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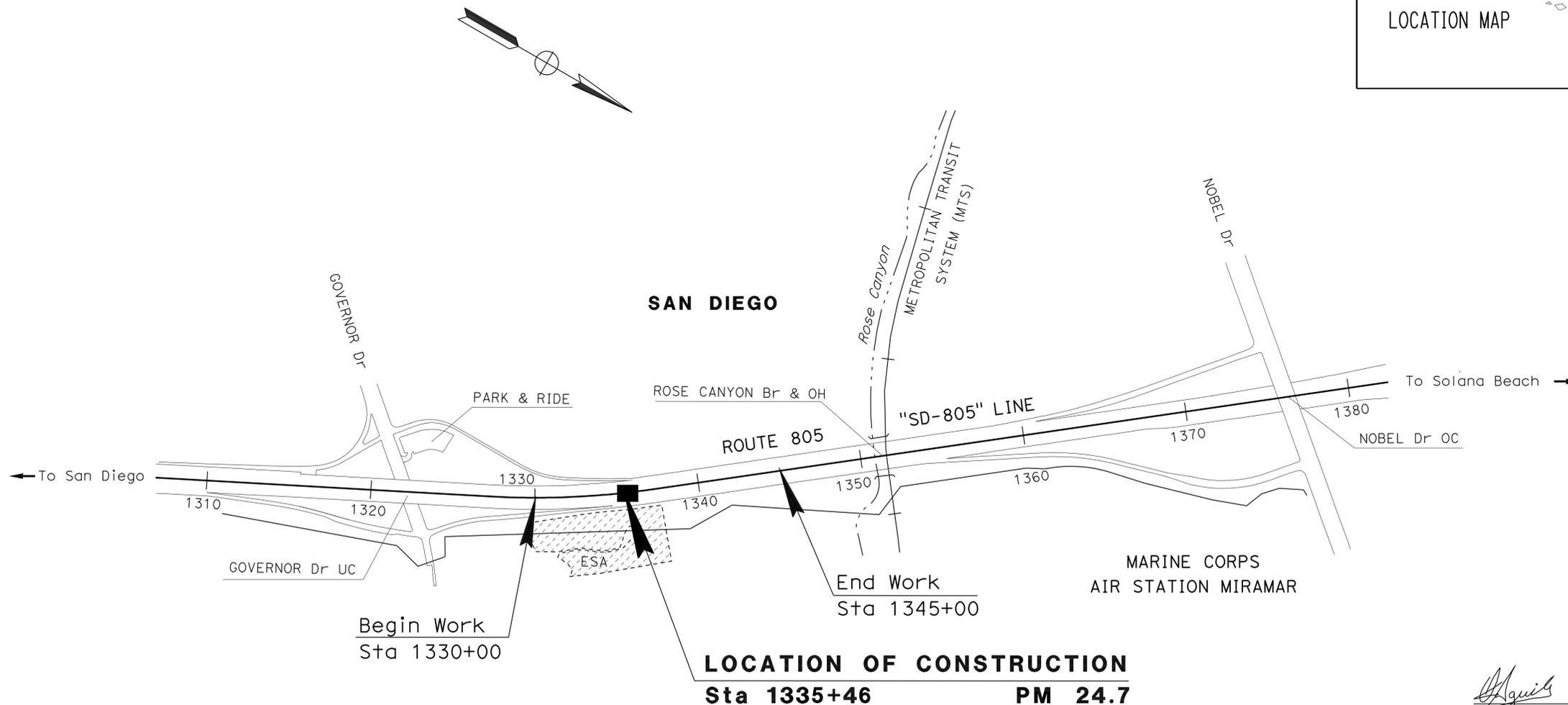
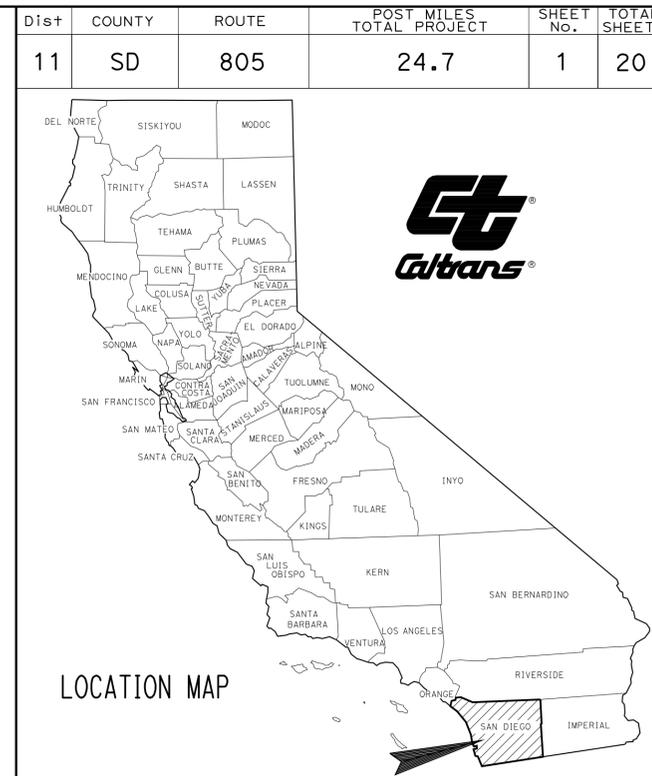
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN DIEGO COUNTY
IN SAN DIEGO AT
0.3 MILE NORTH OF GOVERNOR DRIVE UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



ENVIRONMENTALLY SENSITIVE AREA

Oscar Aguilar
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE 08-09-10
September 20, 2010
PLANS APPROVAL DATE
No. C 62571
Exp. 06-30-12
CIVIL
STATE OF CALIFORNIA

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

NO SCALE

CONTRACT No.	11-288904
PROJECT ID	1100000352

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	2	20

Wayne G. Strong 08-11-10
 PROFESSIONAL LAND SURVEYOR DATE
 09-20-10
 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.

L.S. 5024
 Exp. 12/31/2011

NOTES:

- CONTACT DISTRICT 11, LAND SURVEY DIVISION, PHONE (858)467-4305, FOR ADDITIONAL INFORMATION OR QUERIES REGARDING THIS SURVEY PROJECT CONTROL.
- BASIS OF BEARINGS AND COORDINATES**
 FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, 2007.00 EPOCH ADJUSTMENT [CCS 83 (2007)], ZONE 6. 1ST AND 3RD ORDER PROJECT CONTROL STATIONS WERE ESTABLISHED IN OCTOBER 2007 BASED ON THE CRITERIA SET FORTH IN THE FEDERAL GEODETIC CONTROL SUBCOMMITTEE'S "GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES" REPRINTED AUGUST 1, 1989.

 THIS GPS FAST STATIC SURVEY WAS CONSTRAINED TO CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) "NSSS", "P472" AND "DSME", PER GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC), PER THE ABOVE-REFERENCED STANDARDS. LISTED 3RD ORDER STATIONS MET 1ST ORDER PROCEDURES, BUT DUE TO THE CHARACTER OF THE MONUMENT, DID NOT MEET 1ST ORDER STANDARDS.
- BASIS OF ELEVATIONS**
 FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 CGPS). ELEVATIONS WERE ESTABLISHED BY GPS FAST STATIC SURVEY CONSTRAINING TO CGPS STATION "NSSS" AND MEET CALTRANS 2ND ORDER CLASS II ACCURACY REQUIREMENTS.
- IN THE EVENT GPS MACHINE CONTROL/GUIDANCE IS USED FOR THIS PROJECT, THE CONTRACTOR SHALL CONTACT OR MEET WITH DISTRICT 11'S LAND SURVEY DIVISION TO OBTAIN THE CONTROL NECESSARY TO ESTABLISH A PROJECT CALIBRATION COMPATIBLE FOR ALL USERS.

ABBREVIATIONS:

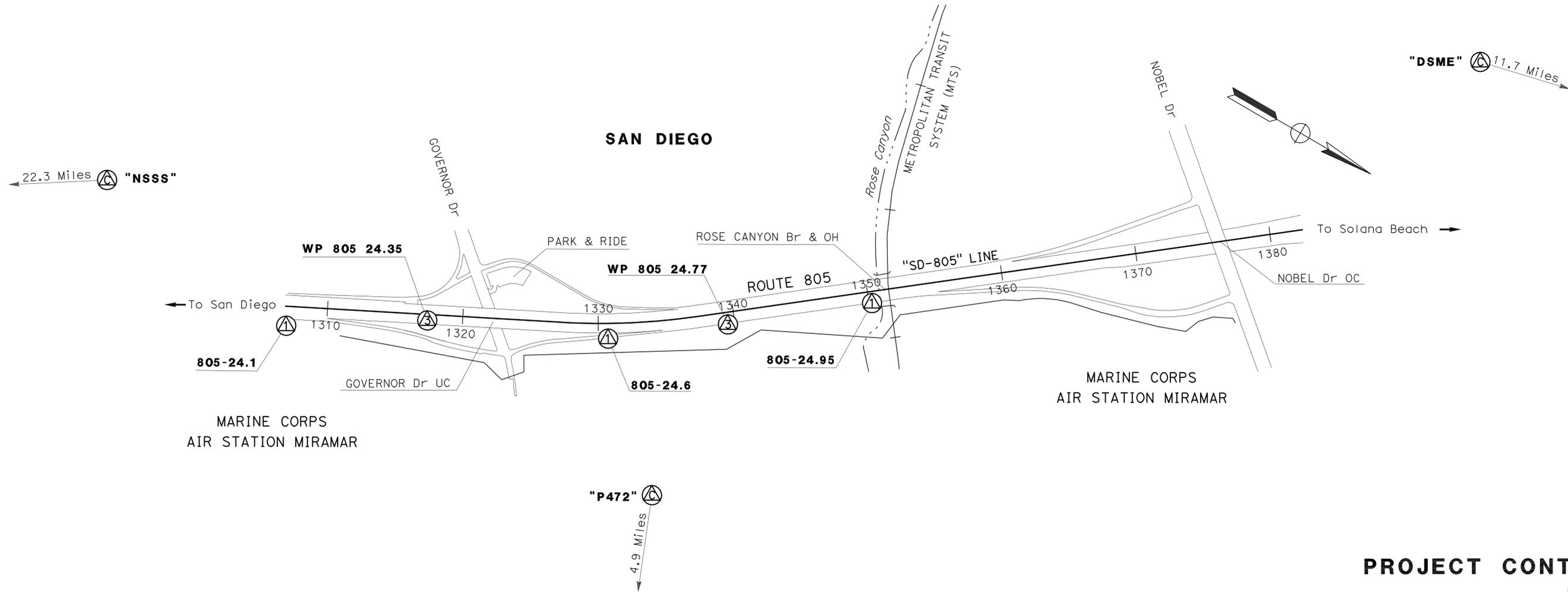
- CADT CALIFORNIA DEPARTMENT OF TRANSPORTATION
 IP IRON PIPE
 CSRN CALIFORNIA SPATIAL REFERENCE NETWORK

LEGEND:

- 1ST ORDER STATION
 3RD ORDER STATION
 CGPS STATION

CONTROL FOR DESIGN AND CONSTRUCTION

STATION DESIGNATION	ORDER	NORTHING	EASTING	ELEVATION	DESCRIPTION
DSME	CGPS	1,958,365.96	6,255,349.81	300.07	CGPS STATION PER CSRN
NSSS	CGPS	1,791,331.97	6,339,040.68	521.18	CGPS STATION PER CSRN
P472	CGPS	1,904,389.70	6,299,297.87	566.90	CGPS STATION PER CSRN
805-24.1	1ST	1,891,787.80	6,275,637.75	389.47	2 1/4" CADT BRASS DISK IN 1" IP
805-24.6	1ST	1,893,889.19	6,274,528.16	377.91	2 1/4" CADT BRASS DISK IN 2" IP
805-24.95	1ST	1,895,441.28	6,273,324.65	337.44	2 1/4" CADT BRASS DISK IN DRAIN
WP 805 24.35	3RD	1,892,688.18	6,275,081.79	377.31	PK & WASHER IN 1" IP
WP 805 24.77	3RD	1,894,600.83	6,273,994.25	358.74	PK & WASHER IN ASPHALT



PROJECT CONTROL
NO SCALE **PC-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LAND SURVEYS
 WAYNE STRONG
 NED SALMAN
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 BRUCE UROUHART

LAST REVISION | DATE PLOTTED => 01-OCT-2010
 08-11-10 | TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	3	20

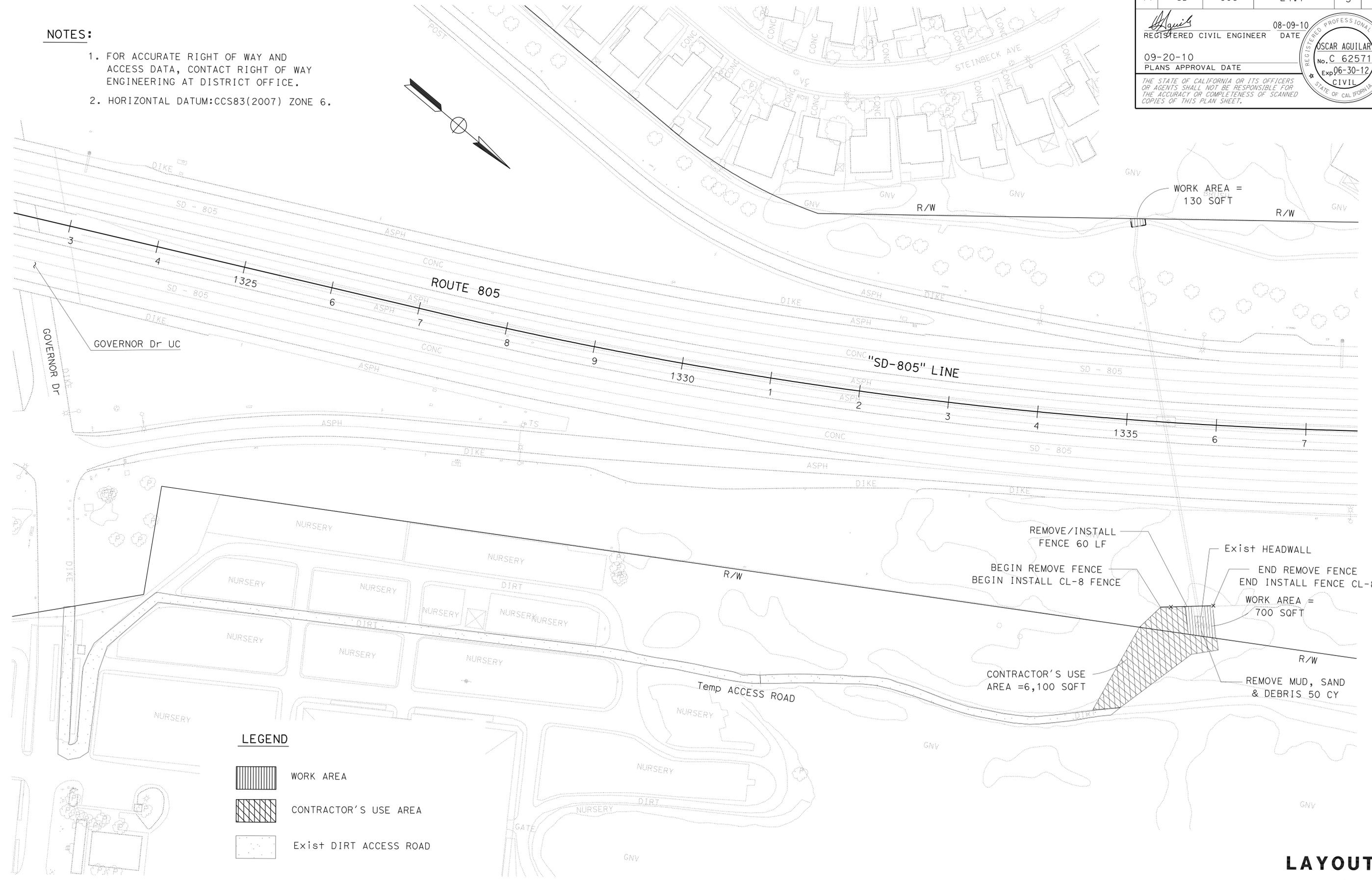
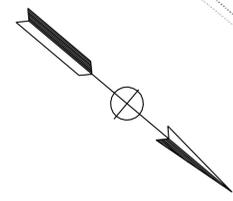

 08-09-10
 REGISTERED CIVIL ENGINEER DATE

09-20-10
 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.

REGISTERED PROFESSIONAL ENGINEER
OSCAR AGUILAR
 No. C. 62571
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA

- NOTES:**
- FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.
 - HORIZONTAL DATUM:CCS83(2007) ZONE 6.



LEGEND

	WORK AREA
	CONTRACTOR'S USE AREA
	Exist DIRT ACCESS ROAD

LAYOUT L-1

SCALE: 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans PROJECT DEVELOPMENT	OSCAR M. AGUILAR	08-09-10
	ABDUL MALIKYAR	
	ED HAJJ	

USERNAME => s127400
 DGN FILE => 1100000352ea001.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 2761

PROJECT NUMBER & PHASE

11000003521

LAST REVISION DATE PLOTTED => 01-OCT-2010
 08-16-10 TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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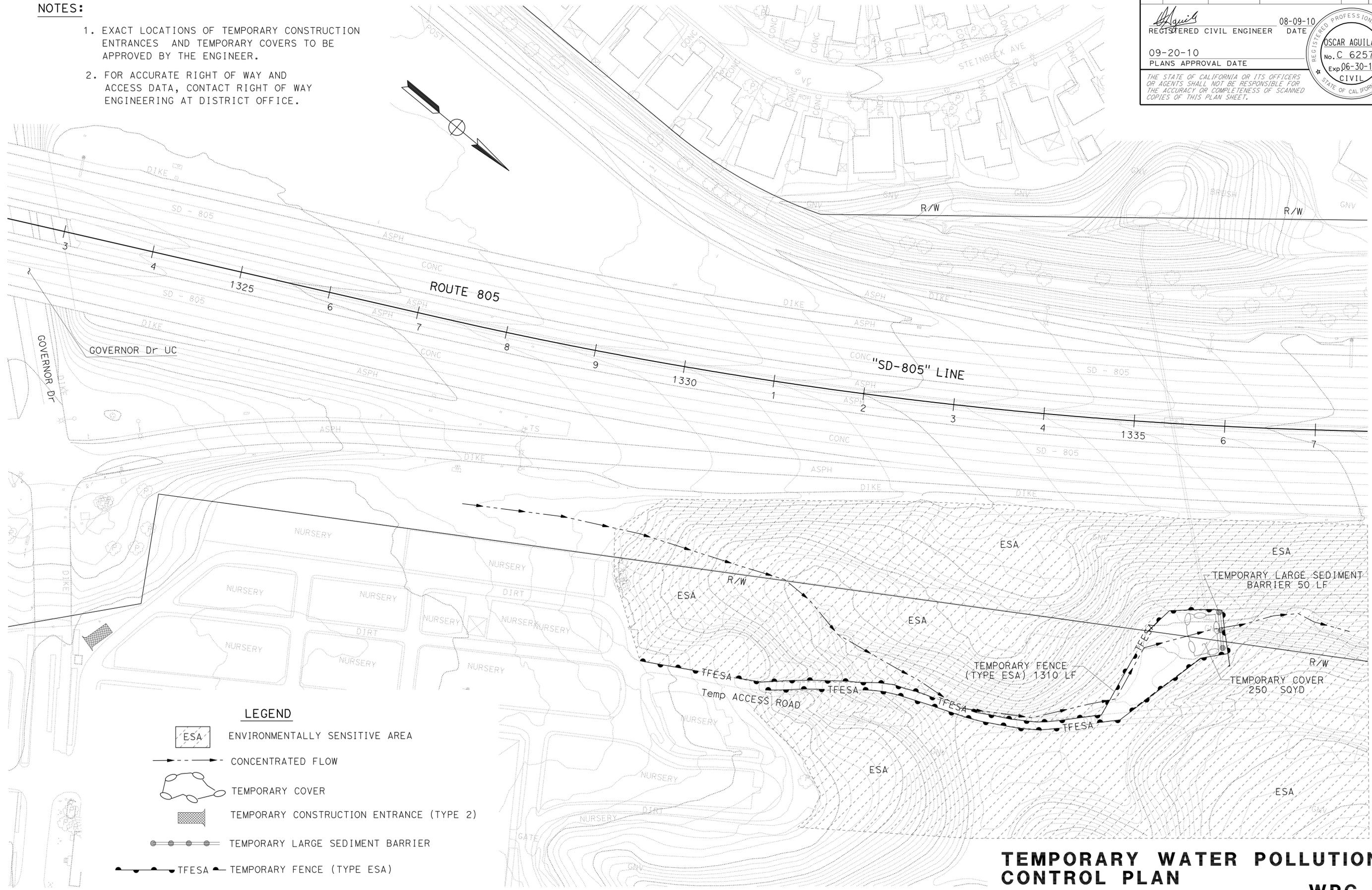
REGISTERED CIVIL ENGINEER DATE 08-09-10
 09-20-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 OSCAR AGUILAR
 No. C. 62571
 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 SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATIONS OF TEMPORARY CONSTRUCTION ENTRANCES AND TEMPORARY COVERS TO BE APPROVED BY THE ENGINEER.
2. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



TEMPORARY WATER POLLUTION CONTROL PLAN
WPC-1
 SCALE: 1"=50'

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	ED HAJJ	OSCAR M. AGUILAR ABDUL MALKIYAR	OSCAR M. AGUILAR

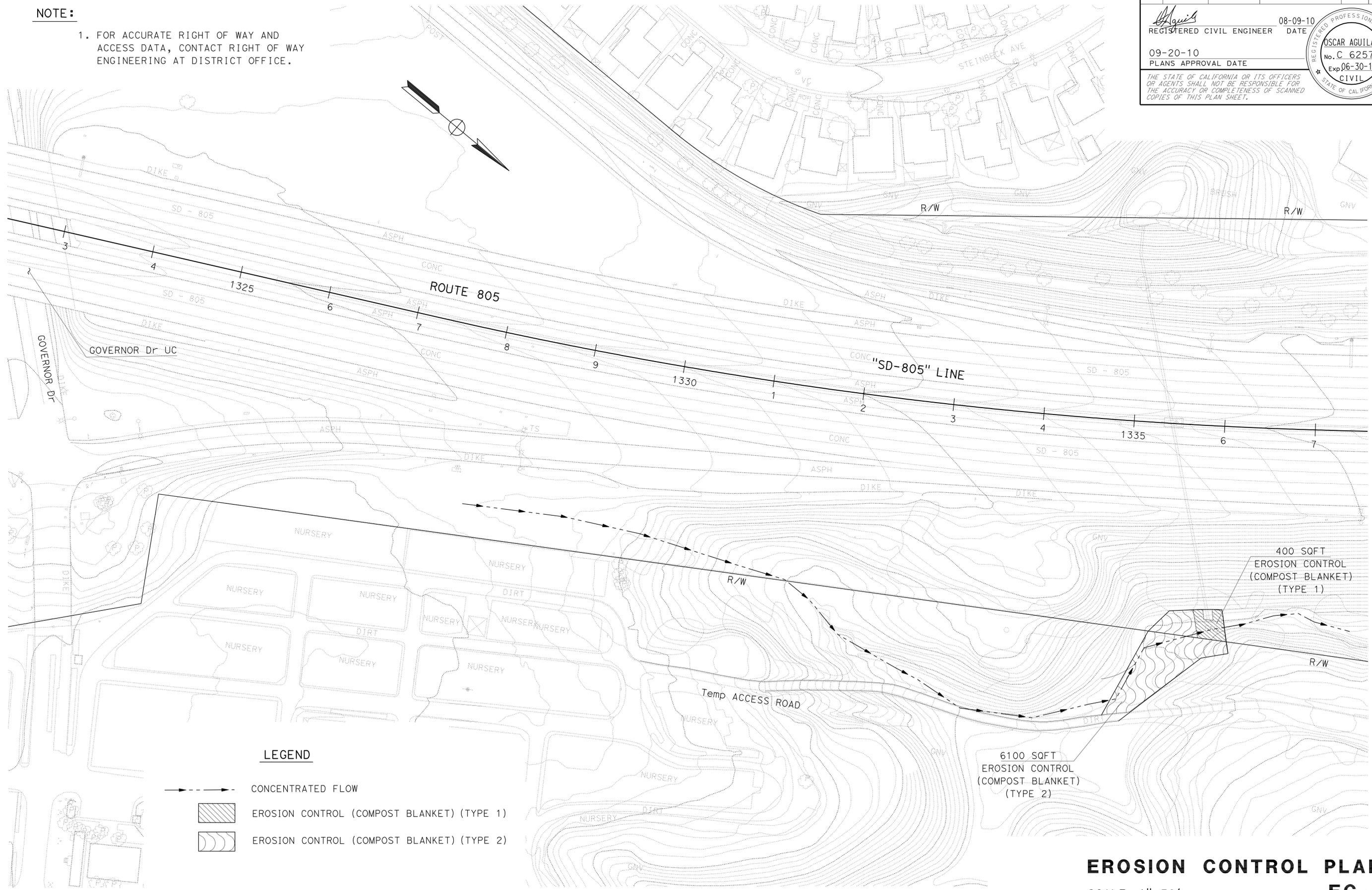
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	5	20

<i>[Signature]</i>	08-09-10
REGISTERED CIVIL ENGINEER	DATE
09-20-10	
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. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



LEGEND

- CONCENTRATED FLOW
- EROSION CONTROL (COMPOST BLANKET) (TYPE 1)
- EROSION CONTROL (COMPOST BLANKET) (TYPE 2)

EROSION CONTROL PLAN
EC - 1

SCALE: 1"=50'

THIS PLAN ACCURATE FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans PROJECT DEVELOPMENT	ED HAJJ	OSCAR M. AGUILAR	OSCAR M. AGUILAR
		ABDUL MALIKYAR	ABDUL MALIKYAR

USERNAME => s127400
 DGN FILE => 1100000352ge001.dgn

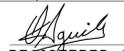


UNIT 2761

PROJECT NUMBER & PHASE

11000003521

LAST REVISION: DATE PLOTTED => 01-OCT-2010
 08-16-10 TIME PLOTTED => 15:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	6	20
 REGISTERED CIVIL ENGINEER			08-09-10 DATE		
09-20-10 PLANS APPROVAL DATE					
<small>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.</small>					

**EROSION CONTROL (COMPOST BLANKET)
COMPONENT QUANTITIES SUMMARY**

	EROSION CONTROL (COMPOST BLANKET)			PURE LIVE SEED lb (N)
	SQFT (N)	ACRE (N)	CY	
(TYPE 1)	400	0.01	3	0.02
(TYPE 2)	6100	0.14	38	1.9
	TOTAL		41	

NOTE:

(N) NOT A SEPARATE ITEM, FOR INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
FUNCTIONAL SUPERVISOR
ED HAJJ
CALCULATED-DESIGNED BY
CHECKED BY
OSCAR M. AGUILAR
ABDUL MALIKYAR
REVISED BY
DATE REVISED

**EROSION CONTROL QUANTITIES
ECQ - 1**



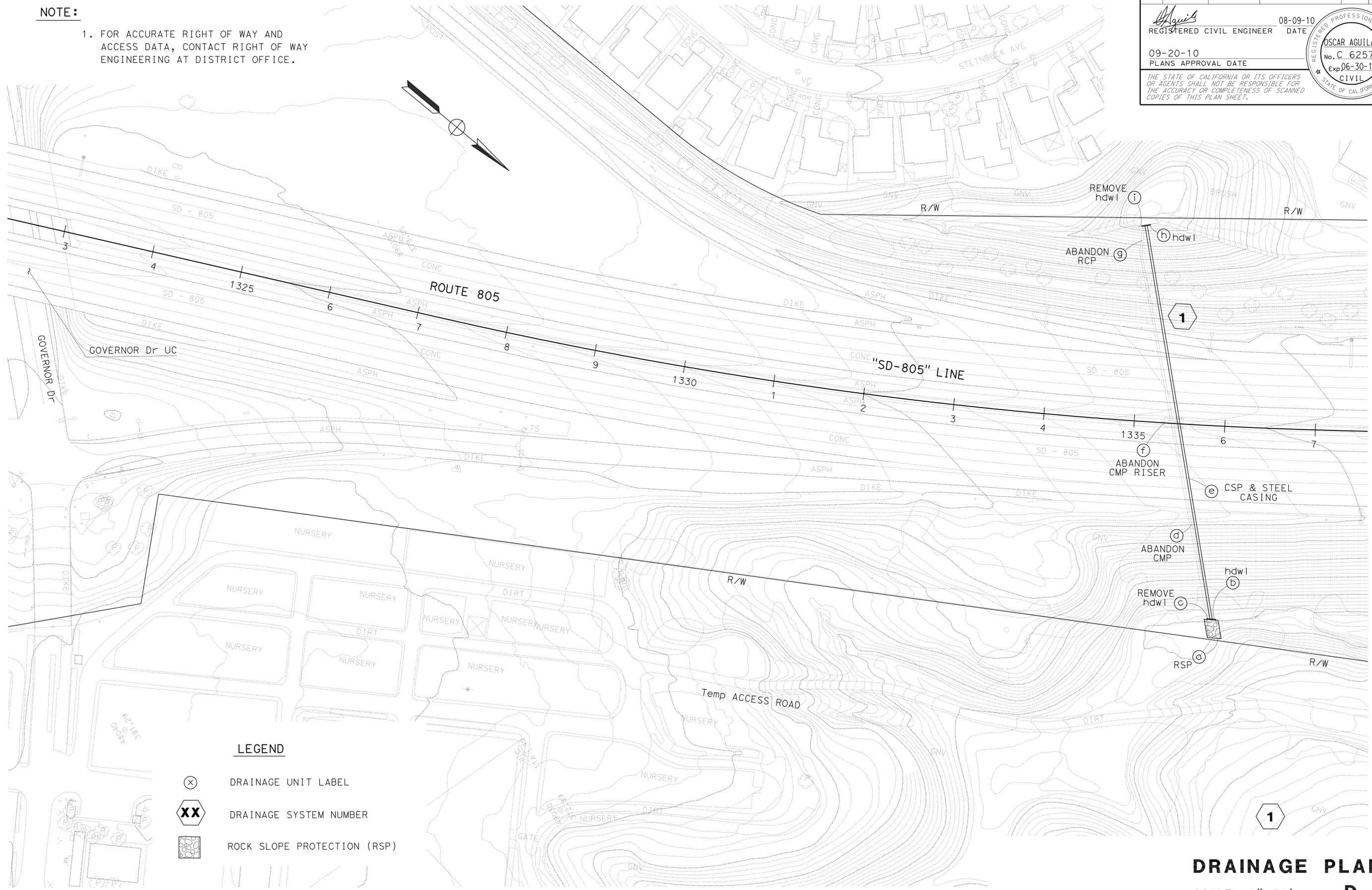
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	7	20

<i>Oscar Aguilar</i>	08-09-10
REGISTERED CIVIL ENGINEER	DATE
09-20-10	
PLANS APPROVAL DATE	

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NOTE :
 1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



LEGEND

	DRAINAGE UNIT LABEL
	DRAINAGE SYSTEM NUMBER
	ROCK SLOPE PROTECTION (RSP)

THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE PLAN
 SCALE: 1"=50'
D-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
FUNCTIONAL SUPERVISOR
ED HAJJ
CALCULATED/DESIGNED BY
CHECKED BY
OSCAR M. AGUILAR
ABDUL MALIKYAR
REVISOR BY
DATE REVISED

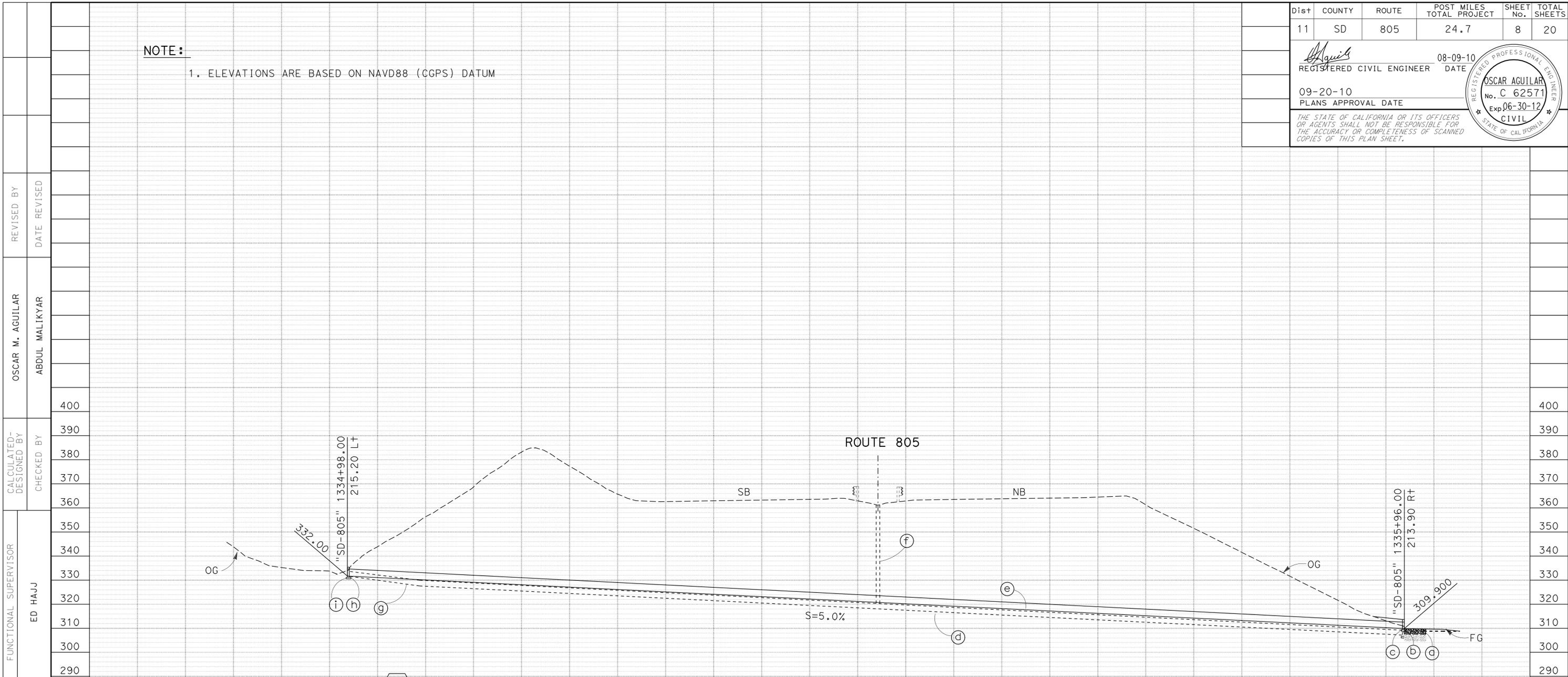
LAST REVISION: DATE PLOTTED => 01-OCT-2010
 08-16-10 TIME PLOTTED => 15:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	24.7	8	20
			08-09-10	DATE	
			09-20-10	PLANS APPROVAL DATE	
<small>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.</small>					



NOTE:

1. ELEVATIONS ARE BASED ON NAVD88 (CGPS) DATUM



DRAINAGE SYSTEM 1

- (a) RSP PAD (1/4 TON, METHOD B & BACKING No.1) SEE DRAINAGE DETAIL
- (b) STRAIGHT HEADWALL
- (c) REMOVE HEADWALL
- (d) ABANDON 24" x 410' CMP
- (e) 24" x 440' CSP & JACKED STEEL CASING 36" x 438' 1/2" THICKNESS (SEE DETAIL)
- (f) ABANDON 18" x 38' CMP RISER
- (g) ABANDON 24" x 30' RCP
- (h) STRAIGHT HEADWALL
- (i) REMOVE HEADWALL

STATION "SD-805" 1335+49.31

1

DRAINAGE PROFILE DP-1
SCALE: 1"=20'

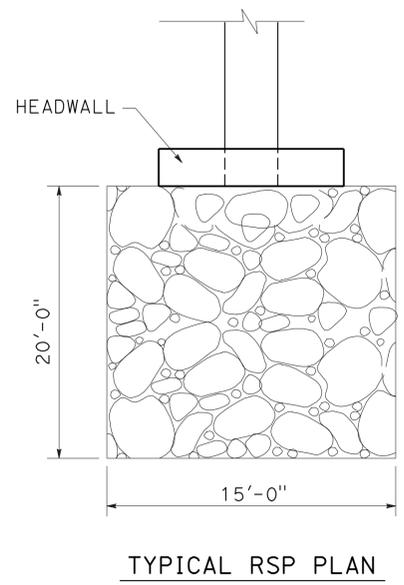


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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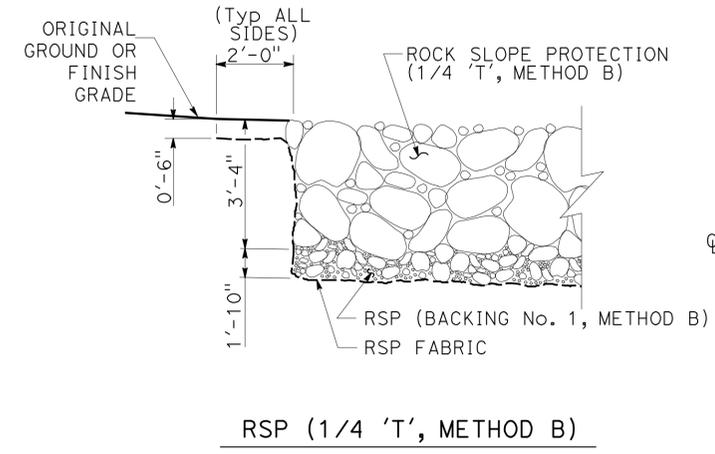
REGISTERED CIVIL ENGINEER DATE 08-09-10
 09-20-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 OSCAR AGUILAR
 No. C. 62571
 Exp. 06-30-12
 CIVIL
 STATE OF CALIFORNIA

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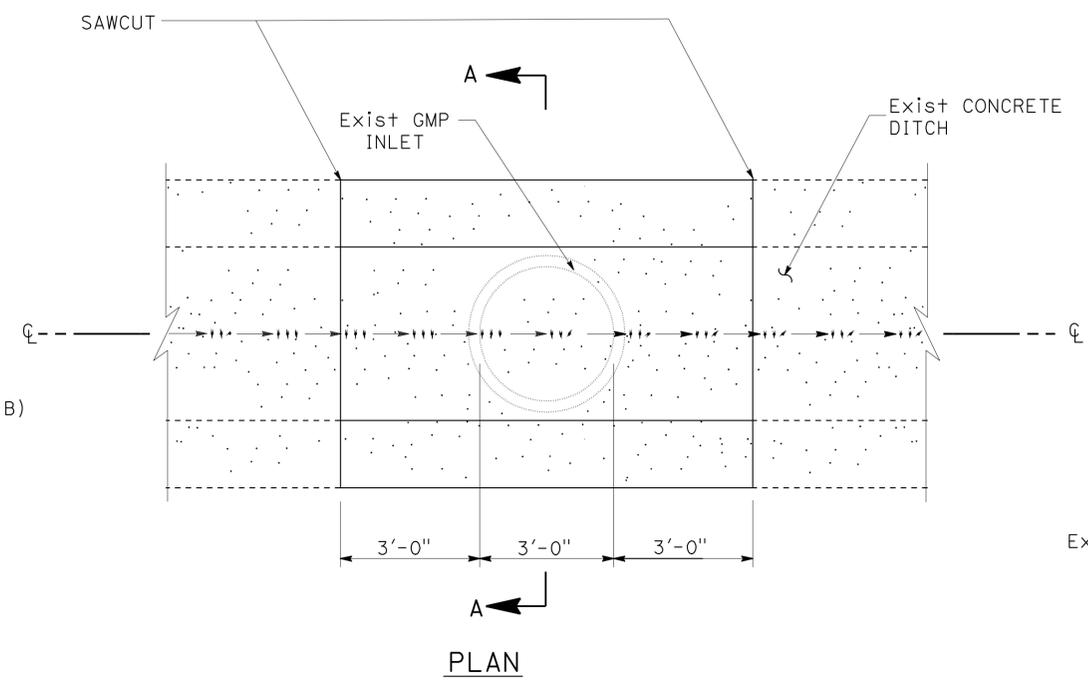


TYPICAL RSP PLAN

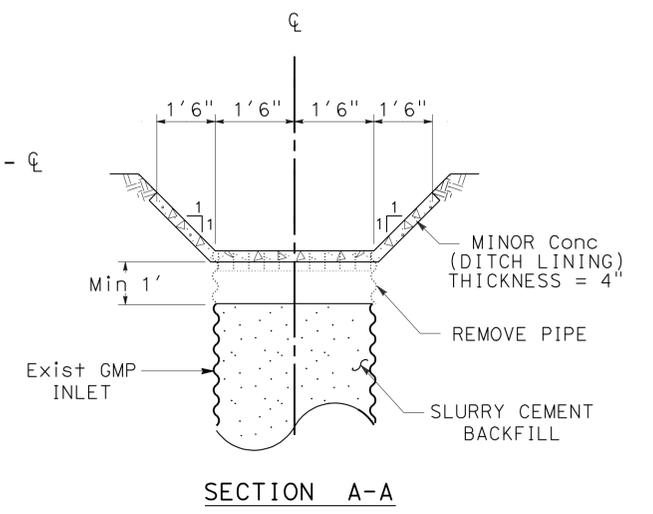


RSP (1/4 'T', METHOD B)

ROCK SLOPE PROTECTION

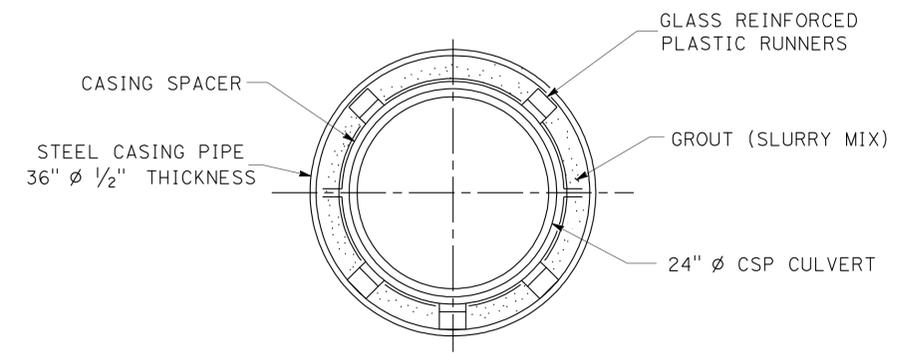


PLAN

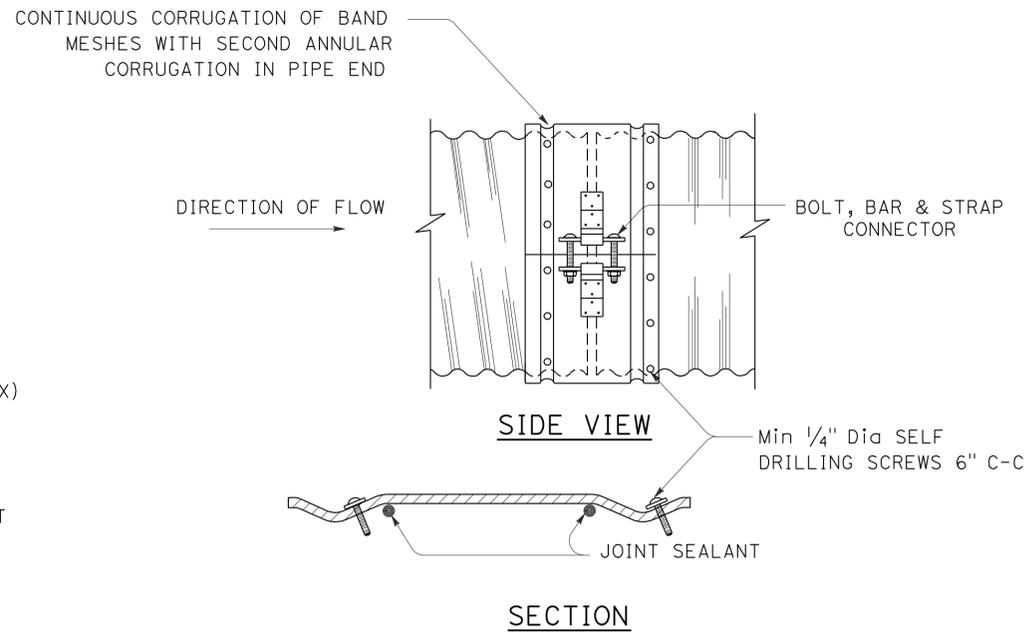


SECTION A-A

**MINOR Conc (DITCH LINING)
(ABANDON RISER)**



CASING DETAIL



**CORRUGATED METAL PIPE
HUGGER COUPLING BAND**

- NOTES:**
- CASING PIPE SPACERS SHALL BE LOCATED AROUND THE CARRIER PIPE TO PROVIDE PROPER SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
 - FASTENER SIZE AND SPACING AS SHOWN FOR SELF-DRILLING SCREWS IS SUGGESTED AND MUST BE CONFIRMED BY THE DESIGN ENGINEER PRIOR TO USE.
 - THE THICKNESS OF DITCH SLAB IS 4"
 - FOR DETAILS NOT SHOWN SEE STANDARD PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR ED HAJJ
 OSCAR M. AGUILAR
 ABDEL MALIKYAR
 REVISOR BY DATE
 REVISOR BY DATE
 CALCULATED/DESIGNED BY
 CHECKED BY
 USERNAME => s127400
 DGN FILE => 11000003521c001.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 2761
 PROJECT NUMBER & PHASE
 11000003521

**DRAINAGE DETAILS
DD-1**

NO SCALE

LAST REVISION DATE PLOTTED => 05-OCT-2010
 08-16-10 TIME PLOTTED => 10:19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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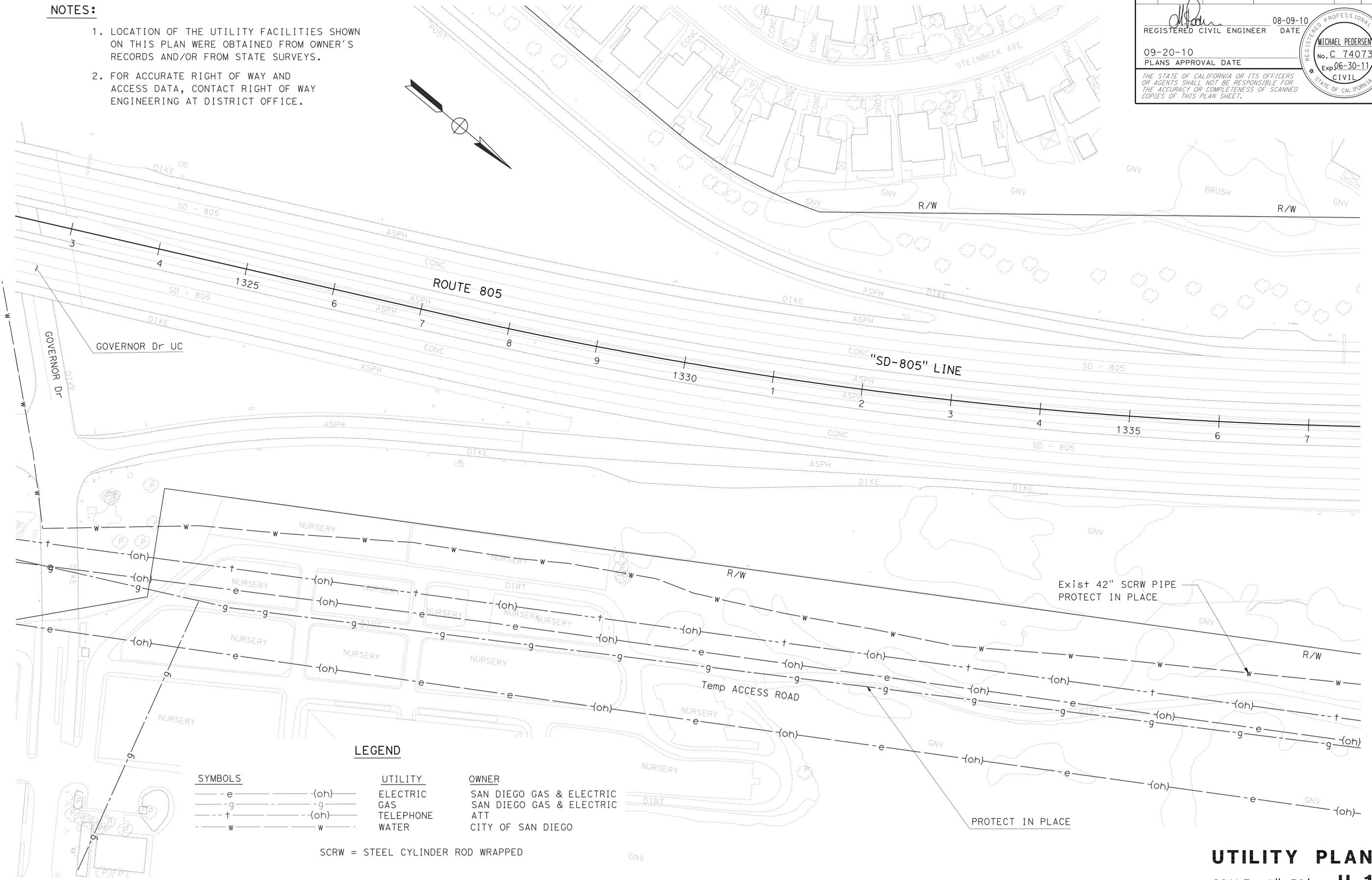
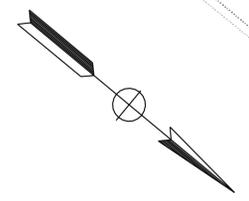
08-09-10
 REGISTERED CIVIL ENGINEER DATE
 09-20-10
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 MICHAEL PEDERSEN
 No. C. 74073
 Exp. 06-30-11
 CIVIL
 STATE OF CALIFORNIA

NOTES:

1. LOCATION OF THE UTILITY FACILITIES SHOWN ON THIS PLAN WERE OBTAINED FROM OWNER'S RECORDS AND/OR FROM STATE SURVEYS.
2. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



LEGEND

SYMBOLS		UTILITY	OWNER
— e —	(oh)	ELECTRIC	SAN DIEGO GAS & ELECTRIC
— g —	(oh)	GAS	SAN DIEGO GAS & ELECTRIC
— t —	(oh)	TELEPHONE	ATT
— w —	(oh)	WATER	CITY OF SAN DIEGO

SCRW = STEEL CYLINDER ROD WRAPPED

UTILITY PLAN
SCALE: 1"=50' **U-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT
 FUNCTIONAL SUPERVISOR ED HAJU
 CALCULATED/DESIGNED BY OSCAR M. AGUILAR
 CHECKED BY MICHAEL PEDERSEN
 REVISED BY DATE REVISED

THIS PLAN FOR UTILITY INFORMATION ONLY

LAST REVISION DATE PLOTTED => 01-OCT-2010
 08-16-10 TIME PLOTTED => 15:32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR
 ED HAJU

CALCULATED-DESIGNED BY
 OSCAR M. AGUILAR

CHECKED BY
 ABDUL MALIKYAR

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	12	20


 REGISTERED CIVIL ENGINEER DATE 08-09-10
 09-20-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 OSCAR AGUILAR
 No. C 62571
 Exp. 06-30-10
 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.

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET	TEMPORARY FENCE (TYPE ESA)	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY COVER	TEMPORARY LARGE SEDIMENT BARRIER
WPC-1	LF 1310	EA 1	SQYD 250	LF 50

FENCE SUMMARY

SHEET	REMOVE CHAIN LINK FENCE	CHAIN LINK FENCE (TYPE CL-8)
L-1	LF 60	LF 60

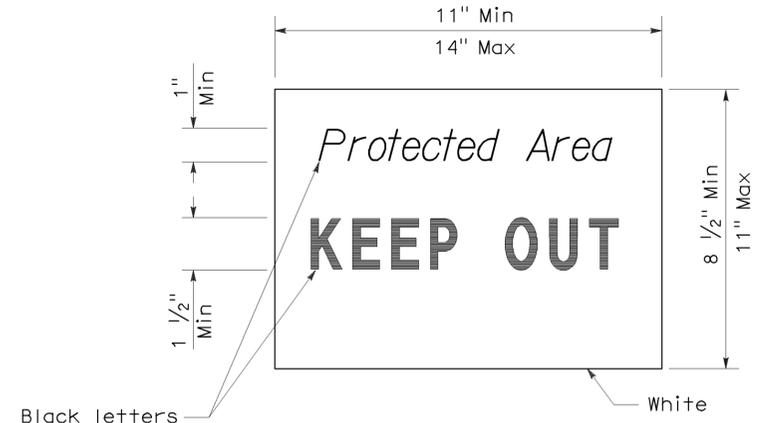
REMOVE MUD, SAND & DEBRIS

SHEET	REMOVE MUD, SAND AND DEBRIS
L-1	CY 50

SUMMARY OF QUANTITIES Q-1

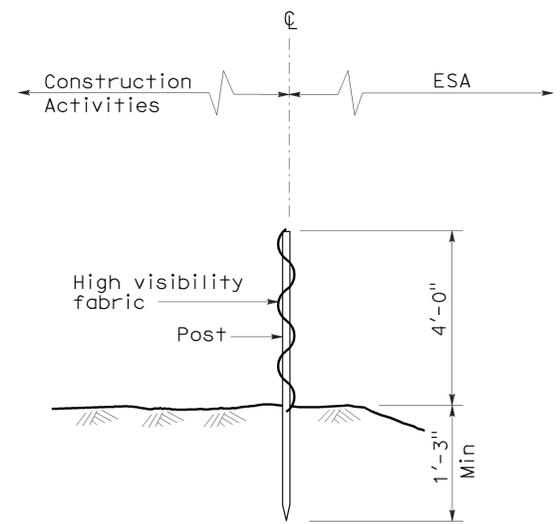
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	13	20

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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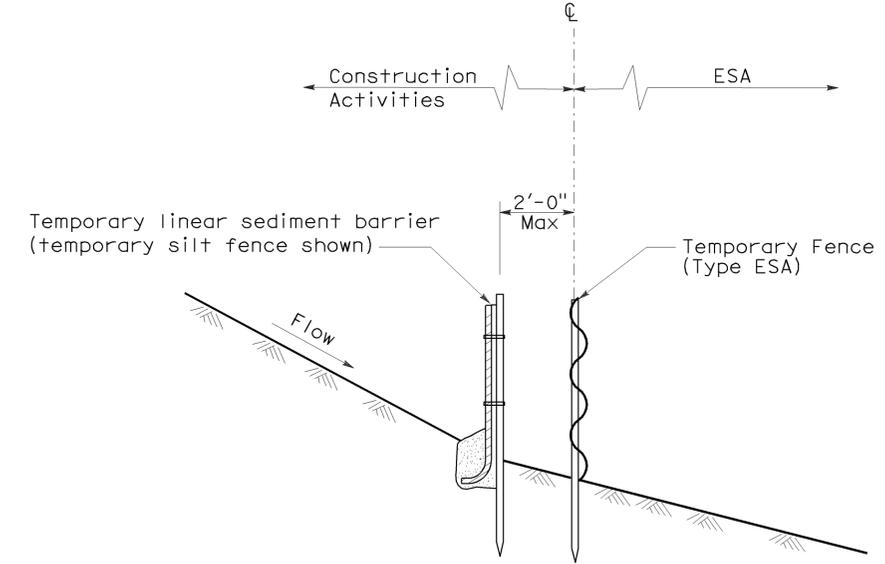


SIGN DETAIL

NOTE:
 1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

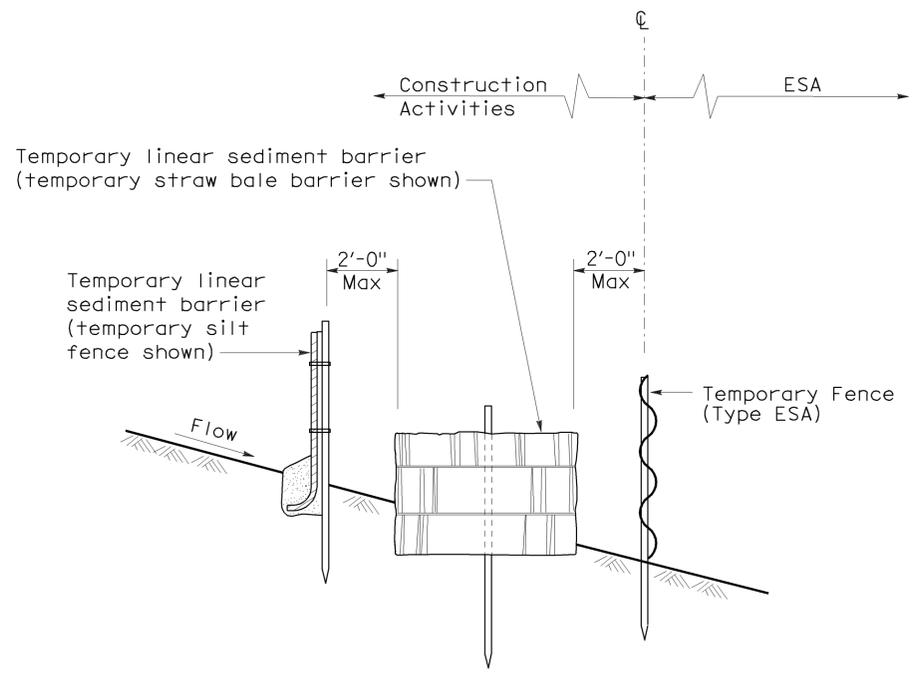


SECTION TEMPORARY FENCE (TYPE ESA)



SECTION PLACEMENT DETAIL FOR TEMPORARY LINEAR SEDIMENT BARRIER USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)



SECTION PLACEMENT DETAIL FOR TEMPORARY SILT FENCE AND TEMPORARY STRAW BALE BARRIER USED WITH TEMPORARY FENCE (TYPE ESA)

(See Note 1)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
[TEMPORARY FENCE (TYPE ESA)]
 NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T65

2006 NEW STANDARD PLAN NSP T65

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	14	20

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE

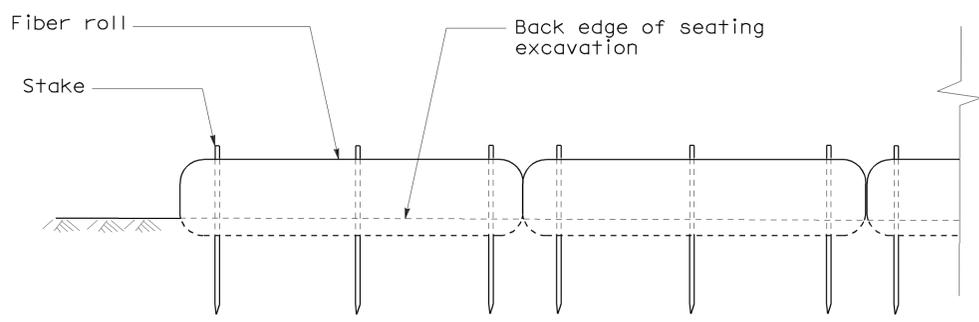
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 Signature
 11-30-10
 Renewal Date
 5-22-09
 Date

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.

To accompany plans dated 09-20-10

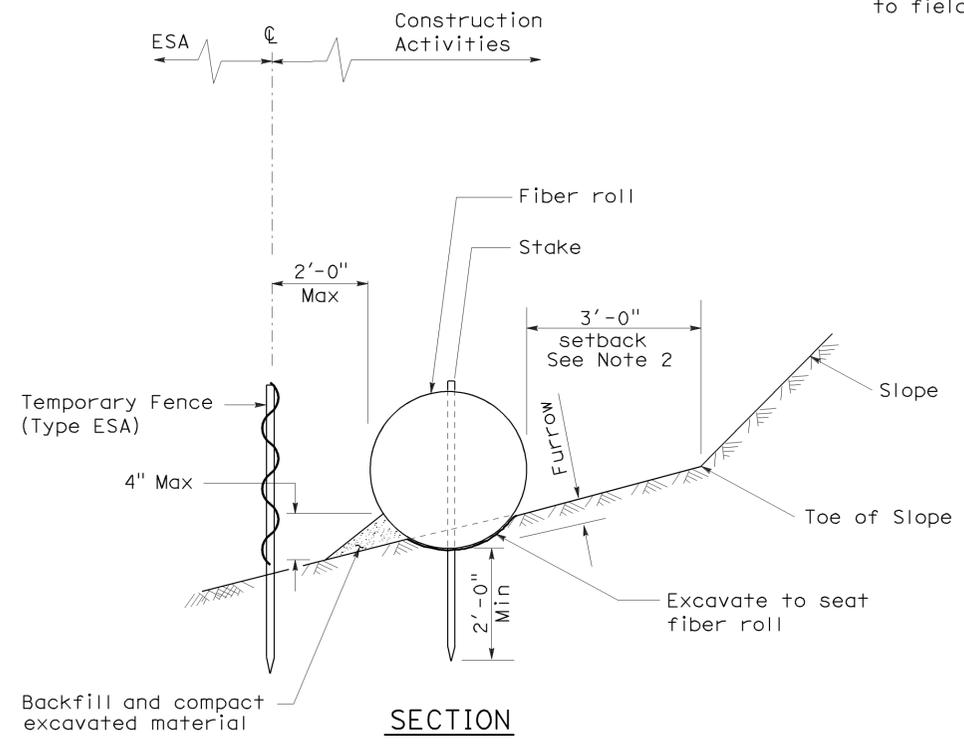
NOTES:

1. Temporary fence (Type ESA) shown for reference purposes only.
2. Setback dimension may vary according to field conditions or as designated on plans



FRONT ELEVATION

TEMPORARY LARGE SEDIMENT BARRIER



SECTION

PLACEMENT DETAIL
FOR TEMPORARY FENCE (TYPE ESA)
USED WITH TEMPORARY LARGE SEDIMENT BARRIER

(See Note 1)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

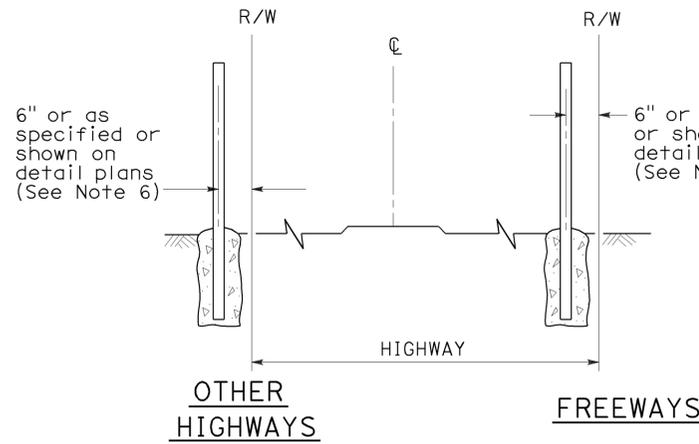
**TEMPORARY WATER POLLUTION
CONTROL DETAILS
(TEMPORARY LARGE SEDIMENT
BARRIER)**

NO SCALE

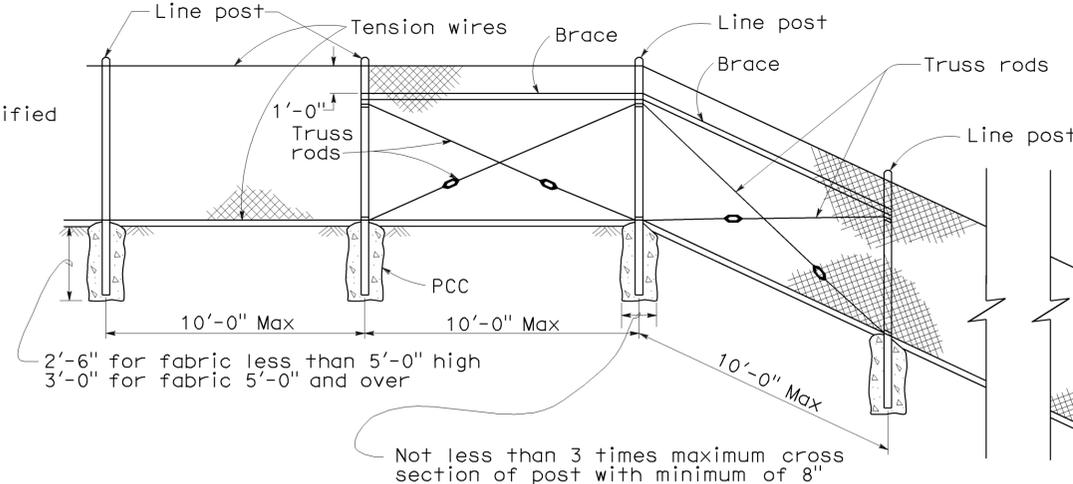
NSP T66 DATED JUNE 5, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T66

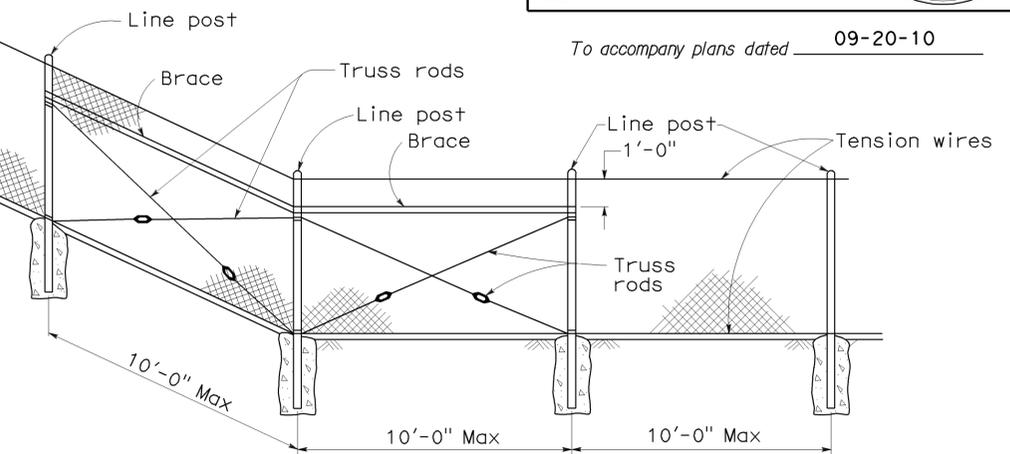
2006 NEW STANDARD PLAN NSP T66



FENCE LOCATION

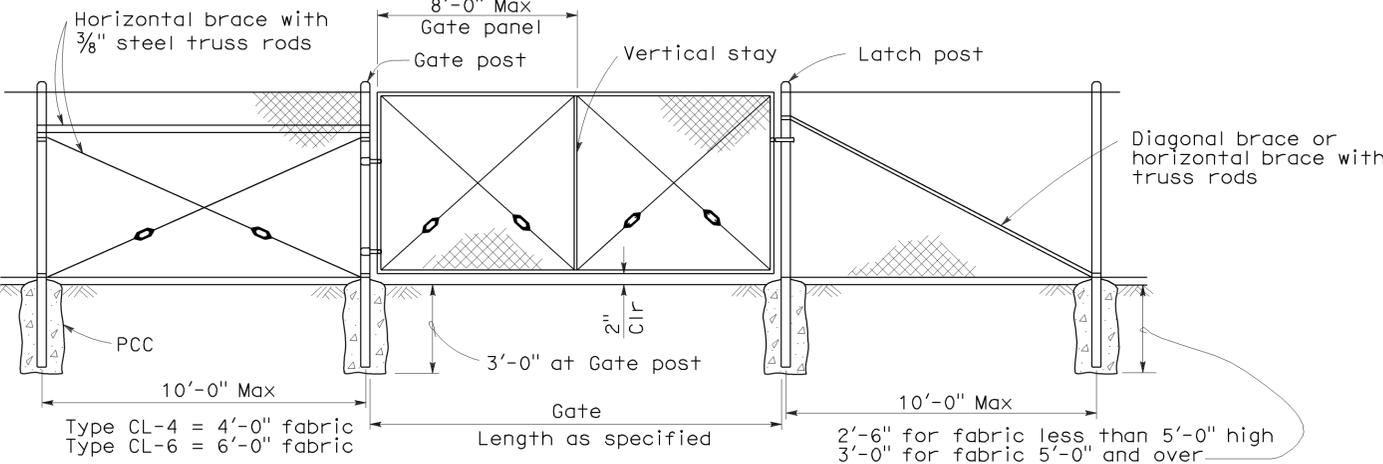
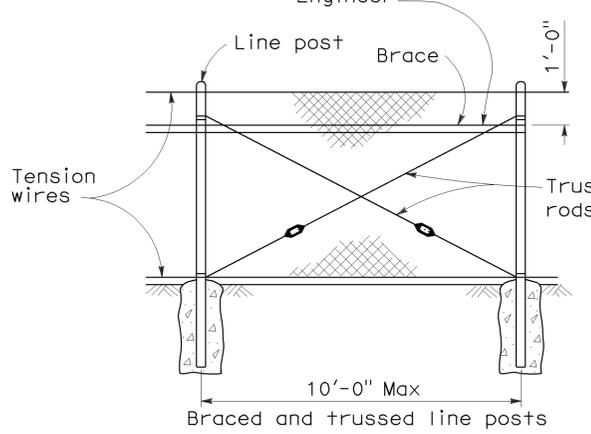


CHAIN LINK FENCE ON SHARP BREAK IN GRADE



To accompany plans dated 09-20-10

Brace to be removed after all other fence construction is completed unless otherwise directed by the Engineer



CHAIN LINK GATE INSTALLATION

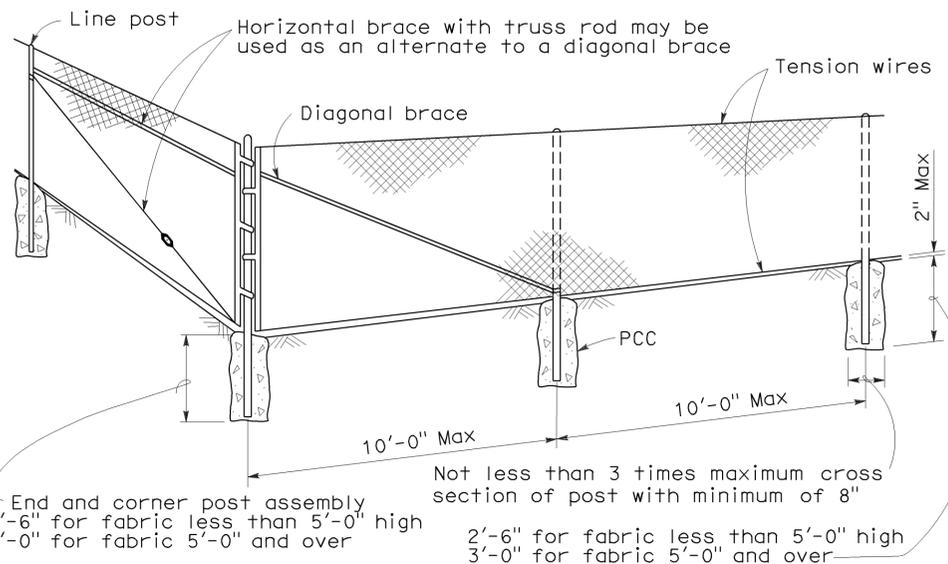
GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2 1/2"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
	Over 18'-0" to 24'-0" Max	6"	18.97 LB
Over 6'-0"	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" thru 18'-0"	6"	18.97 LB
	Over 18'-0" to 24'-0" Max	8"	28.55 LB

Above post dimensions and weights are minimums. Larger sizes may be used on approval of the Engineer.

NOTES:

- The below table shows examples of post and brace sections which may comply with the Specifications.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
- Options exercised shall be uniform on any one project.
- Dimensions shown are nominal.
- 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.

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS			END, LATCH & CORNER POSTS			BRACES			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	ROLL FORMED	
6' & less	1 1/2"	1 7/8" x 1 5/8"	1 7/8" x 1 5/8"	2"	3 1/2" x 3 1/2"	2" x 1 3/4"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"
Over 6'	2"	2 1/4" x 2"	2" x 1 3/4"	2 1/2"	3 1/2" x 3 1/2"	2 1/2" x 2 1/2"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"



CORNER POST

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE

NO SCALE

RSP A85 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN A85
DATED MAY 1, 2006 - PAGE 111 OF THE STANDARD PLANS BOOK DATED MAY 2006.

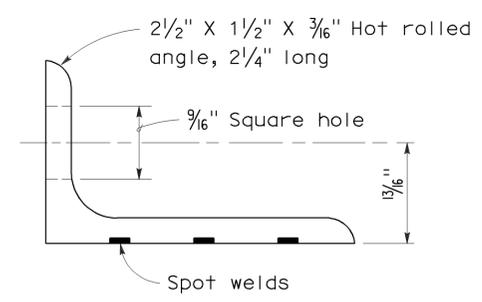
REVISED STANDARD PLAN RSP A85

2006 REVISED STANDARD PLAN RSP A85

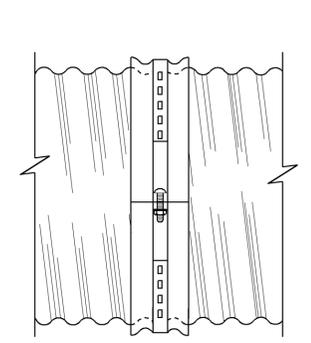
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	16	20

Raymond Don Tsztoo
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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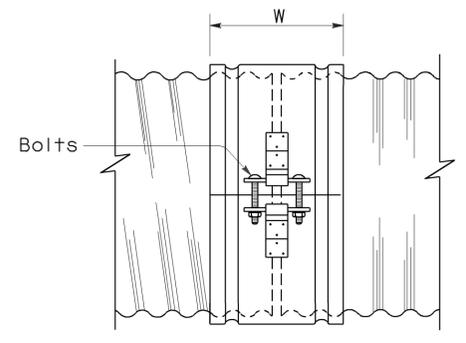
To accompany plans dated 09-20-10



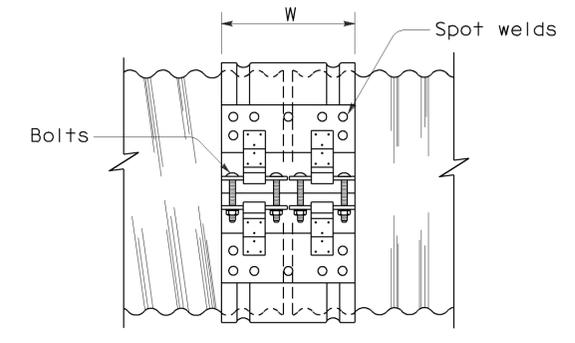
ANGLE



SIDE VIEW ANGLE



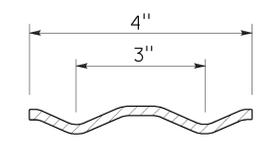
SIDE VIEW SINGLE BAR AND STRAP



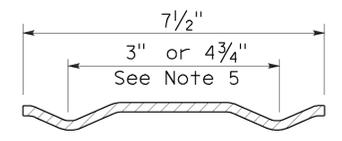
SIDE VIEW DOUBLE BAR AND STRAP

NOTES:

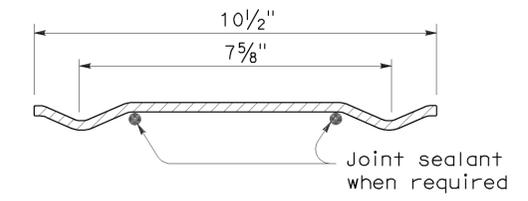
1. All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
2. Dimensions and thicknesses shown are minimum.
3. Spot welds shall develop minimum required strength of strap.
4. Fillet welds of equivalent strength may be substituted for spot welds or rivets.
5. Dimension depends upon whether end condition is lips up or lips down.



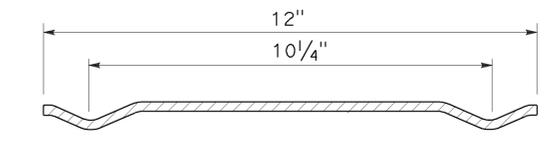
SECTION H-4 HUGGER BAND



SECTION H-7 HUGGER BAND



SECTION H-10 HUGGER BAND



SECTION H-12 HUGGER BAND

HUGGER COUPLING BANDS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CORRUGATED METAL PIPE
 COUPLING DETAILS No. 4
 HUGGER COUPLING BANDS**

NO SCALE

RSP D97D DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97D
 DATED MAY 1, 2006 - PAGE 186 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP D97D

2006 REVISED STANDARD PLAN RSP D97D

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	17	20

Raymond Don Tsztso
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Raymond Don Tsztso
REGISTERED PROFESSIONAL ENGINEER
No. C37332
Exp. 6-30-08
CIVIL
STATE OF CALIFORNIA

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ANNULAR AND HELICAL PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W OR A	PIPE WALL THICKNESS				BAR AND STRAP (CSP ONLY)			ANGLE							
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS	BOLTS Dia	BAR Dia	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND	
				CSP	CAP	CSP	CAP				CSP	CAP	CSP	CAP	CSP	CAP	CSP	
TWO PIECE INTEGRAL FLANGE	1 1/2' x 1/4"	6"	7"	0.064"-0.168"		0.052"												
	1 1/2' x 1/4"	8"-10"	7"	0.064"-0.168"	0.060"-0.164"	0.064"	0.060"											
ANNULAR	2 2/3" x 1/2"	THROUGH 24"	12"	0.064"-0.168"	0.060"-0.164"	0.064"	0.060"											
HUGGER	2 2/3" x 1/2" REROLLED END	THROUGH 24"	10 1/2"	0.064"-0.168"		0.064"		0.079"	1/2"	7/8"								

- NOTES: To accompany plans dated 09-20-10
- All ferrous metal coupling band connection hardware shall be galvanized or electro-plated in accordance with the Standard Specifications.
 - For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
 - Tension strap may be connected to band with either spot welds or fillet welds that develop minimum required strength of strap.
 - Use 1/4" gage line dimension on attached angle leg for rivets and spot welds.
 - Band thickness shall not be less than:
 - 3 standard thicknesses lighter than the thickness of the pipe for Corrugated Steel Pipe.
 - 2 standard thicknesses lighter than the thickness of the pipe and in no case lighter than 0.060" for Corrugated Aluminum Pipe.
 - Dimensions, thicknesses and strengths shown are minimum.
 - For pipe arches use same width band as for round pipe of equal periphery.
 - Fillet welds of equivalent strenght may be substituted for spot welds or rivets.
 - Spot welds shall develop minimum required strength of strap.
 - Pipe with rerolled ends having at least two 2 2/3" x 1/2" annular corrugations at each end with or without an upturned flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 2 2/3" x 1/2" corrugations.
 - For downdrain applications, two piece integral flange couplers shall have factory applied sleeve type rubber gaskets with a minimum length of 7" measured along the length of the pipe.

SPIRAL RIB PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W	PIPE WALL THICKNESS				BAR AND STRAP (SSRP ONLY)			ANGLE							
				PIPE WALL THICKNESS		BAND THICKNESS		STRAP THICKNESS	BOLTS Dia	BAR Dia	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND	
				SSRP	ASRP	SSRP	ASRP				SSRP	ASRP	SSRP	ASRP	SSRP	ASRP	SSRP	
ANNULAR	2 2/3" x 1/2" * REROLLED END	24"	12"	0.064"-0.168"	0.060"-0.164"	0.064"	0.060"											
HUGGER	2 2/3" x 1/2" * REROLLED END	24"	10 1/2"	0.064"-0.168"		0.064"		0.079"	1/2"	7/8"								

* See Note 12.

12. All profiles of Spiral Rib Pipe (3/4" x 3/4" ribs at 7 1/2" pitch and 3/4" x 1" ribs at 11 1/2" pitch in both steel and aluminum and 3/4" x 1" ribs at 8 1/2" pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 2 2/3" x 1/2" annual corrugations with a minimum of two full corrugations at each end.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**CORRUGATED METAL PIPE
COUPLING DETAILS No. 7
DOWNDRAIN**

NO SCALE

RSP D97G DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97G
DATED MAY 1, 2006 - PAGE 189 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP D97G

2006 REVISED STANDARD PLAN RSP D97G

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	18	20

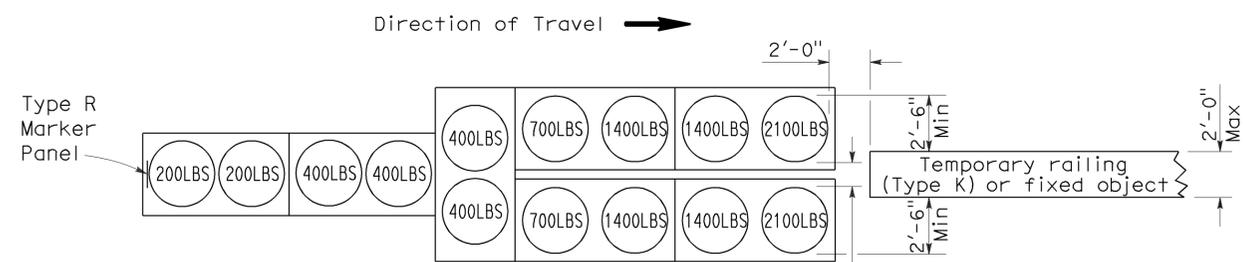
RANDALL D. HIATT
 REGISTERED CIVIL ENGINEER
 No. C50200
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

June 6, 2008
 PLANS APPROVAL DATE

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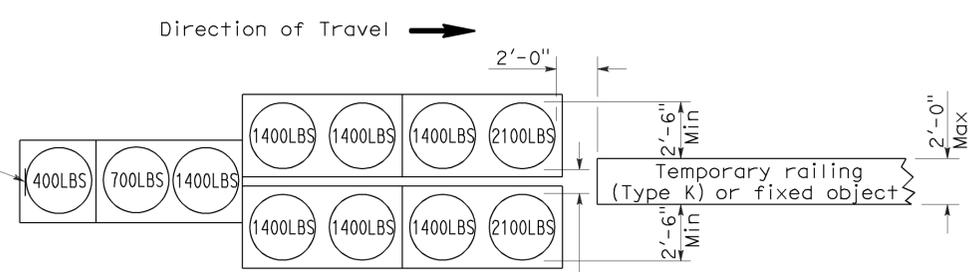
To accompany plans dated 09-20-10

2006 REVISED STANDARD PLAN RSP T1A



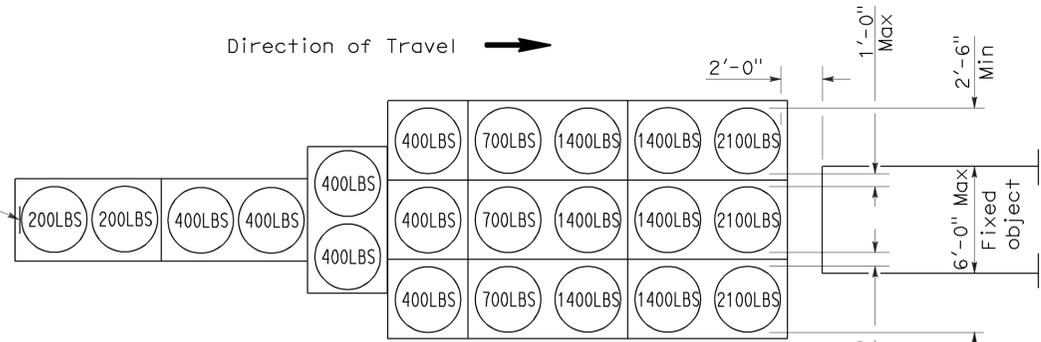
ARRAY 'TU14'

Approach speed 45 mph or more



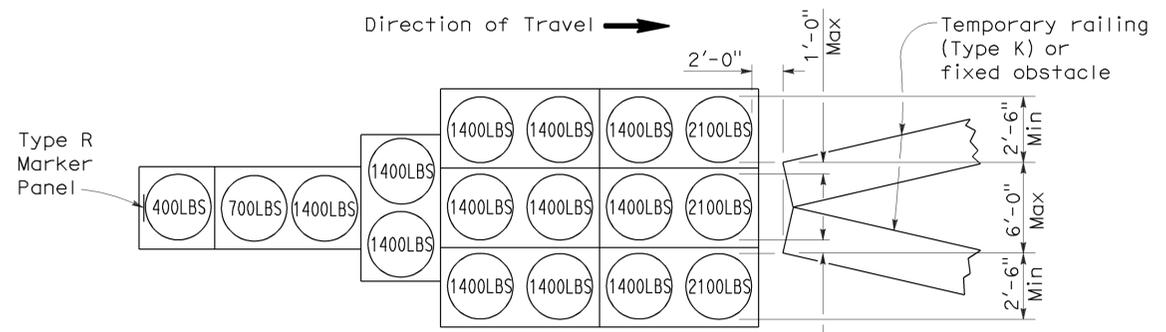
ARRAY 'TU11'

Approach speed less than 45 mph



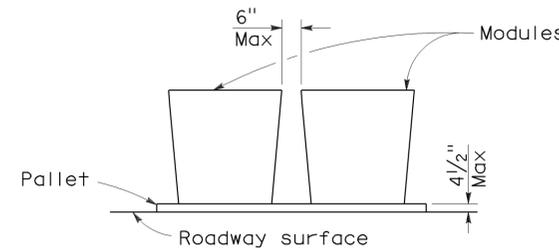
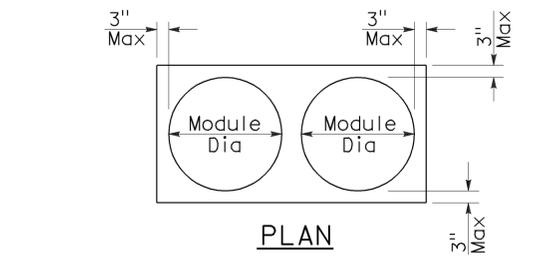
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	19	20

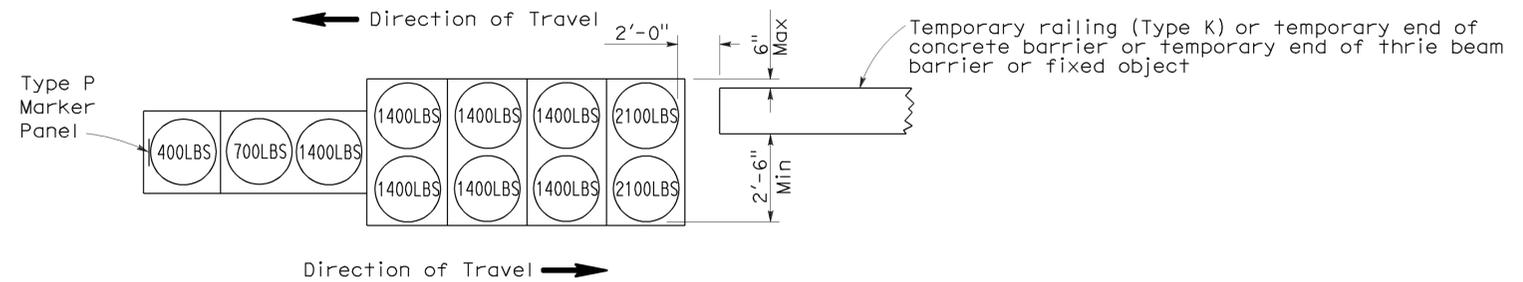
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

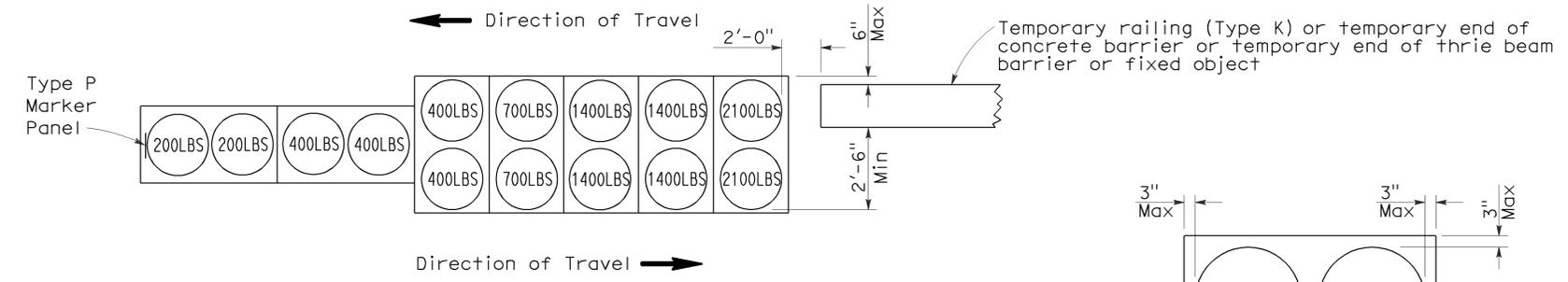
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Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

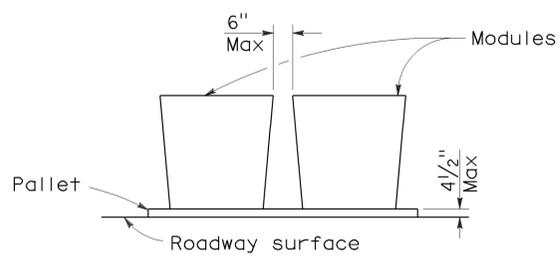
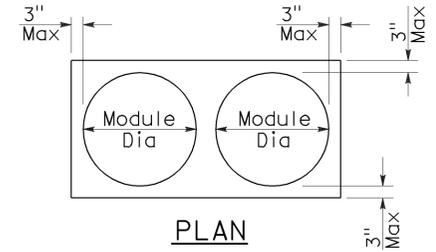
To accompany plans dated 09-20-10



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

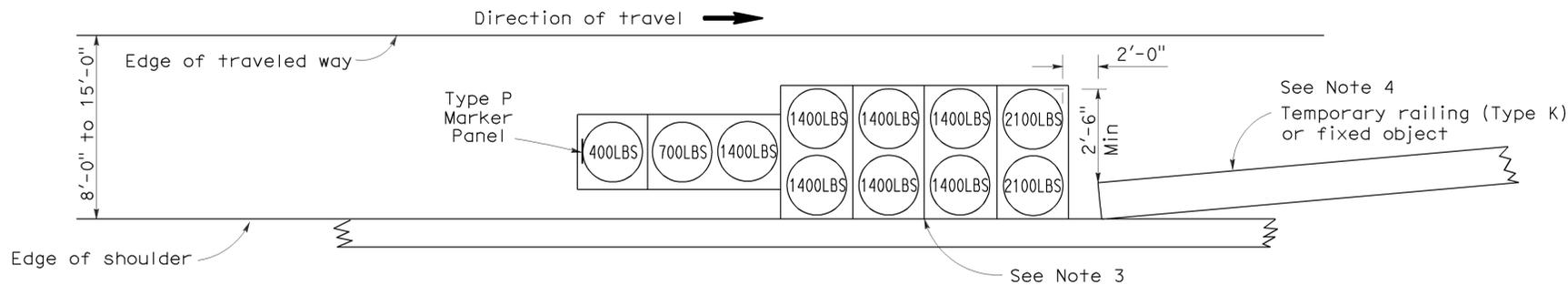
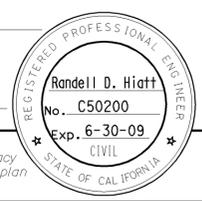
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	24.7	20	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

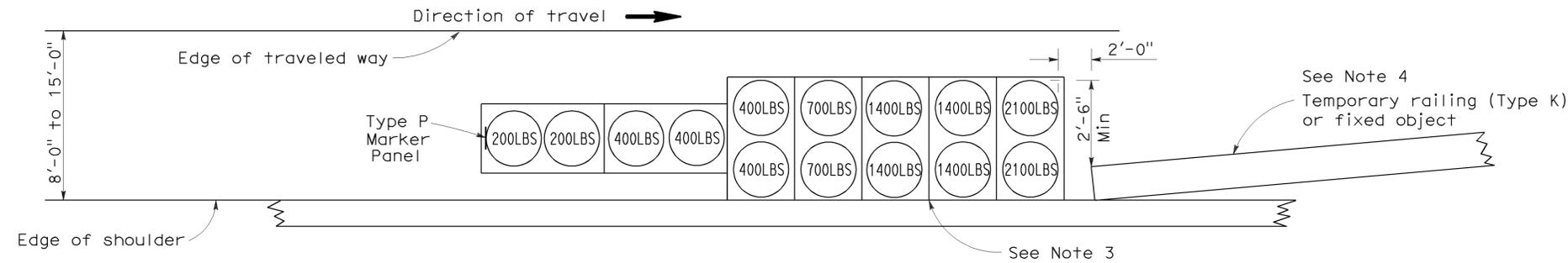
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 09-20-10



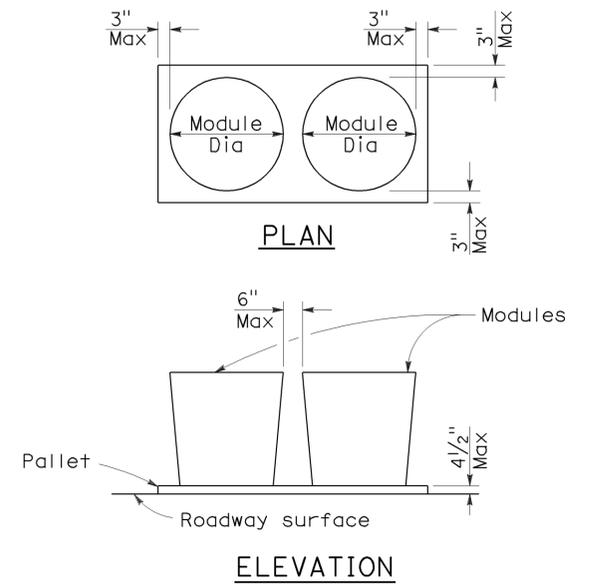
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2