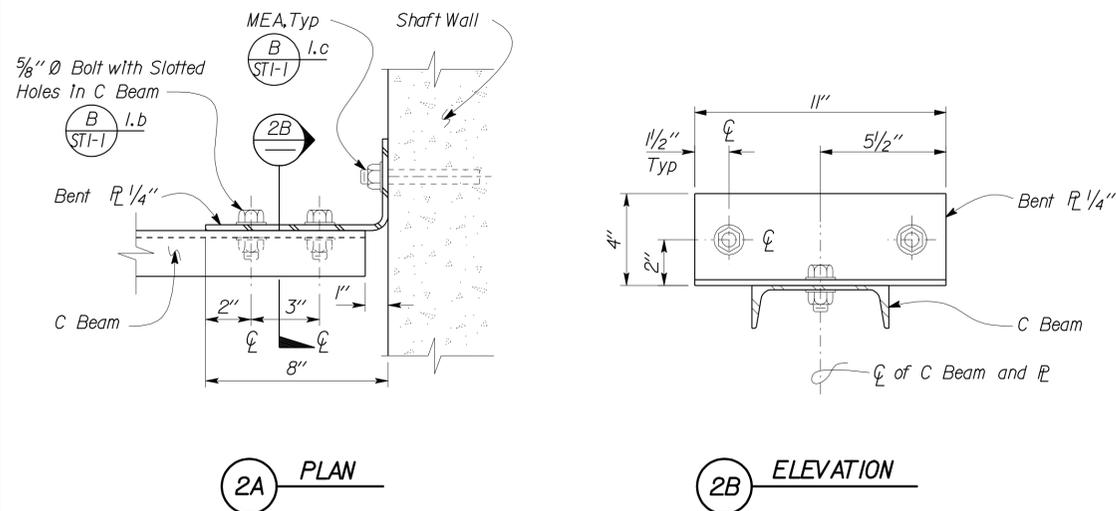
**1 DISCHARGE PIPE SUPPORT PLAN**  
Scale 1/2" = 1' - 0"



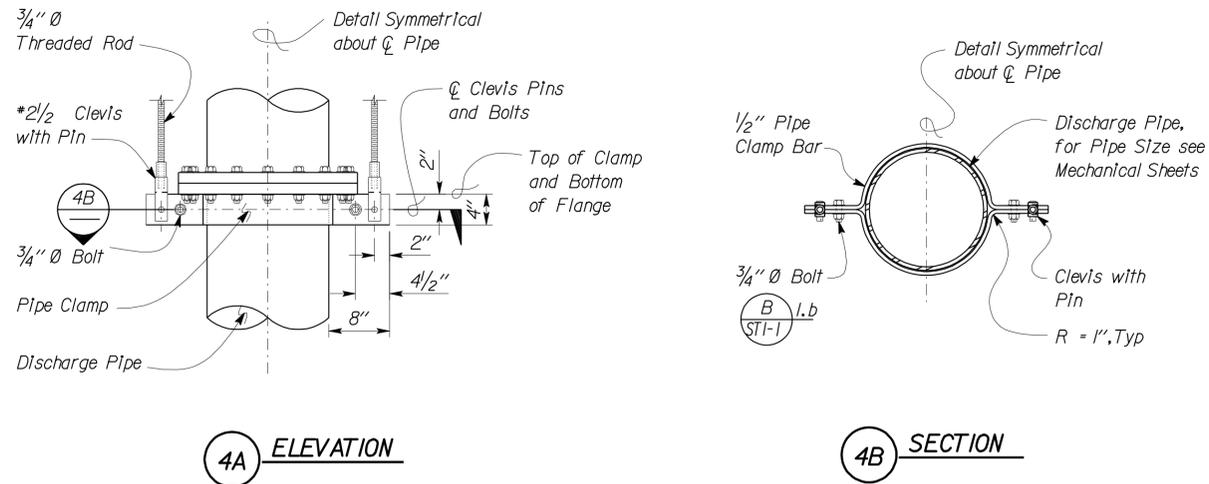
**3 C BEAM TO C BEAM CONNECTION**  
Scale 3/4" = 1' - 0"



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



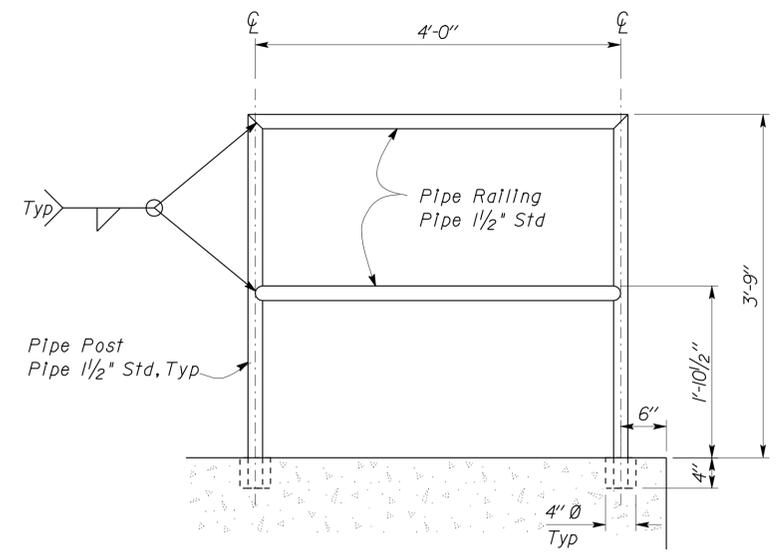
**2 C BEAM TO WALL CONNECTION**  
Scale 3/4" = 1' - 0"



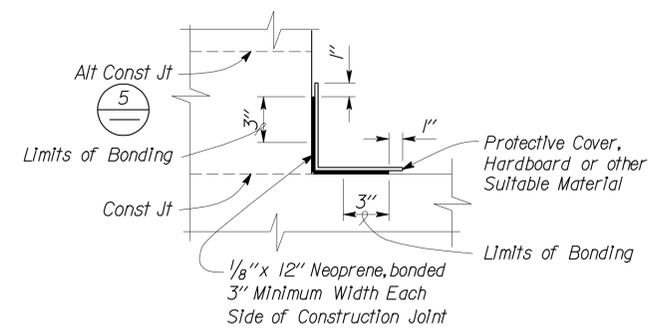
**4 PIPE CLAMP DETAIL**  
Scale 1" = 1' - 0"

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99		SHEET	
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	Sep PUMPING PLANTS		ST1-23
QUANTITIES	BY		CHECKED				POST MILE	EAST STOCKTON UP PUMPING PLANT	DISCHARGE PIPE SUPPORT DETAILS	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT PROJECT NUMBER & PHASE		3581 10000004091
TAEMWW Imperial Rev. 7/10					DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
					02-11-11					D:\User\projects\dst_10\3A1001\st1_East_stockton_UP_MLK\Expd1fe\st1_23.dgn	

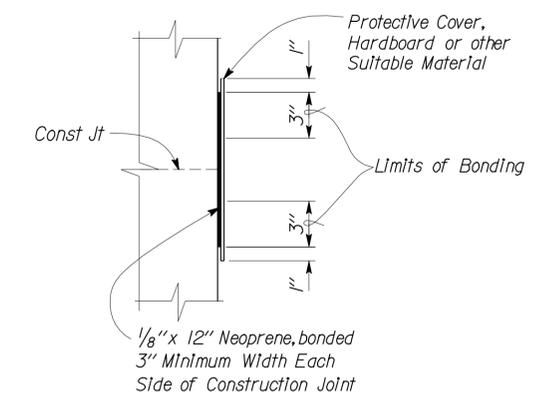
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1345	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



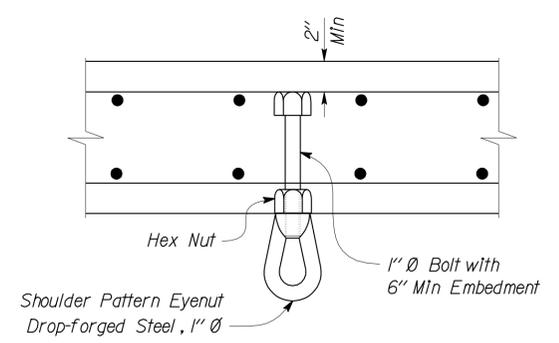
**1 LANDING 2 GUARDRAIL**  
Scale 1" = 1'-0"



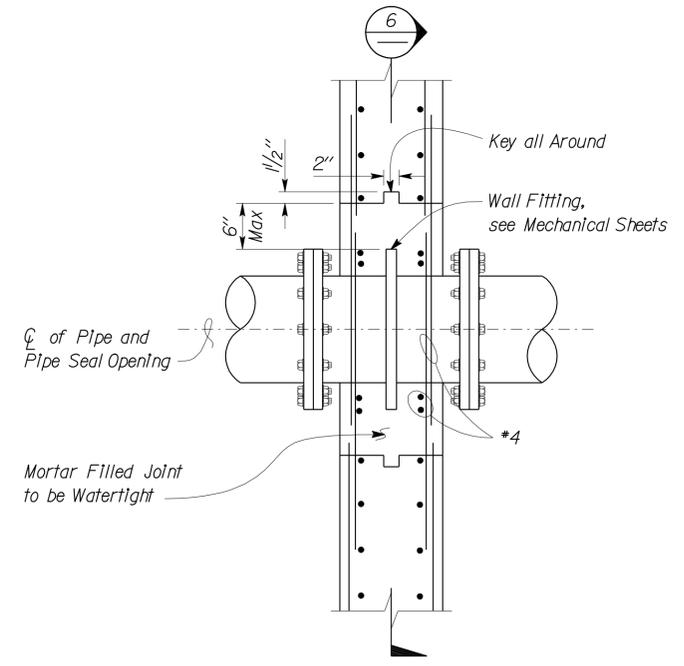
**3 WATERSTOP DETAIL**  
No Scale



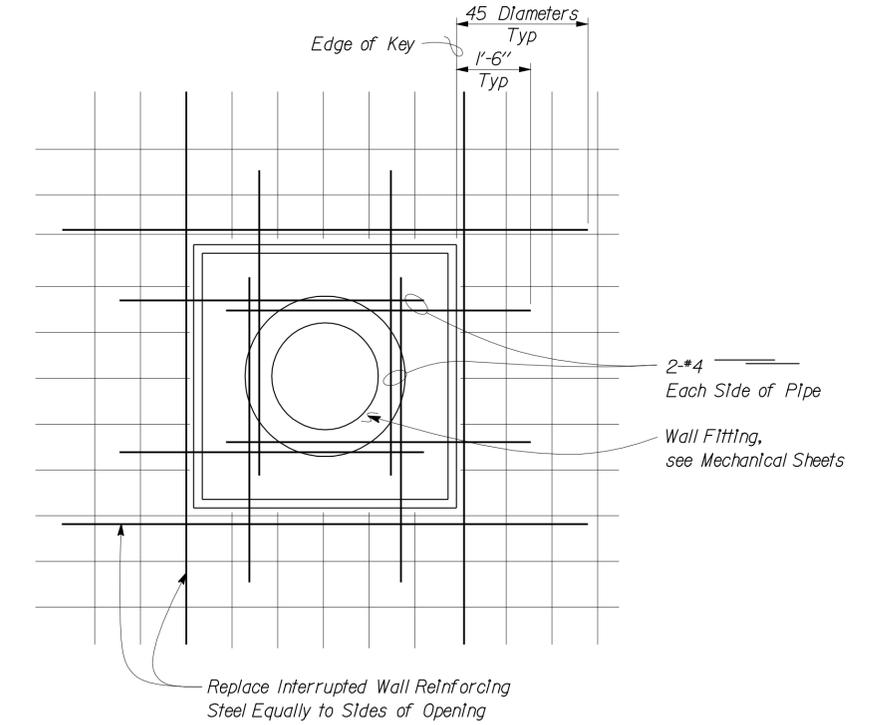
**5 WATERSTOP DETAIL**  
No Scale



**2 PULLING LOOP DETAIL**  
No Scale



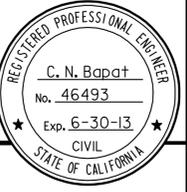
**4 WALL FITTING SEAL DETAIL**  
No Scale

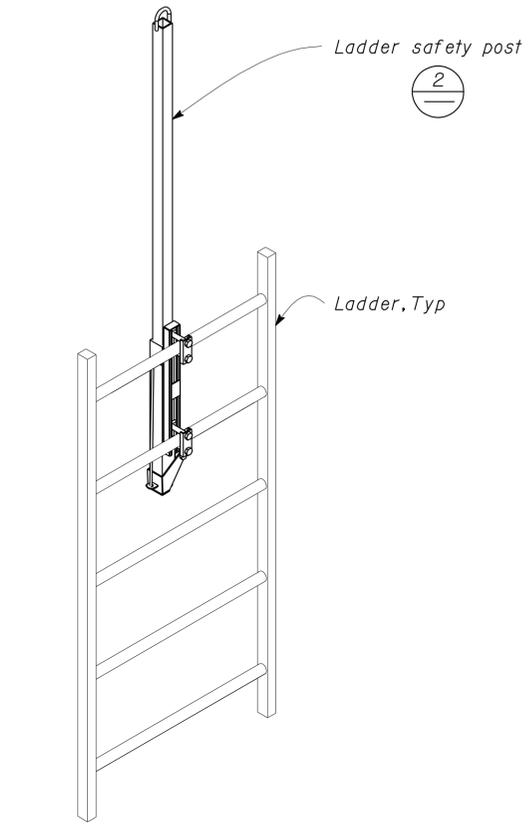


**6 PIPE SEAL DETAIL**  
No Scale

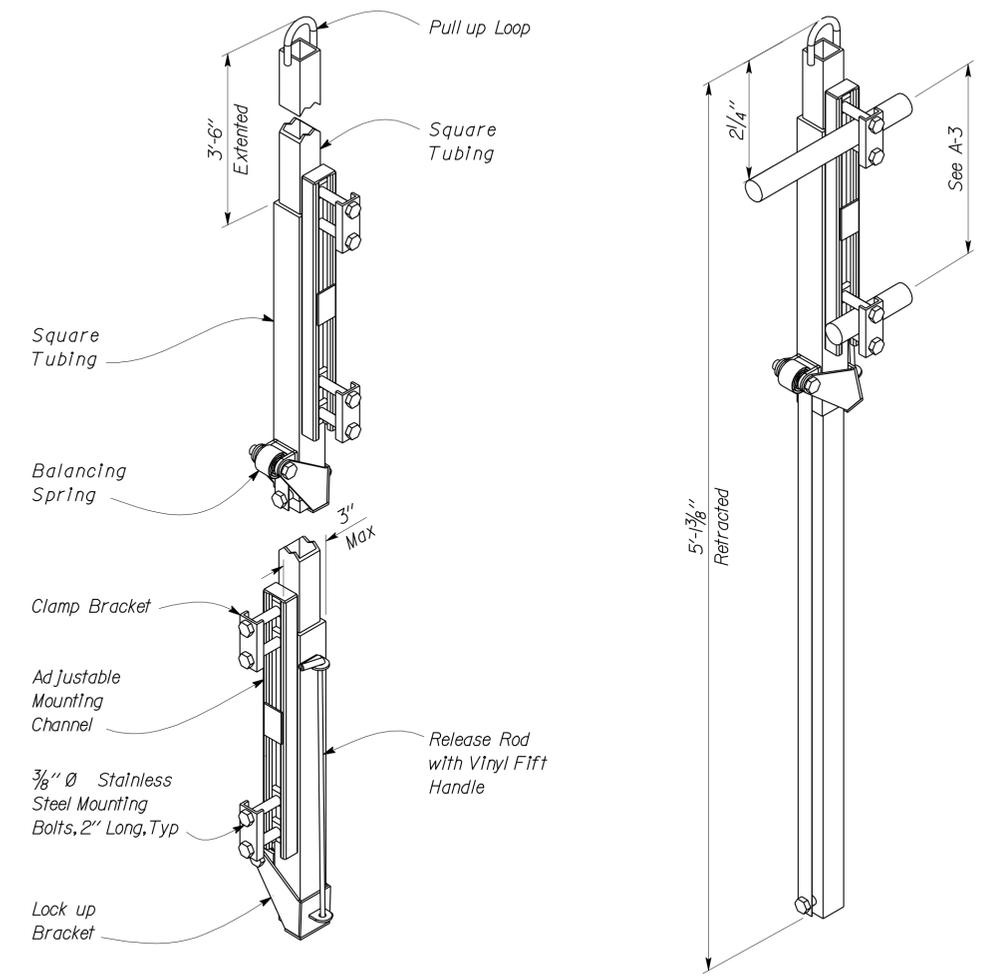
Note:  
For Pipe Location see Mechanical Sheets.

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W	EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP PUMPING PLANT	MISCELLANEOUS DETAILS	SHEET ST1-24
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE				
QUANTITIES	BY		CHECKED		UNIT	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-15-11	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3				
PROJECT NUMBER & PHASE					EA 3A1001	10000004091						

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1346	1414
<i>N. Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 CONNECTION VIEW**  
No Scale



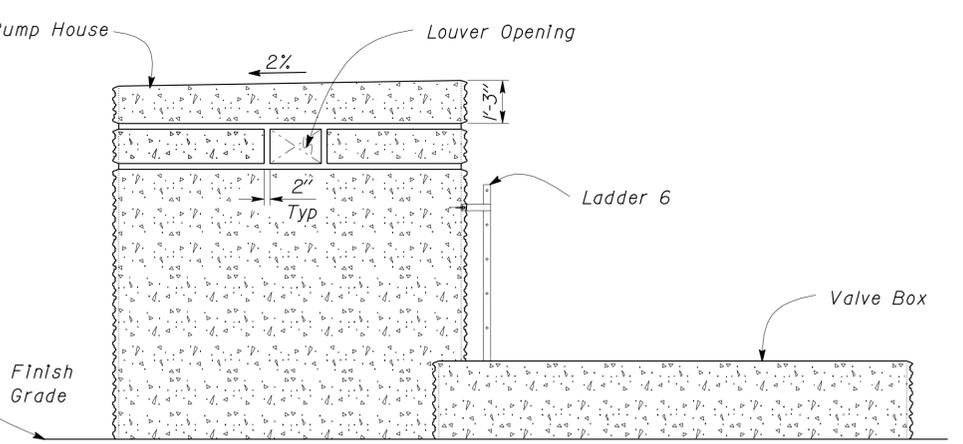
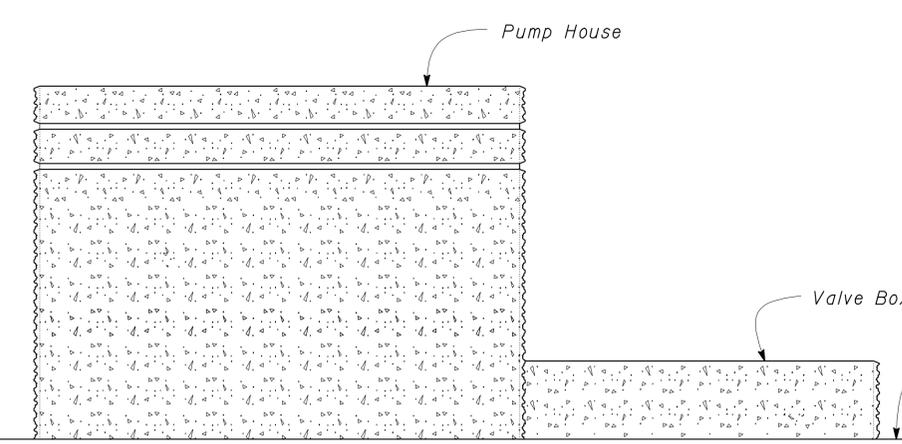
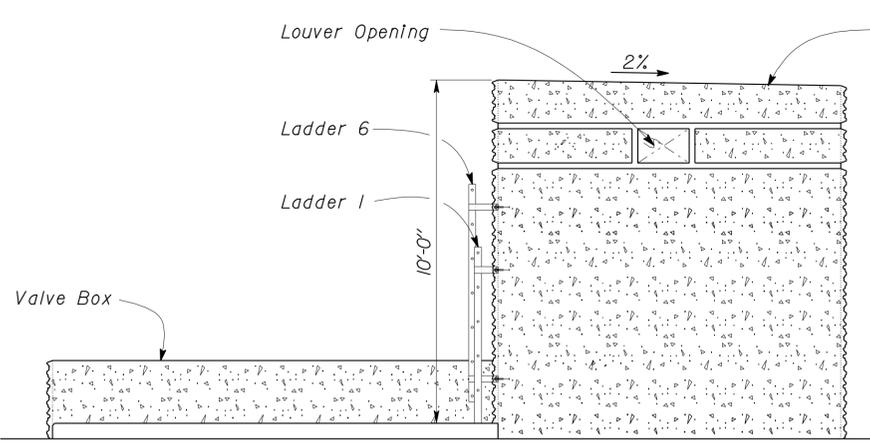
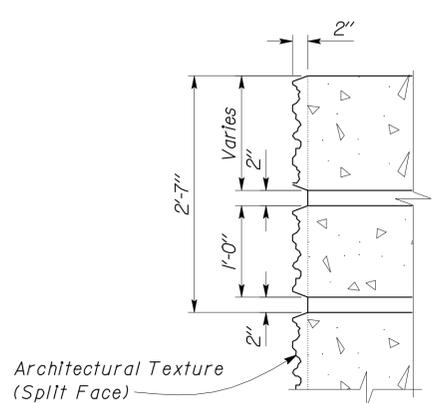
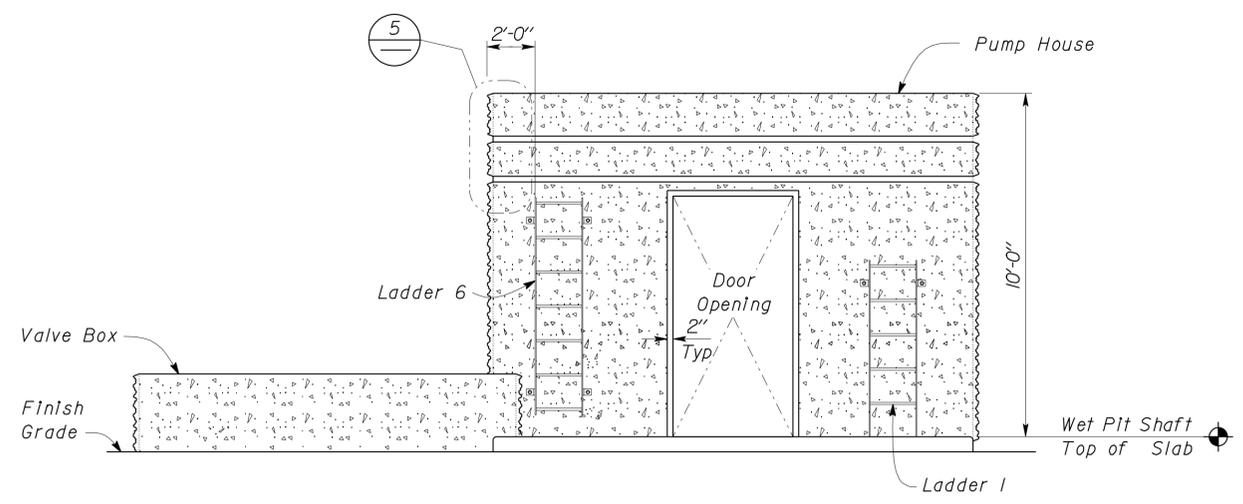
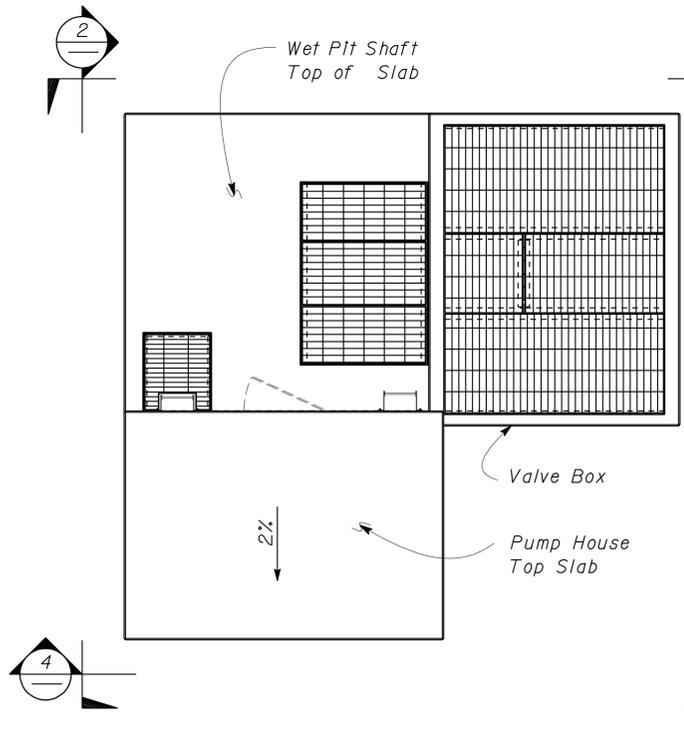
**2 DETAILS**  
No Scale

- A Notes**
- The ladder safety post shall be furnished completely assembled ready to mount on rear of ladder with clamp brackets on climbing side. Ladder must be structurally sound and securely anchored.
  - On hollow round rung ladders insert solid round bar (same length as rung) into the top two rungs to provide additional strength and prevent crushing of the rung when the ladder safety post is fastened.
  - Adjustable mounting fits ladders with rung spacing up to about 14" center to center.
  - Clamp bracket may be reversed to accommodate rung sizes of 3/4" to 1 1/4" with standard 2" bolt furnished. Larger rungs will require longer bolts.
  - The ladder safety post shall be steel and hot dipped galvanized.
  - Submit working drawings of ladder safety post for Engineer's approval.

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET		
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	29-0115W	EAST STOCKTON UP PUMPING PLANT		ST1-25	
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT	PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
					0		3581	10000004091	04-04-11			
TAEMWW Imperial Rev. 7/10					EA 3A1001		D:\User\projects\dist_10\3A1001\st1_East_stockton_UP_MLK\Expd\fe\st1_25.dgn					

28-MAR-2012 14:52

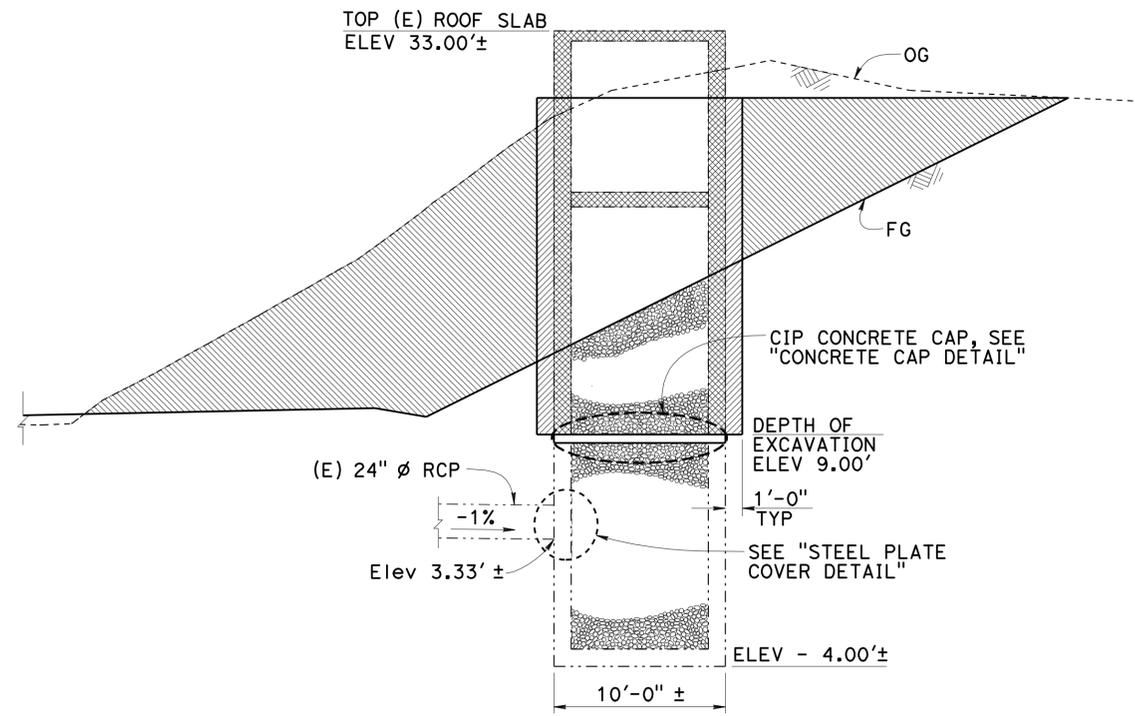
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1347	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



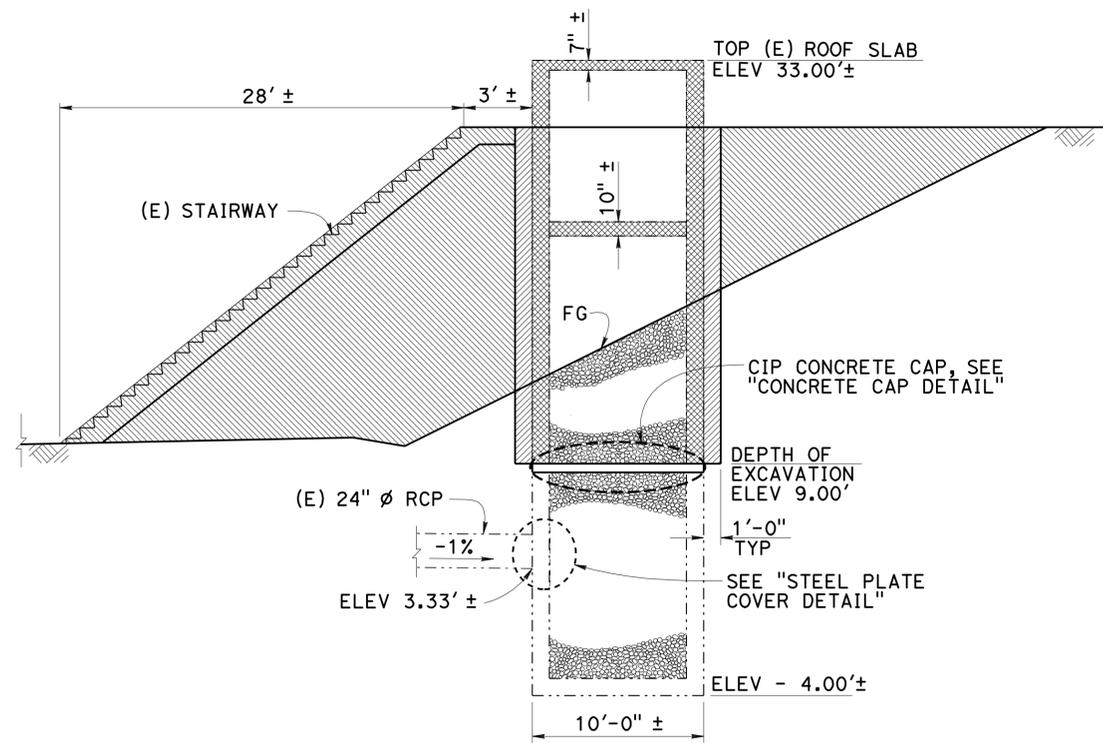
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	29-0115W		EAST STOCKTON UP PUMPING PLANT	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	PUMPING PLANT ELEVATIONS	SHEET ST1-26
	DETAILS	BY	Aleksey Serin	CHECKED			Chandra Bapat	POST MILE					
QUANTITIES	BY		CHECKED		UNIT	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES	04-08-11			SHEET OF		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	PROJECT NUMBER & PHASE		10000004091	D:\User\projects\dst_10\3A1001\st1_East_stockton_UP_MLK\Expd\1e\st1_26.dgn	

28-MAR-2012 14:53

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1348	1414
			REGISTERED CIVIL ENGINEER DATE 03-02-12 PLANS APPROVAL DATE 3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



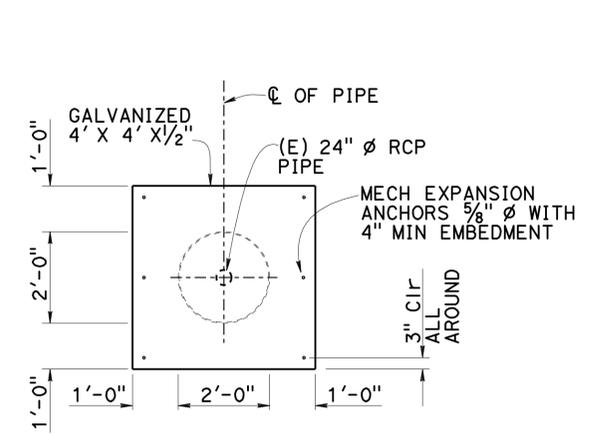
**SECTION B-B**  
3/16" = 1'-0"



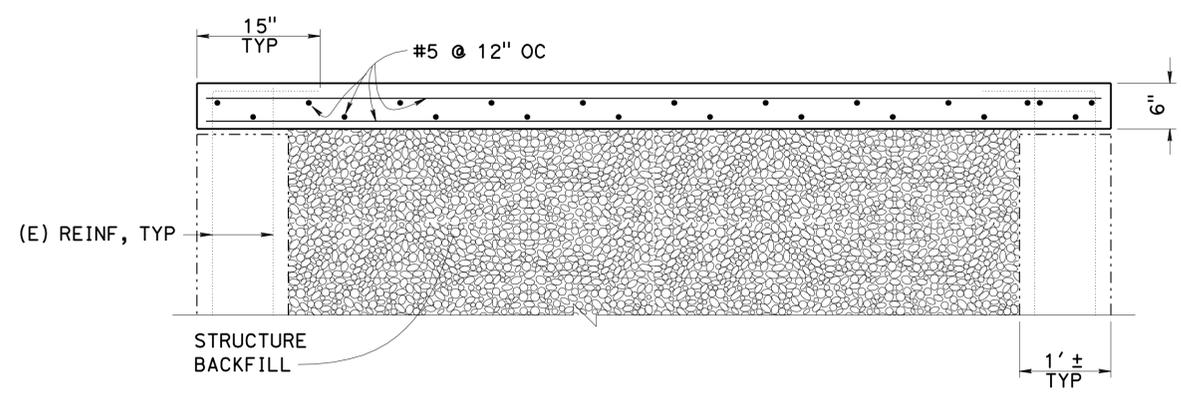
**SECTION A-A**  
3/16" = 1'-0"

NOTE:  
Remove all existing Mechanical and Electrical equipment from Pump Shaft.

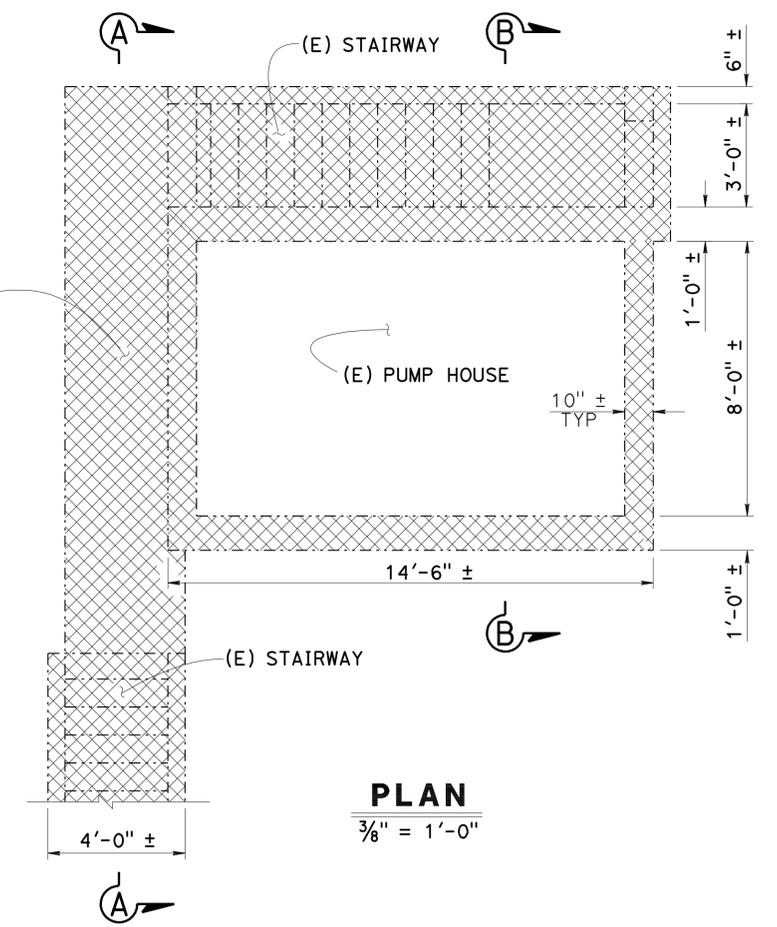
-  Indicates concrete removal
-  Indicates Structure Excavation
-  Indicates Structure Backfill
-  Indicates Roadway Excavation
-  Indicates existing structure
-  Indicates new structure



**STEEL PLATE COVER**  
1/2" = 1'-0"



**CONCRETE CAP DETAIL**  
1" = 1'-0"



**PLAN**  
3/8" = 1'-0"

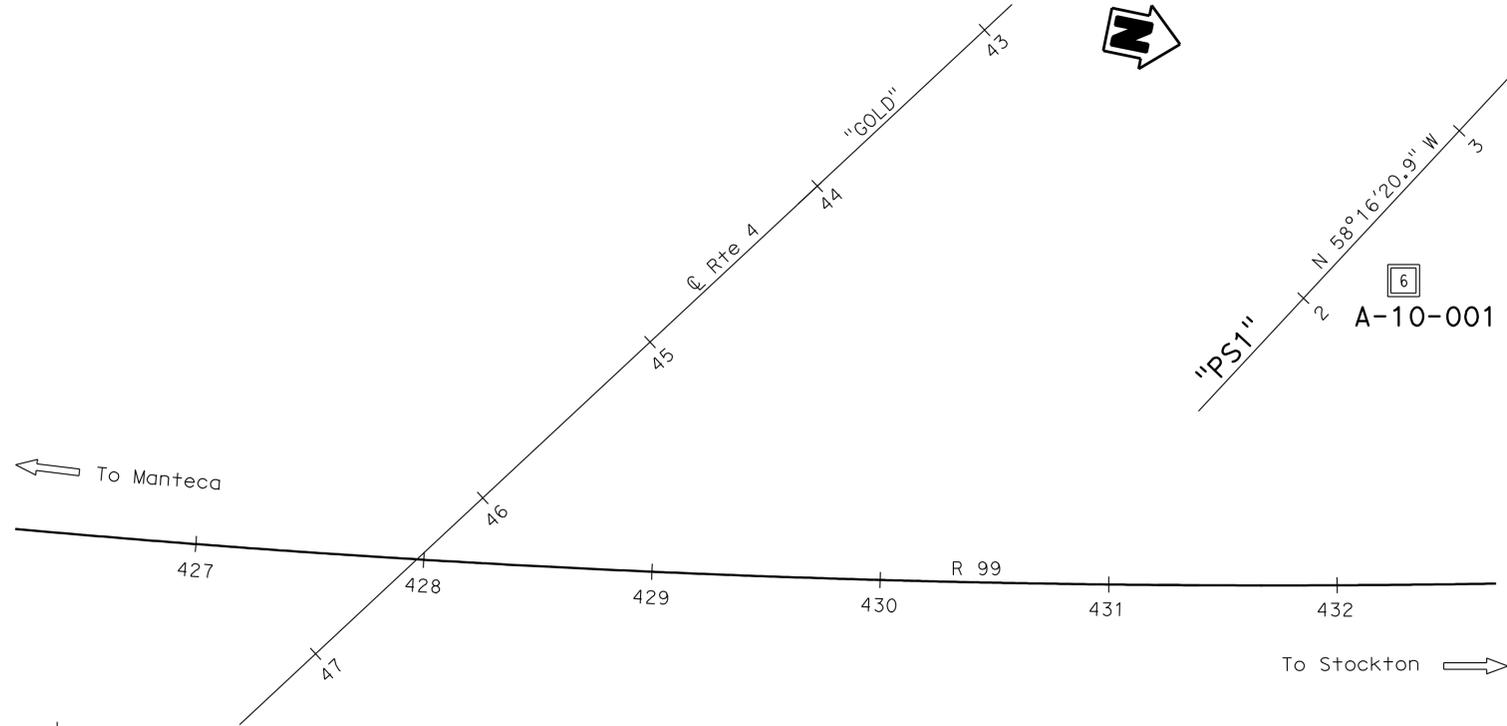
DESIGN BY Chandra Bapat CHECKED BY Thomas Tong DETAILS BY Aleksy Serin CHECKED BY Chandra Bapat QUANTITIES BY 	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET ST1-27
		POST MILE EAST STOCKTON UP PUMPING PLANT	PUMP HOUSE REMOVAL	REVISION DATES (PRELIMINARY STAGE ONLY) DISREGARD PRINTS BEARING EARLIER REVISION DATES 02-29-12
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3581 10000004091	EA 3A1001 D:\User\Projects\Dist_10\1000000409_Stockton_pp\st1_East_stockton_UP_MLK\Expedite_Resubmittal_03-02-2012\st1_27.dgn		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1349	1414

*Joseph M Kaump* 7-7-11  
 PROFESSIONAL GEOLOGIST  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

PROFESSIONAL GEOLOGIST  
 Joseph Kaump  
 No. 7837  
 Exp. 01-31-13  
 PROFESSIONAL GEOLOGIST  
 STATE OF CALIFORNIA

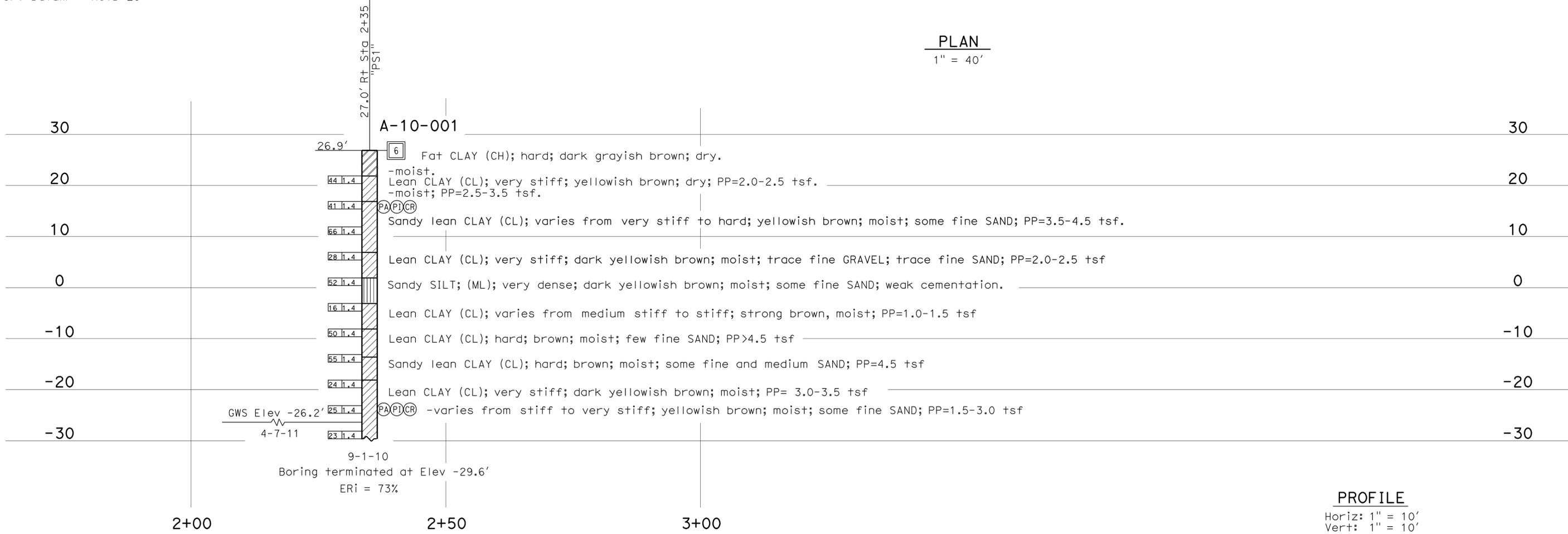
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).



**BENCH MARK**

IGP 102  
 Fnd Spike  
 Elev 37.14  
 103.21' Rt Sta 429+96.21 "R99" Line  
 N 2,167,238.21  
 E 6,349,713.11  
 Vert Datum = NGVD 29

**PLAN**  
 1" = 40'



**PROFILE**  
 Horiz: 1" = 10'  
 Vert: 1" = 10'

<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>EAST STOCKTON UP PUMPING PLANT</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 6/11		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 29-0115W		<b>LOG OF TEST BORINGS 1 OF 3</b>	
NAME: R. Bueil		CHECKED BY: L. Paredes-Mejia		FIELD INVESTIGATION BY: J. Kaump		POST MILE			
OGS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 10000004091		CONTRACT NO.: 10-3A1001	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
						07-06-11		X X	

USERNAME => st\_Log01\_of\_03.dgn  
 DATE PLOTTED => 28-MAR-2012  
 TIME PLOTTED => 14:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1350	1414

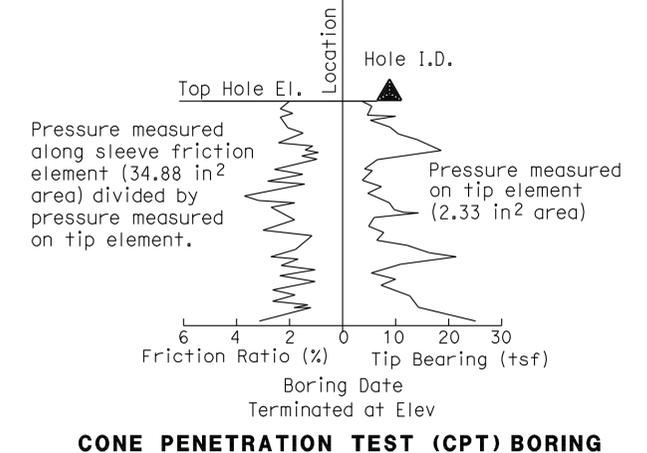
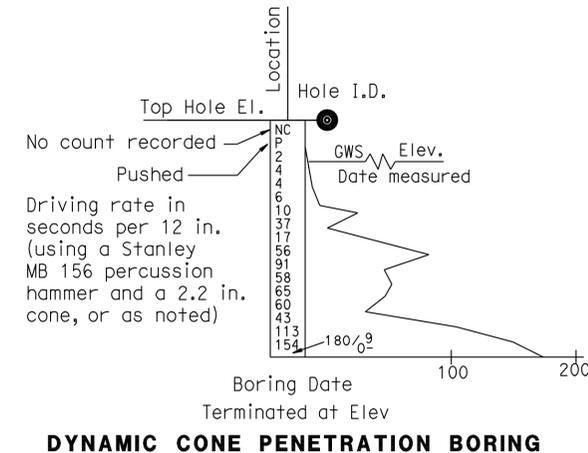
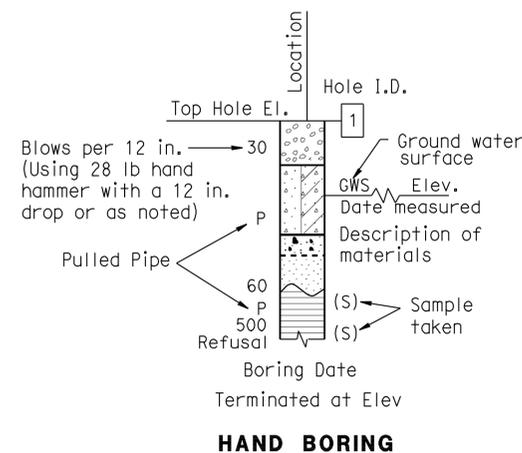
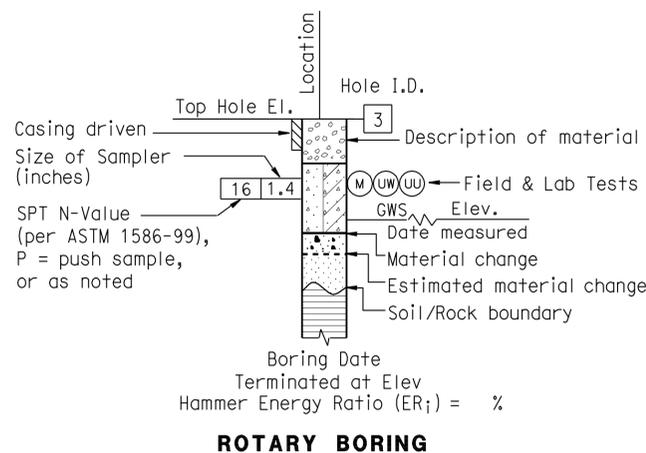
*Joseph M Kaump*  
 PROFESSIONAL GEOLOGIST 7-7-11  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

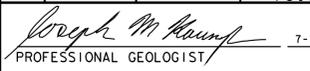
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

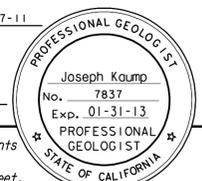
Note: Size in inches.

CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1351	1414

  
 PROFESSIONAL GEOLOGIST  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		CL		Lean CLAY
	Well-graded GRAVEL with SAND				Lean CLAY with SAND
	Poorly-graded GRAVEL		CL-ML		Lean CLAY with GRAVEL
	Poorly-graded GRAVEL with SAND				SANDY lean CLAY
	Well-graded GRAVEL with SILT		ML		SANDY lean CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND				GRAVELLY lean CLAY
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		OL		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SILTY CLAY
	Poorly-graded GRAVEL with SILT		OL		SILTY CLAY with SAND
	Poorly-graded GRAVEL with SILT and SAND				SILTY CLAY with GRAVEL
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		OL		SANDY SILTY CLAY
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SANDY SILTY CLAY with GRAVEL
	SILTY GRAVEL		CH		GRAVELLY SILTY CLAY
	SILTY GRAVEL with SAND				GRAVELLY SILTY CLAY with SAND
	CLAYEY GRAVEL		MH		ORGANIC lean CLAY
	CLAYEY GRAVEL with SAND				ORGANIC lean CLAY with SAND
	SILTY, CLAYEY GRAVEL		OH		ORGANIC lean CLAY with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND				SANDY ORGANIC lean CLAY
	Well-graded SAND		OH		GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with GRAVEL				GRAVELLY ORGANIC lean CLAY with SAND
	Poorly-graded SAND		OH		ORGANIC SILT
	Poorly-graded SAND with GRAVEL				ORGANIC SILT with SAND
	Well-graded SAND with SILT		OH		ORGANIC SILT with GRAVEL
	Well-graded SAND with SILT and GRAVEL				SANDY elastic SILT
	Well-graded SAND with CLAY (or SILTY CLAY)		OH		SANDY elastic SILT with GRAVEL
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				GRAVELLY elastic SILT
	Poorly-graded SAND with SILT		OH		GRAVELLY elastic SILT with SAND
	Poorly-graded SAND with SILT and GRAVEL				ORGANIC fat CLAY
	Poorly-graded SAND with CLAY (or SILTY CLAY)		OH		ORGANIC fat CLAY with SAND
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				ORGANIC fat CLAY with GRAVEL
	SILTY SAND		OH		SANDY ORGANIC fat CLAY
	SILTY SAND with GRAVEL				SANDY ORGANIC fat CLAY with GRAVEL
	CLAYEY SAND		OH		GRAVELLY ORGANIC fat CLAY
	CLAYEY SAND with GRAVEL				GRAVELLY ORGANIC fat CLAY with SAND
	SILTY, CLAYEY SAND		OL/OH		ORGANIC elastic SILT
	SILTY, CLAYEY SAND with GRAVEL				ORGANIC elastic SILT with SAND
	PEAT		OL/OH		ORGANIC elastic SILT with GRAVEL
	COBBLES				SANDY ORGANIC elastic SILT
	COBBLES and BOULDERS		OL/OH		GRAVELLY ORGANIC elastic SILT
	BOULDERS				GRAVELLY ORGANIC elastic SILT with SAND

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(UC)	Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N <sub>60</sub> (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

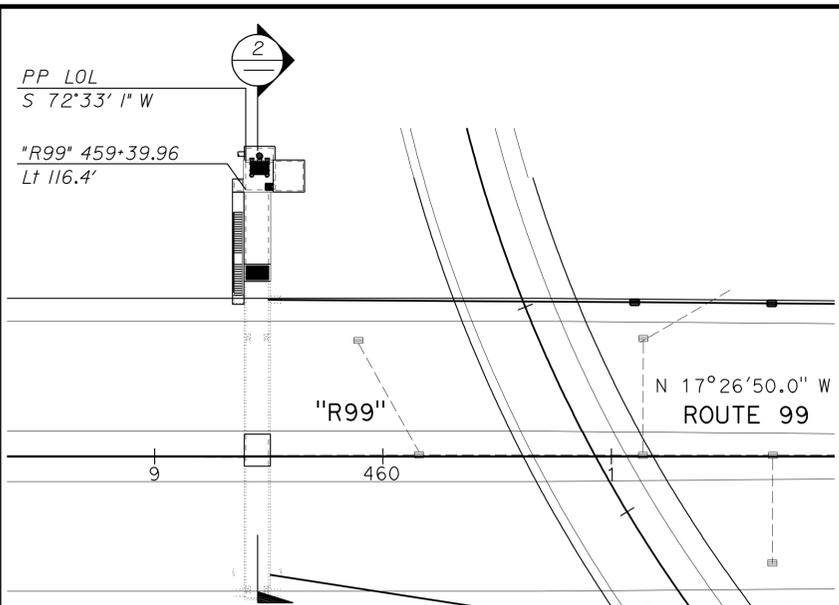
PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Fine	1/64 - 1/16
Silt and Clay	Less than 1/300	

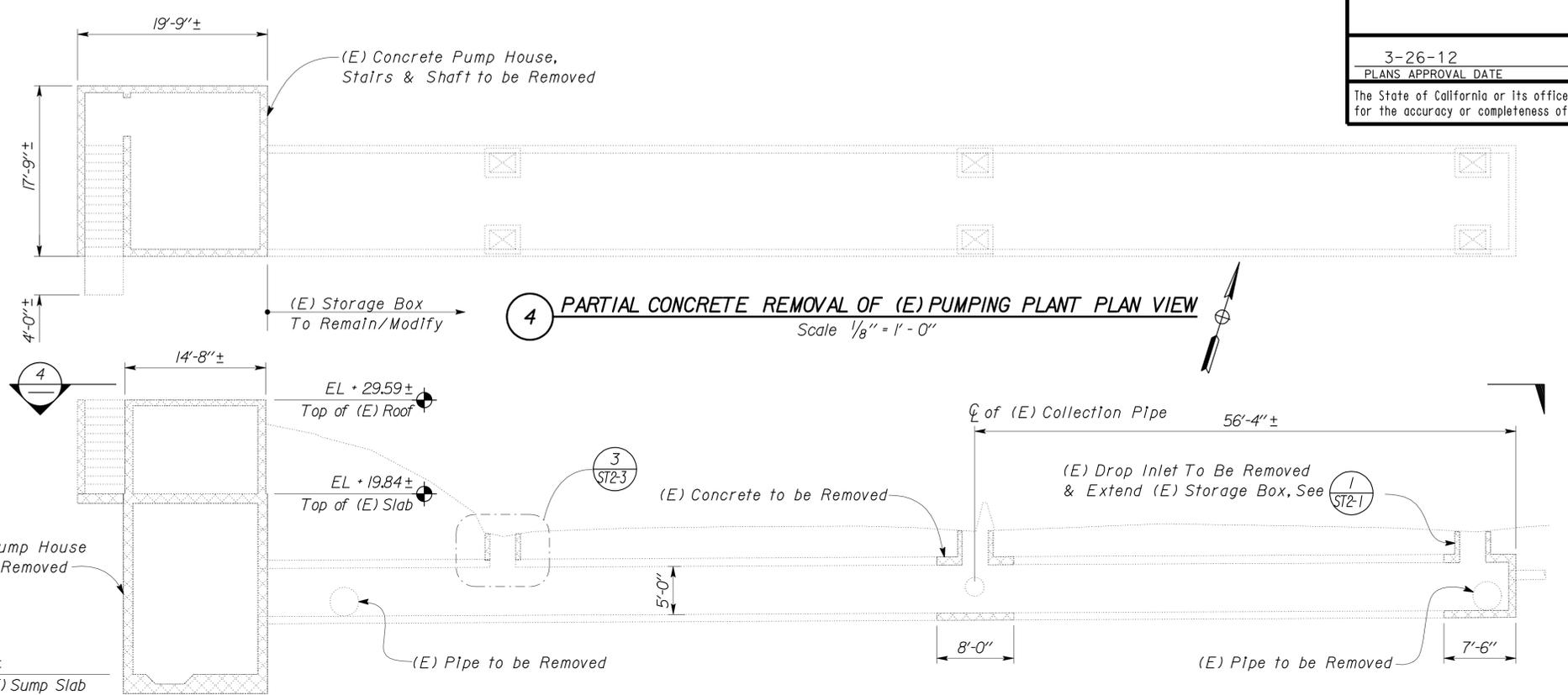
ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO.	EAST STOCKTON UP PUMPING PLANT	
				29-0115W		
	PREPARED BY: W. Tang 6/11			POST MILE	LOG OF TEST BORINGS 3 OF 3	
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3643 PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF X X

EA 3A1001 FILE => sf\_Log03\_of\_03.dgn

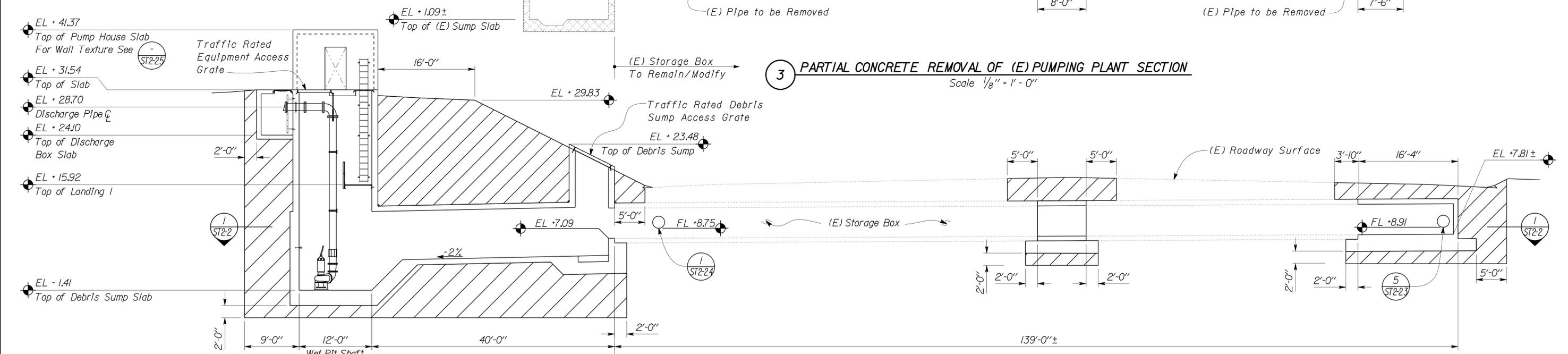
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1352	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 SITE PLAN**  
Scale 1" = 40' - 0"



**4 PARTIAL CONCRETE REMOVAL OF (E) PUMPING PLANT PLAN VIEW**  
Scale 1/8" = 1' - 0"



**3 PARTIAL CONCRETE REMOVAL OF (E) PUMPING PLANT SECTION**  
Scale 1/8" = 1' - 0"

**2 PUMPING PLANT SECTION**  
Scale 1/8" = 1' - 0"

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

RE Travis DESIGN SUPERVISOR Joe G... DESIGN ENGINEER	DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
	DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
	QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 29-0120W  
POST MILE RTE 26/99 Sep PUMPING PLANT

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
STRUCTURAL SITE PLAN

SHEET **ST2-0**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT PROJECT NUMBER & PHASE 3581 10000004091

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	07-22-10 02-04-11 03-02-11 03-29-11 04-07-11 04-13-11 05-12-11 05-26-11 10-20-11	

EA 3A1001 D:\User\Projects\Dist\_10\1000000409\_Stockton\_pp\st2\_Rte\_26\_99\_SEP\_charter\_way\Expedite\_10-21-2011\st2\_00.dgn

30-MAR-2012 14:13

**A PUMPING PLANT DESIGN NOTES**

1. Design : AASHTO LRFD Bridge Design Specification, 4th Edition with California Amendments, Preface dated December 2008
- a. Loads :
  - Vertical Box :
    - Earth Loads ( Equivalent Fluid Pressure ) :
      - 60 PCF above GWT
      - 90 PCF below GWT
    - Horizontal Box :
      - Live Load : HS 20-44 Truck
      - Roof : 30% Impact up to 3' of cover, no Impact above 3' of cover.
      - Walls : No surcharge
      - Invert : No impact
    - Earth Loads ( Equivalent Fluid Pressure for two conditions ) :
      - 140 PCF vertical and 42 PCF horizontal
      - 140 PCF vertical and horizontal
    - Landings : Live Load 100 PSF
  - b. Reinforced Concrete ( Ultimate Strength Design ) :
    - $f'_c = 3,250$  PSI
    - $f_y = 60,000$  PSI
  - c. Miscellaneous Metal ( Working Stress Design ) :
    - $f_y = 36,000$  PSI unless otherwise noted
2. Foundation Report : Dated April II, 2011

**B DETAIL NOTES**

1. Metal Work Notes :
  - a. All metal work shall be hot dip galvanized after fabrication
  - b. Secure metal to metal connections shown as + with a  $1/2"$   $\varnothing$  x  $1/2"$  hex head machine bolt, lock washer and hex nut unless otherwise noted.
  - c. Mechanical Expansion Anchors shall be  $5/8"$   $\varnothing$  and have a 4" minimum embedment, 3'-0" maximum spacing and placed 6" from ends, two minimum, unless otherwise shown.
  - d. Mechanical Expansion Anchors used for securing ladders inside of Pumping Plant shall be of stainless steel.
  - e. All lock washers shall be helical spring lock washers.
  - f. All Railing and Ladders shall have smooth edges.
  - g. Welded Steel Grate : Unless otherwise noted
    - Bearing Bars  $1 3/4"$  x  $3/16"$  @  $1 3/16"$  C-C
    - Cross Bars  $1/2"$   $\varnothing$  @ 4" C-C
    - Trim Bars  $1 3/4"$  x  $3/16"$  fillet welded to ends of Bearing Bars
 Grate shall be anchored to supports with  $1/4"$   $\varnothing$  threaded stud and "Saddle Clip" type fastener as recommended by the manufacturer. Fasteners shall be installed at 3'-0" C-C maximum 6" from ends with 3 minimum per fixed grate.
  - h. Welded Steel Grate :
    - Traffic Rated Grate :
      - Bearing Bars  $5"$  x  $3/8"$  @  $1 3/16"$  C-C
      - Cross Bars  $1/2"$   $\varnothing$  @ 4" C-C
      - Trim Bars  $5"$  x  $3/8"$  fillet welded to ends of Bearing Bars
 Direction of Bearing Bars is indicated by
2. For Discharge Pipe locations and elevations, see Mechanical Plans.
3. For Ground Rod details not shown, see Electrical Plans.
4. For Ladder Details see & for Ladder Safety Post.

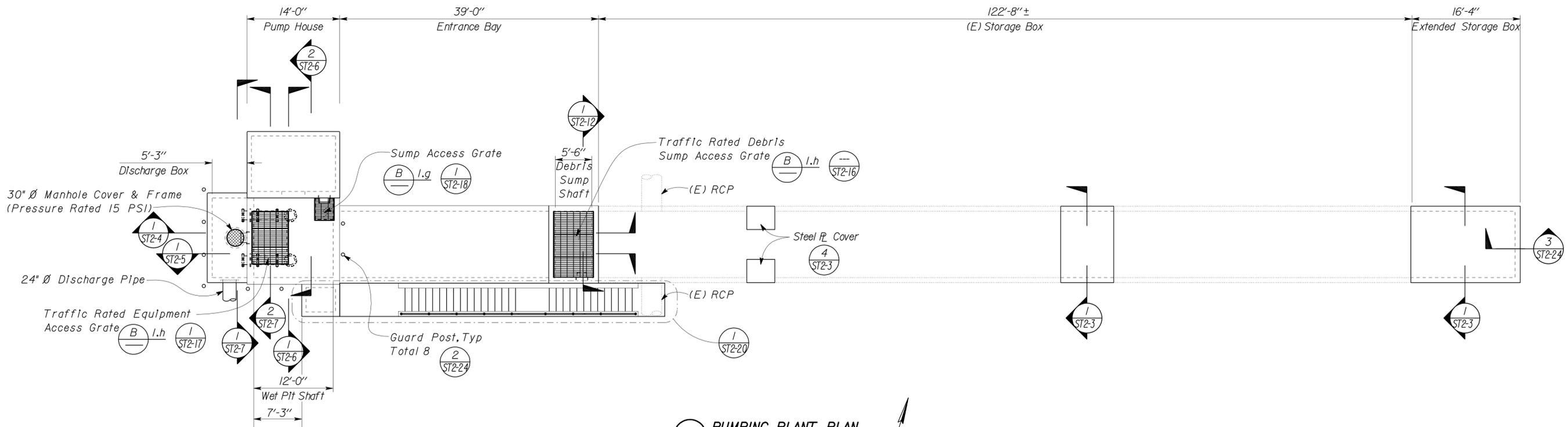
**ABBREVIATIONS**

Alt	Alternative
Btm	Bottom
EL	Elevation
GWT	Ground Water Table
MEA	Mechanical Expansion Anchor
OH	Opposite Hand
PP LOL	Pumping Plant Layout Line
Stagg	Staggered

**SYMBOLS**

	Elevation or Working Point
	Existing Features
	Earth
	Free Draining Granular Material
	Reinforced Concrete
	Detail Number or Note Number
	Additional Reference (If required)
	Sheet Number
	Limits of Structure Excavation & Structure Backfill (shown on plan view)
	Structure Excavation & Structure Backfill
	Concrete Removal

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1353	1414
			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**1 PUMPING PLANT PLAN**  
Scale  $1/8" = 1'-0"$

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

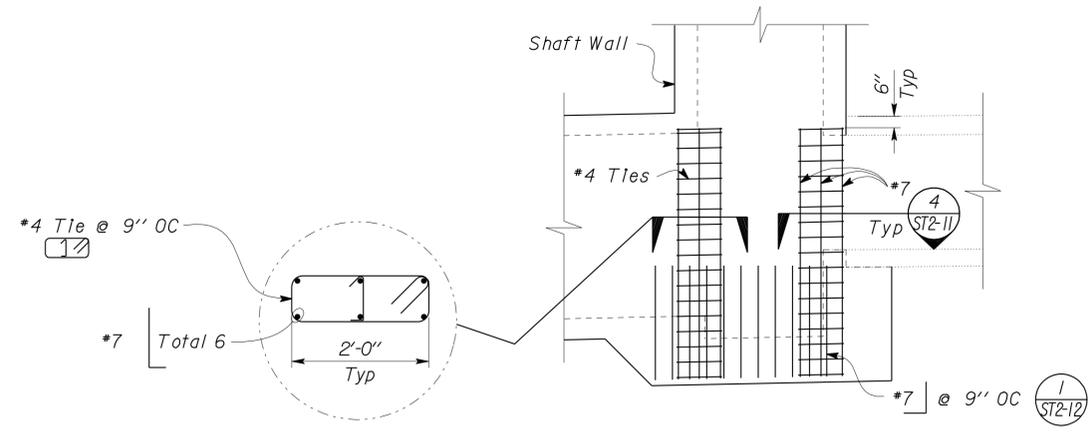
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 29-0120W	POST MILE
------------------------	-----------

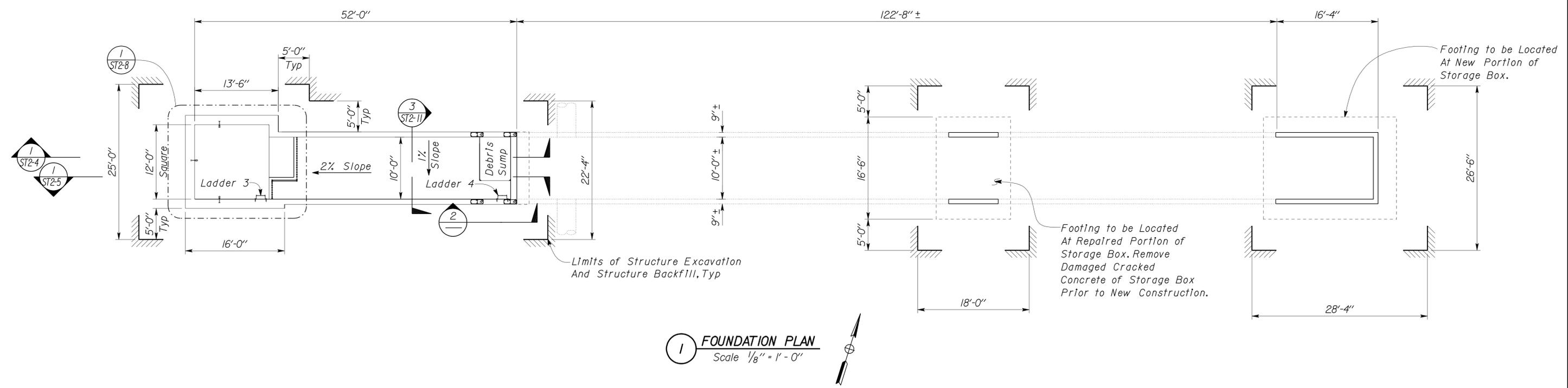
**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
PUMPING PLANT PLAN

SHEET OF  
**ST2-1**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1354	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**2** ADDITIONAL WALL REINFORCEMENT TYPICAL  
 Scale 1/4" = 1'-0"



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

**Note**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

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

BRIDGE NO. 29-0120W  
 POST MILE  
 EAST STOCKTON UP AND RTE 26/99  
 Sep PUMPING PLANTS  
 RTE 26/99 Sep PUMPING PLANT  
 FOUNDATION PLAN

SHEET OF  
**ST2-2**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE  
 3581 10000004091  
 EA 3A1001

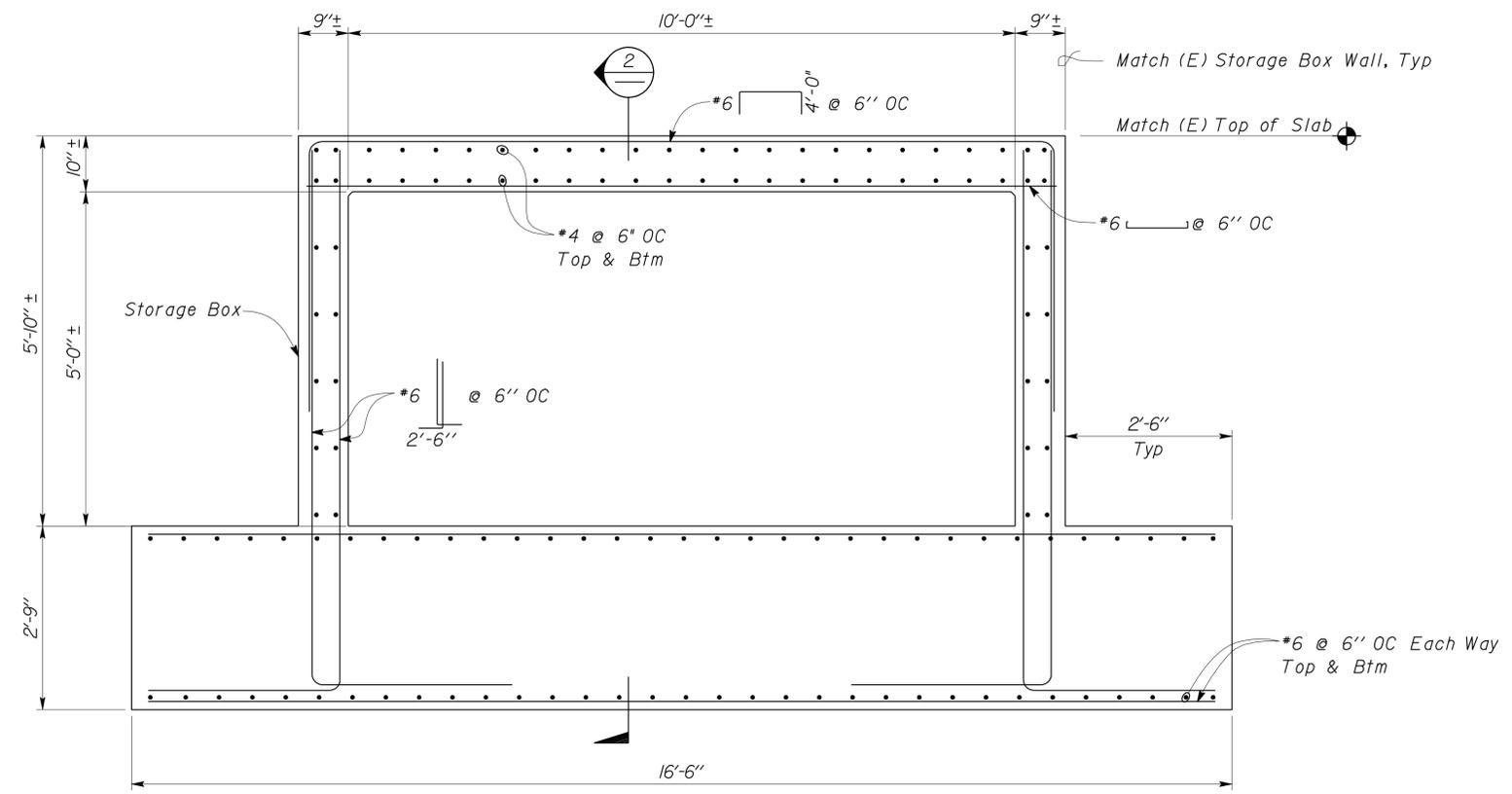
DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES (PRELIMINARY STAGE ONLY)  
 10-20-11 05-08-11 05-26-11 05-01-11 05-09-11 06-23-11 06-27-11

SHEET OF

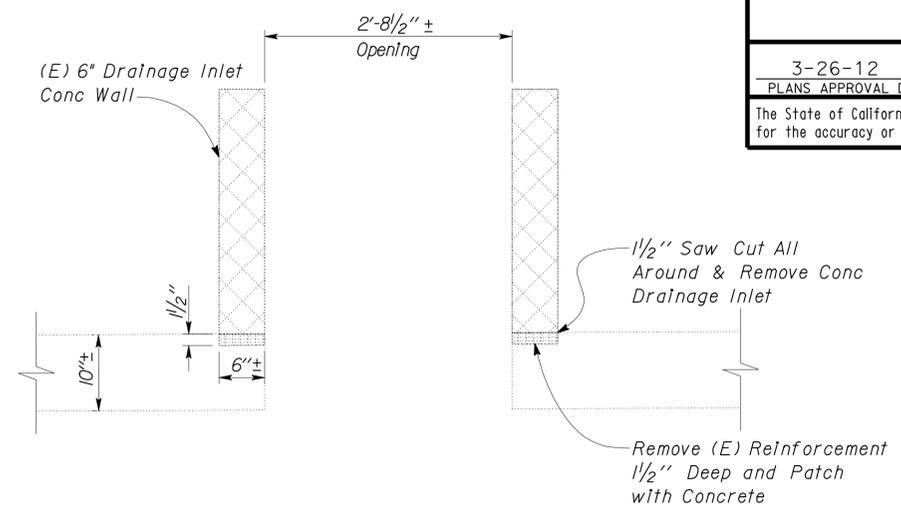
D:\User\Projects\Dist\_10\1000000409\_Stockton\_pp\st2\_Rte\_26\_99\_SEP\_charter\_way\Expd1fe\_10-21-2011\st2\_02.dgn

28-MAR-2012 15:55

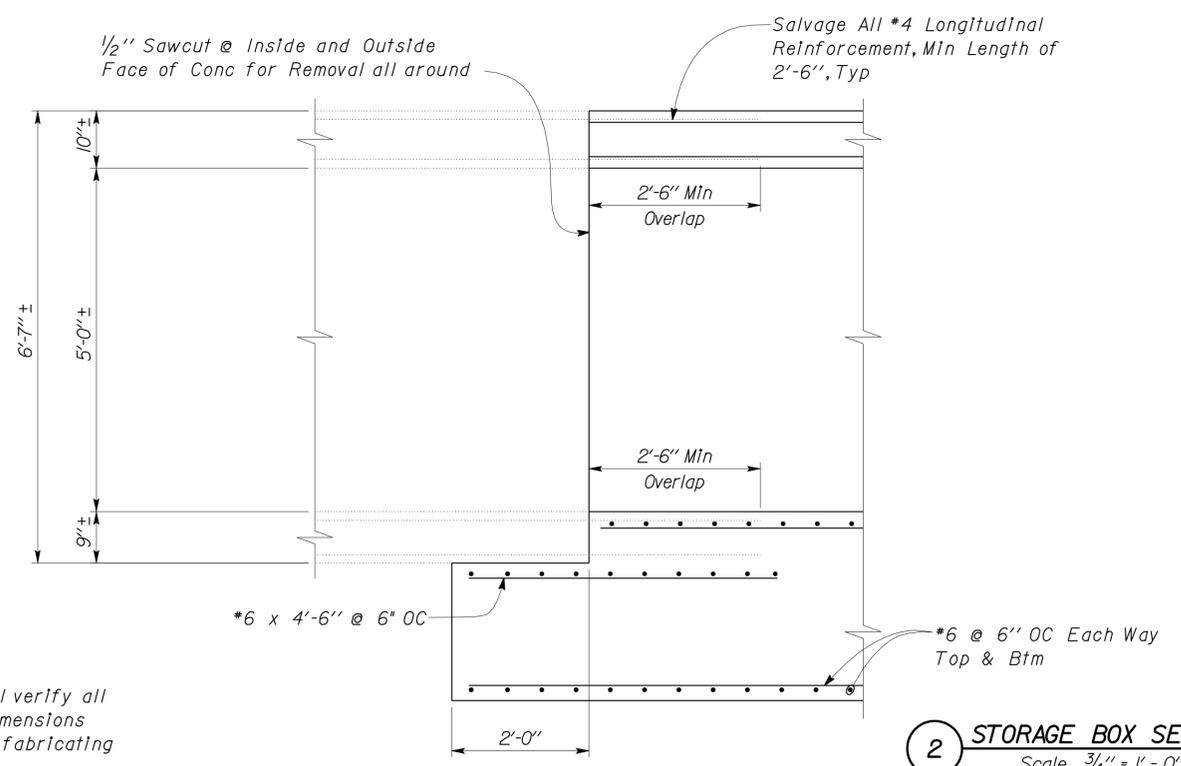
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1355	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 PLANS APPROVAL DATE 3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



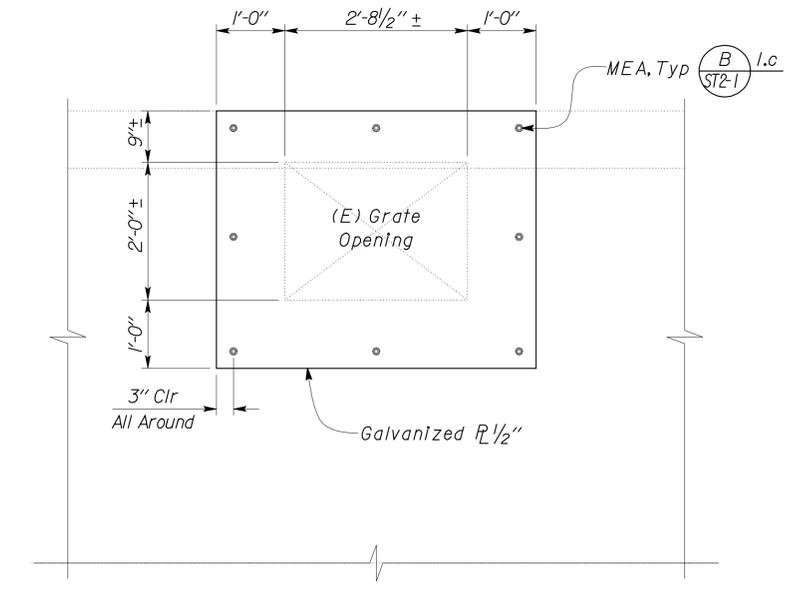
**1 STORAGE BOX SECTION**  
Scale 3/4" = 1' - 0"



**3 (E) DRAINAGE INLET REMOVAL TYPICAL**  
Scale 1" = 1' - 0"



**2 STORAGE BOX SECTION**  
Scale 3/4" = 1' - 0"



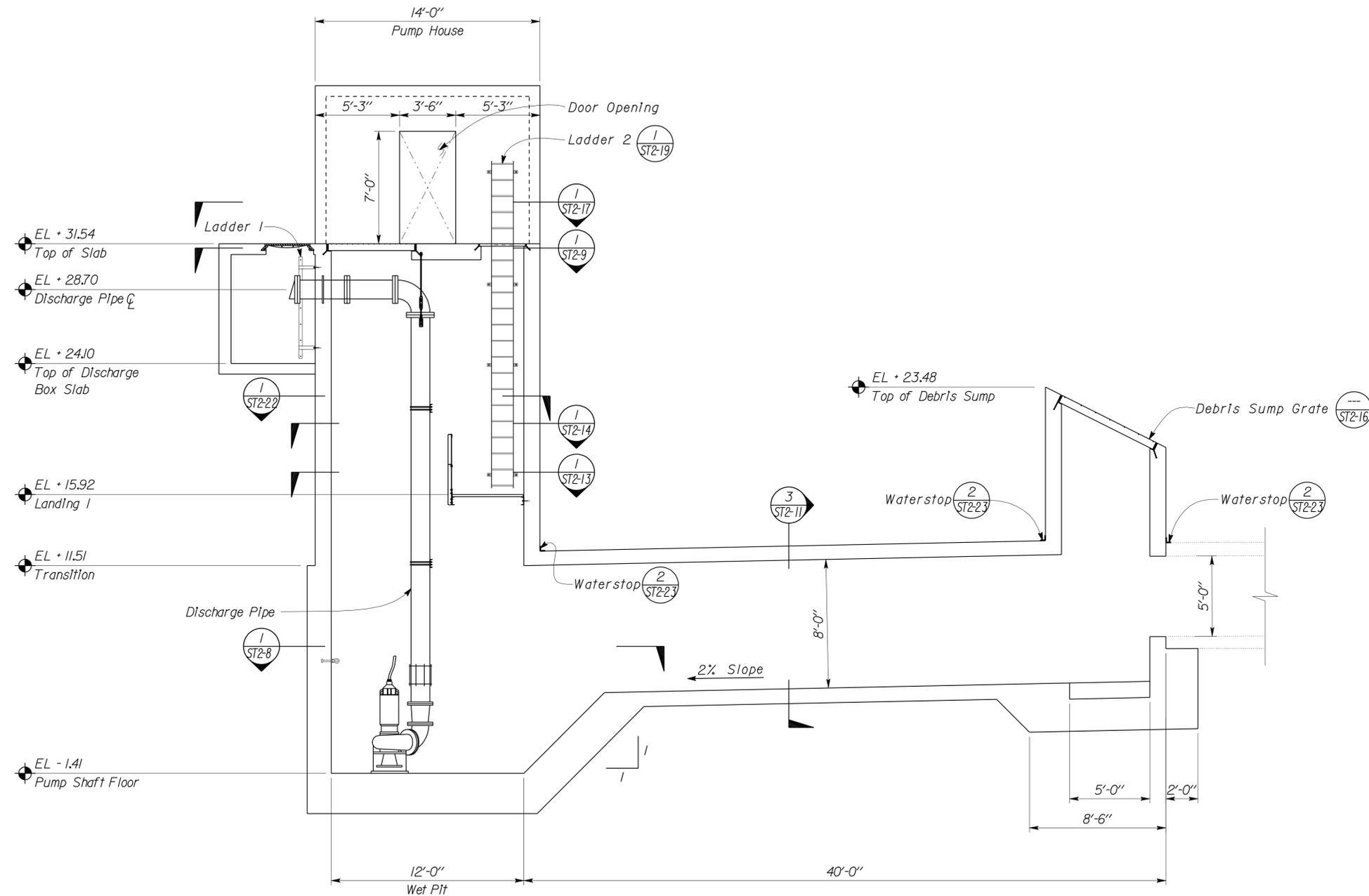
**4 STEEL PLATE COVER**  
Scale 3/4" = 1' - 0"

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26 / 99		SHEET OF <b>ST2-3</b>	
	DETAILS	BY	Daniel Harakh	CHECKED			Chandra Bapat	29-0120W	Sep PUMPING PLANTS		
QUANTITIES	BY		CHECKED				POST MILE	RTE 26/99 Sep PUMPING PLANT	STORAGE BOX SECTION & DETAILS		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
UNIT PROJECT NUMBER & PHASE					EA 3A1001	3581 10000004091		DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-02-11   04-07-11   05-12-11   05-17-11   06-22-11   10-20-11	

29-MAR-2012 17:46

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1356	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 PUMPING PLANT SECTION**  
Scale 1/4" = 1' - 0"

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.  
29-0120W  
POST MILE

**EAST STOCKTON UP AND RTE 26 / 99**  
**Sep PUMPING PLANTS**  
RTE 26/99 Sep PUMPING PLANT  
**PUMPING PLANT SECTION I**

SHEET  
**ST2-4**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES  
FOR REDUCED PLANS



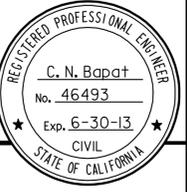
UNIT PROJECT NUMBER & PHASE  
3581 10000004091  
EA 3A1001

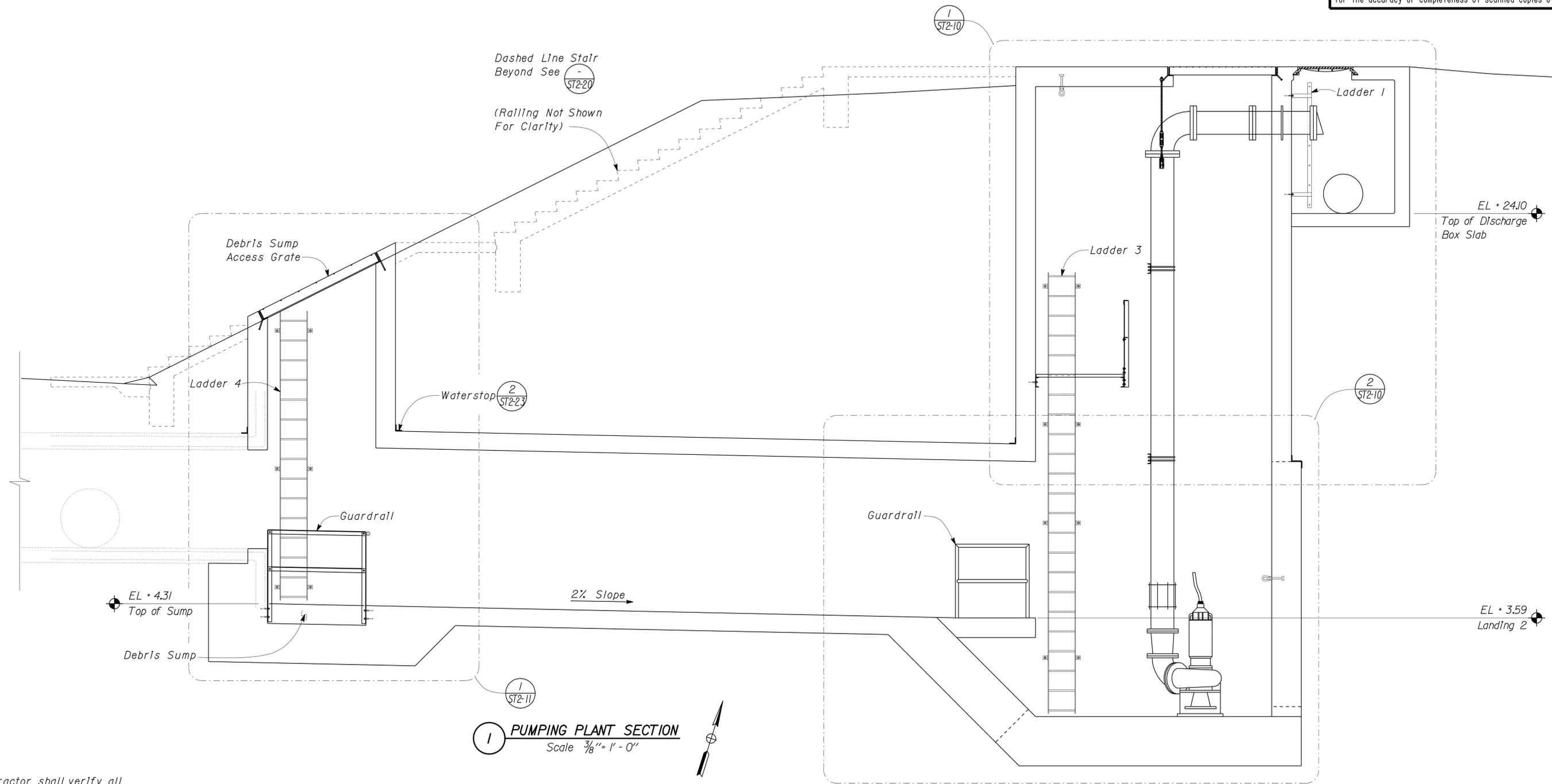
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
02-03-11   03-03-11   03-10-11   03-28-11   04-12-11   05-12-11   05-26-11   10-20-11		

D:\User\Projects\Dist\_10\1000000409\_Stockton\_pp\st2\_Rte\_26\_99\_SEP\_charter\_way\Expedite\_10-21-2011\st2\_04.dgn

28-MAR-2012 15:55

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1357	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



1 PUMPING PLANT SECTION  
 Scale 3/8" = 1' - 0"

**Note**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

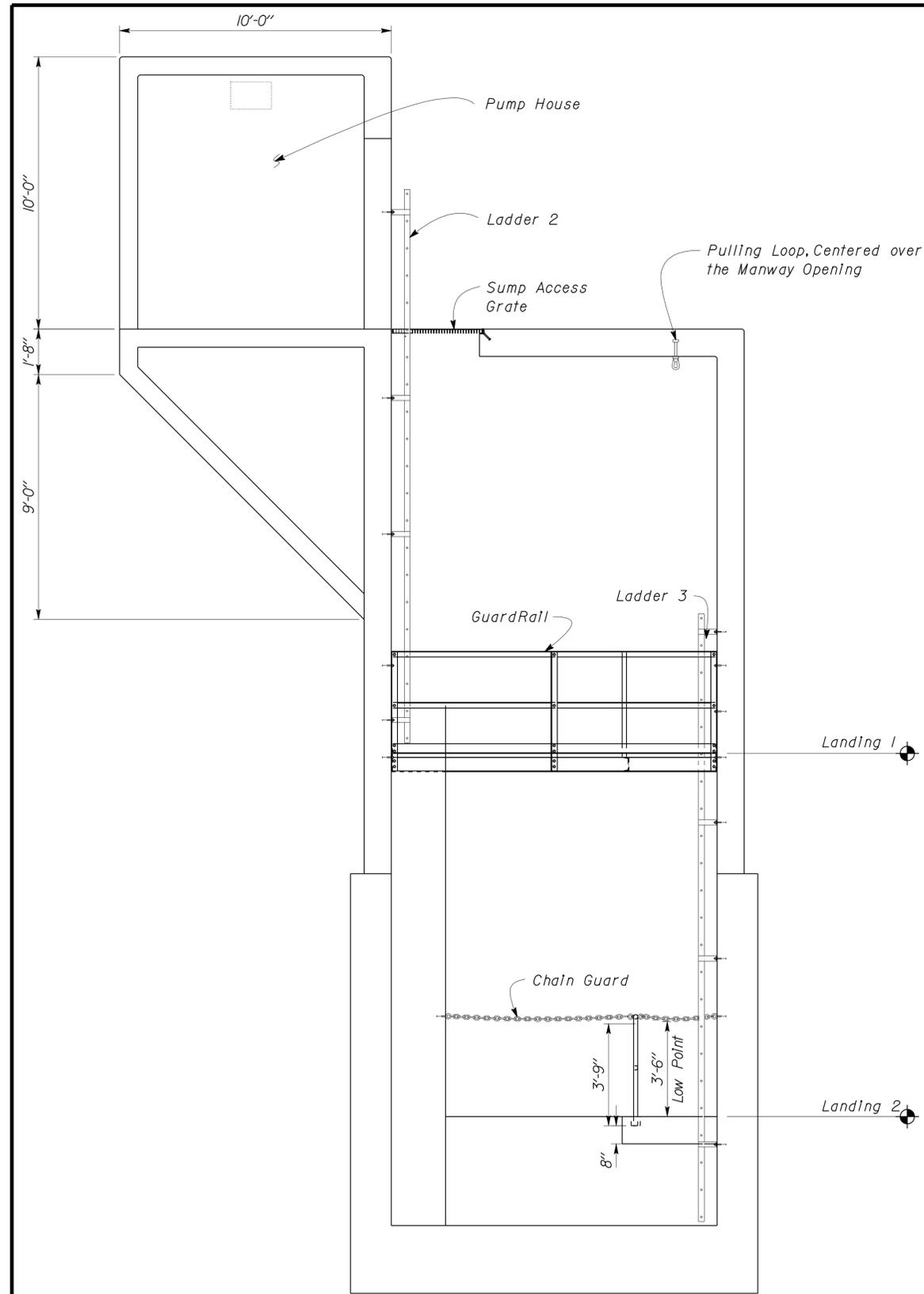
DIVISION OF ENGINEERING SERVICES  
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	29-0120W
POST MILE	

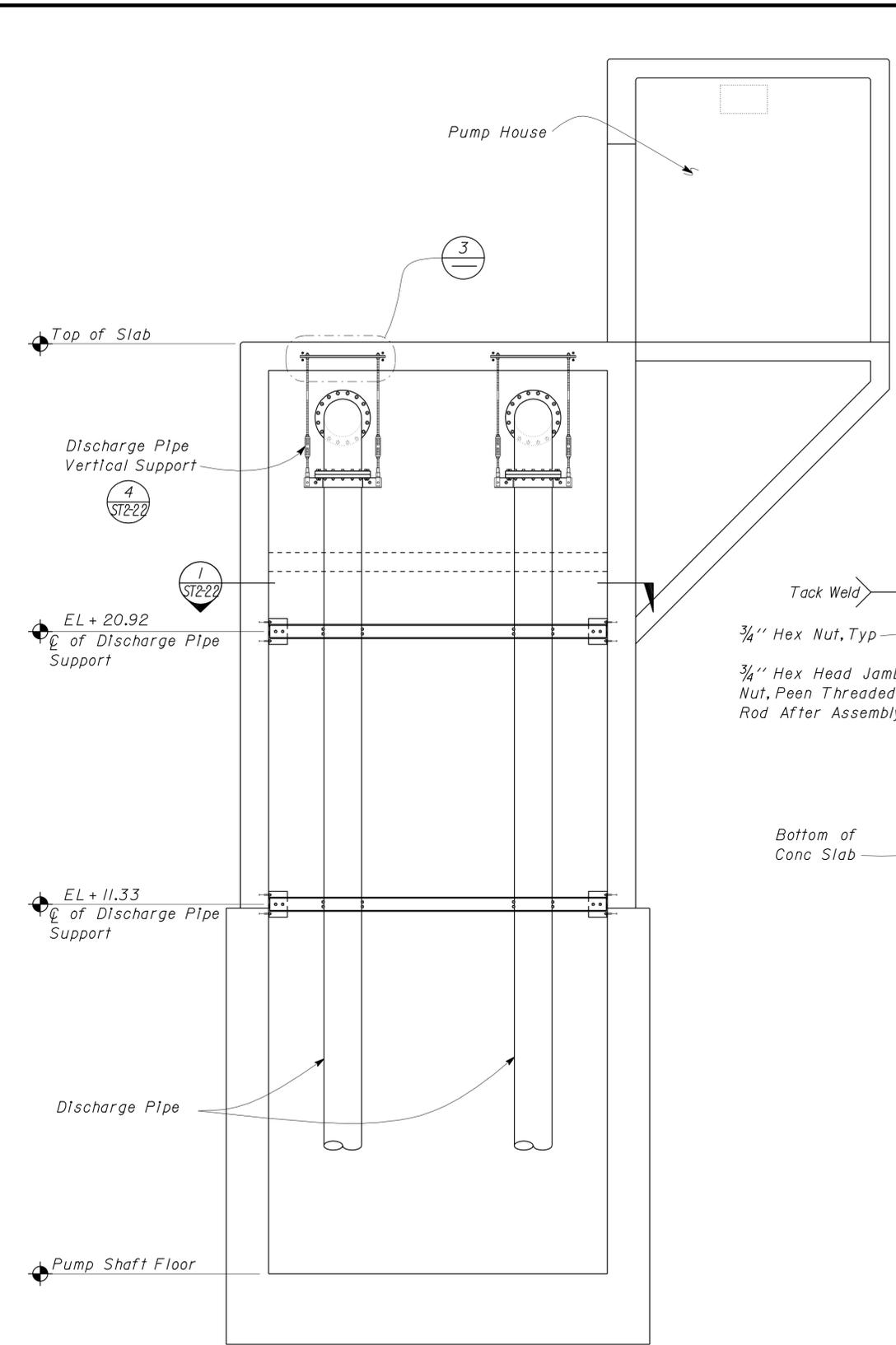
EAST STOCKTON UP AND RTE 26 / 99  
 Sep PUMPING PLANTS  
 PUMPING PLANT SECTION 2

SHEET OF  
 ST2-5

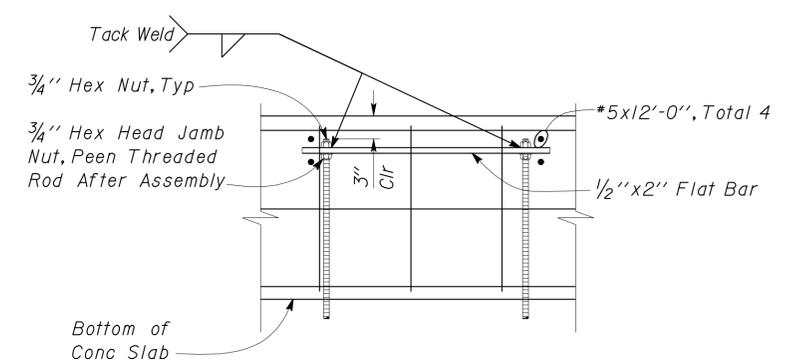
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1358	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			03-02-12 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 WET PIT SHAFT VERTICAL SECTION**  
Scale 3/8" = 1' - 0"



**2 DISCHARGE PIPE SUPPORT ELEVATION**  
Scale 3/8" = 1' - 0"



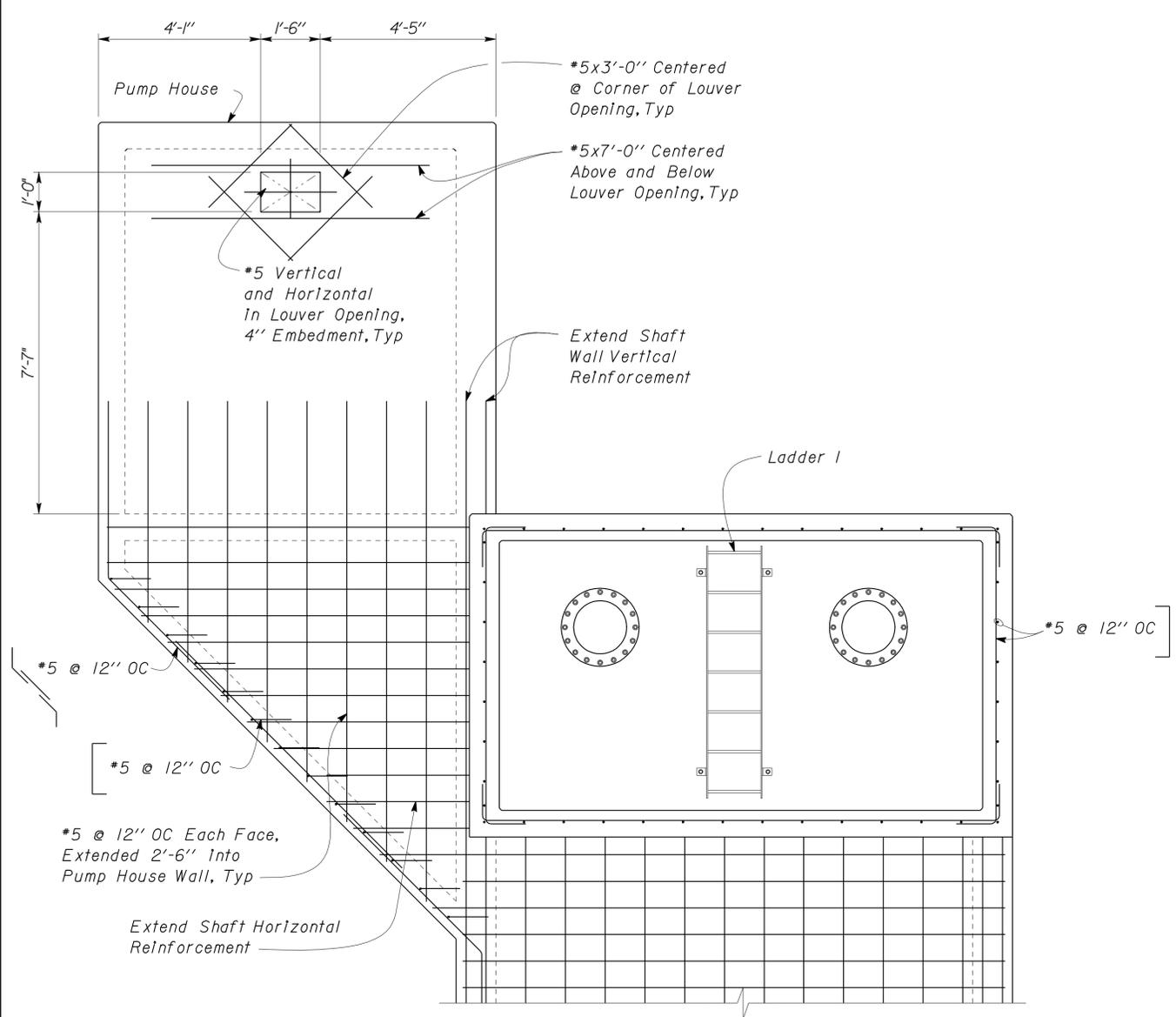
**3 THREADED ROD CONNECTION**  
Scale 1" = 1' - 0"

Note:  
For Items Not Noted  
See Detail **4**  
ST2-22

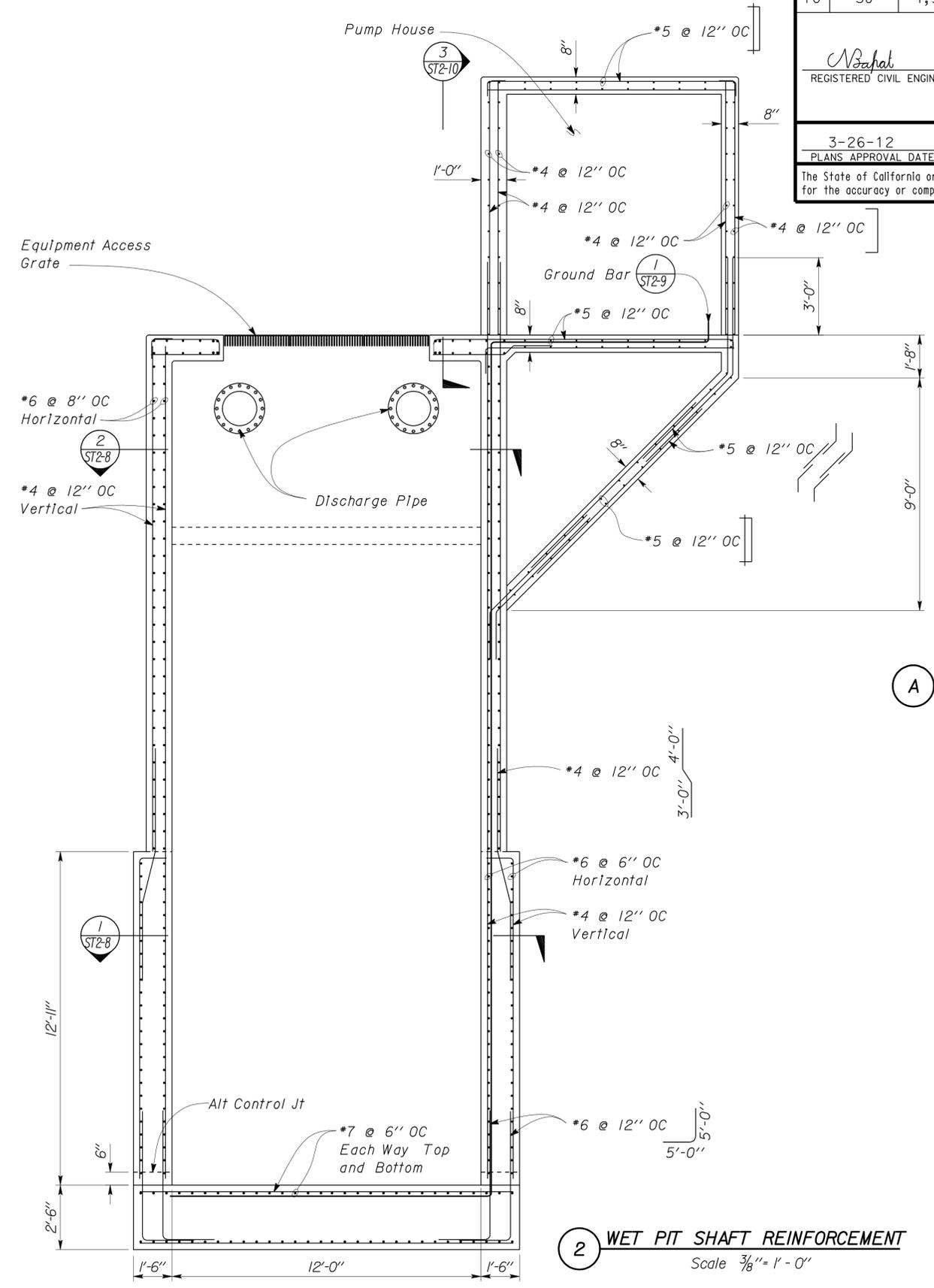
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99		SHEET			
	DETAILS	BY	Daniel Harakh	CHECKED			Chandra Bapat	29-0120W	Sep PUMPING PLANTS		ST2-6		
QUANTITIES	BY		CHECKED				POST MILE	RTE 26/99 Sep PUMPING PLANT	WET PIT SHAFT VERTICAL SECTIONS I	OF			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET		
UNIT PROJECT NUMBER & PHASE					3581	10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-10-11	04-12-11	10-20-11	02-23-12	OF
DOES SD Imp... Rev. 7/10 EA 3A1001 D:\User\Projects\Dist_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expedite_Resubmittal_03-02-2012\st2_06.dgn													

30-MAR-2012 14:13

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1359	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 REINFORCEMENT DETAIL**  
 Scale 1/2" = 1'-0"



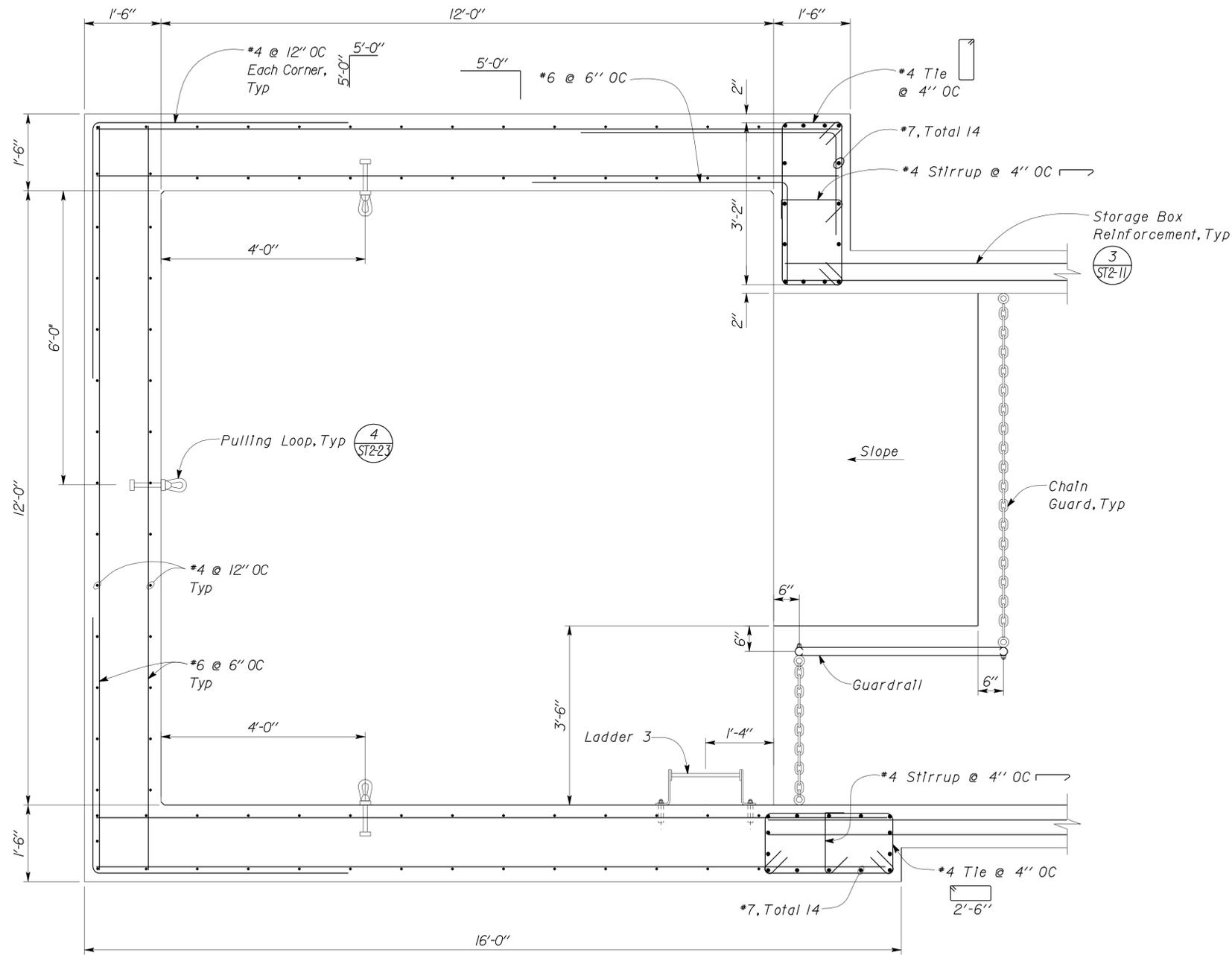
**2 WET PIT SHAFT REINFORCEMENT**  
 Scale 3/8" = 1'-0"

**A NOTE**  
 For Pump House Wall Texture, see ST2-25

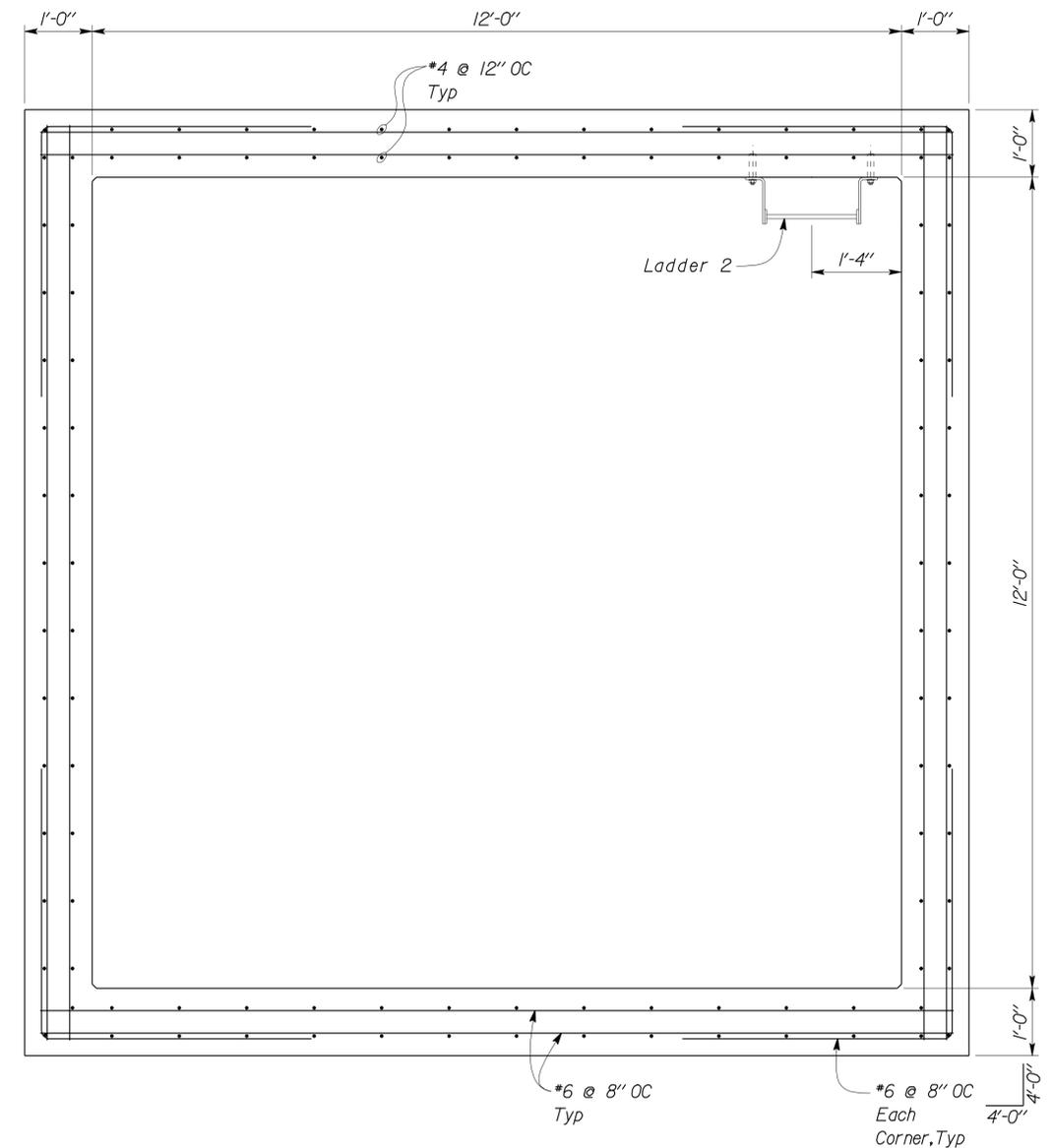
DESIGN BY Chandra Bapat	CHECKED BY Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b>	SHEET <b>ST2-7</b>
DETAILS BY Daniel Harakh	CHECKED BY Chandra Bapat		PROJECT NUMBER & PHASE EA 3A1001	POST MILE RTE 26/99 Sep PUMPING PLANT		WET PIT SHAFT VERTICAL SECTIONS 2
QUANTITIES BY	CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

28-MAR-2012 15:55

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1360	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 WET PIT SHAFT SECTION**  
Scale  $\frac{3}{4}'' = 1' - 0''$



**2 WET PIT SHAFT SECTION**  
Scale  $\frac{3}{4}'' = 1' - 0''$

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

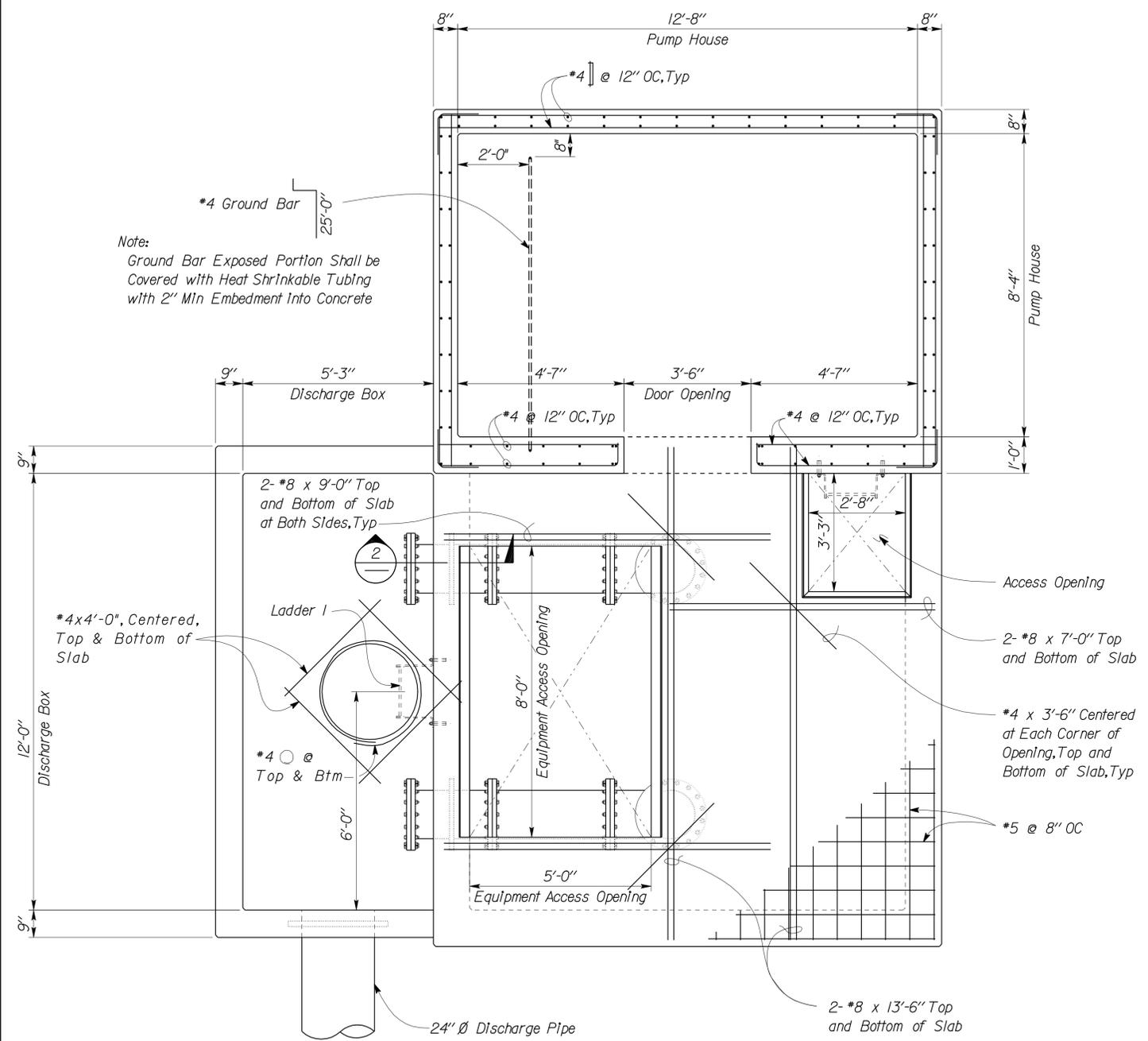
BRIDGE NO.  
29-0120W  
POST MILE

EAST STOCKTON UP AND RTE 26/99  
Sep PUMPING PLANTS

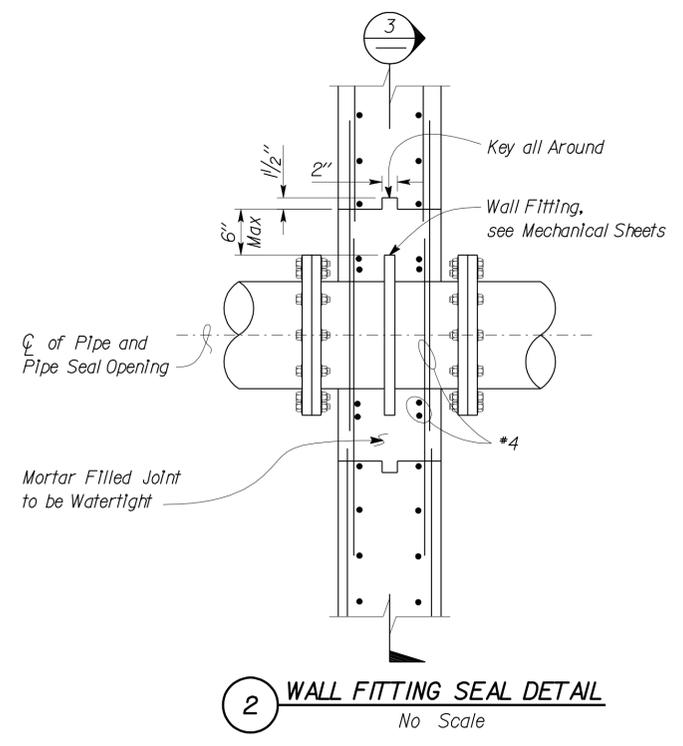
RTE 26/99 Sep PUMPING PLANT  
WET PIT SHAFT HORIZONTAL SECTIONS

SHEET  
ST2-8

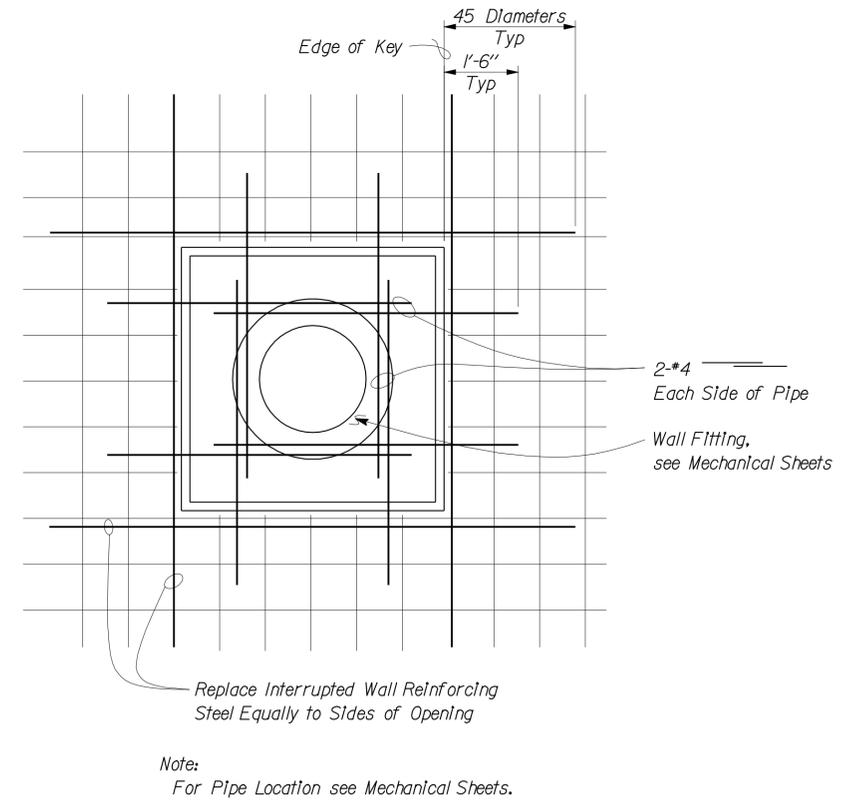
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1361	1414
 REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1** ROOF SLAB, PUMP HOUSE FLOOR PLAN, AND DISCHARGE BOX SECTION  
Scale 1" = 1'-0"



**2** WALL FITTING SEAL DETAIL  
No Scale



**3** PIPE SEAL DETAIL  
No Scale

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET ST2-9	
	DETAILS	BY	Daniel Harakh	CHECKED			Chandra Bapat	POST MILE	RTE 26/99 Sep PUMPING PLANT		
QUANTITIES	BY		CHECKED		UNIT	3581	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
TAEMWW Imper1al Rev. 7/10					PROJECT NUMBER & PHASE		10000004091	01-26-11 04-12-11 05-16-11		D:\User\Projects\Dist_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expd1fe_10-21-2011\st2_09.dgn	

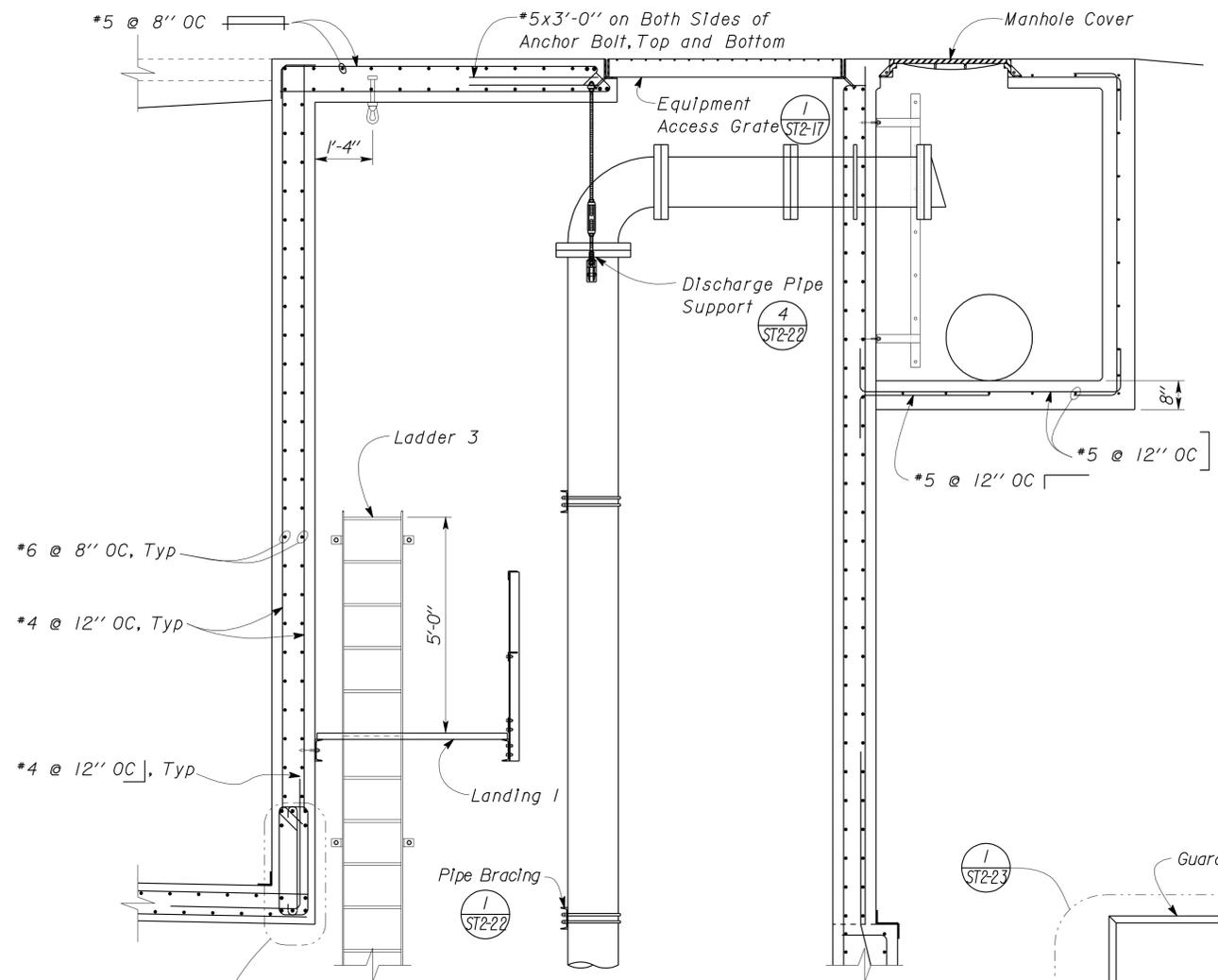
30-MAR-2012 05:42

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1362	1414

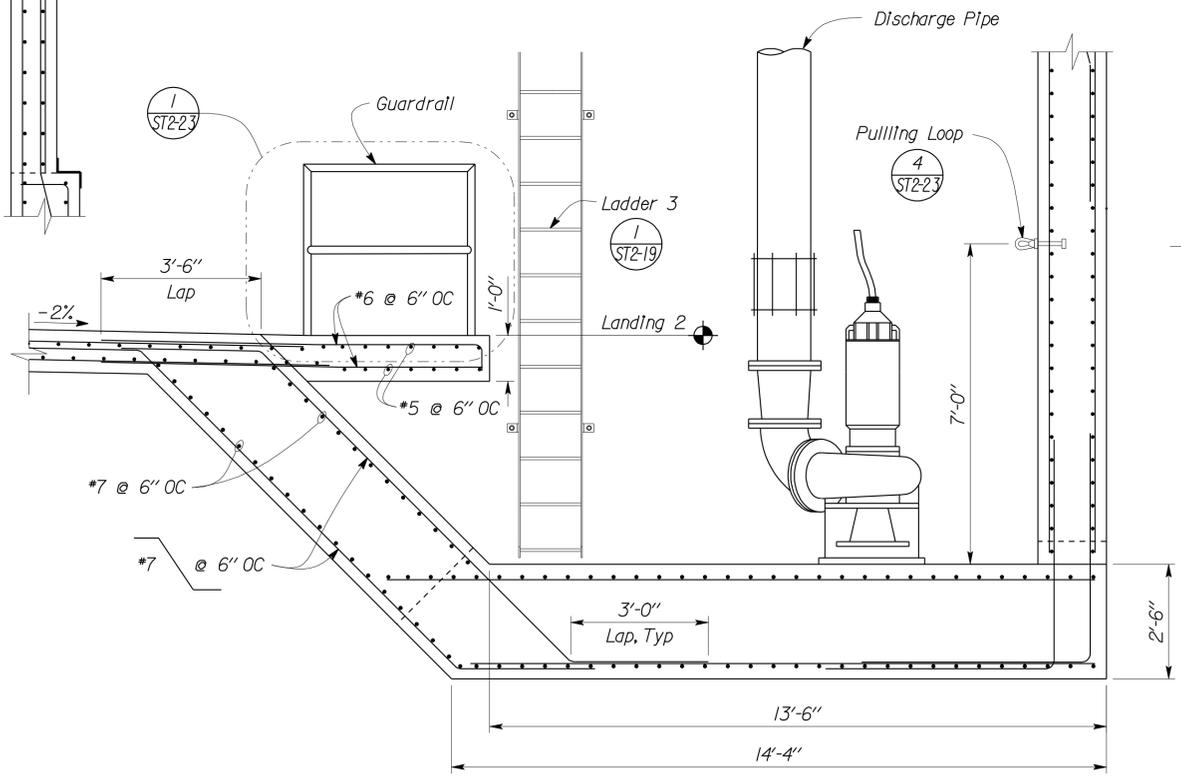
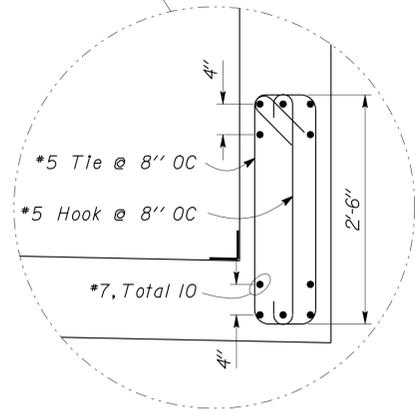
  

<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER	10-21-11 DATE
3-26-12 PLANS APPROVAL DATE	

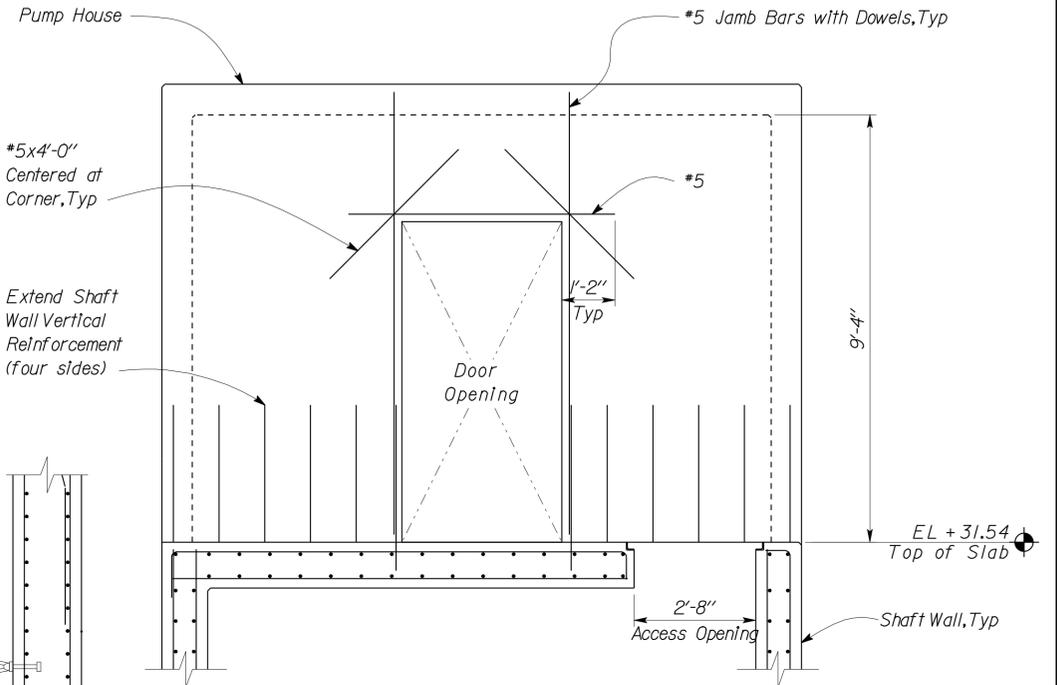
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



**1 TOP SHAFT/DISCHARGE BOX SECTION**  
Scale 1/2" = 1'-0"



**2 LANDING 2 SECTION**  
Scale 1/2" = 1'-0"



**3 PUMP HOUSE ELEVATION**  
Scale 1" = 1'-0"

Note:  
For more Reinforcement Information, see **2** ST2-7, **1** ST2-8, **3** ST2-11

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

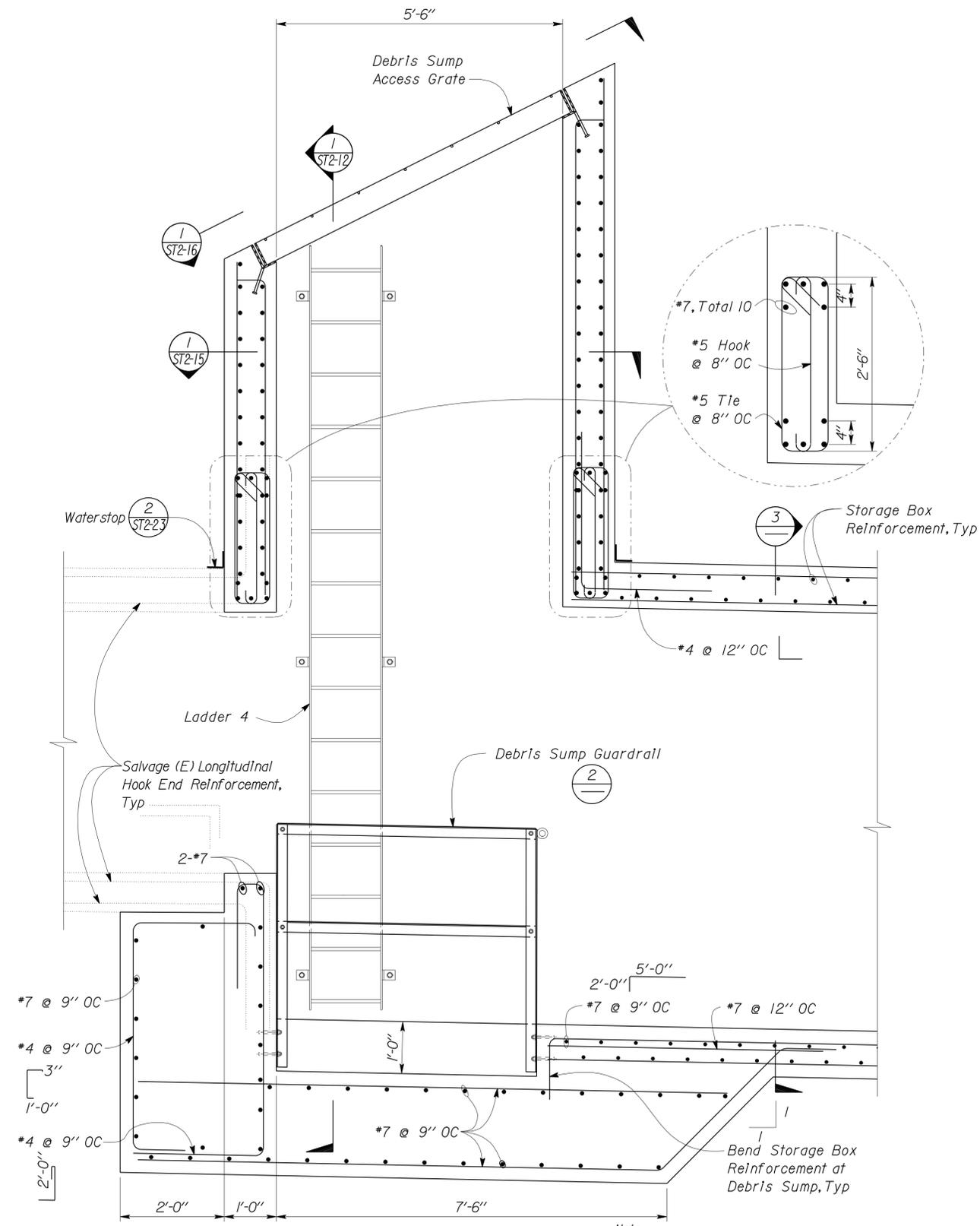
BRIDGE NO. 29-0120W  
POST MILE RTE 26/99 Sep PUMPING PLANT

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**

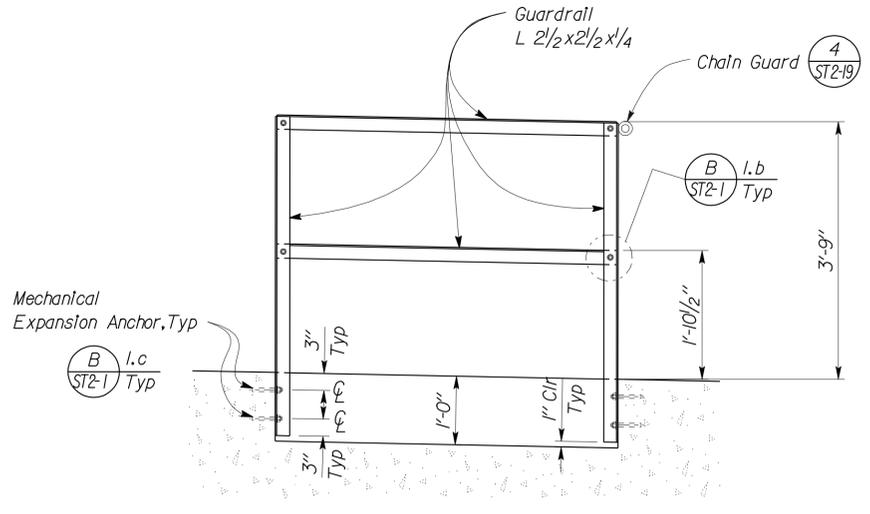
TOP SHAFT, DISCHARGE BOX SECTIONS/PUMP HOUSE ELEVATION

SHEET **ST2-10** OF

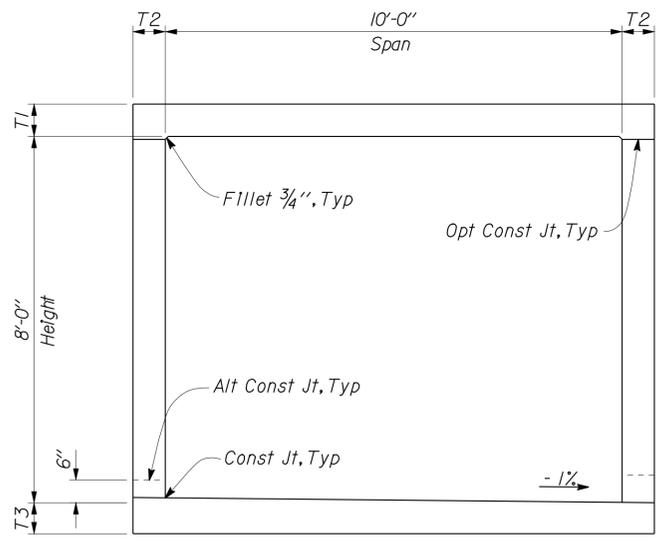
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1363	1414
			10-21-11 REGISTERED CIVIL ENGINEER DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



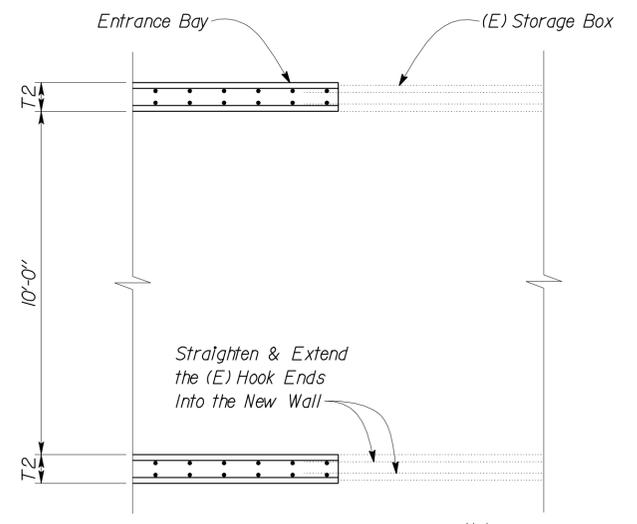
**1 DEBRIS SUMP SECTION**  
 Scale 1/2" = 1' - 0"



**2 GUARDRAIL DETAIL**  
 Scale 3/4" = 1' - 0"



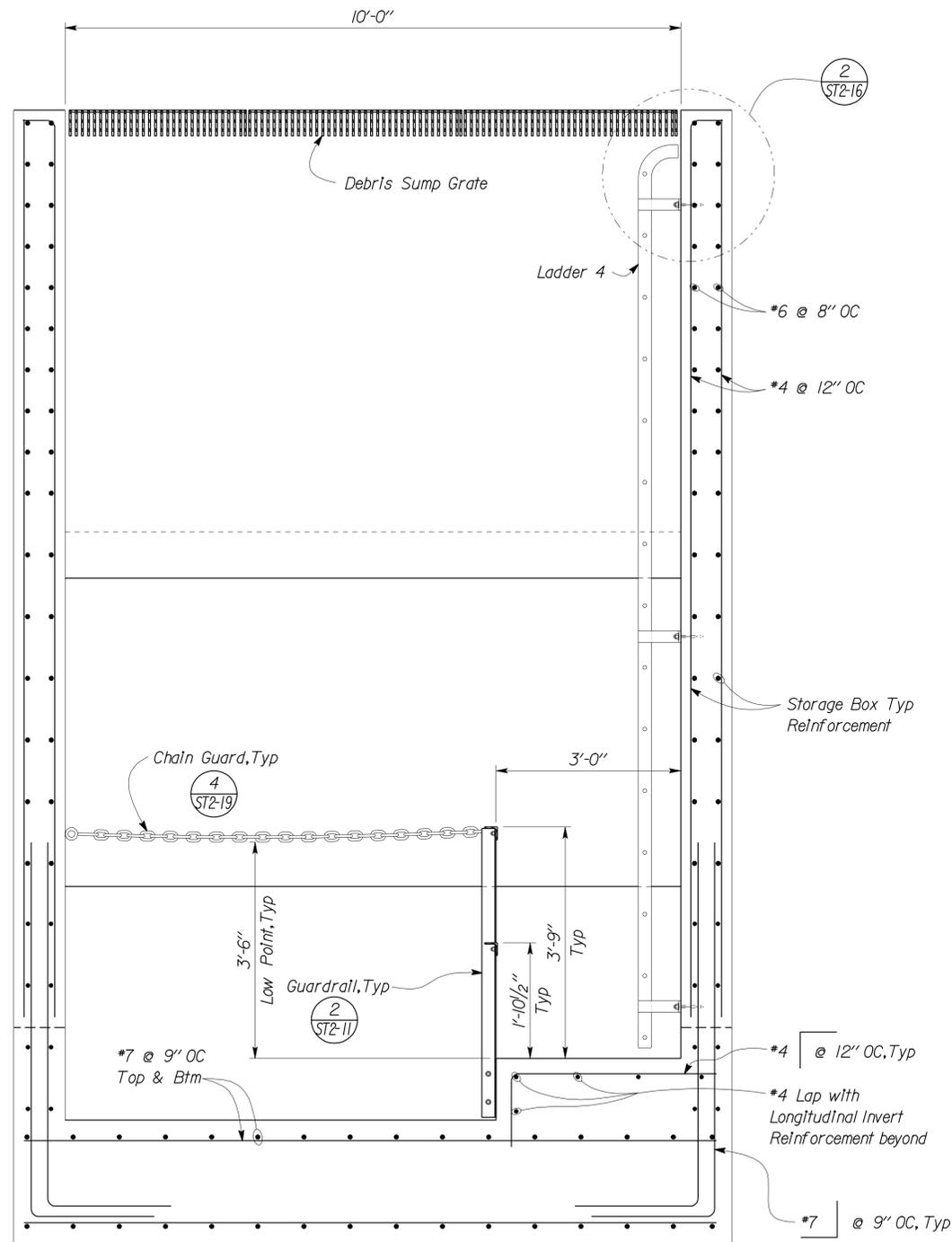
**3 STORAGE BOX SECTION**  
 Scale 1/2" = 1' - 0"



**4 PLAN VIEW (E) STORAGE BOX REIN EXTENSIONS TO ENTRANCE BAY**  
 Scale 3/8" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26 / 99</b> <b>Sep PUMPING PLANTS</b> DEBRIS SUMP AND STORAGE BOX SECTION	SHEET	
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat			POST MILE		29-0120W	ST2-11
QUANTITIES	BY	CHECKED			RTE 26/99 Sep PUMPING PLANT			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEMWW Imperial Rev. 7/10			0 1 2 3	EA 3A1001	D:\User\Projects\Dist_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expedite_10-21-2011\st2_11.dgn	12-27-10 04-07-11 04-12-11 05-12-11 06-08-11 06-28-11 06-28-11 10-21-11	15-55	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1364	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

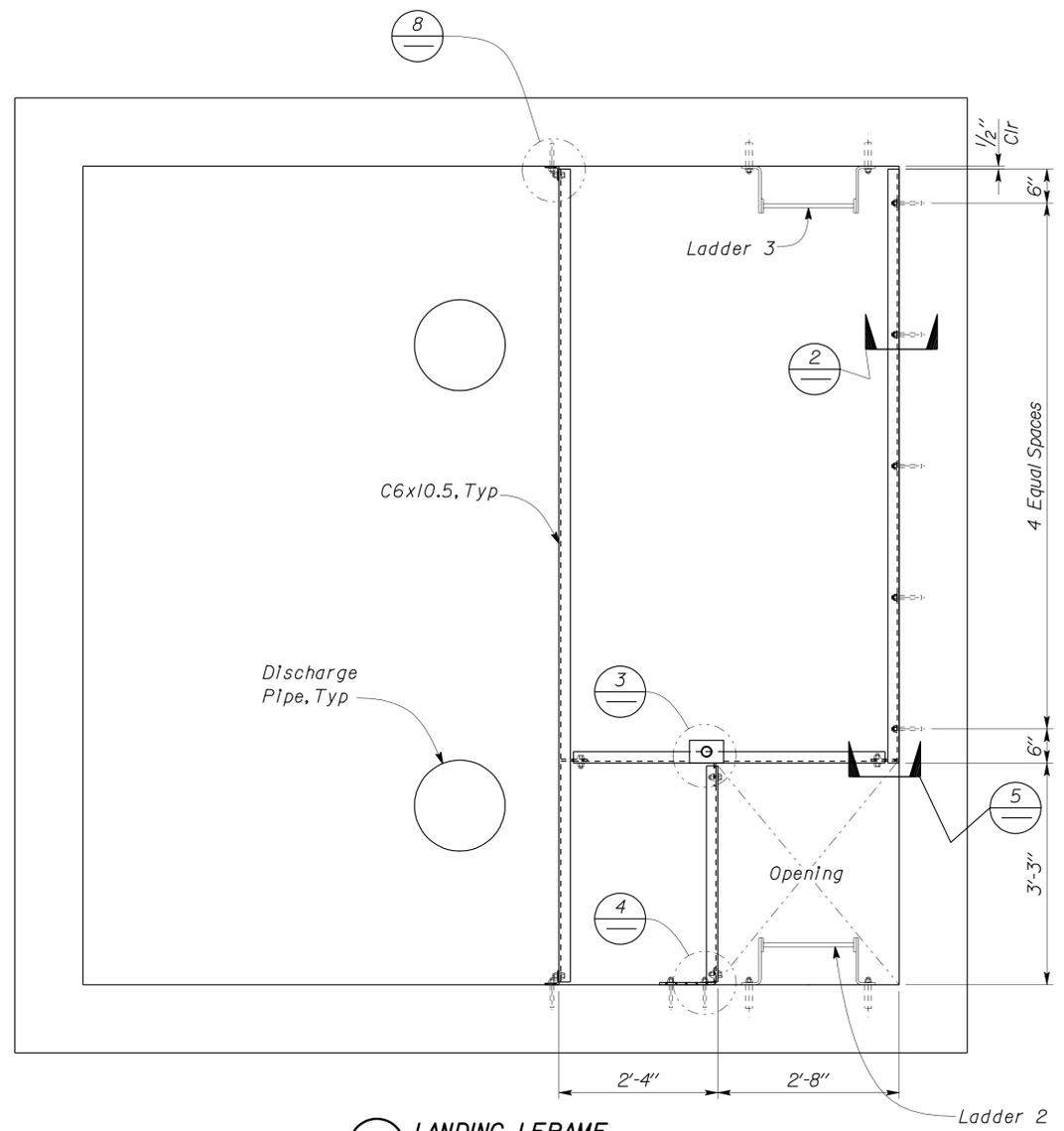


1 DEBRIS SUMP SECTION  
Scale 3/4" = 1' - 0"

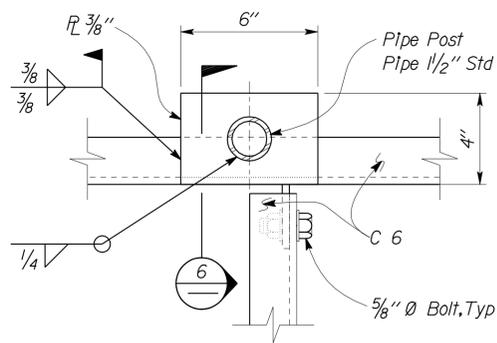
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	BRIDGE NO.	29-0120W	POST MILE	RTE 26/99 Sep PUMPING PLANT	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET ST2-12
	DETAILS	BY	Daniel Harakh	CHECKED						
QUANTITIES	BY		CHECKED		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		DEBRIS SUMP VERTICAL SECTION			
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					UNIT PROJECT NUMBER & PHASE EA 3A1001		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 04-07-11   04-12-11   05-26-11   10-20-11	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					3581 10000004091		SHEET OF		D:\User\Projects\N1st_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expedite_10-21-2011\st2_12.dgn	

28-MAR-2012 15:55

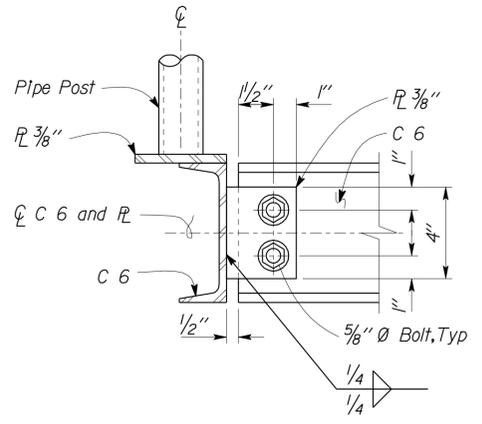
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1365	1414
<b>Chandra Bapat</b> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



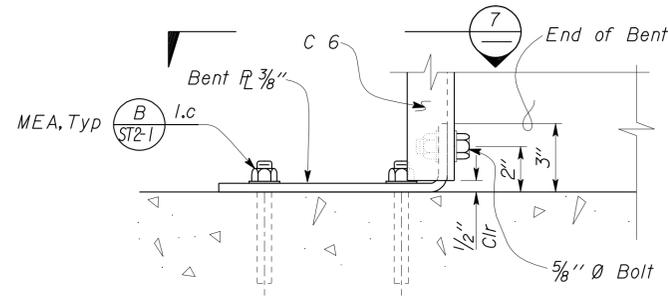
**1 LANDING I FRAME**  
Scale 3/4" = 1' - 0"



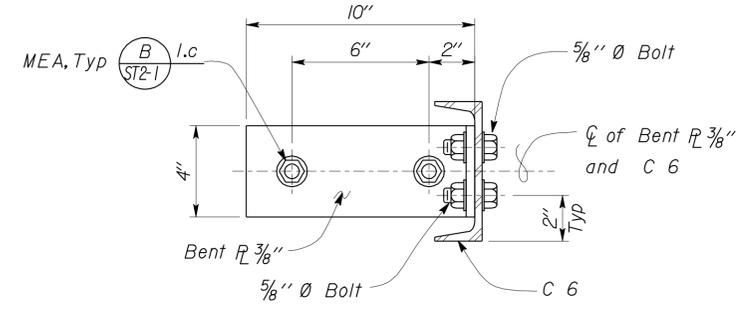
**3 C6 TO C6 AT OPENING**  
Scale 3" = 1' - 0"



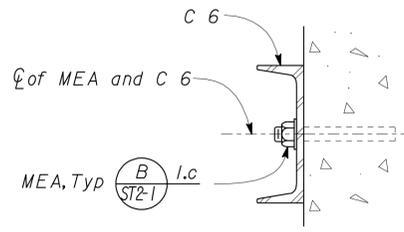
**6 C6 TO C6 SECTION**  
Scale 3" = 1' - 0"



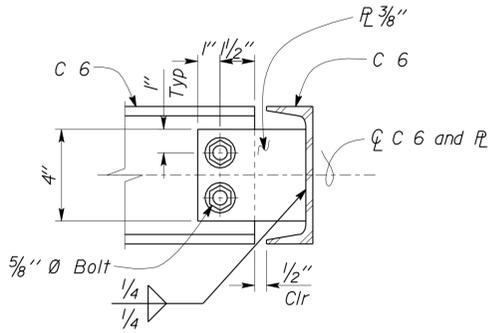
**4 C6 TO WALL CONNECTION**  
Scale 3" = 1' - 0"



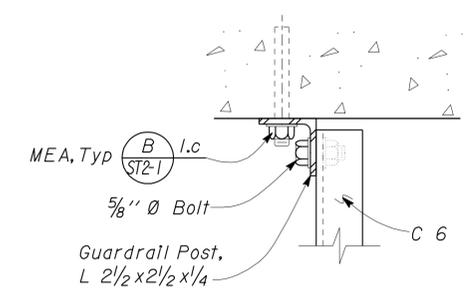
**7 C6 TO C6 ELEVATION**  
Scale 3" = 1' - 0"



**2 C6 TO WALL CONNECTION**  
Scale 3" = 1' - 0"



**5 C6 TO C6 CONNECTION**  
Scale 3" = 1' - 0"



**8 GUARDRAIL POST TO WALL AND C6**  
Scale 3" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.  
29-0120W  
POST MILE

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
RTE 26/99 Sep PUMPING PLANT  
LANDING FRAME DETAILS

SHEET  
**ST2-13**

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

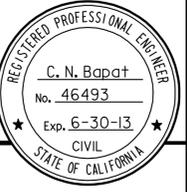
UNIT PROJECT NUMBER & PHASE  
3581 10000004091  
EA 3A1001

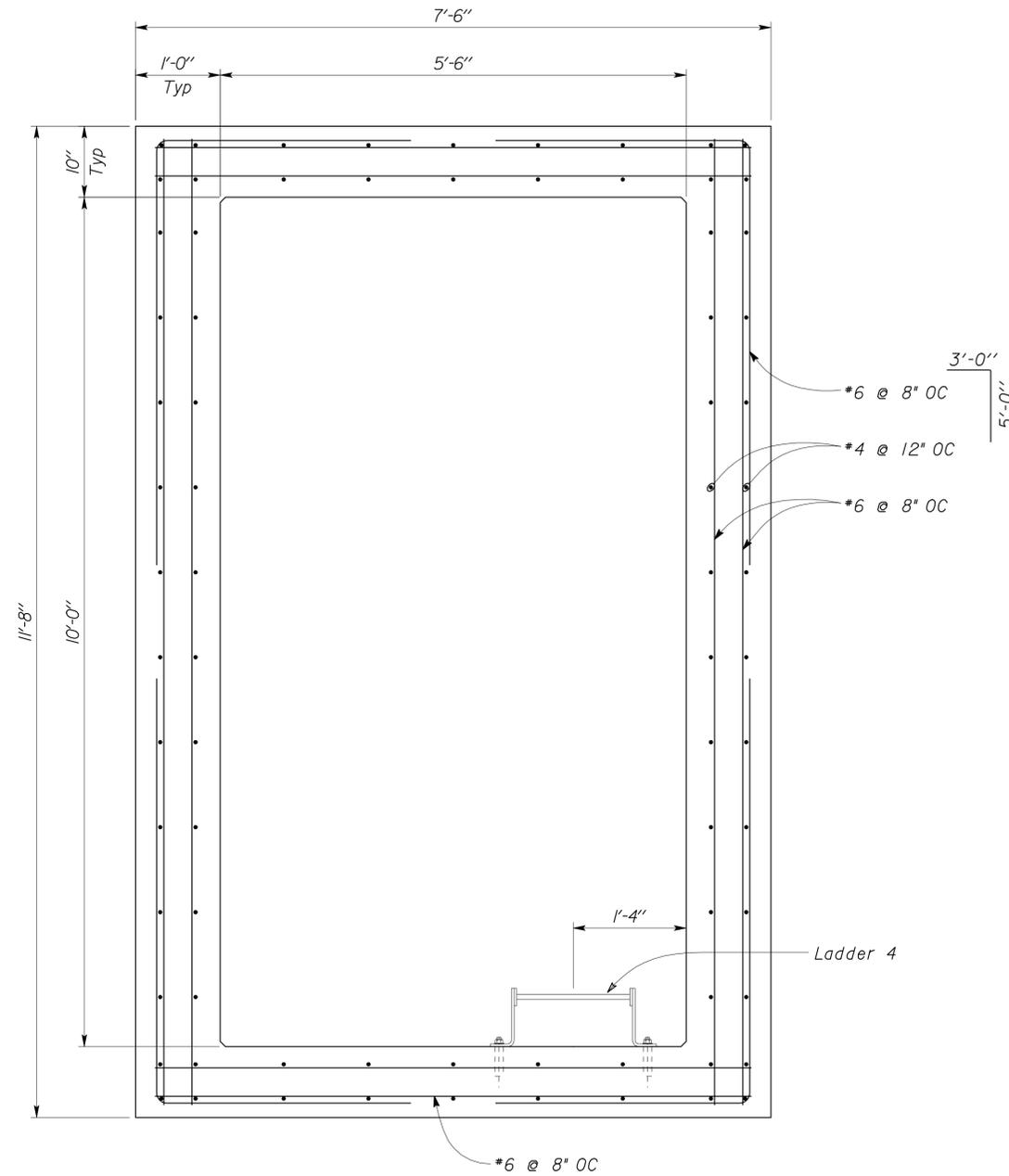
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1367	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

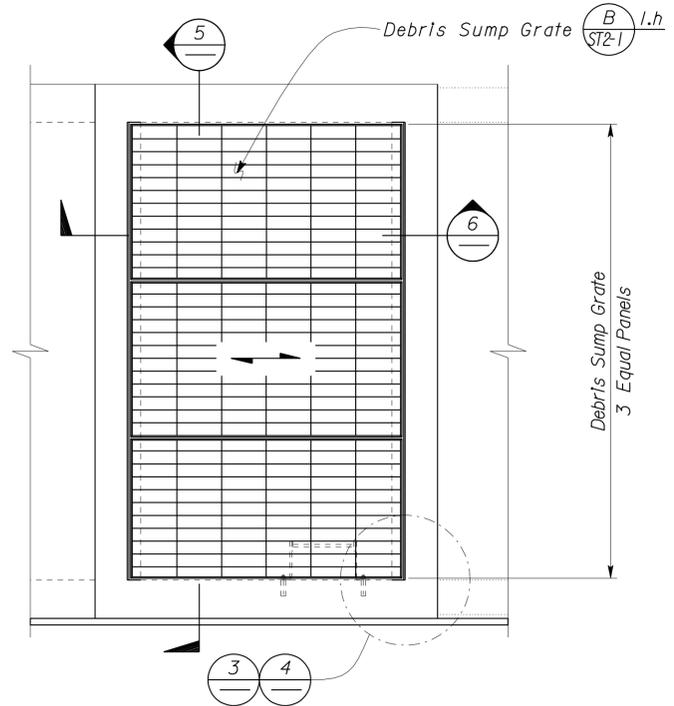


**1 DEBRIS SUMP SECTION**  
Scale 1" = 1'-0"

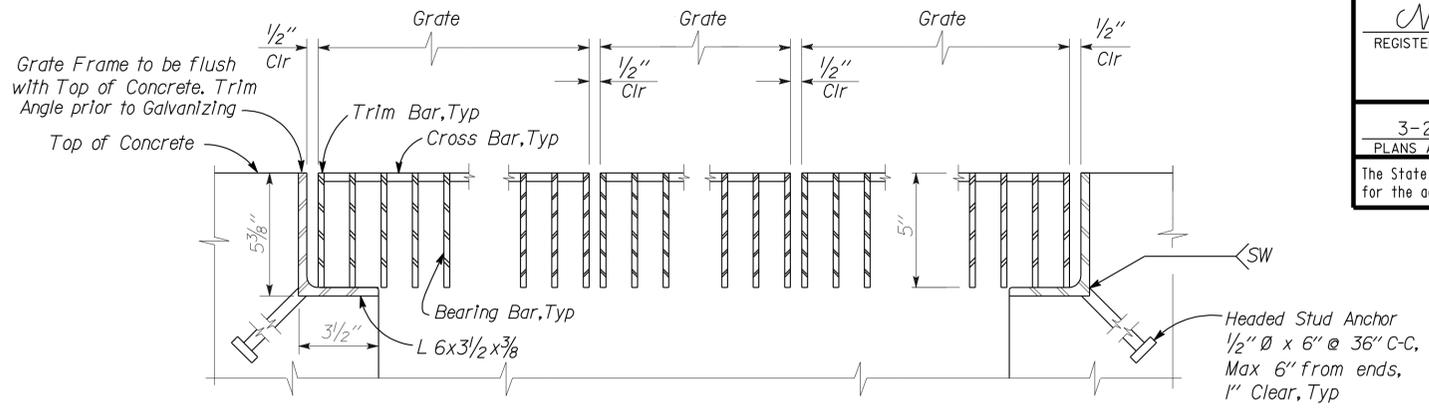
DESIGN BY <b>Chandra Bapat</b>	CHECKED <b>Thomas Tong</b>	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/99  Sep PUMPING PLANTS</b>	SHEET
				29-0120W		RTE 26/99 Sep PUMPING PLANT
DETAILS BY <b>Daniel Harakh</b>	CHECKED <b>Chandra Bapat</b>	DEBRIS SUMP SECTION			OF	
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE EA 3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEMWW Imper1al Rev. 7/10	0 1 2 3	10000004091	3581	03-24-11 04-12-11 05-17-11		

28-MAR-2012 15:55

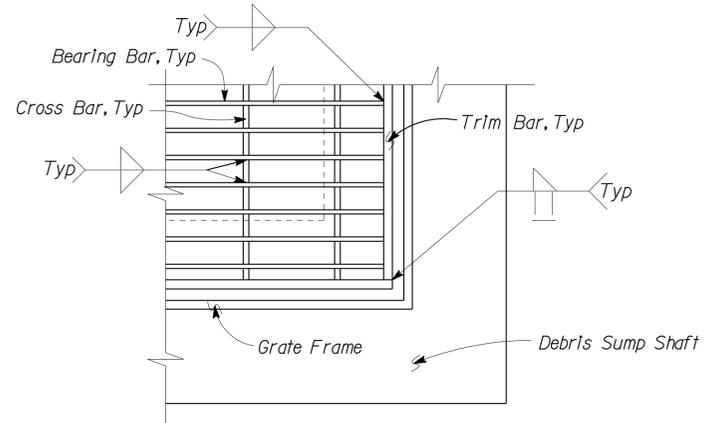
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1368	1414
<b>Bapat</b> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER <b>C. N. Bapat</b> No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



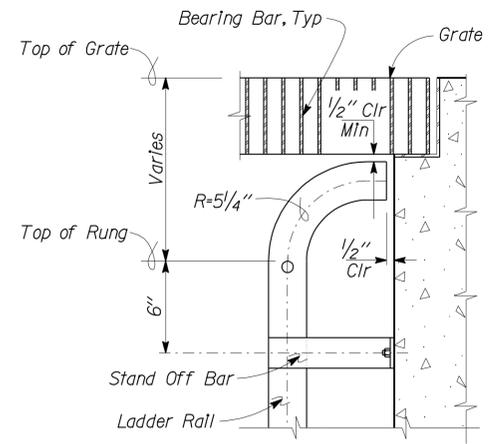
**1 DEBRIS SUMP GRATE PLAN**  
Scale 1/2" = 1' - 0"



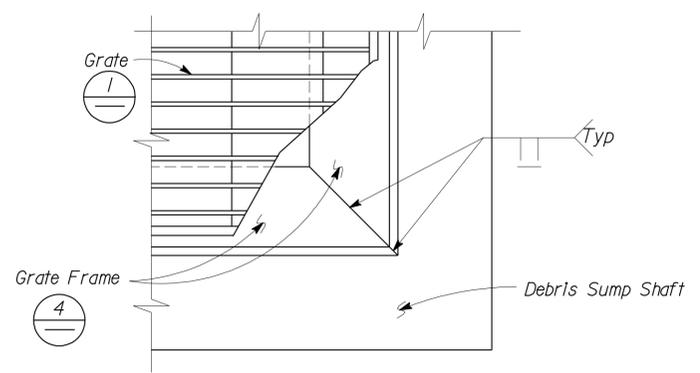
**5 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"



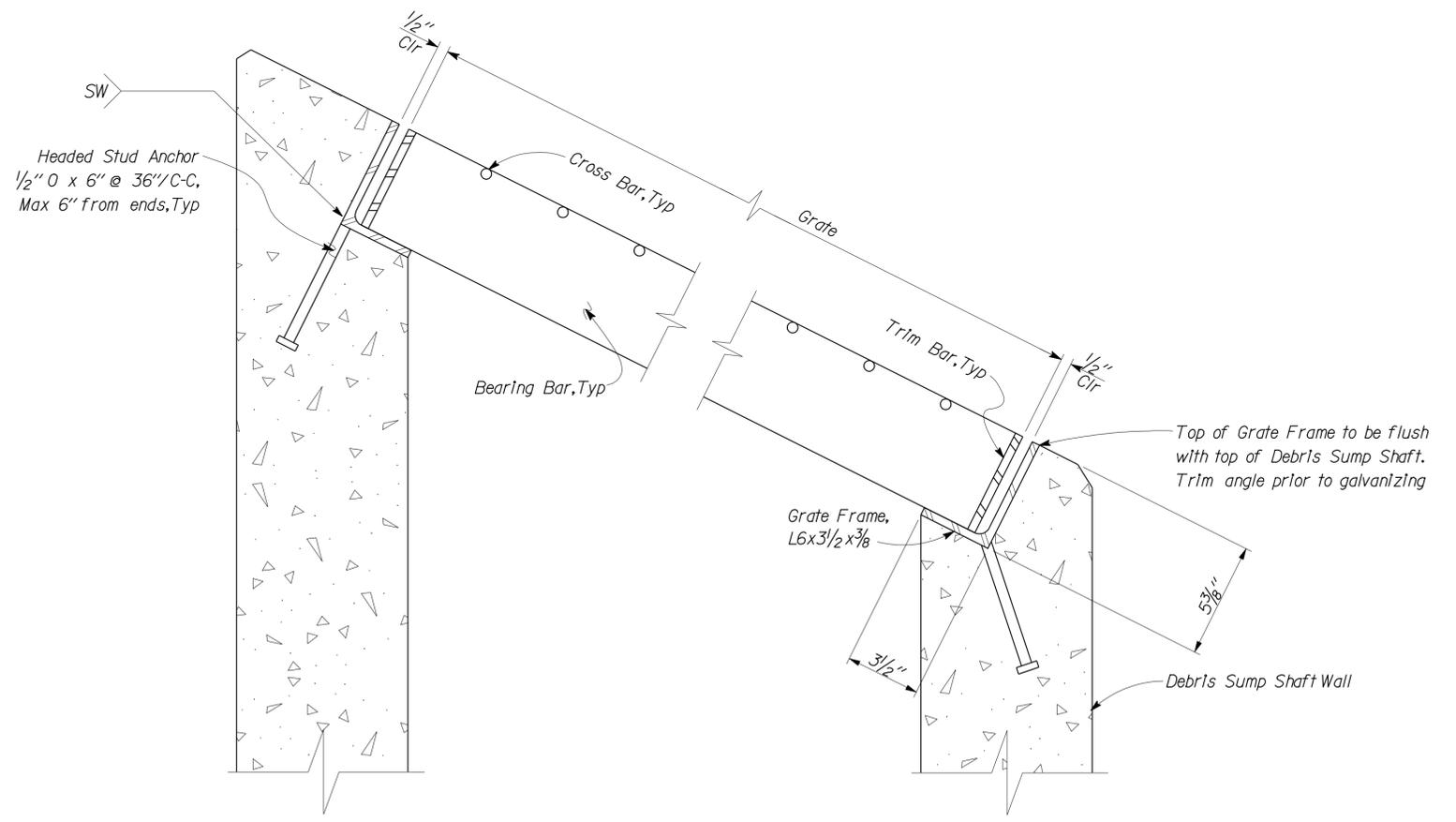
**4 GRATE DETAIL**  
Scale 3" = 1' - 0"



**2 LADDER AT ACCESS GRATE**  
Scale 2" = 1' - 0"



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



**6 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"

DESIGN	BY	CHECKED
DETAILS	BY	CHECKED
QUANTITIES	BY	CHECKED
	Chandra Bapat	Thomas Tong
	Daniel Harakh	Chandra Bapat

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

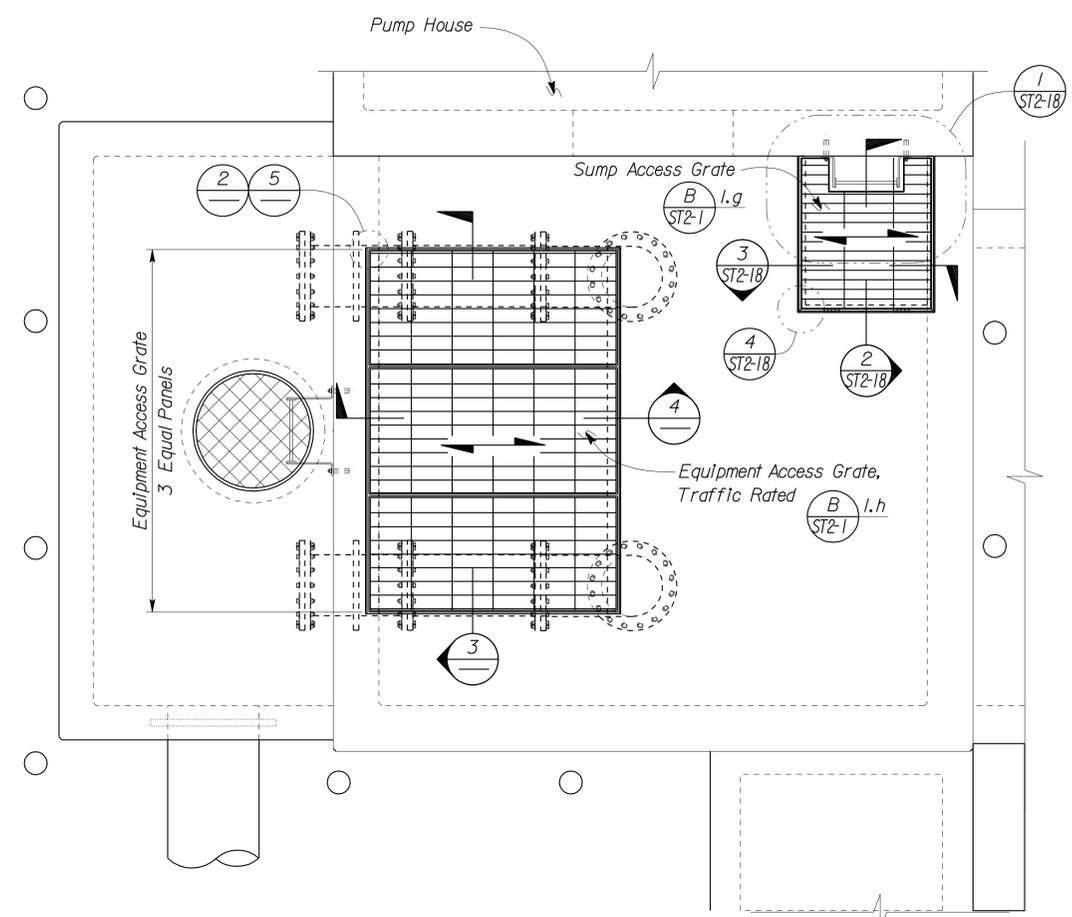
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.  
29-0120W  
POST MILE

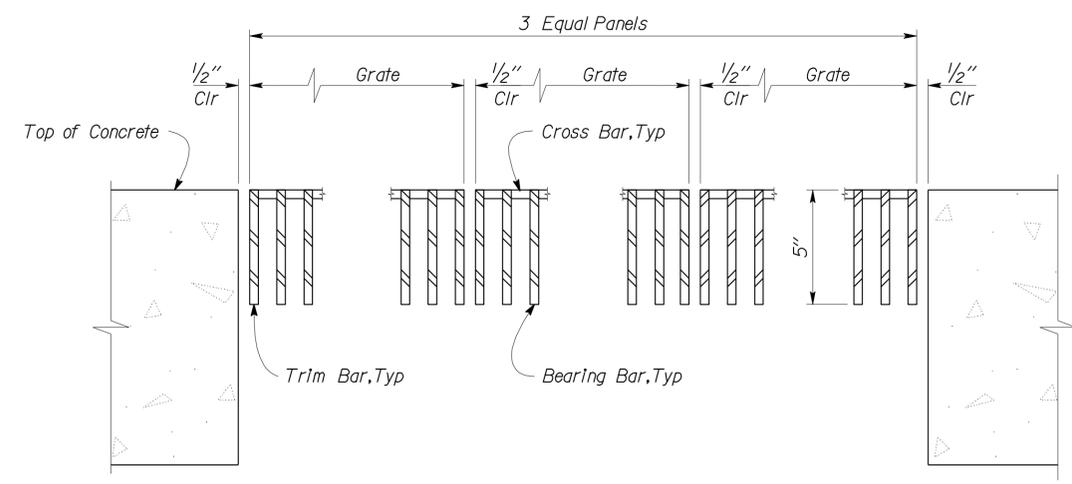
**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
RTE 26/99 Sep PUMPING PLANT  
DEBRIS SUMP GRATE DETAILS

SHEET OF  
**ST2-16**

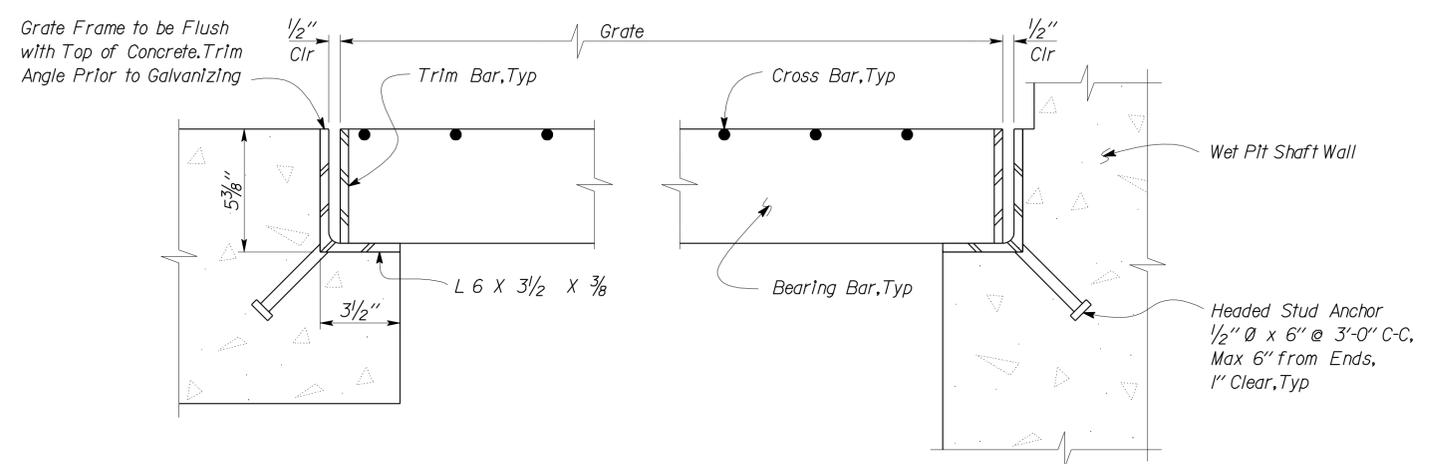
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1369	1414
			REGISTERED CIVIL ENGINEER DATE 10-21-11 PLANS APPROVAL DATE 3-26-12		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



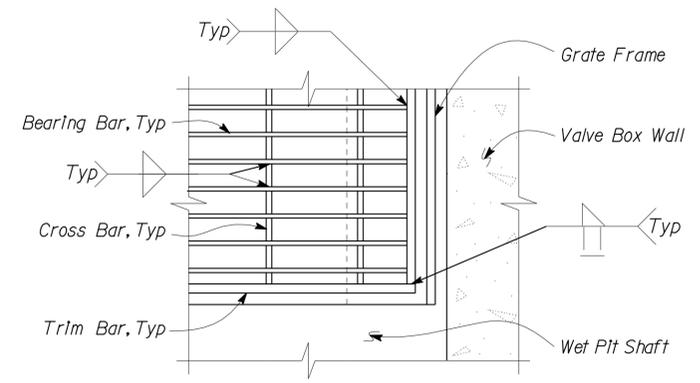
**1 EQUIPMENT ACCESS GRATE PLAN**  
Scale 1/2" = 1' - 0"



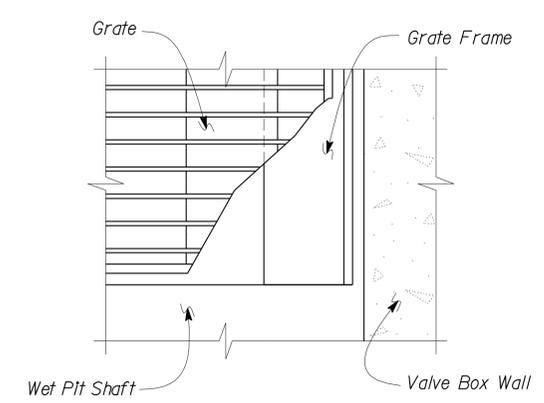
**3 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"



**4 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"



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



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

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

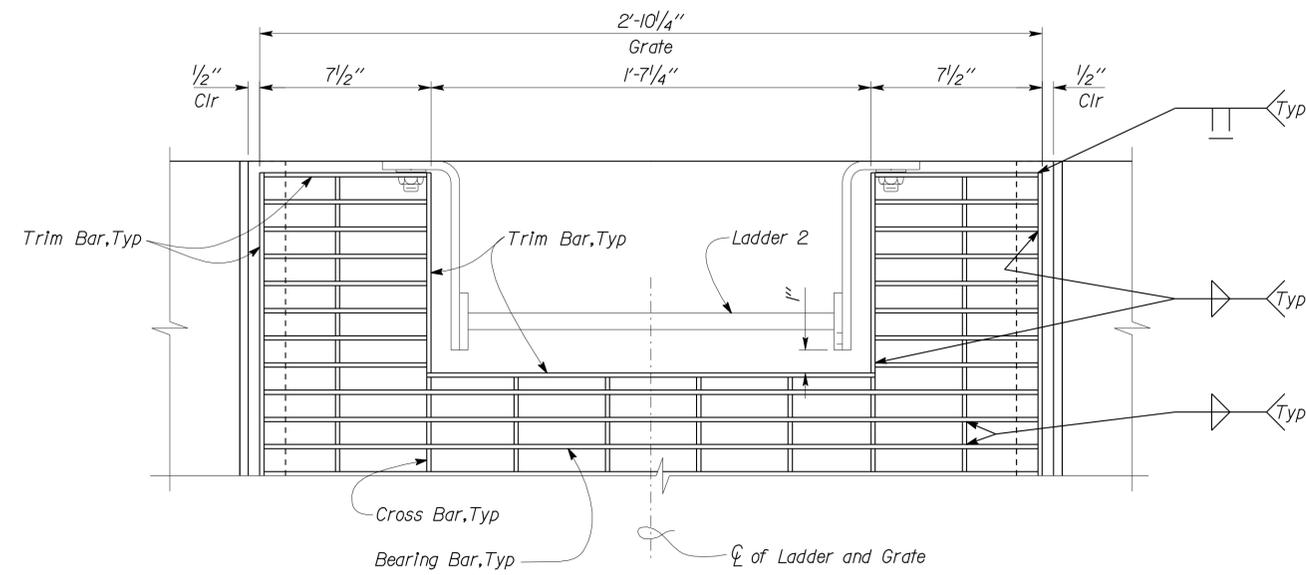
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 29-0120W  
POST MILE

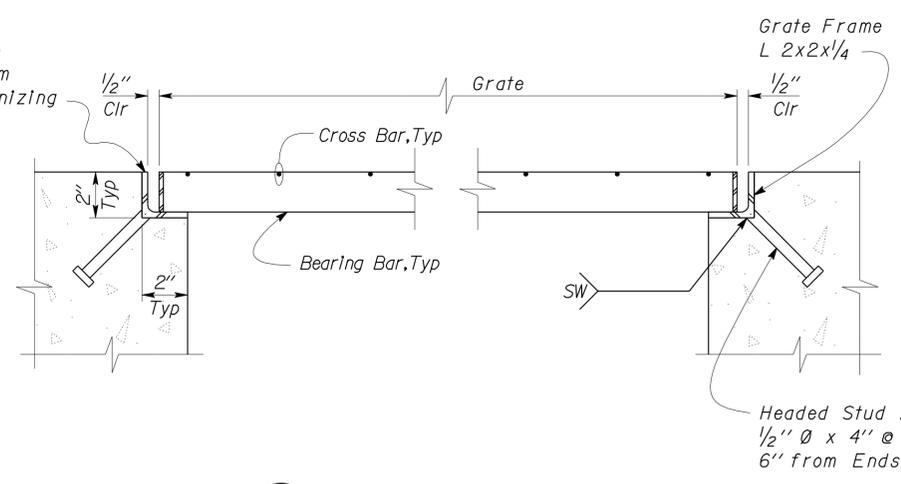
**EAST STOCKTON UP AND RTE 26 / 99 Sep PUMPING PLANTS**  
EQUIPMENT ACCESS GRATE DETAILS

SHEET OF **ST2-17**

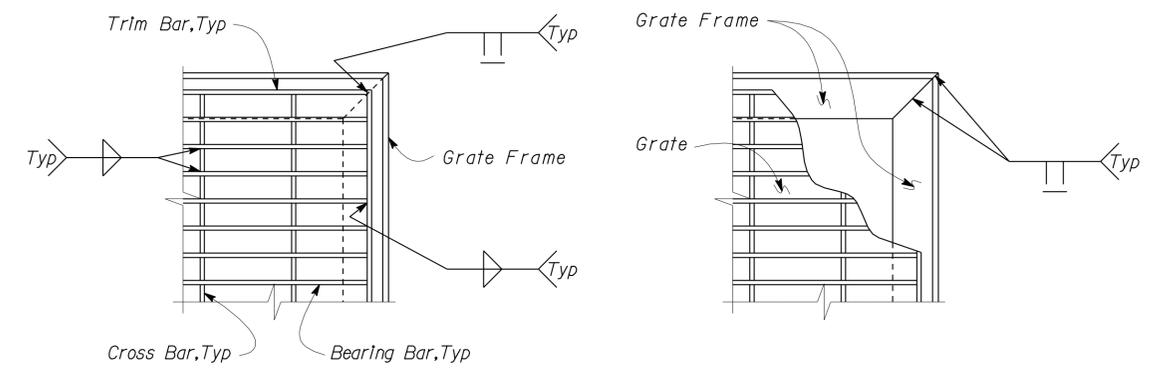
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1370	1414
<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 SUMP ACCESS GRATE DETAIL**  
Scale 3" = 1' - 0"

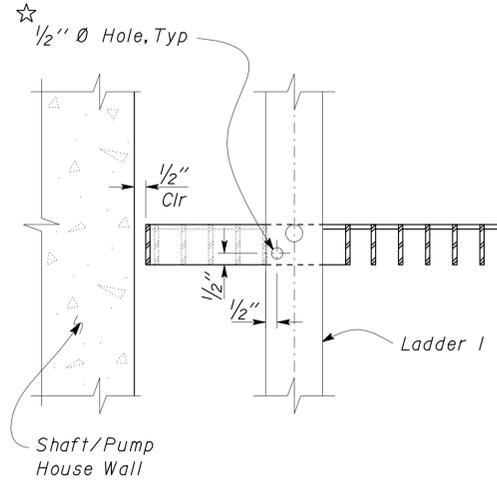


**3 GRATE AND FRAME SECTION**  
Scale 3" = 1' - 0"

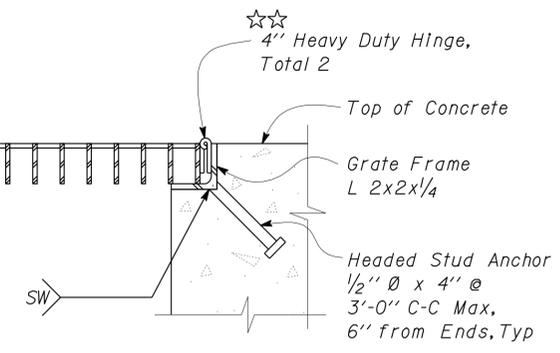


**4 GRATE AND FRAME DETAILS**  
Scale 3" = 1' - 0"

☆ Note:  
Provide 1/2" Ø Aligned Hole In Access Grate Trim Bar and Ladder Rail for Padlock



☆☆ Note:  
Fillet Weld Hinge to Grate Frame and Trim Bar on Three Sides of Hinge Leaf. Place Hinges 6" Max from Ends and Locate so that when Access Grate is Open It will lay on Slab without Placing Strain on Hinge



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

DESIGN BY Chandra Bapat	CHECKED BY Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>		SHEET OF <b>ST2-18</b>	
DETAILS BY Daniel Harakh	CHECKED BY Chandra Bapat		PROJECT NUMBER & PHASE 10000004091	POST MILE	RTE 26/99 Sep PUMPING PLANT	SUMP ACCESS GRATE DETAILS		
QUANTITIES BY	CHECKED		UNIT EA 3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	04-13-11		
TAEMWW Imperial Rev. 7/10		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3					

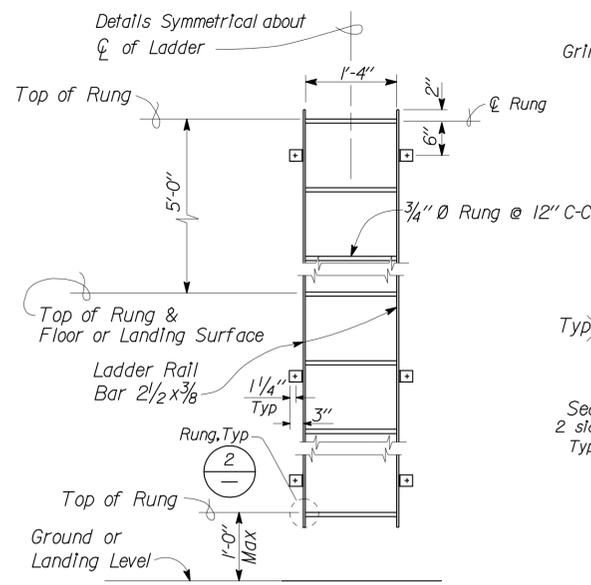
29-MAR-2012 17:46

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1371	1414

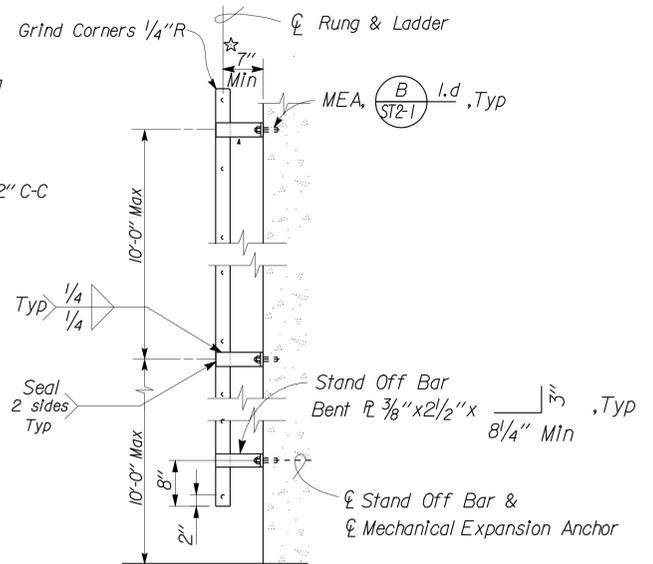
<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER	10-21-11 DATE
3-26-12 PLANS APPROVAL DATE	

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

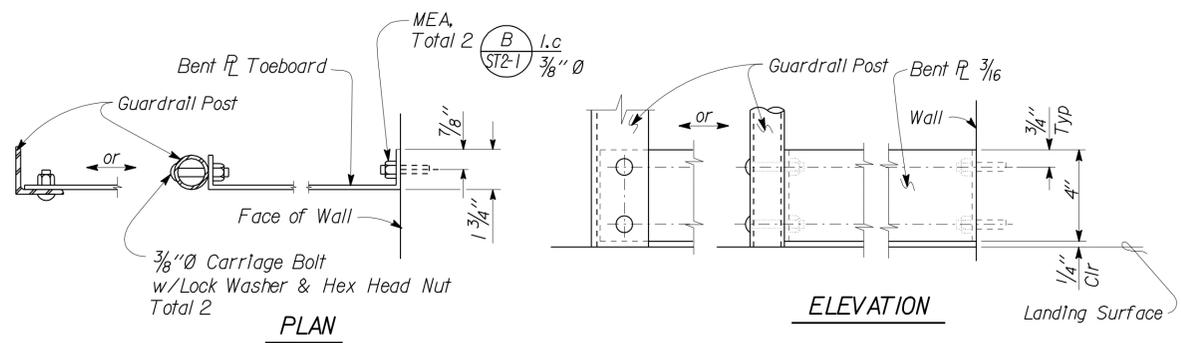


**1** LADDER DETAILS  
Scale 3/4" = 1'-0"

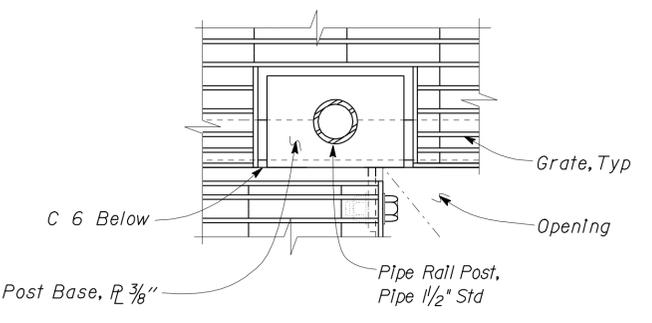
NOTE  
For Bottom of Ladder option see **3**



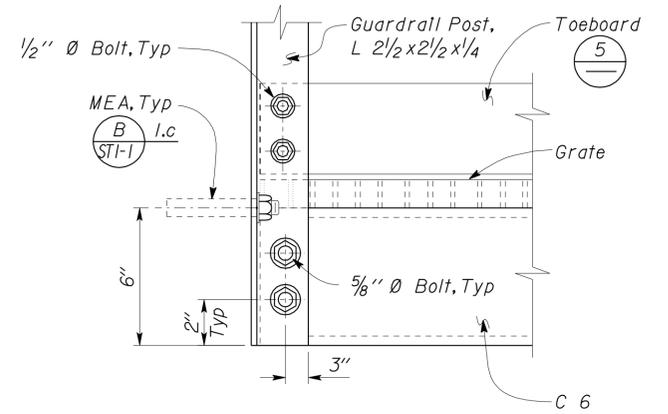
**2** SIDE VIEW



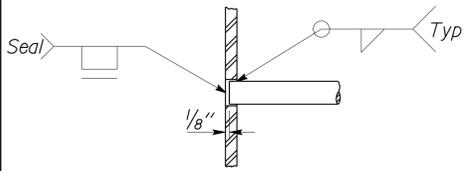
**5** TOEBOARD DETAIL  
Scale 1/4" = 1'-0"



**6** POST BASE ANCHORAGE  
Scale 3" = 1'-0"

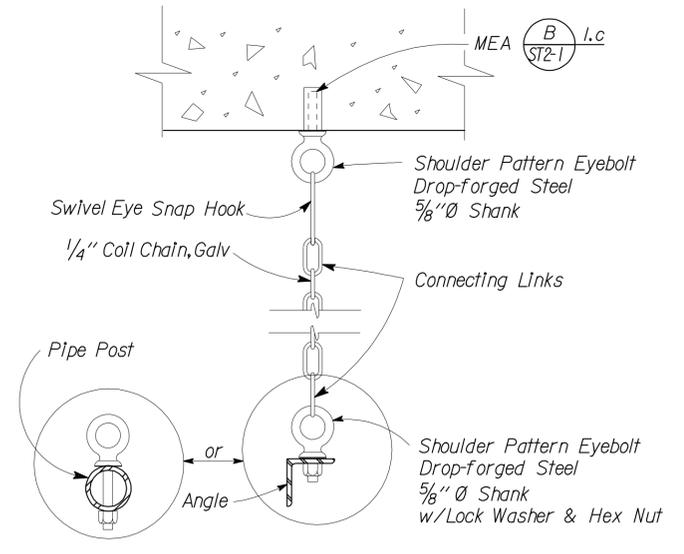


**8** GUARDRAIL POST CONNECTION  
Scale 3" = 1'-0"

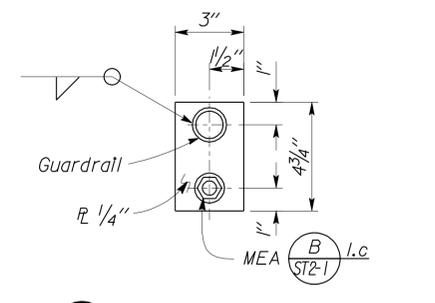


NOTE:  
Rung to be Placed 1/8"  
Inside of Ladder Rail

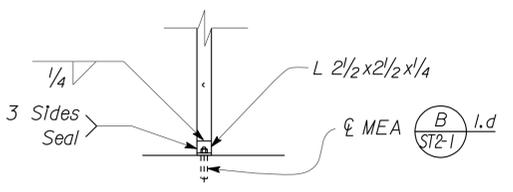
**2** RUNG DETAIL  
Scale 4" = 1'-0"



**4** CHAIN GUARD DETAIL  
No Scale



**7** RAIL TO WALL CONNECTION  
Scale 3" = 1'-0"

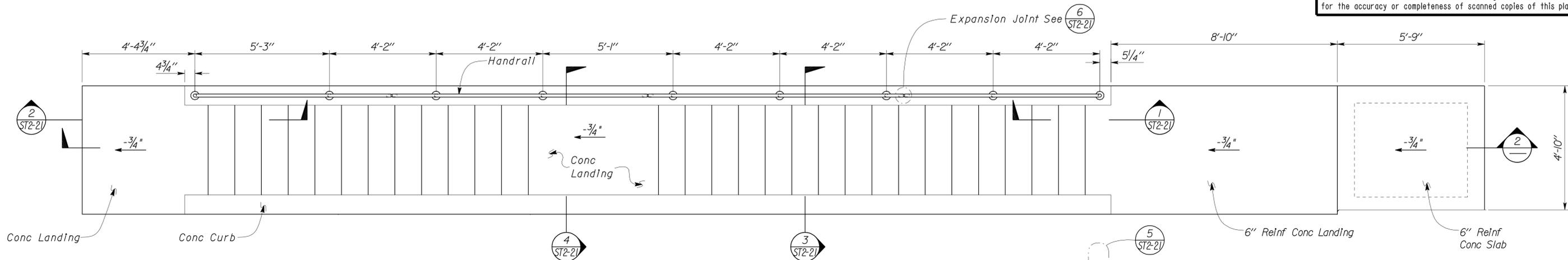


**3** BOTTOM OF LADDER OPTION  
Scale 3/4" = 1'-0"

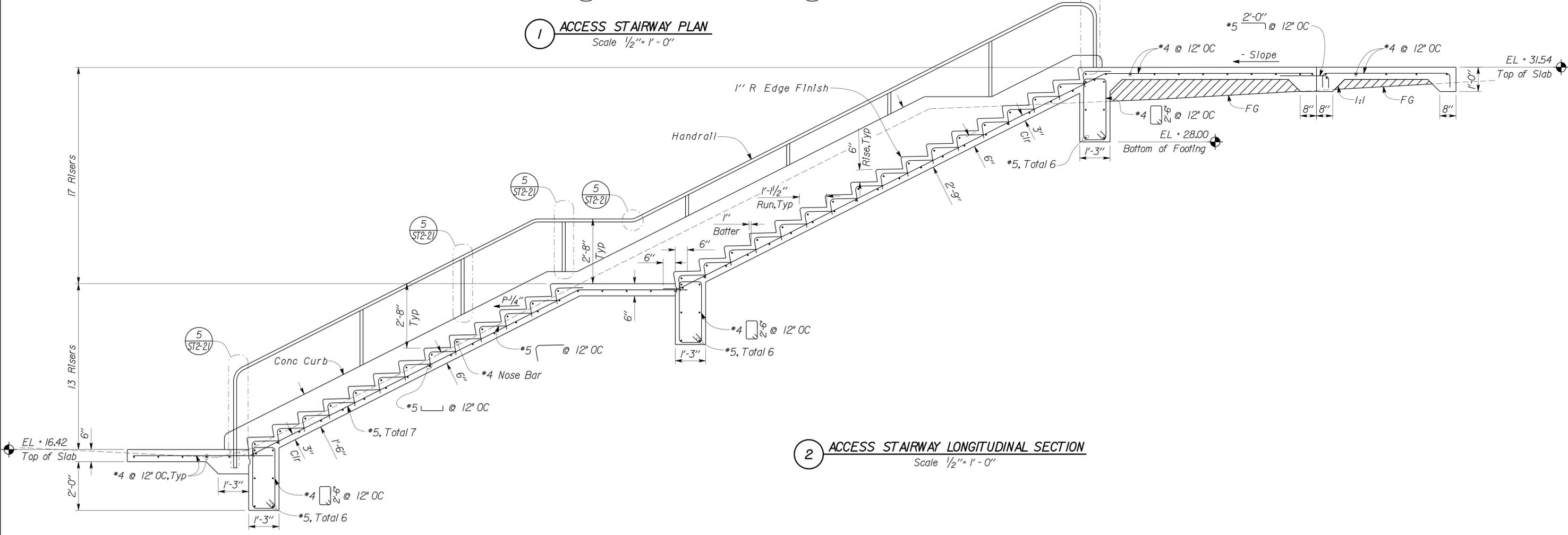
DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0120W	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET		
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat			POST MILE		RTE 26/99 Sep PUMPING PLANT	LADDER AND LANDING DETAILS	OF
QUANTITIES	BY	CHECKED			PROJECT NUMBER & PHASE EA 3A1001		3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-27-11 03-02-11 05-12-11

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3581 10000004091 EA 3A1001 D:\User\Projects\Dist\_10\1000000409\_Stockton\_pp\st2\_Rte\_26\_99\_SEP\_charter\_way\Expd\ite\_10-21-2011\st2\_19.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1372	1414
			10-21-11 REGISTERED CIVIL ENGINEER DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1 ACCESS STAIRWAY PLAN**  
Scale 1/2" = 1' - 0"



**2 ACCESS STAIRWAY LONGITUDINAL SECTION**  
Scale 1/2" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	29-0120W	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	ACCESS STAIRWAY PLAN
POST MILE	RTE 26/99 Sep PUMPING PLANT		

SHEET OF  
**ST2-20**

TAEMWW Imper-1al Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



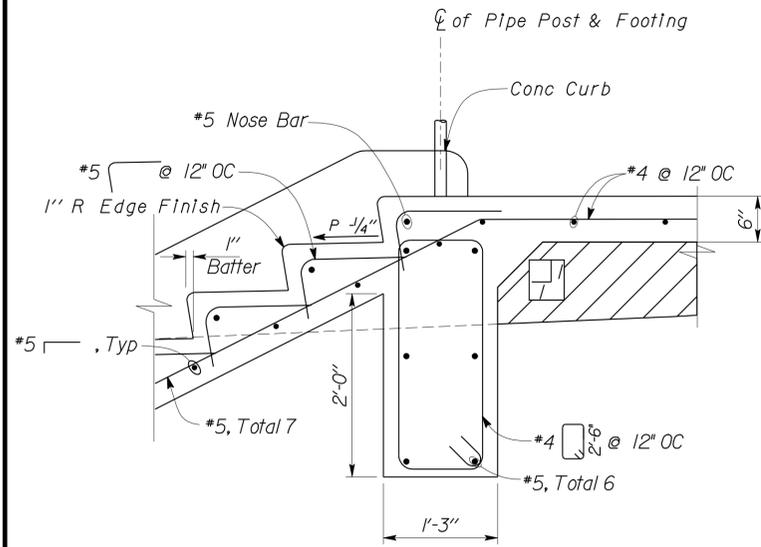
UNIT PROJECT NUMBER & PHASE  
3581 10000004091  
EA 3A1001

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
04-08-11   05-12-11   06-27-11   10-21-11		

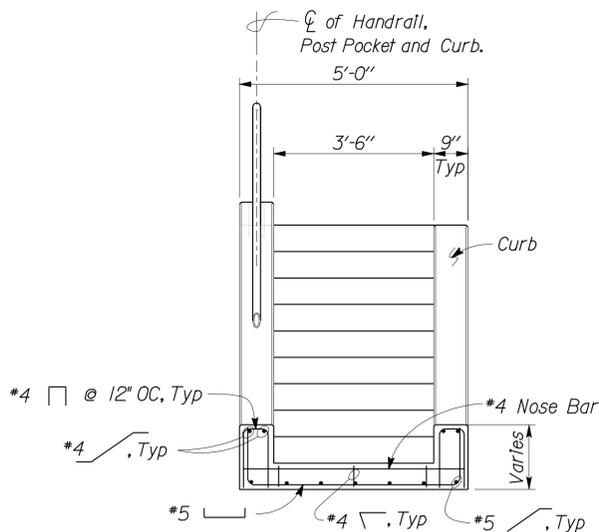
D:\User\Projects\Dist\_10\1000000409\_Stockton\_pp\st2\_Rte\_26\_99\_sep\_charter\_way\Expd1fe\_10-21-2011\st2\_20.dgn

30-MAR-2012 16:02

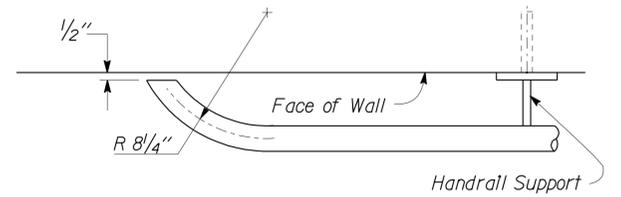
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1373	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



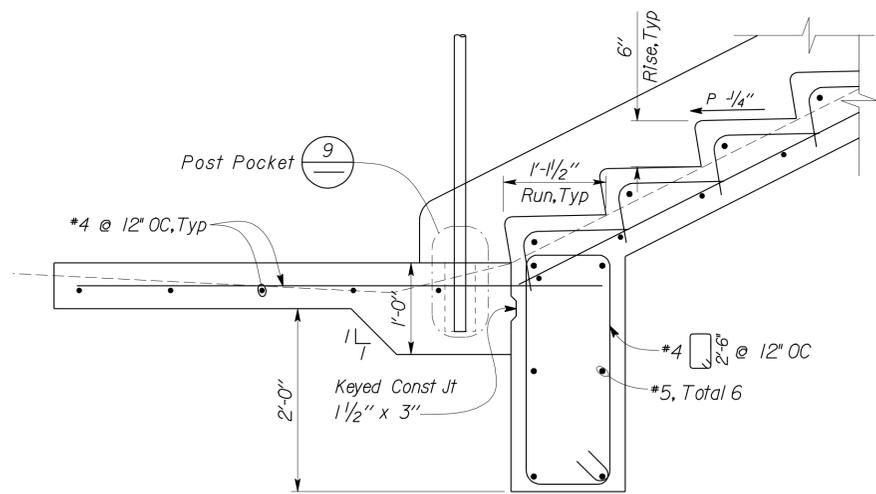
**1 TOP OF STAIRS SECTION**  
Scale 1" = 1'-0"



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

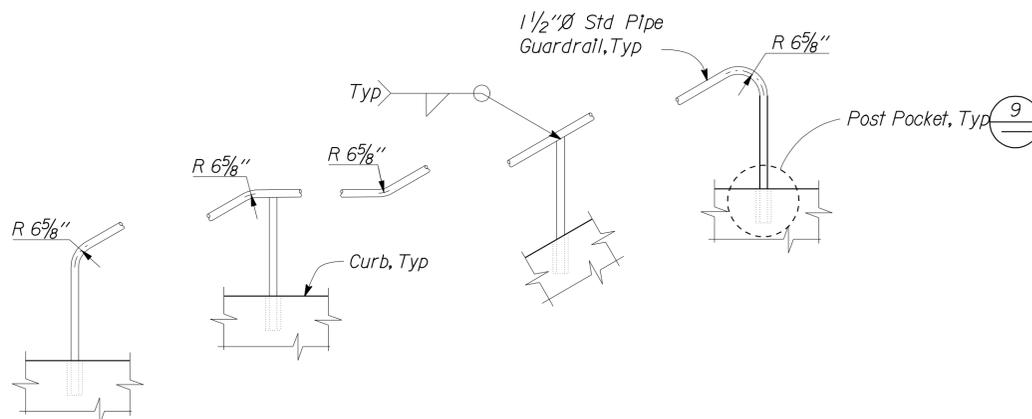


**7 HANDRAIL RETURN AT WALL**  
Scale 2" = 1'-0"

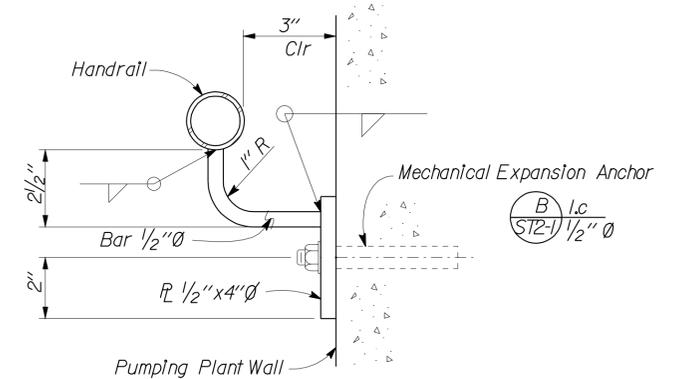


**2 BOTTOM OF STAIRS SECTION**  
Scale 1" = 1'-0"

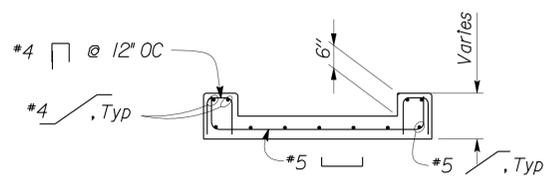
Note:  
For Reinf Not Noted  
See **1**



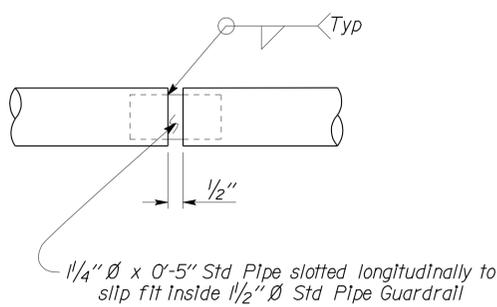
**5 ACCESS STAIRWAY RAILING DETAILS**  
Scale 1/2" = 1'-0"



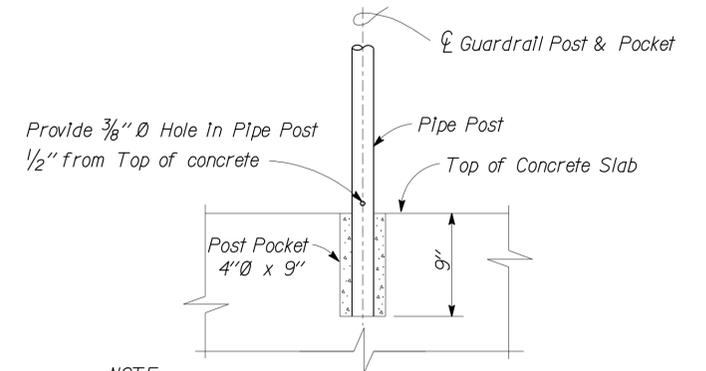
**8 HANDRAIL SUPPORT DETAIL**  
Scale 4" = 1'-0"



**3 STAIRWAY SECTION**  
Scale 1/2" = 1'-0"



**6 EXPANSION JOINT DETAIL @ 10'-0" MAX**  
Scale 4" = 1'-0"



NOTE  
Pack Post Pocket with Epoxy Grout, Typ

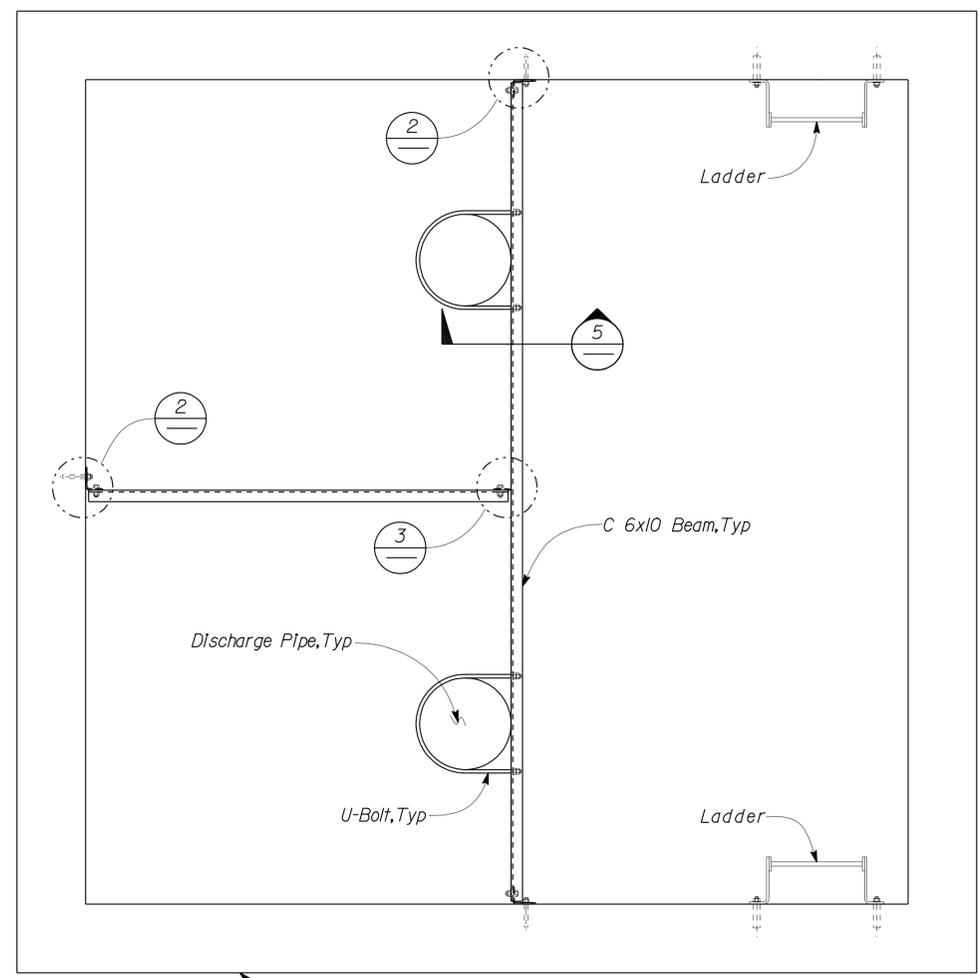
**9 POST POCKET DETAIL**  
Scale 1 1/2" = 1'-0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99          Sep PUMPING PLANTS</b>	SHEET ST2-21	
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE RTE 26/99 Sep PUMPING PLANT		STAIRWAY DETAILS	OF
QUANTITIES	BY	CHECKED						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE EA 3A1001	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 03-11-11 04-07-11 06-22-11 10-21-11	

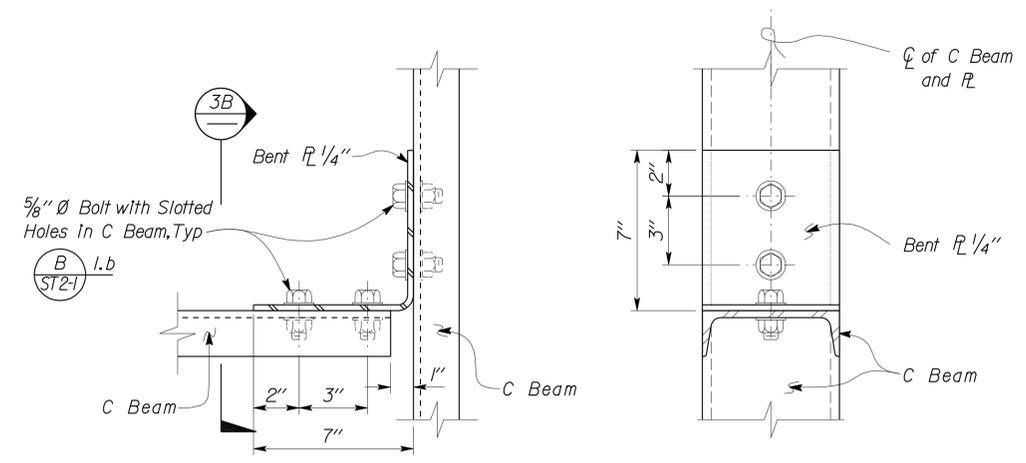
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1374	1414

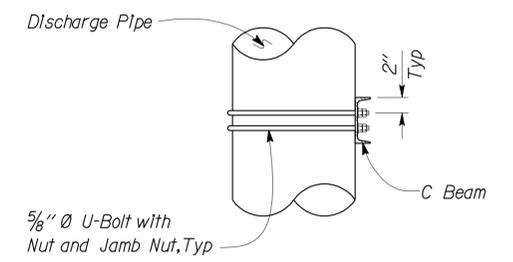
<i>N. Bapat</i> REGISTERED CIVIL ENGINEER	10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA
3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



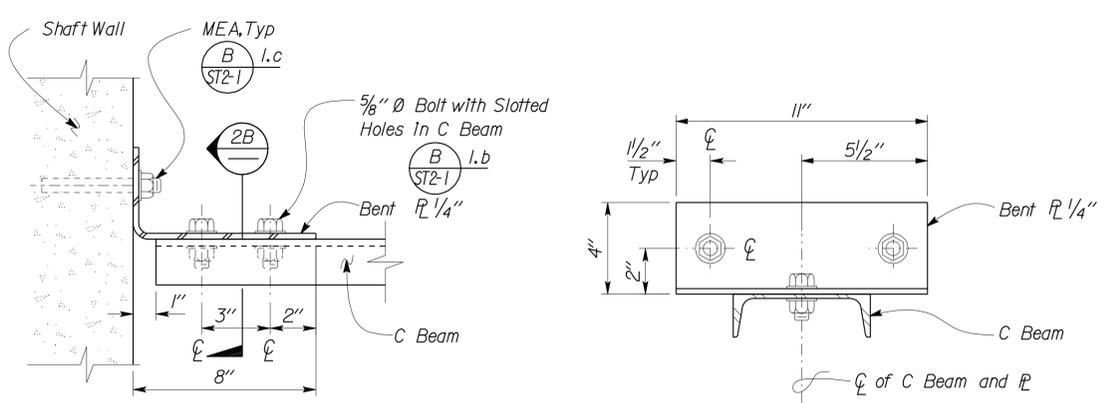
**1 DISCHARGE PIPE SUPPORT PLAN**  
Scale 3/4" = 1' - 0"



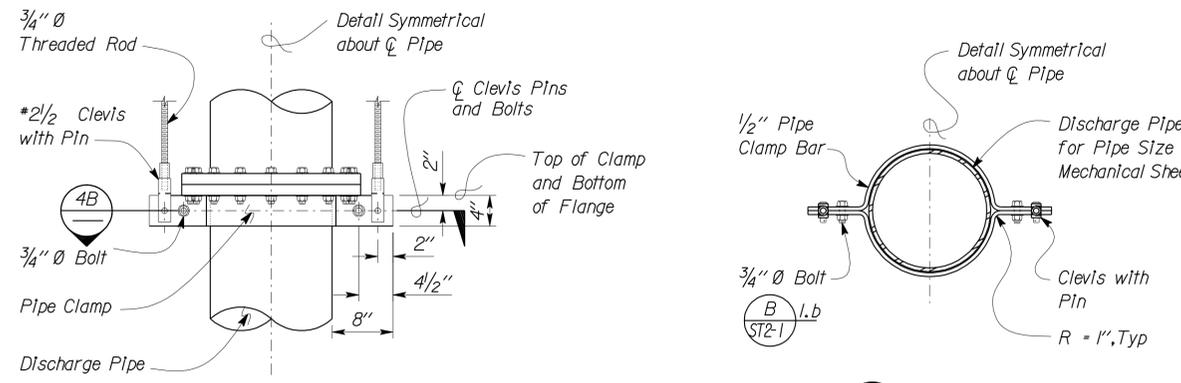
**3 C BEAM TO C BEAM CONNECTION**  
Scale 3" = 1' - 0"



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



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



**4 PIPE CLAMP DETAIL**  
Scale 1" = 1' - 0"

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat
QUANTITIES	BY	CHECKED

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

BRIDGE NO. 29-0120W	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS	SHEET
POST MILE RTE 26/99 Sep PUMPING PLANT		ST2-22
DISCHARGE PIPE SUPPORT DETAILS		

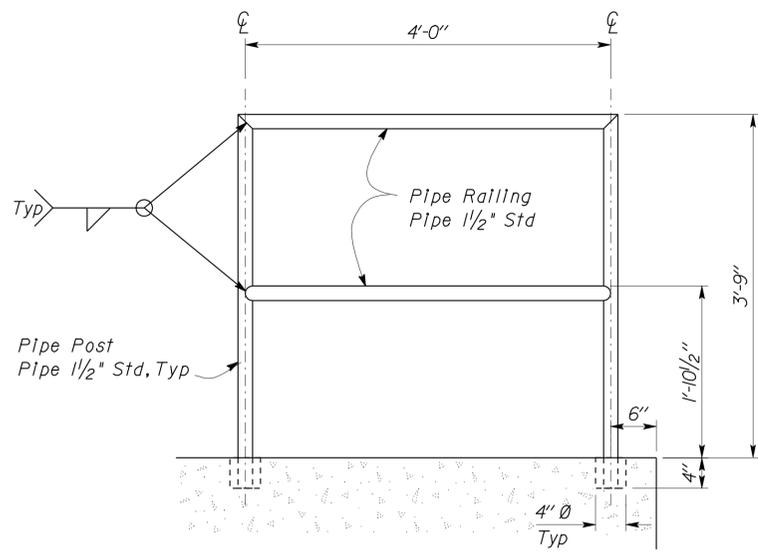
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



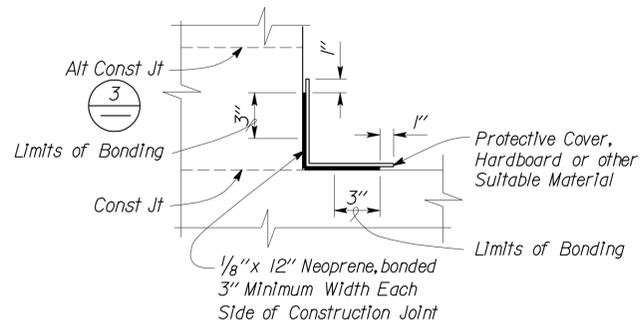
UNIT PROJECT NUMBER & PHASE	3581 10000004091 EA 3A1001
-----------------------------	----------------------------------

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	01-27-11 03-03-11 04-01-11	

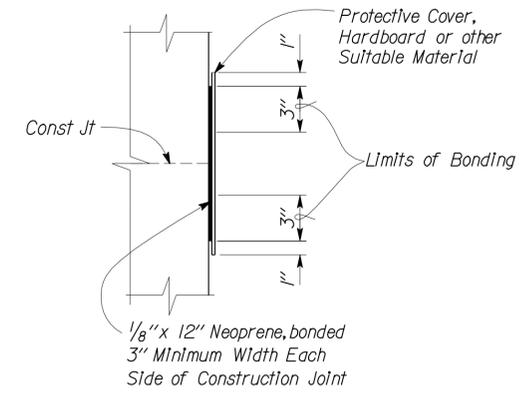
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1375	1414
<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



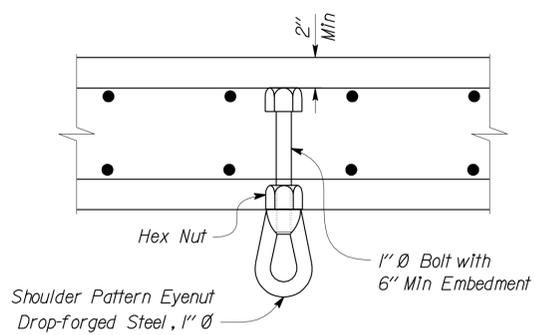
**1** LANDING 2 GUARDRAIL  
Scale 1" = 1'-0"



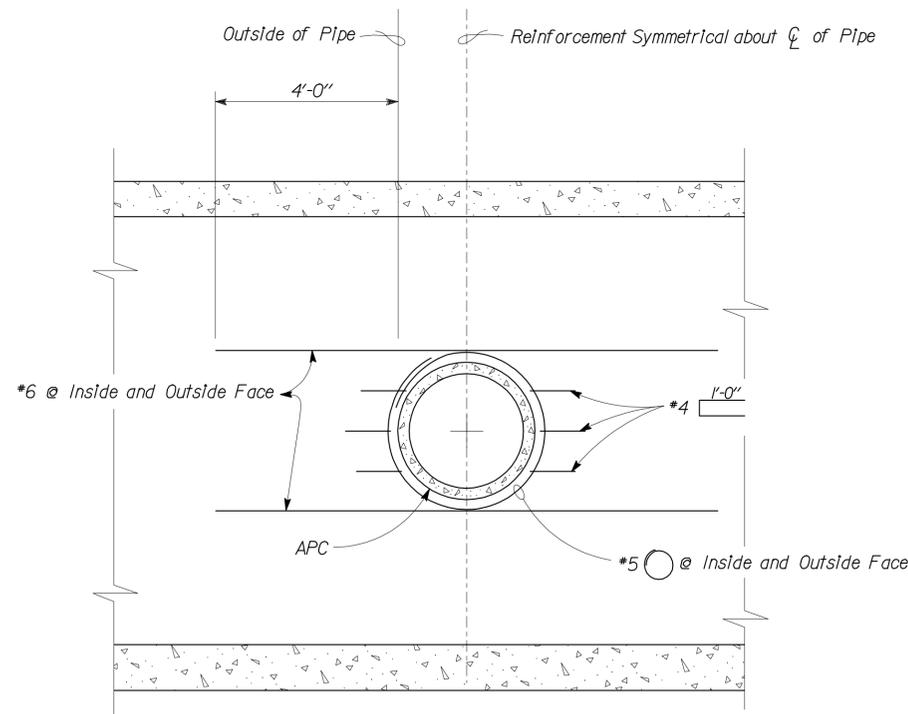
**2** WATERSTOP DETAIL  
No Scale



**3** WATERSTOP DETAIL  
No Scale



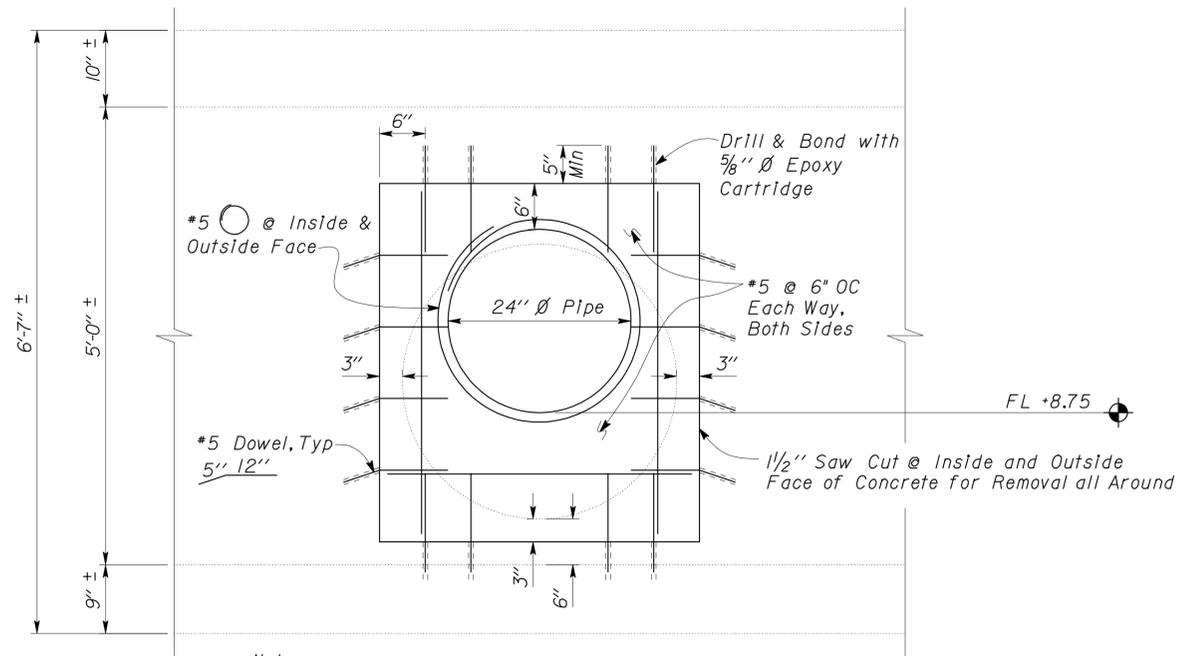
**4** PULLING LOOP DETAIL  
No Scale



**5** PIPE WALL PENETRATION  
No Scale

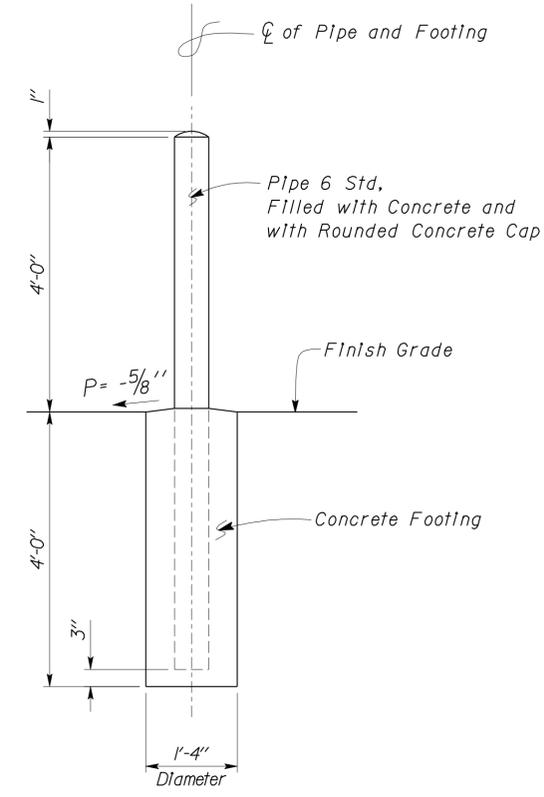
DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS		SHEET ST2-23	
	DETAILS	BY	Daniel Harakh	CHECKED			Chandra Bapat	POST MILE	RTE 26/99 Sep PUMPING PLANT		MISCELLANEOUS DETAILS
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
EA 3A1001							D:\User\Projects\Dist_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expd\ite_10-21-2011\st2_23.dgn				

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1376	1414
<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE		
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

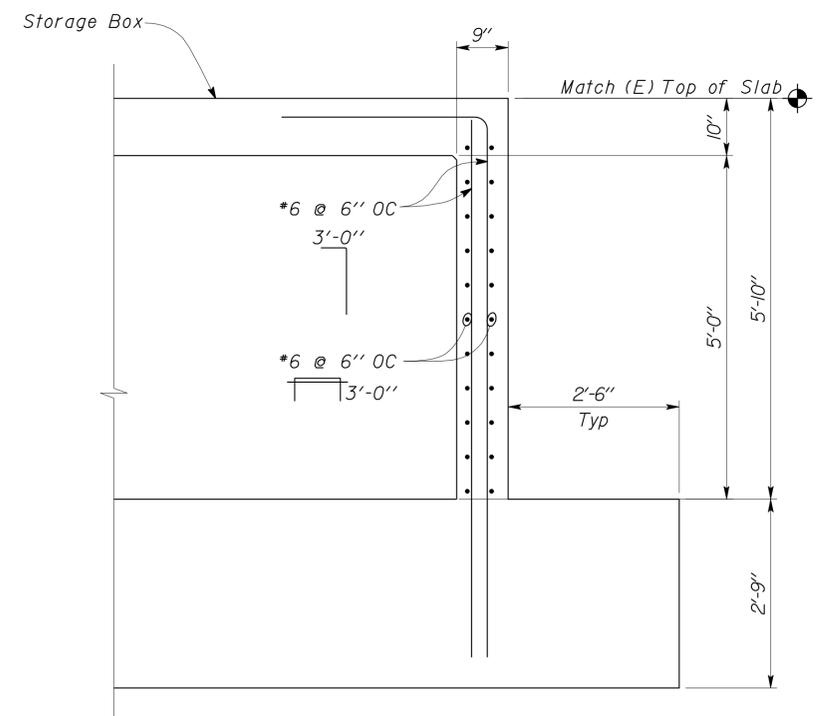


Note:  
For Additional Reinforcement, see Detail

**1 CONCRETE REMOVAL FOR PIPE REPLACEMENT**  
Scale 1" = 1'-0"



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



Note:  
All Reinforcement Not Shown  
For Clarity, See Detail

**3 END WALL SECTION**  
Scale 3/4" = 1'-0"

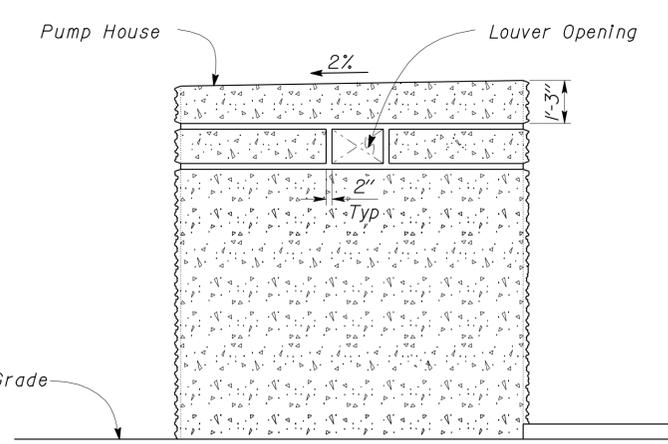
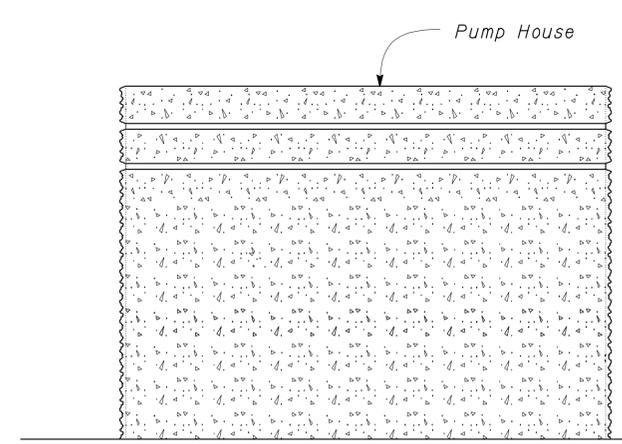
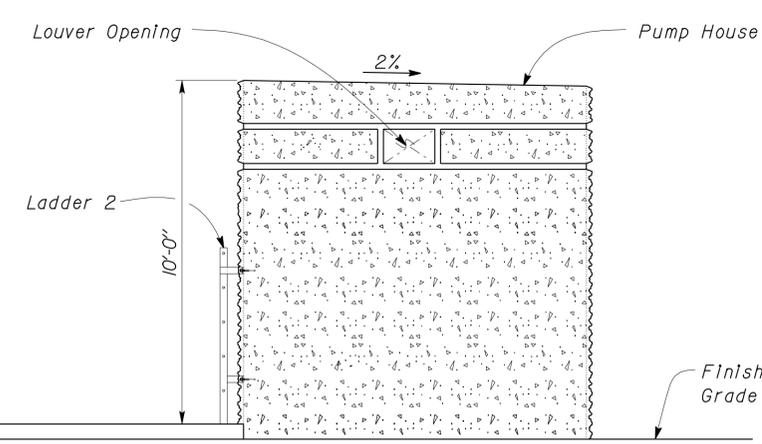
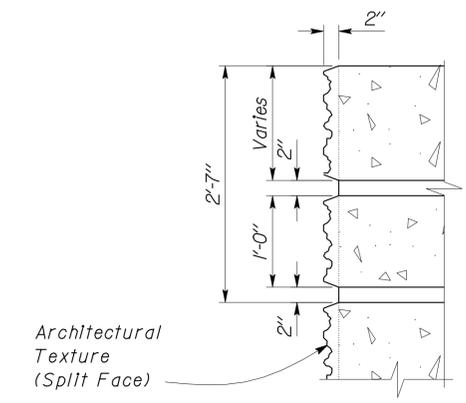
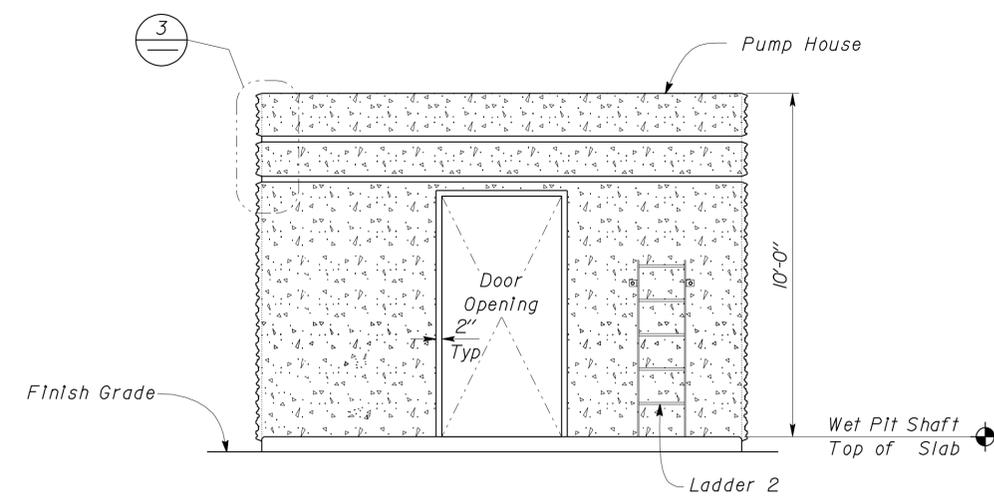
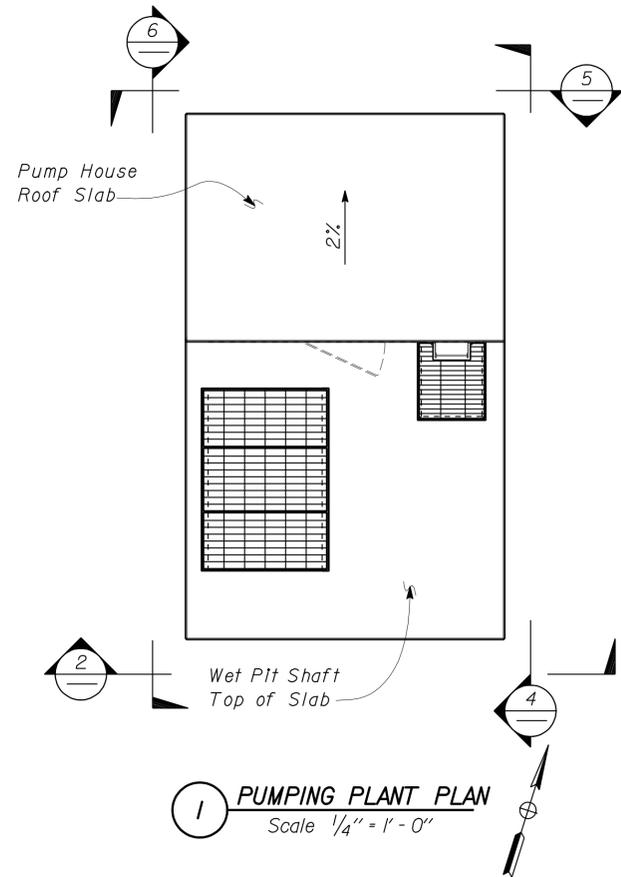
DESIGN BY <b>Chandra Bapat</b>	CHECKED BY <b>Thomas Tong</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>EAST STOCKTON UP AND RTE 26/99</b> <b>Sep PUMPING PLANTS</b>	SHEET OF <b>ST2-24</b>
				DETAILS BY <b>Daniel Harakh</b>		
QUANTITIES BY	CHECKED BY	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE EA 3A1001 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

29-MAR-2012 17:47

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1377	1414

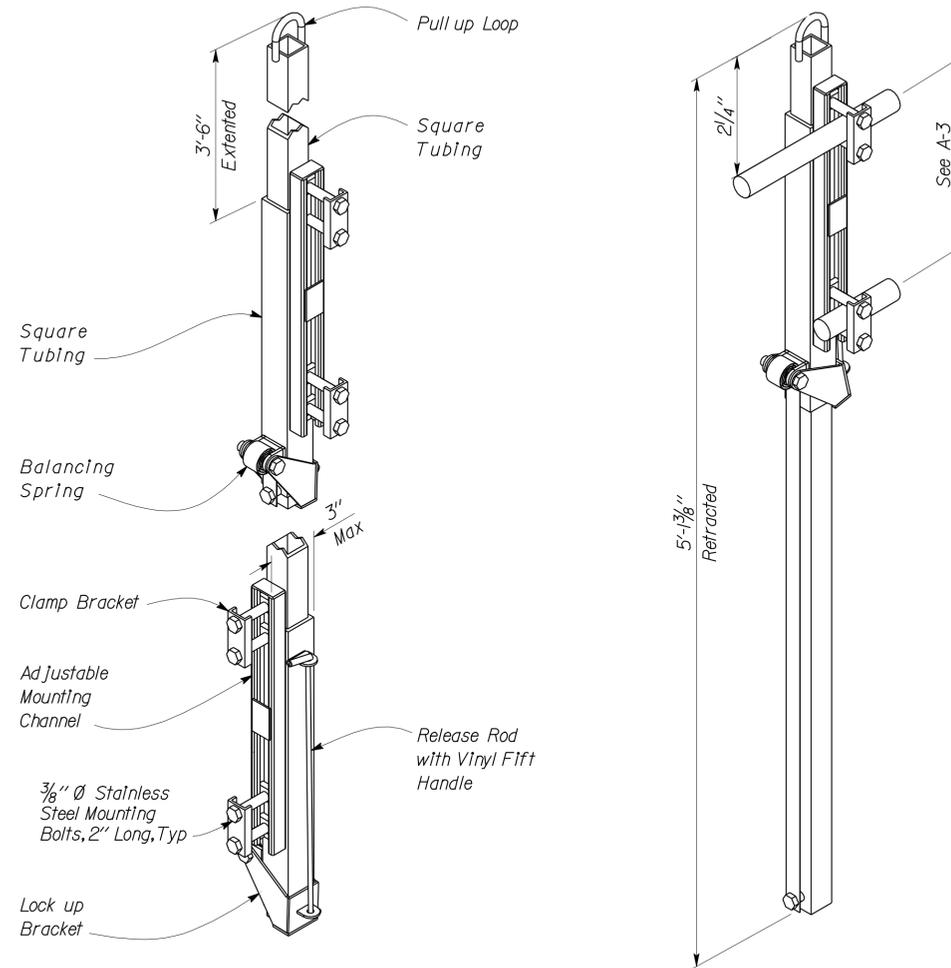
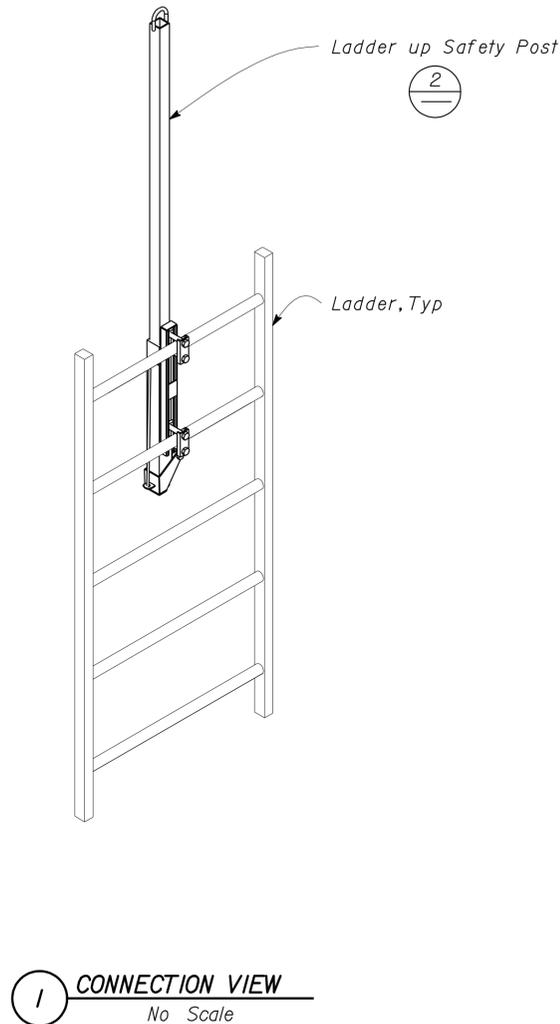
<i>C. N. Bapat</i> REGISTERED CIVIL ENGINEER	10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA
3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



DESIGN BY <b>Chandra Bapat</b>	CHECKED <b>Thomas Tong</b>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET <b>ST2-25</b>
				POST MILE		RTE 26/99 Sep PUMPING PLANT
DETAILS BY <b>Daniel Harakh</b>	CHECKED <b>Chandra Bapat</b>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED	0 1 2 3	EA 3A1001	05-11-11 10-21-11		

29-MAR-2012 17:47

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1378	1414
<i>Bapat</i> REGISTERED CIVIL ENGINEER			10-21-11 DATE	REGISTERED PROFESSIONAL ENGINEER C. N. Bapat No. 46493 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



- A Notes
- The ladder safety post shall be furnished completely assembled ready to mount on rear of ladder with clamp brackets on climbing side. Ladder must be structurally sound and securely anchored.
  - On hollow round rung ladders insert solid round bar (same length as rung) into the top two rungs to provide additional strength and prevent crushing of the rung when the ladder safety post is fastened.
  - Adjustable mounting fits ladders with rung spacing up to about 14" center to center.
  - Clamp bracket may be reversed to accommodate rung sizes of 3/4" to 1 1/4" with standard 2" bolt furnished. Larger rungs will require longer bolts.
  - The ladder safety post shall be steel and hot dipped galvanized.
  - Submit working drawings of ladder safety post for Engineer's approval.

DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99          Sep PUMPING PLANTS</b>	SHEET ST2-26		
DETAILS	BY Daniel Harakh	CHECKED Chandra Bapat			POST MILE		RTE 26/99 Sep PUMPING PLANT	LADDER SAFETY POST	OF
QUANTITIES	BY	CHECKED							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE EA 3A1001 10000004091	3581	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	06-27-11	
TAEMWW Imperial Rev. 7/10 D:\User\Projects\Dist_10\1000000409_Stockton_pp\st2_Rte_26_99_SEP_charter_way\Expedite_10-21-2011\st2_26.dgn									

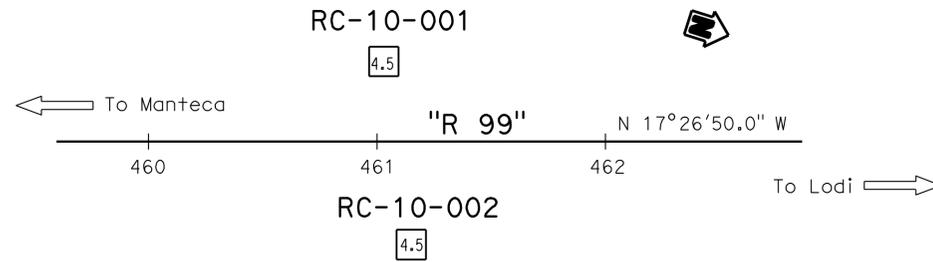
30-MAR-2012 14:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1379	1414

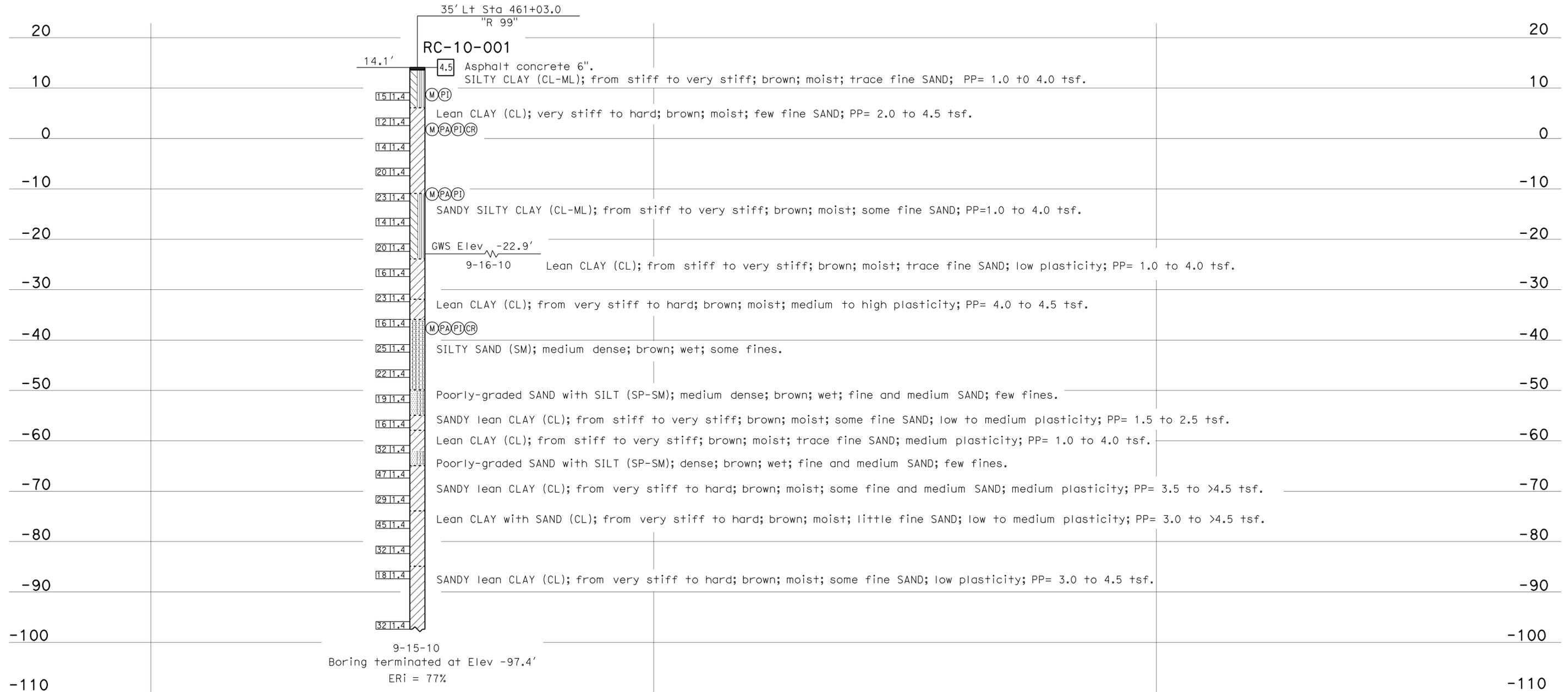
PROFESSIONAL GEOLOGIST  
 Joseph M. Kaump  
 No. 7837  
 Exp. 01-31-13  
 STATE OF CALIFORNIA  
 7-08-11  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

**BENCH MARK**

NW corner of existing Br. No. 29-0120G  
 56.70' Lt @ "R99" Line Sta 460+22.65  
 Elev= 35.09'.  
 As shown on Foundation Plan for Dr. Martin Luther King BLVD OC dated 5-12-11  
 Vertical Datum NGVD 29.



**PLAN**  
1" = 40'



**PROFILE**  
 Horiz: 1" = 10'  
 Vert: 1" = 10'

<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b>		<b>DIVISION OF ENGINEERING SERVICES</b>		<b>BRIDGE NO.</b>		<b>RTE 26/99 Sep PP MODIFICATION</b>	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 6/11		FIELD INVESTIGATION BY:		STRUCTURE DESIGN		29-0120W		<b>LOG OF TEST BORINGS 1 OF 4</b>	
NAME: R. Buehl		CHECKED BY:		T. Alderman		<b>DESIGN BRANCH X</b>		POST MILE			
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643 PROJECT NUMBER & PHASE: 10000004091		CONTRACT NO.: 10-3A1001		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
								REVISION DATES		SHEET OF	
								07-07-11 07-08-11		X X	

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 15:29

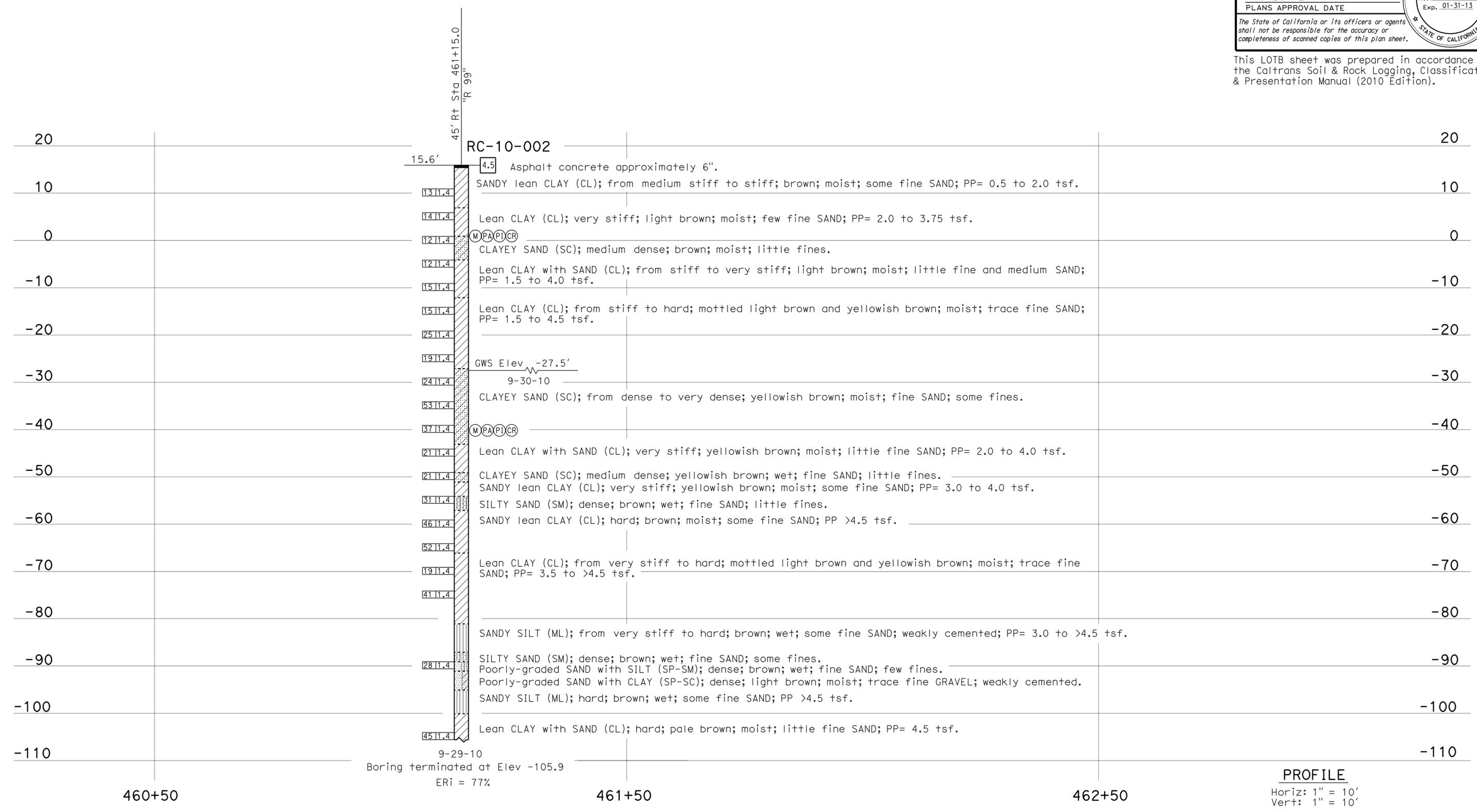
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1380	1414

PROFESSIONAL GEOLOGIST  
 Joseph M. Kaump  
 No. 7837  
 Exp. 01-31-13  
 STATE OF CALIFORNIA

7-08-11  
 3-26-12  
 PLANS APPROVAL DATE

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

FOR PLAN VIEW, SEE  
"LOG OF TEST BORINGS 1 OF 4"



<b>ENGINEERING SERVICES</b>		<b>MATERIALS AND GEOTECHNICAL SERVICES</b>		<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH <b>X</b>		BRIDGE NO. 29-0120W		<b>RTE 26/99 Sep PP MODIFICATION</b>	
FUNCTIONAL SUPERVISOR NAME: R. Buehl		DRAWN BY: F. Nguyen 6/11 CHECKED BY:		FIELD INVESTIGATION BY: T. Alderman		PROJECT NUMBER & PHASE: 10000004091		POST MILE		<b>LOG OF TEST BORINGS 2 OF 4</b>	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3643 CONTRACT NO.: 10-3A1001		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 07-08-11 07-08-11	
										SHEET	OF
										X	X

FILE => sf\_Log02\_of\_04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1 15.0/18.6	1381	1414

*Joseph M Kaump*  
 PROFESSIONAL GEOLOGIST 7-7-11  
 3-26-12  
 PLANS APPROVAL DATE

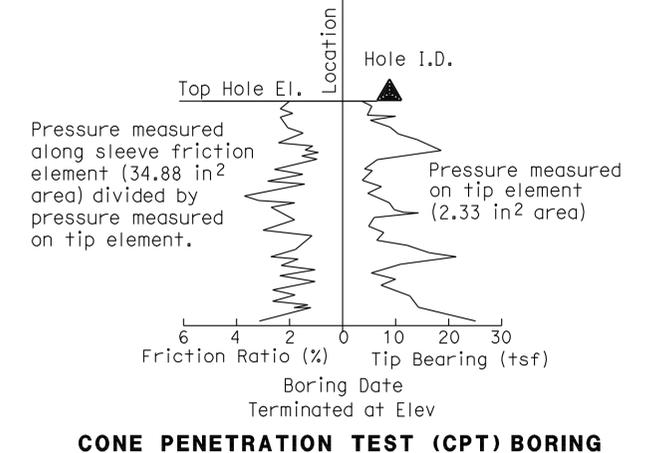
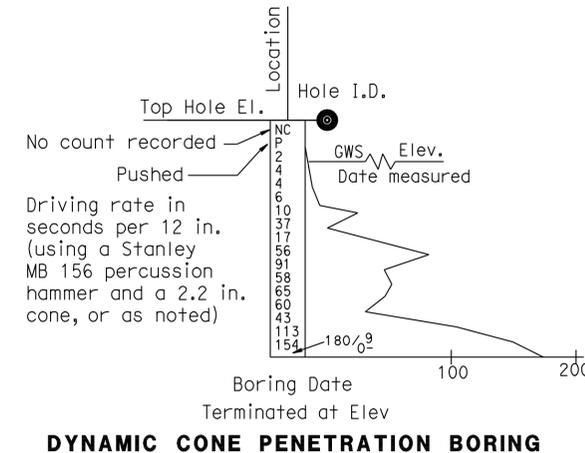
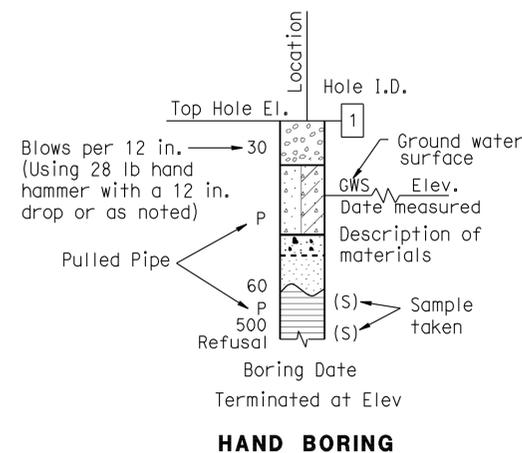
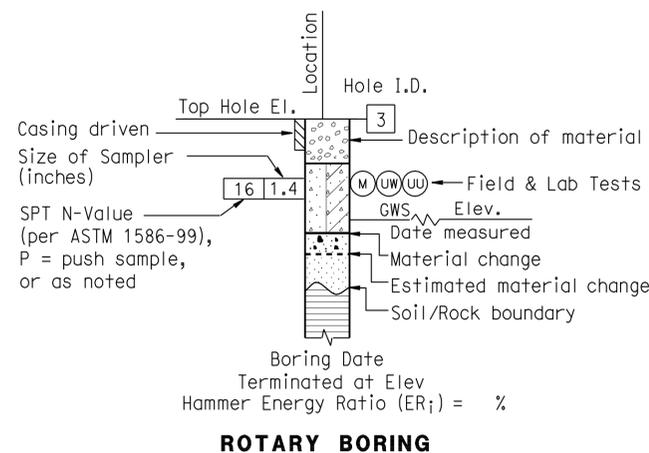
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

Note: Size in inches.

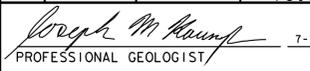
CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2

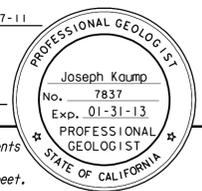


ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. 29-0120W	RTE 26/99 Sep PP MODIFICATION LOG OF TEST BORINGS 3 OF 4	
	PREPARED BY: F. Nguyen 6/11			POST MILE		
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3643 PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF X X

FILE => sf\_Log03\_of\_04.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1382	1414

  
 PROFESSIONAL GEOLOGIST  
 3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



GROUP SYMBOLS AND NAMES					
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		CL		Lean CLAY
	Well-graded GRAVEL with SAND				Lean CLAY with SAND
	Poorly-graded GRAVEL		CL-ML		Lean CLAY with GRAVEL
	Poorly-graded GRAVEL with SAND				SANDY lean CLAY
	Well-graded GRAVEL with SILT		ML		SANDY lean CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND				GRAVELLY lean CLAY
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		OL		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SILTY CLAY
	Poorly-graded GRAVEL with SILT		OL		ORGANIC lean CLAY
	Poorly-graded GRAVEL with SILT and SAND				ORGANIC lean CLAY with SAND
	Poorly-graded GRAVEL with CLAY (or SILTY CLAY)		OL		ORGANIC lean CLAY with GRAVEL
	Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)				SANDY ORGANIC lean CLAY
	SILTY GRAVEL		OL		SANDY ORGANIC lean CLAY with GRAVEL
	SILTY GRAVEL with SAND				GRAVELLY ORGANIC lean CLAY
	CLAYEY GRAVEL		CH		GRAVELLY ORGANIC lean CLAY with SAND
	CLAYEY GRAVEL with SAND				Fat CLAY
	SILTY, CLAYEY GRAVEL		MH		Fat CLAY with SAND
	SILTY, CLAYEY GRAVEL with SAND				Fat CLAY with GRAVEL
	Well-graded SAND		OH		SANDY fat CLAY
	Well-graded SAND with GRAVEL				SANDY fat CLAY with GRAVEL
	Poorly-graded SAND		OH		GRAVELLY fat CLAY
	Poorly-graded SAND with GRAVEL				GRAVELLY fat CLAY with SAND
	Well-graded SAND with SILT		OH		ORGANIC elastic SILT
	Well-graded SAND with SILT and GRAVEL				ORGANIC elastic SILT with SAND
	Well-graded SAND with CLAY (or SILTY CLAY)		OH		ORGANIC elastic SILT with GRAVEL
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				SANDY ORGANIC elastic SILT
	Poorly-graded SAND with SILT		OL/OH		SANDY ORGANIC elastic SILT with GRAVEL
	Poorly-graded SAND with SILT and GRAVEL				GRAVELLY ORGANIC elastic SILT
	Poorly-graded SAND with CLAY (or SILTY CLAY)		OL/OH		GRAVELLY ORGANIC elastic SILT with SAND
	Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)				ORGANIC SOIL
	SILTY SAND		OL/OH		ORGANIC SOIL with SAND
	SILTY SAND with GRAVEL				ORGANIC SOIL with GRAVEL
	CLAYEY SAND		OL/OH		SANDY ORGANIC SOIL
	CLAYEY SAND with GRAVEL				SANDY ORGANIC SOIL with GRAVEL
	SILTY, CLAYEY SAND				GRAVELLY ORGANIC SOIL
	SILTY, CLAYEY SAND with GRAVEL				GRAVELLY ORGANIC SOIL with SAND
	PEAT				
	COBBLES				
	COBBLES and BOULDERS				
	BOULDERS				

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(UC)	Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N <sub>60</sub> (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

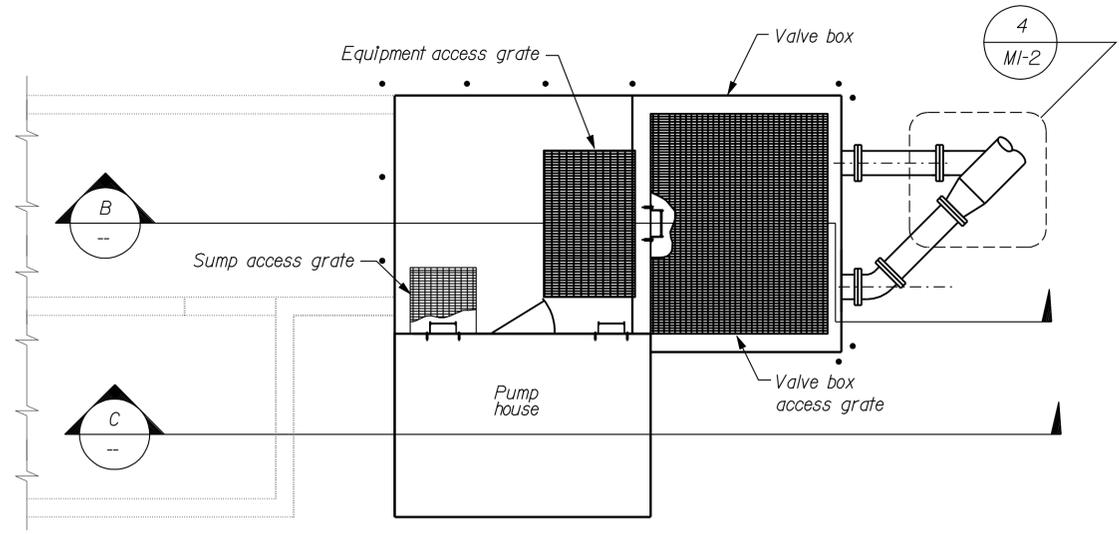
MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

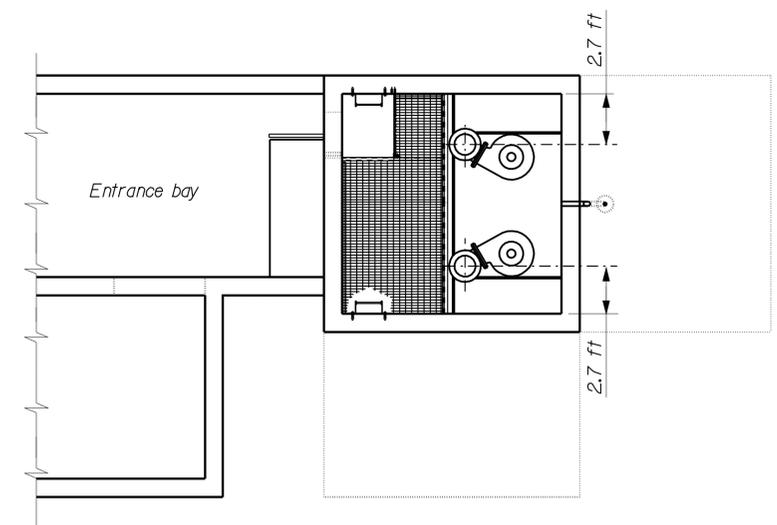
PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. 29-0120W	RTE 26/99 Sep PP MODIFICATION
				POST MILE	
PREPARED BY: F. Nguyen 6/11		UNIT: 3643	PROJECT NUMBER & PHASE: 10000004091	CONTRACT NO.: 10-3A1001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	FILE => sf_Log04_of_04.dgn	REVISION DATES	SHEET OF X X

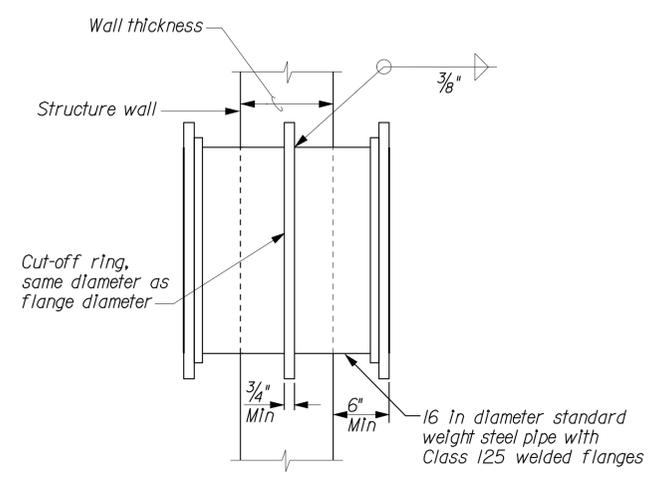
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1383	1414
APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 08-04-11				REGISTERED ENGINEER-MECHANICAL DATE 08-24-11 3-26-12 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	
					



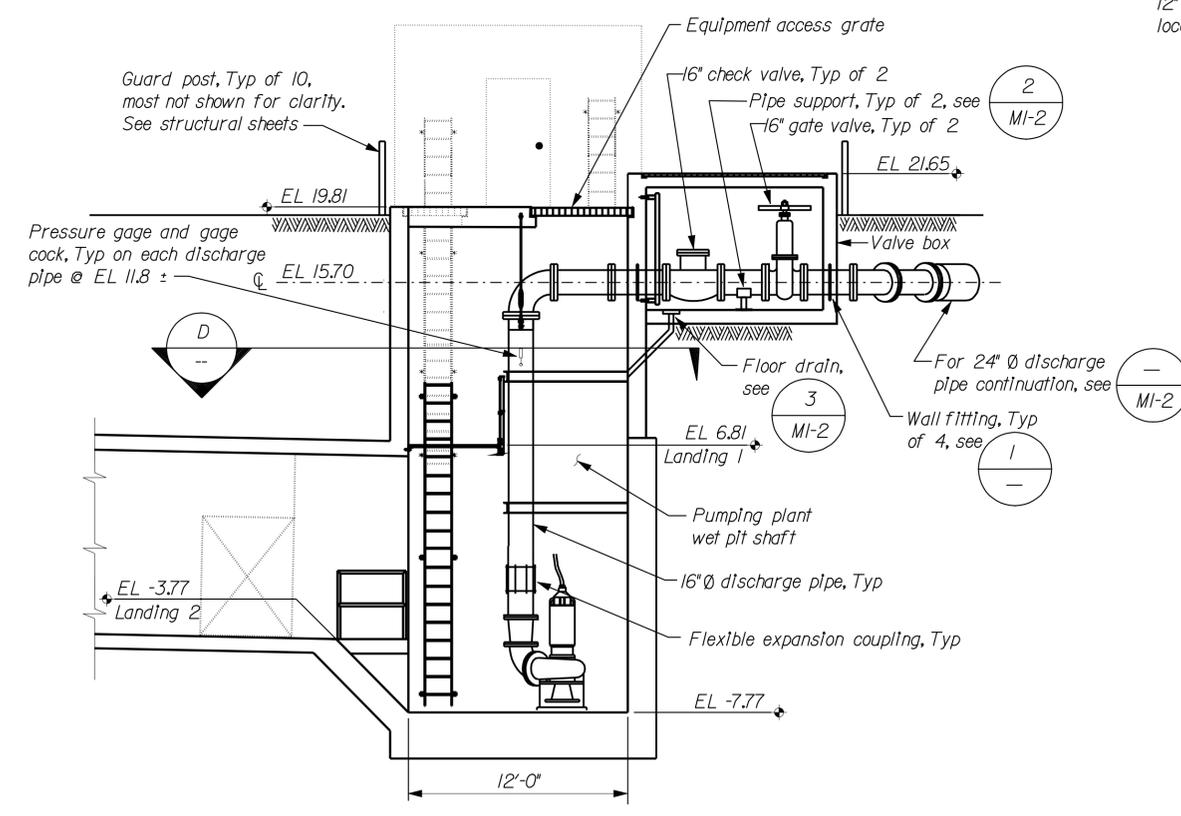
**PARTIAL PLAN**  
1"=5'



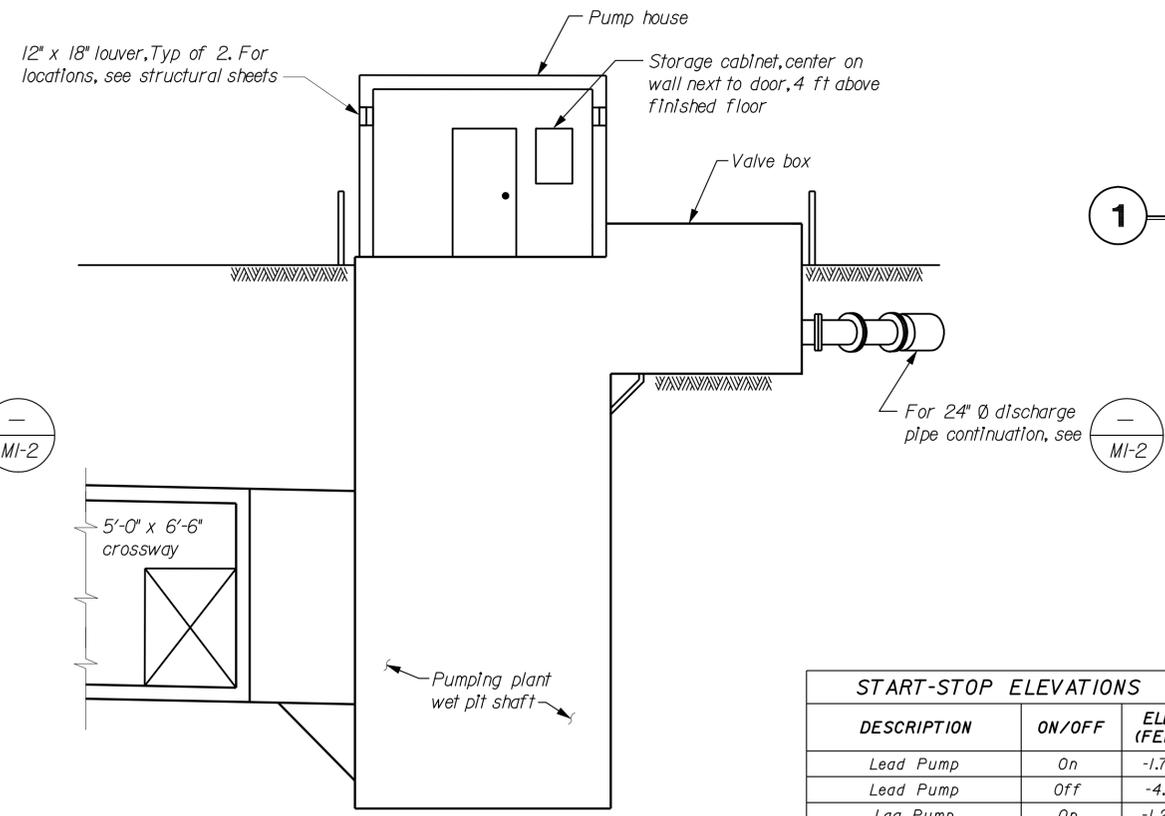
**SECTION D**  
1"=5'



**1 WALL FITTING DETAIL**  
No Scale



**SECTION B**  
1"=5'



**SECTION C**  
1"=5'

START-STOP ELEVATIONS		
DESCRIPTION	ON/OFF	ELEV (FEET)
Lead Pump	On	-1.75
Lead Pump	Off	-4.0
Lag Pump	On	-1.25
Lag Pump	Off	-4.0
High Level	On	-0.5
High Level	Off	-4.0

- NOTES:**
- Support pump motor cables with stainless steel grips. See Electrical sheets for details.
  - Pumps shall be installed with cast-in-place studs, epoxy concrete expansion anchor bolts, or per manufacturer's recommendation. The size and number of fasteners shall match manufacturer's recommendation. All fasteners and appurtenances shall be stainless steel. Pump setting details shall be in accordance with pump manufacturer installation requirements.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Thomas Dietsch	CHECKED Jesus Ramirez
DETAILS	BY Thomas Dietsch	CHECKED Jesus Ramirez
QUANTITIES	BY Thomas Dietsch	CHECKED Jesus Ramirez

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES  
ELECTRICAL-MECHANICAL-WATER  
AND WASTEWATER DESIGN

BRIDGE NO.  
29-0115W  
POST MILE

**EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS**  
PUMPING PLANT UP  
PUMPING PLANT DETAILS

SHEET  
**M1-1**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE  
3615 1000000409

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)							
06-17-10	08-18-10	02-08-11	04-13-11	05-18-11	07-26-11	08-24-11	

SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1384	1414

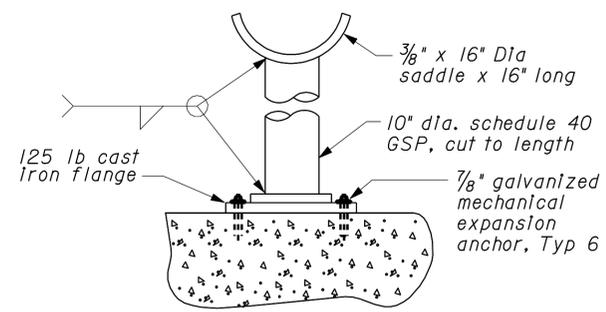
  

APPROVED <i>Jack Wheeler</i> REGISTERED ENGINEER-MECHANICAL DATE 08-24-11		APPROVAL DATE: 08-04-11
REVIEWED BY: FRANCIS SOLICH		

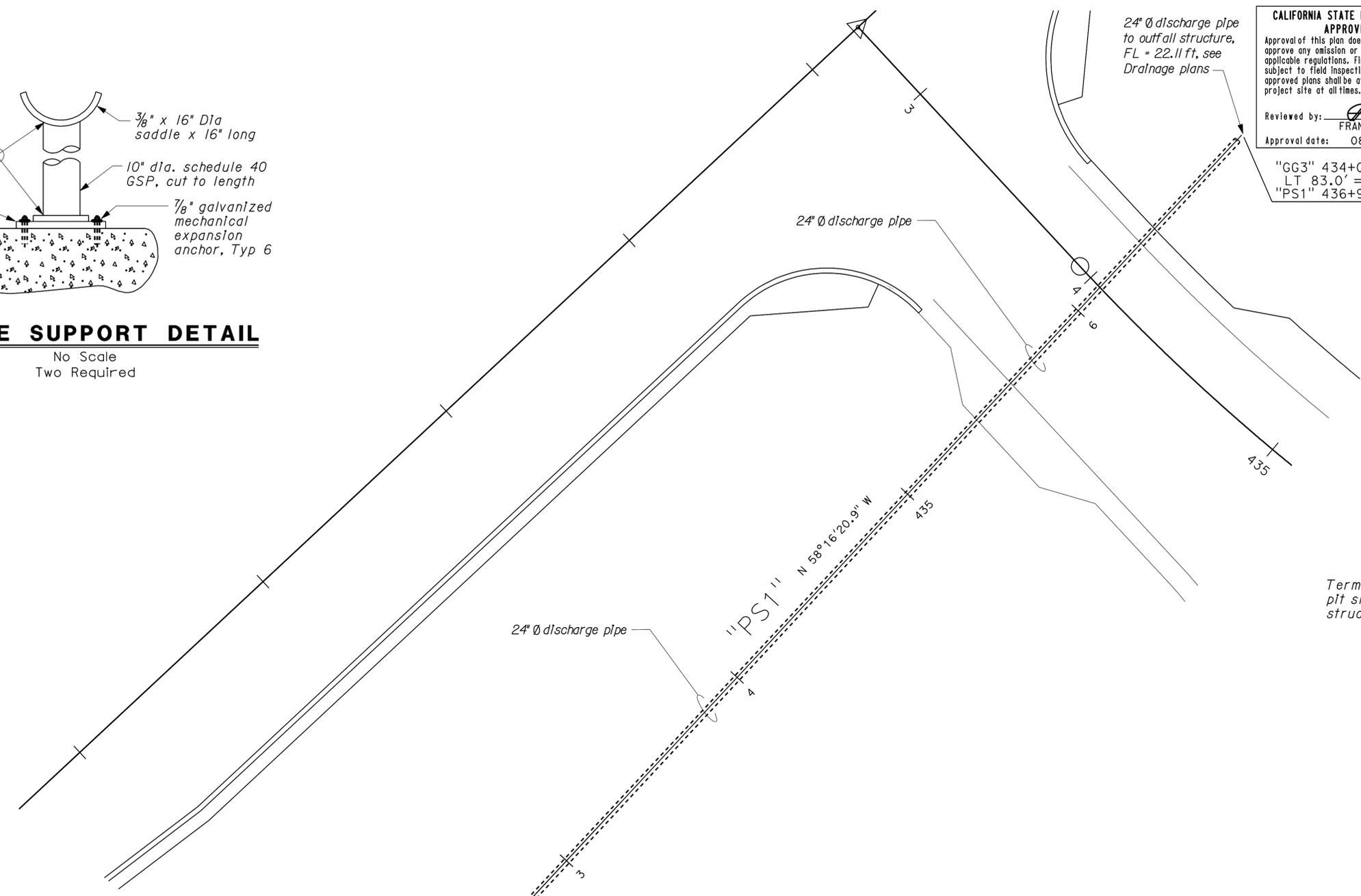
  

3-26-12
PLANS APPROVAL DATE

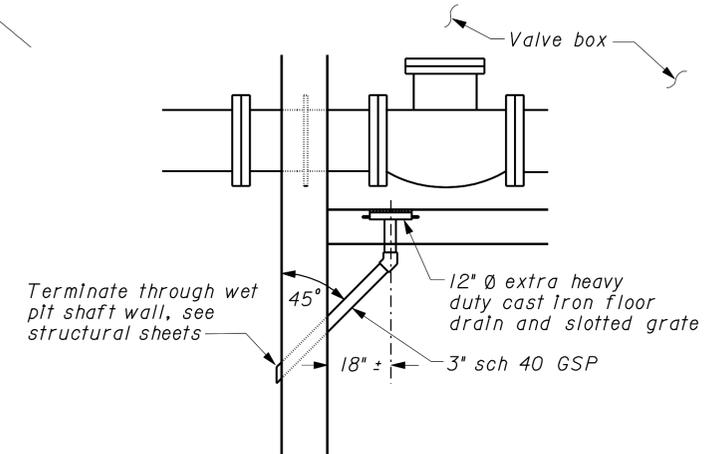
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.*



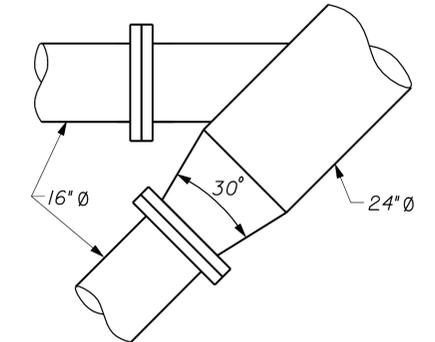
**2 PIPE SUPPORT DETAIL**  
 No Scale  
 Two Required



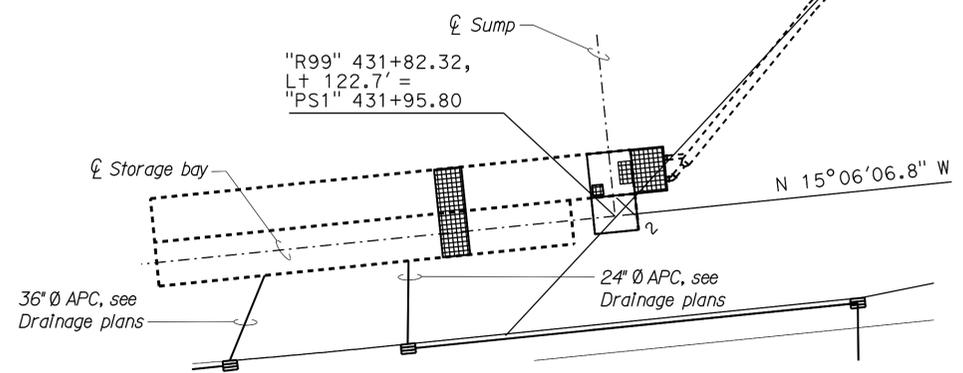
**PARTIAL SITE PLAN**  
 1"=100'



**3 FLOOR DRAIN DETAIL**  
 No Scale



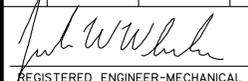
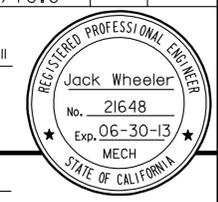
**4 MANIFOLD DETAIL**  
 No Scale



THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY <i>Thomas Dietsch</i> CHECKED <i>Jesus Ramirez</i> DETAILS BY <i>Thomas Dietsch</i> CHECKED <i>Jesus Ramirez</i> QUANTITIES BY <i>Thomas Dietsch</i> CHECKED <i>Jesus Ramirez</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UP AND RTE 26/99          Sep PUMPING PLANTS</b>	SHEET <b>M1-2</b>
			POST MILE EAST STOCKTON UP PUMPING PLANT		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3615 1000000409	REVISION DATES (PRELIMINARY STAGE ONLY) 06-11-10 08-18-10 02-08-11 04-13-11 05-18-11 07-06-11 08-24-11	SHEET OF

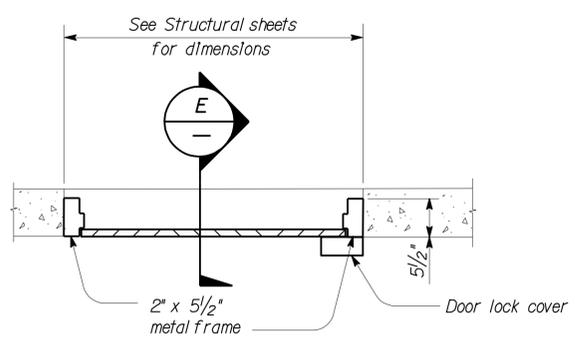
USERNAME => s121614 DATE PLOTTED => 30-MAR-2012 TIME PLOTTED => 14:13

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1385	1414
 REGISTERED ENGINEER-MECHANICAL DATE 08-24-11					
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

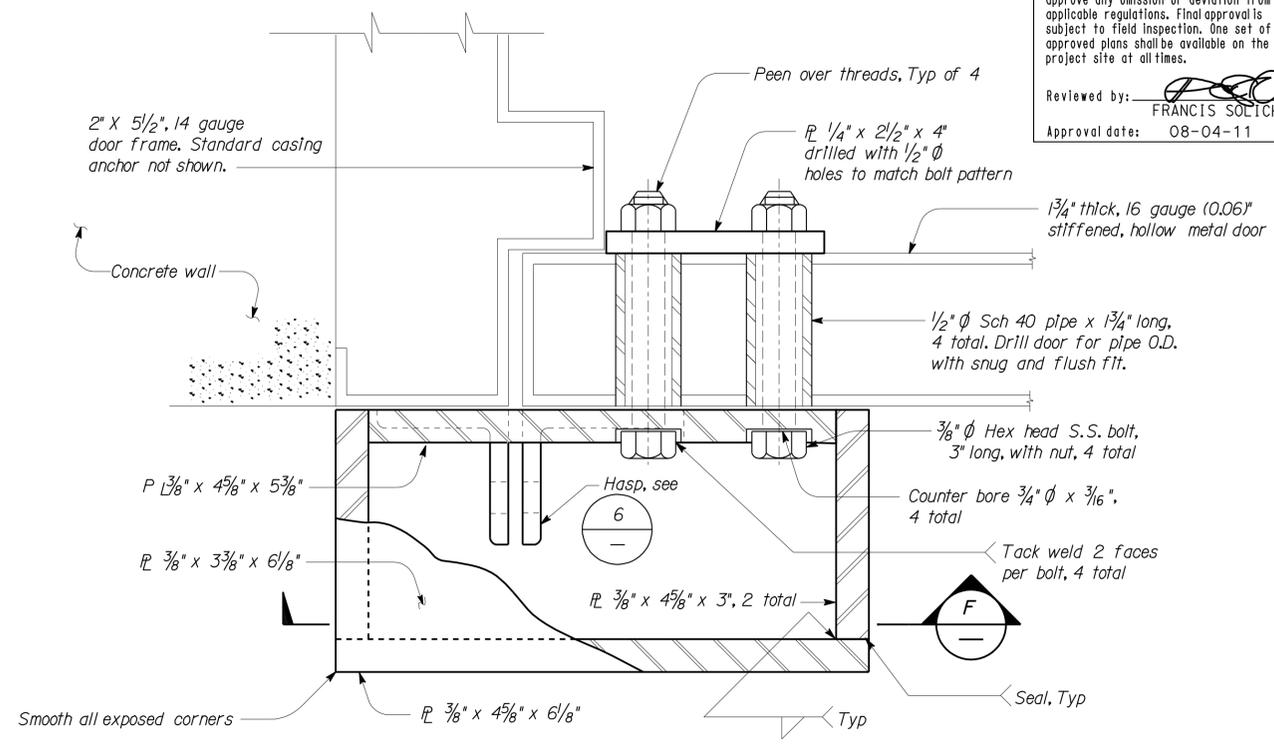
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

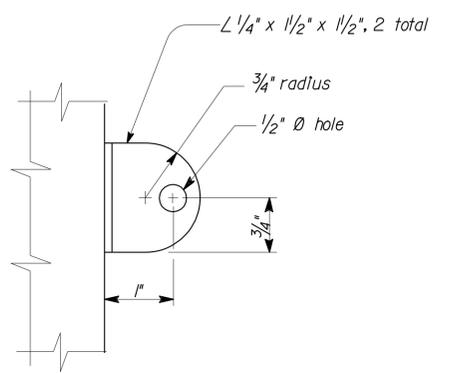
Reviewed by:   
FRANCIS SOLICH  
Approval date: 08-04-11



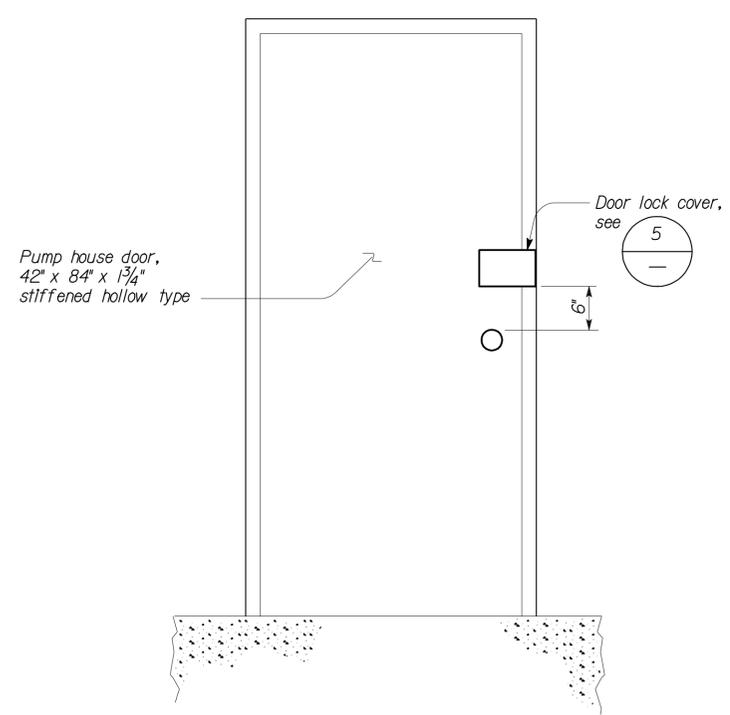
**DOOR PLAN**  
No Scale



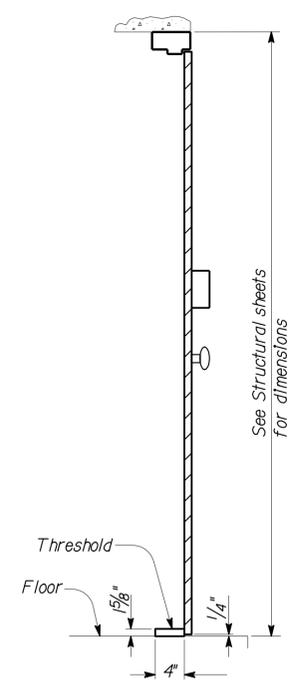
**5 DOOR LOCK COVER DETAIL**  
No Scale



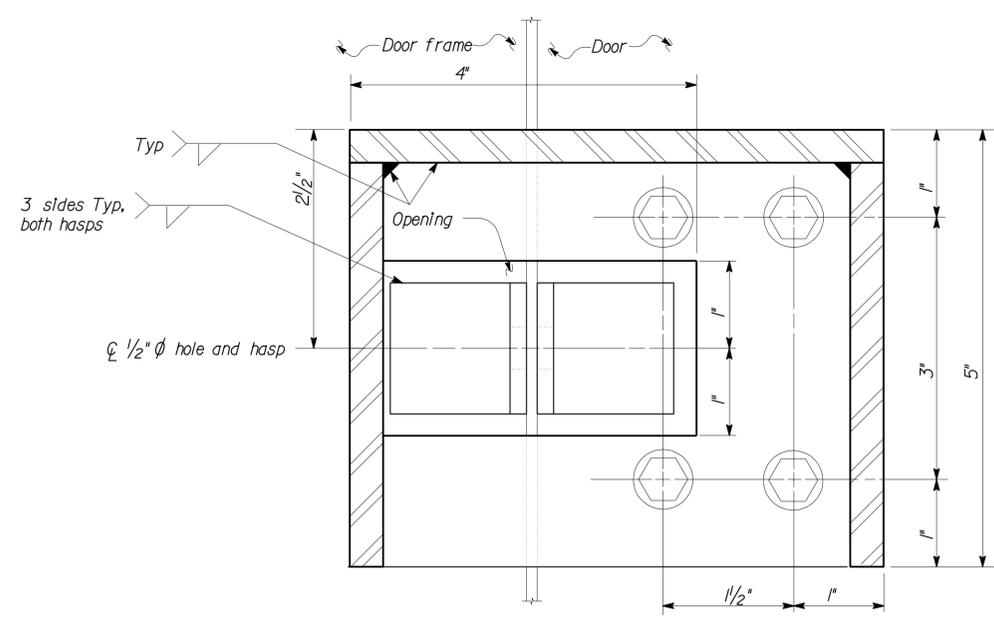
**6 HASP DETAIL**  
No Scale  
Two Required



**DOOR ELEVATION**  
No Scale



**E SECTION**  
No Scale



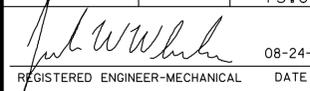
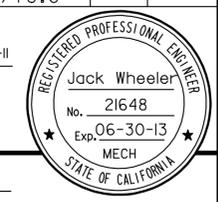
**F SECTION**  
No Scale

**NOTE:**  
Completed door lock cover shall be primed and painted to match door finish.

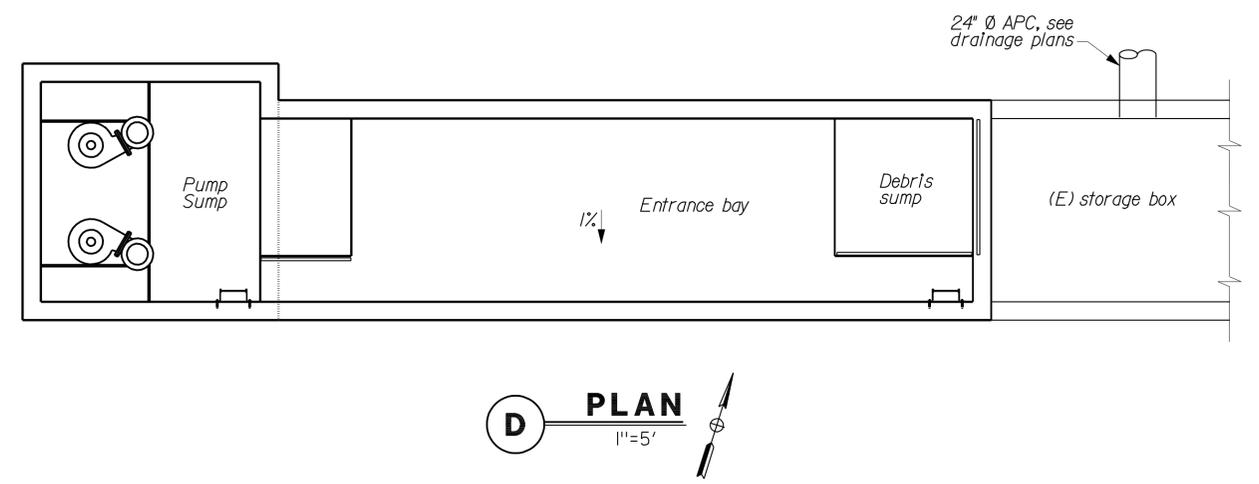
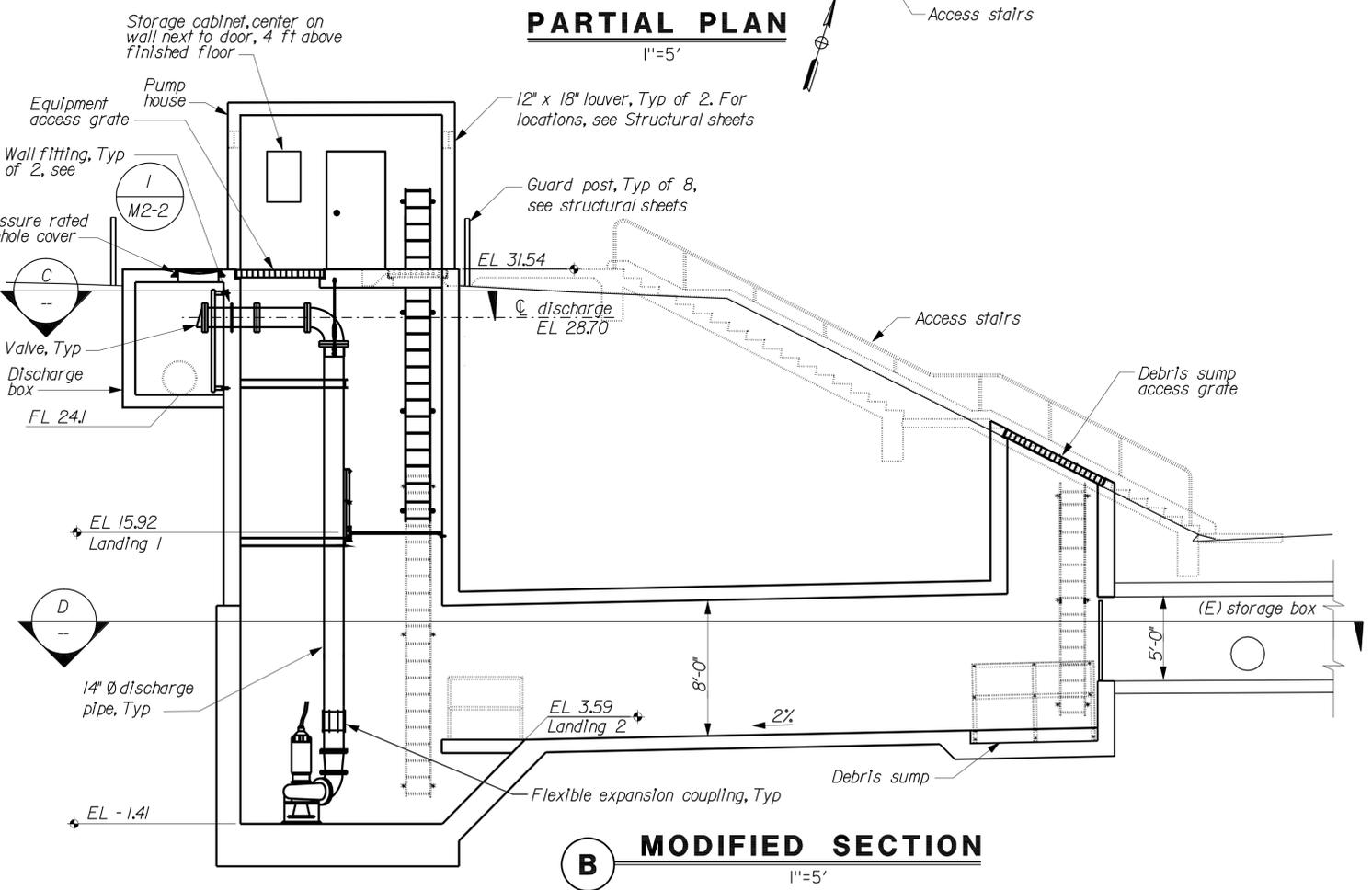
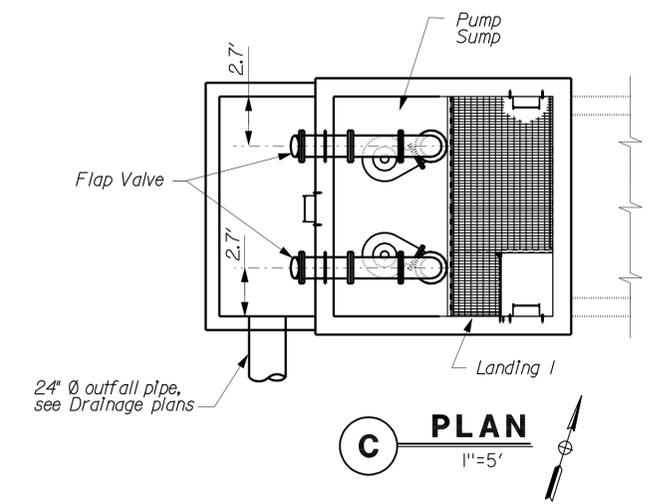
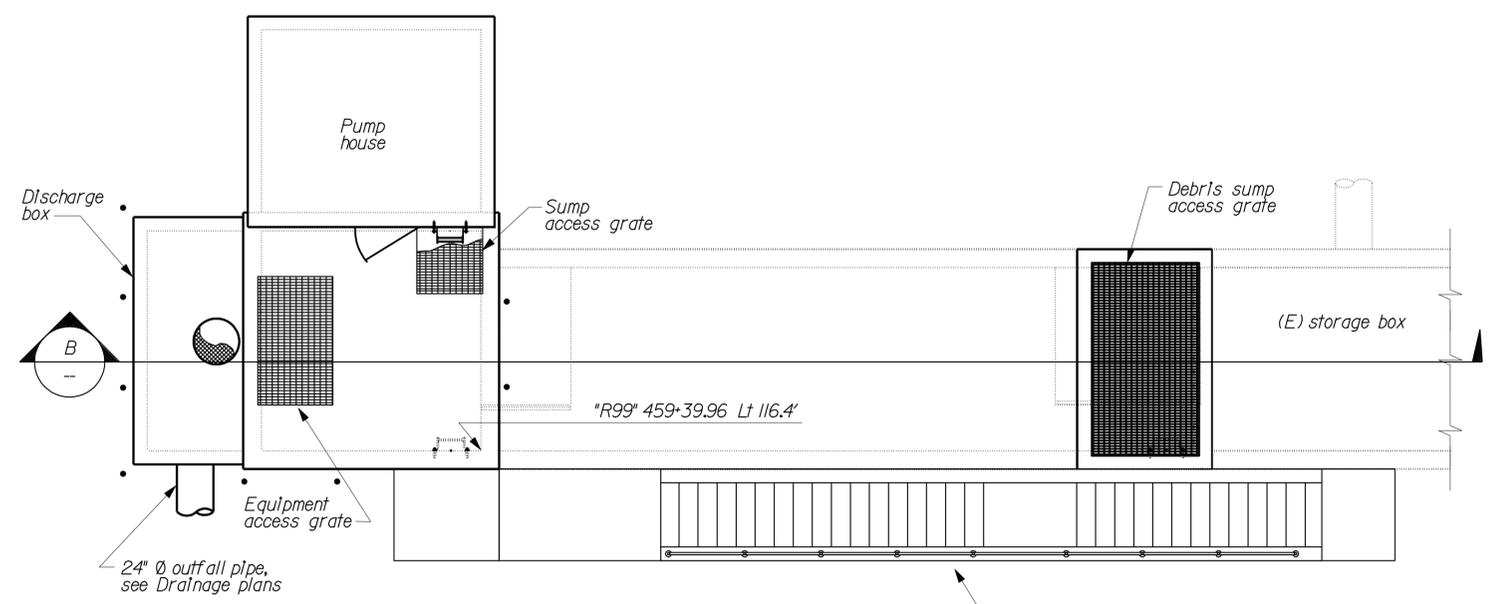
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY	Thomas Dietsch	CHECKED	Jesus Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	29-0115W	EAST STOCKTON UP PUMPING PLANT	PUMP HOUSE DOOR DETAILS	SHEET <b>M1-3</b>
	DETAILS	BY	Thomas Dietsch	CHECKED			Jesus Ramirez	POST MILE			
QUANTITIES	BY	Thomas Dietsch	CHECKED	Jesus Ramirez	UNIT PROJECT NUMBER & PHASE	3615 1000000409	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 EA 3A1001 FILE => m1_3.dgn											

USERNAME => s121614 DATE PLOTTED => 29-MAR-2012 TIME PLOTTED => 17:47

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1386	1414
 REGISTERED ENGINEER-MECHANICAL DATE 08-24-11					
3-26-12					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: FRANCIS SOLICH  
 Approval date: 08-04-11



- NOTES:**
- Support pump motor cables with stainless steel grips. See Electrical sheets for details.
  - Pumps shall be installed with cast-in-place studs, epoxy concrete expansion anchor bolts, or per manufacturer's recommendation. The size and number of fasteners shall match manufacturer's recommendation. All fasteners and appurtenances shall be stainless steel. Pump setting details shall be in accordance with pump manufacturer installation requirements.

DESCRIPTION	ON/OFF	ELEV (FEET)
Lead Pump	On	7.0
Lead Pump	Off	2.3
Lag Pump	On	7.5
Lag Pump	Off	2.3
High Level	On	8.25
High Level	Off	2.3

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Thomas Dietsch CHECKED Jesus Ramirez DETAILS BY Thomas Dietsch CHECKED Jesus Ramirez QUANTITIES BY Thomas Dietsch CHECKED Jesus Ramirez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UP AND RTE 26/99 Sep PUMPING PLANTS</b>	SHEET	
			POST MILE		RTE 26/99 Sep PUMPING PLANT	<b>M2-1</b>
			PUMPING PLANT DETAILS			SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3615 1000000409	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

USERNAME => s121614 DATE PLOTTED => 04-MAY-2012 TIME PLOTTED => 11:04



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

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
<b>CEILING WALL</b>	
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES
NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE: (4) F 2 - 2 x 32 	
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
S	SINGLE POLE SWITCH
S2	DOUBLE POLE SWITCH
S3	THREE WAY SWITCH
S4	FOUR WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
Sp	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SRC	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
Svs	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP

SYMBOL	DESCRIPTION
S1	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S2	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
Ts	TIMER SWITCH
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	HAND DRYER NOZZLE
	HAND DRYER
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
	THERMOSTAT
	PRESSURE SWITCH
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC CELL
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR
	CONDUIT EXPOSED
CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.	
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	SURFACE METAL RACEWAY
	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	CONDUIT, RIGID STEEL, UNDERGROUND
	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE

SYMBOL	DESCRIPTION
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	AUDIO/VISUAL ALARM DEVICE
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

**REMODEL WORK**

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

**STANDARD NOTES**

	ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
	INSTALL CONDUIT INTO EXISTING PULL BOX.
	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS, INSTALL PULL ROPE AND PLUG.
	REMOVE FOUNDATION ABOVE GRADE AND ABANDON FOUNDATION BELOW GRADE.
	RELOCATE EQUIPMENT.
	RELOCATED EQUIPMENT.
	SPLICE NEW TO EXISTING CONDUCTORS.

**STANDARD PLANS**

DATED MAY, 2006  
 • RSP-ES-6A  
 • NSP-ES-8A  
 • NSP-ES-8B

**GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS**

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

**PROJECT NOTES**

- SEPARATE GROUNDED (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1388	1414

REGISTERED ELECTRICAL ENGINEER *Beatrice Bindu* DATE 10-20-11

3-26-12 PLANS APPROVAL DATE

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

**ABBREVIATIONS**

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL INDICATING LIGHT
IL	INTRINSICALLY SAFE RELAY
ISR	INTRINSICALLY SAFE RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PBR	PUSHBUTTON
PFR	PHASE FAILURE RELAY
PFRD	PHASE FAILURE RELAY DISCONNECT
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	POWER SWITCH
PVS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
S	STARTER COIL
SFR	SERVICE DISCONNECT
SL	SEAL FAILURE RELAY
SUMP	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
SST	STAINLESS STEEL
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

DESIGN	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 29-0115W 29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS	SHEET	
DETAILS	BY <i>Kathi Andreasen</i>	CHECKED <i>Beatrice Bindu</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		LEGEND	EE1-0
QUANTITIES	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>		UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEMWW Imper-Id Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 10000004091 DISREGARD PRINTS BEARING EARLIER REVISION DATES 7/28/11 7/28/11 8/16/11 10/20/11

3A1001 ee1\_00.dgn



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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

#### INDOOR LIGHTING SCHEDULE and FIELD ENERGY CHECKLIST

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

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST			Field Inspector	
Type/Description	Number of Units	Location in Building	Pass	Fail
NOT APPLICABLE			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Field Inspectors' Notes or Discrepancies:

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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	=	Adjusted Installed Lighting Power	= 234
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	252

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

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

Luminaires Controlled			LTG-2A and LTG-3A
Equipment Requiring Testing	Description	Number of Like Controls	Location
			Controls and Sensors and Automatic Daylighting Controls Acceptance
			<input type="checkbox"/>

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1390	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12 PLANS APPROVAL DATE

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



**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: FRANCIS SOLICH

Approval date: 08-04-11

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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

Project Address: HWY 99 and HWY 4 INTERCHANGE STOCKTON, CA 95206 Total Hardscape Illuminated Area: 650

General Information  
Phase of Construction:  New Construction  Addition  Alteration

Documentation Author's Declaration Statement  
I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: BEATRICE BINDU Signature: *Beatrice Bindu*  
Company: CALTRANS Date: 4/29/2011  
Address: 1801 30TH STREET If applicable: CEA # CEPE #  
City/State/Zip: SACRAMENTO, CA 95816 Phone: (916) 227-8764

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

Name: BEATRICE BINDU Signature: *Beatrice Bindu*  
Company: CALTRANS Phone: (916) 227-8764  
Address: 1801 30TH STREET License # E 17240  
City/State/Zip: SACRAMENTO, CA 95816 Date: 4/29/2011

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

Outdoor Lighting Mandatory Measures  
Indicate location on building plans of Mandatory Measures Note Block: N/A

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

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

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

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

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

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

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

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

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

Luminaire Schedule					Installed Watts				
A	B	C	D	E	F		G	H	I
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire 1	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector 2
					Default from NA-8	According to S 130 (d or e)			Pass Fail
HP1	POLE-TOP 310 WATT HIGH PRESSURE SODIUM	✓	310	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	310	<input type="checkbox"/> <input type="checkbox"/>
H1	ENTRY LIGHT - H1-1X150		150	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	150	<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								460	

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

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

EXEMPT LUMINAIRES Field Inspection

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

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location

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

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

Field Inspector Notes or Discrepancies:

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1391	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12 PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: FRANCIS SOLICH  
Approval date: 08-04-11

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 29-0115W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS		SHEET EE1-3
DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE	TITLE 24 COMPLIANCE NO. 3		OF
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>		UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

3A1001

28-MAR-2012 14:58 ee1\_03.dgn



**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Francis Solich*  
 FRANCIS SOLICH  
 Approval date: 08-04-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1393	1414

<i>Beatrice Bindu</i>	10-20-11
REGISTERED ELECTRICAL ENGINEER	DATE

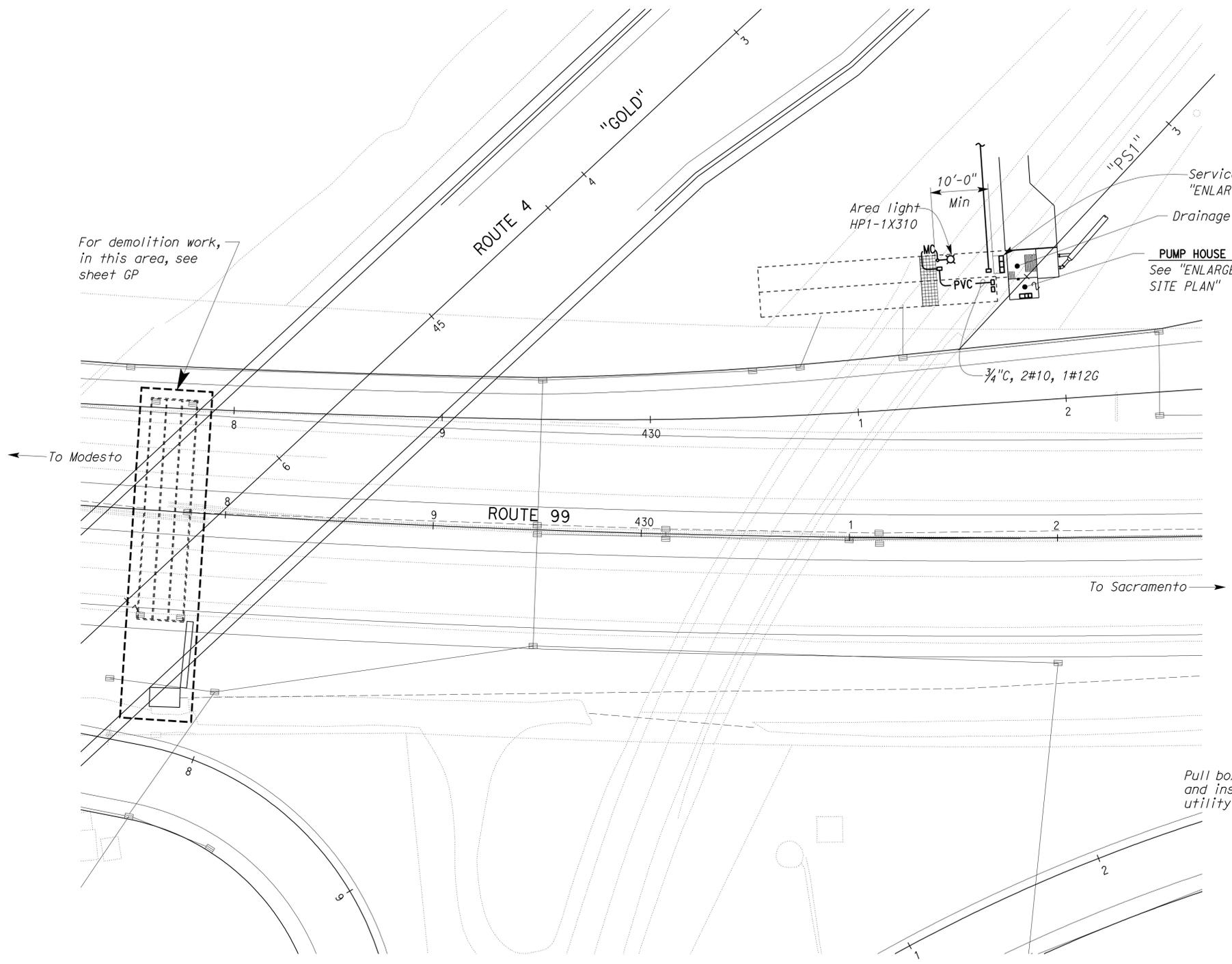
  

3-26-12
PLANS APPROVAL DATE

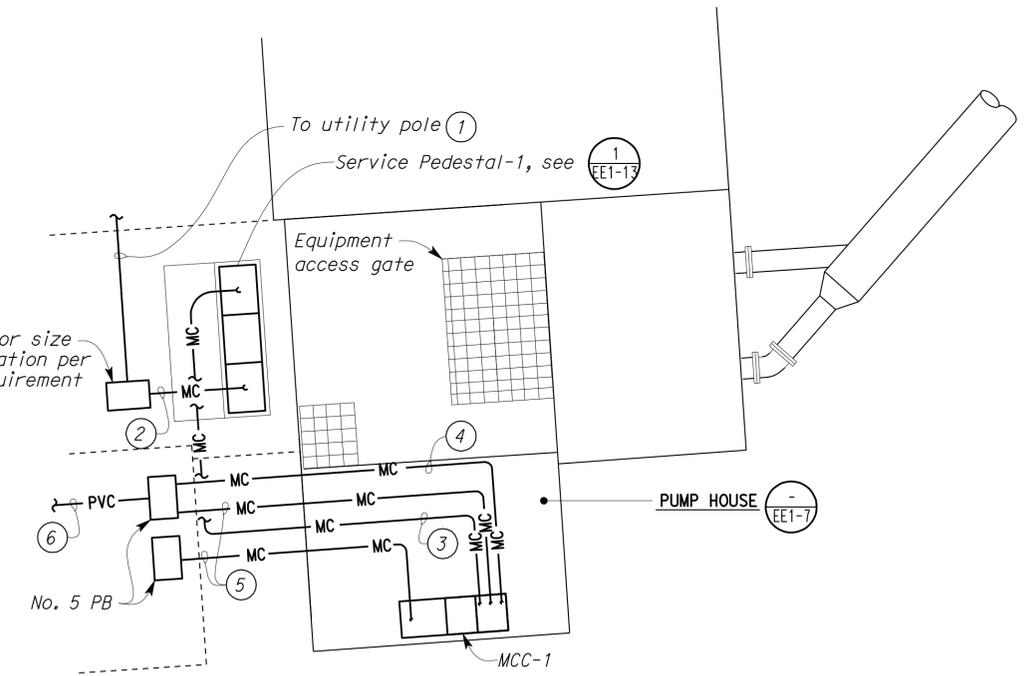
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



- Notes:
- For the location of the utility transformer installation of conduits and conductors, see Electrical plans ("E" sheets).
  - 4" PVC, MT, conductors per Utility Company requirements.
  - 4" MC, 3#300 MCM, 1#2G, to MCC
  - 3/4" C, 2#10, 1#12G (Area light)..
  - 1/2" C, MT (Spare).
  - 3/4" C, 2#10, 1#12G, to area light pull box.



**SITE PLAN**  
 SCALE 1" = 30'-0"



**ENLARGED SITE PLAN**  
 SCALE 1" = 5'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

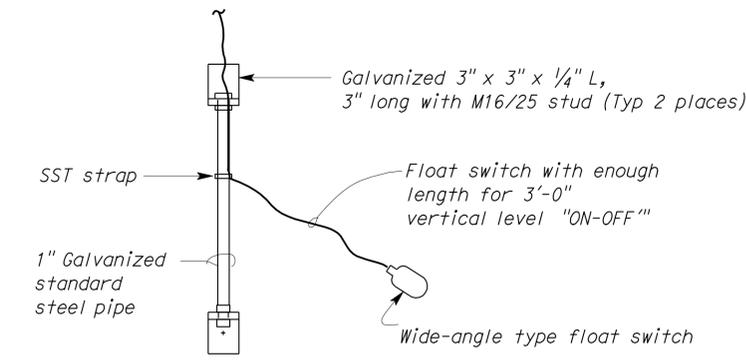
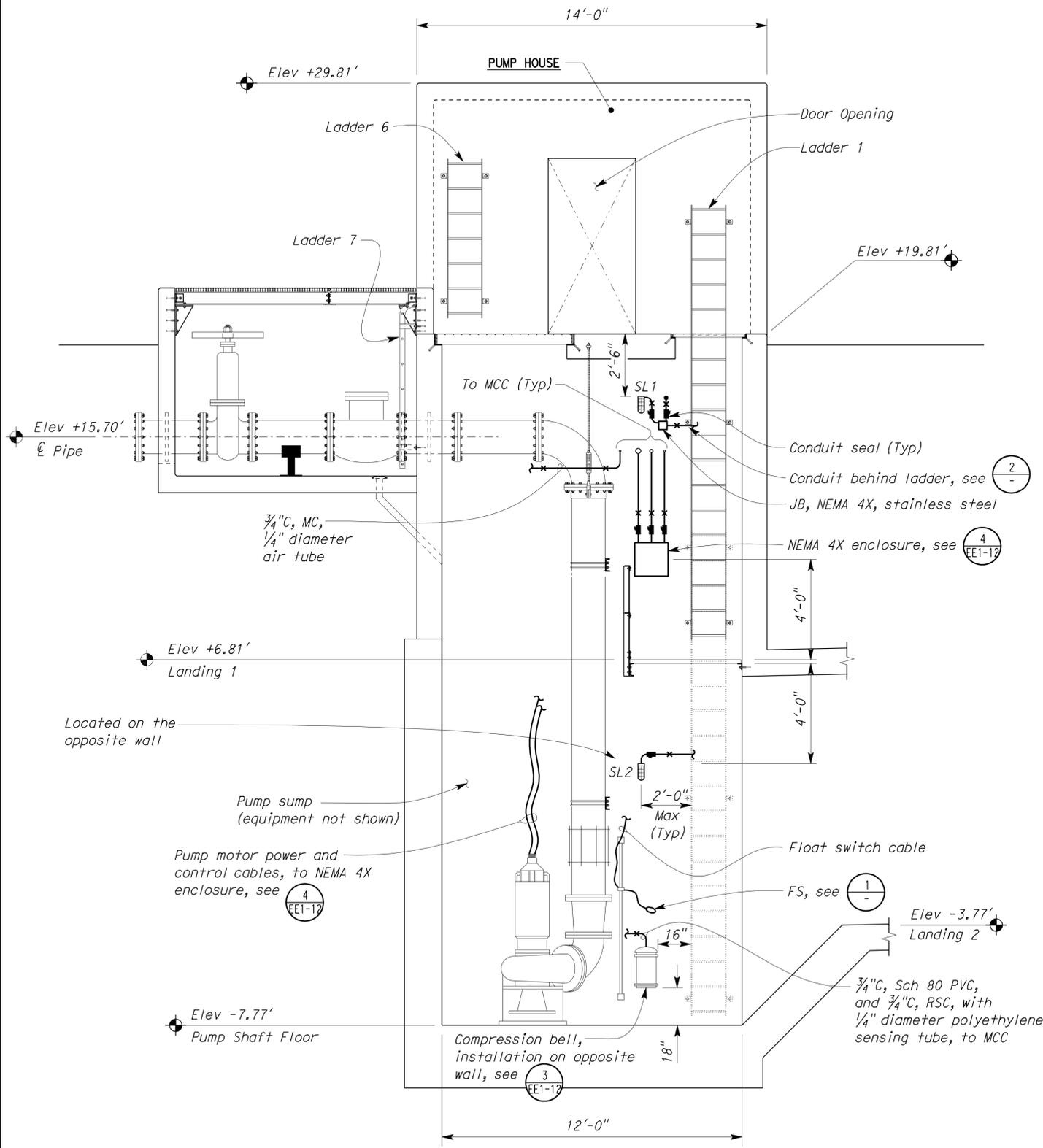
DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Mark Chapp</i>	DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS</b> ELECTRICAL SITE PLAN	SHEET <b>EE1-5</b> OF
	DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE EAST STOCKTON UNDERPASS PUMPING PLANT		
	QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>				REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3/7/11 4/21/11 7/28/11 8/7/11 10/20/11	SHEET OF	

28-MAR-2012 15:04 ee1\_05.dgn

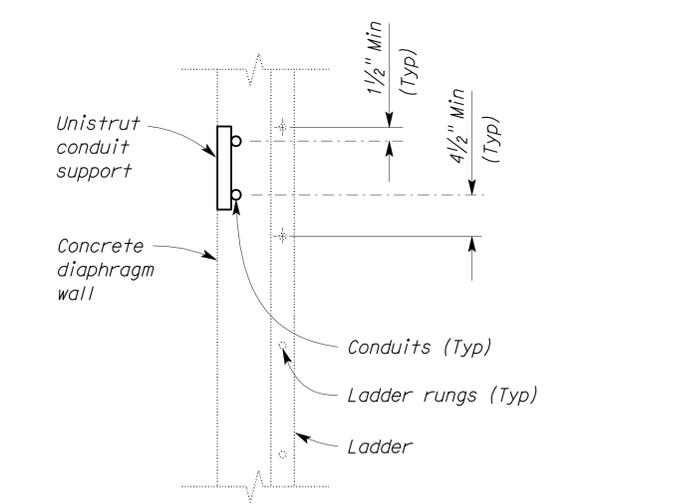
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1394	1414

REGISTERED ELECTRICAL ENGINEER *Beatrice Bindu* DATE 10-20-11  
 PLANS APPROVAL DATE 3-26-12  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 BEATRICE BINDU  
 No. E 17240  
 Exp. 6-30-12  
 ELEC  
 STATE OF CALIFORNIA



**FLOAT SWITCH MOUNTING DETAIL**  
 1 NO SCALE



**TYPICAL CONDUIT INSTALLATION UNDER LADDER**  
 2 NO SCALE

**A SECTION**  
 SCALE 3/8" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

**General Note:**  
 A. For pump control levels, see Mechanical plans.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: FRANCIS SOLICH  
 Approval date: 08-04-11

TAEMWW Imperial Rev. 7/10	DESIGN BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	EAST STOCKTON UNDERPASS AND		SHEET EE1-6
	DETAILS BY	Kathi Andreasen	CHECKED	Beatrice Bindu		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	29-0115W	ROUTE 26/99 SEPARATION PUMPING PLANTS		
	QUANTITIES BY	Beatrice Bindu	CHECKED	Tech Ngov			POST MILE	PUMPING PLANT SECTION		
					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
					0 1 2 3	3597 10000004091		7/18/11 1/18/11 1/27/11 4/17/11 4/28/11 7/18/11 8/16/11 10/20/11		

28-MAR-2012 14:59 ee1\_06.dgn

General Note:

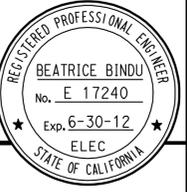
All conduits to pump sump shall be PVC coated rigid steel conduits.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1395	1414

REGISTERED ELECTRICAL ENGINEER *Beatrice Bindu* DATE 10-20-11

PLANS APPROVAL DATE 3-26-12

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



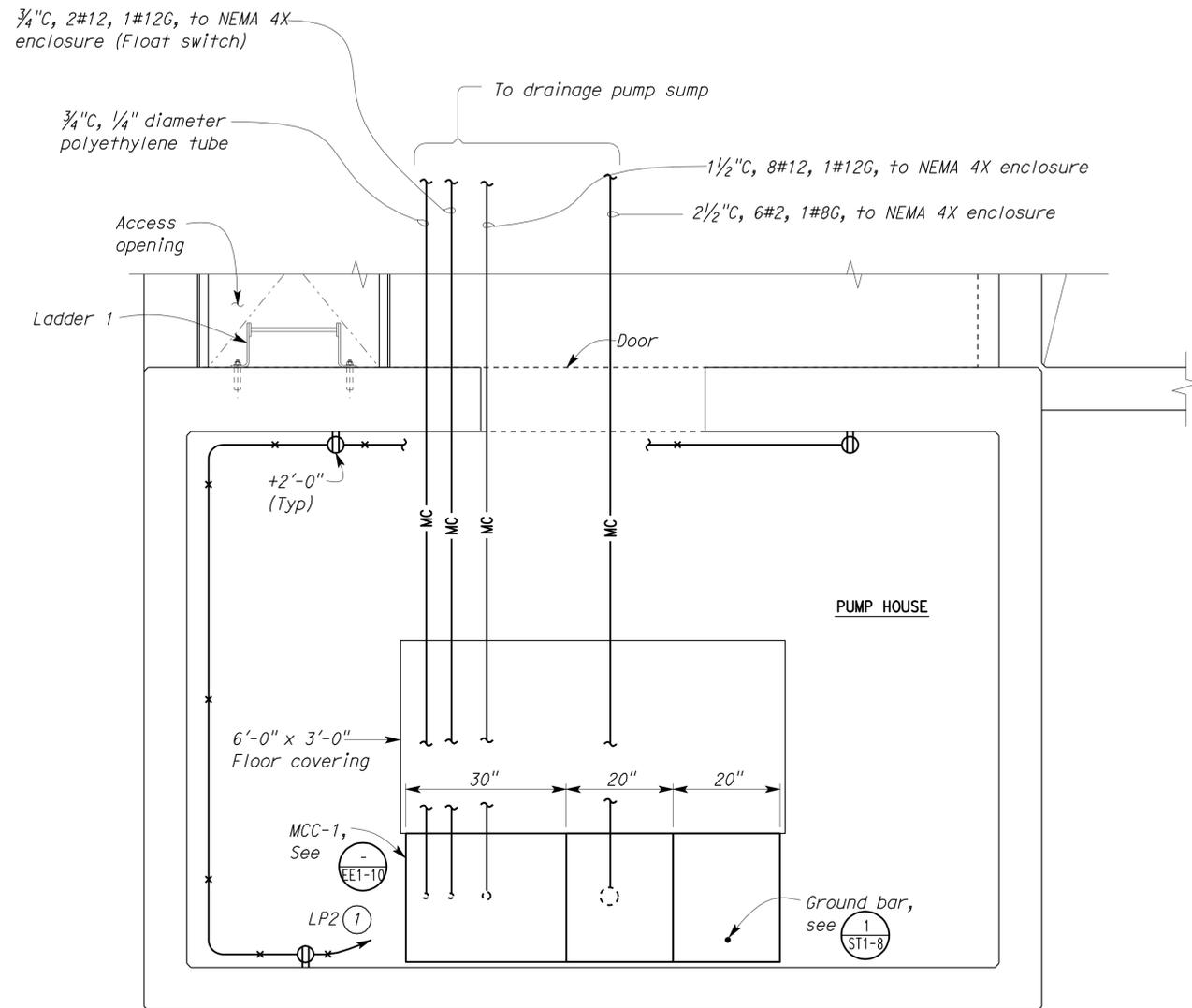
Note:

① Panel LP is inside MCC.

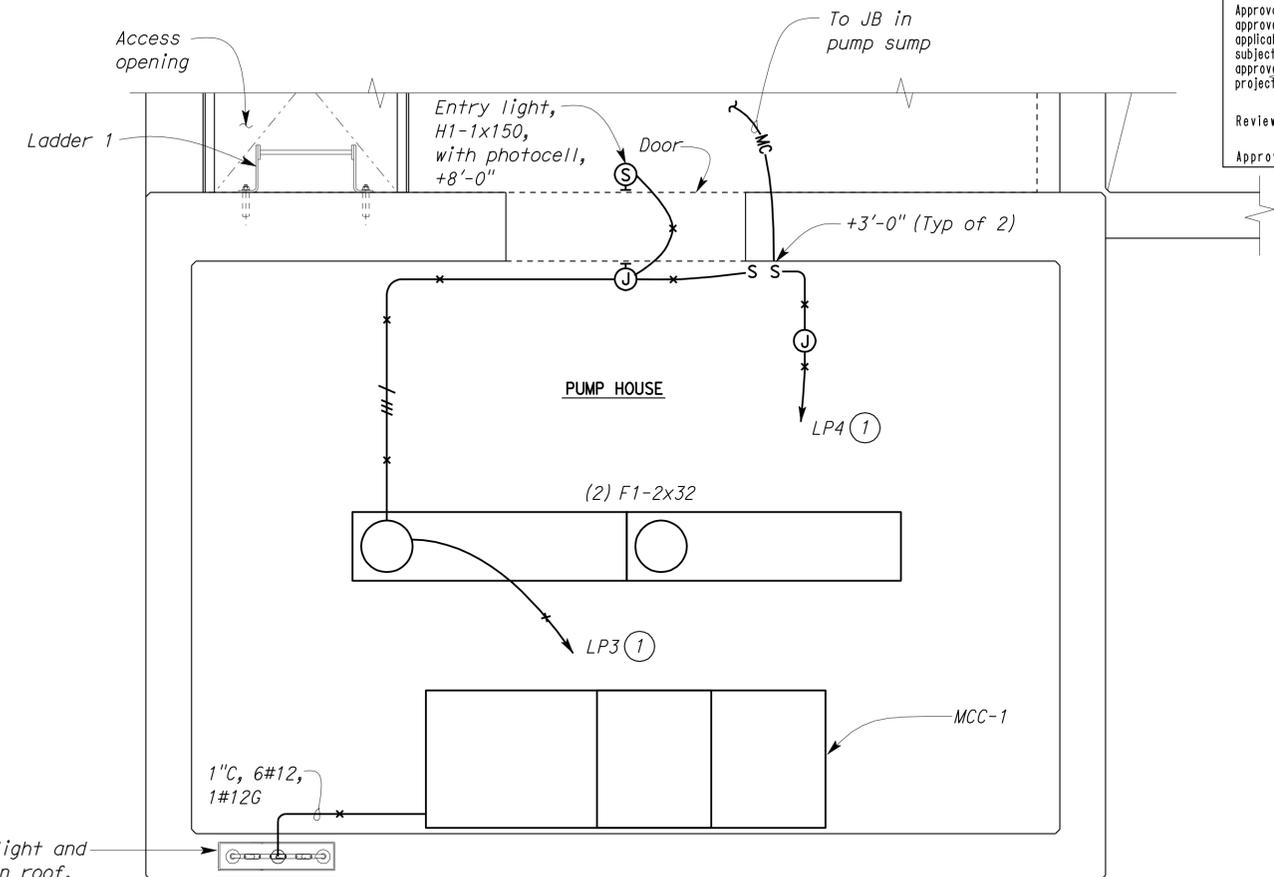
CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *Francis Solich*  
FRANCIS SOLICH  
Approval date: 08-04-11



**A POWER PLAN**  
SCALE 3/4" = 1'-0"



**B LIGHTING PLAN**  
SCALE 3/4" = 1'-0"

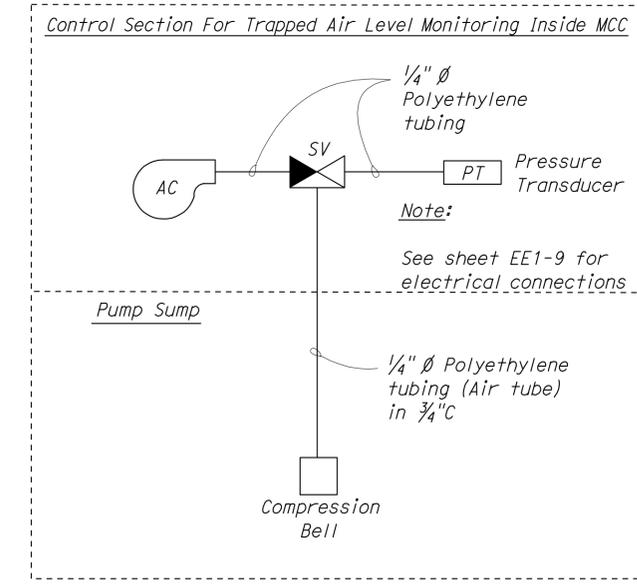
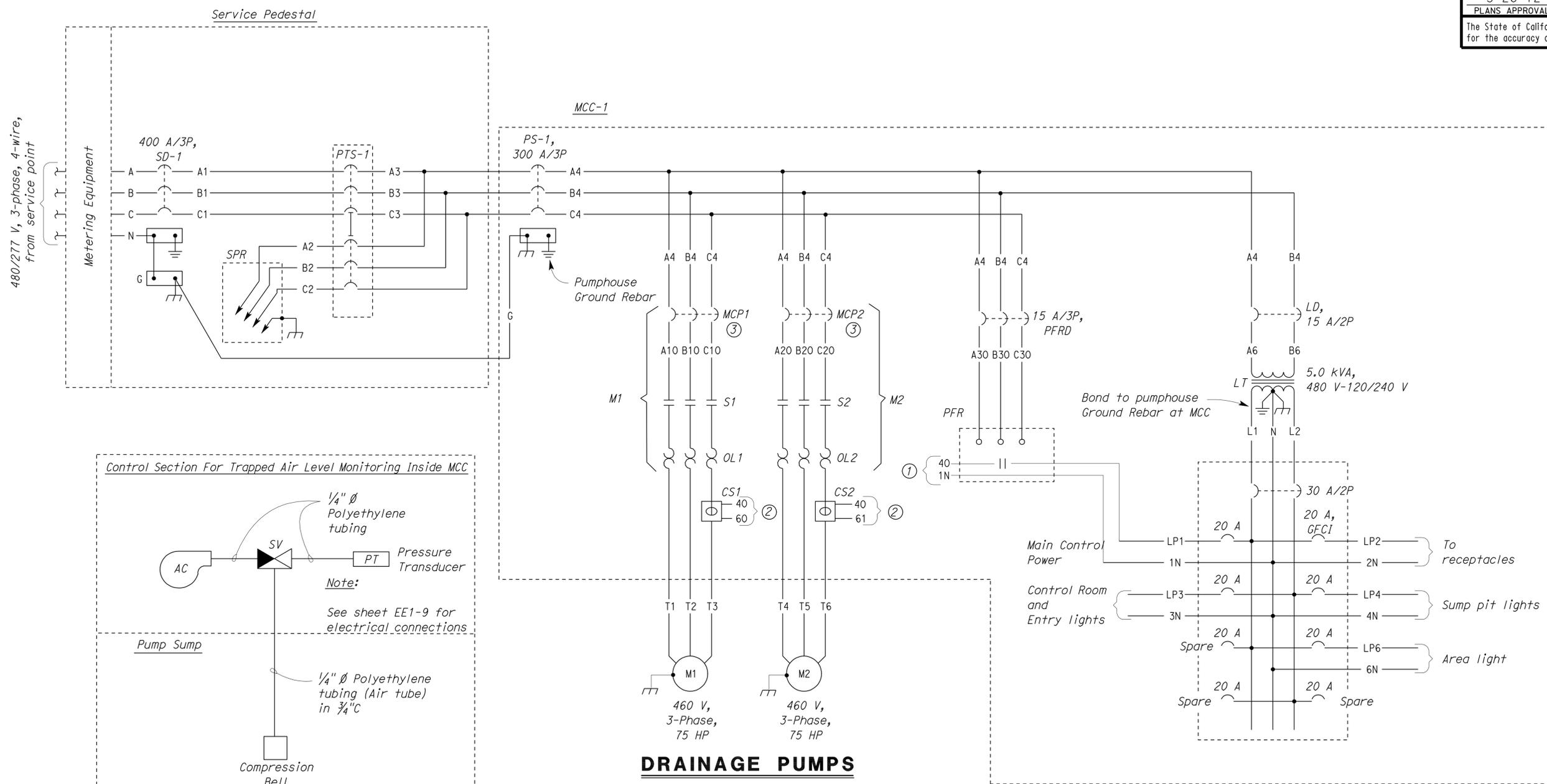
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0115W	EAST STOCKTON UNDERPASS AND PUMPING PLANTS		SHEET <b>EE1-7</b>
			POST MILE	CONTROL ROOM		
				POWER AND LIGHTING PLAN		
DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>			0	1	2	

28-MAR-2012 14:57 ee1\_07.dgn



**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Francis Solich*  
 Approval date: 08-04-11



- Notes:
- ① Pump Controls. For continuation see sheet EE1-9.
  - ② For continuation see sheet EE1-9.
  - ③ Trip rating is recommended by the pump motor manufacturer

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1397	1414

<i>Beatrice Bindu</i>		10-20-11
REGISTERED ELECTRICAL ENGINEER	DATE	

3-26-12
PLANS APPROVAL DATE

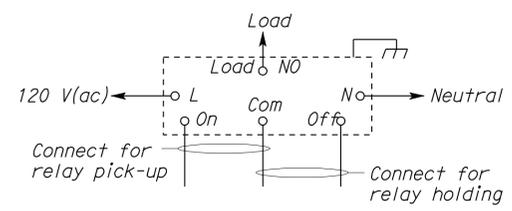
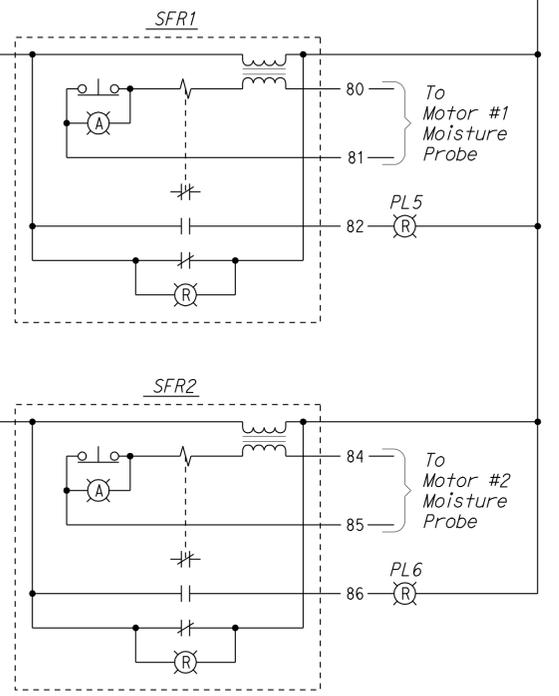
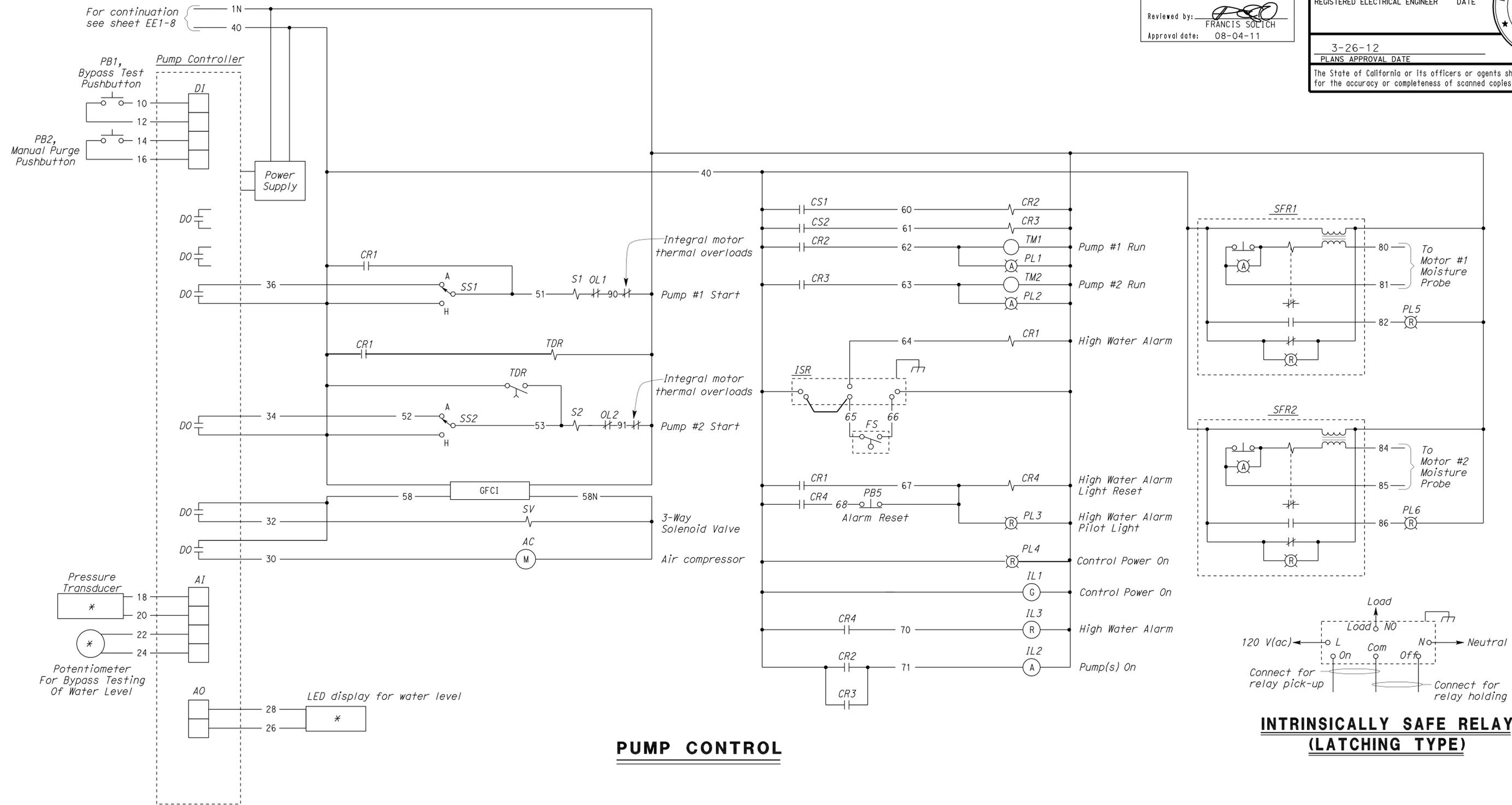
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: *Francis Solich*  
FRANCIS SOLICH

Approval date: 08-04-11



**INTRINSICALLY SAFE RELAY (LATCHING TYPE)**

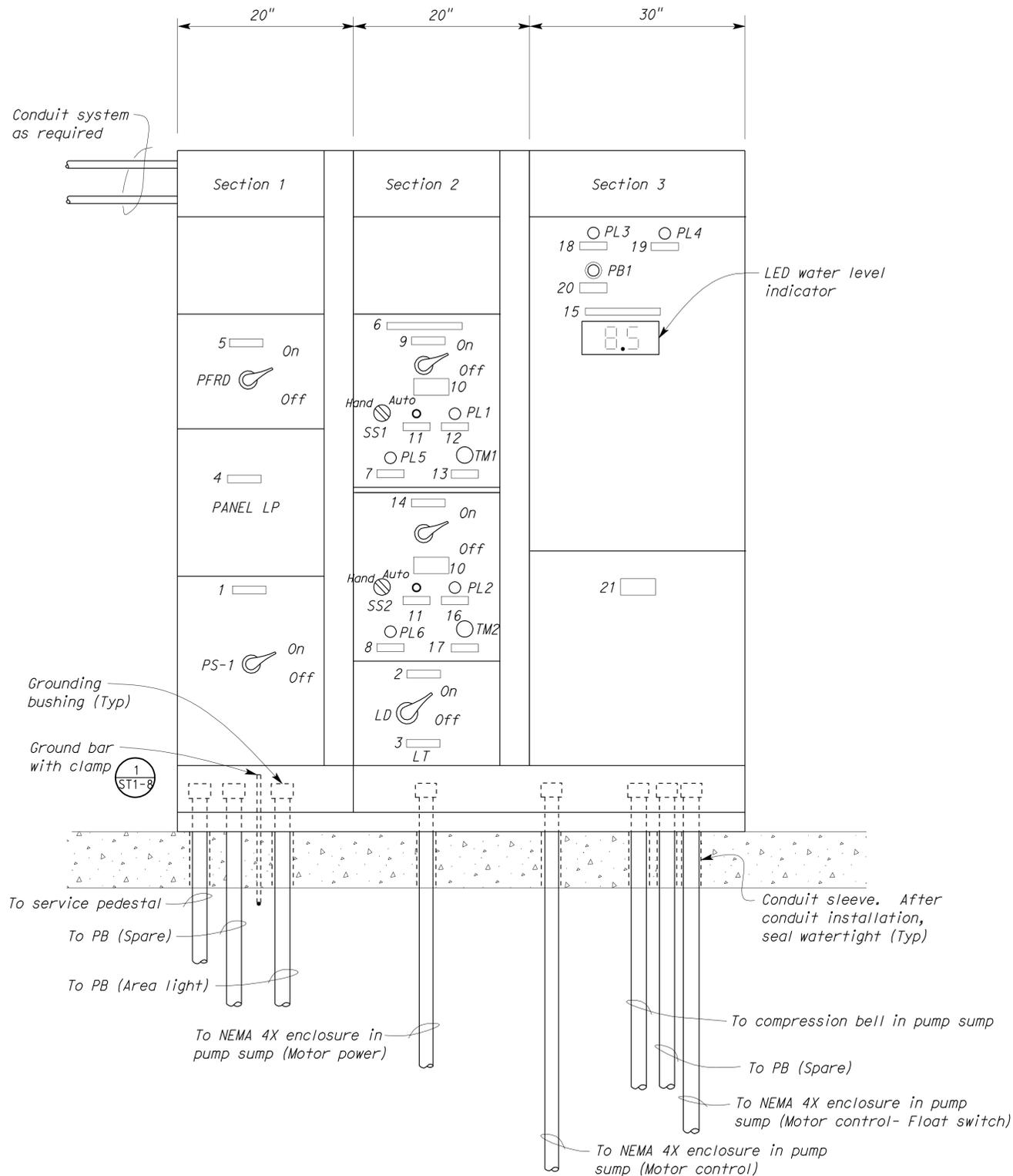
**PUMP CONTROL**

For continuation see sheet EE1-8

\* Provide voltage source as required

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i> QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS</b> STORM WATER PUMPS CONTROL SCHEMATIC DIAGRAM	SHEET <b>EE1-9</b>	
			POST MILE		EAST STOCKTON UNDERPASS PUMPING PLANT	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES →			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3597 10000004091	REVISION DATES (PRELIMINARY STAGE ONLY)			
TAEMWW Imperial Rev. 7/10		3A1001	SHEET OF			

28-MAR-2012 14:58 ee1\_09.dgn



### MOTOR CONTROL CENTER-1

NO SCALE  
(For details see sheet EE1-11)

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	MAIN DISCONNECT	1/4"
2	TRANSFORMER DISCONNECT	1/4"
3	LIGHTING TRANSFORMER. 480-120/240 V, 5 kVA	1/4"
4	PANEL LP 120/240 V - SINGLE PHASE	1/4"
5	PHASE FAILURE RELAY DISCONNECT	1/4"
6	DRAINAGE PUMPS	1/4"
7	SEAL FAILURE PUMP No. 1	1/8"
8	SEAL FAILURE PUMP No. 2	1/8"
9	PUMP No. 1 DISCONNECT	1/4"
11	OVERLOAD RESET	1/8"
12	PUMP No. 1 ON	1/8"
13	PUMP No. 1 RUN TIME	1/8"
14	PUMP No. 2 DISCONNECT	1/4"
15	PUMPS CONTROLLER	
16	PUMP No. 2 ON	1/8"
17	PUMP No. 2 RUN TIME	1/8"
18	HIGH WATER ALARM	1/8"
19	CONTROL POWER ON	1/8"
20	HIGH WATER ALARM RESET	1/8"

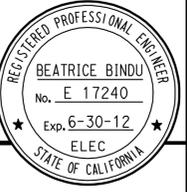
WARNING PLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
10	WARNING: MOTOR DISCONNECT DOES NOT OPEN CONTROL CIRCUIT	1/4"
21	TO DISCONNECT POWER IN THIS SECTION TURN OFF CIRCUIT BREAKER LP1	1/4"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1398	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12  
PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: FRANCIS SOLICH  
Approval date: 08-04-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1399	1414

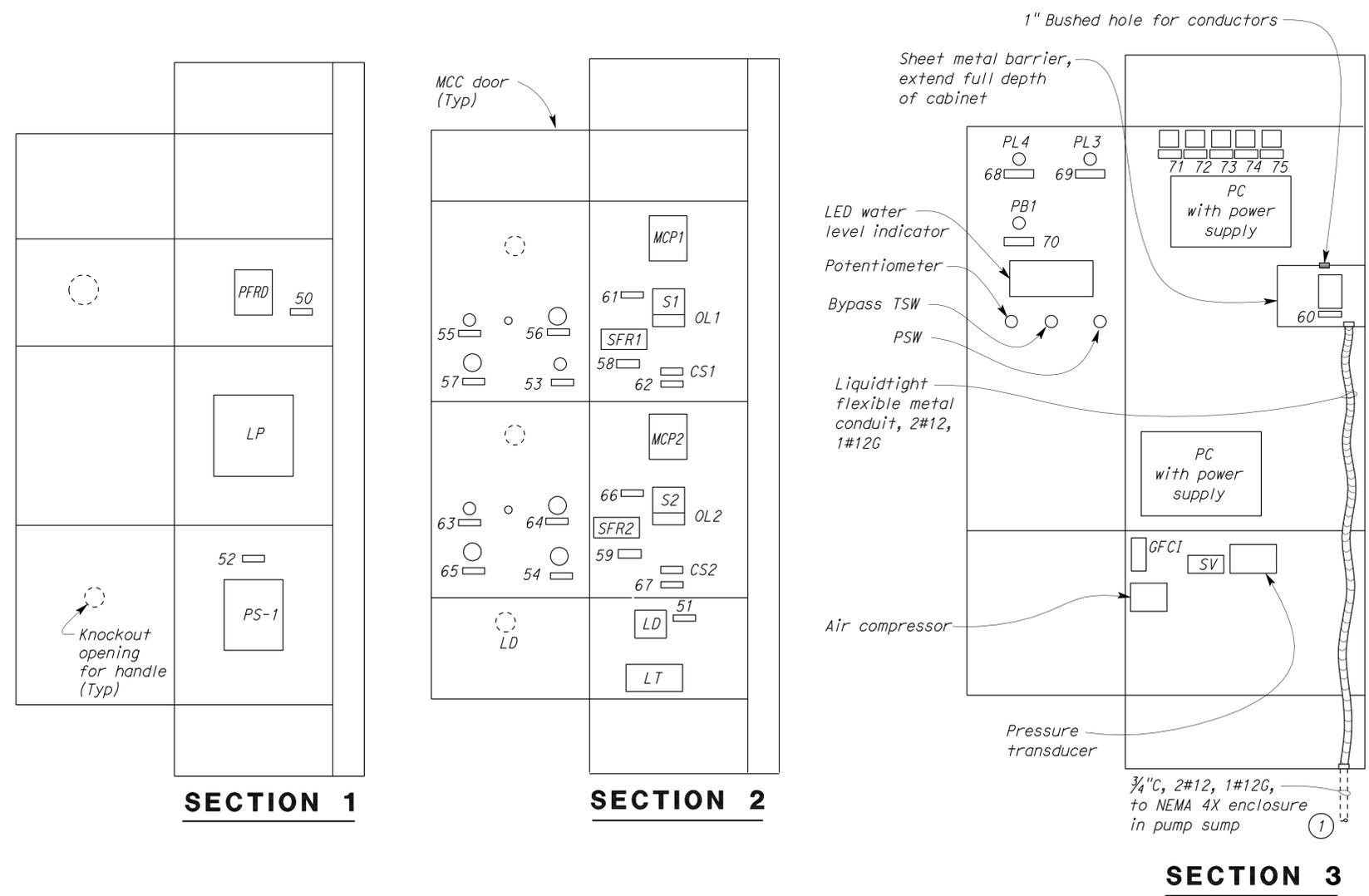
  

 REGISTERED ELECTRICAL ENGINEER DATE 10-20-11	
3-26-12 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	

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

Reviewed by:   
 FRANCIS SOLICH  
 Approval date: 08-04-11

Note:  
 ① All conduits are not shown for clarity.



ITEM NO.	INSCRIPTION	LETTER HEIGHT
50	PFRD	1/8"
51	LD	1/8"
52	PS	1/8"
53	PL5	1/8"
54	PL6	1/8"
55	PL1	1/8"
56	SS1	1/8"
57	TM1	1/8"
58	SFR1	1/8"
59	SFR2	1/8"
60	ISR	1/8"
61	ST1	1/8"
62	CS1	1/8"
63	PL2	1/8"
64	SS2	1/8"
65	TM2	1/8"
66	ST2	1/8"
67	CS2	1/8"
68	PL4	1/8"
69	PL3	1/8"
70	PB1	1/8"
71	TDR	1/8"
72	CR1	1/8"
73	CR2	1/8"
74	CR3	1/8"
75	CR4	1/8"

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i> QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0115W	<b>EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS</b> MOTOR CONTROL CENTER DETAILS	SHEET <b>EE1-11</b> OF
			POST MILE		EAST STOCKTON UNDERPASS PUMPING PLANT REVISION DATES (PRELIMINARY STAGE ONLY) 12/28/10 7/8/11 8/16/11 10/20/11
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3A1001		

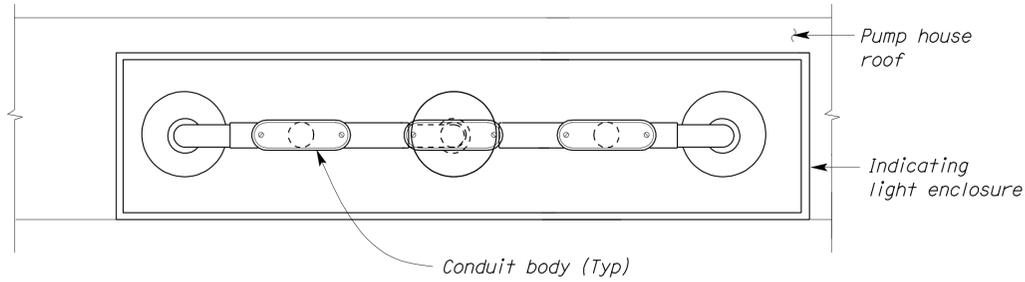
28-MAR-2012 14:58 ee1\_11.dgn



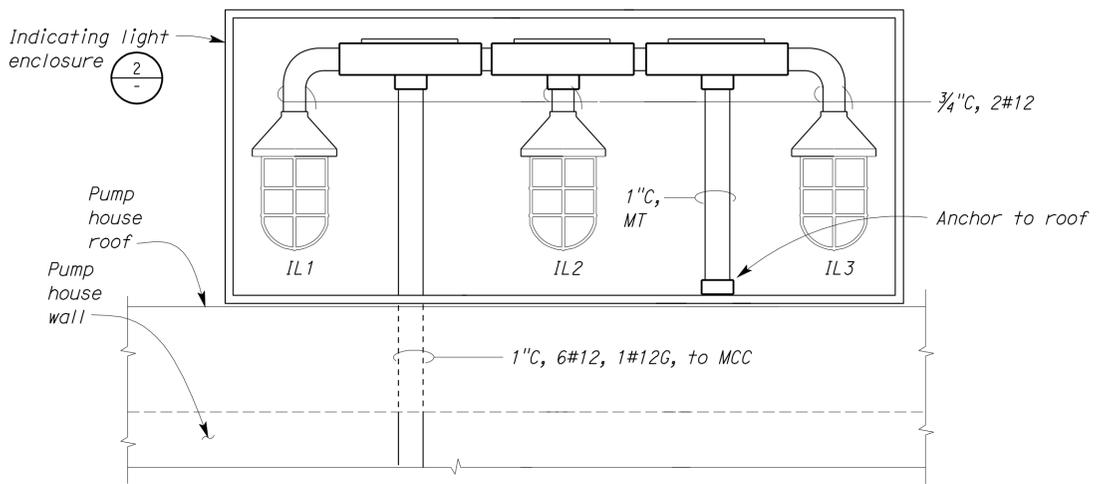
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: FRANCIS SOLICH  
Approval date: 08-04-11

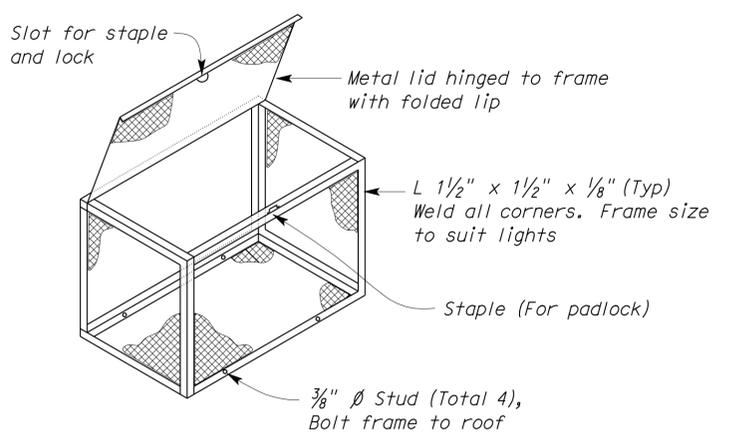


**PLAN**

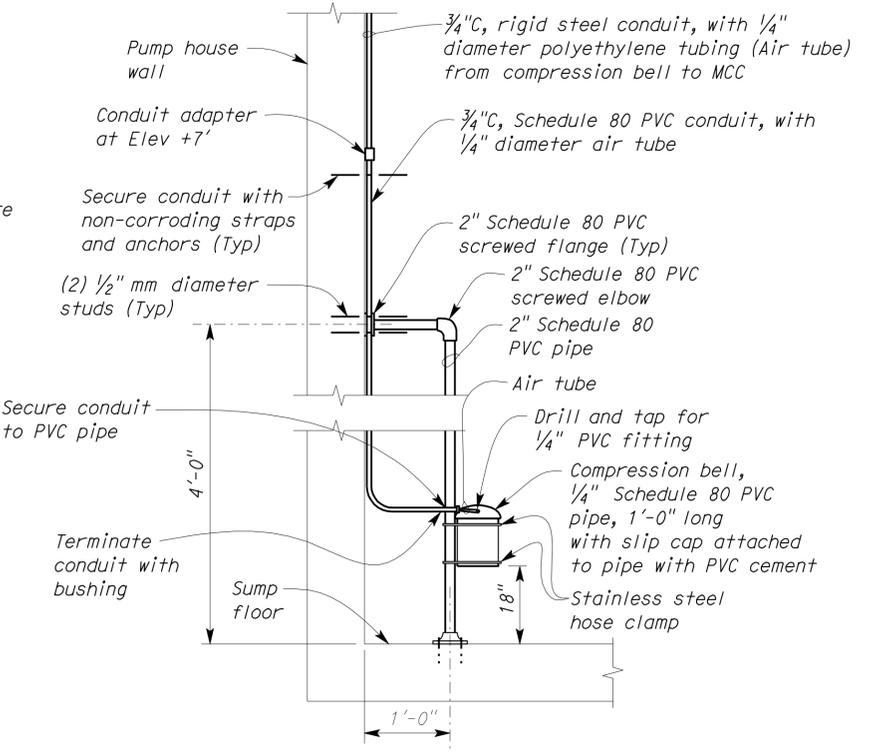


**ELEVATION**

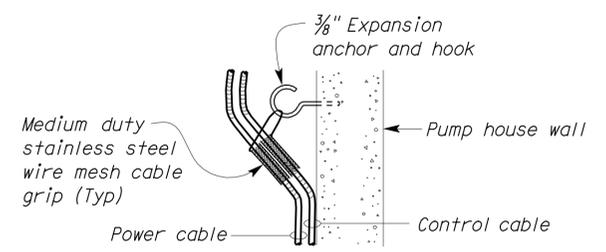
**1 INDICATING LIGHTS MOUNTING DETAIL**  
NO SCALE



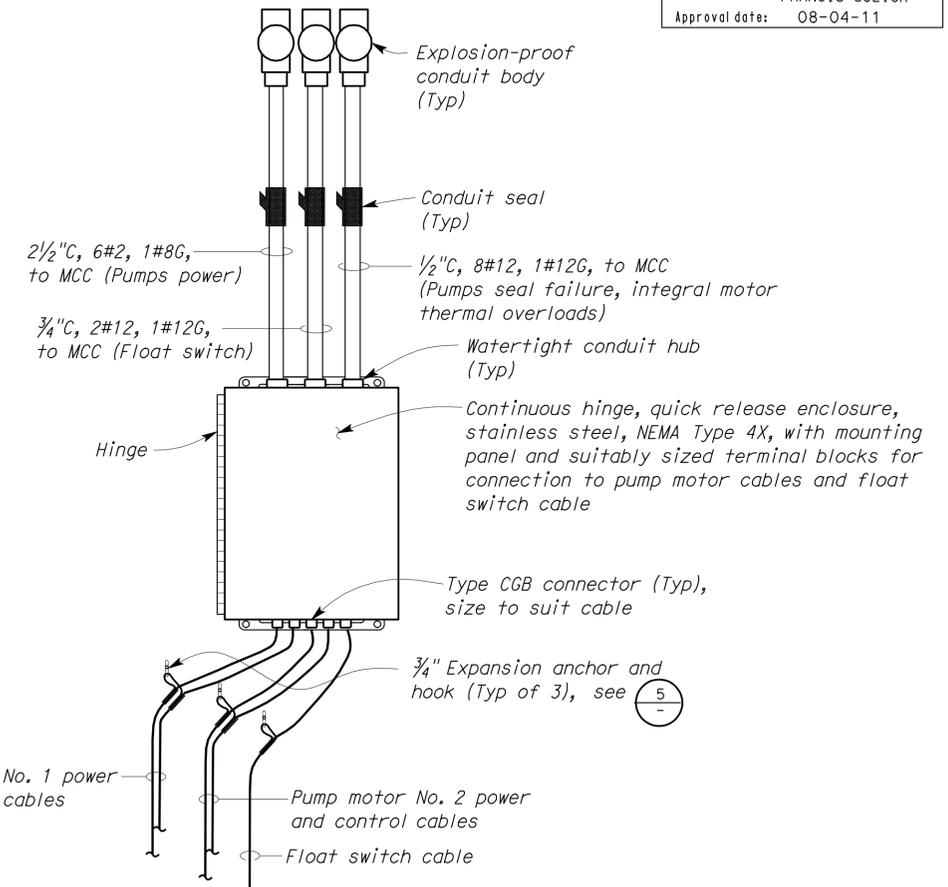
**2 INDICATING LIGHT ENCLOSURE**  
NO SCALE



**AIR TUBE AND COMPRESSION BELL MOUNTING DETAIL**  
NO SCALE



**5 DETAIL**  
NO SCALE



**4 DETAIL**  
NO SCALE

DESIGN	BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	29-0115W	EAST STOCKTON UNDERPASS PUMPING PLANT	SHEET <b>EE1-12</b>						
	DETAILS	BY	Kathi Andreasen	CHECKED			Beatrice Bindu	POST MILE								
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Tech Ngov	REVISION DATES (PRELIMINARY STAGE ONLY)								
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT PROJECT NUMBER & PHASE	3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	12/28/10	7/24/11	8/16/11	10/20/11	SHEET OF

28-MAR-2012 14:58 ee1\_12.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1401	1414

*Beatrice Bindu*  
 REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12  
 PLANS APPROVAL DATE

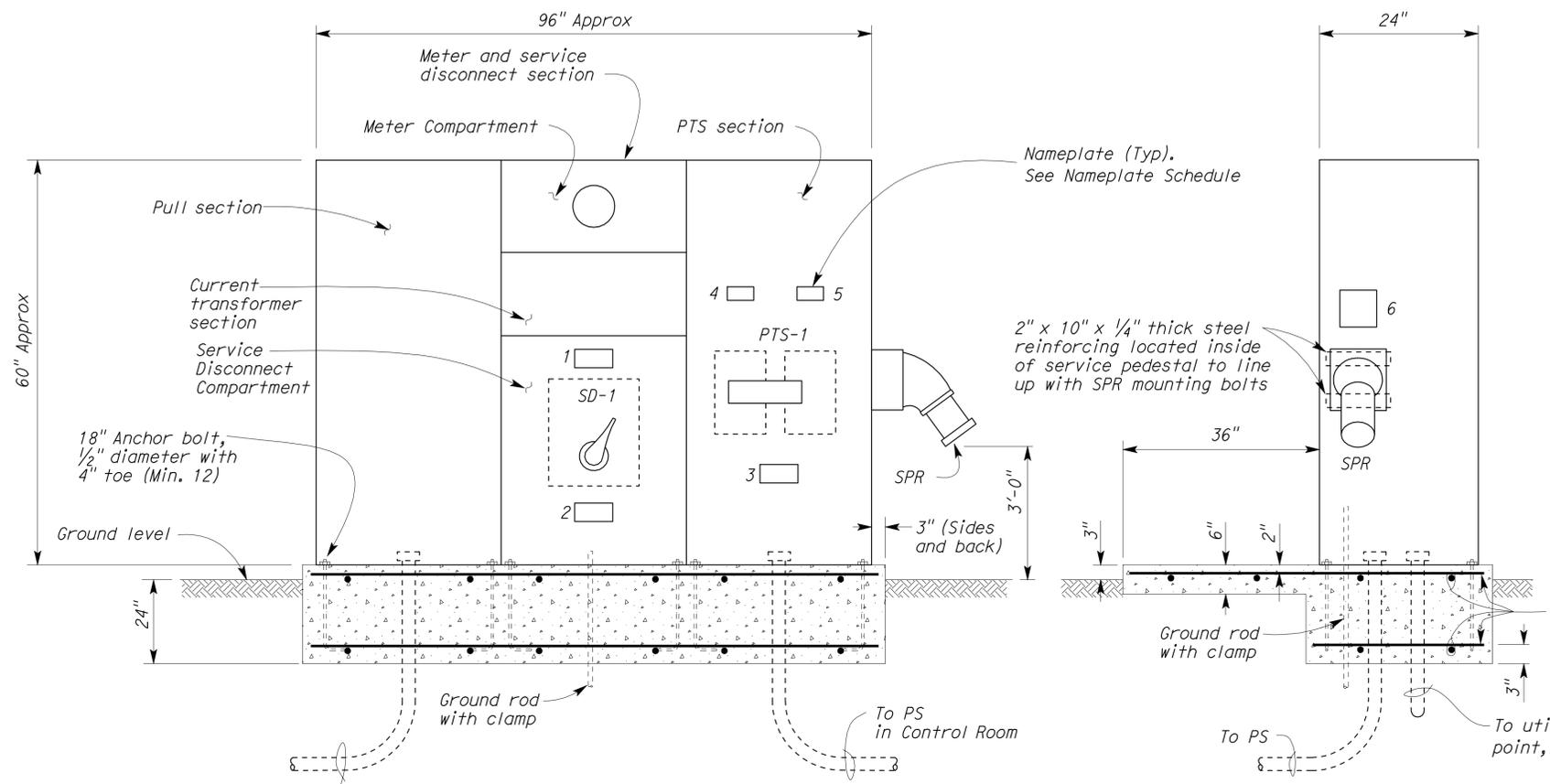
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: *Francis Solich*  
 FRANCIS SOLICH  
 Approval date: 08-04-11



ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	480/277-VOLT, 3-PHASE, 4-WIRE, 400-AMPERE	1/4"
2	SERVICE DISCONNECT	1/4"
3	POWER TRANSFER SWITCH	1/4"
4	UTILITY	1/4"
5	STANDBY GENERATOR	1/4"

ITEM NO.	INSCRIPTION	LETTER HEIGHT
6	480 VOLTS, 3- PHASE ONLY	1/4"

**FRONT VIEW**

**SIDE VIEW**

**1 SERVICE PEDESTAL-1**  
 NO SCALE

(Exterior door not shown for clarity)

**General Note:**  
 Seismic bracing for the Service Pedestal shall be installed per the Manufacturer's recommendations to meet or exceed seismic zone 4 requirements.

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i> QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0115W POST MILE EAST STOCKTON UNDERPASS PUMPING PLANT	EAST STOCKTON UNDERPASS PUMPING PLANT SERVICE PEDESTAL DETAIL	SHEET OF <b>EE1-13</b>
	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12/28/10 1/25/11 4/25/11 7/24/11 8/16/11 10/20/11	SHEET OF	OF	OF

28-MAR-2012 14:58 ee1\_13.dgn



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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

#### INDOOR LIGHTING SCHEDULE and FIELD ENERGY CHECKLIST

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

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST			Field Inspector	
Type/Description	Number of Units	Location in Building	Pass	Fail
NOT APPLICABLE			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Field Inspectors' Notes or Discrepancies:

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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	=	Adjusted Installed Lighting Power	= 234
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)		Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	252

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

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

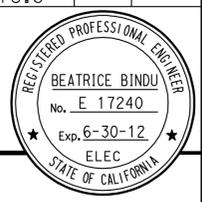
Luminaires Controlled			LTG-2A and LTG-3A
Equipment Requiring Testing	Description	Number of Like Controls	Location
			Controls and Sensors and Automatic Daylighting Controls Acceptance
			<input type="checkbox"/>

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1403	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12 PLANS APPROVAL DATE

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



**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by: FRANCIS SOLICH  
 Approval date: 08-04-11

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

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

Project Address: HWY 99 and CHARTER WAY INTERSECTION STOCKTON, CA 95206 Total Hardscape Illuminated Area: 650

General Information  
Phase of Construction:  New Construction  Addition  Alteration

Documentation Author's Declaration Statement  
I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: BEATRICE BINDU Signature: *Beatrice Bindu*  
Company: CALTRANS Date: 4/29/2011  
Address: 1801 30TH STREET If applicable: CEA # CEPE #  
City/State/Zip: SACRAMENTO, CA 95816 Phone: (916) 227-8764

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

Name: BEATRICE BINDU Signature: *Beatrice Bindu*  
Company: CALTRANS Phone: (916) 227-8764  
Address: 1801 30TH STREET License # E 17240  
City/State/Zip: SACRAMENTO, CA 95816 Date: 4/29/2011

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

Outdoor Lighting Mandatory Measures  
Indicate location on building plans of Mandatory Measures Note Block: N/A

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

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

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

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

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

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

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS Date: 4/29/2011

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

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

Luminaire Schedule				Installed Watts				Field Inspector 2		
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire 1	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Pass	Fail
					Default from NA-8	According to S 130 (d or e)				
HP1	POLE-TOP 310 WATT HIGH PRESSURE SODIUM	✓	310	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	310	<input type="checkbox"/>	<input type="checkbox"/>
HP1	ENTRY LIGHT H1-1 X 150		150	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		150	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								460		

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

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

EXEMPT LUMINAIRES Field Inspection

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

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location

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

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

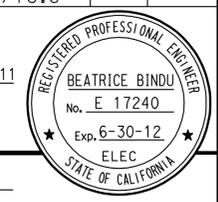
Field Inspector Notes or Discrepancies:

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1404	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12 PLANS APPROVAL DATE

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



CALIFORNIA STATE FIRE MARSHAL APPROVED

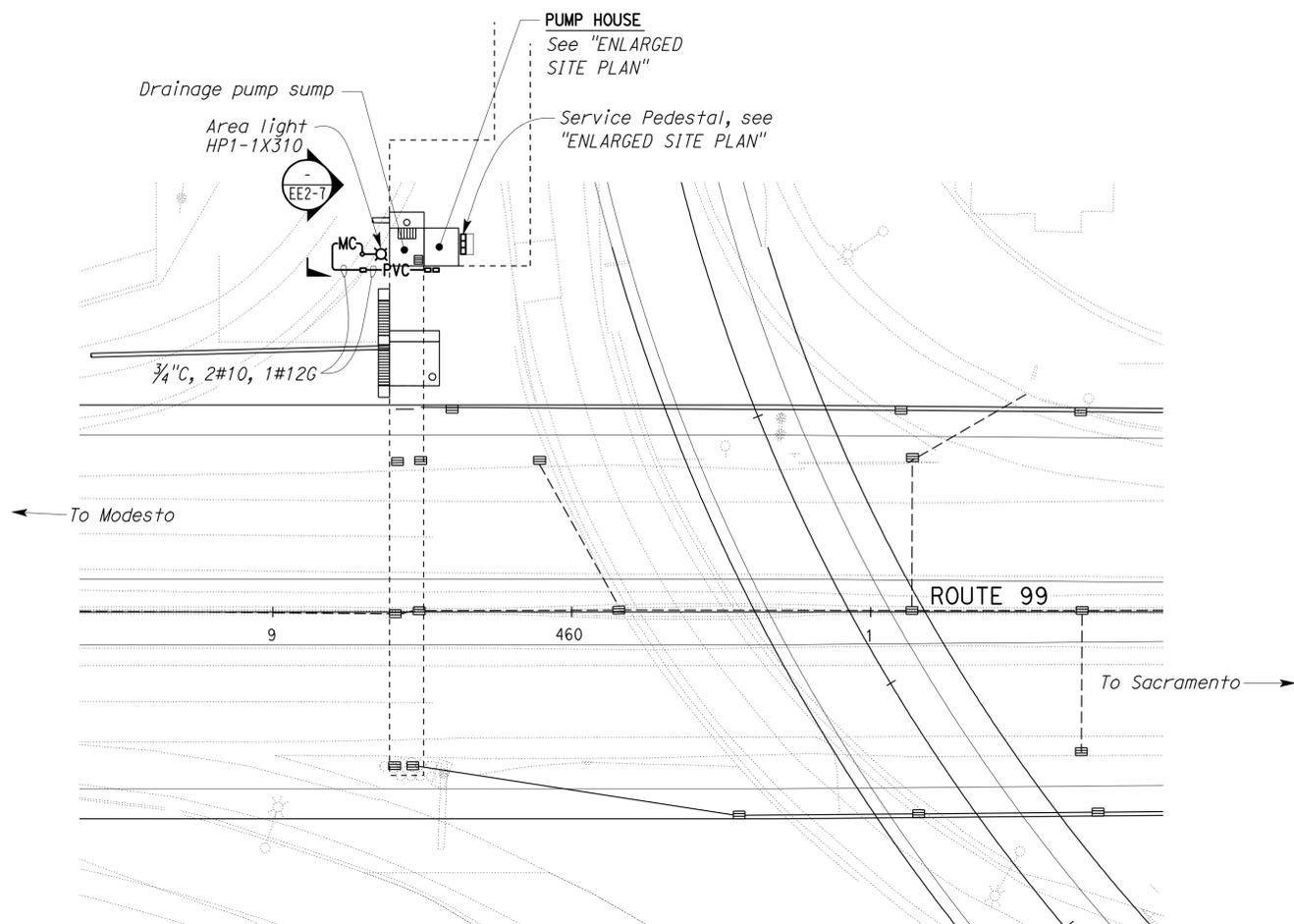
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: FRANCIS SOLICH

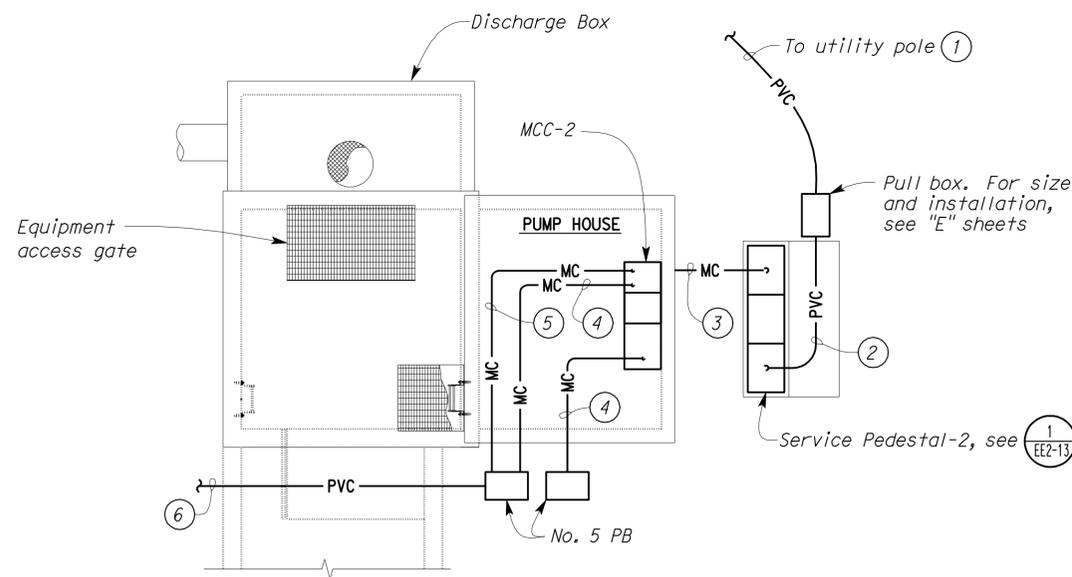
Approval date: 08-04-11

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE NO. 29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS SHEET EE2-3		
DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN			
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>		ROUTE 26/99 SEPARATION PUMPING PLANT TITLE 24 COMPLIANCE NO. 3			
TAEMWW Imperial Rev. 7/10	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF





**SITE PLAN**  
SCALE 1" = 30'-0"



**ENLARGED SITE PLAN**  
SCALE 1" = 5'-0"

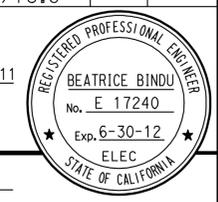
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: FRANCIS SOLICH  
Approval date: 08-04-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1406	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12  
PLANS APPROVAL DATE

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



- Notes:
- For the exact location of the utility pole, installation of conduits and conductors, see District Electrical plans ("E" sheets).
  - 4" PVC, MT, conductors per Utility Company requirements.
  - 4" MC, 3#250 MCM, 1#2G, to MCC. For continuation, see sheet EE2-7.
  - 1/2" MC (Spare).
  - 3/4" MC, 2#10, 1#12G (Area light).
  - 3/4" MC, 2#10, 1#12G, to area light pull box.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>
DESIGN ENGINEER	BY <i>Kathi Andreasen</i>	CHECKED <i>Beatrice Bindu</i>
	BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>

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

BRIDGE NO.	29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS	ELECTRICAL SITE PLAN	SHEET EE2-5
POST MILE				
UNIT PROJECT NUMBER & PHASE		REVISION DATES (PRELIMINARY STAGE ONLY)		
3597 10000004091		3/7/11 4/7/11 4/7/11 7/8/11 8/7/11 10/20/11		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1407	1414

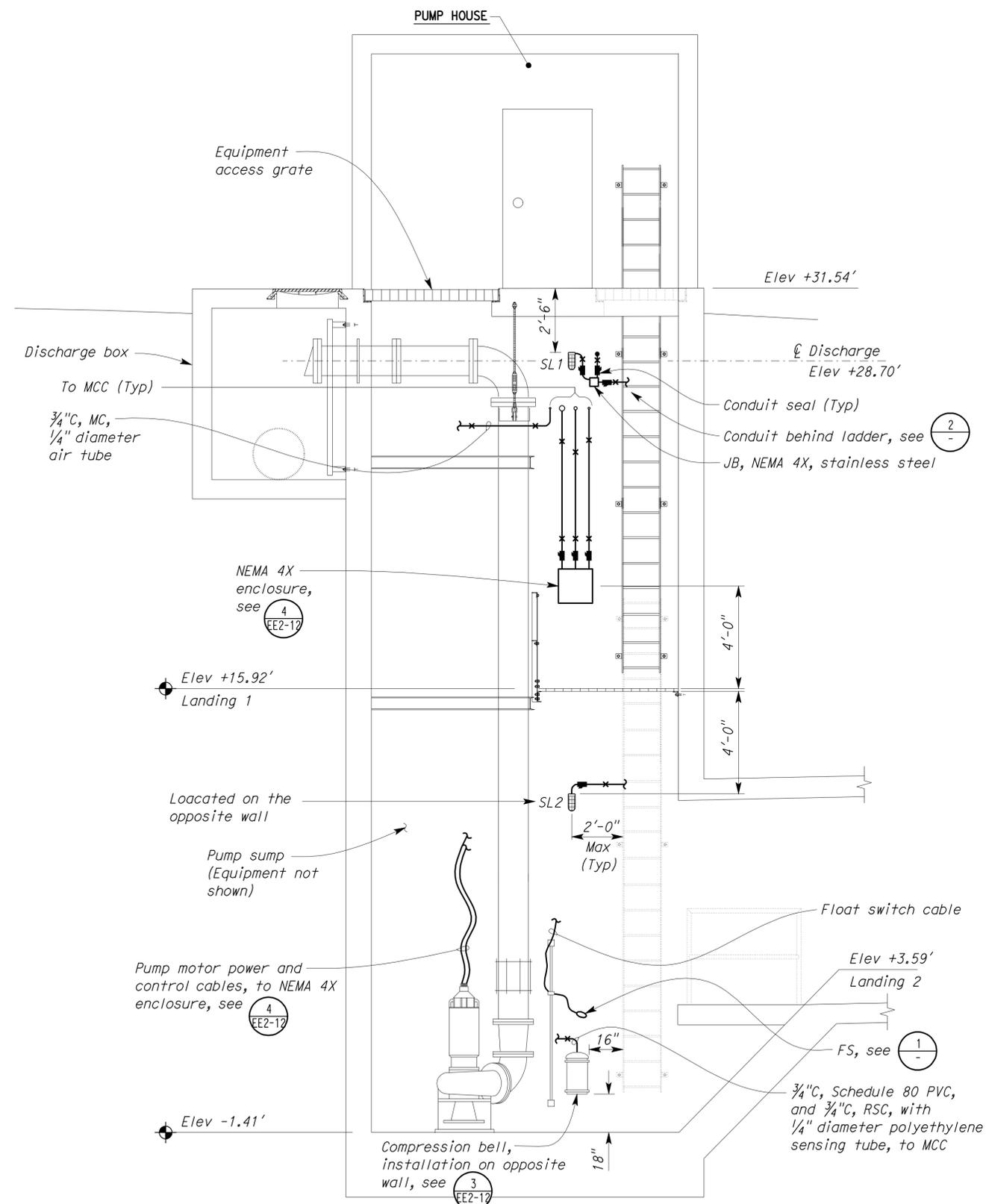
  

 REGISTERED ELECTRICAL ENGINEER DATE 10-20-11	
3-26-12 PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	

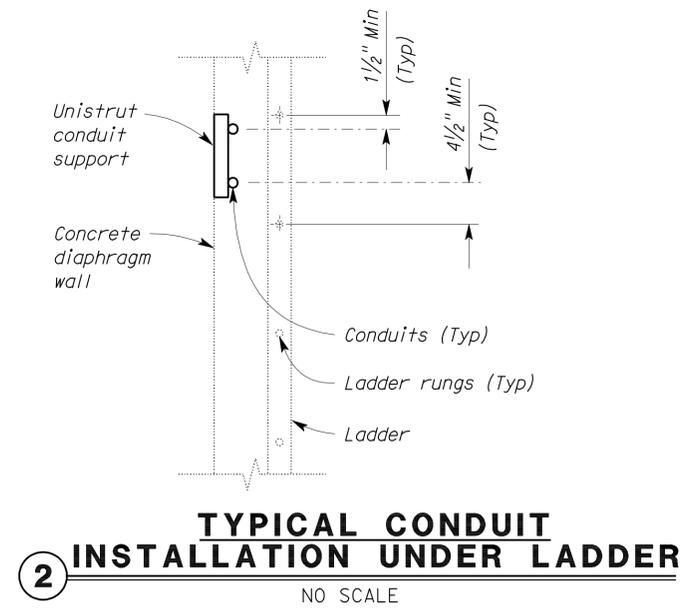
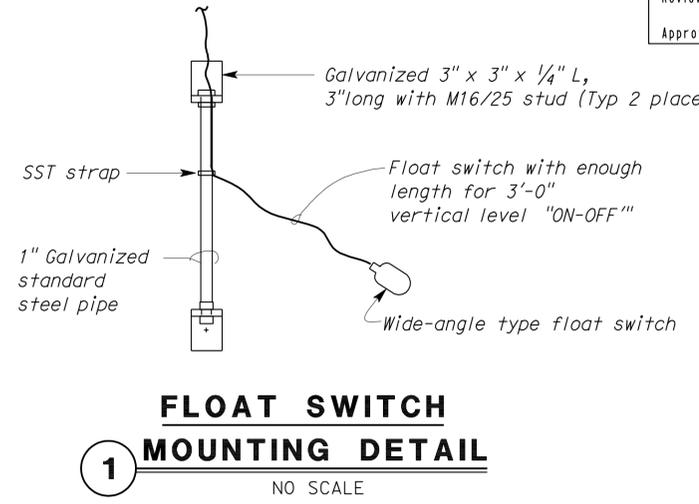
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by:   
FRANCIS SOLICH  
Approval date: 08-04-11



**A SECTION**  
SCALE 3/8" = 1'-0"



**General Note:**

A. For pump control levels, see Mechanical plans.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Beatrice Bindu	CHECKED Tech Ngov
DETAILS	BY Kathi Andreasen	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Tech Ngov

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 29-0120W  
POST MILE

**EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS**

ROUTE 26/99 SEPARATION PUMPING PLANT

PUMPING PLANT SECTION

SHEET EE2-6 OF

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

UNIT PROJECT NUMBER & PHASE 3597 10000004091

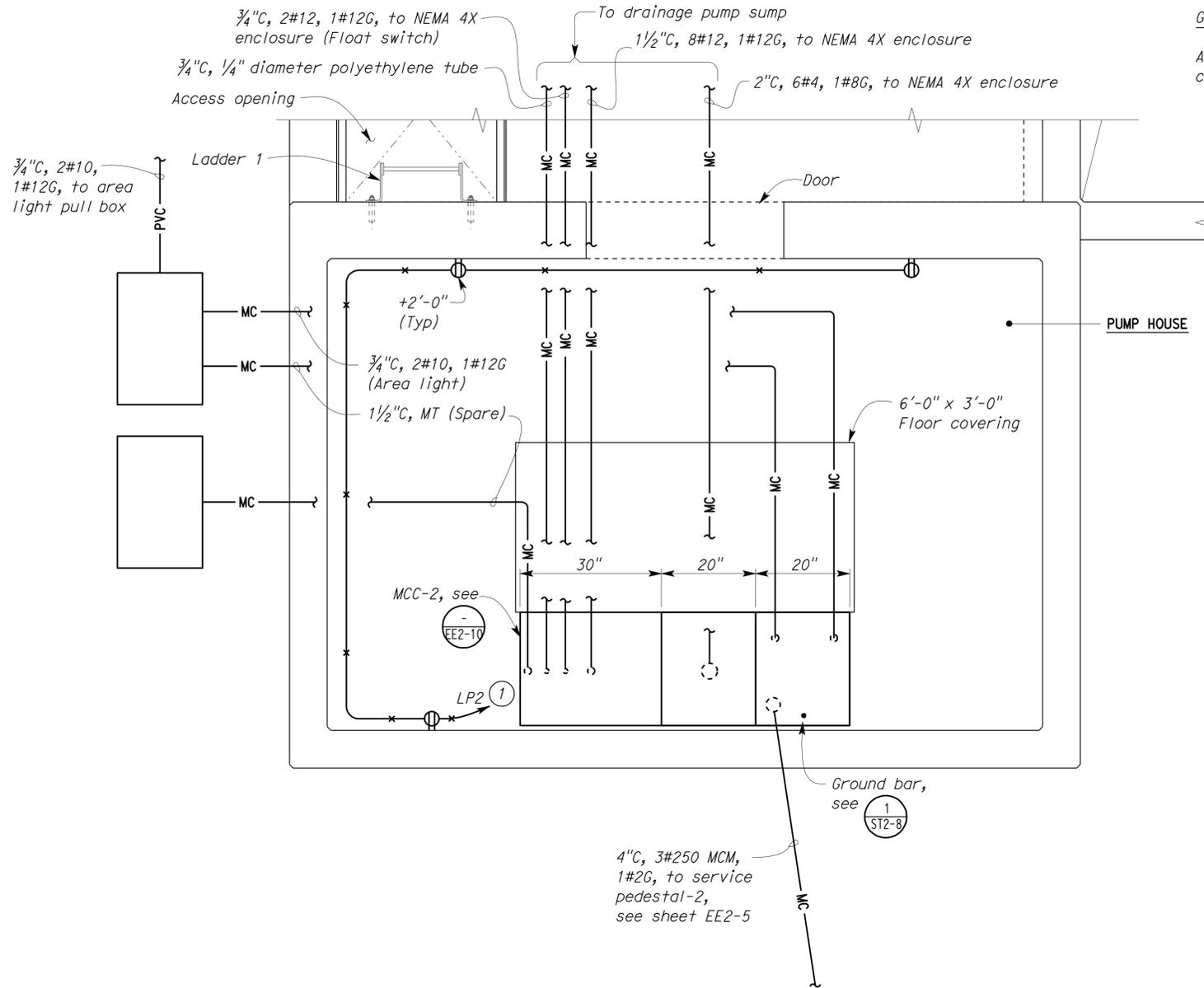
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)
1/7/01   1/7/01   1/28/01   4/7/01   4/28/01   7/7/01   8/7/01   10/20/11

SHEET OF

ee2\_06.dgn

28-MAR-2012 14:59



**General Note:**  
All conduits to pump sump shall be PVC coated rigid steel conduits.

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: FRANCIS SOLICH  
Approval date: 08-04-11

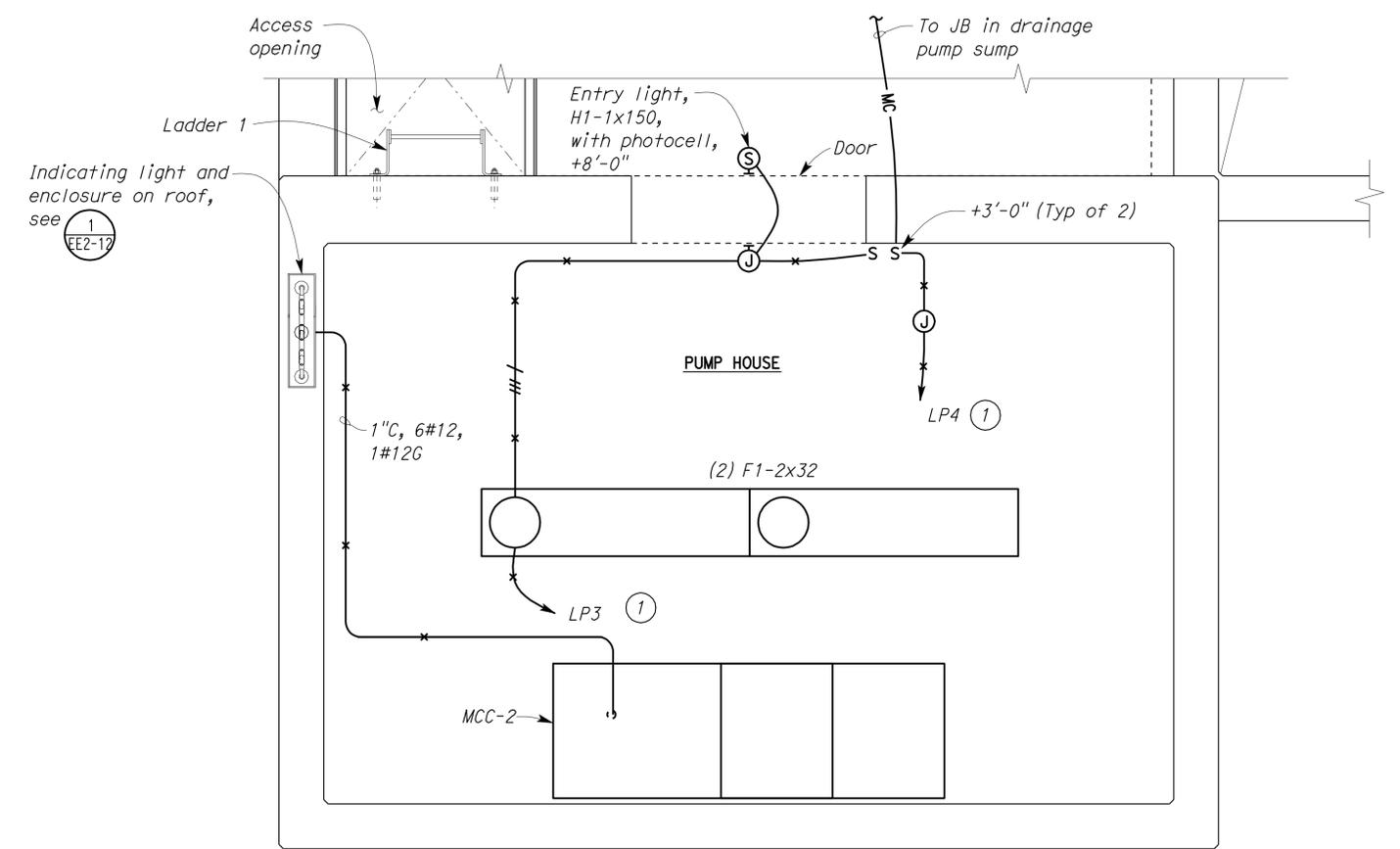
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1408	1414

REGISTERED ELECTRICAL ENGINEER: BEATRICE BINDU, No. E 17240, Exp. 6-30-12, ELEC, STATE OF CALIFORNIA

PLANS APPROVAL DATE: 3-26-12

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

**Note:**  
① Panel LP is inside MCC, section 1.



**A POWER PLAN**  
SCALE 3/4" = 1'-0"

**B LIGHTING PLAN**  
SCALE 3/4" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Beatrice Bindu	CHECKED Tech Ngov
DETAILS	BY Kathi Andreasen	CHECKED Beatrice Bindu
QUANTITIES	BY Beatrice Bindu	CHECKED Tech Ngov

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 29-0120W  
POST MILE

**EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS**  
CONTROL ROOM PLAN

SHEET EE2-7

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3597 10000004091

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

28-MAR-2012 14:59 ee2\_07.dgn

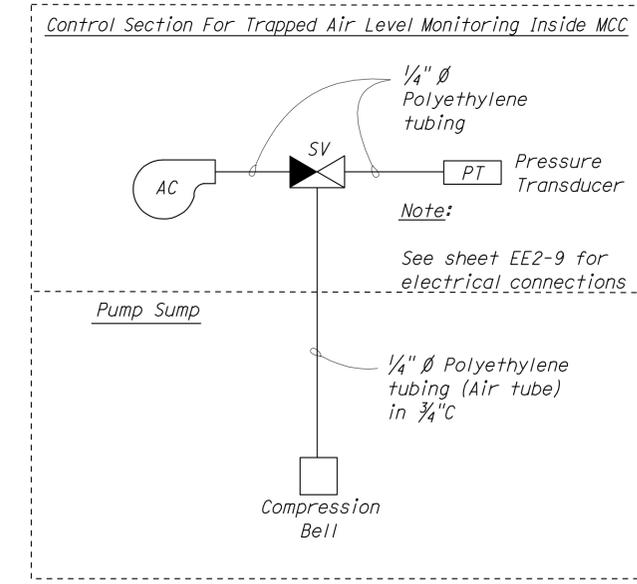
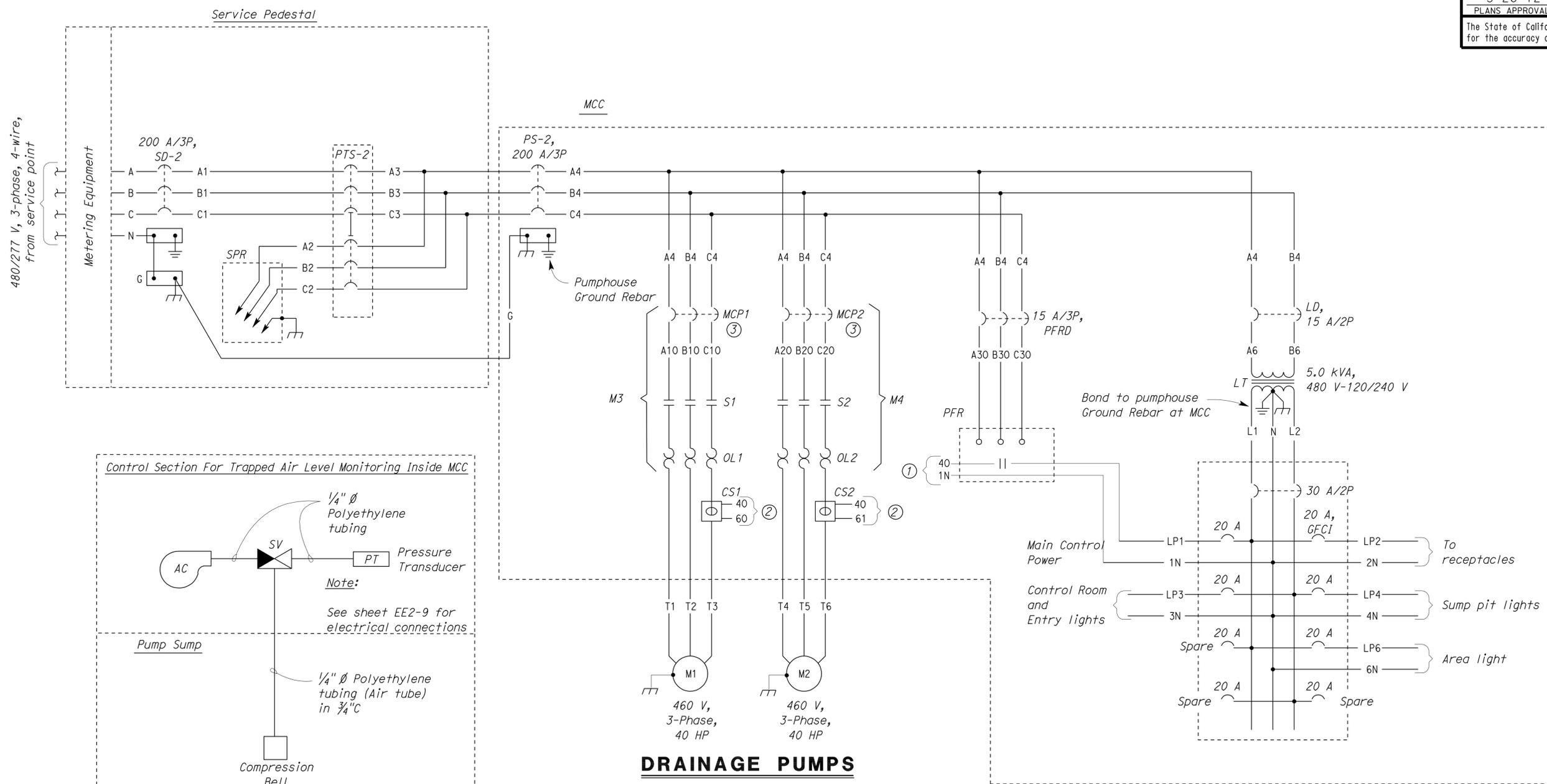
**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: FRANCIS SOLICH  
 Approval date: 08-04-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1409	1414

REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

3-26-12  
PLANS APPROVAL DATE

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



**TRAPPED AIR LEVEL MONITORING SYSTEM SCHEMATIC**

- Notes:
- ① Pump Controls. For continuation see sheet EE2-9.
  - ② For continuation see sheet EE2-9.
  - ③ Trip rating is recommended by the pump motor manufacturer

DESIGN BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS POWER SCHEMATIC DIAGRAM	SHEET <b>EE2-8</b>				
				POST MILE			REVISION DATES (PRELIMINARY STAGE ONLY)			
DETAILS BY <i>Kathi Andreasen</i>	CHECKED <i>Beatrice Bindu</i>	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	12/28/10	2/24/11	7/24/11	8/26/11	10/20/11	SHEET OF	
QUANTITIES BY <i>Beatrice Bindu</i>	CHECKED <i>Tech Ngov</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	3A1001							ee2_08.dgn

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: FRANCIS SOLICH  
 Approval date: 08-04-11

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1410	1414

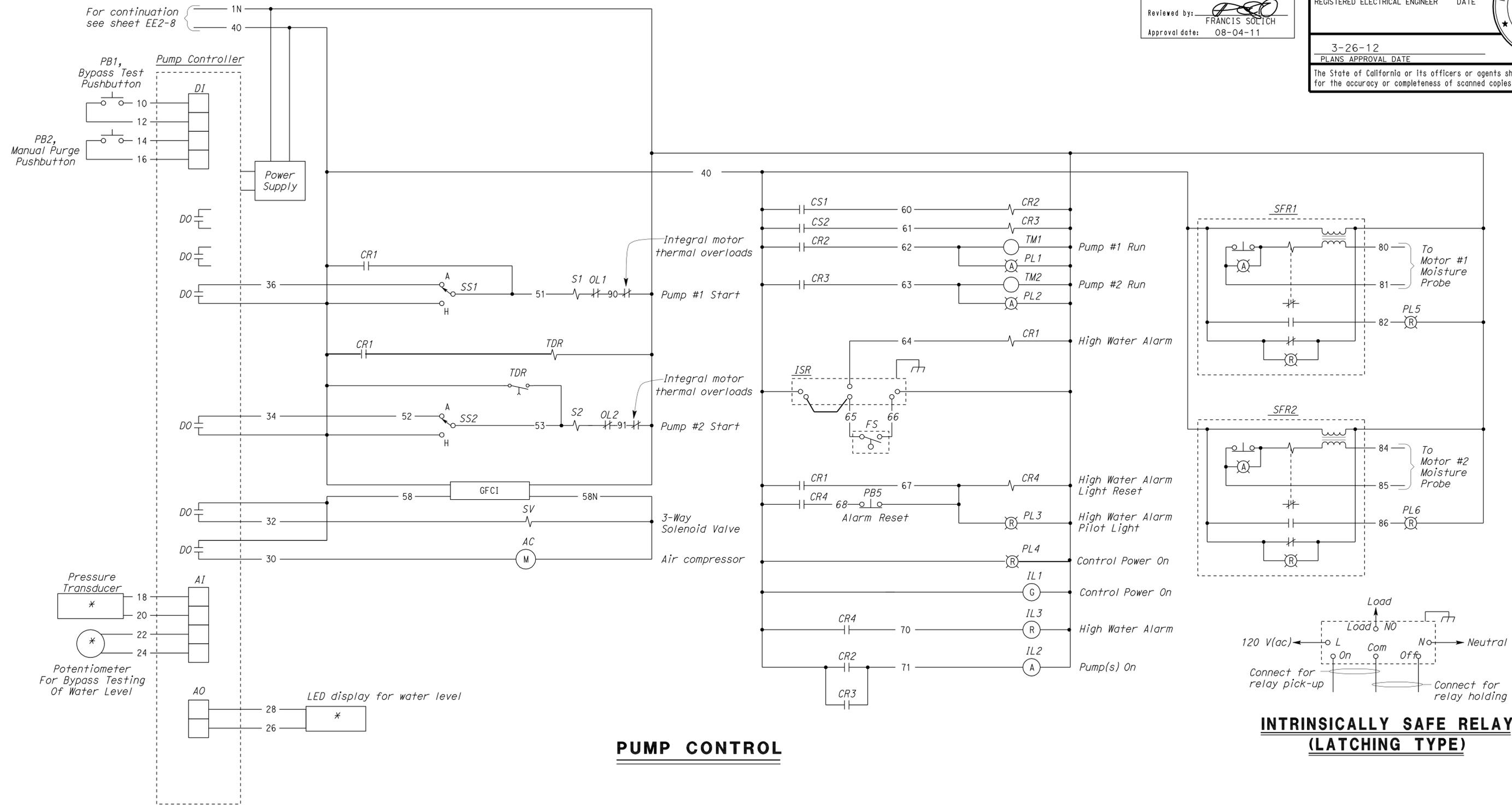
  

REGISTERED ELECTRICAL ENGINEER		DATE
BEATRICE BINDU		10-20-11
No. E 17240		
Exp. 6-30-12		
ELEC		
STATE OF CALIFORNIA		

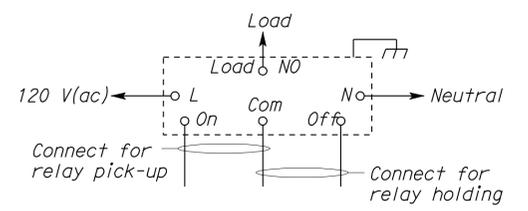
3-26-12  
 PLANS APPROVAL DATE

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



**PUMP CONTROL**

**INTRINSICALLY SAFE RELAY (LATCHING TYPE)**



\* Provide voltage source as required

DESIGN	BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS STORM WATER PUMPS CONTROL SCHEMATIC DIAGRAM	SHEET EE2-9	
	DETAILS	BY	Kathi Andreasen	CHECKED			Beatrice Bindu	POST MILE			
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Tech Ngov	REVISION DATES (PRELIMINARY STAGE ONLY)			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
UNIT PROJECT NUMBER & PHASE					3597	10000004091	3A1001		REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEMWW Imperial Rev. 7/10									SHEET OF		

28-MAR-2012 15:00  
 ee2\_09.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1411	1414

  
 REGISTERED ELECTRICAL ENGINEER DATE 10-20-11  
 BEATRICE BINDU  
 No. E 17240  
 Exp. 6-30-12  
 ELEC  
 STATE OF CALIFORNIA

3-26-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

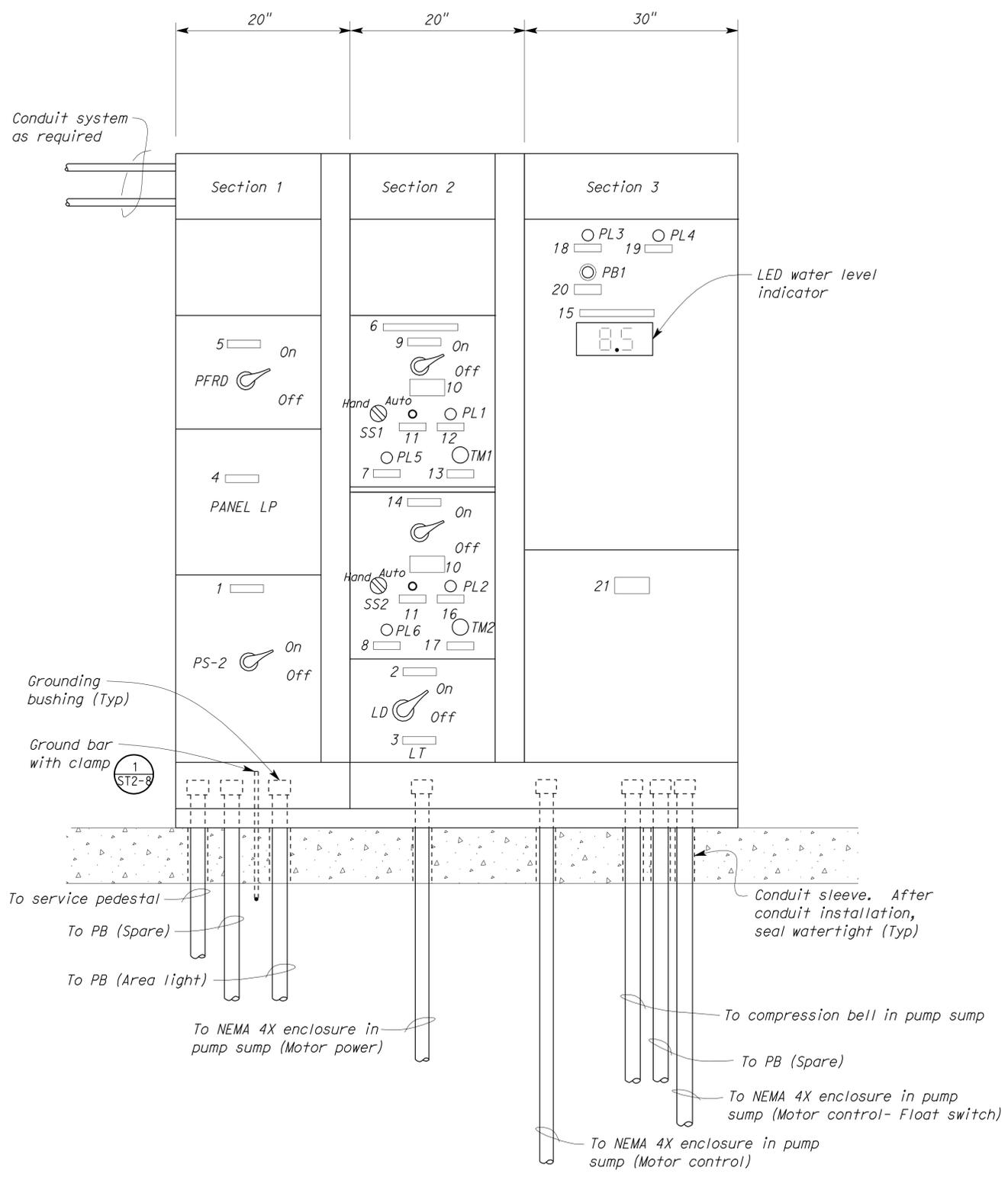
**CALIFORNIA STATE FIRE MARSHAL APPROVED**

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

Reviewed by:   
 Approval date: 08-04-11

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
1	MAIN DISCONNECT	1/4"
2	TRANSFORMER DISCONNECT	1/4"
3	LIGHTING TRANSFORMER. 480-120/240 V, 5 KVA	1/4"
4	PANEL LP 120/240 V - SINGLE PHASE	1/4"
5	PHASE FAILURE RELAY DISCONNECT	1/4"
6	DRAINAGE PUMPS	1/4"
7	SEAL FAILURE PUMP No. 1	1/8"
8	SEAL FAILURE PUMP No. 2	1/8"
9	PUMP No. 1 DISCONNECT	1/4"
11	OVERLOAD RESET	1/8"
12	PUMP No. 1 ON	1/8"
13	PUMP No. 1 RUN TIME	1/8"
14	PUMP No. 2 DISCONNECT	1/4"
15	PUMPS CONTROLLER	
16	PUMP No. 2 ON	1/8"
17	PUMP No. 2 RUN TIME	1/8"
18	HIGH WATER ALARM	1/8"
19	CONTROL POWER ON	1/8"
20	HIGH WATER ALARM RESET	1/8"

WARNING PLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT
10	WARNING: MOTOR DISCONNECT DOES NOT OPEN CONTROL CIRCUIT	1/4"
21	TO DISCONNECT POWER IN THIS SECTION TURN OFF CIRCUIT BREAKER LP1	1/4"



**MOTOR CONTROL CENTER-2**  
 NO SCALE  
 (For details see sheet EE2-11)

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i> QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W	<b>EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS</b> ROUTE 26/99 SEPARATION PUMPING PLANT MOTOR CONTROL CENTER	SHEET <b>EE2-10</b> OF	
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			UNIT PROJECT NUMBER & PHASE 3597 10000004091		DISREGARD PRINTS BEARING EARLIER REVISION DATES → 12/28/10 7/24/11 8/16/11 10/20/11	3A1001

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 10000004091 DISREGARD PRINTS BEARING EARLIER REVISION DATES → 12/28/10 7/24/11 8/16/11 10/20/11 SHEET OF 3A1001 ee2\_10.dgn

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by: *Francis Solich*  
 FRANCIS SOLICH  
 Approval date: 08-04-11

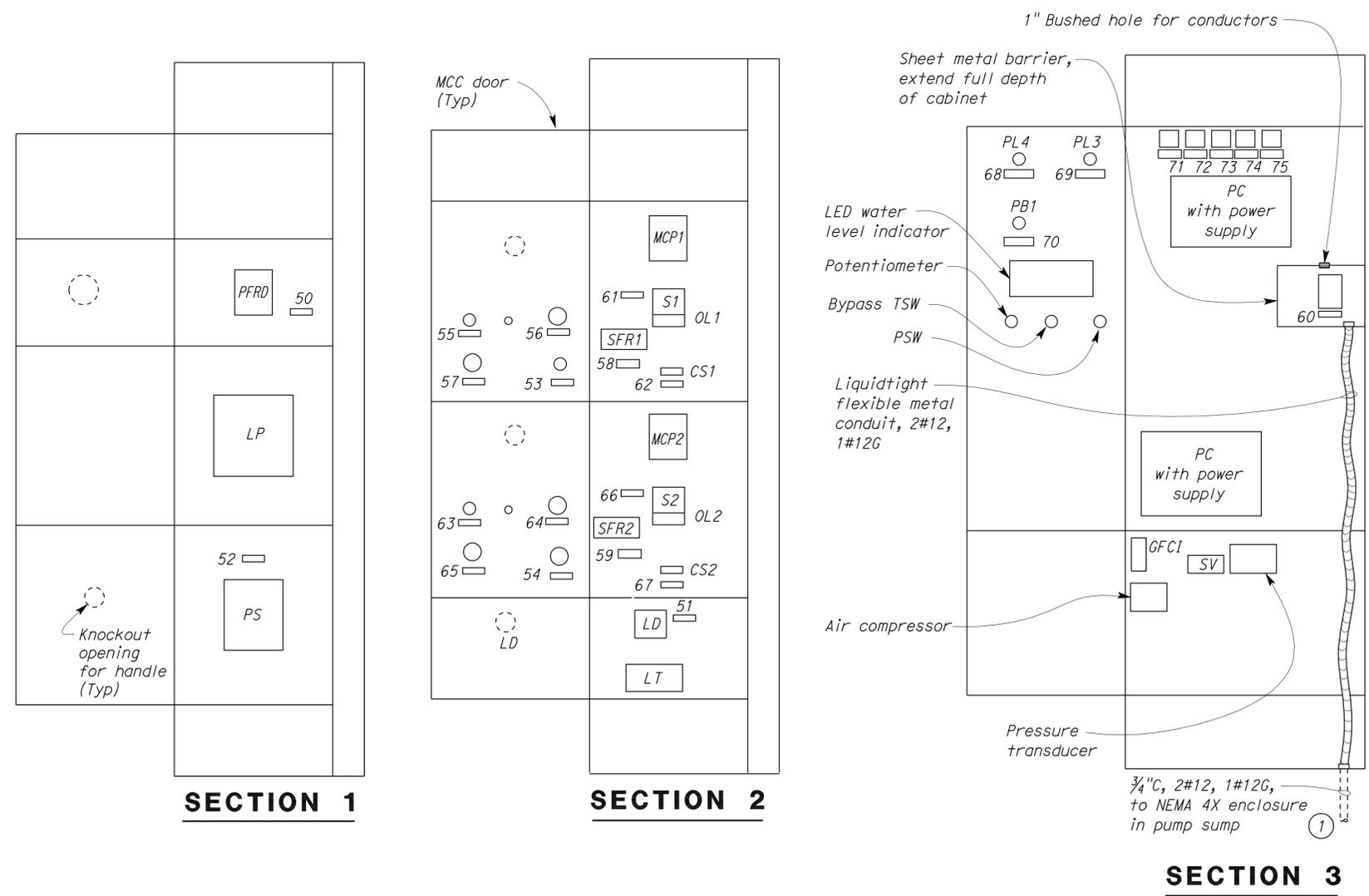
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1412	1414

REGISTERED ELECTRICAL ENGINEER *Beatrice Bindu* DATE 10-20-11

3-26-12  
PLANS APPROVAL DATE

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

Note:  
 ① All conduits are not shown for clarity.

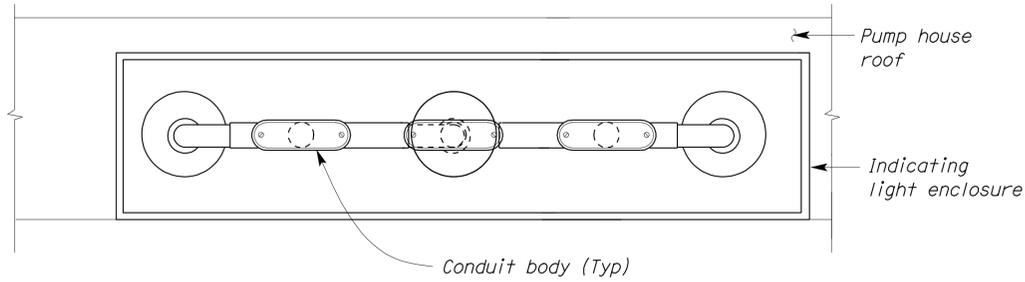


ITEM NO.	INSCRIPTION	LETTER HEIGHT
50	PFRD	1/8"
51	LD	1/8"
52	PS	1/8"
53	PL5	1/8"
54	PL6	1/8"
55	PL1	1/8"
56	SS1	1/8"
57	TM1	1/8"
58	SFR1	1/8"
59	SFR2	1/8"
60	ISR	1/8"
61	ST1	1/8"
62	CS1	1/8"
63	PL2	1/8"
64	SS2	1/8"
65	TM2	1/8"
66	ST2	1/8"
67	CS2	1/8"
68	PL4	1/8"
69	PL3	1/8"
70	PB1	1/8"
71	TDR	1/8"
72	CR1	1/8"
73	CR2	1/8"
74	CR3	1/8"
75	CR4	1/8"

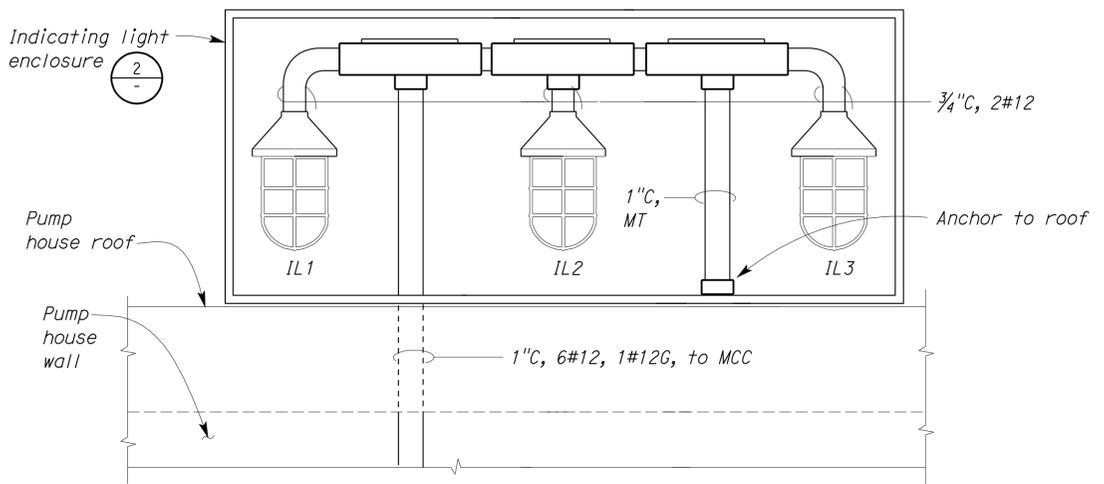
DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS MOTOR CONTROL CENTER DETAILS	SHEET EE2-11 OF
			POST MILE		
DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>				12/28/10 7/24/11 8/16/11 10/20/11	

TAEMWW Imperial Rev. 7/10 3A1001 ee2\_11.dgn

**CALIFORNIA STATE FIRE MARSHAL APPROVED**  
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
 Reviewed by:  FRANCIS SOLICH  
 Approval date: 08-04-11

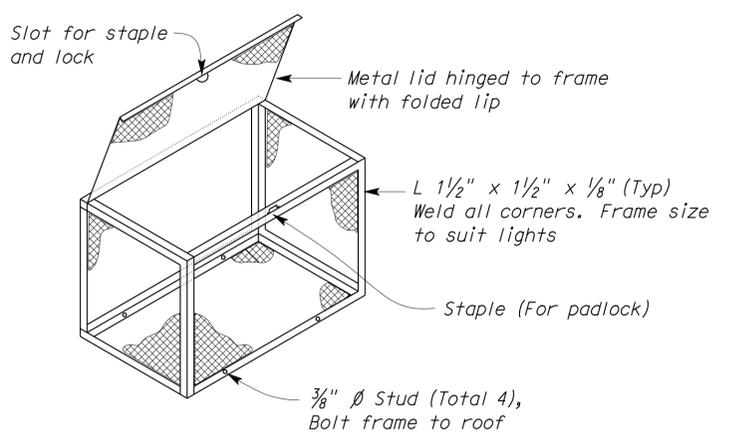


**PLAN**

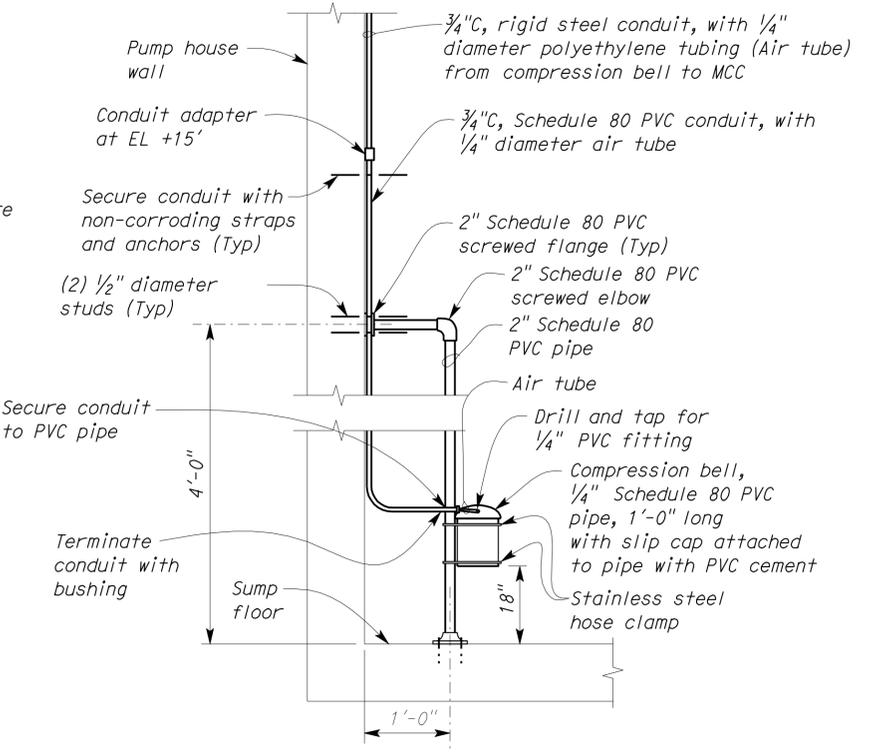


**ELEVATION**

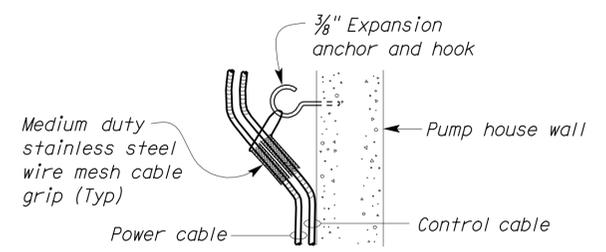
**1 INDICATING LIGHTS MOUNTING DETAIL**  
NO SCALE



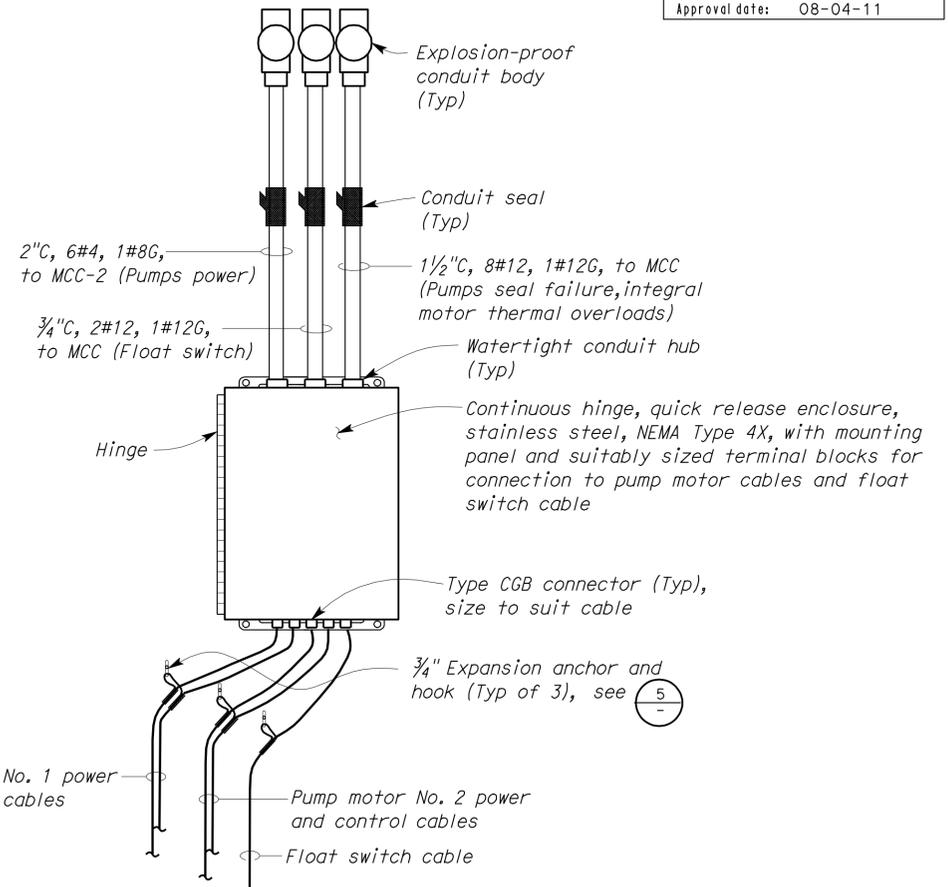
**2 INDICATING LIGHT ENCLOSURE**  
NO SCALE



**3 AIR TUBE AND COMPRESSION BELL MOUNTING DETAIL**  
NO SCALE



**5 DETAIL**  
NO SCALE



**4 DETAIL**  
NO SCALE

DESIGN	BY	Beatrice Bindu	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	29-0120W	EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS DETAILS	SHEET	EE2-12				
	DETAILS	BY	Kathi Andreasen	CHECKED			Beatrice Bindu	POST MILE		ROUTE 26/99 SEPARATION PUMPING PLANT	SHEET	OF			
	QUANTITIES	BY	Beatrice Bindu	CHECKED			Tech Ngov	UNIT PROJECT NUMBER & PHASE		3597 10000004091	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	12/28/10	7/24/11	8/16/11

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 TAEWW Imper-Id Rev. 7/10  
 3A1001  
 ee2\_12.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	R19.5/R20.1, 15.0/18.6	1414	1414

*Beatrice Bindu*  
 REGISTERED ELECTRICAL ENGINEER DATE 10-20-11

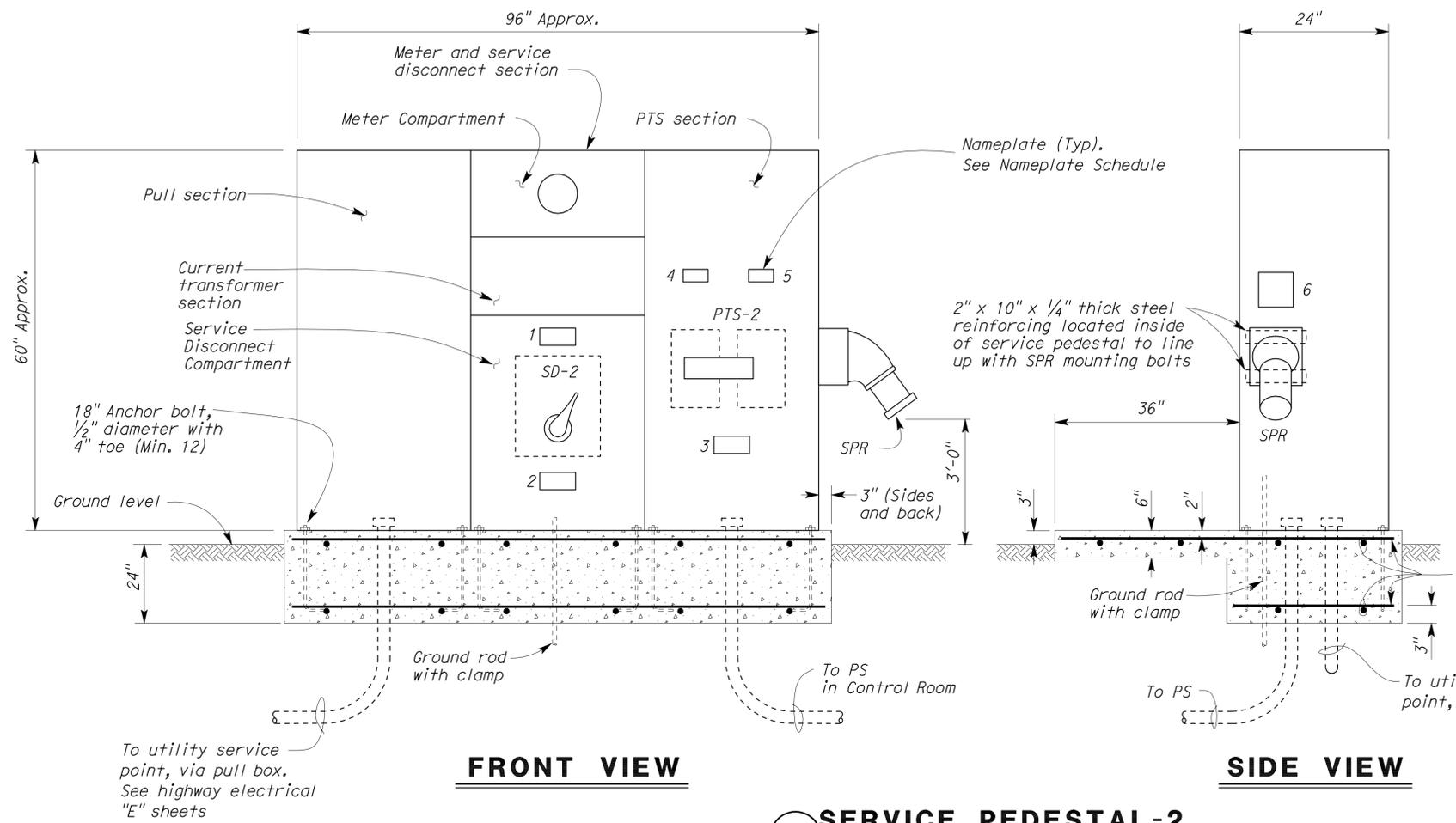
BEATRICE BINDU  
 No. E 17240  
 Exp. 6-30-12  
 ELEC  
 STATE OF CALIFORNIA

3-26-12  
 PLANS APPROVAL DATE

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

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

Reviewed by: *Francis Solich*  
 FRANCIS SOLICH  
 Approval date: 08-04-11



ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	480/277-VOLT, 3-PHASE, 4-WIRE, 200-AMPERE	1/4"
2	SERVICE DISCONNECT	1/4"
3	POWER TRANSFER SWITCH	1/4"
4	UTILITY	1/4"
5	STANDBY GENERATOR	1/4"

ITEM NO.	INSCRIPTION	LETTER HEIGHT
6	480 VOLTS, 3- PHASE ONLY	1/4"

**FRONT VIEW**

**SIDE VIEW**

**1 SERVICE PEDESTAL-2**  
NO SCALE

(Exterior door not shown for clarity)

**General Note:**  
 Seismic bracing for the Service Pedestal shall be installed per the Manufacturer's recommendations to meet or exceed seismic zone 4 requirements.

DESIGN BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Beatrice Bindu</i> QUANTITIES BY <i>Beatrice Bindu</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 29-0120W POST MILE	<b>EAST STOCKTON UNDERPASS AND ROUTE 26/99 SEPARATION PUMPING PLANTS</b>	SHEET <b>EE2-13</b> OF
			PROJECT NUMBER & PHASE 3597 10000004091	SERVICE PEDESTAL DETAIL	REVISION DATES (PRELIMINARY STAGE ONLY) 12/28/10 1/24/11 7/24/11 8/16/11 10/20/11

TAEMWW Imperial Rev. 7/10 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT PROJECT NUMBER & PHASE 3597 10000004091 DISREGARD PRINTS BEARING EARLIER REVISION DATES