Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		1	25

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3	UTILITY PLAN
4	CONSTRUCTION AREA SIGNS
5	SUMMARY OF QUANTITIES
6-12	REVISED STANDARD PLANS
	STRUCTURE PLANS
13-25	OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR BUILDING CONSTRUCTION

IN TUOLUMNE COUNTY
IN SONORA
AT THE OLD SONORA MAINTENANCE STATION
AT 785 MONO WAY

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP

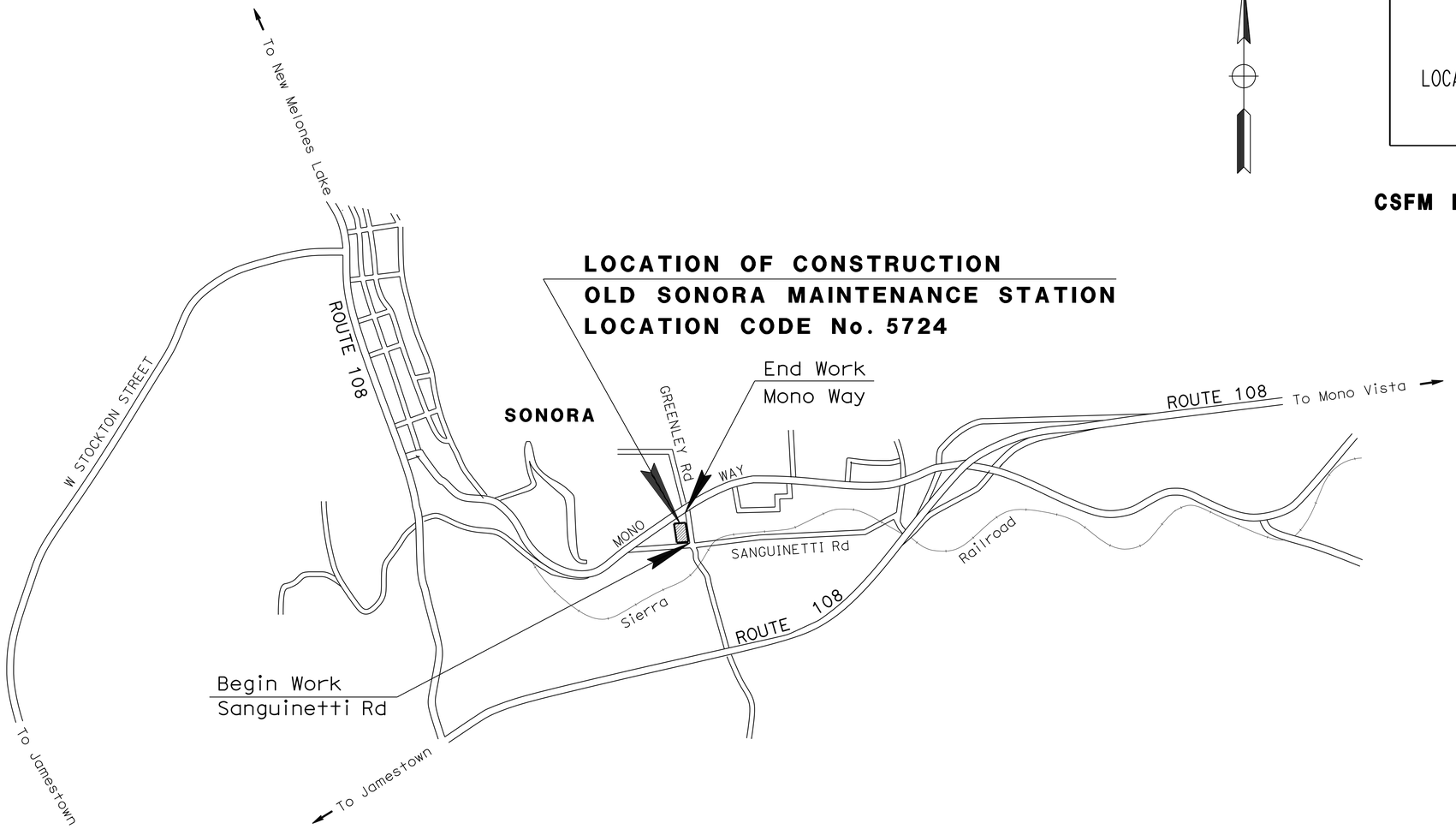
CSFM FILE Number: 01-55-11-0011

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hurwitz
Fire and Life Safety South

Approval date: 07-24-14

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.



LOCATION OF CONSTRUCTION
OLD SONORA MAINTENANCE STATION
LOCATION CODE No. 5724

NO SCALE

Ranjeev Kumar Ghai 01-26-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
RANJEEV KUMAR GHAI
No. 61338
Exp. 06/30/15
CIVIL
STATE OF CALIFORNIA

February 2, 2015
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.

PROJECT MANAGER: JOY PINNE
DESIGN MANAGER: SHAHIN MANSOUR

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

CONTRACT No.	10-0P6704
PROJECT ID	1000000191

LAST REVISION 02-02-15 | DATE PLOTTED => 14-APR-2015 | TIME PLOTTED => 07:15

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		2	25

Ranjeev Kumar Ghai 01-26-15
REGISTERED CIVIL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

RANJEEV KUMAR GHAI No. 61338 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY.
3. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
4. SEE STRUCTURES PLANS FOR TRENCHING & PLUMBING DETAILS.
5. THE SITE IS OLD SONORA MAINTENANCE STATION LOCATED AT 785 MONO WAY, SONORA CA 95370.
6. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

ABBREVIATIONS:

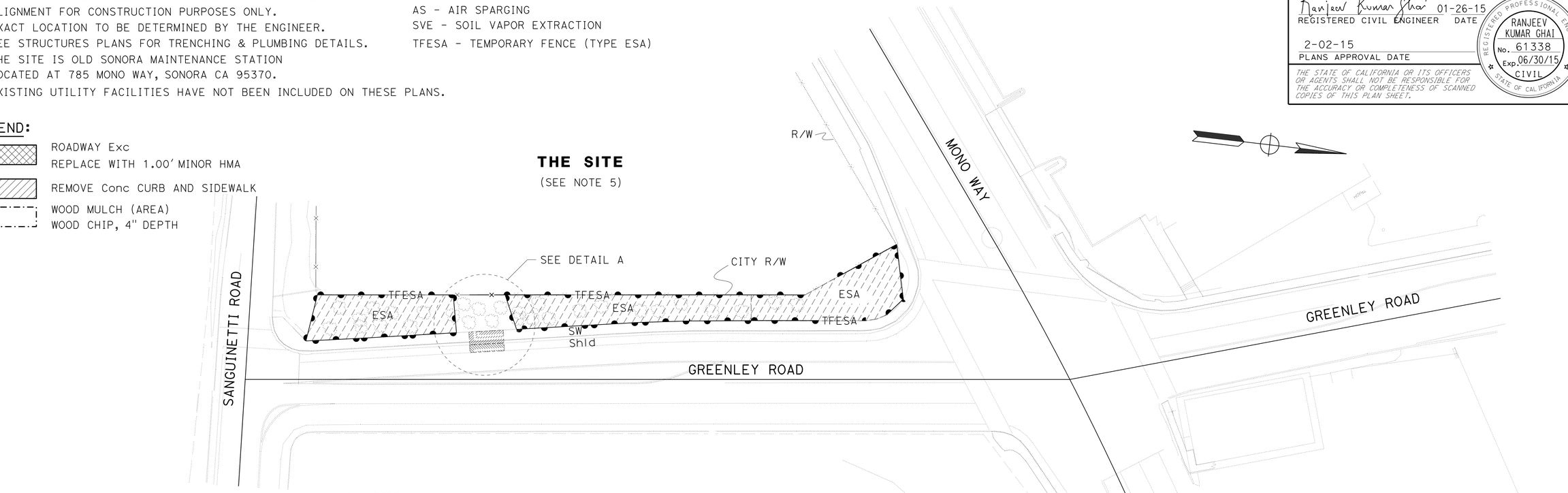
AS - AIR SPARGING
SVE - SOIL VAPOR EXTRACTION
TFESA - TEMPORARY FENCE (TYPE ESA)

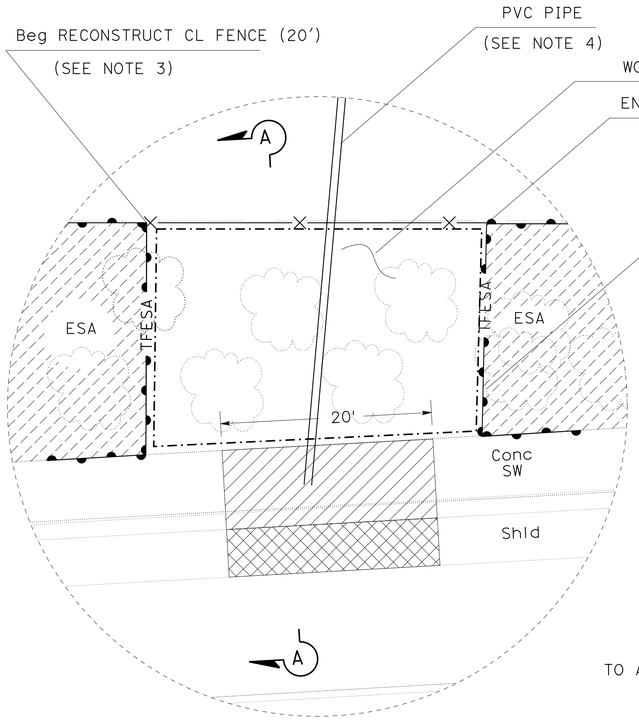
LEGEND:

ROADWAY Exc
REPLACE WITH 1.00' MINOR HMA

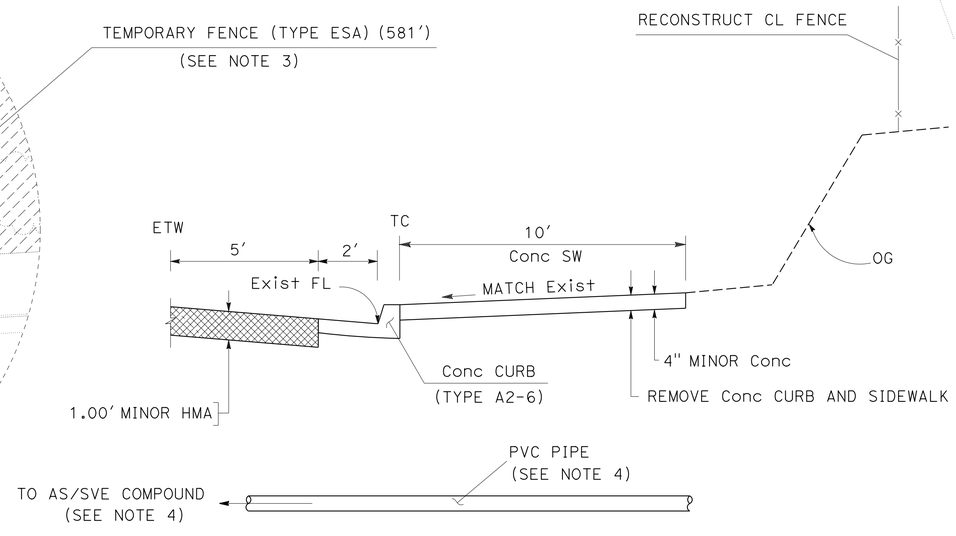
REMOVE Conc CURB AND SIDEWALK

WOOD MULCH (AREA)
WOOD CHIP, 4" DEPTH





DETAIL A



SECTION A-A

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	DATE REVISED
CLEMENTE EUSTAQUIO	
RANJEEV KUMAR GHAI	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
SHAHIN MANSOUR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

LAST REVISION 01-30-15
DATE PLOTTED => 14-APR-2015
TIME PLOTTED => 07:15

BORDER LAST REVISED 7/2/2010
USERNAME => s118789
DGN FILE => 1000000191ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1436
PROJECT NUMBER & PHASE 10000001911

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		3	25

Ranjeev Kumar Ghai 01-26-15
REGISTERED CIVIL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

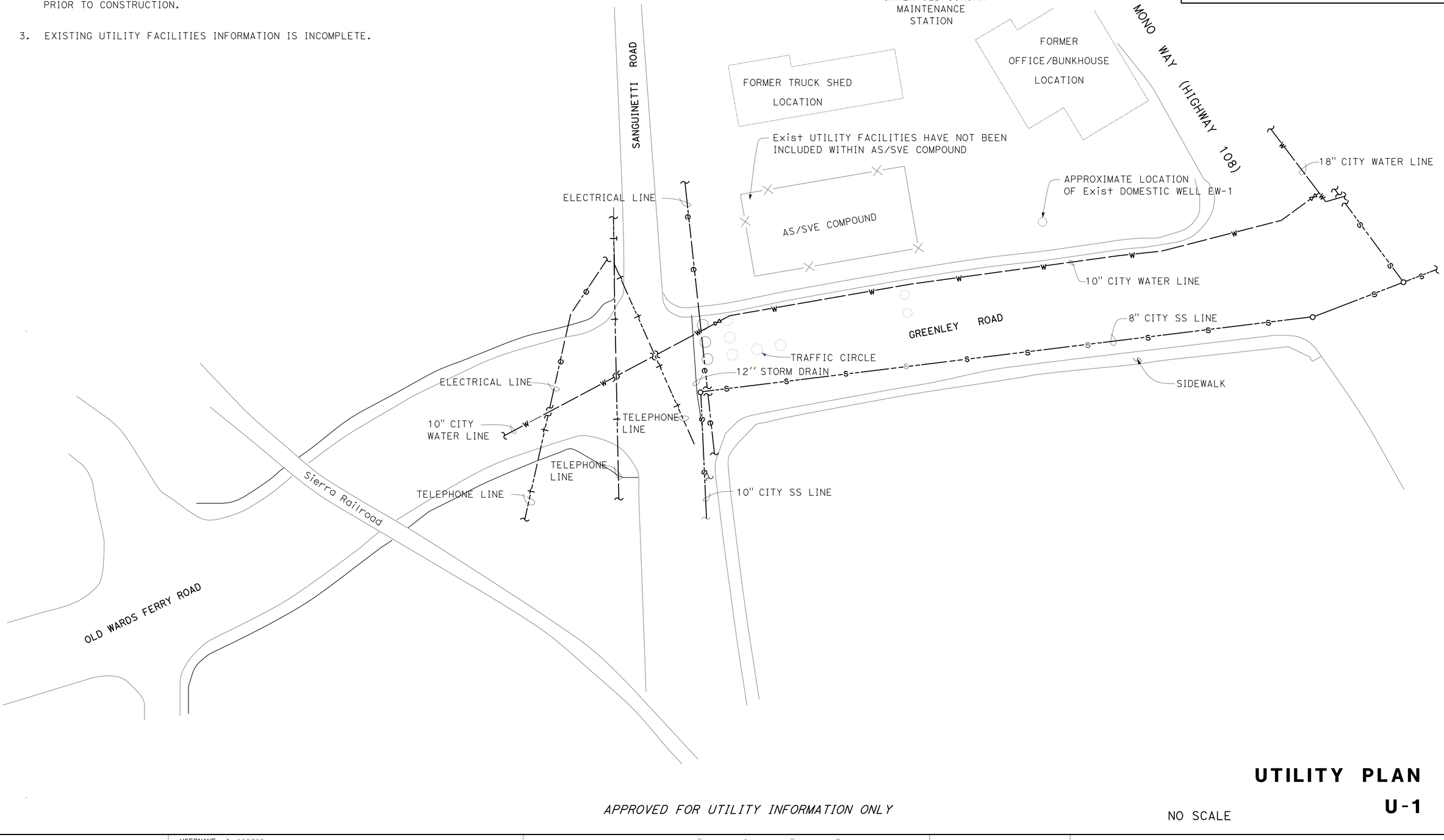
RANJEEV KUMAR GHAI No. 61338 Exp. 06/30/15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATION OF UTILITY FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING UTILITY FACILITIES INFORMATION IS INCOMPLETE.

ABBREVIATION:

SS - SANITARY SEWER



APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

U-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-DESIGN
FUNCTIONAL SUPERVISOR: SHAHIN MANSOUR
CALCULATED-DESIGNED BY: RANJEEV KUMAR GHAI
CHECKED BY: CLEMENTE EUSTAQUIO
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 14-APR-2015
01-30-15 TIME PLOTTED => 07:15

BORDER LAST REVISED 7/2/2010
USERNAME => s118789
DGN FILE => 1000000191ka001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1436
PROJECT NUMBER & PHASE 10000001911

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		4	25

1-21-15
REGISTERED CIVIL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp. 12/31/15
CIVIL
STATE OF CALIFORNIA

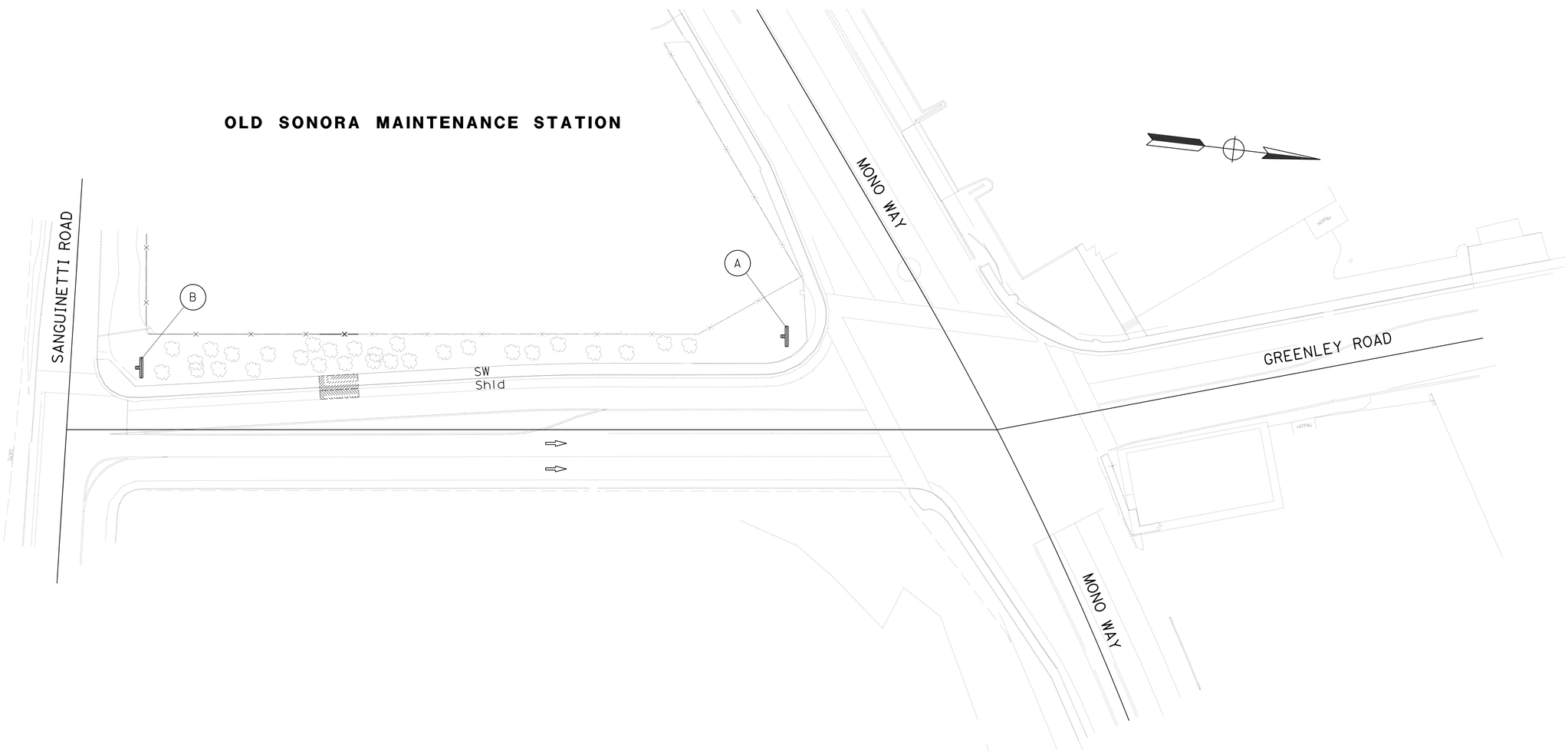
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	1
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	1

NOTE:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

OLD SONORA MAINTENANCE STATION



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY	DATE REVISED
RT	02-02-15
RT	12-02-14
RT	11-21-14

CALCULATED-DESIGNED BY: RAJINI TEKALKOTE
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-TRAFFIC DESIGN

LAST REVISION 02-02-15
DATE PLOTTED => 14-APR-2015
TIME PLOTTED => 07:29

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		5	25

Ranjeev Kumar Ghai 01-26-15
REGISTERED CIVIL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RANJEEV KUMAR GHAI
No. 61338
Exp 06/30/15
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ABBREVIATIONS:

AS - AIR SPARGING
SVE - SOIL VAPOR EXTRACTION

FENCE AND GATE QUANTITIES

LOCATION	RECONSTRUCT CHAIN LINK FENCE	CHAIN LINK FENCE (TYPE CL-6)	4' CHAIN LINK GATE (TYPE CL-6)	5' CHAIN LINK GATE (TYPE CL-6)
	LF	LF	EA	EA
OLD SONORA MAINTENANCE STATION	20			
AS/SVE COMPOUND		76	1	2
TOTAL	20	76	1	2

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

LOCATION	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY FIBER ROLL	TEMPORARY GRAVEL BAG BERM	TEMPORARY FENCE (TYPE ESA)
	EA	LF	LF	LF
GREENLEY ROAD	1		60	581
OLD SONORA MAINTENANCE STATION		80		
TOTAL	1	80	60	581

ROADWAY QUANTITIES

LOCATION	DESCRIPTION	REMOVE CONCRETE CURB AND SIDEWALK	MINOR CONCRETE (Misc CONSTRUCTION)	MINOR HMA
		SQYD	CY	TON
GREENLEY ROAD	CURB AND SIDEWALK	28	4	
	SHOULDER			8
TOTAL		28	4	8

EARTHWORK QUANTITY

LOCATION	ROADWAY EXCAVATION
	CY
OLD SONORA MAINTENANCE STATION	16
GREENLEY ROAD SHOULDER	4
TOTAL	20

WOOD MULCH

LOCATION	CY
GREENLEY ROAD	6.7

SUMMARY OF QUANTITIES

Q-1

REVISED BY	DATE REVISED
XXXXXXX	XXXXXXX

CALCULATED-DESIGNED BY: CLEMENTE EUSTAQUIO
CHECKED BY: RANJEEV GHAI
FUNCTIONAL SUPERVISOR: SHAHIN MANSOUR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

LAST REVISION DATE PLOTTED => 14-APR-2015
01-30-15 TIME PLOTTED => 07:15

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		6	26

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima — No. C49814 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-02-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		7	25

Glenn DeCou
REGISTERED CIVIL ENGINEER

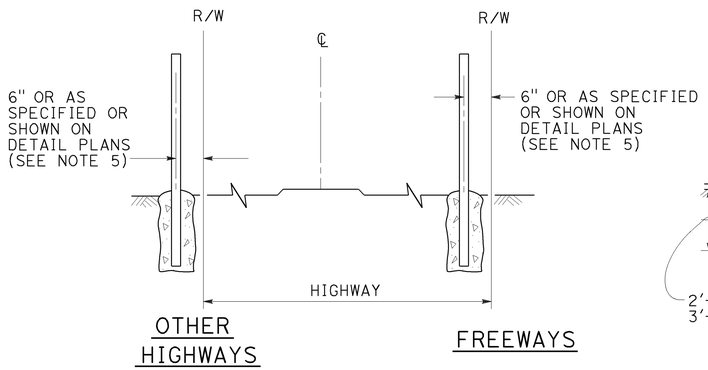
July 18, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Glenn DeCou — No. C34547 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

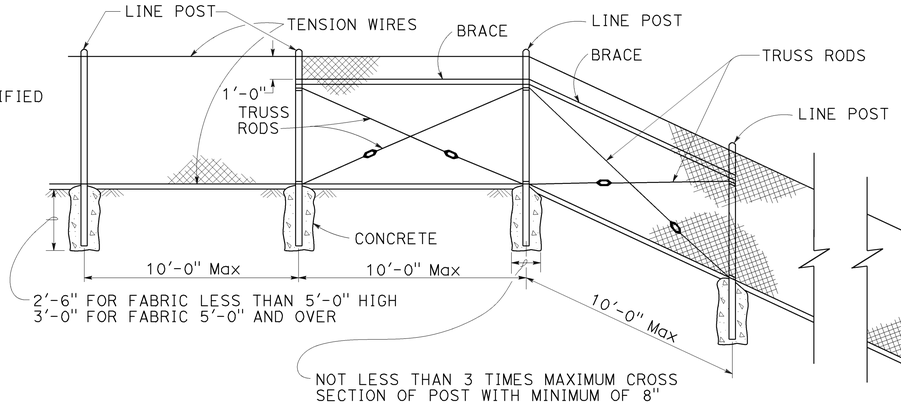
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-02-15

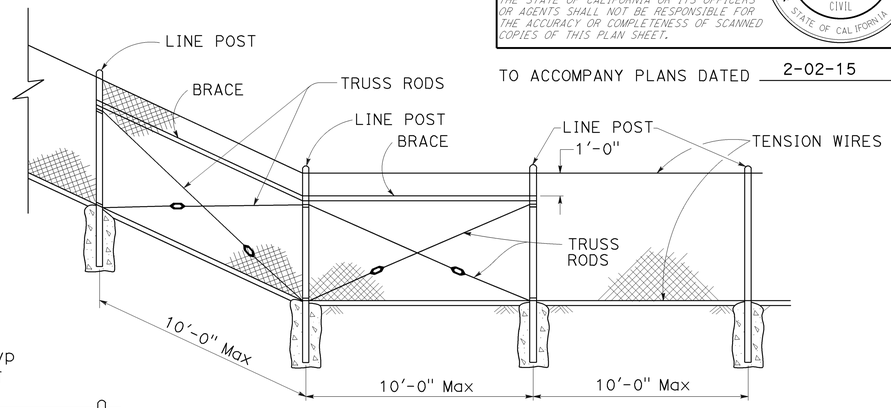
2010 REVISED STANDARD PLAN RSP A85

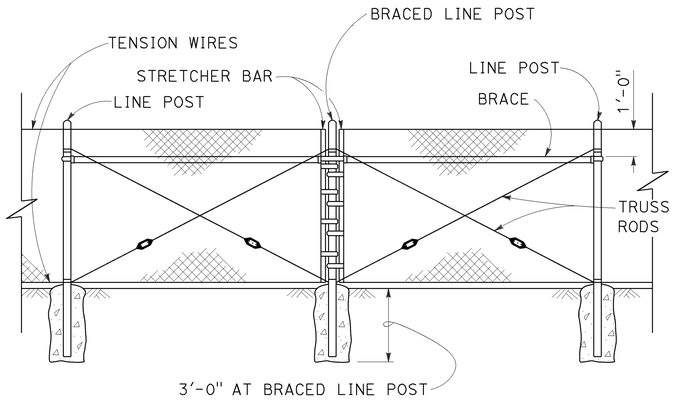


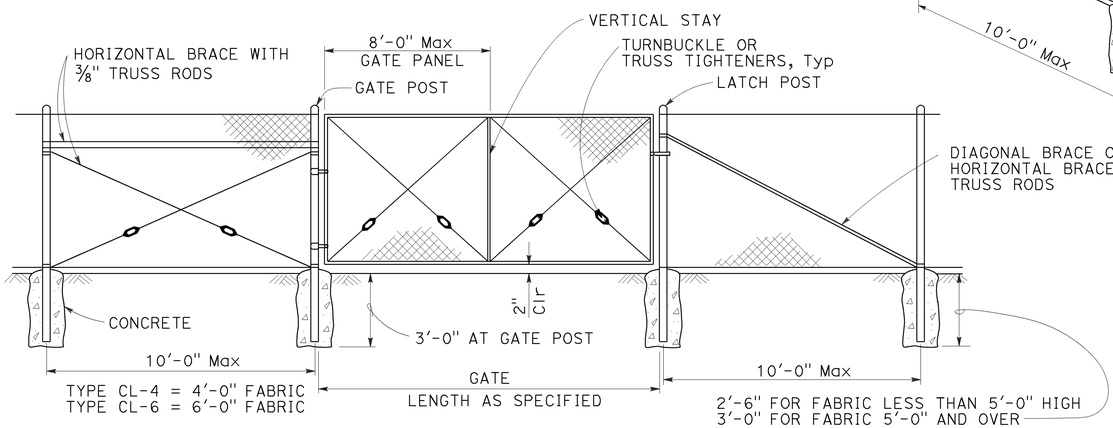
FENCE LOCATION



CHAIN LINK FENCE ON SHARP BREAK IN GRADE

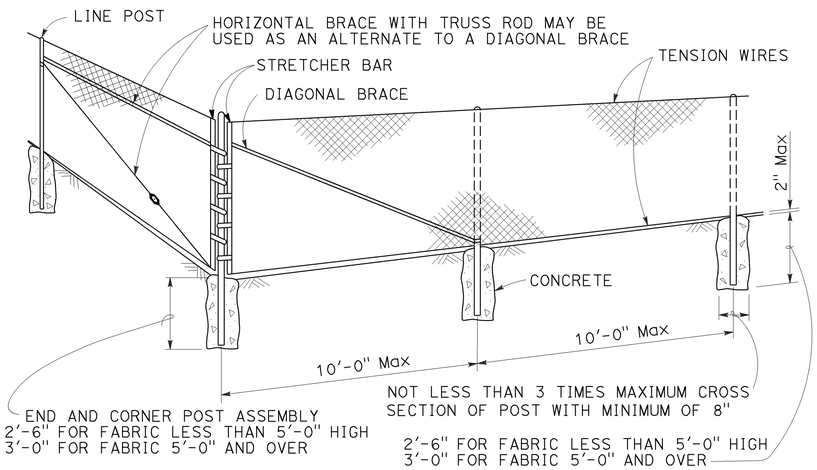






BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'



CORNER POST

CHAIN LINK GATE INSTALLATION

NOTES:

1. The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
2. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
3. Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
4. Options exercised shall be uniform on any one project.
5. Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
6. See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

GATE POST

FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
OVER 6'-0" TO 8'-0" Max	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

TYPICAL MEMBER DIMENSIONS (See Notes)

FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED SECTION	ROLL FORMED WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED SECTION	ROLL FORMED WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE

NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85
DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85

7-1-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		8	25

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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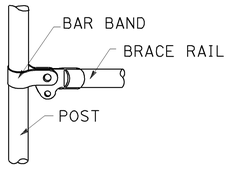
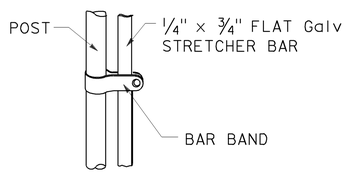
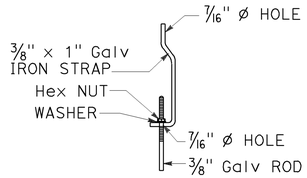
TO ACCOMPANY PLANS DATED 2-02-15



BRACE RAIL



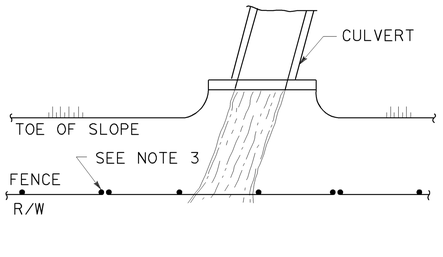
STRETCHER BAR



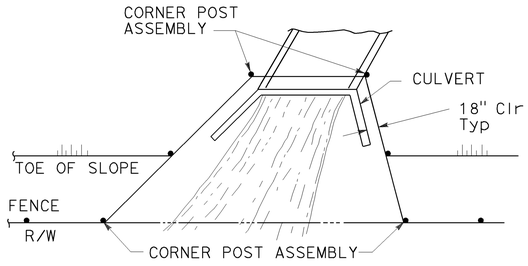
TRUSS TIGHTENER

NOTES:

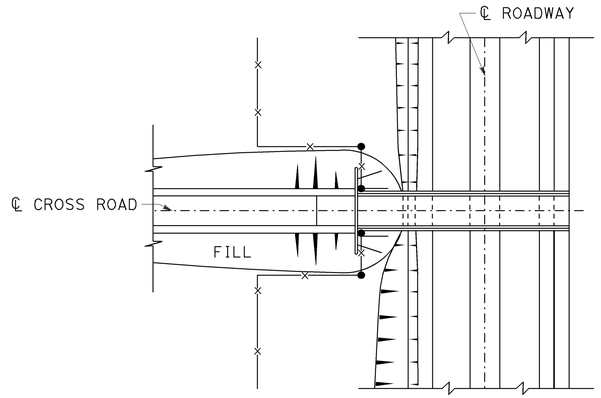
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



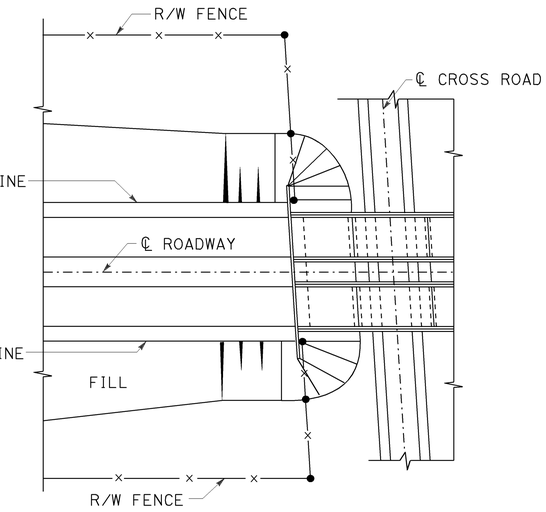
PLAN



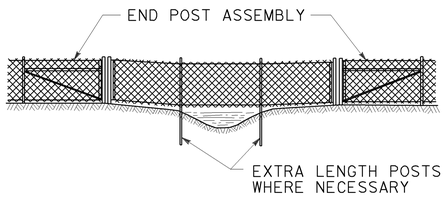
PLAN



PLAN OF ROADWAY - OVERCROSSING

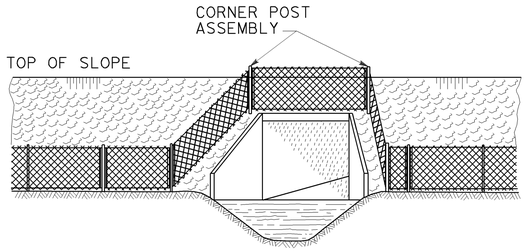


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

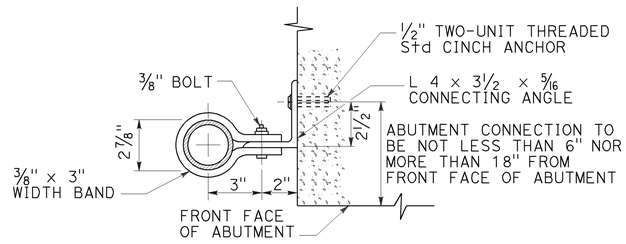
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

7-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		9	25

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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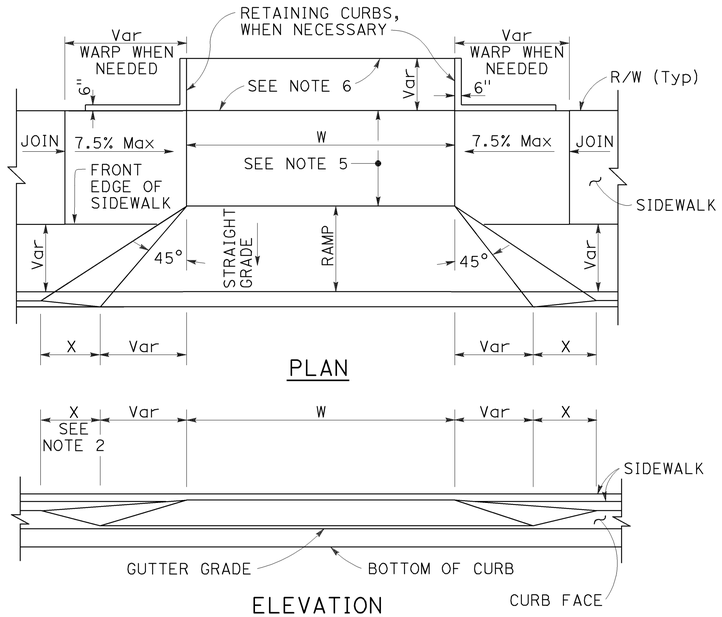
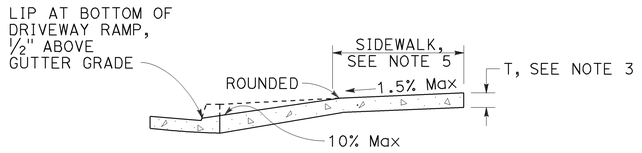
TO ACCOMPANY PLANS DATED 2-02-15



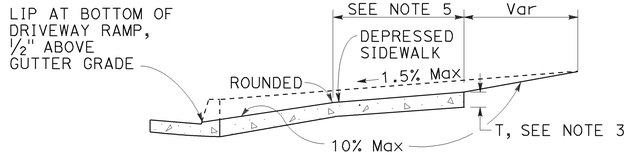
PLAN

ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

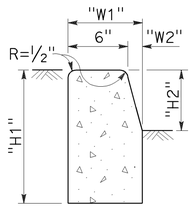
TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

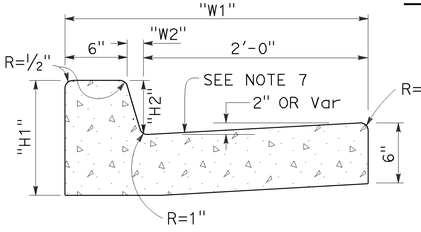
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

DRIVEWAYS



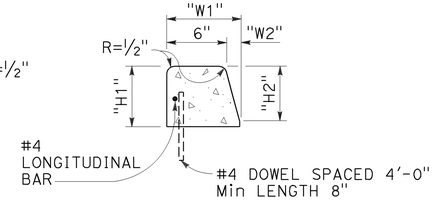
TYPE A1 CURBS

See Table A



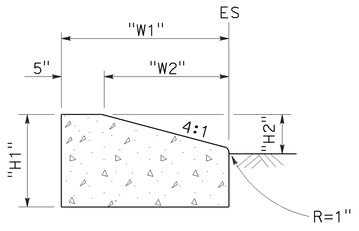
TYPE A2 CURBS

See Table A



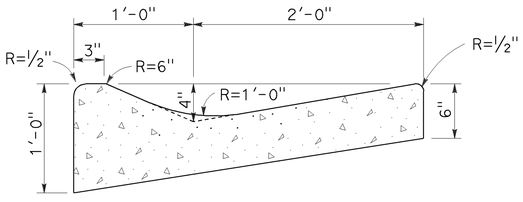
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

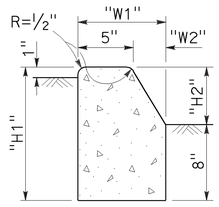


TYPE D CURBS

See Table A

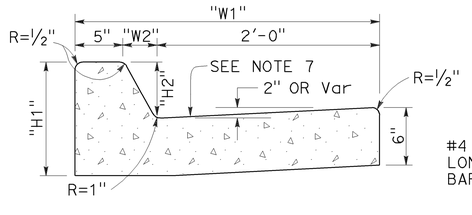


TYPE E CURB



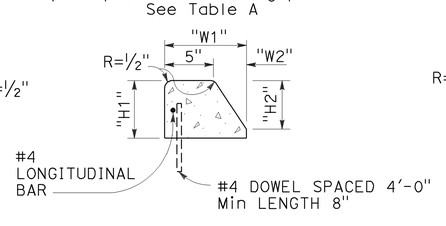
TYPE B1 CURBS

See Table A



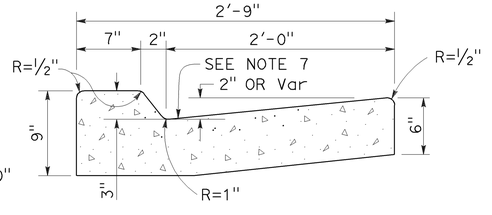
TYPE B2 CURBS

See Table A

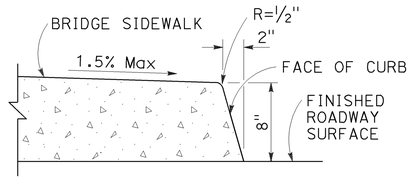


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		10	25

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 2-02-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		11	25

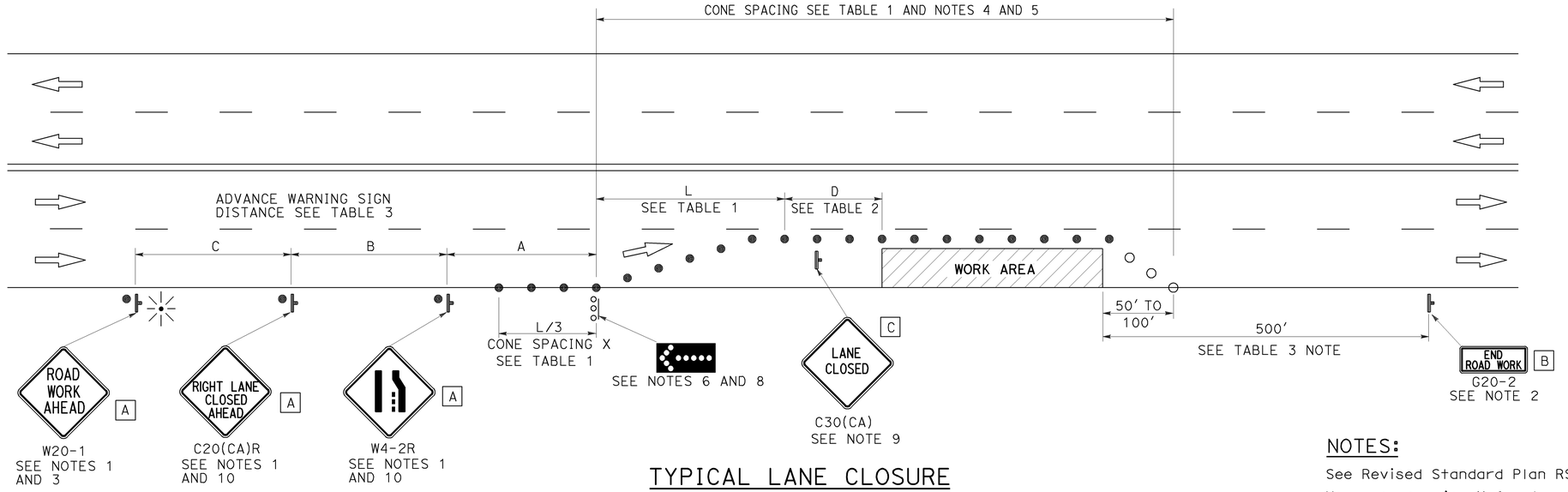
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-02-15



TYPICAL LANE CLOSURE

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

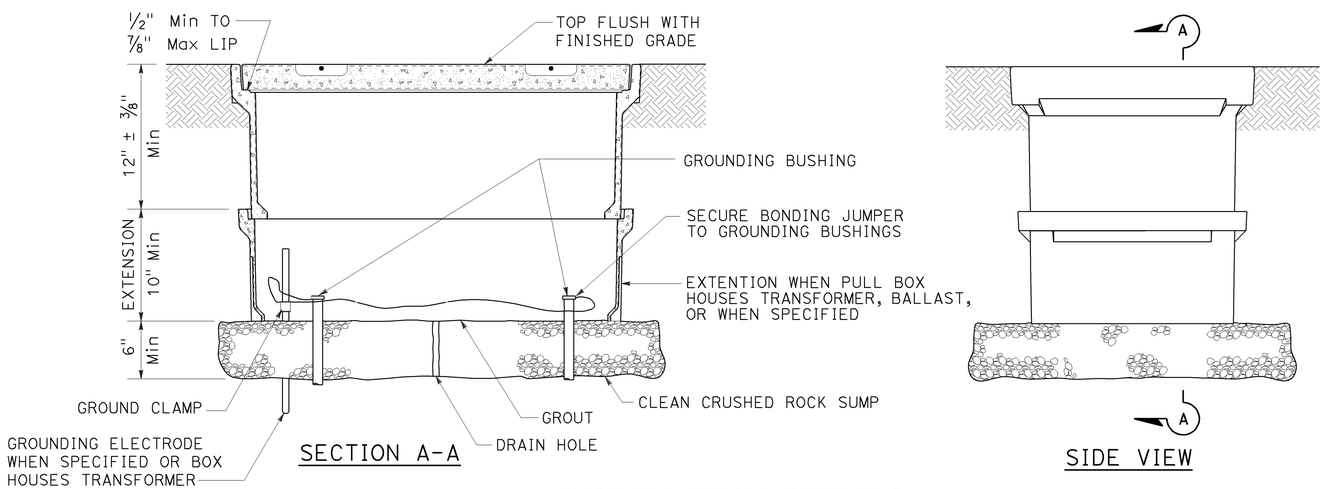
NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

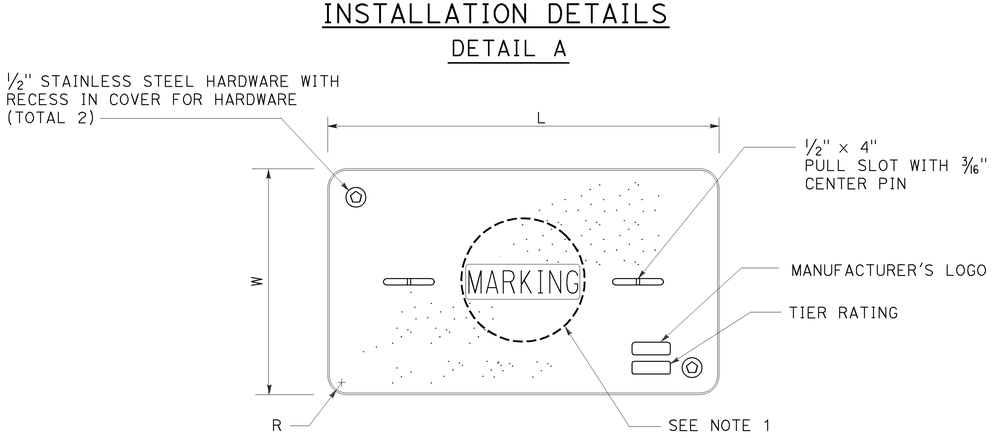


SECTION A-A

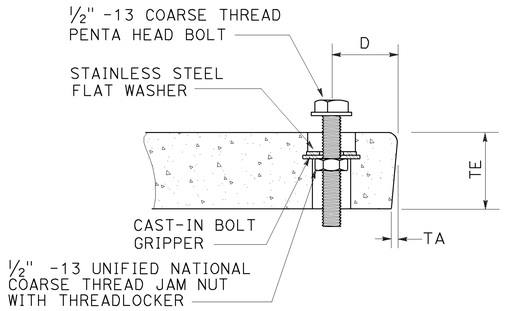
SIDE VIEW

INSTALLATION DETAILS

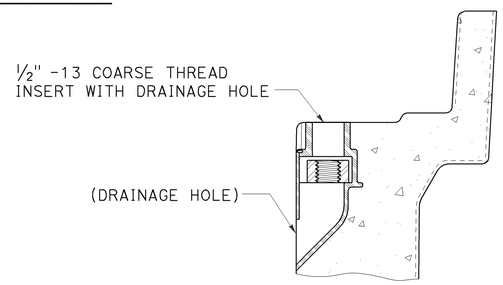
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3½	12"	N/A	40 lb	1′ - 3⅜"	10⅛"	1⅜"	2"	⅛"	1¾"	30 lb
No. 5	12"	10"	55 lb	1′ - 11¼"	1′ - 1¾"	1⅜"	2"	⅛"	1¾"	60 lb
No. 6	12"	10"	70 lb	2′ - 6½"	1′ - 5½"	1⅜"	2"	⅛"	2"	85 lb

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Tuo	5724		12	25

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

TO ACCOMPANY PLANS DATED 2-02-15

NOTES:

1. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
   A) No. 3½ pull box.
      1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   B) No. 5, 6, 9 or 9A pull box.
      1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
      3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
      4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
      5) "RAMP METER" - Ramp meter circuits.
      6) "COUNT STATION" - Count or speed monitor circuits.
      7) "COMMUNICATIONS" - Communication circuits.
      8) "TOS COMMUNICATIONS" - TOS communication line.
      9) "TOS POWER" - TOS power.
      10) "TDC POWER" - Telephone demarcation cabinet power.
      11) "CCTV" - Closed circuit television circuits.
      12) "TMS" - Traffic monitoring station circuits.
      13) "CMS" - Changeable message sign circuits.
      14) "HAR" - Highway advisory radio circuits.
      15) "BOOSTER PUMP" - Booster pump circuit.
2. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
3. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛". Top outside radius of covers and pull boxes shall have a ⅛" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
5. All dimensions for the cover for non-traffic pull box are nominal values.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)

NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

7-15-13

INDEX OF SHEETS

SHEET NO.	TITLE
GP	(E) GENERAL PLAN
	MECHANICAL
M-1	MODIFIED SITE PLAN
M-2	AS/SVE COMPOUND DETAILS
M-3	AS/SVE WELL DETAILS
M-4	EXISTING WELL MODIFICATION DETAILS
M-5	MANIFOLD DETAILS
M-6	TRENCH AND PIPING DETAILS
	ELECTRICAL
EE0-0	LEGEND
EE0-1	NOTES AND ABBREVIATIONS
EE1-0	SITE PLAN
EE1-1	SOIL VAPOR EXTRACTION LAYOUT
EE1-2	POLE-MOUNTED SERVICE CABINET DETAILS
EE1-3	SINGLE LINE DISTRIBUTION DIAGRAM

APPLICABLE CODES
2013 CALIFORNIA BUILDING CODE (CBC)
2013 CALIFORNIA ELECTRICAL CODE (CEC)
2013 CALIFORNIA FIRE CODE (CFC)
2013 CALIFORNIA MECHANICAL CODE (CMC)
2010 AMERICANS WITH DISABILITIES ACT STANDARDS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Reviewed by: [signature] J. Hurwicz for
Fire and Life Safety South
Approval date: 07-24-14
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.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		13	25

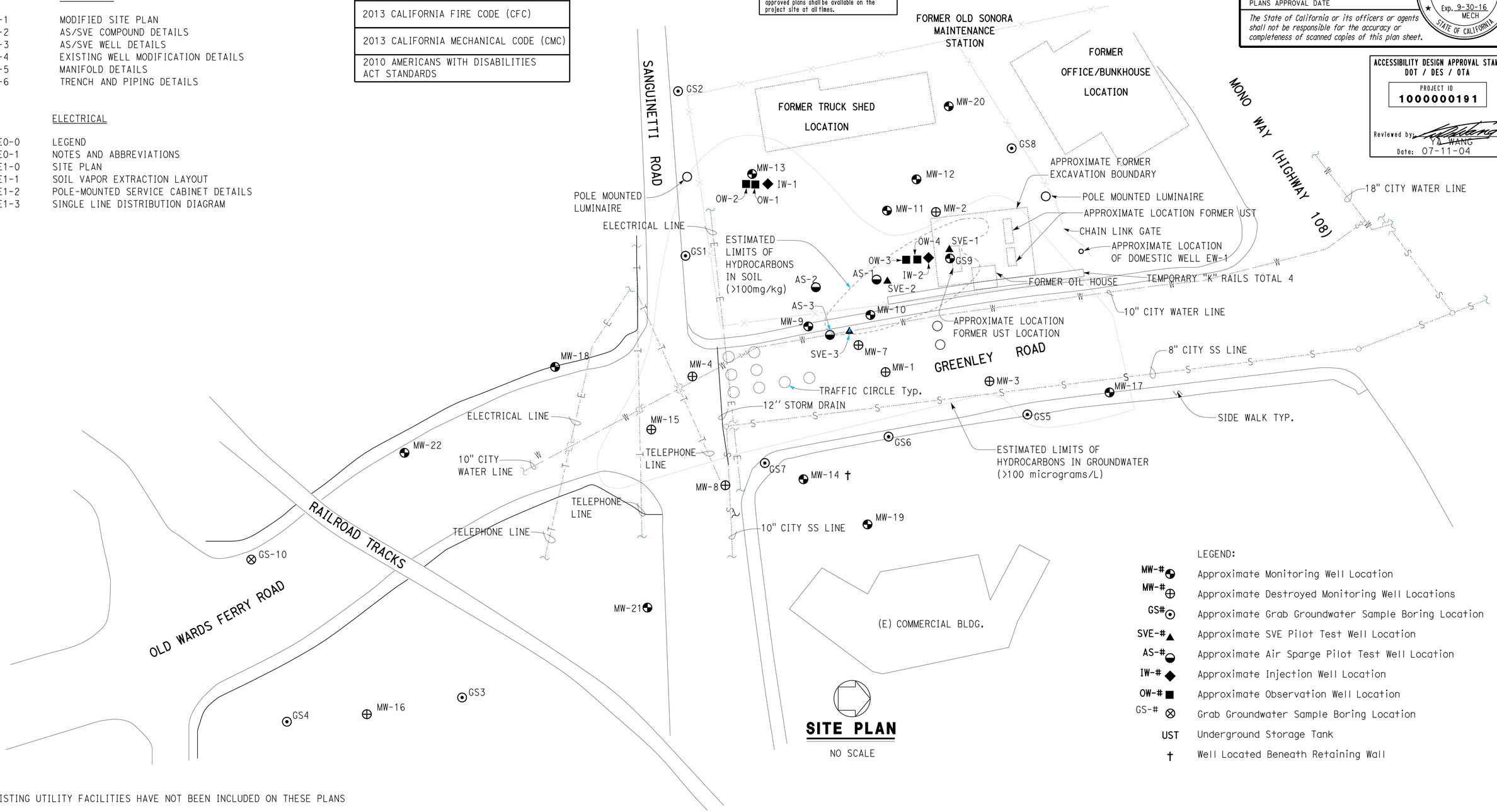
[signature] 9-15-14
REGISTERED MECHANICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER
MARK HEDGLIN
No. M32912
Exp. 9-30-16
MECH
STATE OF CALIFORNIA

2-02-15
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.

ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA
PROJECT ID
1000000191
Reviewed by: [signature] YA WANG
Date: 07-11-04



SITE PLAN
NO SCALE

LEGEND:

MW-# ◔	Approximate Monitoring Well Location
MW-# ⊕	Approximate Destroyed Monitoring Well Locations
GS# ⊙	Approximate Grab Groundwater Sample Boring Location
SVE-# ▲	Approximate SVE Pilot Test Well Location
AS-# ◒	Approximate Air Sparge Pilot Test Well Location
IW-# ◆	Approximate Injection Well Location
OW-# ■	Approximate Observation Well Location
GS-# ⊗	Grab Groundwater Sample Boring Location
UST	Underground Storage Tank
†	Well Located Beneath Retaining Wall

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

[signature] [signature]
TAEMWW Imperial - CCSC Rev. 01/13

	BY	CHECKED
DESIGN	Mark Hedglin	THOMAS DIETSCH
DETAILS	Rudy Sarte	THOMAS DIETSCH
QUANTITIES	Mark Hedglin	THOMAS DIETSCH

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF **CALIFORNIA** DEPARTMENT OF TRANSPORTATION

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

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

BRIDGE No. 53M5724
POST MILE

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION
EXISTING GENERAL PLAN

SHEET **GP**

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)							SHEET	OF
4/28/14	5/22/14	6/12/14	9/10/14	12/4/14				

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14-APR-2015 07:06

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Reviewed by: J. Hurwitz, Deputy
Fire and Life Safety South
Approval date: 07-24-14
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		14	25

REGISTERED MECHANICAL ENGINEER — DATE 9-15-14

PLANS APPROVAL DATE 2-02-15

REGISTERED PROFESSIONAL ENGINEER
MARK HEDGLIN
No. M32912
Exp. 9-30-16
MECH
STATE OF CALIFORNIA

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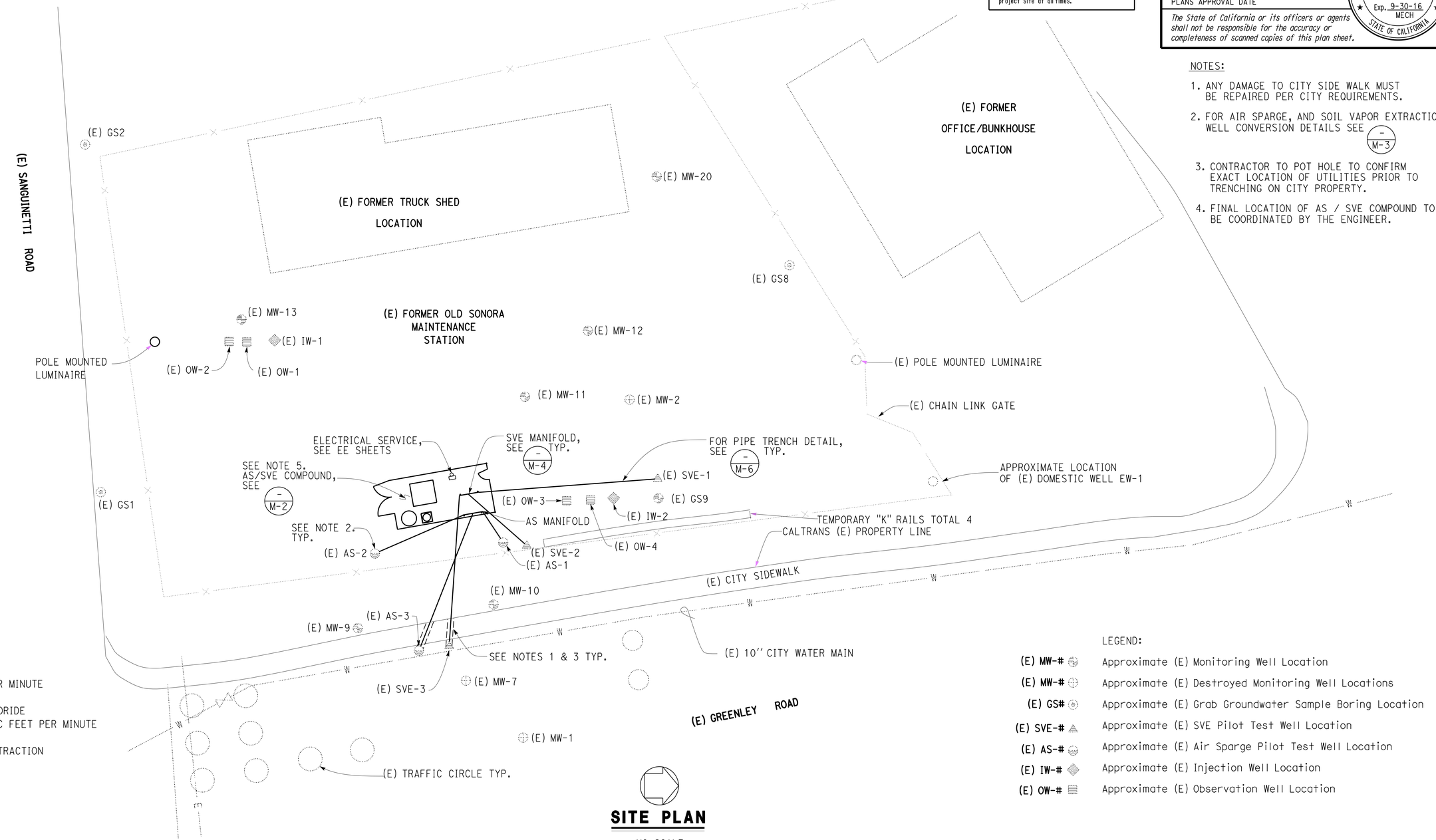
NOTES:

1. ANY DAMAGE TO CITY SIDE WALK MUST BE REPAIRED PER CITY REQUIREMENTS.
2. FOR AIR SPARGE, AND SOIL VAPOR EXTRACTION WELL CONVERSION DETAILS SEE - M-3
3. CONTRACTOR TO POT HOLE TO CONFIRM EXACT LOCATION OF UTILITIES PRIOR TO TRENCHING ON CITY PROPERTY.
4. FINAL LOCATION OF AS / SVE COMPOUND TO BE COORDINATED BY THE ENGINEER.



SITE PLAN

NO SCALE

ABBREVIATIONS:

AS	AIR SPARGE
CFM	CUBIC FEET PER MINUTE
(E)	EXISTING
PVC	POLYVINYL CHLORIDE
SCFM	STANDARD CUBIC FEET PER MINUTE
Sch	SCHEDULE
SVE	SOIL VAPOR EXTRACTION
TYP.	TYPICAL
W.C.	WATER COLUMN

LEGEND:

(E) MW-#	Approximate (E) Monitoring Well Location
(E) MW-#	Approximate (E) Destroyed Monitoring Well Locations
(E) GS#	Approximate (E) Grab Groundwater Sample Boring Location
(E) SVE-#	Approximate (E) SVE Pilot Test Well Location
(E) AS-#	Approximate (E) Air Sparge Pilot Test Well Location
(E) IW-#	Approximate (E) Injection Well Location
(E) OW-#	Approximate (E) Observation Well Location

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

	BY	CHECKED
DESIGN	Mark Hedglin	THOMAS DIETSCH
DETAILS	Rudy Sarte	THOMAS DIETSCH
QUANTITIES	Mark Hedglin	THOMAS DIETSCH

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE

OLD SONORA MAINTENANCE STATION
SOIL REMEDIATION

MODIFIED SITE PLAN

SHEET M-1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 4/28/14 5/23/14 6/13/14 9/10/14 12/4/14

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NOTES:

1. Orient all gages and meters to be visible from the space between the AS and SVE manifolds.
2. RUN AN EMPTY 1'' SCH 40 PVC ELECTRICAL CONDUIT TO EACH SVE WELL.

EQUIPMENT SCHEDULE:

SVE SYSTEM	Electric Catalytic Oxidizer 250 cfm, 7.5 HP Blower 24 kW heater, 230v 60Hz, 3 phase. Knockout Tank Pump, 0.5 HP 120 60Hz 1 phase.
AS SYSTEM	7.5 HP Rotary Claw Compressor, 230v 60 Hz, 22 amp, 3 phase

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: Fire and Life Safety South

Approval date: 07-24-14

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		15	25

REGISTERED MECHANICAL ENGINEER — 9-15-14 DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK HEDGLIN No. M32912 Exp. 9-30-16 MECH — STATE OF CALIFORNIA

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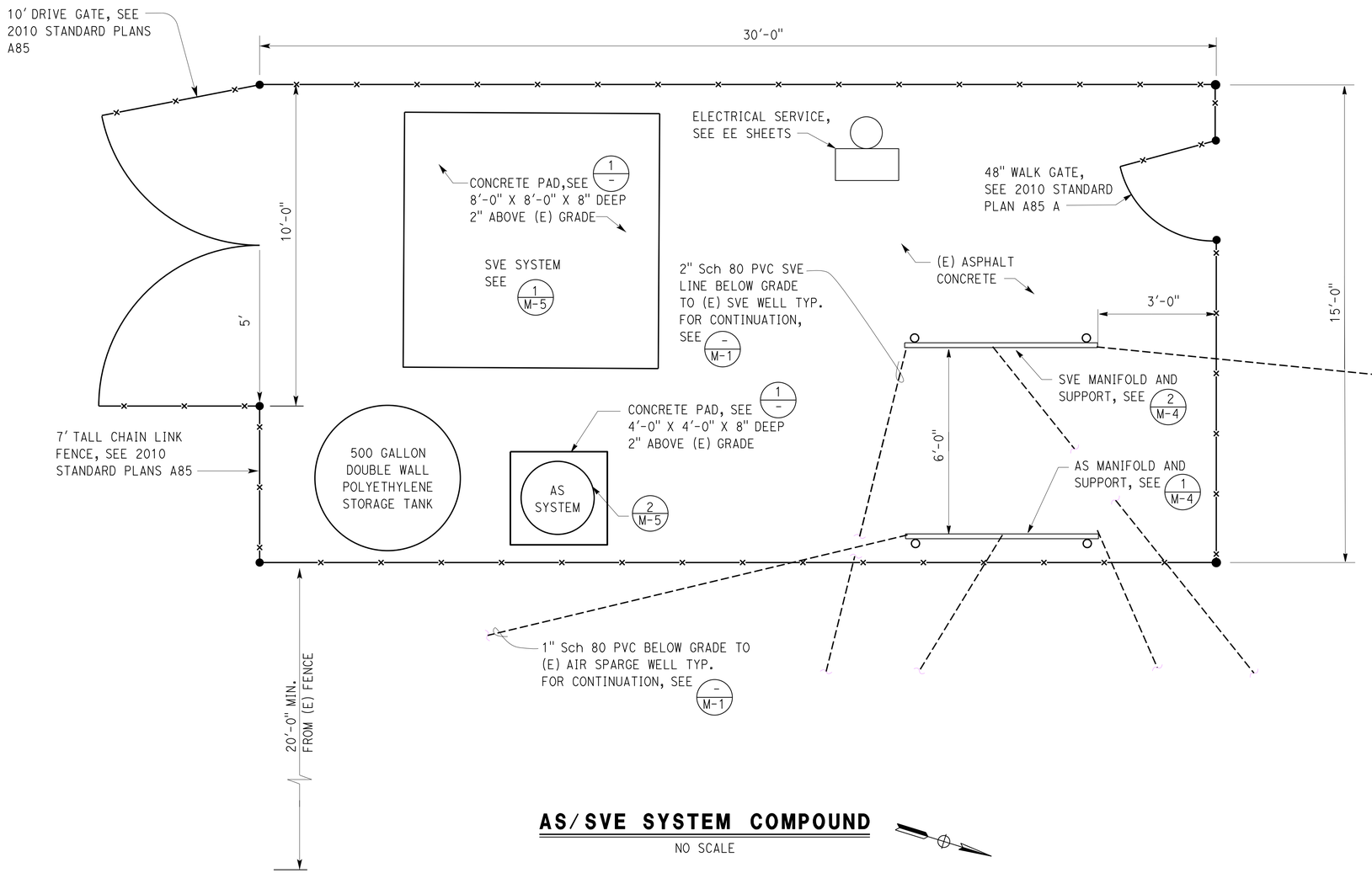


AS/SVE SYSTEM COMPOUND

NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

A GENERAL CONCRETE NOTES

1. The following minimum concrete cover shall be provided for reinforcement.

Minimum Cover

a. Concrete cast against and permanently exposed to earth _____ 3''

b. Concrete exposed to earth or weather but cast in forms :

*6 thru *18 bars _____ 2''

*5 bar and smaller, W31 or D31 Wire, and smaller_____ 1½''

c. Concrete not exposed to weather or in contact with ground :
Slabs, Walls and Joists :

*14 and *18 Bar_____ 1½''

*11 Bar and smaller_____ ¾''

Beams and Columns :
Primary Reinforcement, Ties, Stirrups and Spirals_____ 1½''

2. Splices in continuous reinforcement as in Walls, Wall Footings, etc. *8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0'' apart.

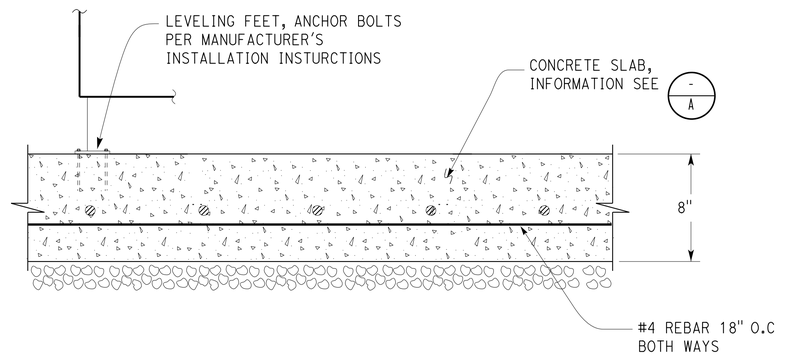
Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.

3. Contraction Joints and Control Joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0''.

4.

Slab Thickness (t)	Reinforcement
8''	*4 @ 18 Each way, place in center of Slab

5. Place 4'' of free draining granular material under slabs.



1 EQUIPMENT MOUNTING DETAIL

NO SCALE

DESIGN	BY Mark Hedglin	CHECKED THOMAS DIETSCH	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 53M5724
DETAILS	BY Rudy Sarte	CHECKED THOMAS DIETSCH			POST MILE
QUANTITIES	BY Mark Hedglin	CHECKED THOMAS DIETSCH			

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

AS / SVE COMPOUND DETAILS

SHEET M-2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) — SHEET — OF

4/23/14 5/22/14 6/13/14 9/10/14 12/4/14

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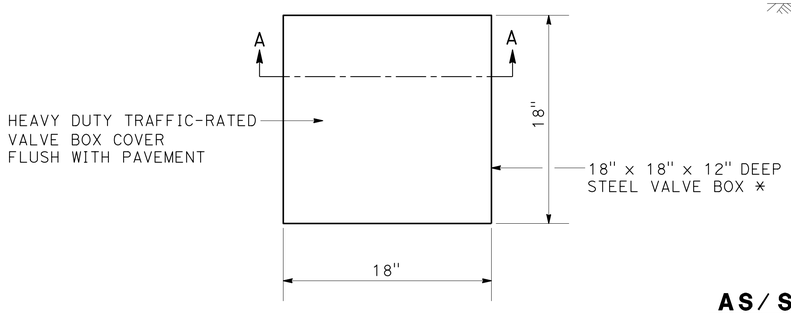
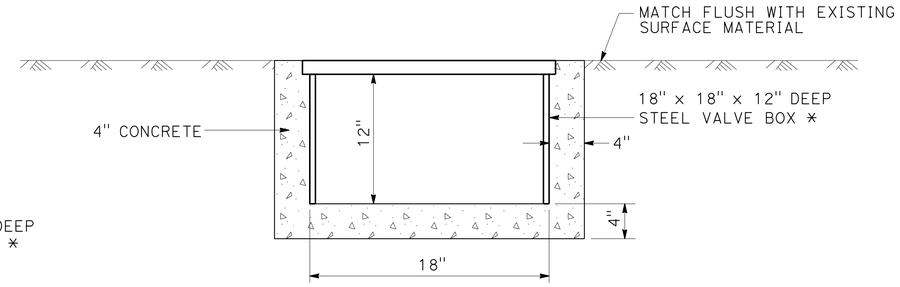
NOTE:

* - OFFSET FROM CENTER TO ACCOMODATE LATERAL PIPE CONNECTIONS

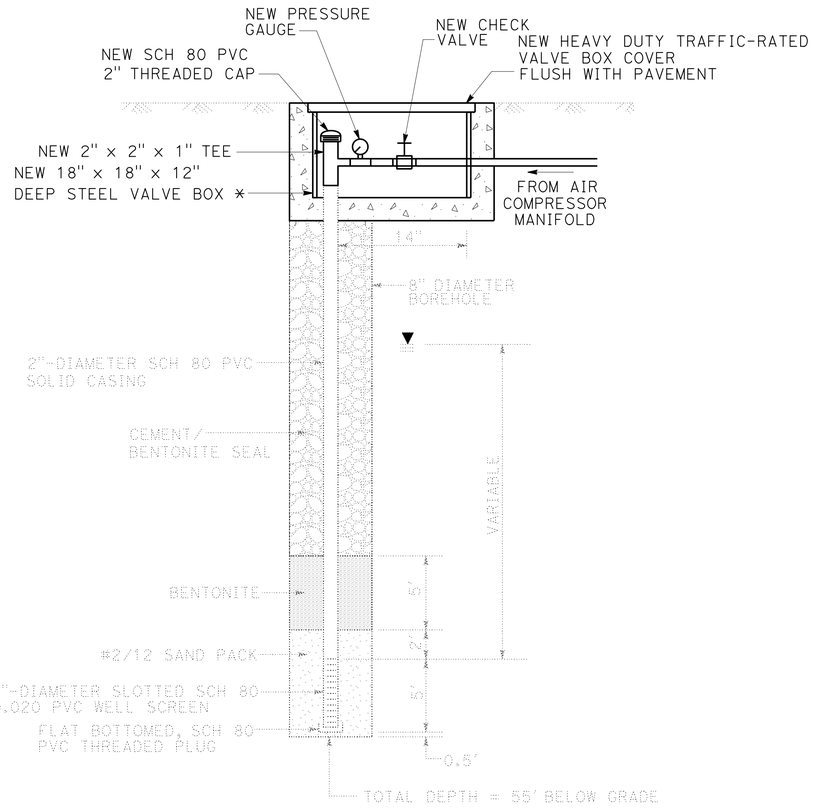


PLAN
NO SCALE



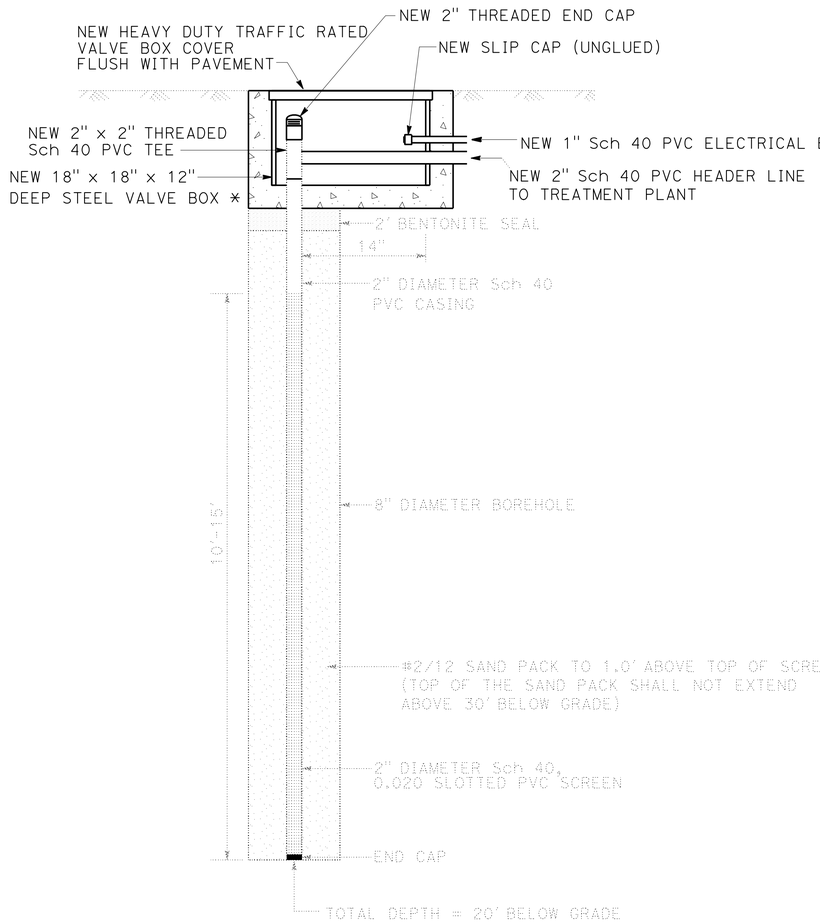
SECTION A-A
NO SCALE

AS/SVE VALVE BOX



TYPICAL (E) AIR SPARGE WELL

NO SCALE



TYPICAL (E) SOIL VAPOR EXTRACTION WELL

NO SCALE

ABBREVIATIONS:

AS - AIR SPARGE
SVE - SOIL VAPOR EXTRACTION
LL - LOW LIQUID LEVEL SWITCH
HL - HIGH LIQUID LEVEL SWITCH
HHL - HIGH-HIGH LIQUID LEVEL SWITCH

LEGEND:

- CONCRETE
- CEMENT/BENTONITE SEAL
- SAND
- BENTONITE

(P) - PRESSURE GAUGE
(SP) - SAMPLE PORT
(TI) - TEMPERATURE INDICATOR
- FLOW CONTROL VALVE
- FLOW METER

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Reviewed by: J. Hennyke for FPB and Life Safety South
Approval date: 07-24-14
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10	Tuo	5724		16	25

REGISTERED MECHANICAL ENGINEER — 9-15-14 DATE

REGISTERED PROFESSIONAL ENGINEER
MARK HEDGLIN
No. M32912
Exp. 9-30-16
MECH
STATE OF CALIFORNIA

2-02-15
PLANS APPROVAL DATE

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DESIGN	BY Mark Hedglin	CHECKED THOMAS DIETSCH	
DETAILS	BY Rudy Sarte	CHECKED THOMAS DIETSCH	
QUANTITIES	BY Mark Hedglin	CHECKED THOMAS DIETSCH	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE

OLD SONORA MAINTENANCE STATION
SOIL REMEDIATION

AS / SVE WELL DETAILS

SHEET M-3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 4/28/14 5/23/14 6/13/14 9/10/14 12/4/14

SHEET OF

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: Mark J. Hurwicz
Fire and Life Safety South

Approval date: 07-24-14

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REGISTERED MECHANICAL ENGINEER — 9-15-14 DATE

REGISTERED PROFESSIONAL ENGINEER
MARK HEDGLIN
No. M32912
Exp. 9-30-16
MECH
STATE OF CALIFORNIA

2-02-15
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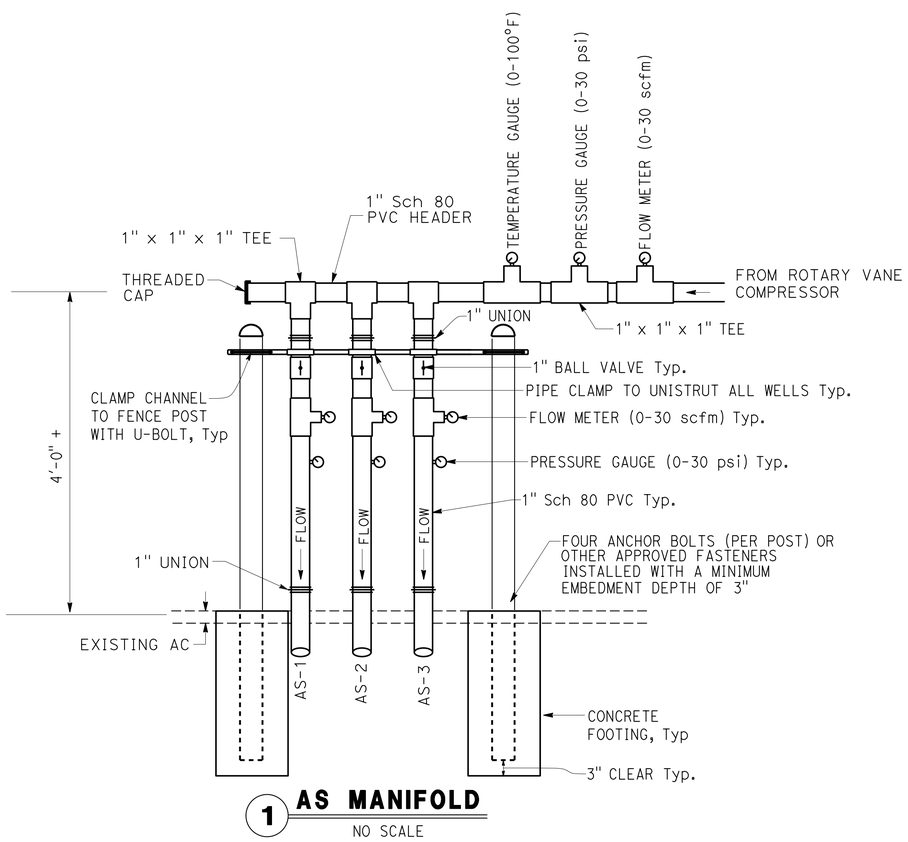
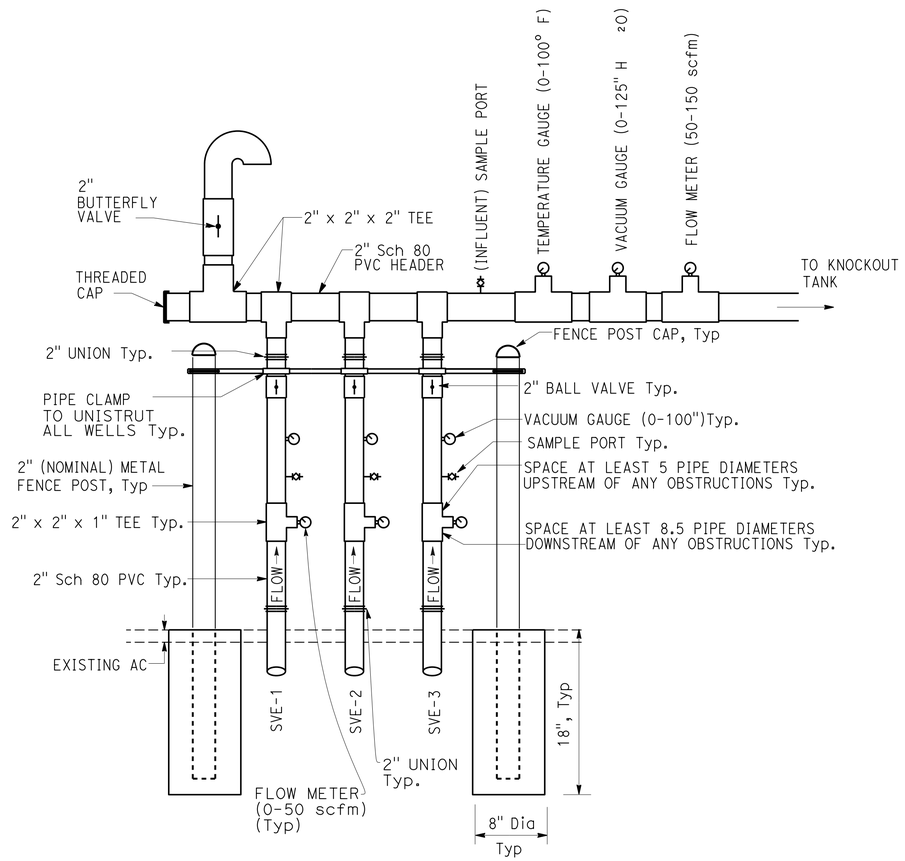
NOTES:

1. Balance SVE well flow rates equally.
2. Set AS well flow rates at 3.5 cfm.
3. Set pressure regulator to 10 psi.



1 AS MANIFOLD
NO SCALE



2 SVE MANIFOLD
NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

DESIGN	BY Mark Hedglin	CHECKED THOMAS DIETSCH	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 53M5724	OLD SONORA MAINTENANCE STATION SOIL REMEDIATION	SHEET M-4
DETAILS	BY Rudy Sarte	CHECKED THOMAS DIETSCH			POST MILE	EXISTING WELL MODIFICATION DETAILS	
QUANTITIES	BY Mark Hedglin	CHECKED THOMAS DIETSCH					

TAEMWW Imperial - CCSC Rev. 01/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)						SHEET	OF
4/25/14	5/23/14	6/13/14	9/10/14	12/4/14			

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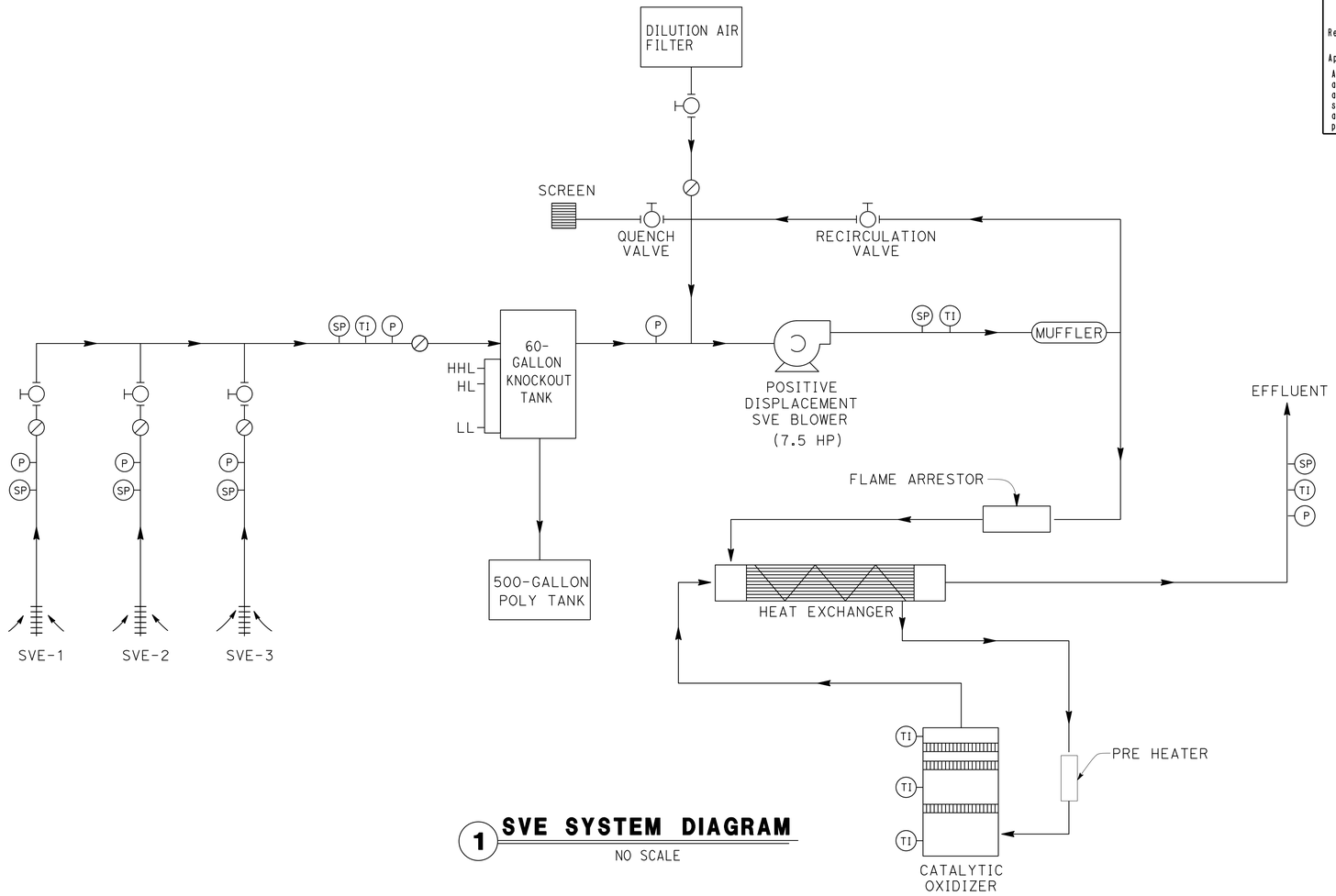
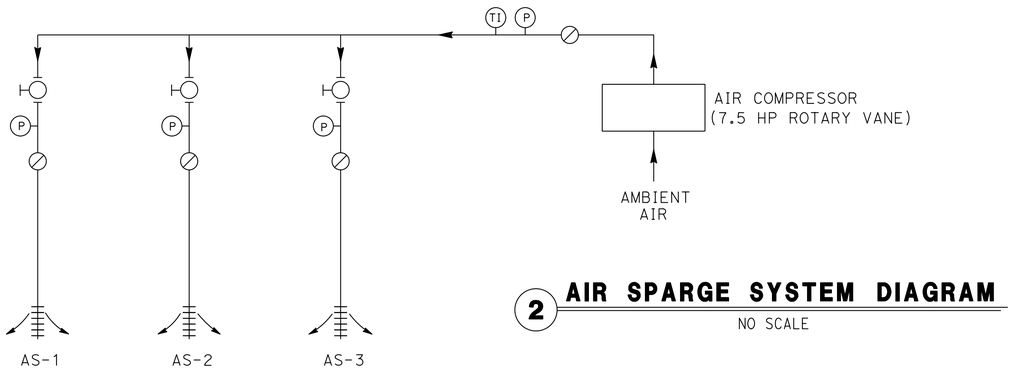


1 SVE SYSTEM DIAGRAM

NO SCALE



2 AIR SPARGE SYSTEM DIAGRAM

NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hurwitz for Fire and Life Safety South

Approval date: 07-24-14

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		18	25

REGISTERED MECHANICAL ENGINEER — DATE 6-9-14

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK HEDGLIN — No. M32912 — Exp. 9-30-16 MECH — STATE OF CALIFORNIA

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DESIGN	BY Mark Hedglin	CHECKED THOMAS DIETSCH	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 53M5724
DETAILS	BY Rudy Sarte	CHECKED THOMAS DIETSCH			POST MILE
QUANTITIES	BY Mark Hedglin	CHECKED THOMAS DIETSCH			

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

MANIFOLD DETAILS

SHEET M-5

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 4/25/14 5/23/14 6/13/14 9/10/14

SHEET OF

TAEMWW Imperial - CCSC Rev. 01/13

14-APR-2015 07:06

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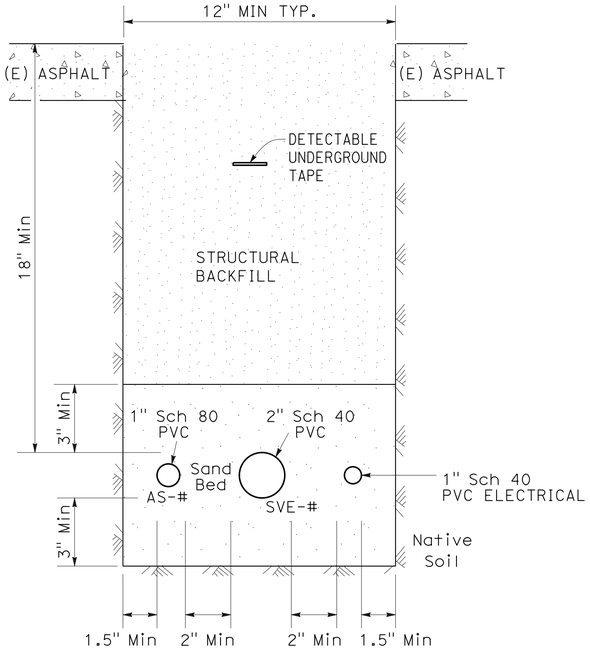
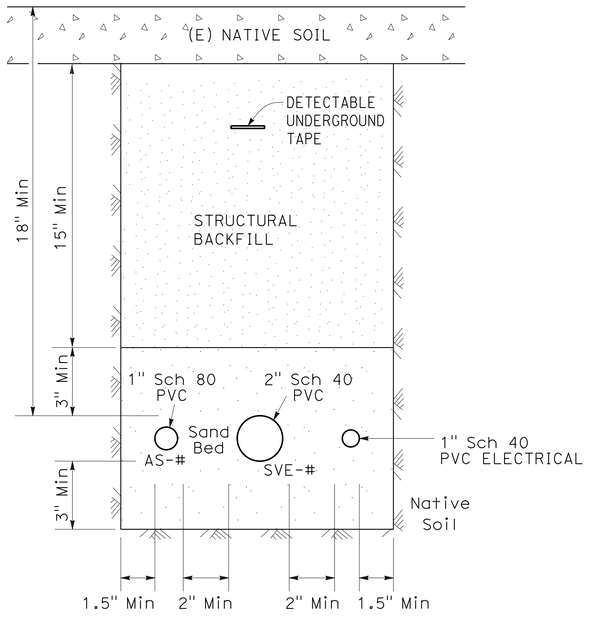


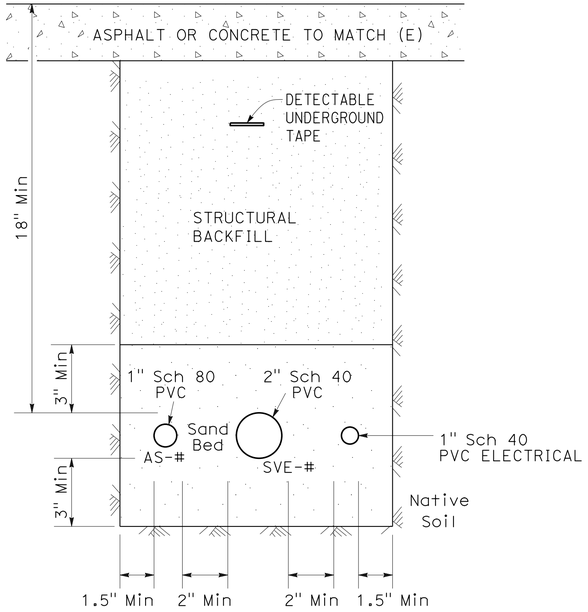
1 AS/SVE TRENCH ON CALTRANS PROPERTY

NO SCALE



2 AS/SVE TRENCH OUTSIDE CALTRANS PROPERTY

NO SCALE



3 AS/SVE TRENCH OUTSIDE CALTRANS PROPERTY

NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Humphrey (for) Fire and Life Safety South

Approval date: 07-24-14

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.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		19	25

REGISTERED MECHANICAL ENGINEER — 9-15-14 DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK HEDGLIN No. M32912 Exp. 9-30-16 MECH — STATE OF CALIFORNIA

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DESIGN	BY Mark Hedglin	CHECKED THOMAS DIETSCH	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 53M5724
DETAILS	BY Rudy Sarte	CHECKED THOMAS DIETSCH			POST MILE
QUANTITIES	BY Mark Hedglin	CHECKED THOMAS DIETSCH			

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

TRENCH & PIPING DETAILS

SHEET M-6

TAEMWW Imperial - CCSC Rev. 01/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3615 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)						SHEET	OF
4/25/14	5/22/14	6/12/14	9/10/14				

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GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING (S) WALL (S)	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
CEILING (R) WALL (R)	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
CEILING (X) WALL (X)	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
R	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED 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, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE.
	EXAMPLE : (4) F2-2x32 — (4) NUMBER OF FIXTURES; F FLUORESCENT; 2 DESIGN TYPE; 2 LAMPS; 32 WATT LAMPS
(B) (B)	BLANK OUTLET
(J) (J)	JUNCTION BOX
(D)	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
(GFCI)	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
(GFCI) WP	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
R	RANGE OUTLET
(C)	CLOCK HANGER RECEPTACLE
(F)	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	SWITCH AND SINGLE RECEPTACLE
S	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
R	RADIO OUTLET
TV	TELEVISION OUTLET
M	MICROPHONE OUTLET
T	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S_2	DOUBLE-POLE SWITCH
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_D	AUTOMATIC DOOR
S_K	KEY OPERATED SWITCH
S_P	SWITCH AND PILOT LIGHT
S_{MC}	MOMENTARY CONTACT SWITCH
S_{RC}	REMOTE CONTROL SWITCH
S_{WP}	WEATHERPROOF SWITCH
S_F	FAN SWITCH
S_L	LIGHT SWITCH
S_H	HEATER SWITCH
S_{VS}	VARIABLE SPEED MOTOR CONTROL SWITCH
S_{CHLF}	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S_1^O	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S_2^O	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
S_M	MOTION SENSOR SWITCH
S_T	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
S_{HP}	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
T_S	TIMER SWITCH
	PUSHBUTTON
L	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	COMBINATION BELL-BUZZER
PS	PRESSURE SWITCH
R	CONTROL RELAY
FS	FLOW SWITCH
PEU	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
H	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
MC	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 ½" UNLESS OTHERWISE NOTED.
A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
SM	SURFACE METAL RACEWAY
(2) ½"C, PVC, 2#12	(2) NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT); ½" CONDUIT SIZE; C CONDUIT TYPE; 2#12 CONDUCTOR INFO (PER CONDUIT)
MC	CONDUIT, RIGID STEEL, UNDERGROUND
PVC	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
X	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
	POLE
OC	OCCUPANCY SENSOR
P	OCCUPANCY SENSOR POWER PACK
P	MANUAL PULL STATION
AV	AUDIO/VISUAL ALARM DEVICE
H	HEAT DETECTOR
S	SMOKE DETECTOR
G	GLASS BREAK DISCRIMINATOR
C	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
C	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
K	KEYPAD FOR ALARM SYSTEM
W	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
(T)	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
CHLF	COMBINATION HEAT, LIGHT, AND FAN UNIT
A / EE-2	A SECTION/ELEVATION LETTER; EE-2 SHEET NUMBER
1 / EE-2	1 DETAIL NUMBER; EE-2 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
-E---E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---x-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
S	EXISTING SWITCH-REMOVE
J	EXISTING JUNCTION BOX-TO REMAIN
J	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

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

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		20	25

Mark Cheap — REGISTERED ELECTRICAL ENGINEER — 09-15-14 DATE

2-02-15 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Mark Cheap — No. E 15795 — Exp. 12-31-16 — ELEC — STATE OF CALIFORNIA

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Reviewed by: J. Humphreys — Fire and Life Safety South
Approval date: 07-24-14
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.

	BY	CHECKED
DESIGN	STEVEN ROY	Jipinderpal Kaur
DETAILS	DALI ZHOU	STEVEN ROY
QUANTITIES	STEVEN ROY	Jipinderpal Kaur

STATE OF **CALIFORNIA** DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724 POST MILE _____

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

LEGEND

SHEET **EE0-0**

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)							SHEET	OF
4-1-14	4-30-14	5-30-14	7-10-14	9-15-14			1	

TAEMWW Imperial - CCSC Rev. 02/13

14-APR-2015 07:05

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ABBREVIATIONS

A

A	AMPERES
AC	ALTERNATING CURRENT or ASPHALT CONCRETE
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
Approx	APPROXIMATE
AR	ALARM RESET
AS	AIR SPARGE

B

BC	BARE COPPER
BD	BUILDING DISCONNECT
Bldg	BUILDING
BP	BOOSTER PUMP
Brk	BREAKER

C

C	CONDUIT
Cat	CATEGORY
CB	CIRCUIT BREAKER
CC	CENTER CHANNEL LIGHT
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONTROL DISCONNECT
Ckt	CIRCUIT
CL	CHAIN LINK
℄	CENTER LINE
Clr	CLEAR or CLEARANCE
CM	CENTER MARGIN LIGHT
CMS	CHANGEABLE MESSAGE SIGN
COMM	COMMUNICATION
Conc	CONCRETE
CR	CONTROL RELAY
CSW	CURRENT SWITCH

D

D	DEPTH
DC	DIRECT CURRENT
DI	DIGITAL INPUT
Dia	DIAMETER
DLC	LOOP DETECTOR LEAD-IN CABLE
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH

E

(E)	EXISTING
EB	EASTBOUND
EF	EXHAUST FAN
Elev	ELEVATION
EMS	EXTINGUISHABLE MESSAGE SIGN

F

F	FUSE
FG	FINISH GRADE
FL	FAILURE LIGHT
FLA	FLASHER
Flex	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FO	FIBER OPTIC
FR	FAILURE RESET or FLAME RESISTANT
FS	FLOAT SWITCH

G

G	GROUND
Ga	GAUGE
Galv	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL

H

hp	HORSEPOWER
HPS	HIGH PRESSURE SODIUM

I

IC	IRRIGATION CONTROLLER
ICC	IRRIGATION CONTROLLER CABINET
IR	INDUCTION RELAY
ISR	INTRINSICALLY SAFE RELAY

J

JB	JUNCTION BOX

K

kV	KILOVOLT
kVA	KILOVOLT AMPERES
kW	KILOWATT

L

L	LIGHT or LENGTH
LC	LIGHTING CONTACTOR
LCD	LIQUID CRYSTAL DISPLAY
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LDCI	LEAK DETECTOR CIRCUIT INTERRUPTER
LED	LIGHT EMITTING DIODE
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LPS	LOW PRESSURE SODIUM
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
LTO	LIGHT TRANSFORMER OVERLOAD

M

Max	MAXIMUM
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MD	MOTOR DISCONNECT
MH	MOUNTING HEIGHT
Min	MINIMUM
Misc	MISCELLANEOUS
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT

N

(N)	NEW
Nav	NAVIGATIONAL LIGHTS
NB	NEUTRAL BUS or NORTHBOUND
NC	NORMALLY CLOSED
No.	NUMBER
Nos.	NUMBERS
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER

O

O/C	ON CENTER
OG	ORIGINAL GROUND
OH	OVERHEAD
OL	OVERLOAD

P

P	POLE (CIRCUIT BREAKER)
PB	PULL BOX or PUSHBUTTON
PCC	PORTLAND CONCRETE CEMENT
PCP	PUMP CONTROL PANEL
PD	PUMP DISCONNECT
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
PFR	PHASE FAILURE RELAY
PG&E	PACIFIC GAS AND ELECTRIC
ℙ	PLATE
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE

R

RD	RECEPTACLE DISCONNECT
RES	RESISTOR
Rm	ROOM
RTB	RADIO TERMINAL BOARD
R/W	RIGHT OF WAY

S

S	STARTER COIL
Sch	SCHEDULE
SD	SERVICE DISCONNECT
Sec	SECONDS
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
Sq	SQUARE
SS	SELECTOR SWITCH
ST	STARTER
Std	STANDARD
SV	SOLENOID VALVE
SVE	SOIL VAPOR EXTRACTION

T

TB	TERMINAL BLOCK
TC	TELEPHONE CABLE
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
Tot	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
Typ	TYPICAL

U

UPS	UNINTERRUPTIBLE POWER SUPPLY

V

V	VOLT(S)
Var	VARIABLE or VARIES

W

W	WATT or WIDTH
WB	WESTBOUND
WIM	WEIGH-IN-MOTION
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF
WSMS	WEIGH STATION MESSAGE SIGN

X

XFMR	TRANSFORMER

SYMBOLS

∠	ANGLE
@	AT
°	DEGREES
Δ	DELTA
Ω	OHM(S)
ø	PHASE
±	PLUS OR MINUS

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hunnycutt for
Fire and Life Safety South

Approval date: 07-24-14

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.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		21	25

Mark Cheap 09-15-14
REGISTERED ELECTRICAL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Mark Cheap
No. E 15795
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

STANDARD NOTES

- AB Abandon. If applied to conduit, remove conductors.
- BC Install pull box in existing conduit run.
- CB Install conduit into existing pull box.
- CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF Conduit to remain for future use. Remove conductors, install pull rope and plug.
- FA Remove foundation above grade and abandon foundation below grade.
- RL Relocate equipment.
- RLD Relocated equipment.
- SC Splice new to existing conductors.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY STEVEN ROY	CHECKED Jipinderpal Kaur	
DETAILS	BY DALI ZHOU	CHECKED STEVEN ROY	
QUANTITIES	BY STEVEN ROY	CHECKED Jipinderpal Kaur	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE _____

OLD SONORA MAINTENANCE STATION
SOIL REMEDIATION

NOTES & ABBREVIATIONS

SHEET EE0-1

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
4-1-14	4-30-14	5-30-14	7-10-14	9-15-14						2	

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hennyke for
Plans and Life Safety South

Approval date: 07-24-14

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Mark Cheap 09-15-14
REGISTERED ELECTRICAL ENGINEER DATE

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Mark Cheap
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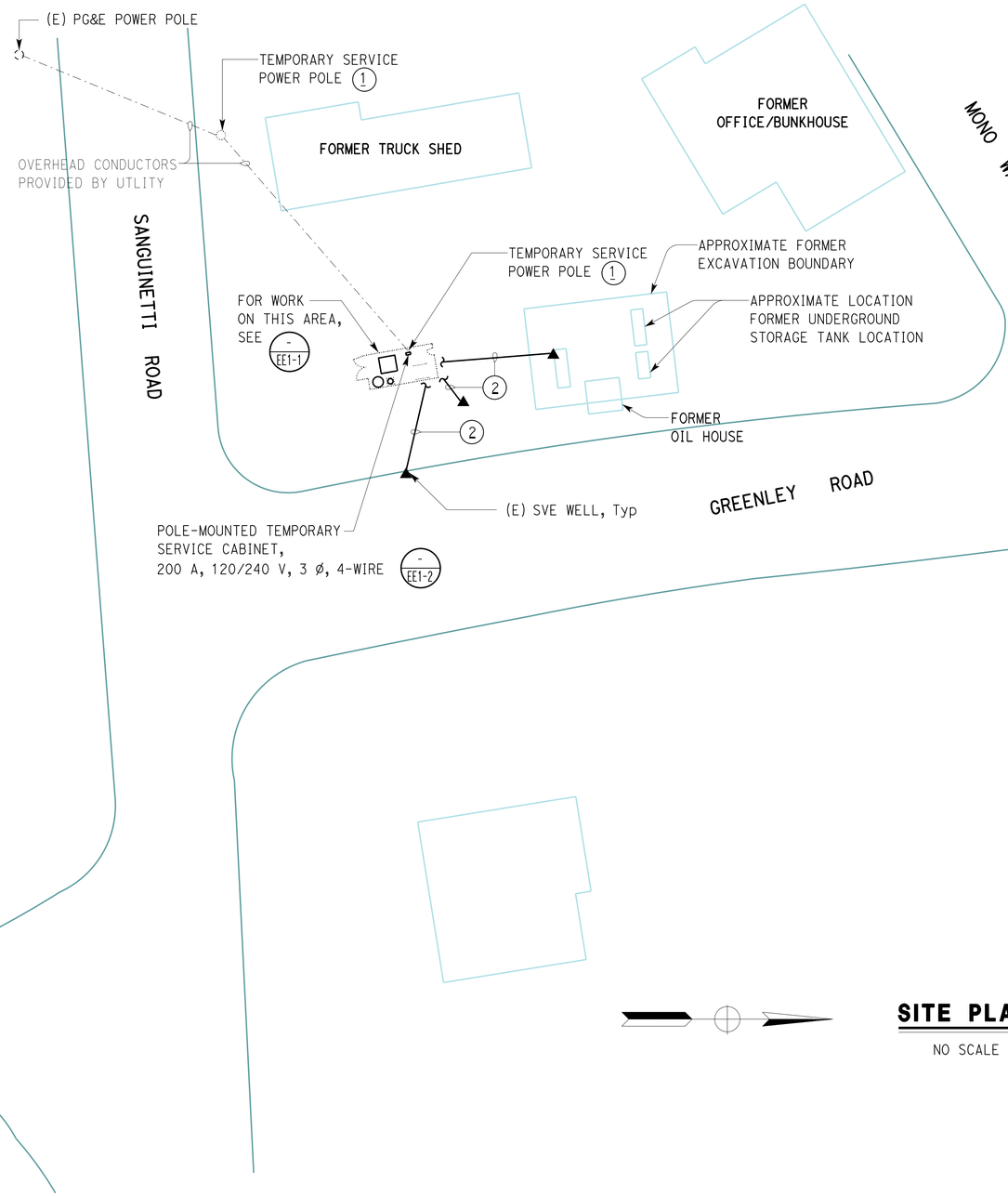

Notes:

(1) Install temporary Service power pole per PG&E requirements.

(2) 1"C, PVC, MT converge at No. 6 Pull Box as shown on sheet EE1-1. For trenching information, see Mechanical sheets.

SITE PLAN

NO SCALE

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR	Jack Schoff		
DESIGN ENGINEER	Mark Cheap		
DESIGN	BY STEVEN ROY	CHECKED Jipinderpal Kaur	
DETAILS	BY DALI ZHOU	CHECKED STEVEN ROY	
QUANTITIES	BY STEVEN ROY	CHECKED Jipinderpal Kaur	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE _____

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

SITE PLAN

SHEET EE1-0

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

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REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
4-1-14	4-30-14	5-30-14	7-10-14	9-15-14					3	

14-APR-2015 07:06

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: James J. Hurrey for FSE
Fire and Life Safety South

Approval date: 07-24-14

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		23	25

Mark Cheap — 09-15-14
REGISTERED ELECTRICAL ENGINEER — DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Mark Cheap
No. E 15795
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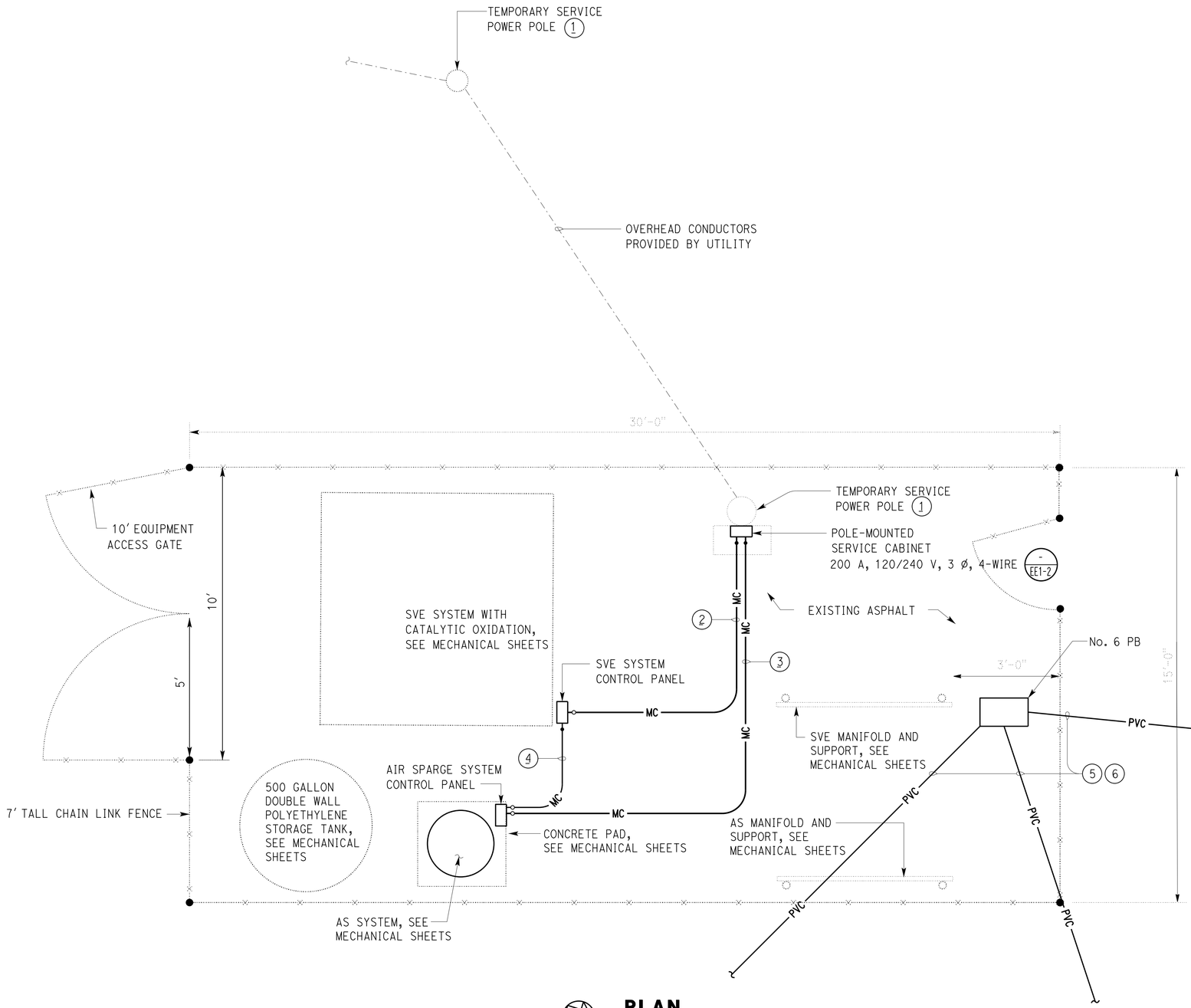

PLAN
1/2" = 1'-0"

NOTES:

(1) Install temporary service power pole per PG&E requirements. For Continuation, See sheet EE1-0.

(2) 3" Rigid metal conduit, 4#3/0, 1#6G.

(3) 1½" Rigid metal conduit, 4#6, 1#8G.

(4) ¾" Rigid metal conduit, conductors as required for control of Air Sparge System.

(5) 1"C, MT to existing SVE Wells. For Continuation, see sheet EE1-0.

(6) See mechanical sheets for shared trenching information.

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

APPROVED FOR ELECTRICAL WORK ONLY

	BY	CHECKED
DESIGN	STEVEN ROY	Jipinderpal Kaur
DETAILS	DALI ZHOU	STEVEN ROY
QUANTITIES	STEVEN ROY	Jipinderpal Kaur

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE _____

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

SOIL VAPOR EXTRACTION LAYOUT

SHEET **EE1-1**

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
4-1-14	4-30-14	5-30-14	7-10-14	9-15-14						4	

14-APR-2015 07:06

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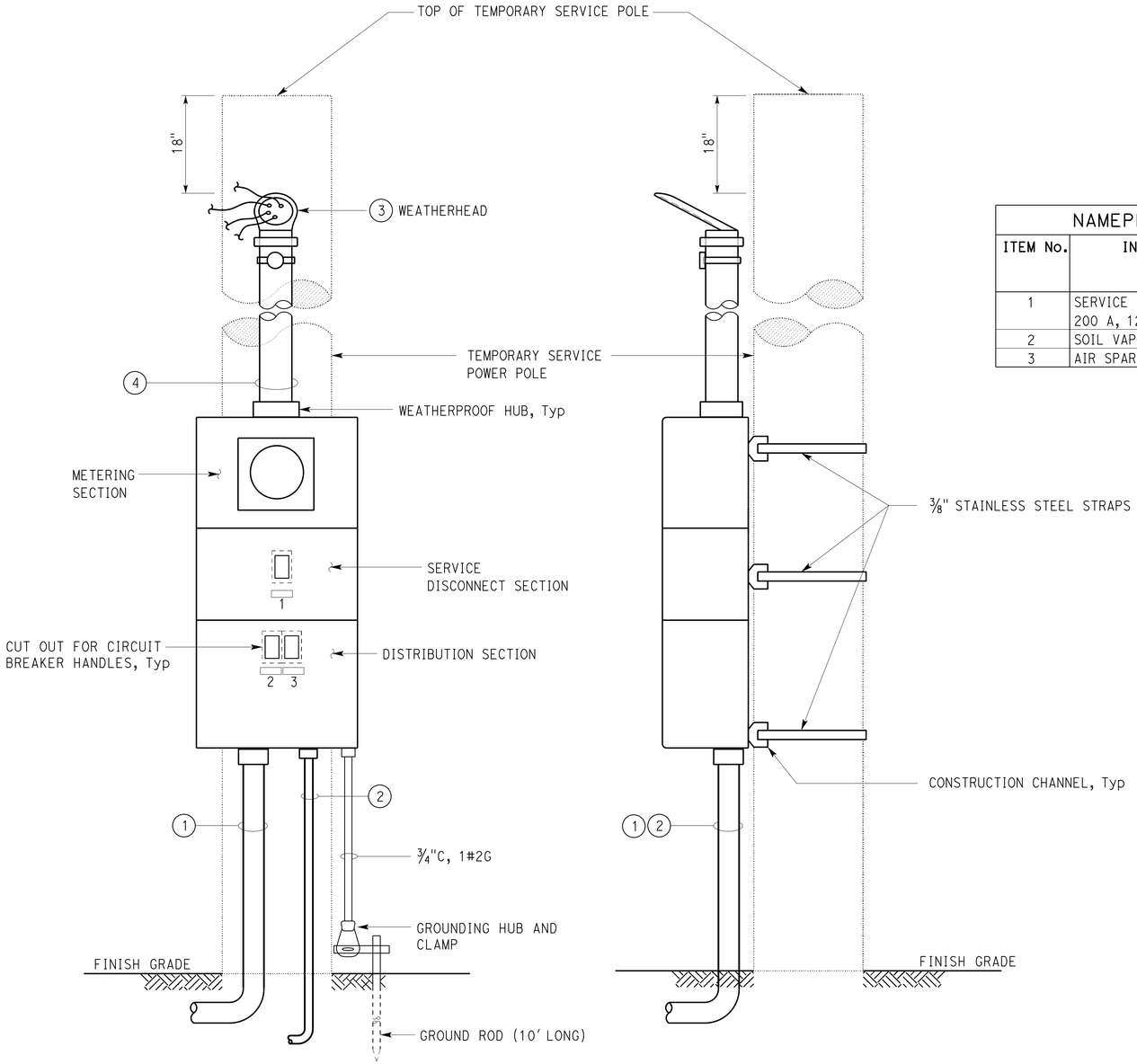

FRONT VIEW

(EXTERIOR DOOR NOT SHOWN)

SIDE VIEW

A ELEVATION

NO SCALE

NAMEPLATE SCHEDULE		
ITEM No.	INSCRIPTION	LETTER HEIGHT (INCH)
1	SERVICE DISCONNECT 200 A, 120/240 V, 3-PHASE	½
2	SOIL VAPOR EXTRACTION SYSTEM	⅛
3	AIR SPARGE SYSTEM	⅛

Notes:

1. 3" Rigid metal conduit, 4#3/0, 1#6G.
2. 1½" Rigid metal conduit, 4#6, 1#8G.
3. Install weatherhead per PG&E requirements.
4. 3"C, install conductors per PG&E requirements.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hunnicutt for FPS and Life Safety South

Approval date: 07-24-14

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.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		24	25

Mark Cheap 09-15-14
REGISTERED ELECTRICAL ENGINEER DATE

2-02-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Mark Cheap
No. E 15795
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY STEVEN ROY	CHECKED Jipinderpal Kaur
DETAILS	BY DALI ZHOU	CHECKED STEVEN ROY
QUANTITIES	BY STEVEN ROY	CHECKED Jipinderpal Kaur

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE _____

OLD SONORA MAINTENANCE STATION SOIL REMEDIATION

POLE MOUNTED SERVICE CABINET

SHEET EE1-2

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
4-1-14	4-30-14	5-30-14	7-10-14	9-15-14						5	

14-APR-2015 07:06

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

Reviewed by: J. Hurwitz
Fire and Life Safety South

Approval date: 07-24-14

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.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Tuo	5724		25	25

Mark Cheap 09-15-14
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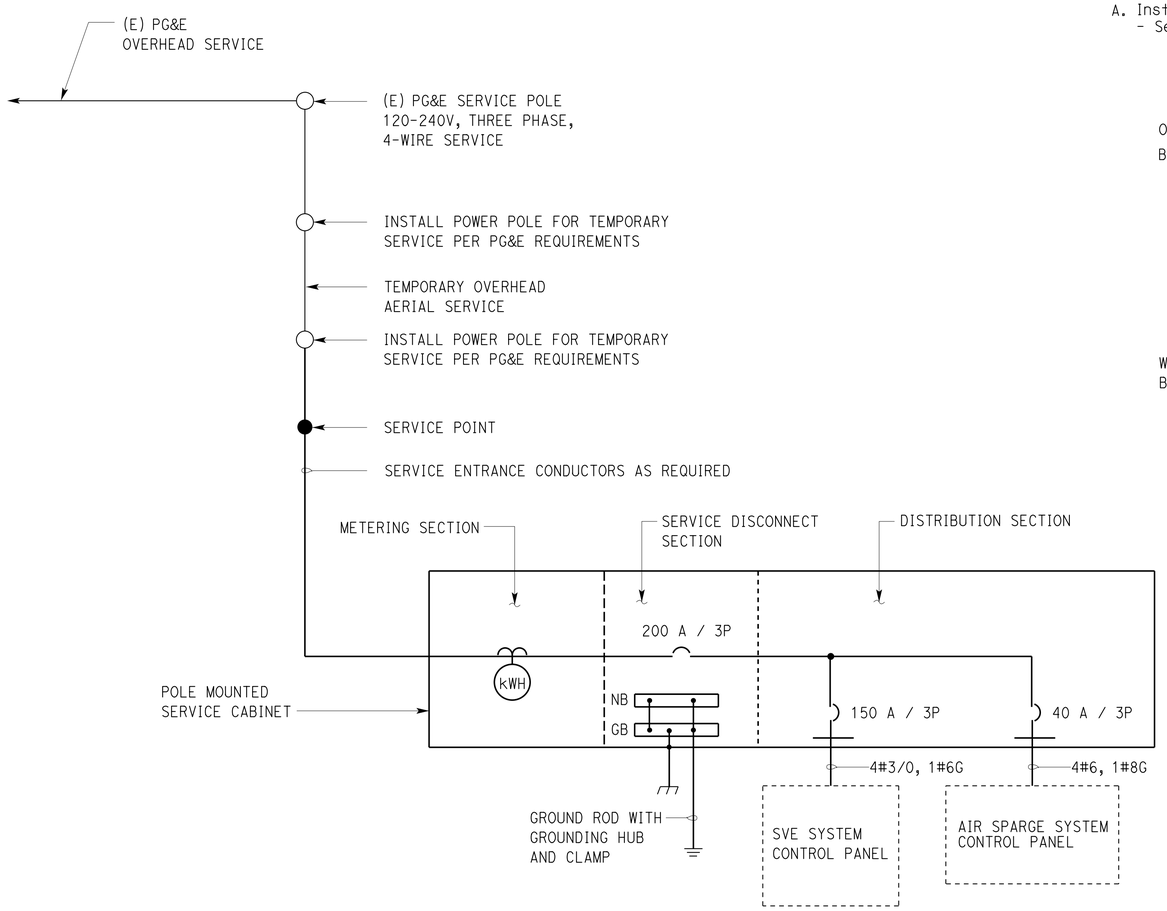
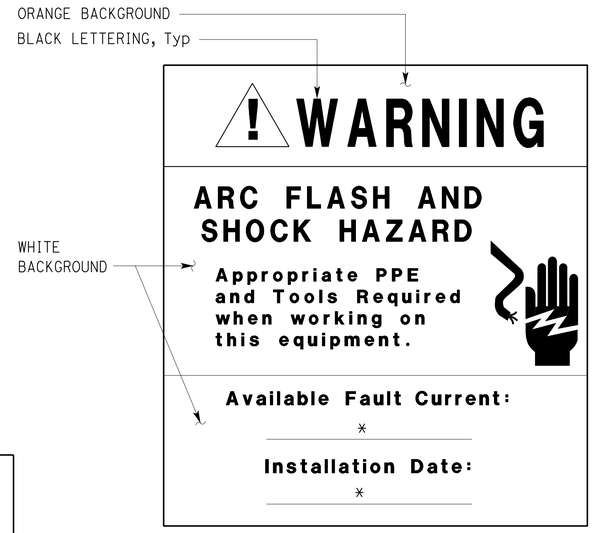


SINGLE LINE DIAGRAM

GENERAL NOTE:

A. Install Arc Flash Warning labels on the following equipment:
   - Service Equipment.



1 **WARNING LABEL**
NO SCALE

NOTES:

- Legibly marked label with the available fault current to comply with CEC 110.24 (A)
- Warning label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material

* The Engineer will provide this data to the Contractor after Utility Service related work is done by the local Electric Utility Company.

EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS

APPROVED FOR ELECTRICAL WORK ONLY

	BY	CHECKED
DESIGN	STEVEN ROY	Jipinderpal Kaur
DETAILS	DALI ZHOU	STEVEN ROY
QUANTITIES	STEVEN ROY	Jipinderpal Kaur

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 53M5724
POST MILE _____

OLD SONORA MAINTENANCE STATION
SOIL REMEDIATION

SINGLE LINE DISTRIBUTION DIAGRAM

SHEET EE1-3

TAEMWW Imperial - CCSC Rev. 02/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.:10-0P6704
PROJECT NUMBER & PHASE: 1000000191

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)
4-1-14 | 4-30-14 | 5-30-14 | 7-10-14 | 9-15-14

SHEET 6 OF

14-APR-2015 07:06

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