

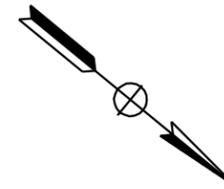
INDEX OF PLANS

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- 20 Landscape Details
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- 26-42 New And Revised Standard Plans

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR CONSTRUCTION ON  
 STATE HIGHWAY**  
**IN RIVERSIDE COUNTY**  
**IN CORONA FROM .4 MILE SOUTH OF  
 MAGNOLIA AVENUE OVERCROSSING TO TEMESCAL WASH**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

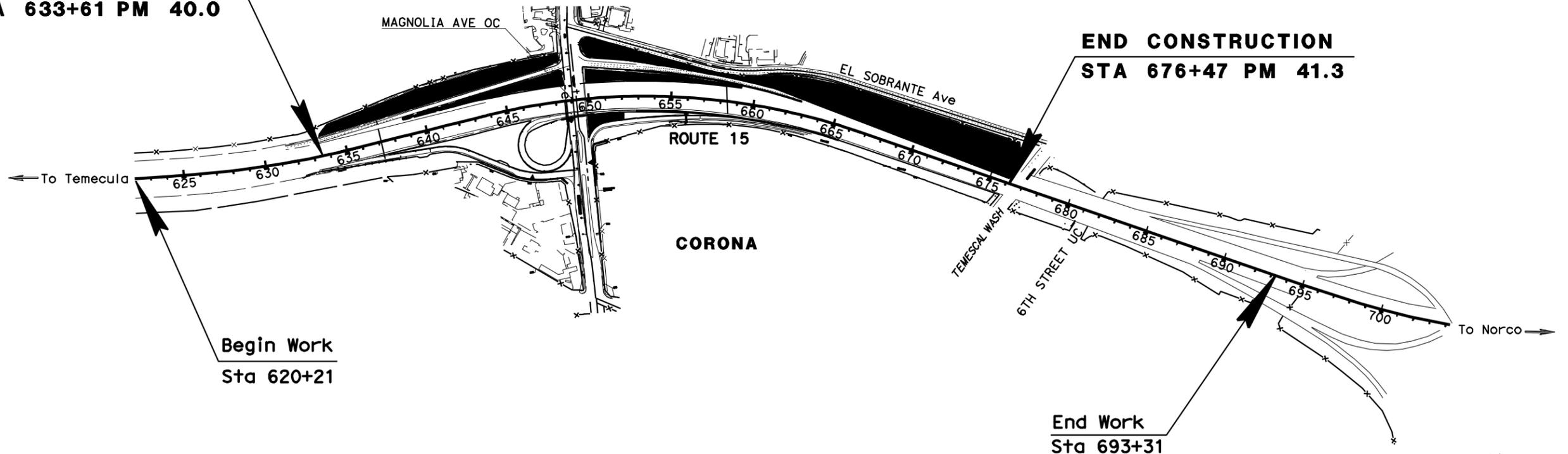


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	1	42

LOCATION MAP

**BEGIN CONSTRUCTION**  
**STA 633+61 PM 40.0**

**END CONSTRUCTION**  
**STA 676+47 PM 41.3**



**Begin Work**  
**Sta 620+21**

**End Work**  
**Sta 693+31**

NO SCALE

PROJECT MANAGER  
**MUSTAPHA IAALI**  
 SENIOR LANDSCAPE ARCHITECT  
**MATTHEW P. HALL**

LICENSED LANDSCAPE ARCHITECT

March 07, 2011  
 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.



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

CONTRACT No.	<b>08-0C8204</b>
PROJECT ID	<b>080000063</b>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	2	42

  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED

### TEMPORARY CONSTRUCTION BMPS

TEMPORARY CONSTRUCTION SITE BMPS	UNITS	QUANTITIES	BEGIN STATION	END STATION
TEMPORARY FIBER ROLL	LF	500	634+50	675+50
TEMPORARY DRAIN INLET PROTECTION	EA	2	643+00	649+00
TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMPSUM	676+00	676+00

## TEMPORARY WATER POLLUTION CONTROL QUANTITIES

NO SCALE **WPCQ-1**

LAST REVISION     
 DATE PLOTTED => 30-MAR-2011     
 02-28-11     
 TIME PLOTTED => 11:41

**ABBREVIATIONS**

AMEND — AMENDMENT	Max — MAXIMUM
B & B — BALLED AND BURLAPPED	Min — MINIMUM
Dia — DIAMETER	NCN — NO COMMON NAME
EA — EACH	No. — NUMBER
LB — POUND	PKT — PACKET
Oz — OUNCE	PLT ESTB — PLANT ESTABLISHMENT
Ft — FOOT/FEET	Pvmt — PAVEMENT
SQFT — SQUARE FEET	R/W — RIGHT OF WAY
SQYD — SQUARE YARD	SF — STATE FURNISHED
CF — CUBIC FEET	TRVD — TRAVELED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	3	42

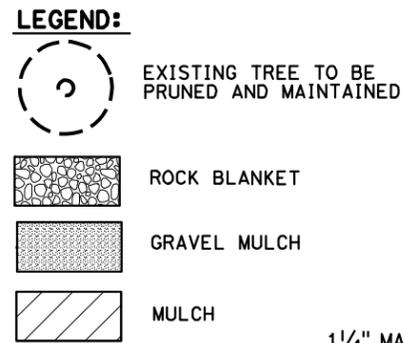
  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE  
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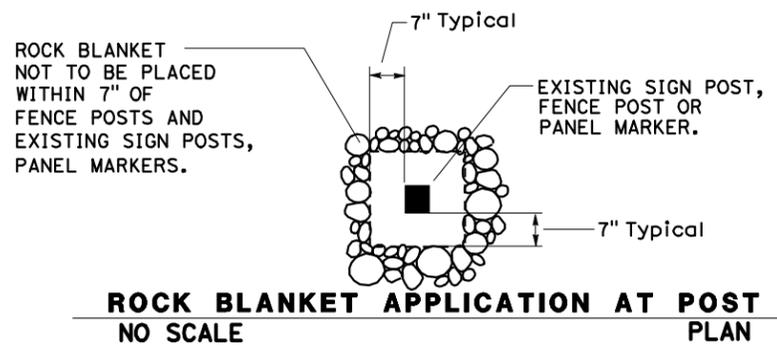
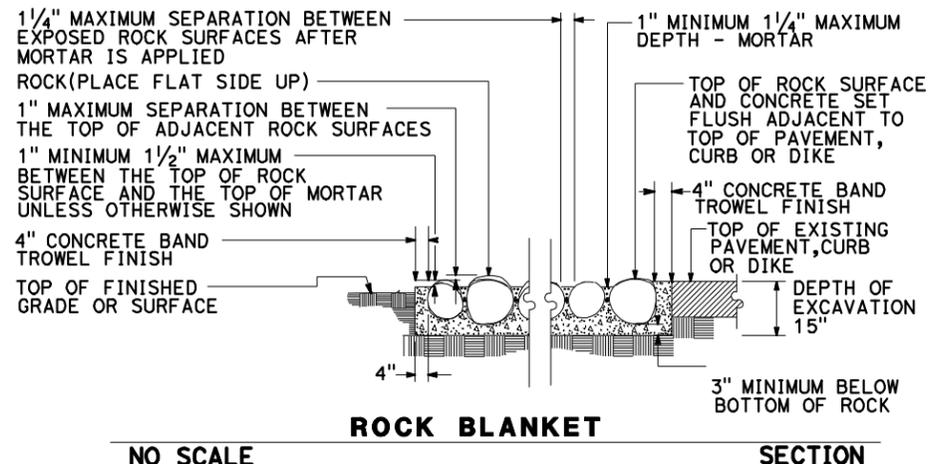
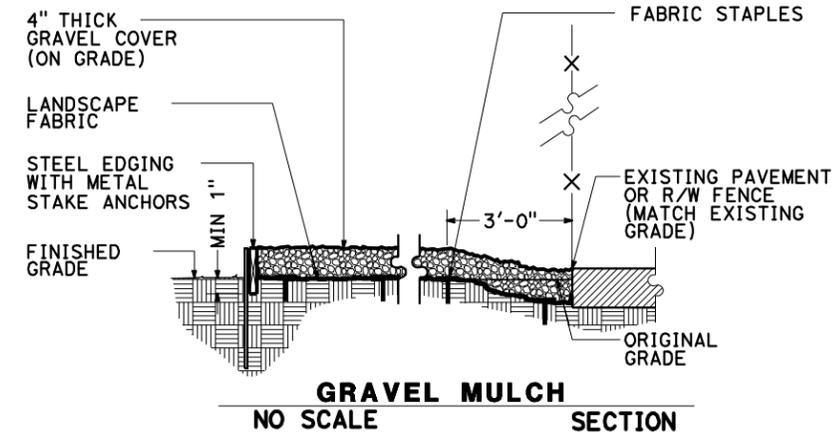
**PLANT LIST AND PLANTING SPECIFICATIONS**

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	AMMONIUM SULFATE ①	POTASSIUM SULFATE ①	SOIL AMEND ①	COMMERCIAL FERTILIZER ①		BASIN MULCH	STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH					PLANTING	PLT ESTB			MINIMUM DISTANCE (Ft) FROM							
																	TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH		
<b>A</b>	1	⊙	<u>ACACIA REDOLENS</u> 'DESERT CARPET'	DESERT CARPET ACACIA	NO. 1	305	⑩	⑪	II	1 OZ	1 OZ	1 CF	1/4lb	1/4lb ⑨	1 CF	--	--	6	6	6	10	15	10	SHRUB ④ ⑬
<b>B</b>	2	⊙	<u>AGAVE ATTENUATA</u>	FOXTAIL AGAVE	NO. 5	308	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/4lb	1/4lb ⑨	2 CF	--	--	6	6	6	10	15	6	SHRUB ④
	3	⊕	<u>BOUGAINVILLEA BUTTIANA</u> 'ORANGE KING'	ORANGE KING BOUGAINVILLEA	NO. 5	258	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/4lb	1/4lb ⑨	2 CF	--	--	10	6	6	10	15	8	SHRUB ④
<b>U</b>	4	⊙	<u>CEDRUS DEODARA</u>	DEODAR CEDAR	NO.15	67	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/2LB	1/2LB ⑨	2 CF	X	30	--	30	30	30	32	25	TREE ④
	5	⊙	<u>KOELREUTERIA BIPINNATA</u>	CHINESE FLAME TREE	NO.15	54	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/2LB	1/2LB ⑨	2 CF	X	30	--	10	10	10	15	25	TREE ④
	6	⊙	<u>PLATANUS RACEMOSA</u>	CALIFORNIA SYCAMORE	NO.15	31	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/2LB	1/2LB ⑨	2 CF	X	30	--	20	20	10	15	25	TREE ④
	7	⊙	<u>LAGERSTROEMIA INDICA</u>	'CATAWBA' CRAPE MYRTLE	NO.15	21	⑩	⑪	II	1 OZ	1 OZ	2 CF	1/2LB	1/2LB ⑨	2 CF	--	--	10	6	6	6	12	6	DWARF MULTI-TRUNK ④

- APPLICABLE WHEN CIRCLED:**
- QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES.
  - SUFFICIENT TO RECEIVE ROOT BALL.
  - DOES NOT APPLY TO MULCH AREAS.
  - AS SHOWN ON PLANS.
  - UNLESS OTHERWISE SHOWN ON PLANS.
  - SEE DETAIL.
  - SEE SPECIAL PROVISIONS.
  - SEE STANDARD PLANS AND SPECIFICATIONS.
  - PER APPLICATION.
  - PLANTING HOLE DIAMETER IS 2X ROOT BALL DIAMETER.
  - PLANTING HOLE DEPTH IS SAME AS ROOT BALL DEPTH.
  - Min DISTANCE BETWEEN PLANTS
  - ACACIA REDOLENS 'DESERT CARPET' PLANTS MUST HAVE NURSERY TAGS ATTACHED ON EACH PLANT.



**NOTE:**  
UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

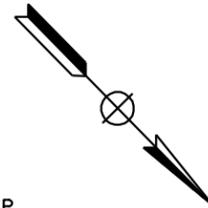


**PLANT LIST AND DETAILS**  
NO SCALE **PL-1**

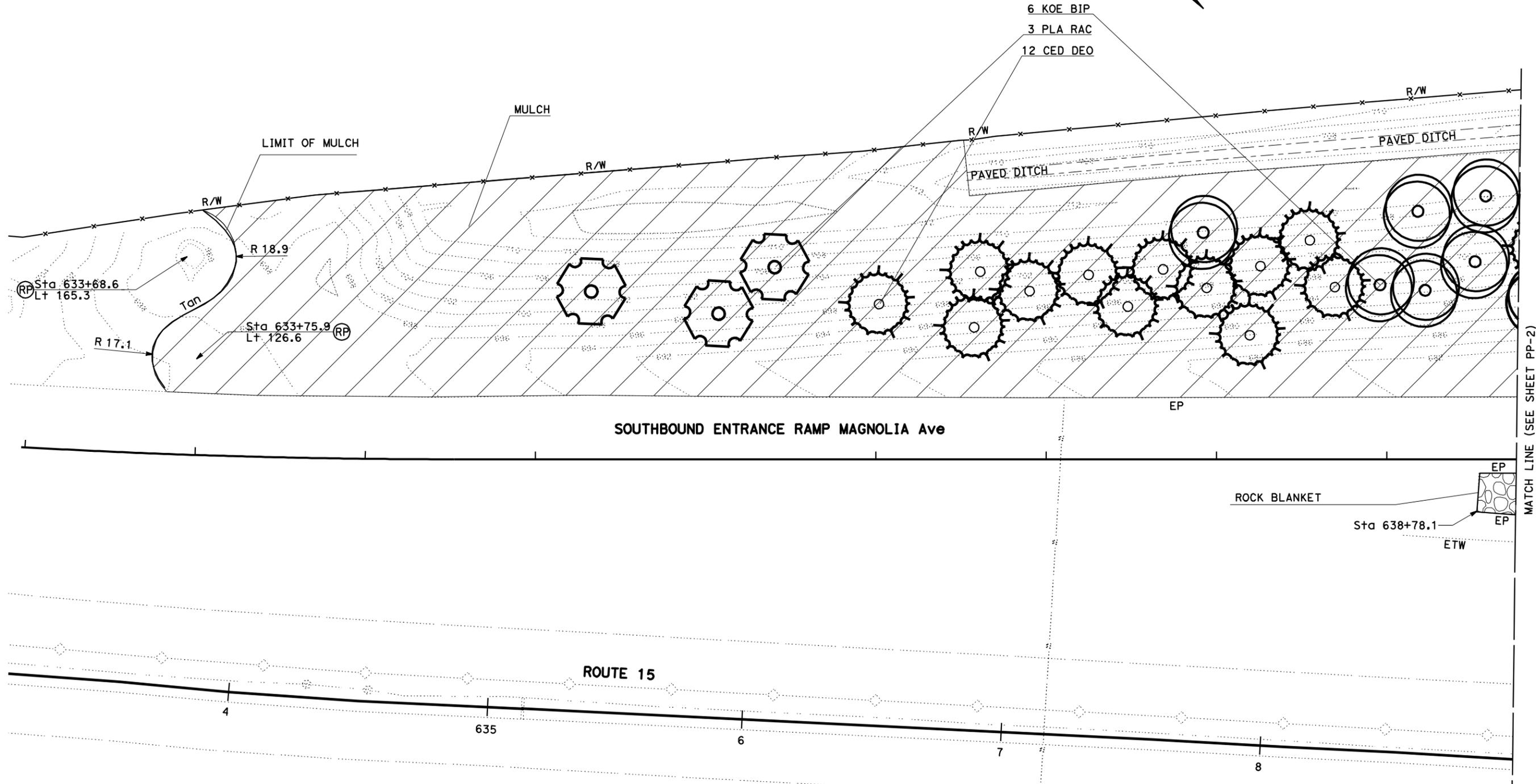
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	4	42

Matthew DeWitt  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE  
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**NOTE:**  
FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISOR BY  
 DATE REVISED



SOUTHBOUND ENTRANCE RAMP MAGNOLIA Ave

ROUTE 15

**PLANTING PLAN**

SCALE: 1" = 20' PP-1

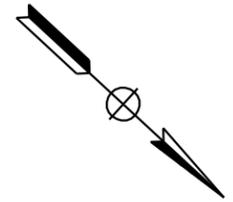
THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	5	42

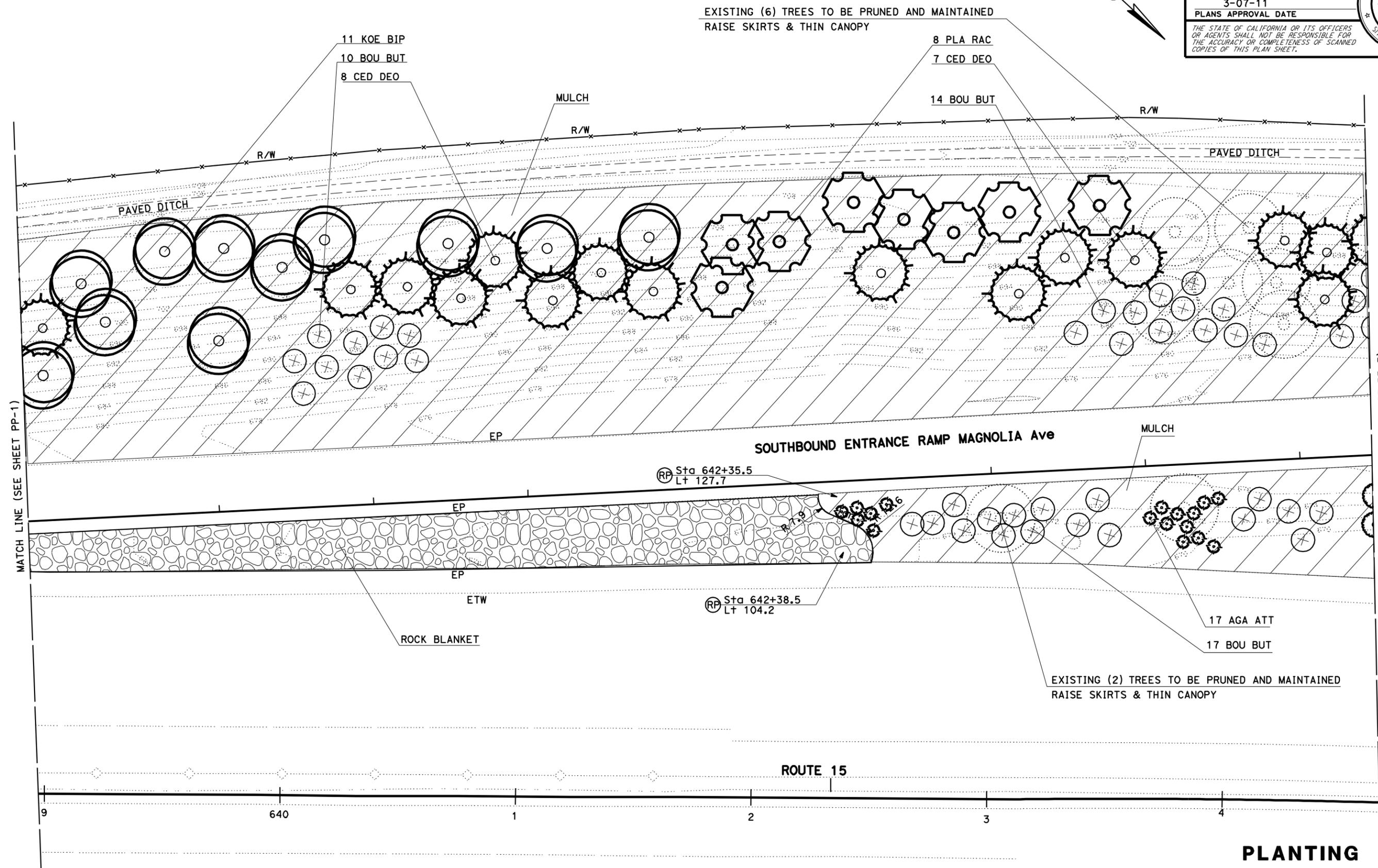
Matthew Deak  
 LICENSED LANDSCAPE ARCHITECT  
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 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED



THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**

SCALE: 1" = 20' PP-2



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

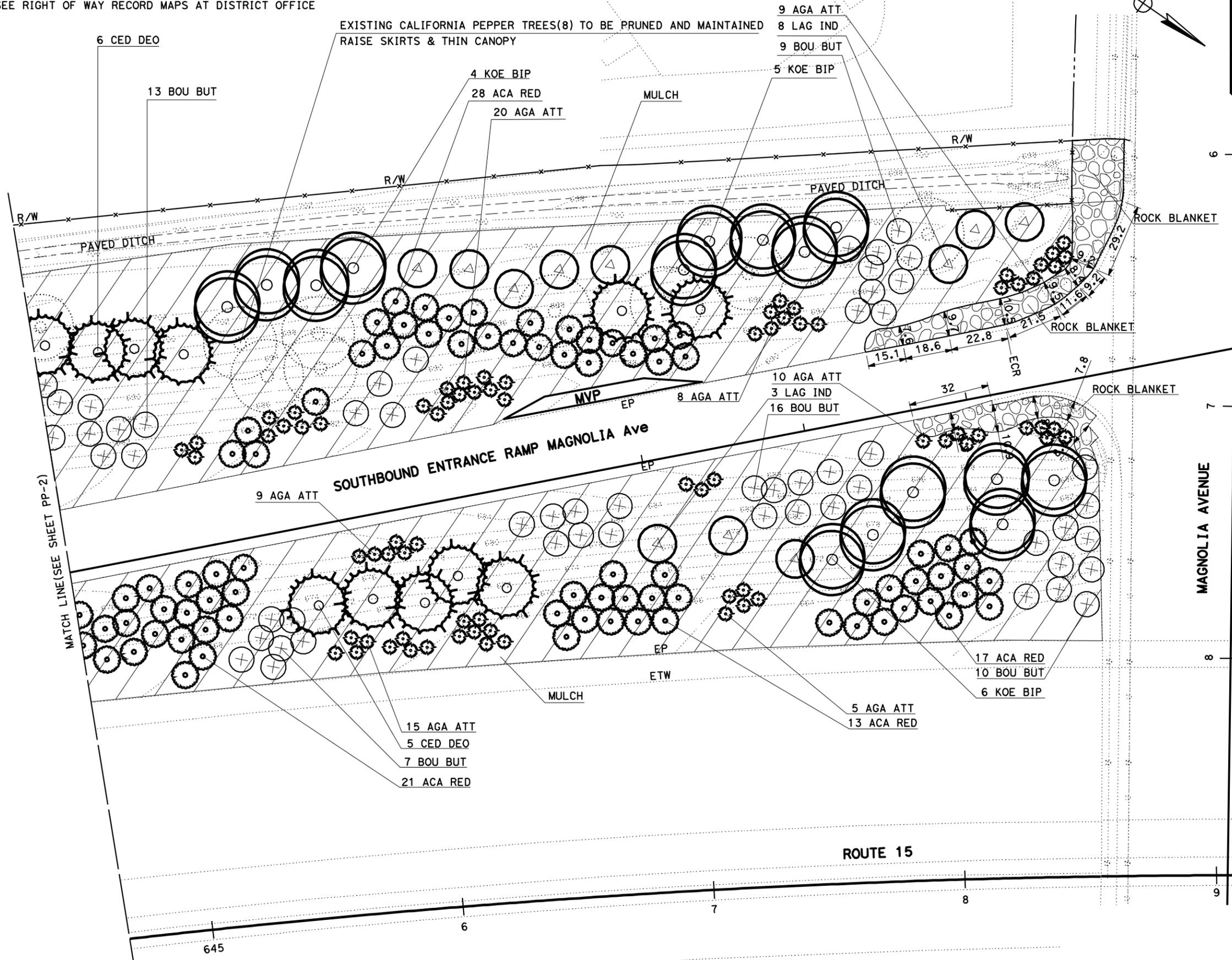
SENIOR LANDSCAPE ARCHITECT: BYRON STROUT  
 CALCULATED/DESIGNED BY: LORENA SALVADOR  
 CHECKED BY: MATTHEW HALL  
 REVISED BY: DATE REVISSED

**NOTE:**

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	6	42

*Matthew Hall*  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE  
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THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**  
 SCALE: 1" = 20' **PP-3**

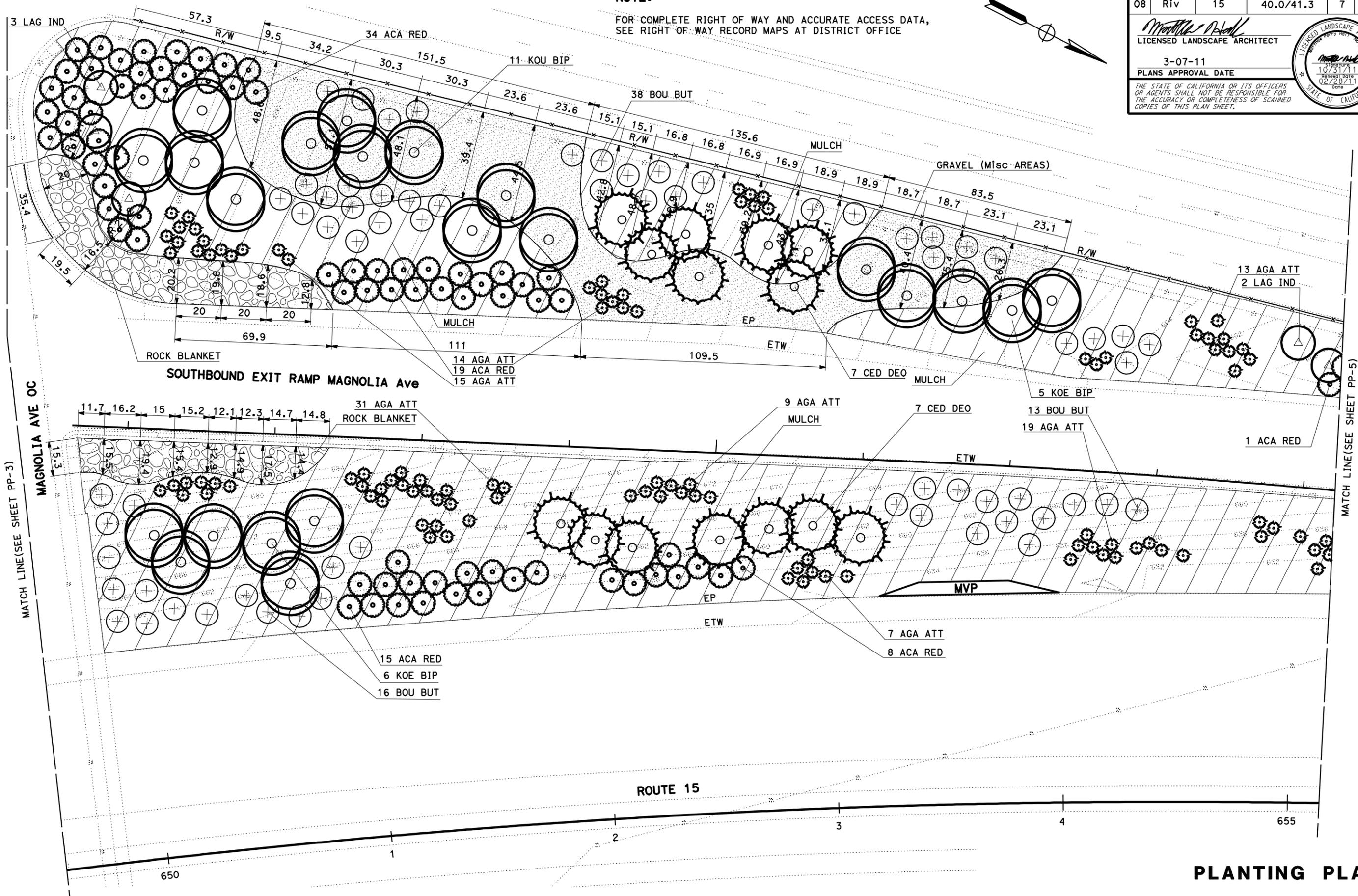
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Stantec** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: BYRON STROUT  
 CALCULATED/DESIGNED BY: LORENA SALVADOR  
 CHECKED BY: MATTHEW HALL  
 REVISED BY: DATE REVISION

**NOTE:**  
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	7	42

*Matthew Hall*  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE

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BORDER LAST REVISED 7/2/2010

USERNAME => aasencio  
 DGN FILE => 80c820+1004.dgn

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 2271

PROJECT NUMBER & PHASE

0800000631

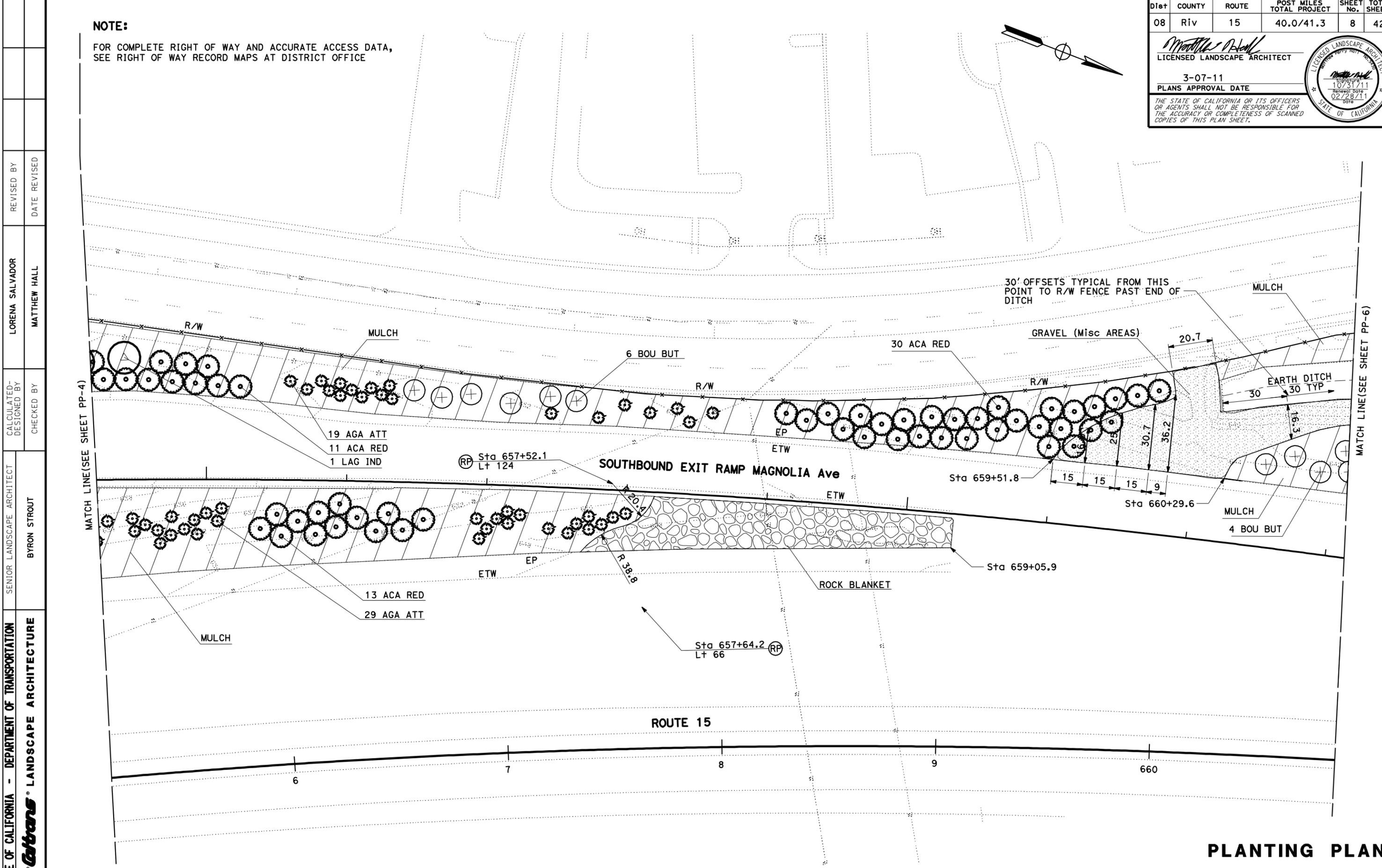
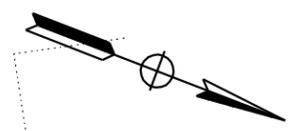
DATE PLOTTED => 30-MAR-2011  
 TIME PLOTTED => 11:42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	8	42

Matthew Hall  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED

THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**  
 SCALE: 1" = 20' **PP-5**

LAST REVISION DATE PLOTTED => 30-MAR-2011  
 02-28-11 TIME PLOTTED => 11:43

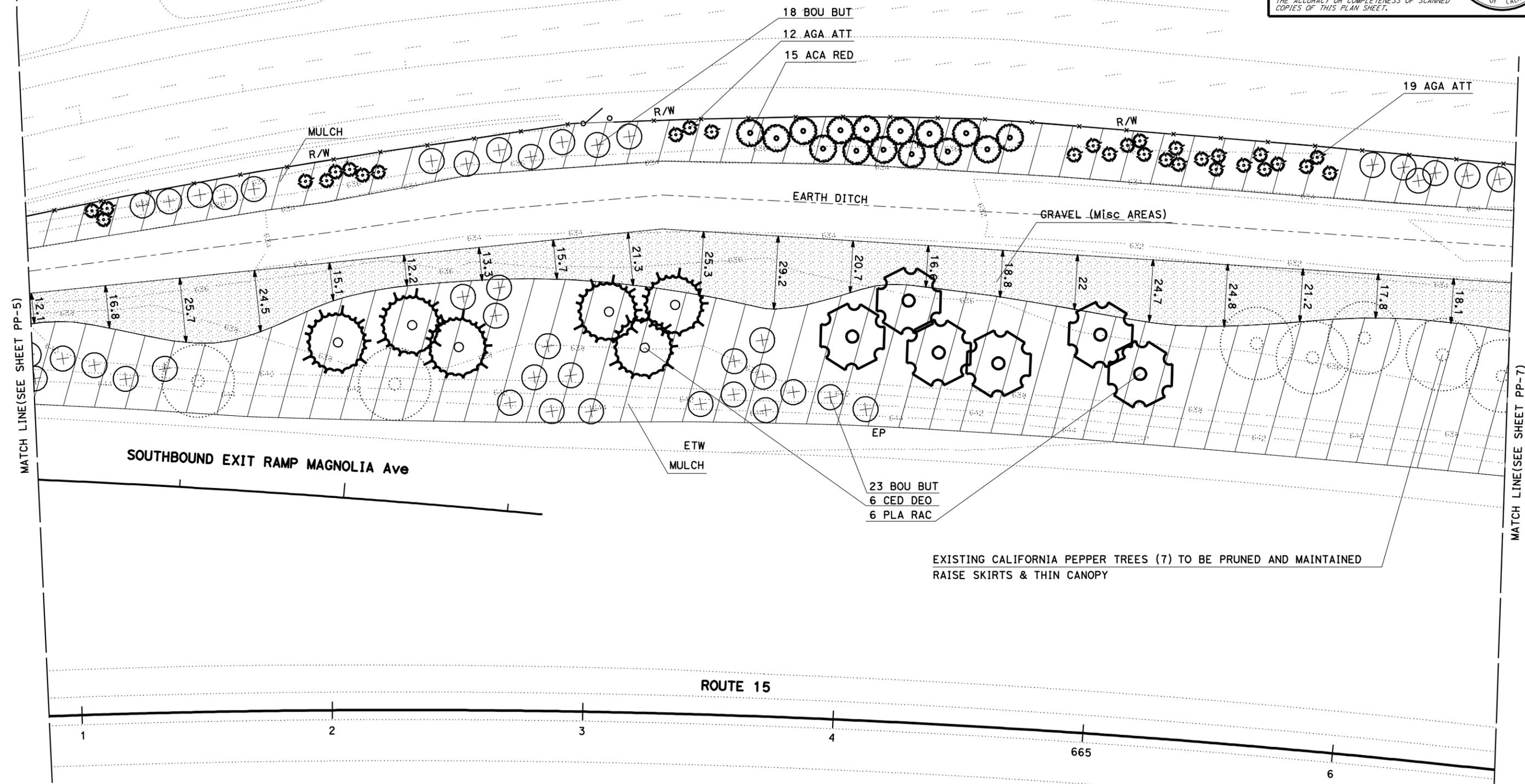
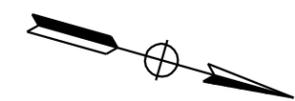
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	9	42

**Matthew Deak**  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE

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10/31/11  
 02/28/11  
 STATE OF CALIFORNIA

**NOTE:**  
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



- 23 BOU BUT
- 6 CED DEO
- 6 PLA RAC

EXISTING CALIFORNIA PEPPER TREES (7) TO BE PRUNED AND MAINTAINED  
 RAISE SKIRTS & THIN CANOPY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT BYRON STROUT  
 CALCULATED-DESIGNED BY CHECKED BY  
 LORENA SALVADOR MATTHEW HALL  
 REVISED BY DATE REVISED

THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**  
 SCALE: 1" = 20' PP-6

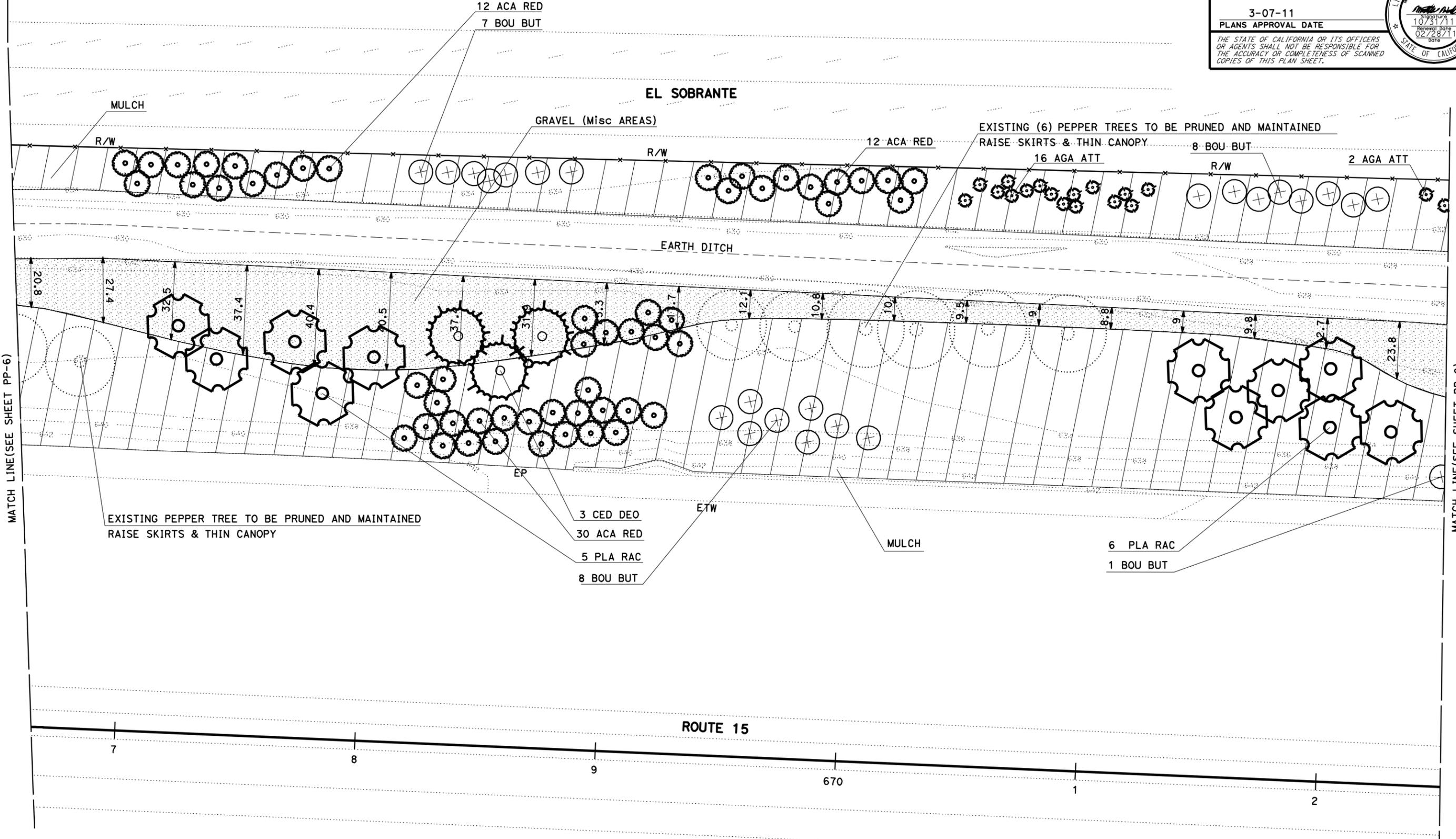
LAST REVISION: 02-28-11 DATE PLOTTED => 30-MAR-2011 TIME PLOTTED => 11:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	10	42

*Matthew Hall*  
 LICENSED LANDSCAPE ARCHITECT  
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 PLANS APPROVAL DATE  
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 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED

THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**  
 SCALE: 1" = 20' **PP-7**

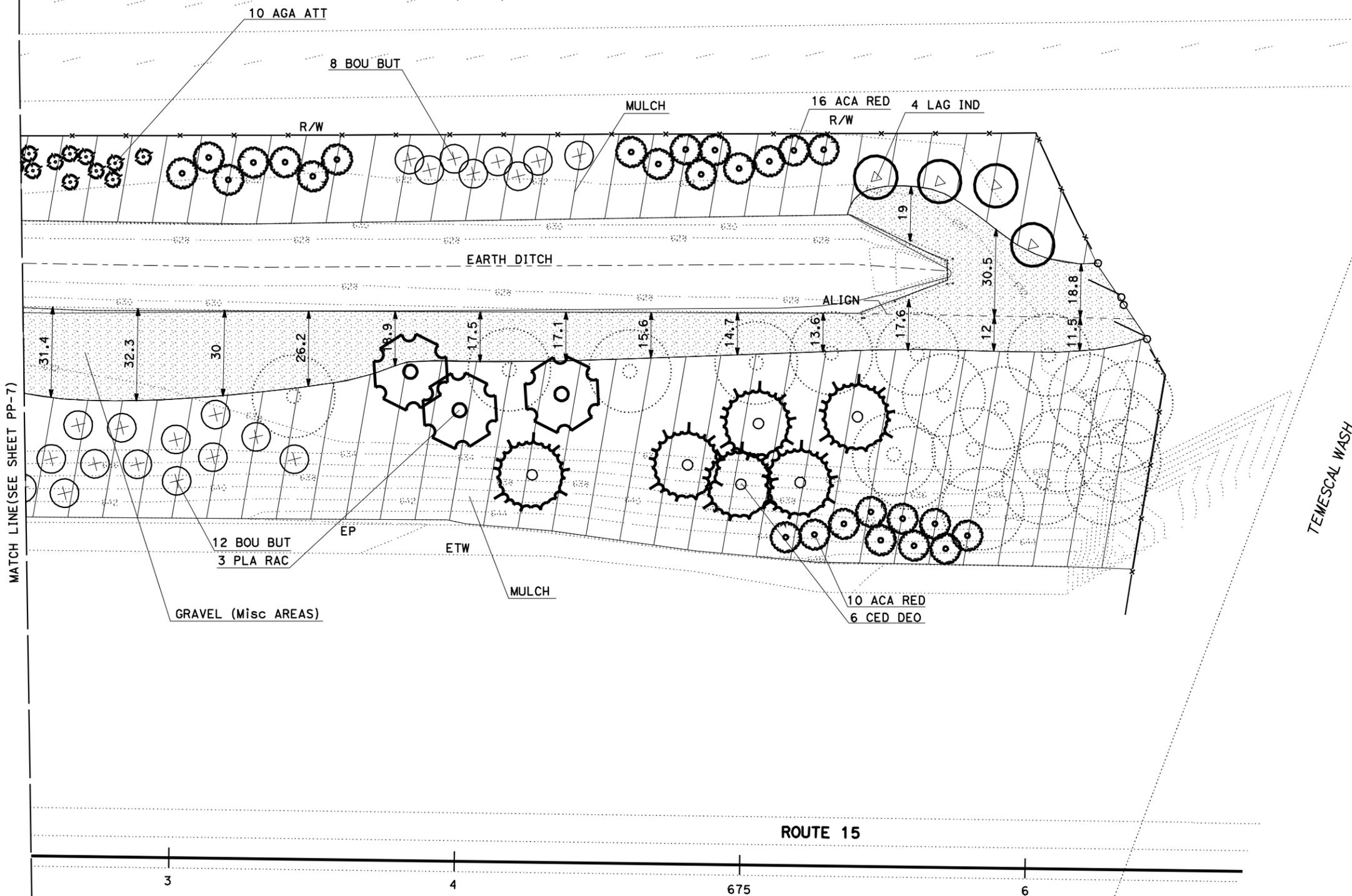
LAST REVISION: DATE PLOTTED => 30-MAR-2011  
 02-28-11 TIME PLOTTED => 11:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	11	42

Matthew Hall  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED

THIS PLAN ACCURATE FOR HIGHWAY PLANTING WORK ONLY.

**PLANTING PLAN**

SCALE: 1" = 20' PP-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT

CALCULATED-DESIGNED BY  
 CHECKED BY

LORENA SALVADOR  
 MATTHEW HALL

REVISED BY  
 DATE REVISED

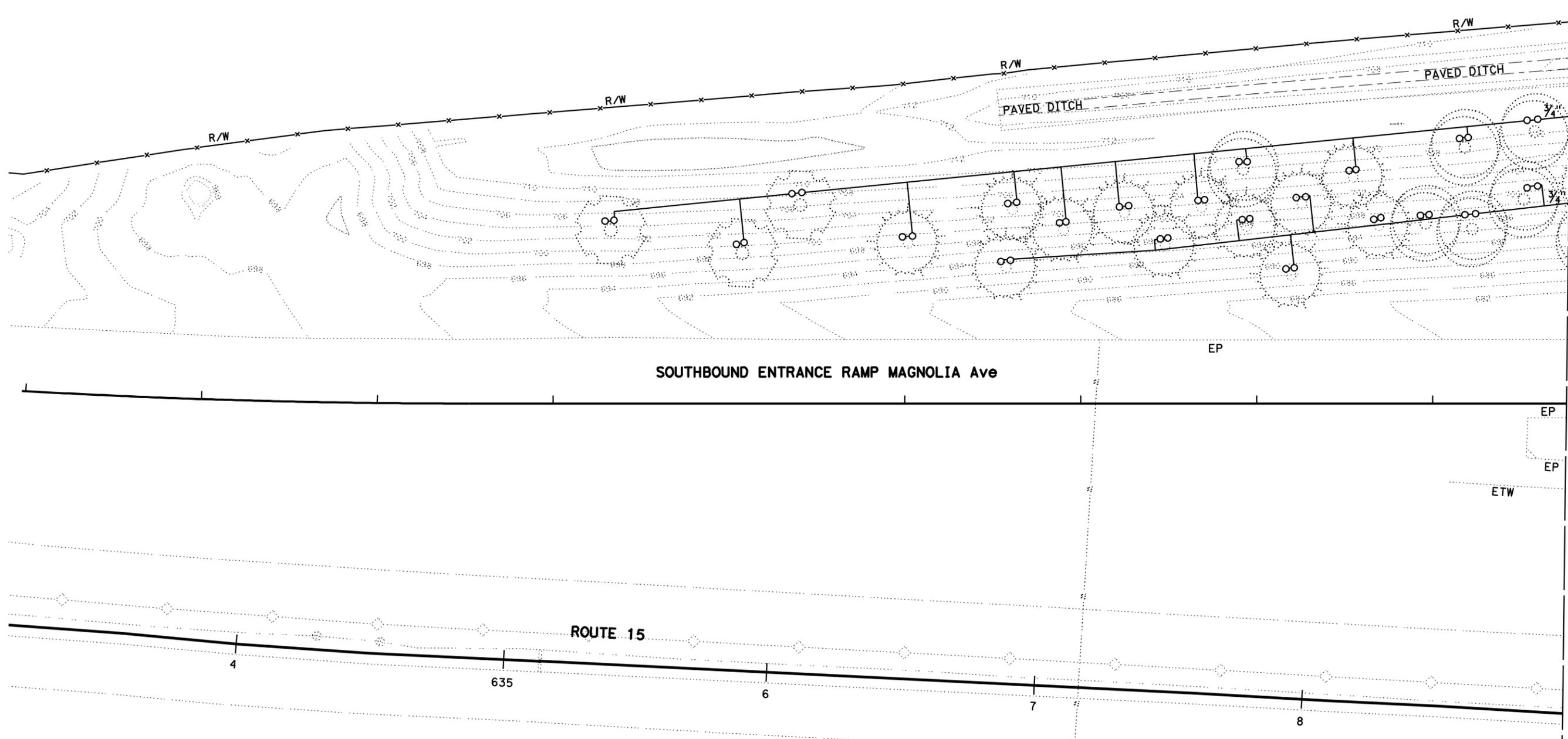
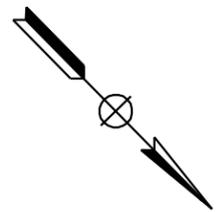
**NOTE:**  
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 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	12	42

*Matthew Hall*  
 LICENSED LANDSCAPE ARCHITECT

3-07-11  
 PLANS APPROVAL DATE

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THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

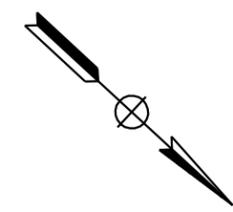
**IRRIGATION PLAN**

SCALE: 1" = 20' **IP-1**

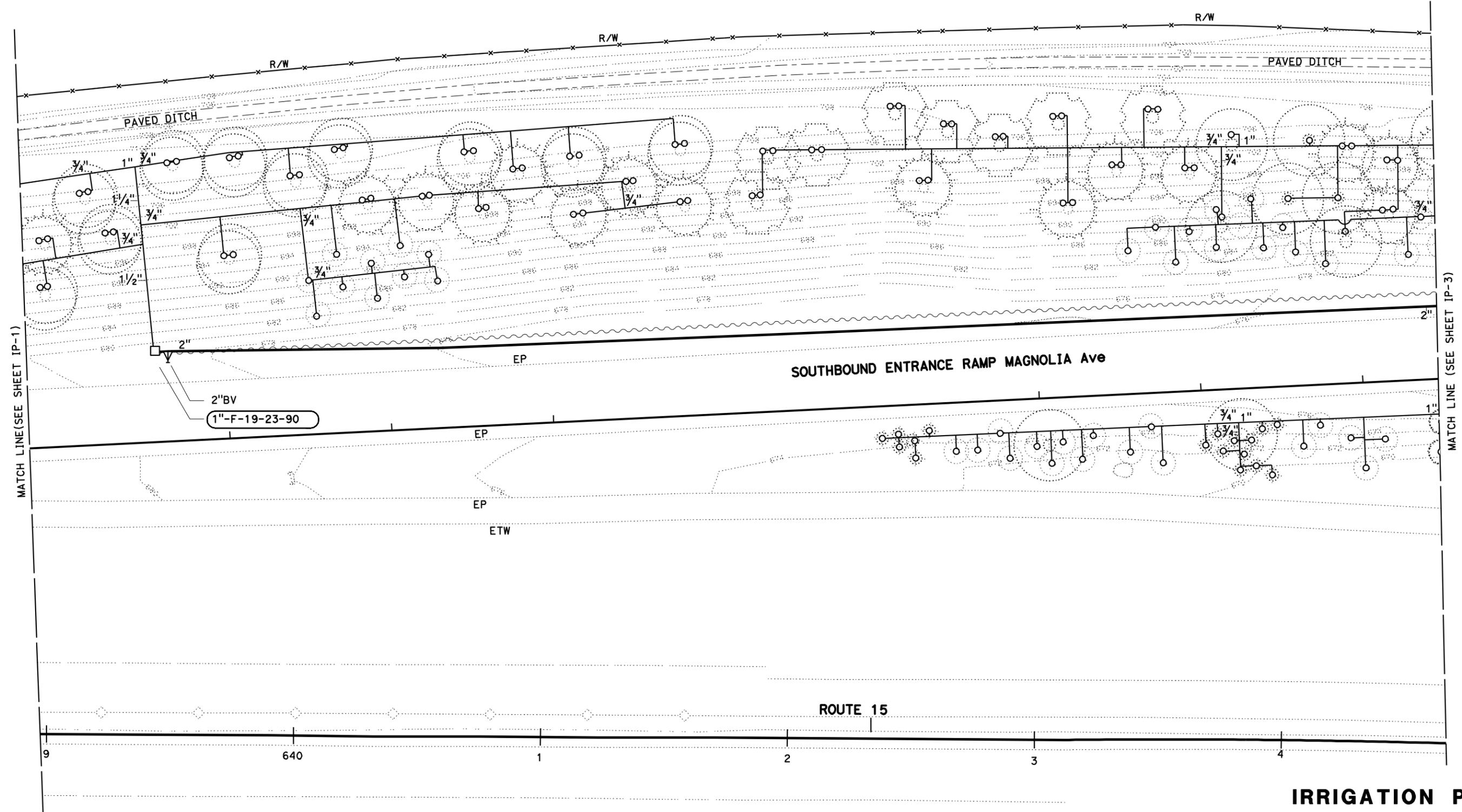
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	13	42

Matthew DeWalt  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
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**NOTE:**  
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED



THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

**IRRIGATION PLAN**  
SCALE: 1" = 20'  
**IP-2**

LAST REVISION: DATE PLOTTED => 30-MAR-2011    TIME PLOTTED => 11:44



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT BYRON STROUT  
 CALCULATED-DESIGNED BY CHECKED BY  
 LORENA SALVADOR MATTHEW HALL  
 REVISED BY DATE REVISED

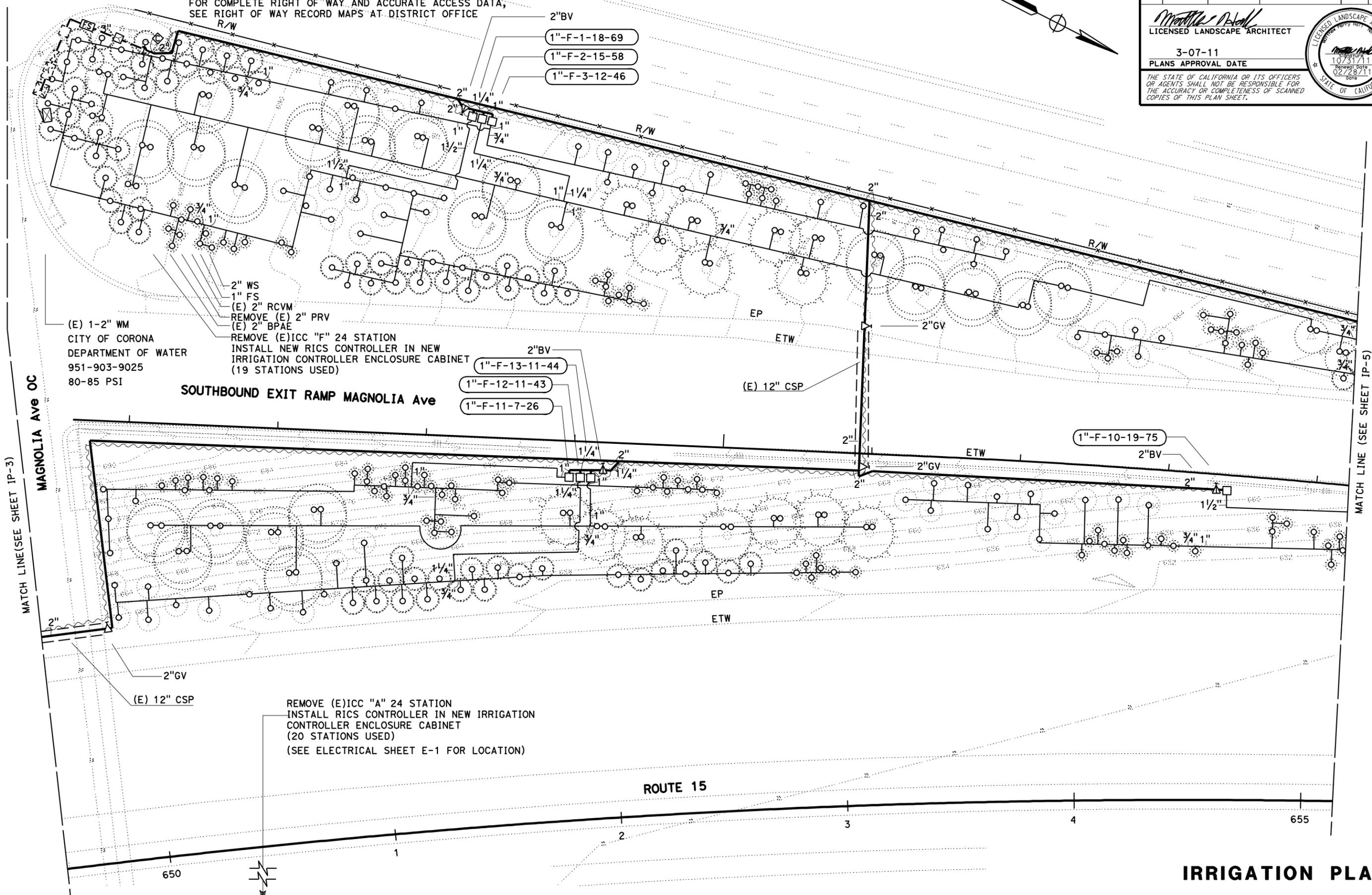
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	15	42

*Matthew Hall*  
 LICENSED LANDSCAPE ARCHITECT  
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10/31/11  
 02/28/11  
 DATE



(E) 1-2" WM  
 CITY OF CORONA  
 DEPARTMENT OF WATER  
 951-903-9025  
 80-85 PSI

2" WS  
 1" FS  
 (E) 2" RCVM  
 REMOVE (E) 2" PRV  
 (E) 2" BPAE  
 REMOVE (E) ICC "F" 24 STATION  
 INSTALL NEW RICS CONTROLLER IN NEW  
 IRRIGATION CONTROLLER ENCLOSURE CABINET  
 (19 STATIONS USED)

REMOVE (E) ICC "A" 24 STATION  
 INSTALL RICS CONTROLLER IN NEW IRRIGATION  
 CONTROLLER ENCLOSURE CABINET  
 (20 STATIONS USED)  
 (SEE ELECTRICAL SHEET E-1 FOR LOCATION)

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

**IRRIGATION PLAN**  
 SCALE: 1" = 20' IP-4

LAST REVISION: DATE PLOTTED => 30-MAR-2011 TIME PLOTTED => 11:44

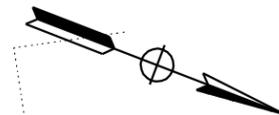
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	16	42

Matthew Deahl  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE

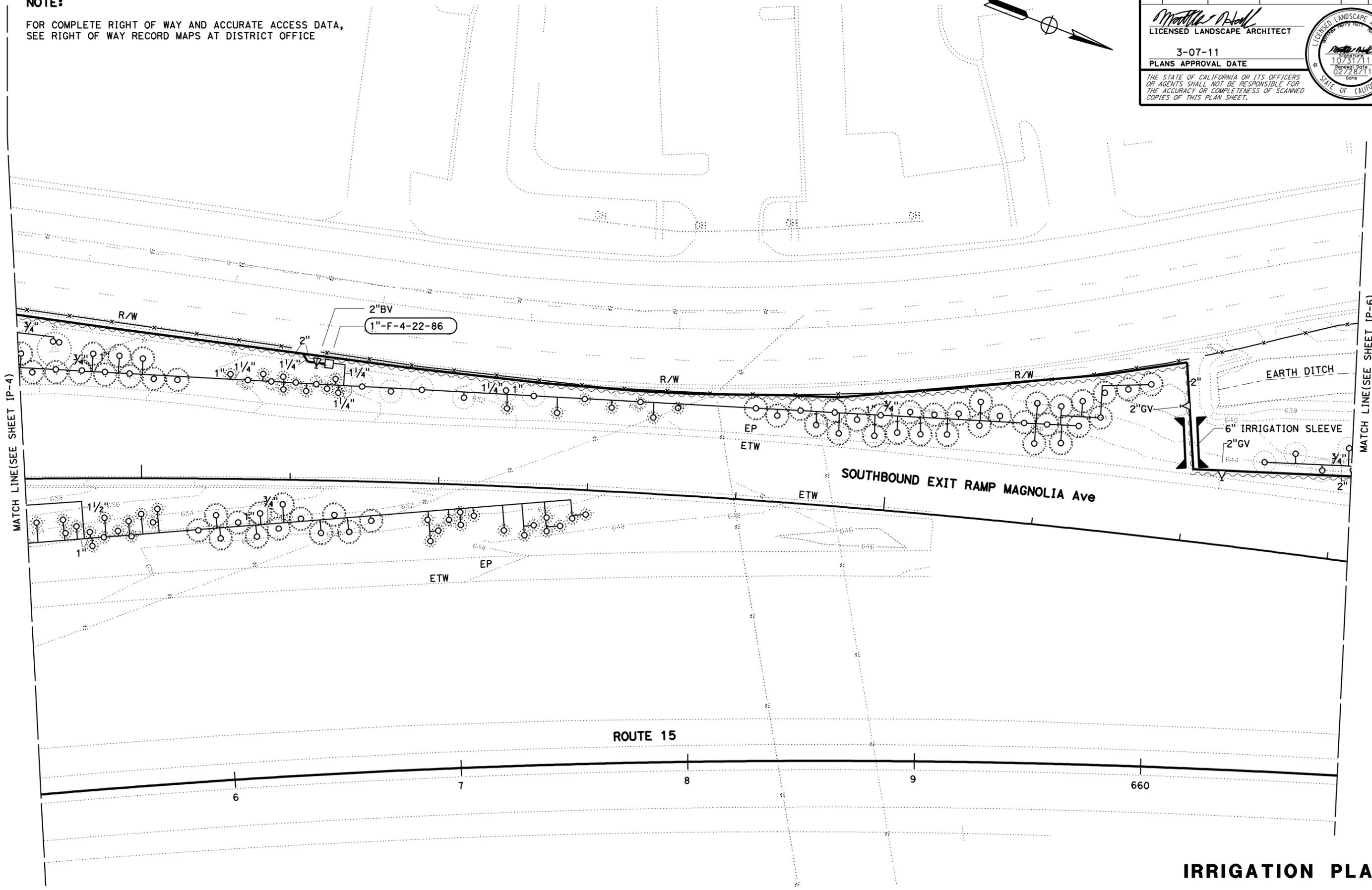
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED



THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

**IRRIGATION PLAN**  
 SCALE: 1" = 20' IP-5

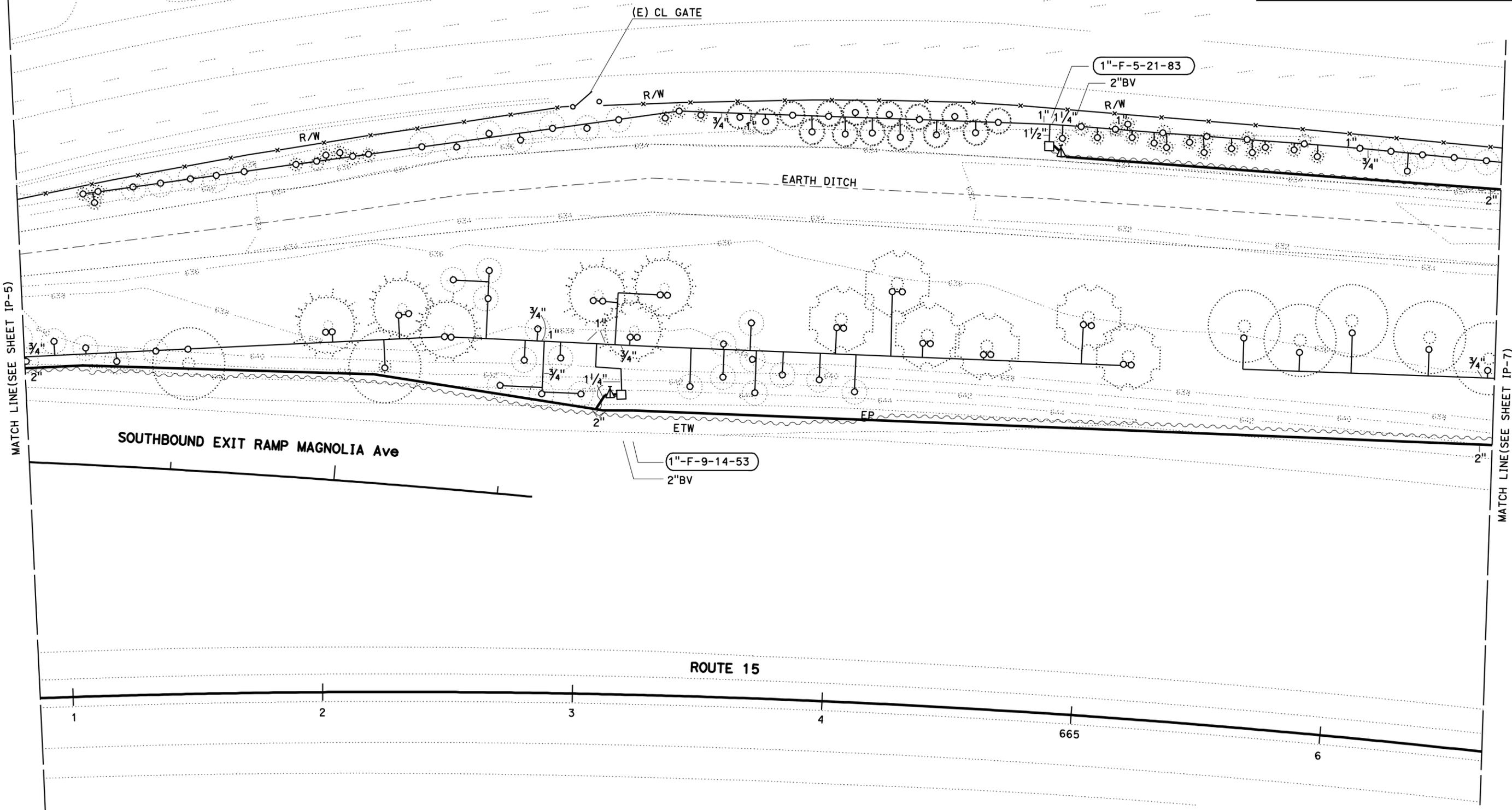
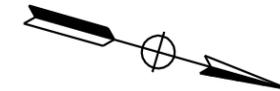
LAST REVISION: DATE PLOTTED => 30-MAR-2011  
 02-28-11 TIME PLOTTED => 11:45

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	17	42

  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 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.

MATCH LINE(SEE SHEET IP-5)

MATCH LINE(SEE SHEET IP-7)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
LANDSCAPE ARCHITECTURE	LORENA SALVADOR	MATTHEW HALL
SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	CHECKED BY
BYRON STROUT		

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

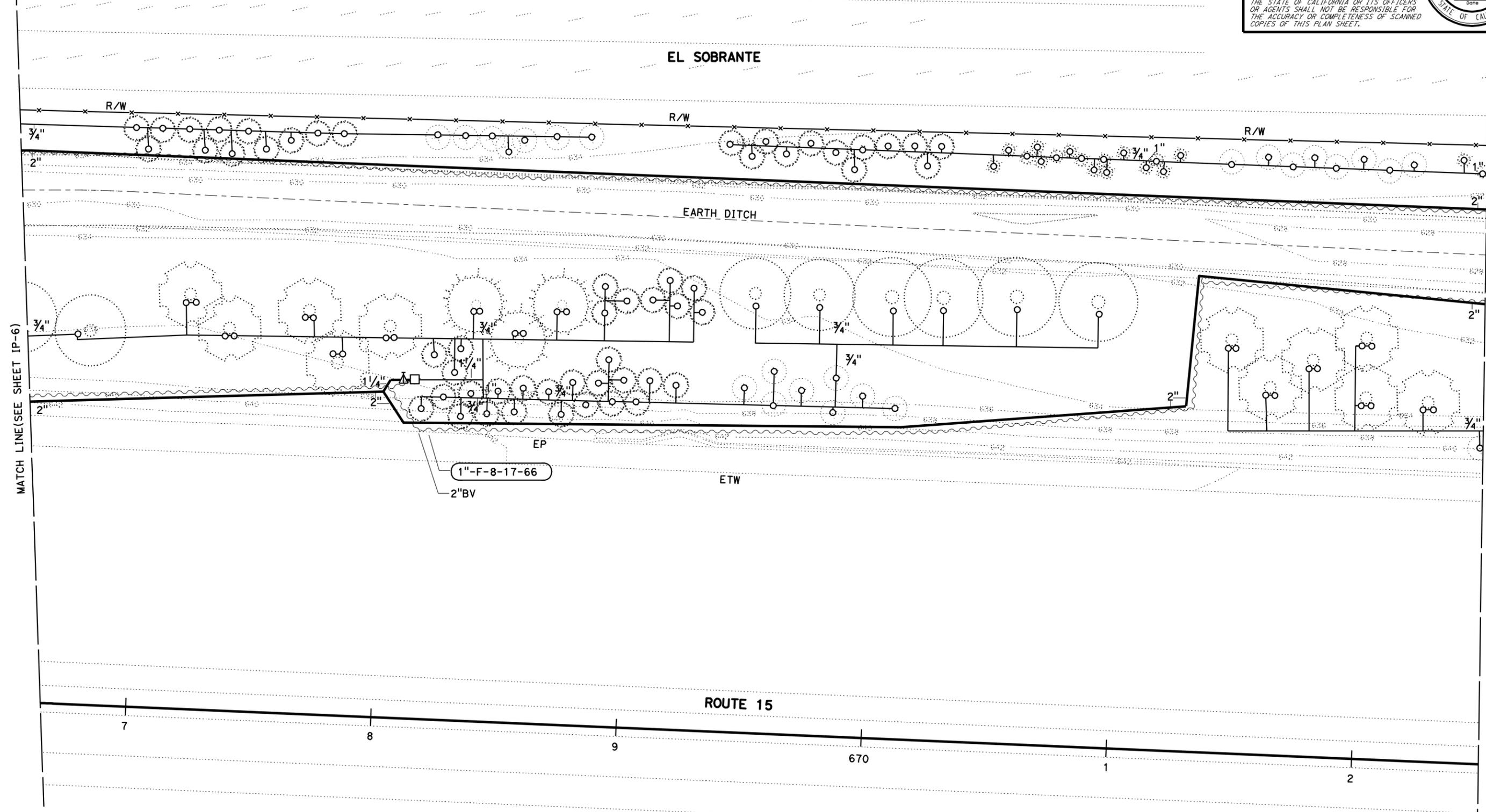
**IRRIGATION PLAN**

SCALE: 1" = 20' **IP-6**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	18	42

Matthew Deval  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,  
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Lorena Salvador  
 Matthew Hall  
 Byron Strout  
 IP-7

**IRRIGATION PLAN**

SCALE: 1" = 20' IP-7

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

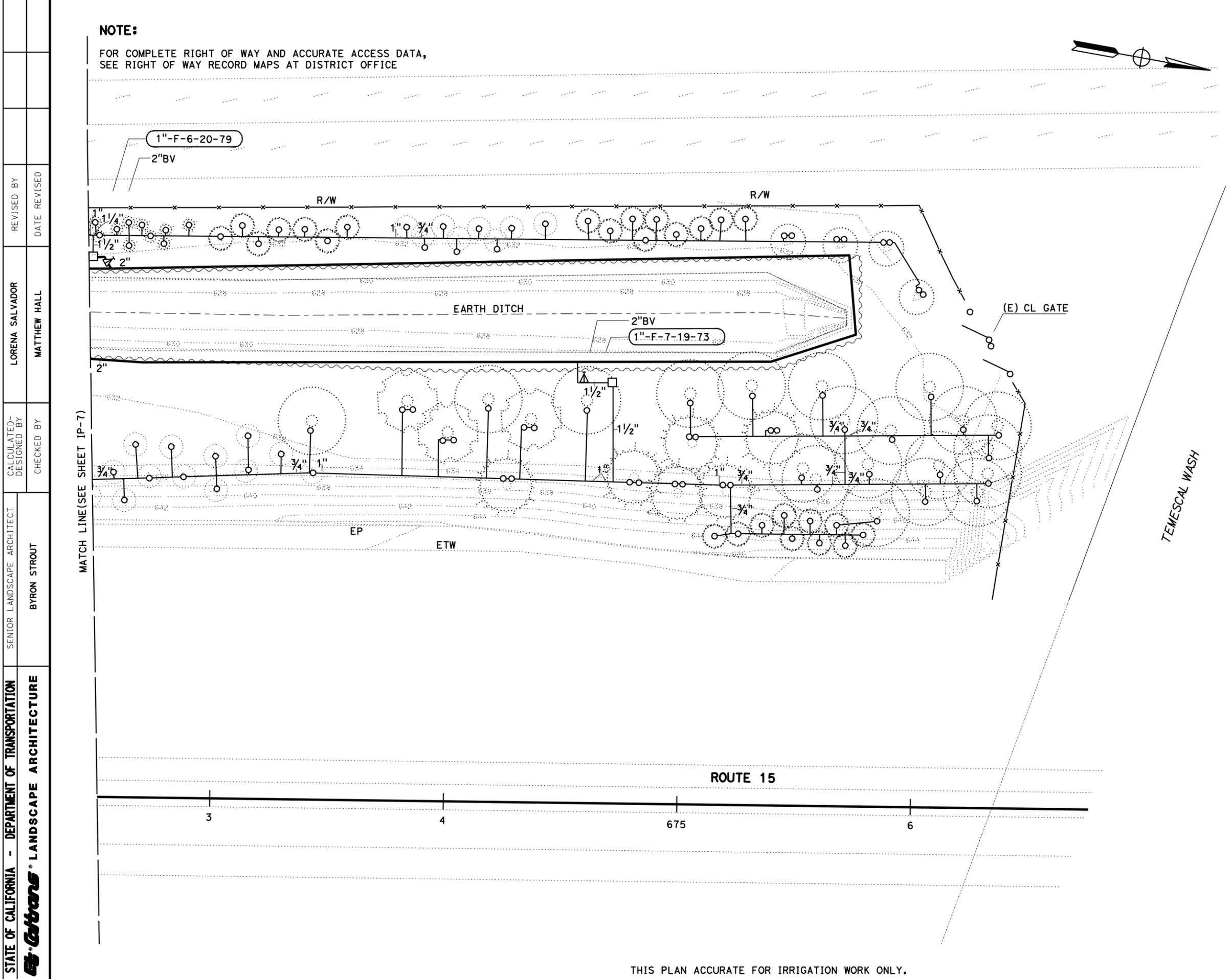
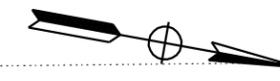
LAST REVISION: DATE PLOTTED => 30-MAR-2011  
 02-28-11 TIME PLOTTED => 11:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	19	42

Matthew DeWalt  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
By: Lorena Salvador	BY	DATE
Checked by: Byron Strout	BY	DATE
Checked by: Matthew Hall	BY	DATE

**IRRIGATION PLAN**  
SCALE: 1" = 20' IP-8

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

LAST REVISION: DATE PLOTTED => 30-MAR-2011  
02-28-11 TIME PLOTTED => 11:45



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	21	42

  
 LICENSED LANDSCAPE ARCHITECT  
 3-07-11  
 PLANS APPROVAL DATE



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**ABBREVIATIONS**

- EA — EACH
- DIP — DUCTILE IRON PIPE
- GSP — GALVANIZED STEEL PIPE
- FT — FOOT/FEET
- PR — PRESSURE RATED

**SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE**

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER																			SUBTOTALS	UNIT	DESCRIPTION	
		F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-14	F-15	F-16	F-17	F-18	F-19				
PLASTIC PIPE SUPPLY LINE SCH 40	3/4"	LF	536	542	544	521	689	597	1,049	1,109	810	596	417	520	408	646	685	416	949	860	1,644	13,801	LF	3/4"
	1"	LF	162	88	111	224	224	274	180	51	28	169	84	110	22	259	119	118	273	158	20	2,564	LF	1"
	1 1/4"	LF	-	72	-	137	25	2	-	28	28	-	-	110	-	71	49	-	97	46	32	690	LF	1 1/4"
	1 1/2"	LF	90	-	-	-	7	9	352	-	-	100	-	110	-	75	40	-	79	159	42	953	LF	1 1/2"
SPRINKLER TYPE	C-2	EA	69	58	46	86	83	79	73	66	53	75	26	43	44	79	77	28	98	90	90	1,263	EA	C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 BYRON STROUT  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 LORENA SALVADOR  
 MATTHEW HALL  
 REVISED BY  
 DATE REVISED

**IRRIGATION QUANTITIES**

**IQ-1**

LAST REVISION      DATE PLOTTED => 30-MAR-2011      TIME PLOTTED => 11:45





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	24	42

<i>Michael Apante</i>	02-28-11
REGISTERED ELECTRICAL ENGINEER	DATE
3-07-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL APANTE  
 No. E 17164  
 Exp. 9-30-11  
 ELECTRICAL  
 STATE OF CALIFORNIA

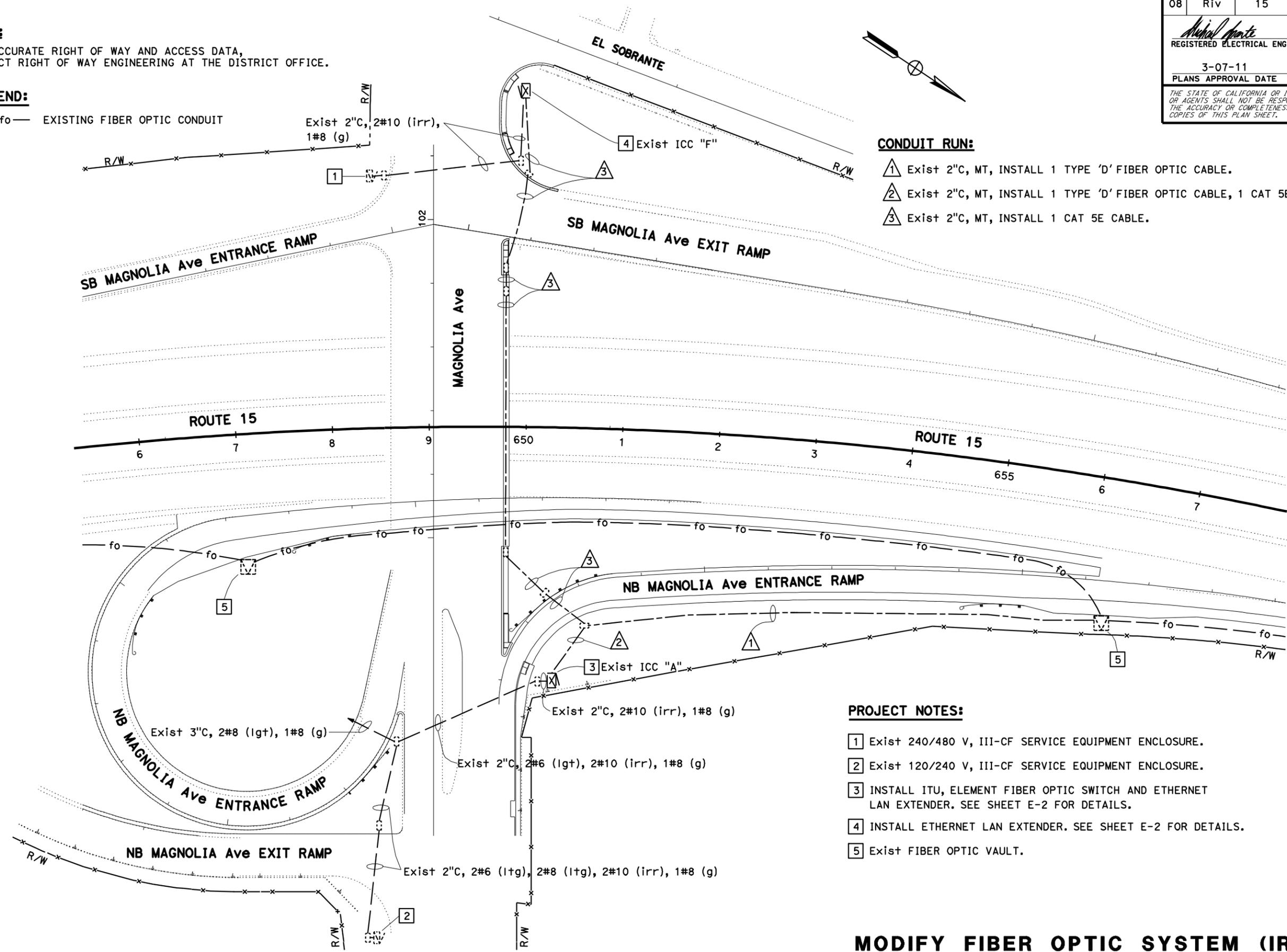
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND:**

— fo — EXISTING FIBER OPTIC CONDUIT



**CONDUIT RUN:**

- △ 1 Exist 2"C, MT, INSTALL 1 TYPE 'D' FIBER OPTIC CABLE.
- △ 2 Exist 2"C, MT, INSTALL 1 TYPE 'D' FIBER OPTIC CABLE, 1 CAT 5E CABLE.
- △ 3 Exist 2"C, MT, INSTALL 1 CAT 5E CABLE.

**PROJECT NOTES:**

- 1 Exist 240/480 V, III-CF SERVICE EQUIPMENT ENCLOSURE.
- 2 Exist 120/240 V, III-CF SERVICE EQUIPMENT ENCLOSURE.
- 3 INSTALL ITU, ELEMENT FIBER OPTIC SWITCH AND ETHERNET LAN EXTENDER. SEE SHEET E-2 FOR DETAILS.
- 4 INSTALL ETHERNET LAN EXTENDER. SEE SHEET E-2 FOR DETAILS.
- 5 Exist FIBER OPTIC VAULT.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b> ELECTRICAL DESIGN A
FUNCTIONAL SUPERVISOR
DAVID A. GONZALEZ
CHECKED BY
FRANCISCO MARTINEZ
REVISOR
MICHAEL APANTE
DESIGNED BY
DATE
REVISION

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

**MODIFY FIBER OPTIC SYSTEM (IRRIGATION)**

SCALE 1"=50'

**E-1**

LAST REVISION DATE PLOTTED => 30-MAR-2011 11:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	15	40.0/41.3	25	42

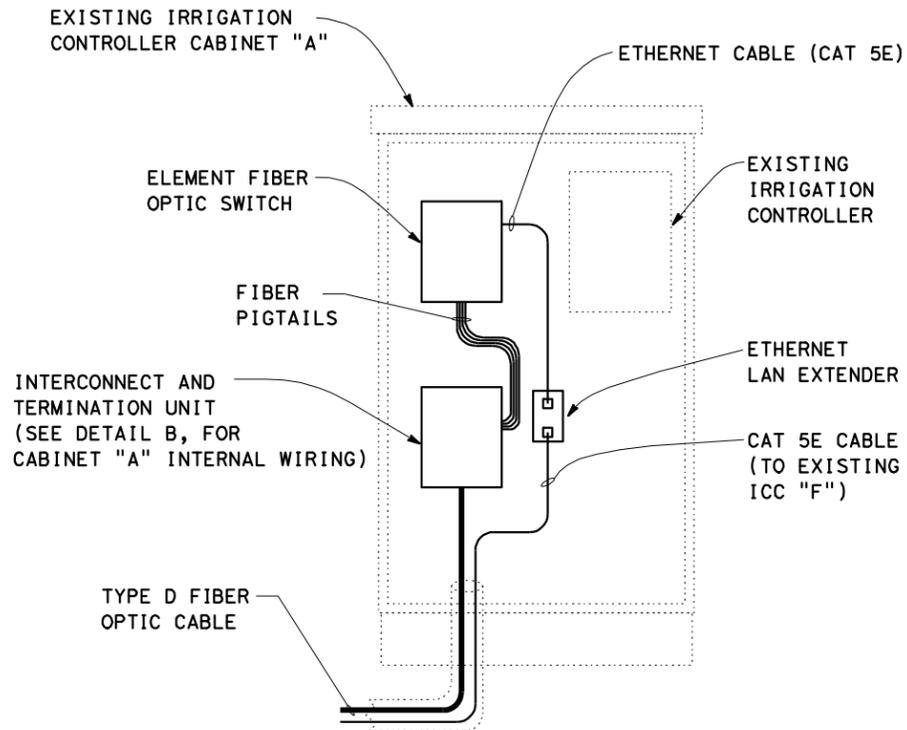
02-28-11  
 REGISTERED ELECTRICAL ENGINEER DATE  
 3-07-11  
 PLANS APPROVAL DATE

MICHAEL APANTE  
 No. E. 17164  
 Exp. 9-30-11  
 ELECTRICAL  
 STATE OF CALIFORNIA

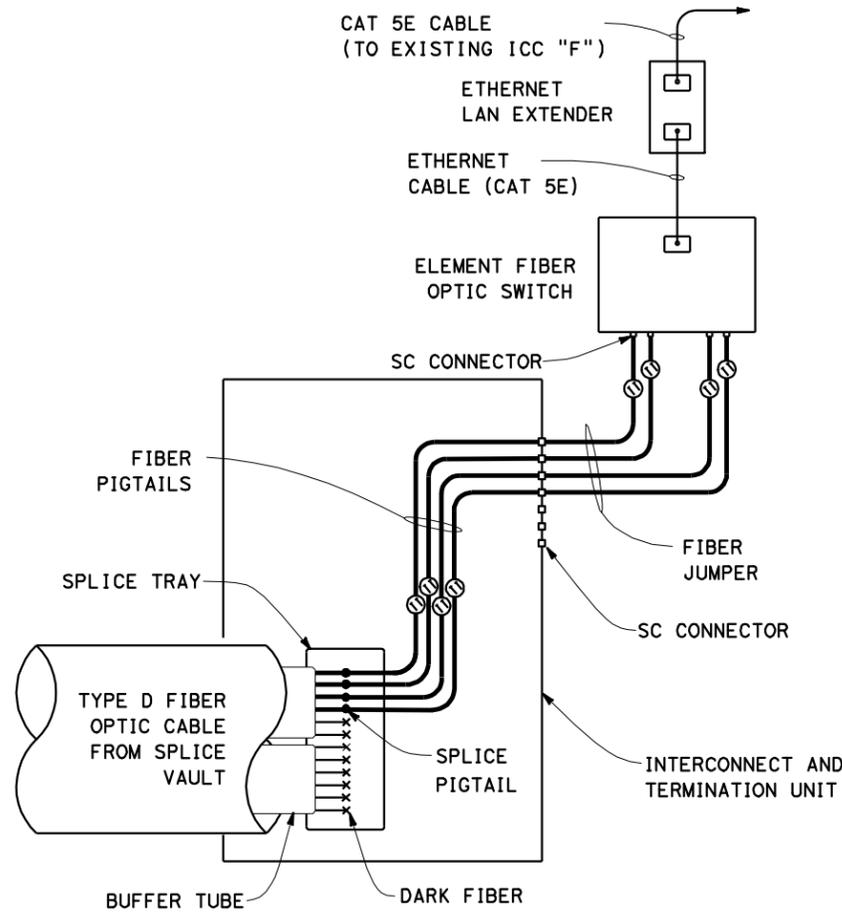
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LEGEND**

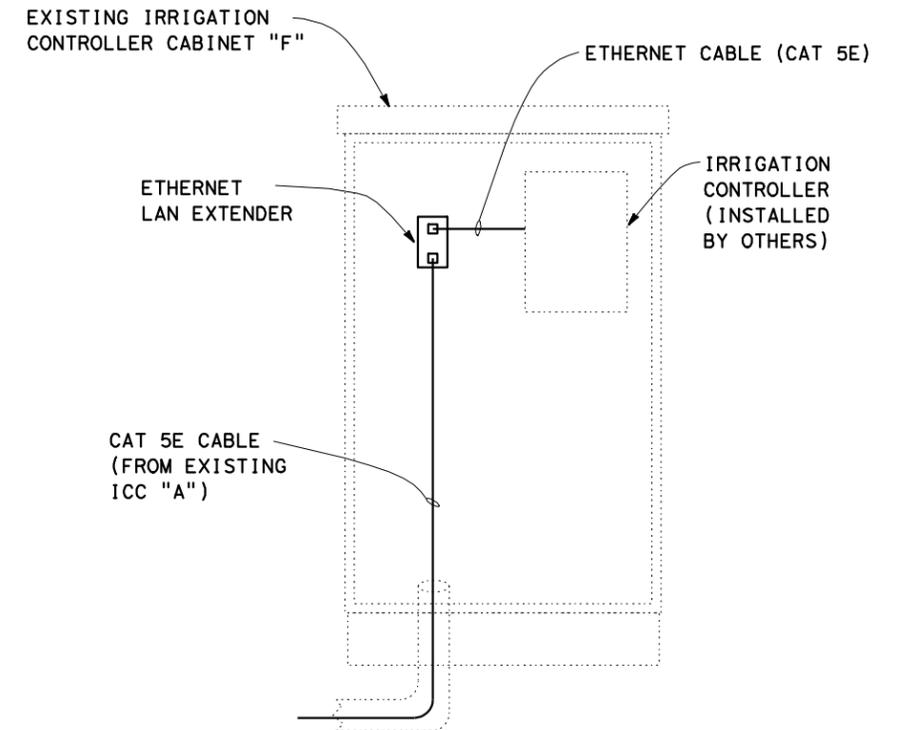
- XX FIBER NUMBER
- (X) FIBER OPTIC COMMUNICATION LINK
- XX→ OUTGOING FIBER



**DETAIL A**  
IRRIGATION CONTROLLER CABINET "A" INTERFACE

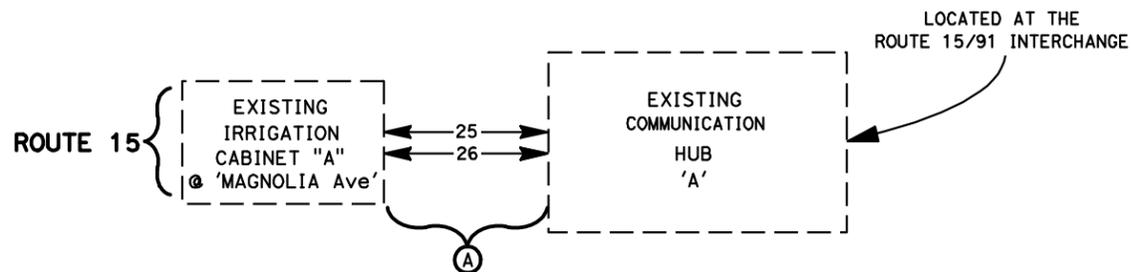


**DETAIL B**  
CABINET "A" INTERNAL WIRING  
(FIBER TO ETHERNET)



**DETAIL C**  
IRRIGATION CONTROLLER CABINET "F" INTERFACE

**EXISTING FIBER OPTIC COMMUNICATION SCHEMATIC**



**FIBER OPTIC COMMUNICATION LINK**

LINK	COMMUNICATION LINK	FIBERS TO BE TESTED	QUANTITY OF FIBERS TO BE TESTED
(A)	ICC "A" AT 'MAGNOLIA Ave' TO HUB 'A'	#25, 26	2
	TOTAL		2

**MODIFY FIBER OPTIC SYSTEM (IRRIGATION)**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

NO SCALE

E-2

REVISIONS:  
 1. FRANCISCO MARTINEZ / MICHAEL APANTE  
 2. DAVID GONZALEZ  
 3.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	26	42

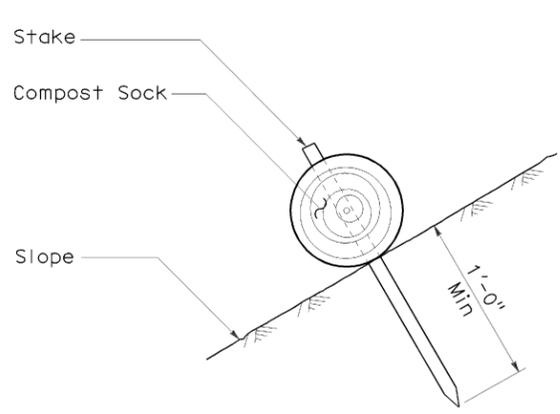
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 02-28-11  
 03-04-09  
 STATE OF CALIFORNIA

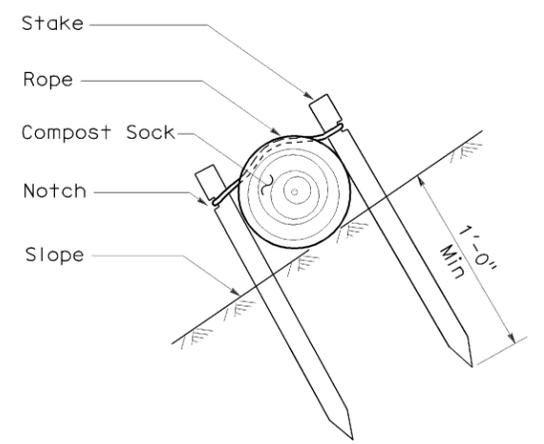
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To accompany plans dated 03-07-11

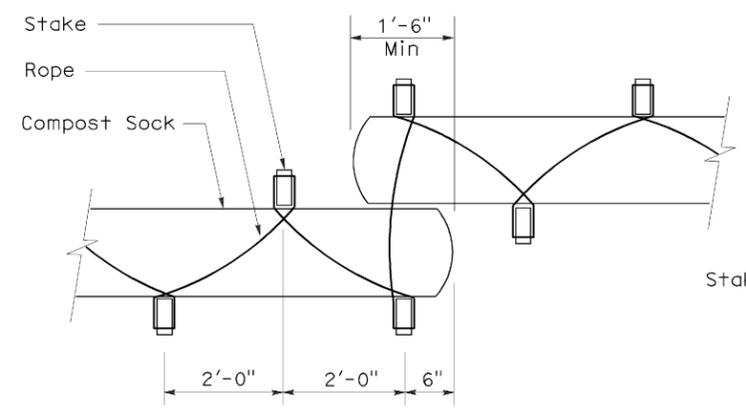
**NOTE:**  
 Compost sock spacing varies depending upon slope inclination.



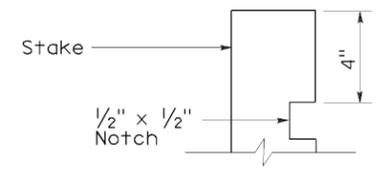
**SECTION**  
**COMPOST SOCK**  
**(TYPE 1)**



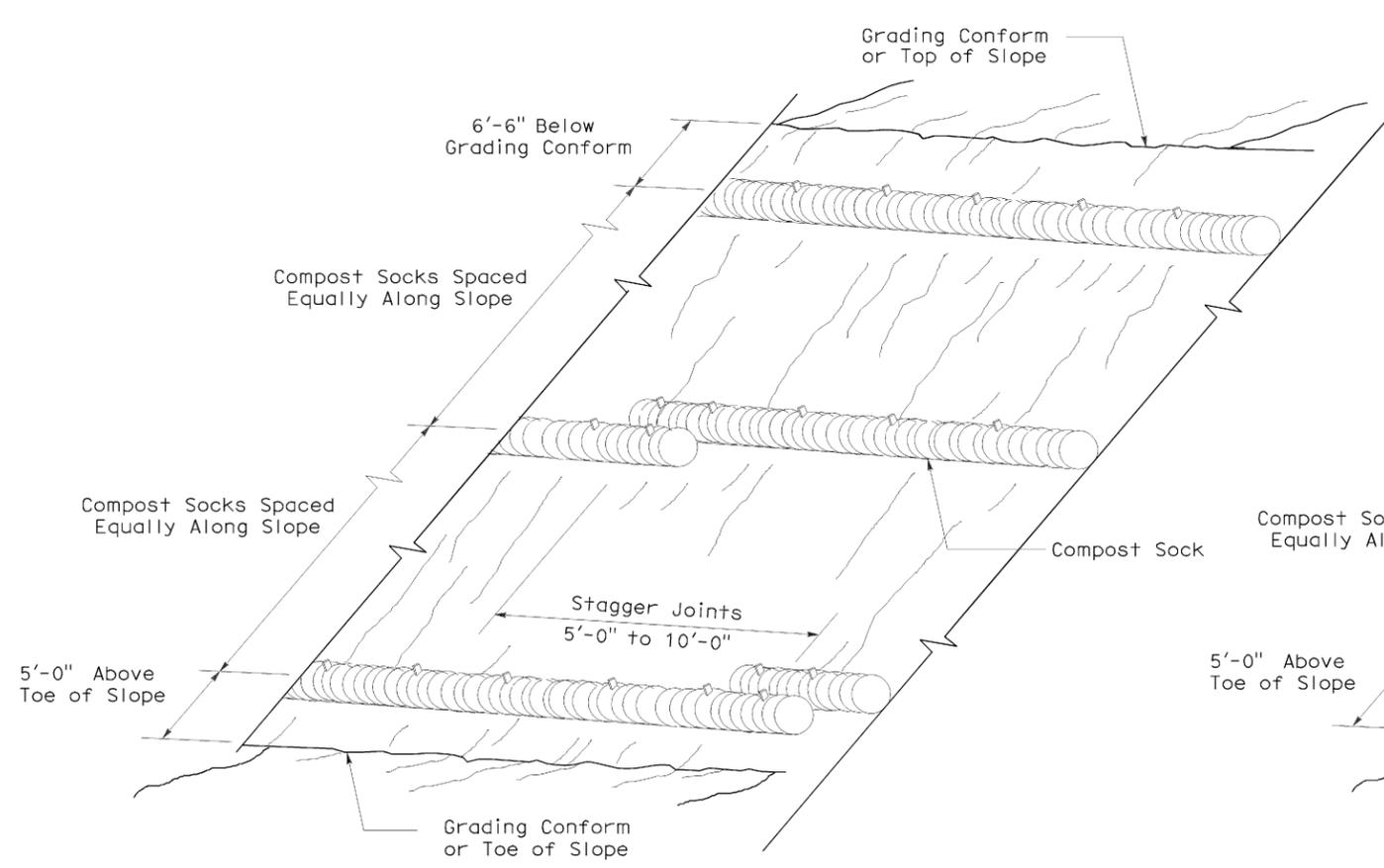
**SECTION**  
**COMPOST SOCK**  
**(TYPE 2)**



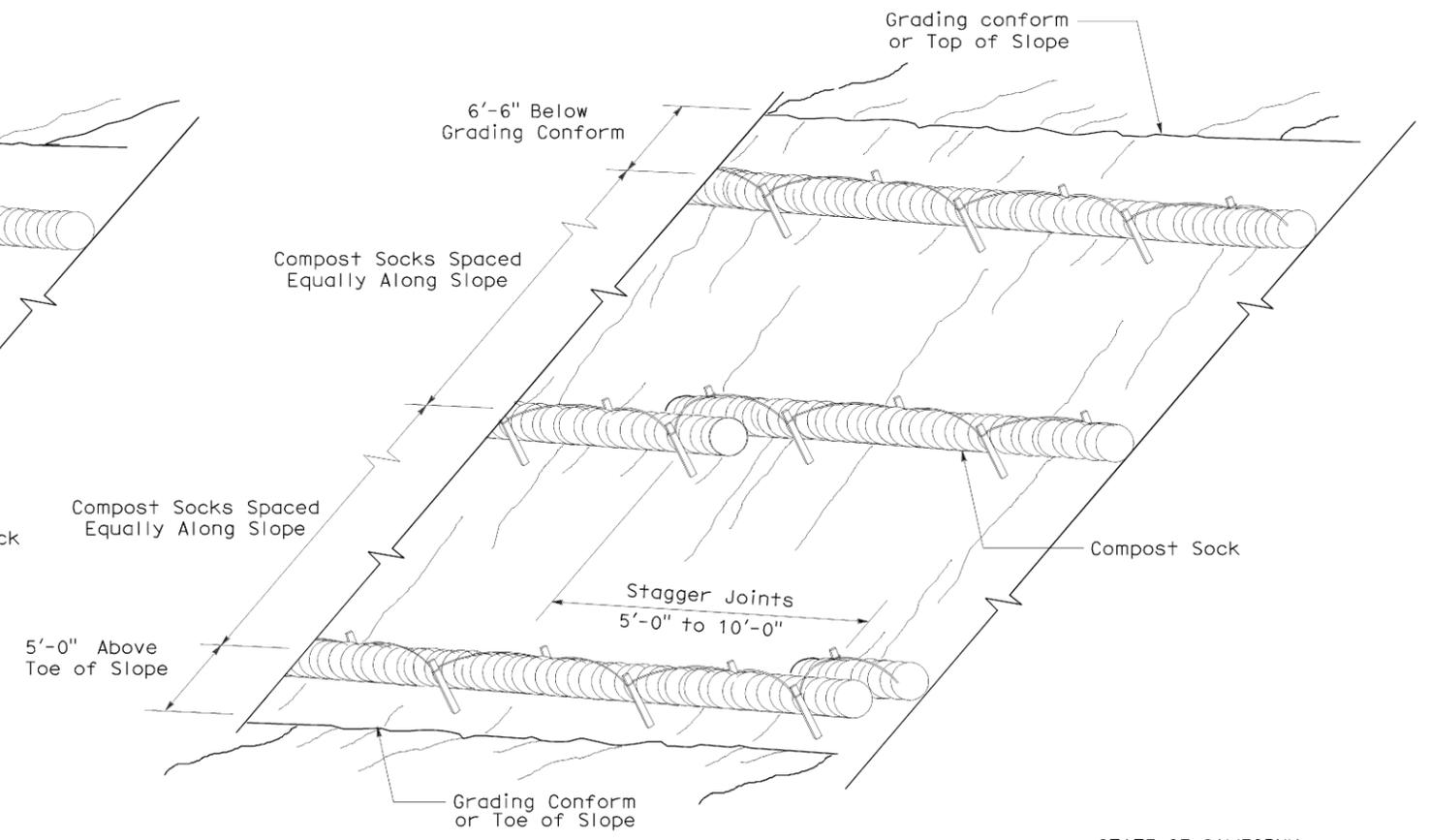
**PLAN**  
**COMPOST SOCK**  
**(TYPE 2)**



**ELEVATION**  
**STAKE NOTCH DETAIL**



**PERSPECTIVE**  
**COMPOST SOCK (TYPE 1)**



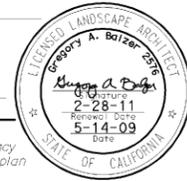
**PERSPECTIVE**  
**COMPOST SOCK (TYPE 2)**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL DETAILS**  
**(COMPOST SOCK)**  
 NO SCALE  
 NSP H52 DATED APRIL 3, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP H52

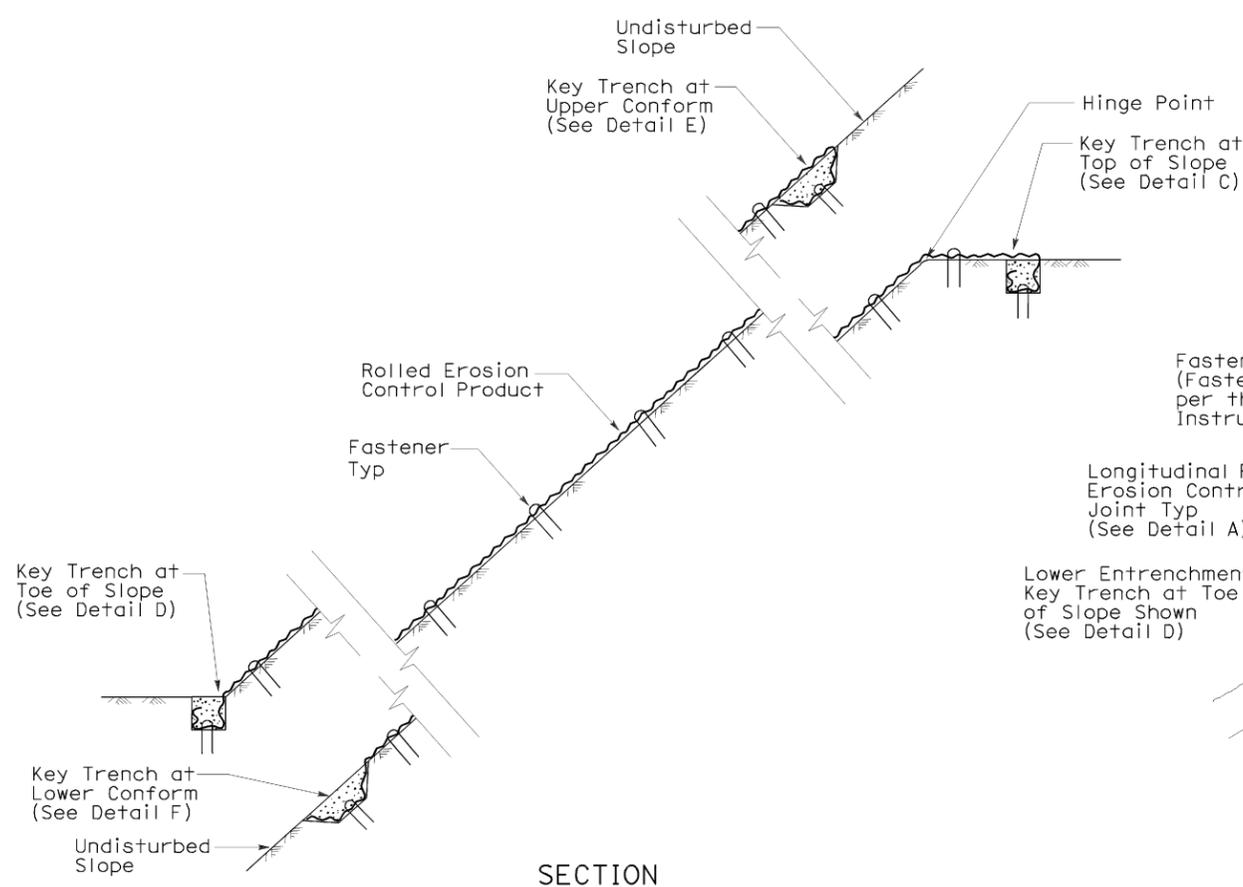
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	27	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 June 5, 2009  
 PLANS APPROVAL DATE  
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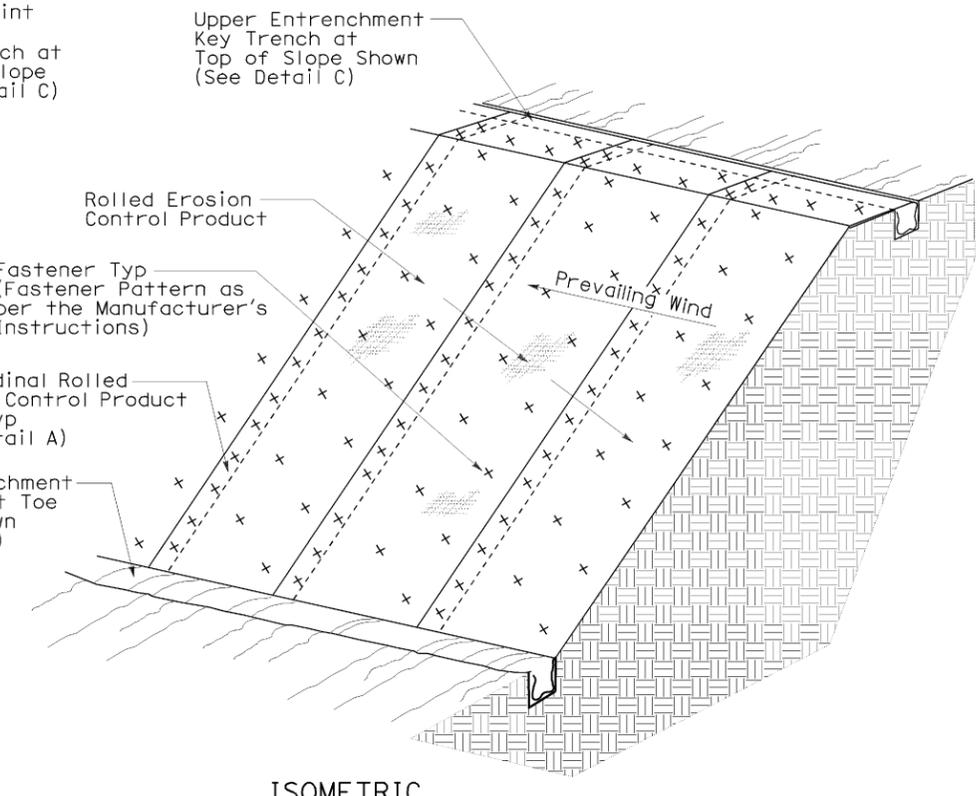


To accompany plans dated 03-07-11

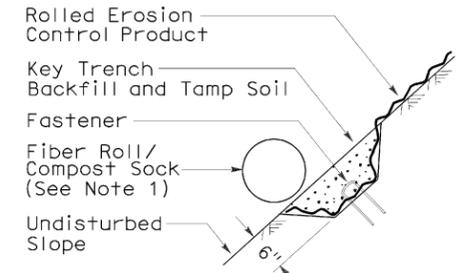
- NOTE:**
1. Fiber Roll/Compost Sock shown for reference purposes only.
  2. If transverse rolled erosion control product joints are required on slopes, see Detail B.



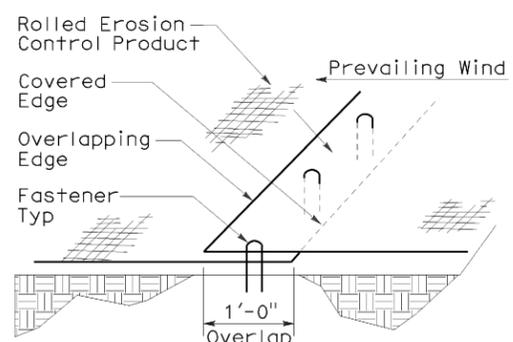
**SECTION**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE WITH VARIOUS KEY ENTRENCHMENTS**



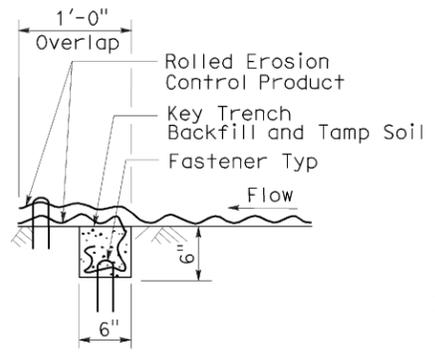
**ISOMETRIC**  
**ROLLED EROSION CONTROL PRODUCT**  
**ON SLOPE**



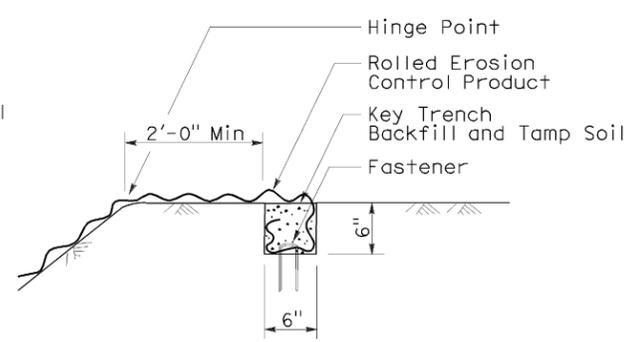
**SECTION**  
**DETAIL F**  
**KEY TRENCH AT**  
**LOWER CONFORM**



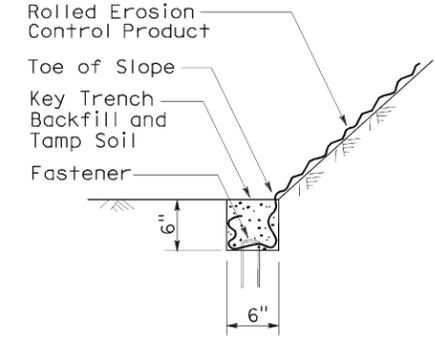
**PERSPECTIVE**  
**DETAIL A**  
**LONGITUDINAL ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



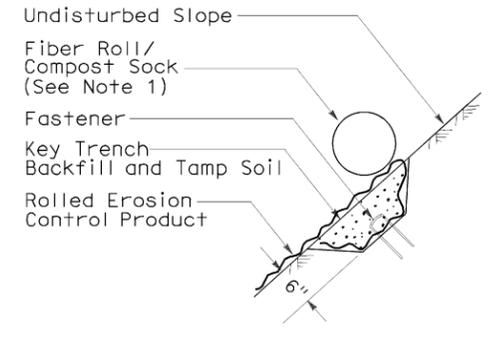
**SECTION**  
**DETAIL B**  
**TRANSVERSE ROLLED EROSION**  
**CONTROL PRODUCT JOINT**



**SECTION**  
**DETAIL C**  
**KEY TRENCH AT**  
**TOP OF SLOPE**



**SECTION**  
**DETAIL D**  
**KEY TRENCH AT**  
**TOE OF SLOPE**



**SECTION**  
**DETAIL E**  
**KEY TRENCH AT**  
**UPPER CONFORM**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**ROLLED EROSION CONTROL PRODUCT**

NO SCALE

NSP H53 DATED JUNE 5, 2009 SUPPLEMENTS  
 THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP H53**

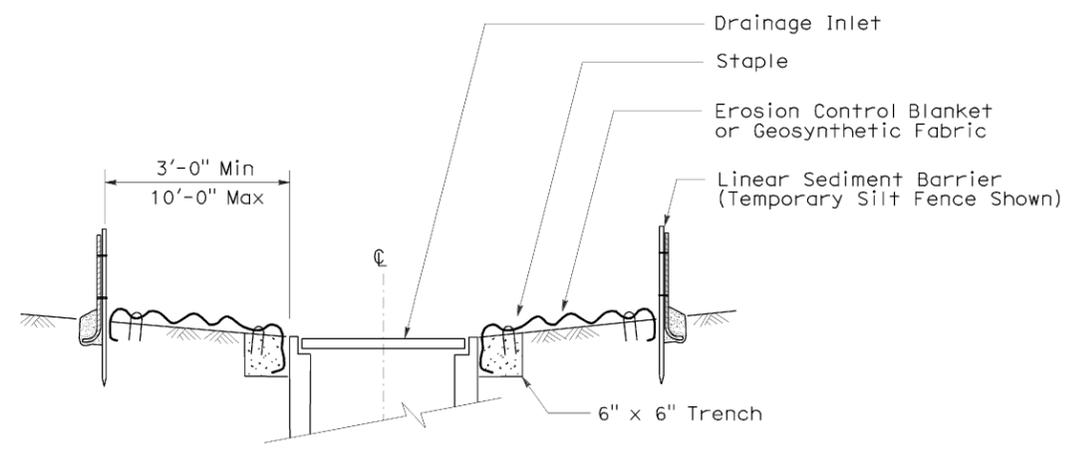
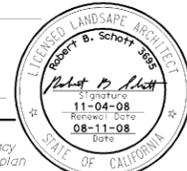
2006 NEW STANDARD PLAN NSP H53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	28	42

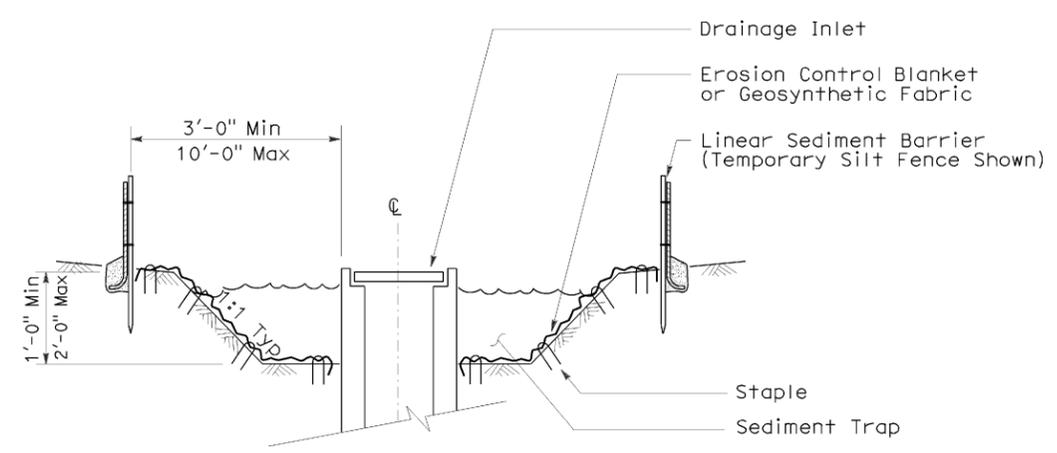
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 August 15, 2008  
 PLANS Approval DATE

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To accompany plans dated 03-07-11

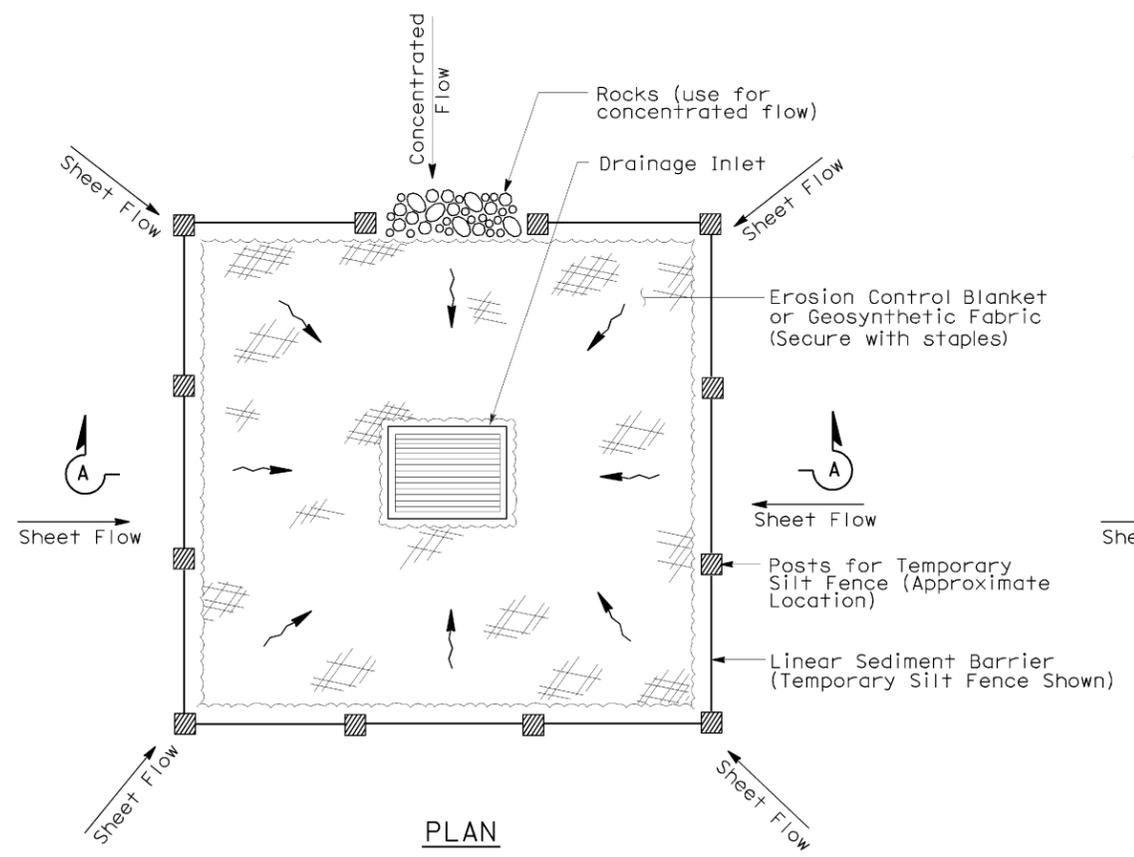


SECTION A-A

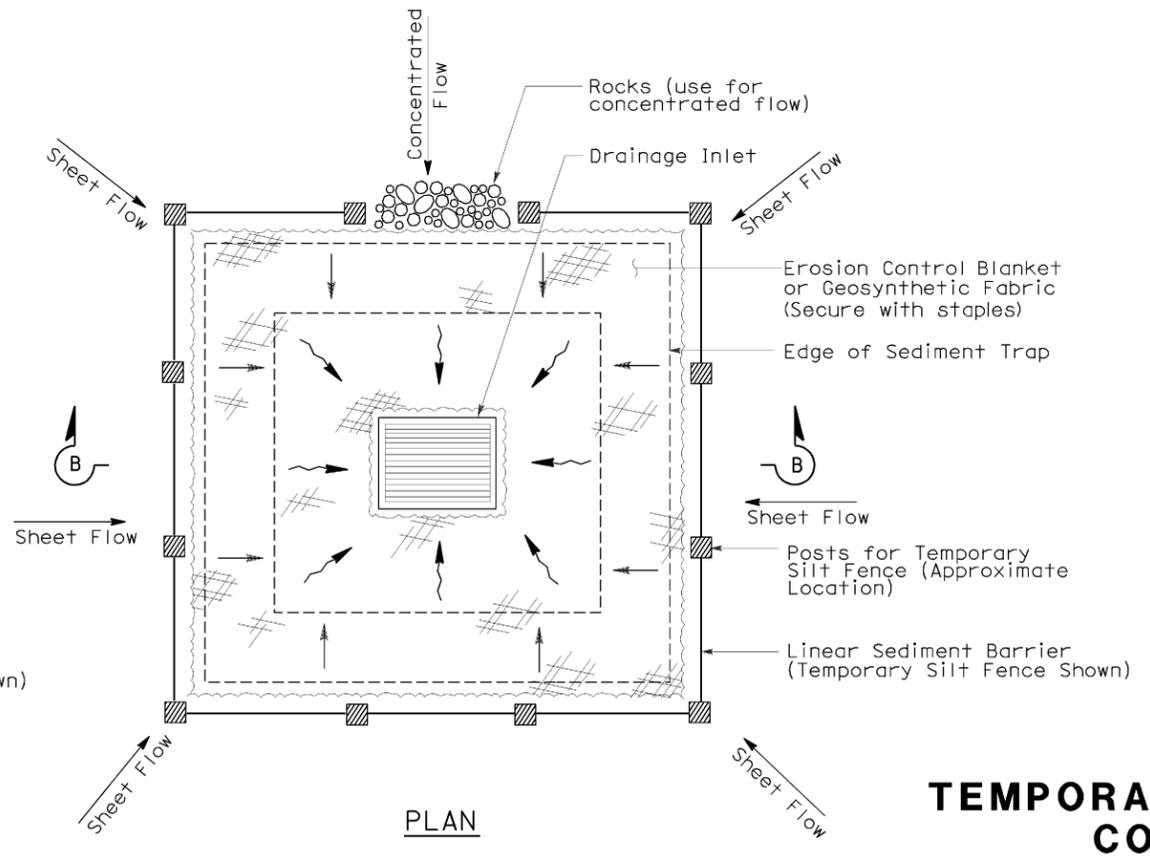


SECTION B-B

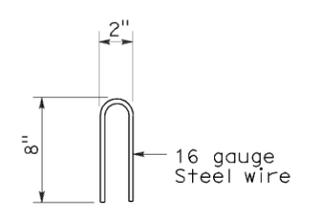
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
  2. Dimensions may vary to fit field conditions.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TEMPORARY WATER POLLUTION CONTROL DETAILS**  
**(TEMPORARY DRAINAGE INLET PROTECTION)**  
 NO SCALE

Nsp t61 dated august 15, 2008 supplements the standard plans book dated may 2006.

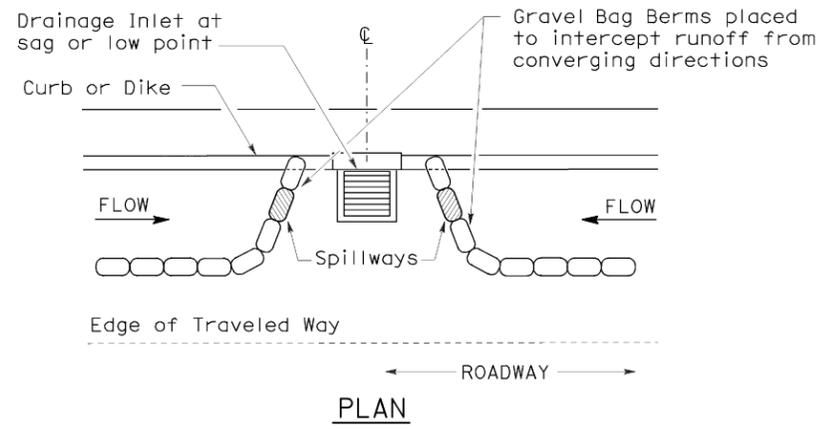
2006 NEW STANDARD PLAN NSP T61

2006 NEW STANDARD PLAN NSP T62

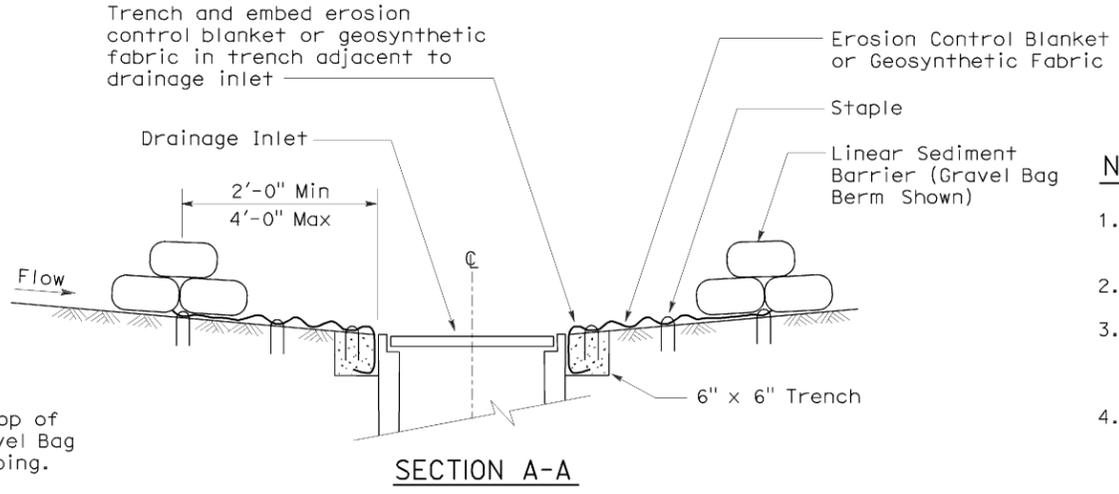
**GRAVEL BAG BERM (TYPE 3A) SPACING TABLE**

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



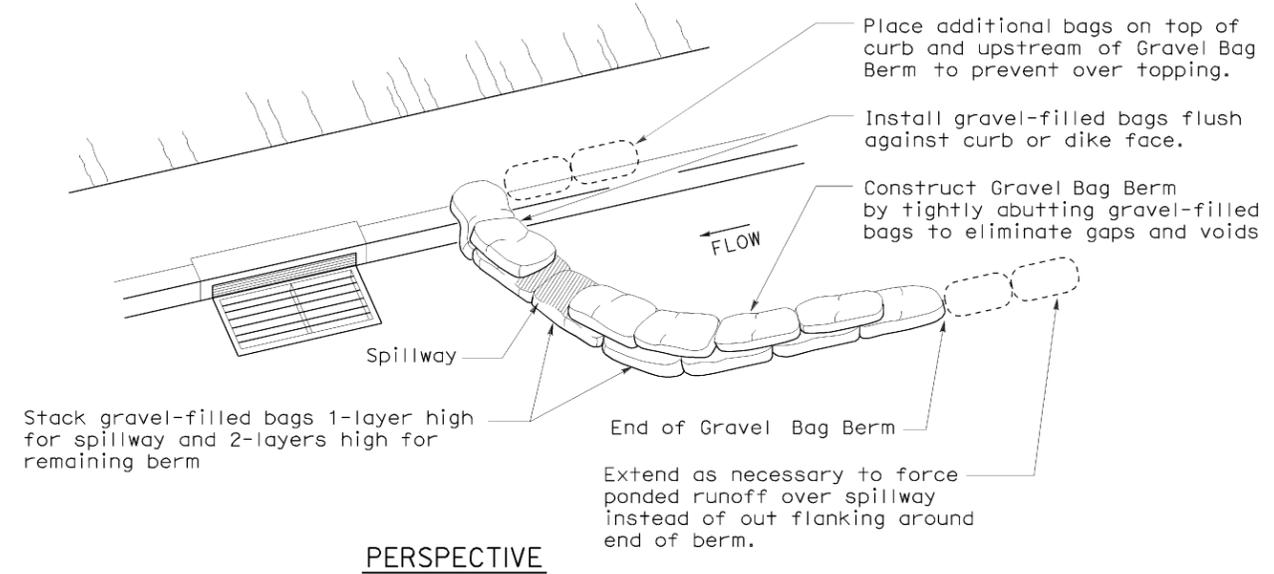
**PLAN**  
**CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)**



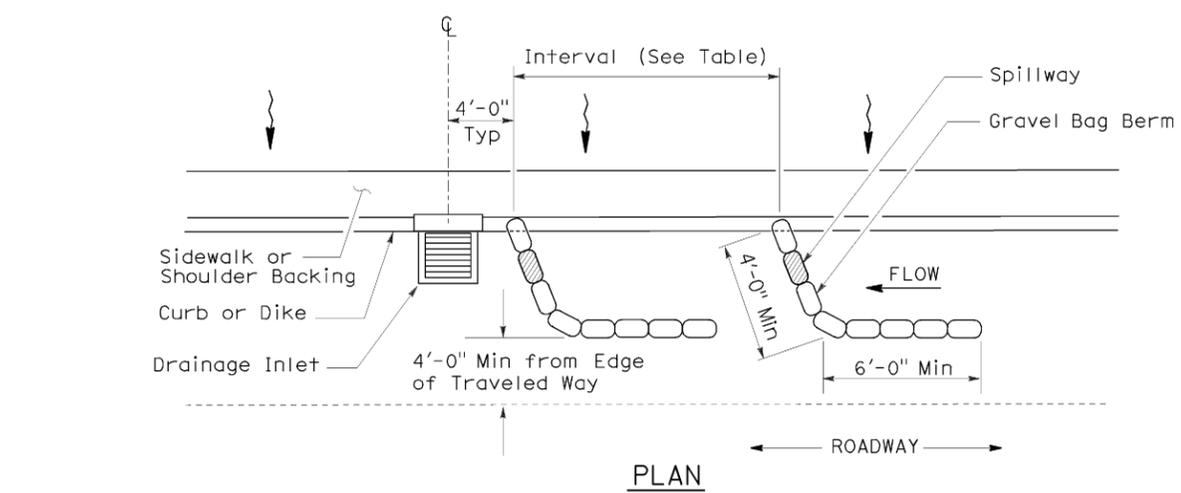
**SECTION A-A**

**NOTES:**

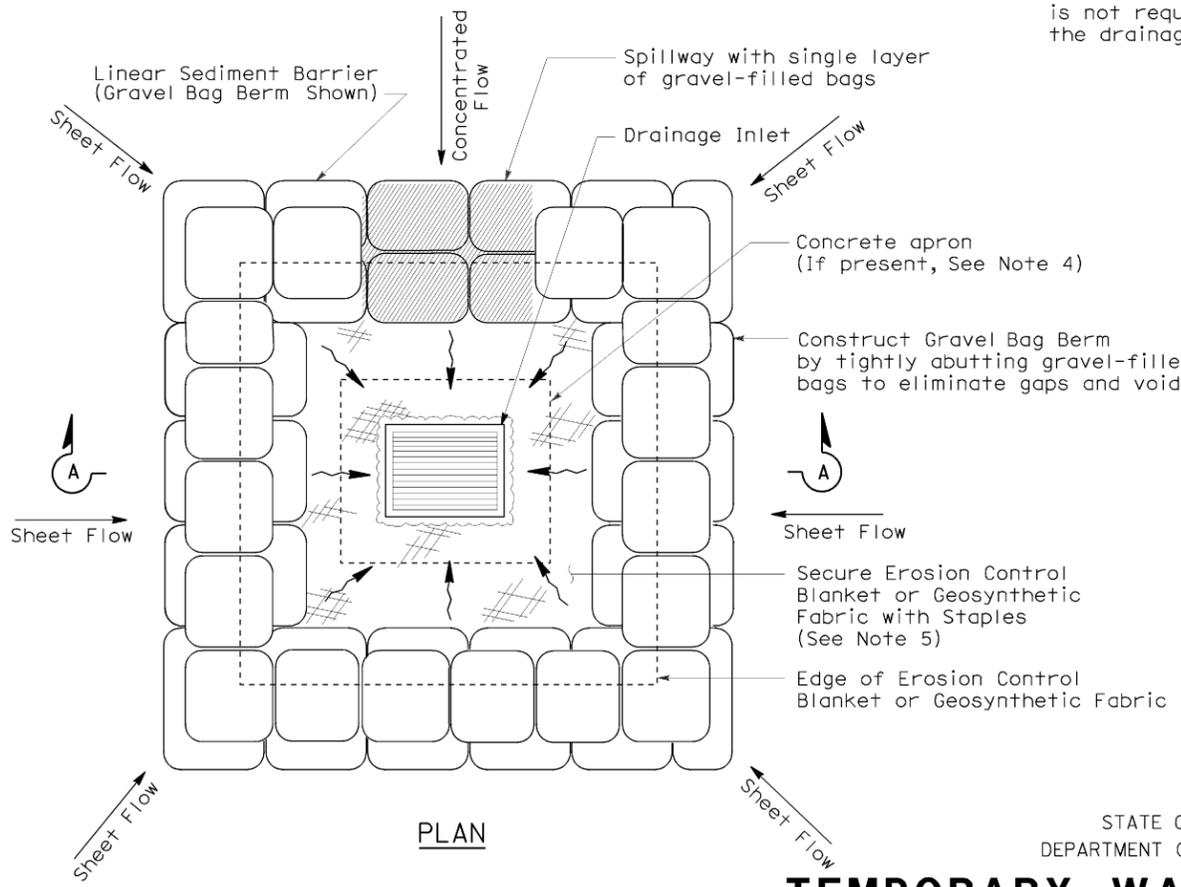
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



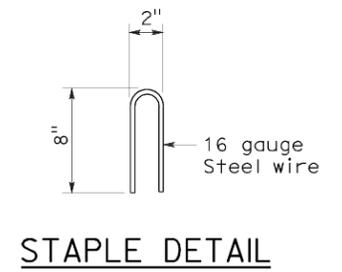
**PERSPECTIVE**



**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)**



**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)**



**STAPLE DETAIL**

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE  
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'

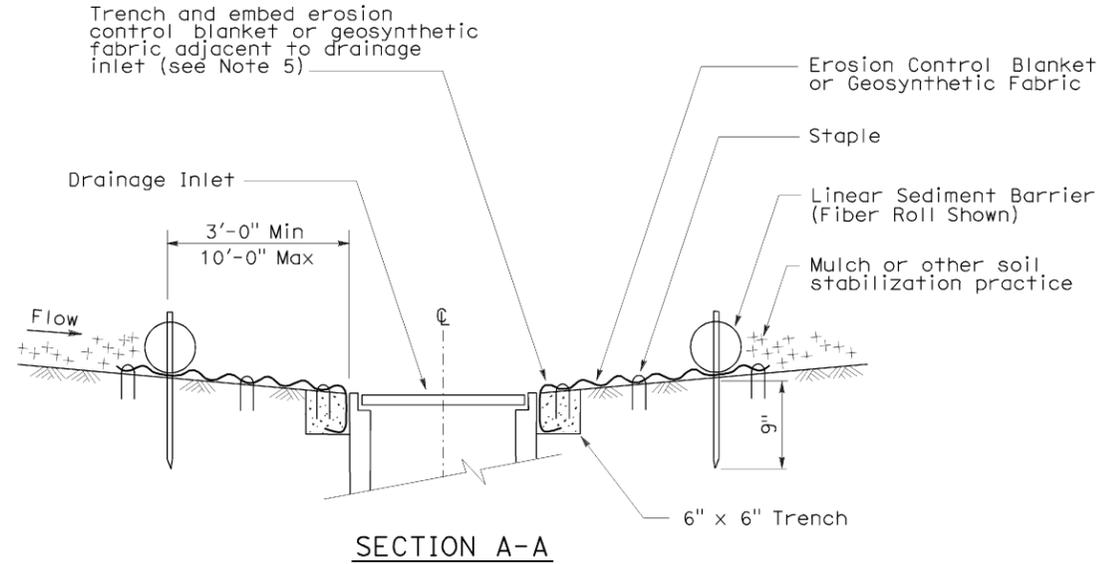
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	30	42

Robert B. Schott  
LICENSED LANDSCAPE ARCHITECT

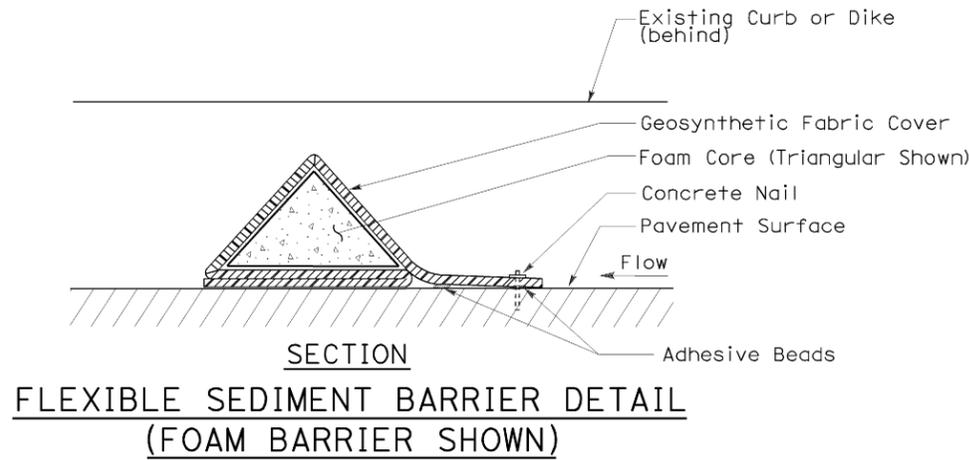
August 15, 2008  
PLANS APPROVAL DATE

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

To accompany plans dated 03-07-11



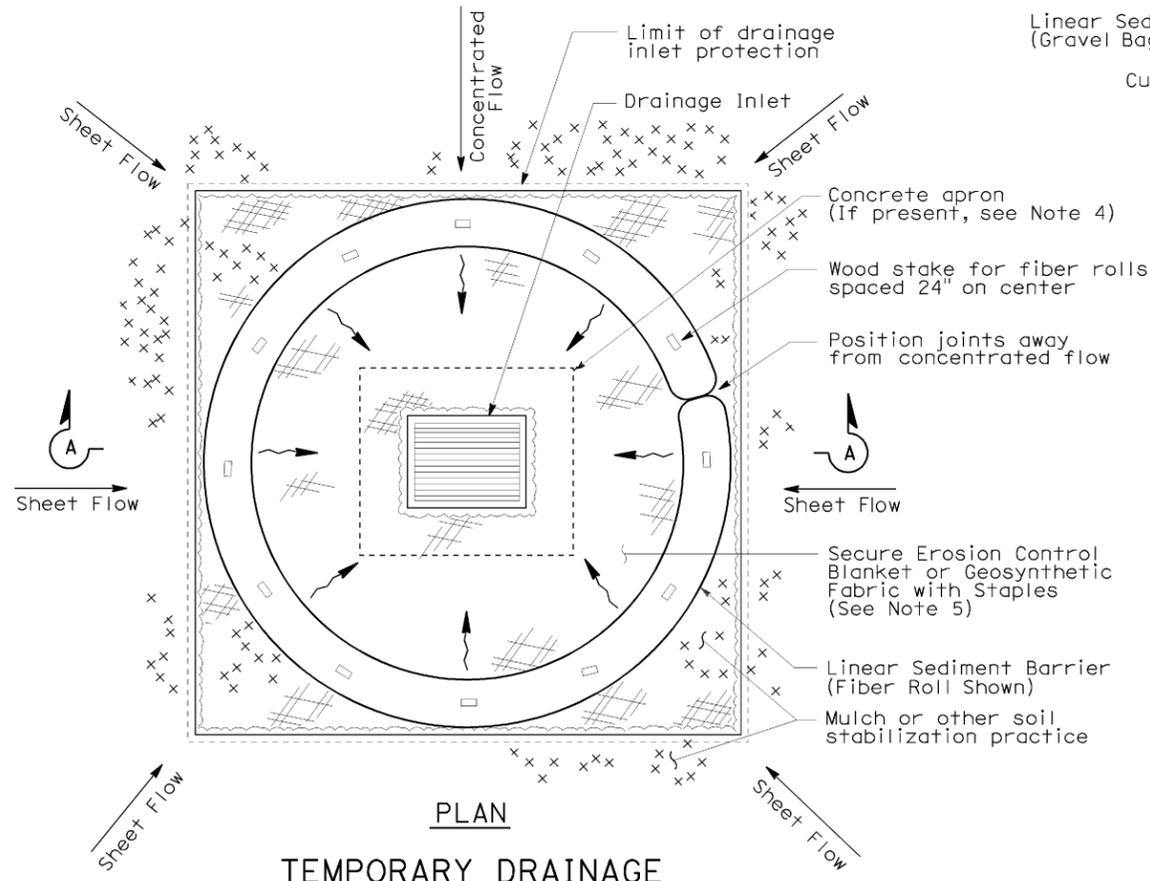
SECTION A-A



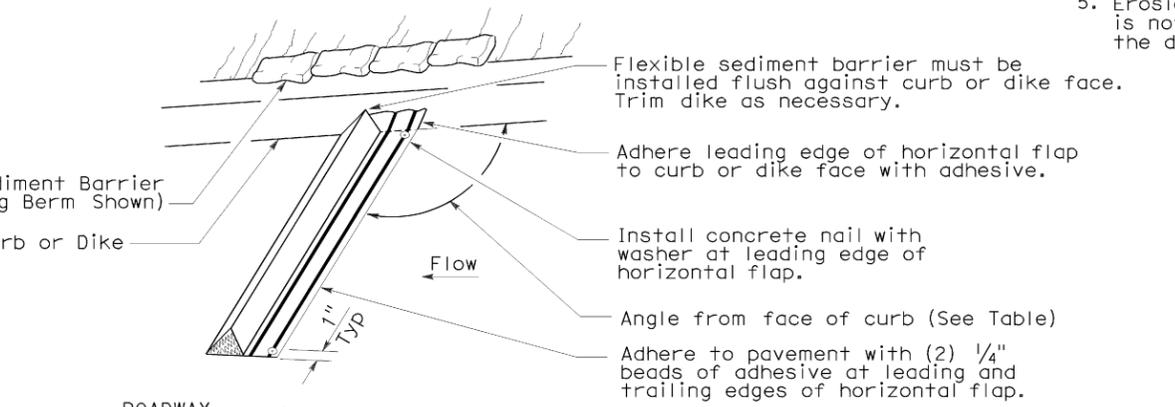
SECTION  
FLEXIBLE SEDIMENT BARRIER DETAIL  
(FOAM BARRIER SHOWN)

NOTES:

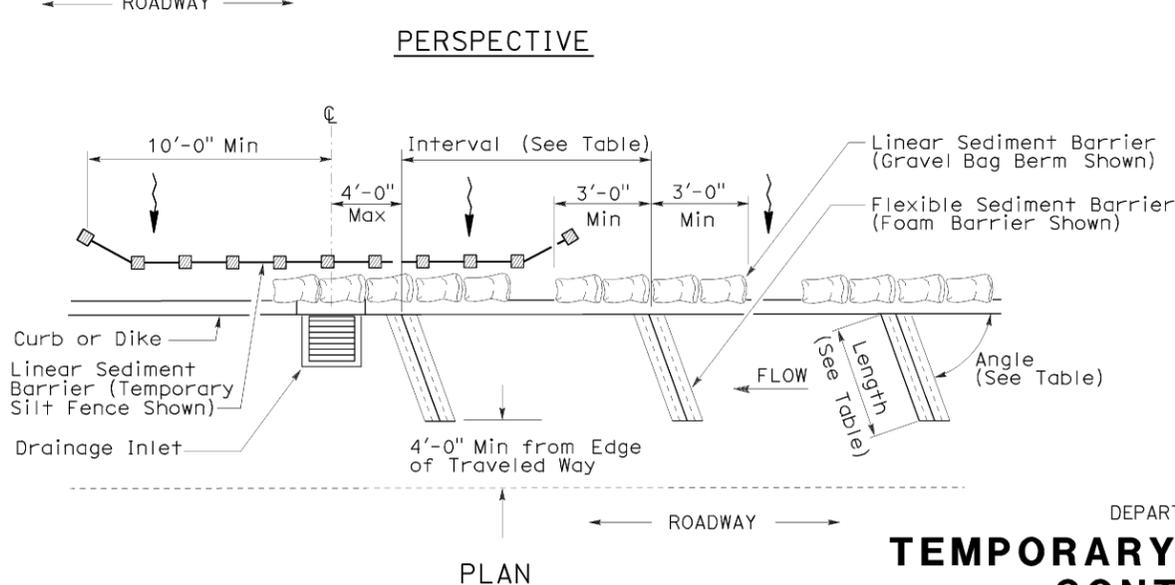
- See Standard Plan T51 for Temporary Silt Fence.
- Dimensions may vary to fit field conditions.
- Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
- Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
- Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



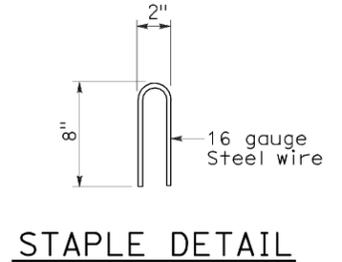
PLAN  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 4A)



PERSPECTIVE



PLAN  
TEMPORARY DRAINAGE  
INLET PROTECTION (TYPE 4B)  
FLEXIBLE SEDIMENT BARRIER



STAPLE DETAIL

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION  
CONTROL DETAILS  
(TEMPORARY DRAINAGE  
INLET PROTECTION)**

NO SCALE  
NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

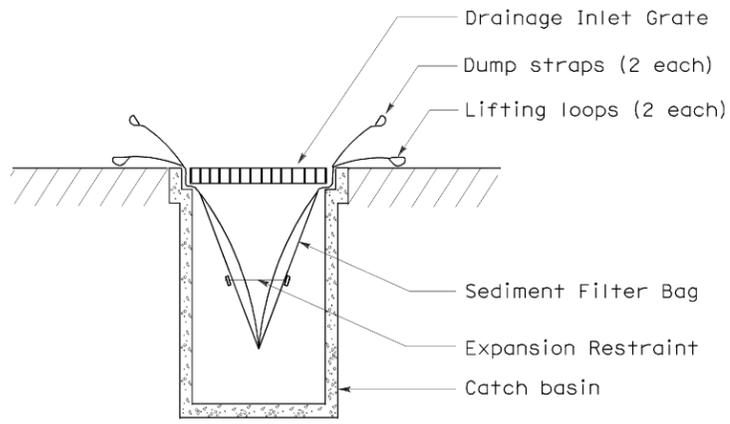
2006 NEW STANDARD PLAN NSP T63

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	31	42

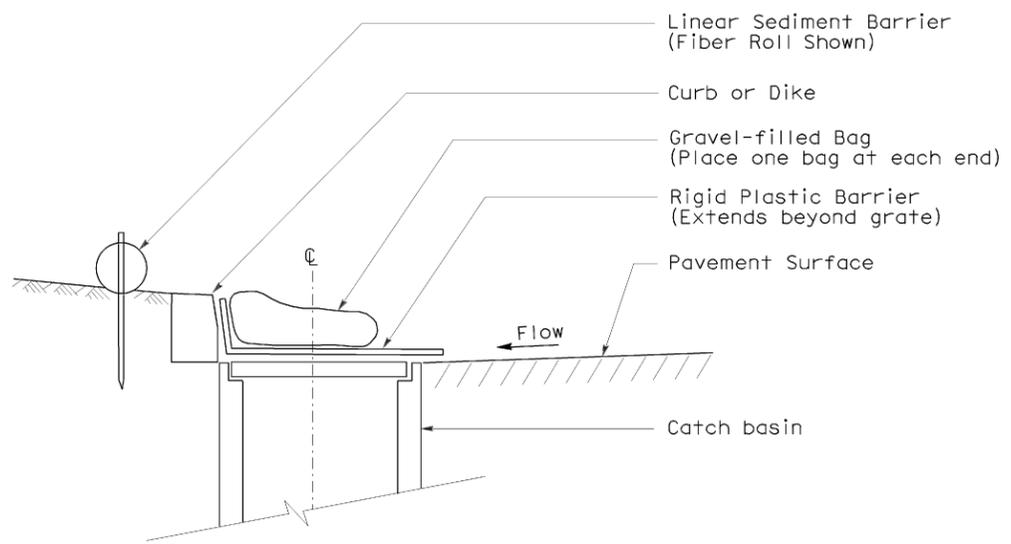
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 August 15, 2008  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



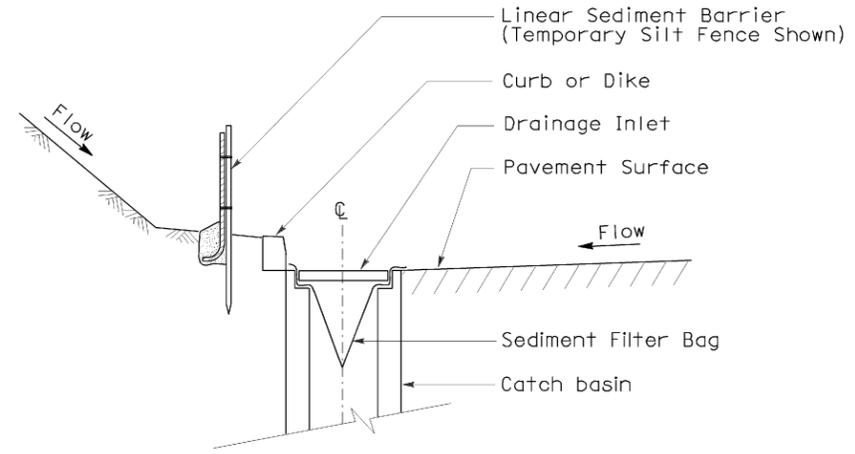
To accompany plans dated 03-07-11



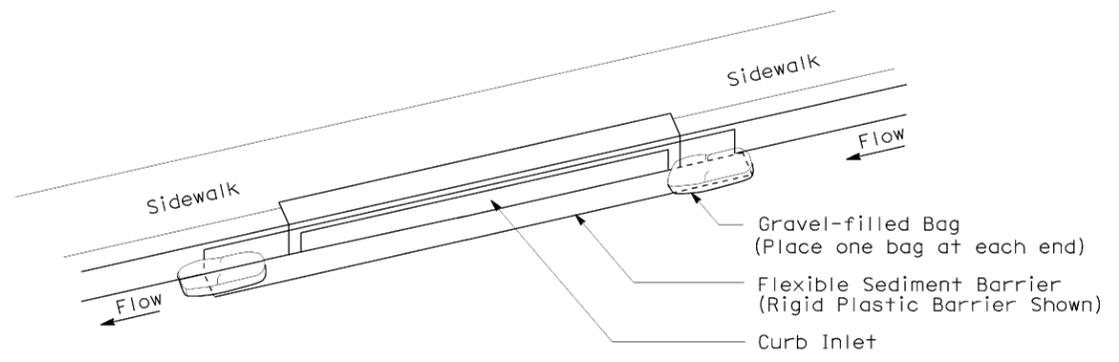
**SECTION B-B**  
**SEDIMENT FILTER BAG DETAIL**



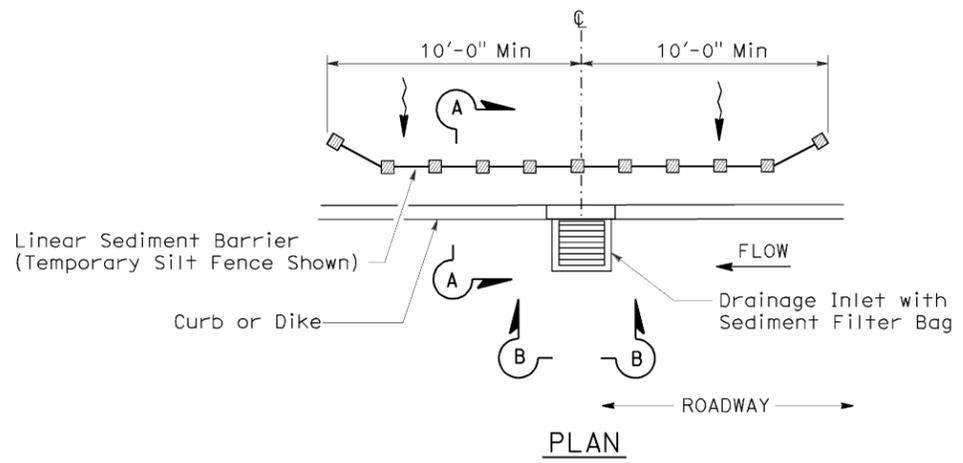
**SECTION**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A)**  
**(CATCH BASIN WITH GRATE)**



**SECTION A-A**



**PERSPECTIVE**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B)**  
**(CURB INLET WITHOUT GRATE)**



**PLAN**  
**TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5)**  
**(SEDIMENT FILTER BAG)**

**NOTES:**

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)**

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T64**

2006 NEW STANDARD PLAN NSP T64

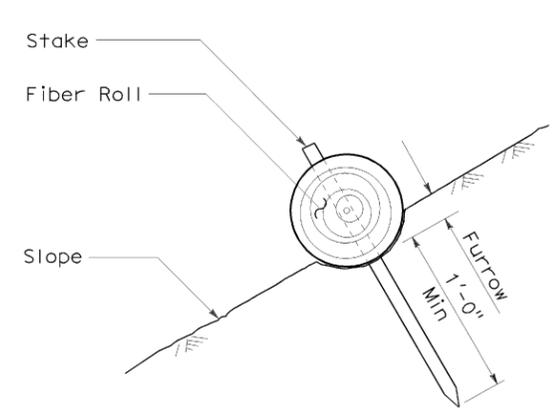
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	32	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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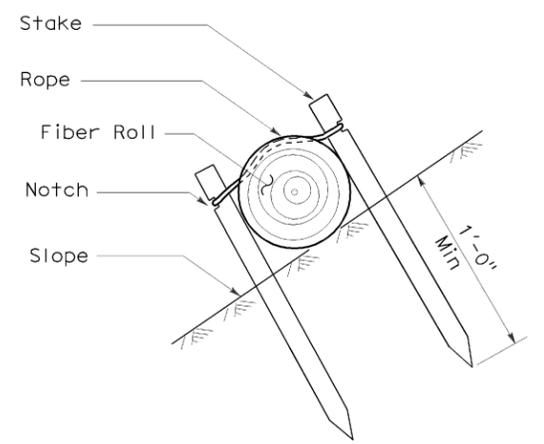
To accompany plans dated 03-07-11

**NOTES:**

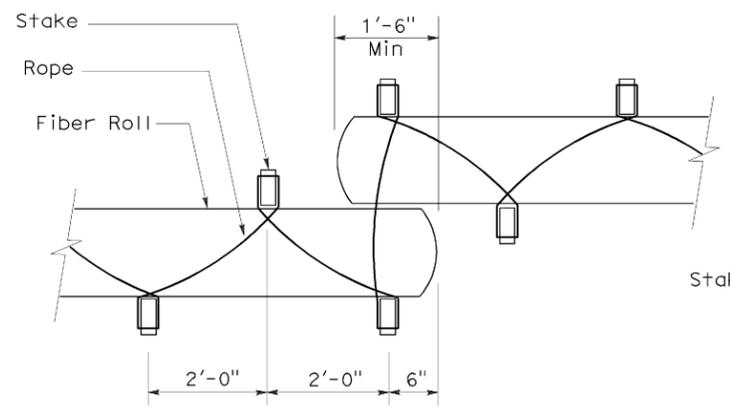
1. Fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



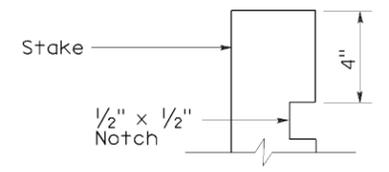
**SECTION**  
**FIBER ROLL**  
**(TYPE 1)**



**SECTION**

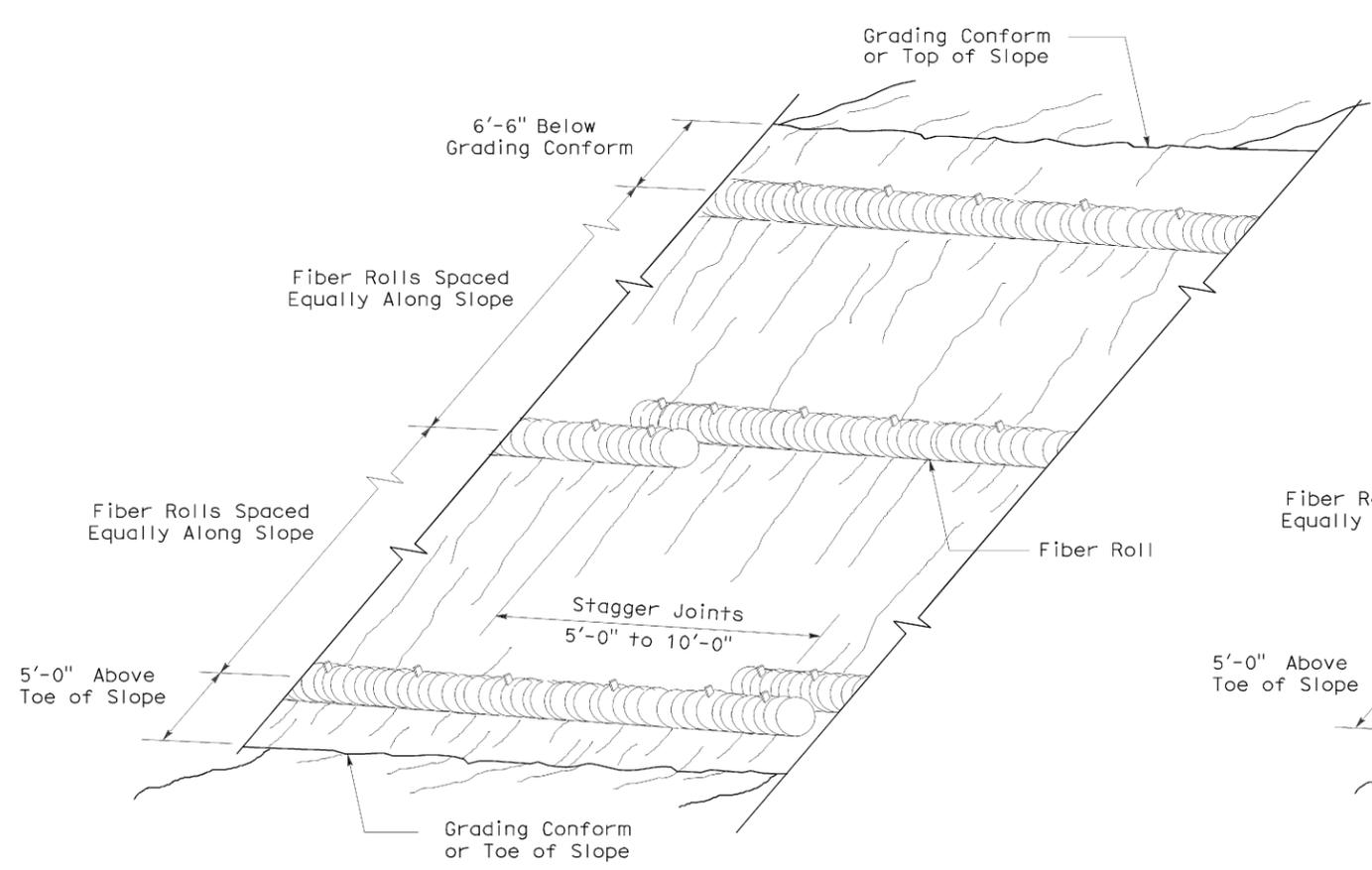


**PLAN**

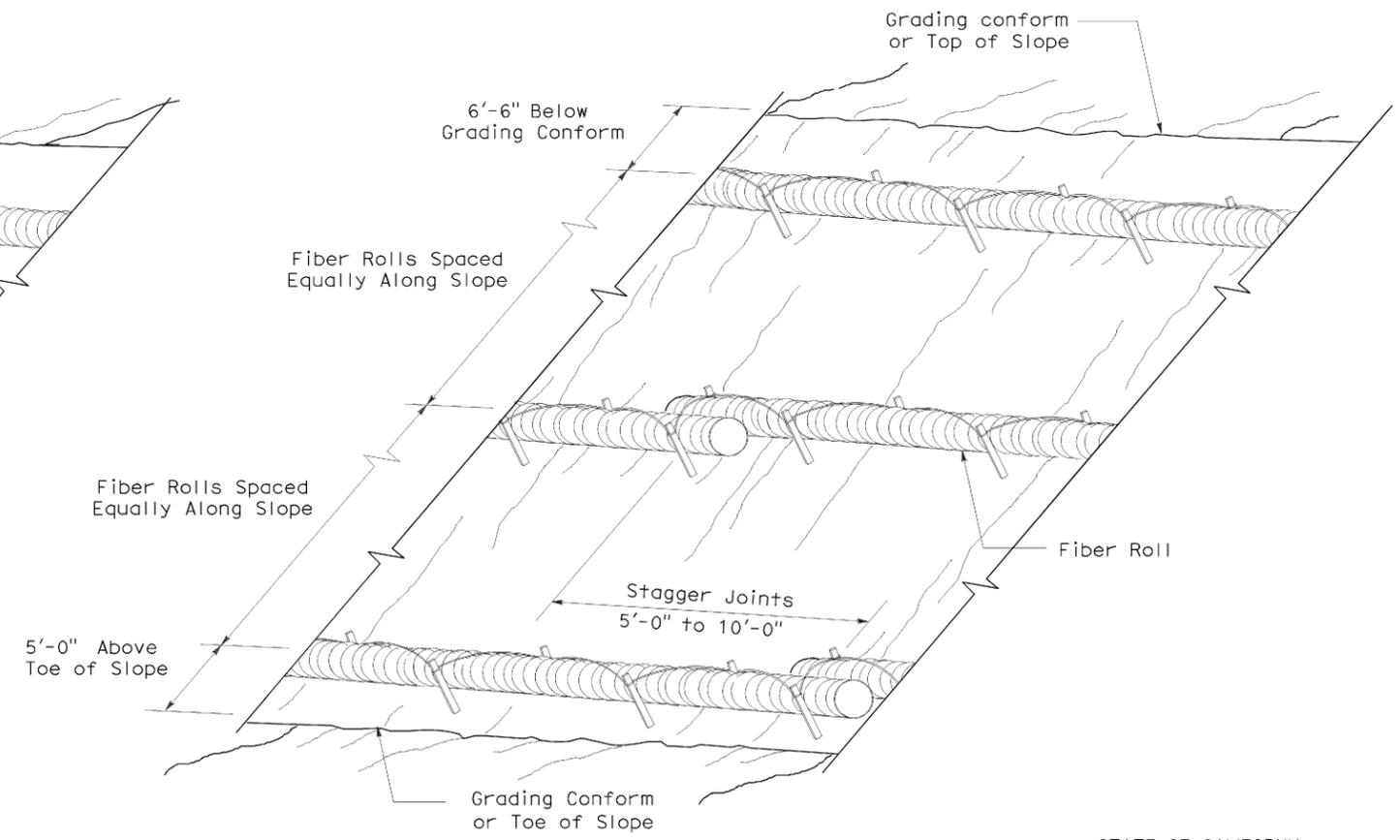


**ELEVATION**  
**STAKE NOTCH DETAIL**

**FIBER ROLL**  
**(TYPE 2)**



**PERSPECTIVE**  
**FIBER ROLL (TYPE 1)**



**PERSPECTIVE**  
**FIBER ROLL (TYPE 2)**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL DETAILS**  
**(FIBER ROLL)**

NO SCALE

RNSP H51 DATED APRIL 3, 2009 SUPERSEDES NSP H51 DATED DECEMBER 1, 2006 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED NEW STANDARD PLAN RNSP H51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	33	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT

June 5, 2009  
 PLANS APPROVAL DATE

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 2-28-11  
 5-14-09  
 STATE OF CALIFORNIA

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

To accompany plans dated 03-07-11

**A**

AB aggregate base  
 ABS acrylonitrile-butadiene-styrene  
 AC asphalt concrete  
 Adj adjacent/adjustable  
 AIC auxiliary irrigation controller  
 Alt alternative  
 AMEND amendment  
 ARV air release valve  
 AUTO automatic  
 AUX auxiliary  
 AVB atmospheric vacuum breaker

**B**

B&B balled and burlapped  
 B/B brass/bronze  
 B/B/PL brass/bronze/plastic  
 B/PL brass/plastic  
 BFM bonded fiber matrix  
 Bit Ctd bituminous coated  
 BP booster pump  
 BPA backflow preventer assembly  
 BPAE backflow preventer assembly in enclosure  
 BPE backflow preventer enclosure  
 BV ball valve

**C**

CAP corrugated aluminum pipe  
 CARV combination air release valve  
 CCA cam coupler assembly  
 CEC controller enclosure cabinet  
 CHDPE corrugated high density polyethylene  
 CL chain link  
 CNC control and neutral conductors  
 Conc concrete  
 Cond conduit  
 CSP corrugated steel pipe  
 CST center strip  
 CV check valve

**D**

Dia diameter  
 DIP ductile iron pipe  
 DN diameter nominal

**E**

EA each  
 Elect electric/electrical  
 Elev elevation  
 ENCL enclosure  
 EP edge of pavement  
 ES edge of shoulder  
 EST end strip  
 ESTB establishment  
 ETW edge of traveled way

**F**

F full circle  
 F/P full/part circle  
 FAU filter assembly unit  
 FCV flow control valve  
 FERT fertilizer  
 FG finished grade  
 FIPT female iron pipe thread  
 FIS fertilizer injector system  
 FL flow line  
 FM flow monitor  
 FS flow sensor  
 Ft foot/feet  
 FV flush valve

**G**

GAL Gallon(s)  
 Galv galvanized  
 GARV garden valve  
 GPH gallons per hour  
 GPM gallons per minute  
 GSP galvanized steel pipe  
 GV gate valve

**H**

H half circle  
 HB hose bib  
 HDPE high density polyethylene  
 HP horsepower/hinge point  
 HPL high pressure line  
 Hwy highway

**I**

IC irrigation controller  
 ICC irrigation controller(s)  
 in controller enclosure cabinet  
 ID inside diameter  
 In inches  
 IFS irrigation filtration system  
 IPS iron pipe size  
 IPT iron pipe thread  
 Irr irrigation

**L**

L length  
 LF linear foot

**M**

Max maximum  
 MBGR metal beam guard railing  
 MCV manual control valve  
 MIC master irrigation controller  
 Min minimum  
 MIPT male iron pipe thread  
 Misc miscellaneous  
 Mtl material  
 MVP maintenance vehicle pullout

**N**

NCN no common name  
 NL nozzle line  
 No. number  
 NPT national pipe thread

**O**

O/C on center  
 OD outside diameter  
 Oz ounce

**P**

P part circle  
 PB pull box  
 PCC portland cement concrete  
 PE polyethylene  
 Pkt packet  
 PL plastic  
 PLT plant/planting  
 PLT ESTB plant establishment  
 PM post mile  
 PR pressure rated  
 PRLV pressure relief valve  
 PSFM polymer stabilized fiber matrix  
 PSI pounds per square inch  
 PRV pressure reducing valve  
 PVC polyvinyl chloride  
 Pvmnt pavement

**Q**

Q quarter circle  
 QCV quick coupling valve

**NOTE:**  
 FOR ADDITIONAL ABBREVIATIONS,  
 SEE STANDARD PLANS A10A AND A10B.

**R**

R radius  
 RCP reinforced concrete pipe  
 RCV remote control valve  
 RCVM remote control valve (master)  
 RCVMF remote control valve (master) w/ flow meter  
 RCW recycled/reclaimed water  
 RECP rolled erosion control product  
 REQ required  
 R/W right of way

**S**

S slip  
 SCC sprinkler control conduit  
 SCH schedule  
 SF state-furnished  
 Shld shoulder  
 SQFT square foot/feet  
 SQYD square yard(s)  
 SST side strip  
 Sta station  
 Std standard  
 SW sidewalk/sound wall

**T**

T third circle/thread  
 TLS truck loading standpipe  
 TQ three quarter circle  
 TRM turf reinforcement mat  
 TRVD traveled  
 TT two third circle  
 Typ typical

**U**

UG underground

**V**

VAU valve assembly unit

**W**

W width  
 W/ with  
 WM water meter  
 WS wye strainer  
 WSP welded steel pipe  
 WWM welded wire mesh

**PLANTING AND IRRIGATION  
 ABBREVIATIONS**

NO SCALE

RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1  
 DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP H1**

2006 REVISED STANDARD PLAN RSP H1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	34	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT

June 5, 2009  
 PLANS APPROVAL DATE

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 2-28-11  
 5-14-09  
 STATE OF CALIFORNIA

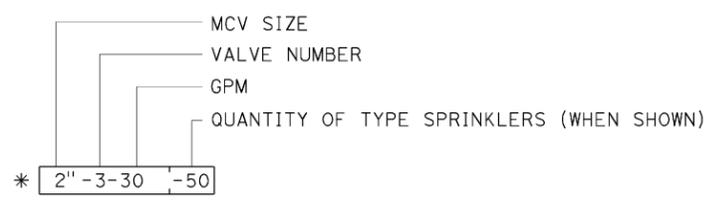
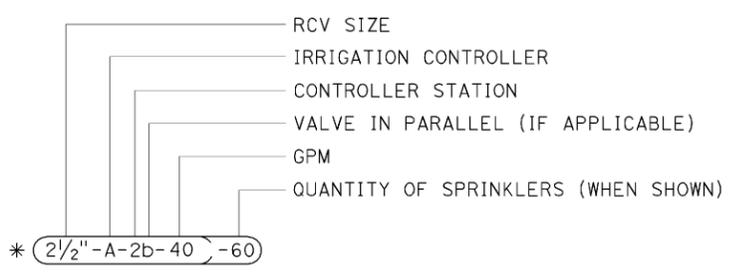
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 03-07-11

EXISTING	PROPOSED	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC)/ IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		SPRINKLER CONTROL CONDUIT (SCC)
		IRRIGATION CROSSOVER
		EXTEND IRRIGATION CROSSOVER
		IRRIGATION SLEEVE
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (LATERAL)
		PLASTIC PIPE (IRRIGATION LINE)
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		MANUAL CONTROL VALVE (MCV)
		VALVE ASSEMBLY UNIT (VAU)
		WYE STRAINER (WS)
		FILTER ASSEMBLY UNIT (FAU)
		GATE VALVE (GV)
		BALL VALVE (BV)

EXISTING	PROPOSED	ITEM DESCRIPTION
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		PRESSURE REDUCING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		NOZZLE LINE W/TURNING UNION
		IRRIGATION SYSTEM
		IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING

**VALVE CODE**



\* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PLANTING AND IRRIGATION SYMBOLS**  
 NO SCALE

RSP H2 DATED JUNE 5, 2009 SUPERSEDES RSP H2 DATED MARCH 7, 2008 AND STANDARD PLAN H2 DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP H2**

2006 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	35	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT

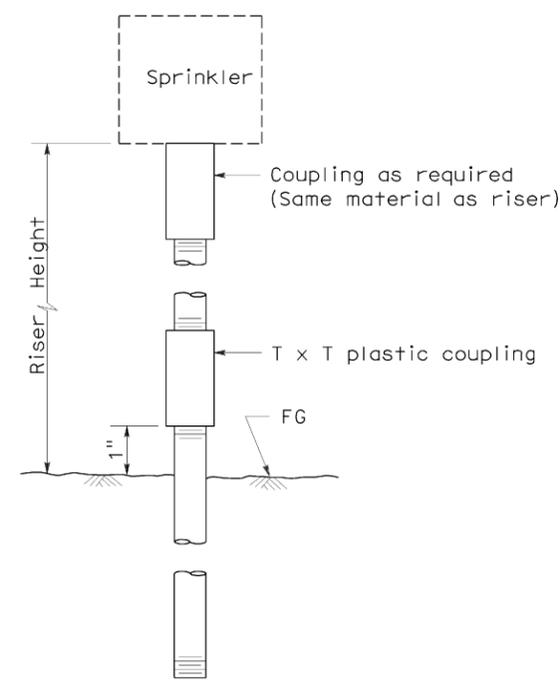
June 5, 2009  
 PLANS APPROVAL DATE

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 2-28-11  
 5-14-09  
 STATE OF CALIFORNIA

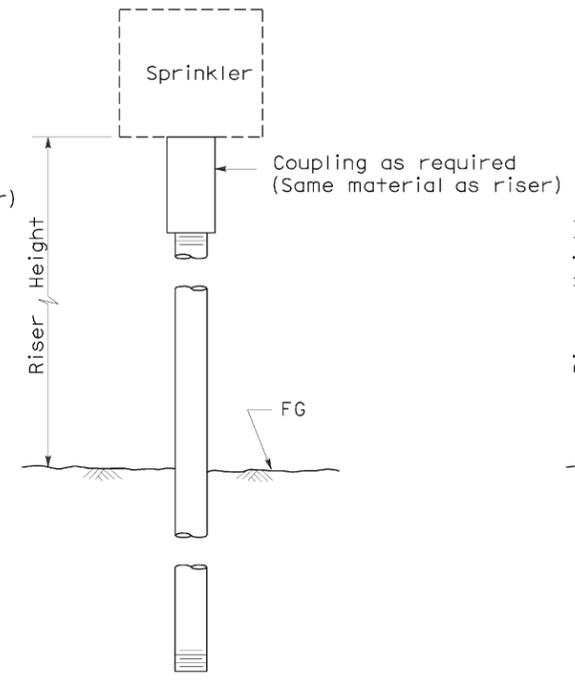
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 03-07-11

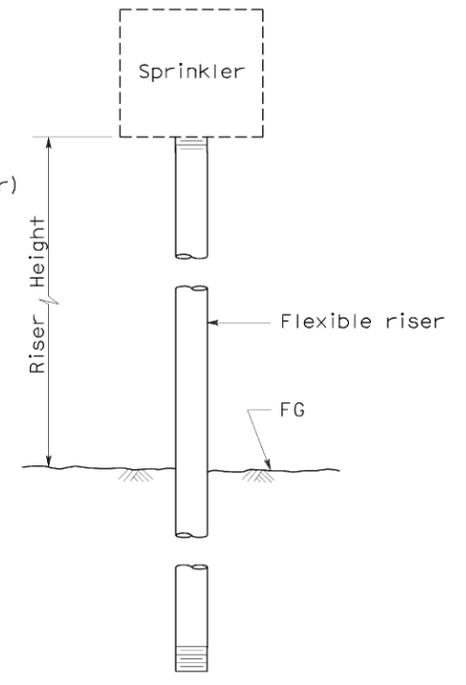
2006 REVISED STANDARD PLAN RSP H5



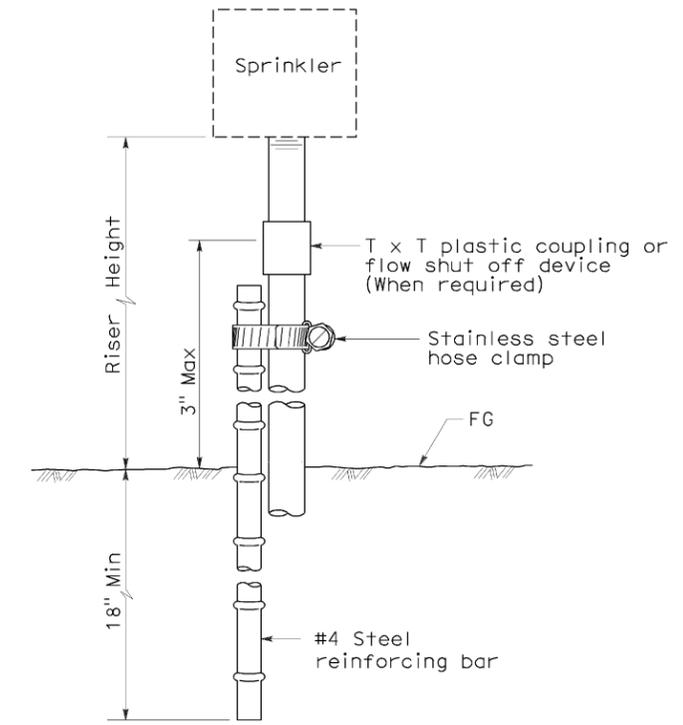
ELEVATION  
RISER TYPE I



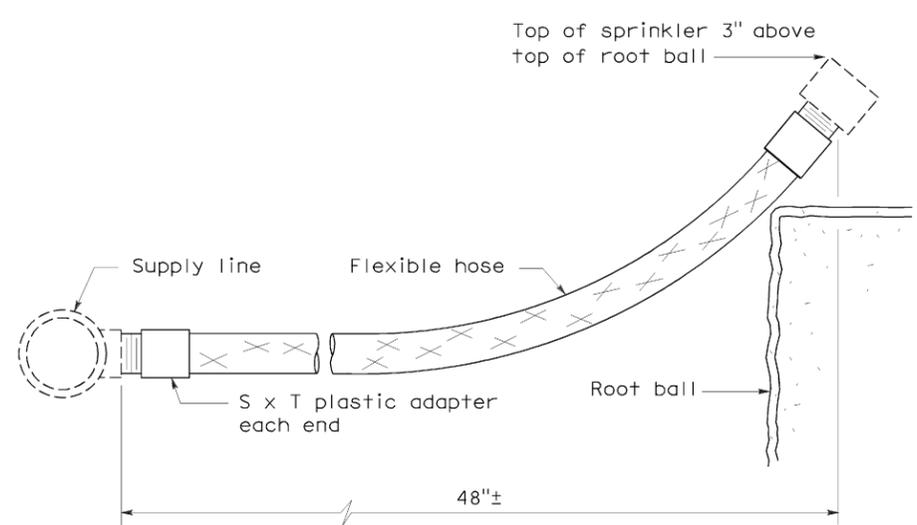
ELEVATION  
RISER TYPE II



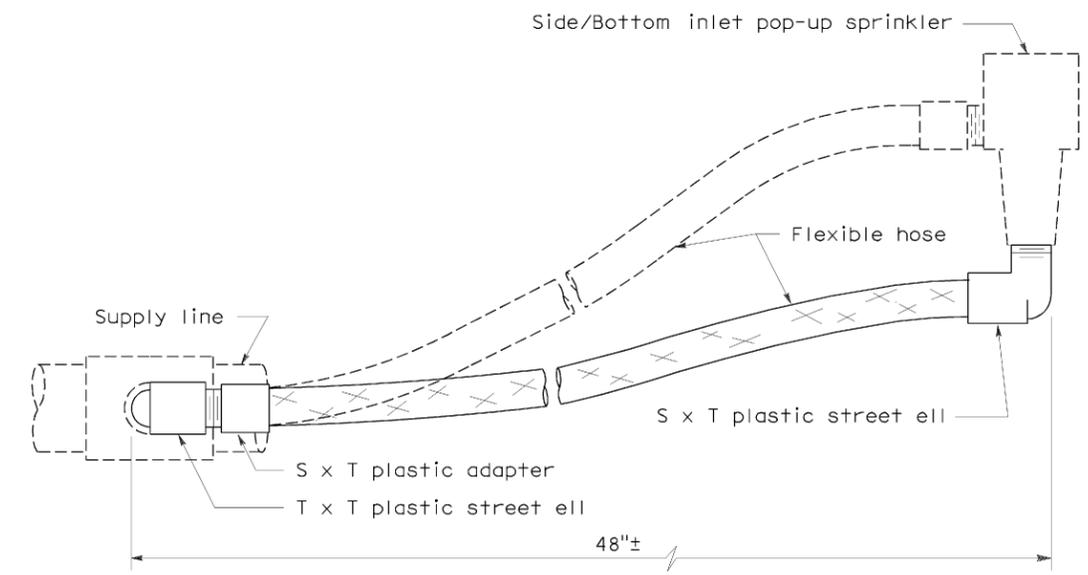
ELEVATION  
RISER TYPE III



ELEVATION  
RISER TYPE IV



ELEVATION  
RISER TYPE V



ELEVATION  
RISER TYPE VI

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**PLANTING AND IRRIGATION  
 DETAILS**

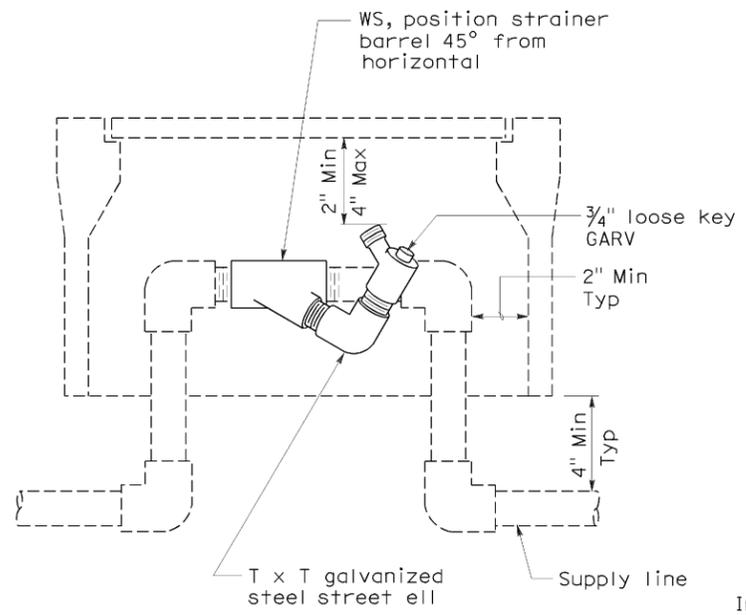
NO SCALE

RSP H5 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H5  
 DATED MAY 1, 2006 - PAGE 205 OF THE STANDARD PLANS BOOK DATED MAY 2006.

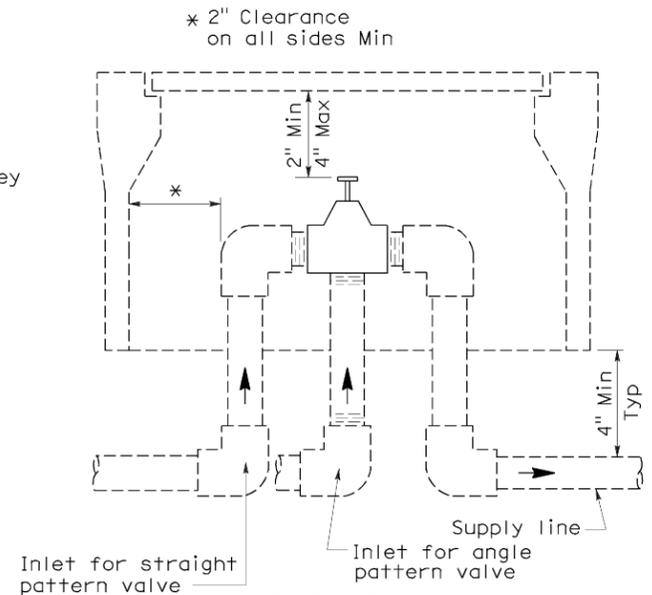
**REVISED STANDARD PLAN RSP H5**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	36	42

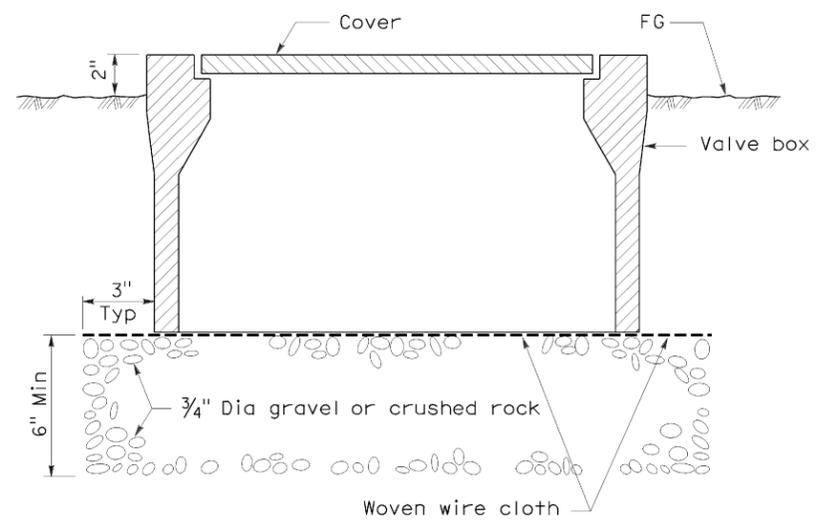
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 June 5, 2009  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



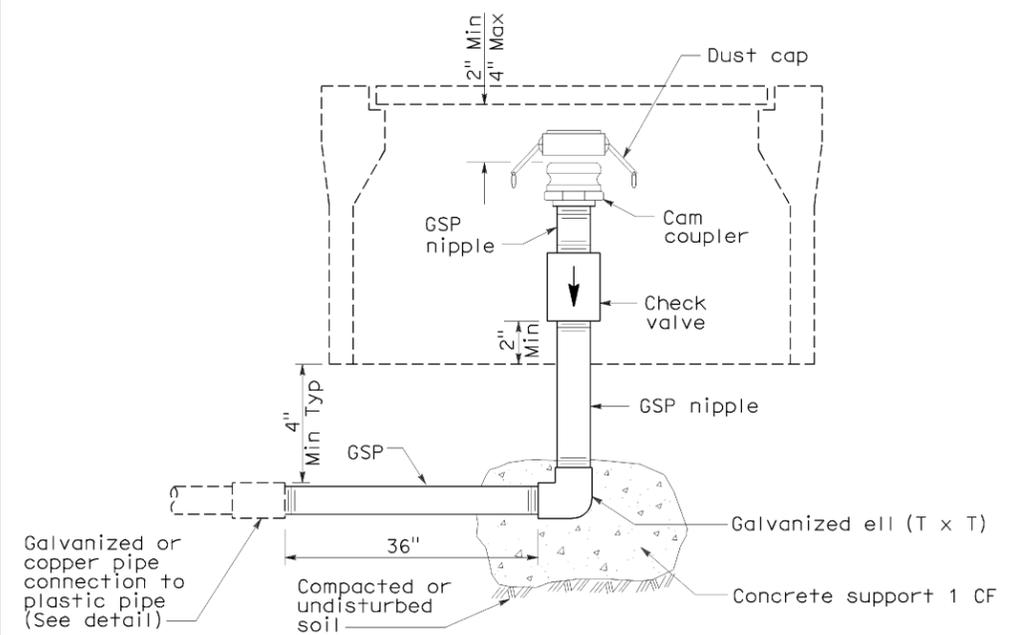
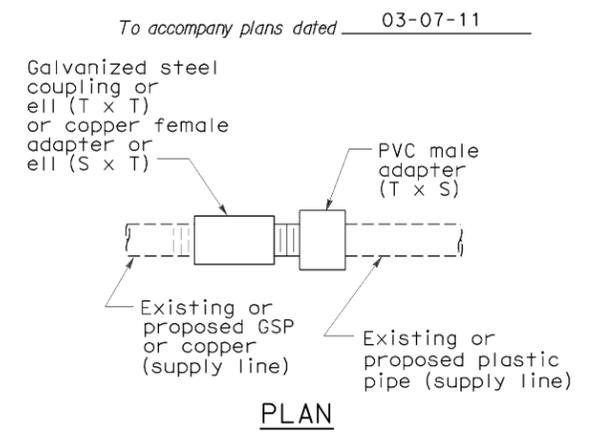
**ELEVATION  
WYE STRAINER**



**ELEVATION  
VALVE**

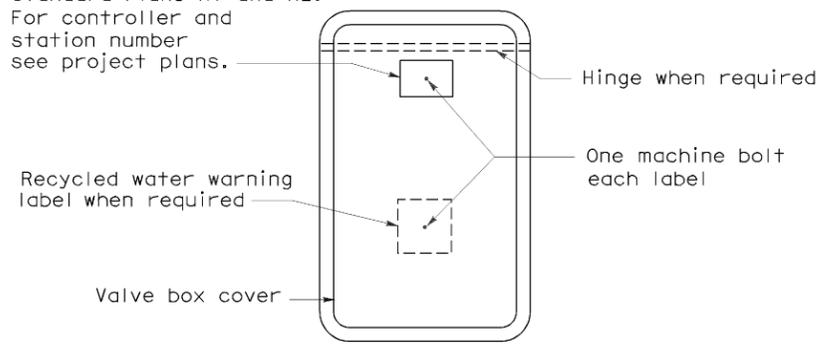


**SECTION  
VALVE BOX**

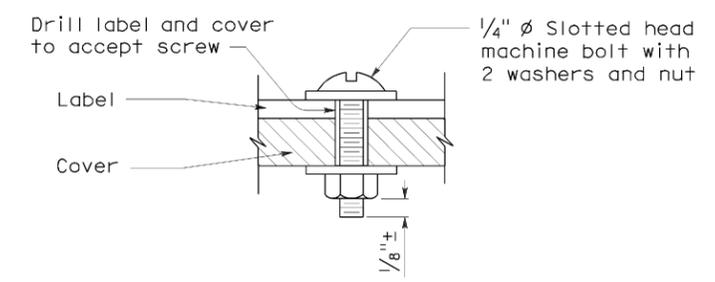


**ELEVATION  
CAM COUPLER ASSEMBLY**

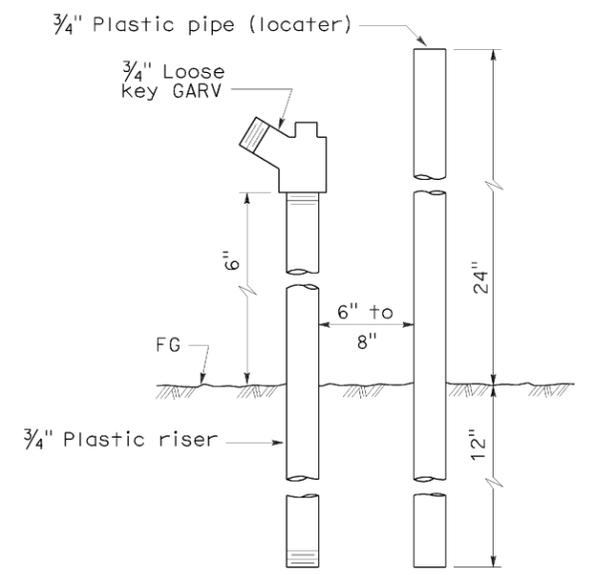
Identification label:  
 For abbreviations see Revised Standard Plans H1 and H2.  
 For controller and station number see project plans.



**PLAN**



**SECTION  
VALVE BOX IDENTIFICATION**



**ELEVATION  
FLUSH VALVE**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**PLANTING AND IRRIGATION  
DETAILS**

NO SCALE

RSP H7 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H7  
 DATED MAY 1, 2006 - PAGE 207 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP H7**

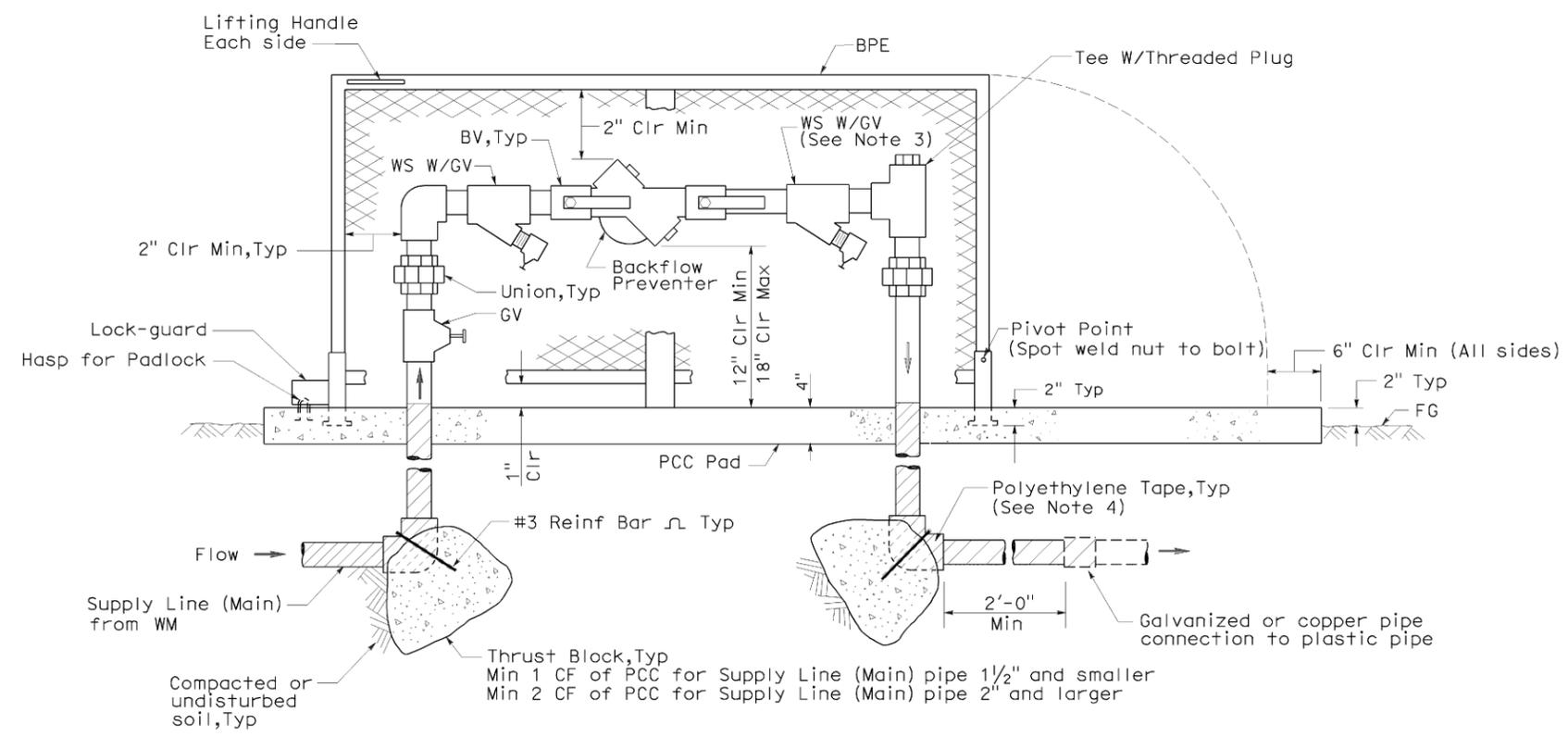
2006 REVISED STANDARD PLAN RSP H7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	37	42

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 June 5, 2009  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



To accompany plans dated 03-07-11

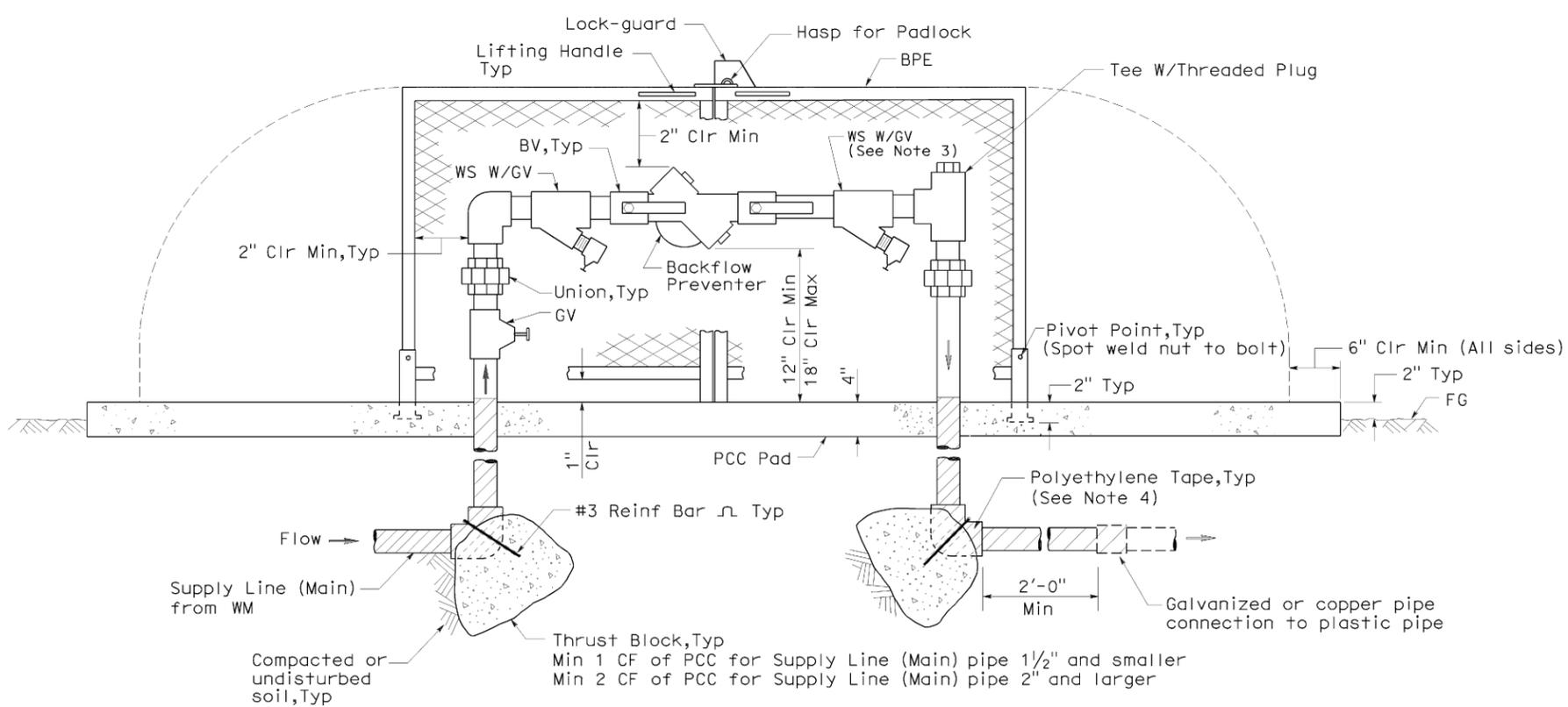


**ELEVATION**

**BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (ONE PIECE)**

**NOTES:**

1. Wye strainer and fittings must be the same size as the backflow preventer shown on the plans.
2. Backflow preventer assembly manifold pipe must be the same pipe as the supply line (main) pipe to be installed from the water meter to the backflow preventer assembly.
3. Wye strainer location shown downstream of the backflow preventer is for District 11 projects only.
4. All metal in contact with soil and Portland Cement Concrete must be polyethylene wrapped using 2" wide plastic backed adhesive tape 20 mil thick with 1/2" overlap.



**ELEVATION**

**BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (TWO PIECE)**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PLANTING AND IRRIGATION  
DETAILS**

NO SCALE

RSP H8 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H8  
DATED MAY 1, 2006 - PAGE 208 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP H8**

2006 REVISED STANDARD PLAN RSP H8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	38	42

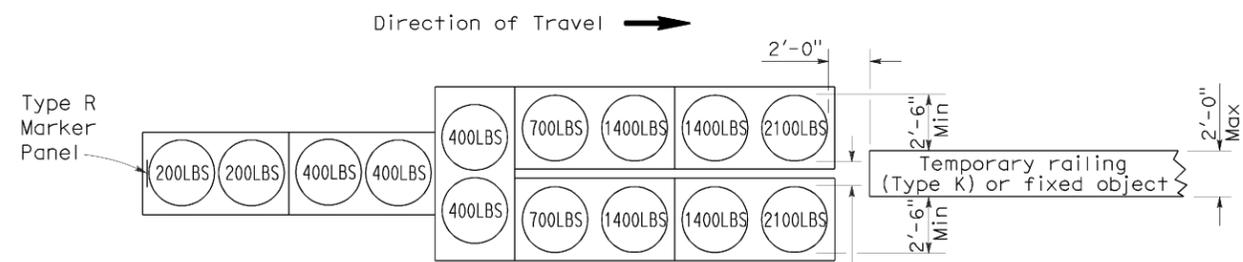
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

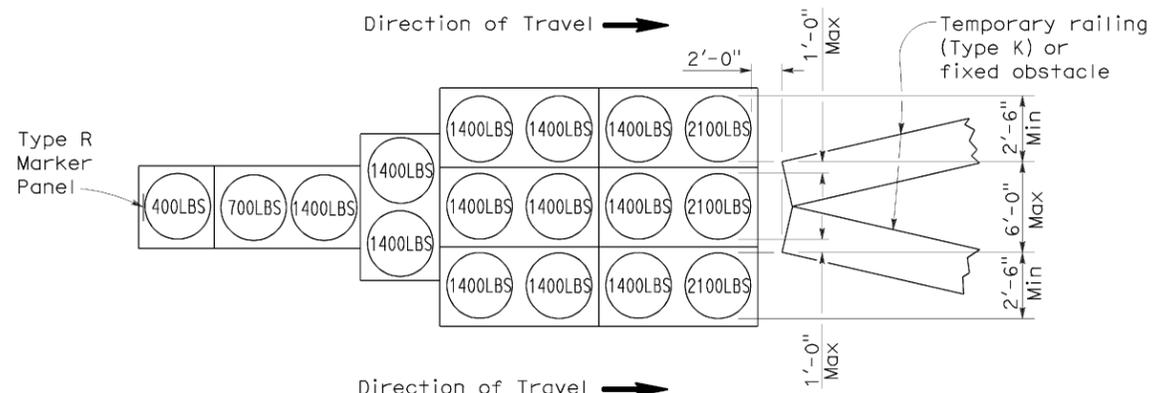
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To accompany plans dated 03-07-11



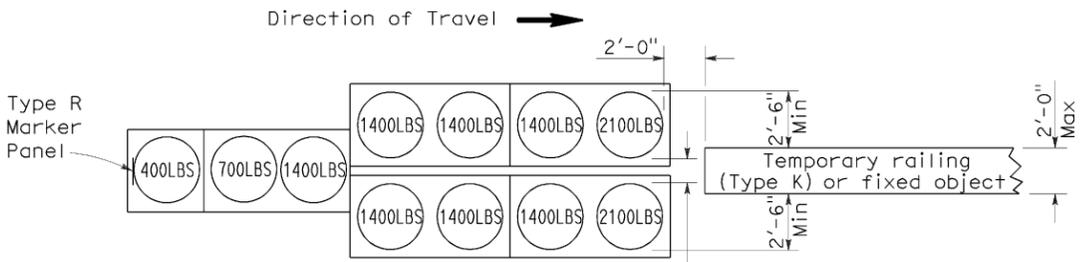
**ARRAY 'TU14'**

Approach speed 45 mph or more



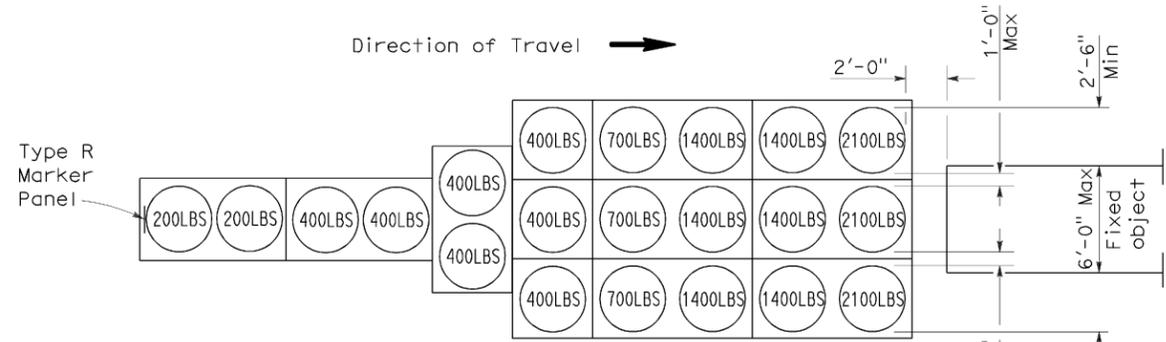
**ARRAY 'TU17'**

Approach speed less than 45 mph



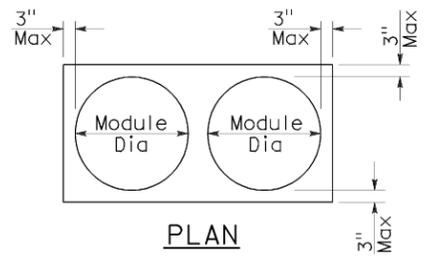
**ARRAY 'TU11'**

Approach speed less than 45 mph

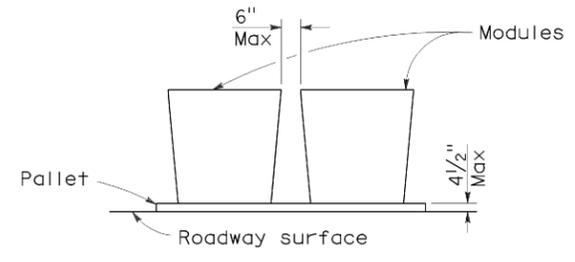


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**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**

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	39	42

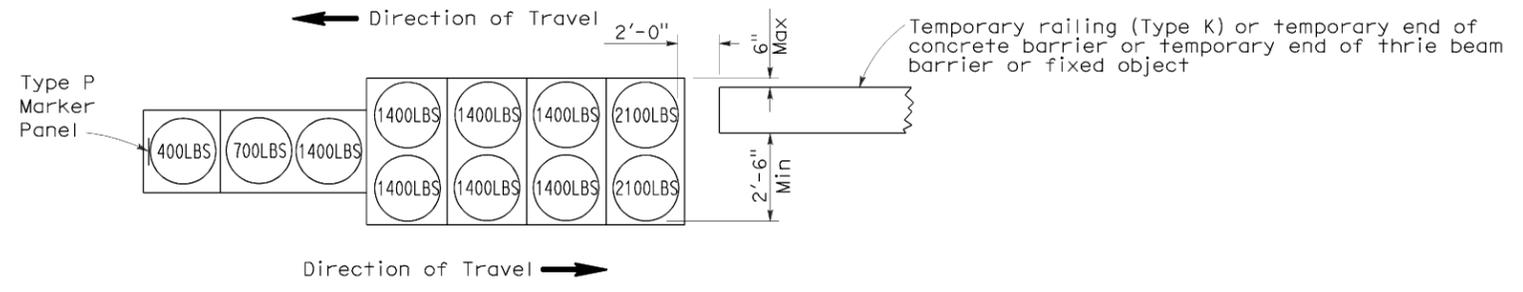
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

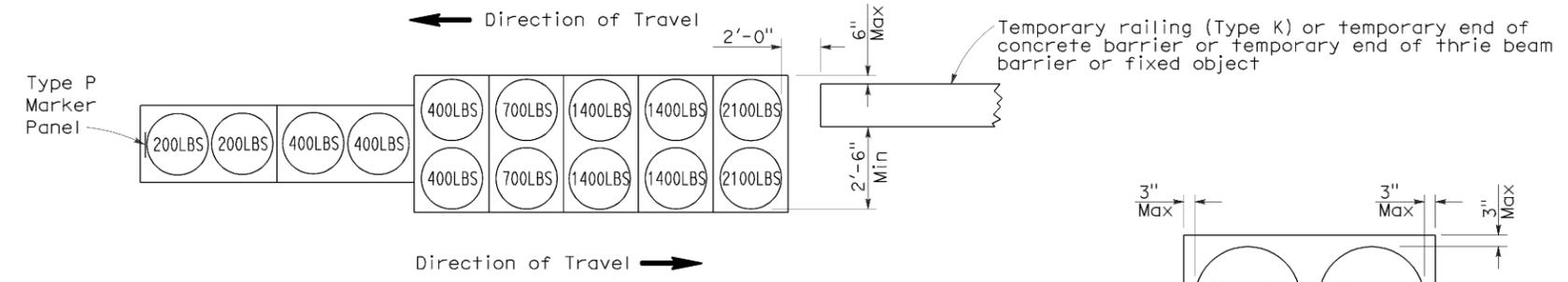
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To accompany plans dated 03-07-11



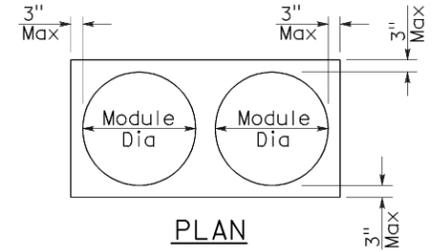
**ARRAY 'TB11'**

Approach speed less than 45 mph

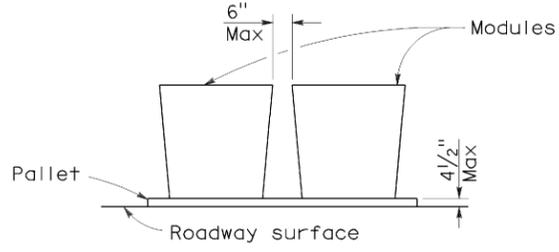


**ARRAY 'TB14'**

Approach speed 45 mph or more



PLAN



ELEVATION

**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
08	Riv	15	40.0/41.3	40	42

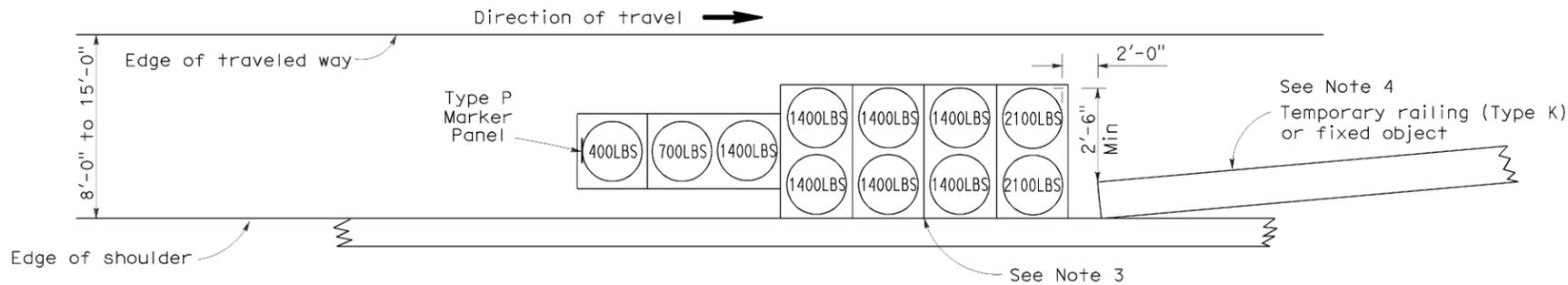
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

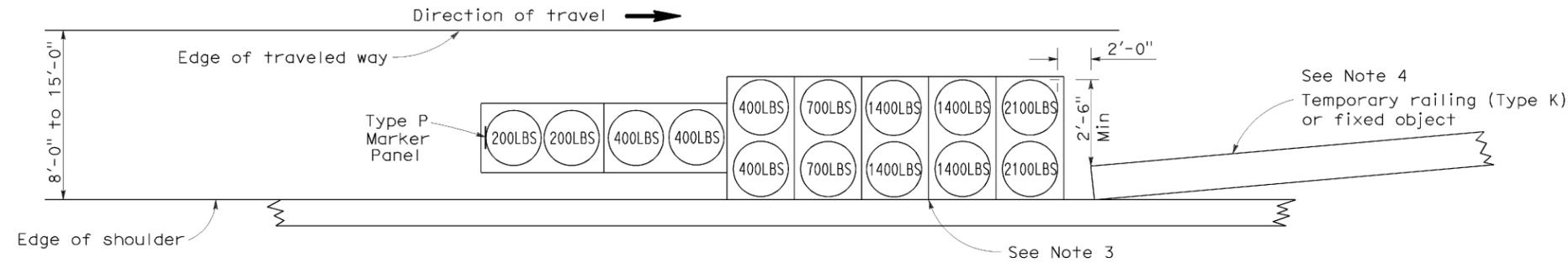
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

REGISTERED PROFESSIONAL ENGINEER  
*Randell D. Hiatt*  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 03-07-11



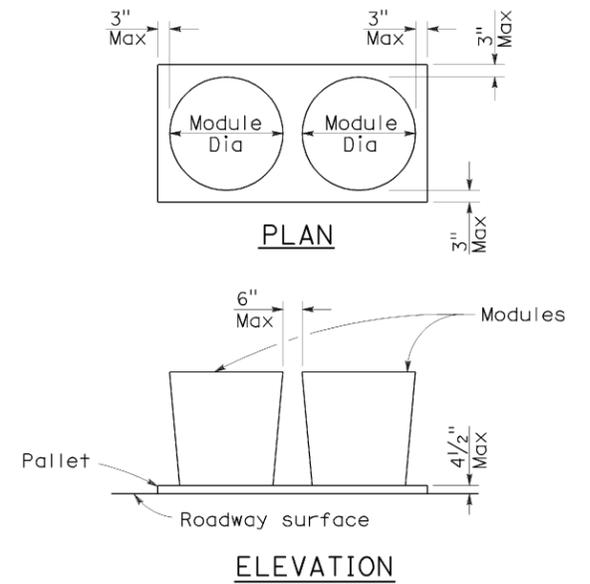
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**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**

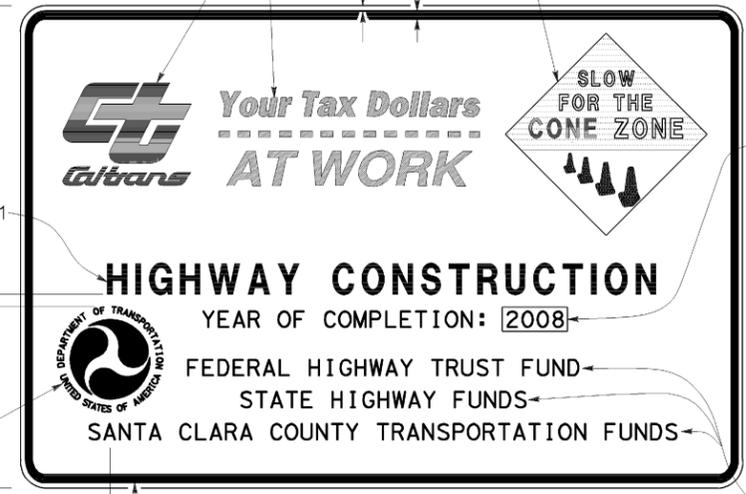
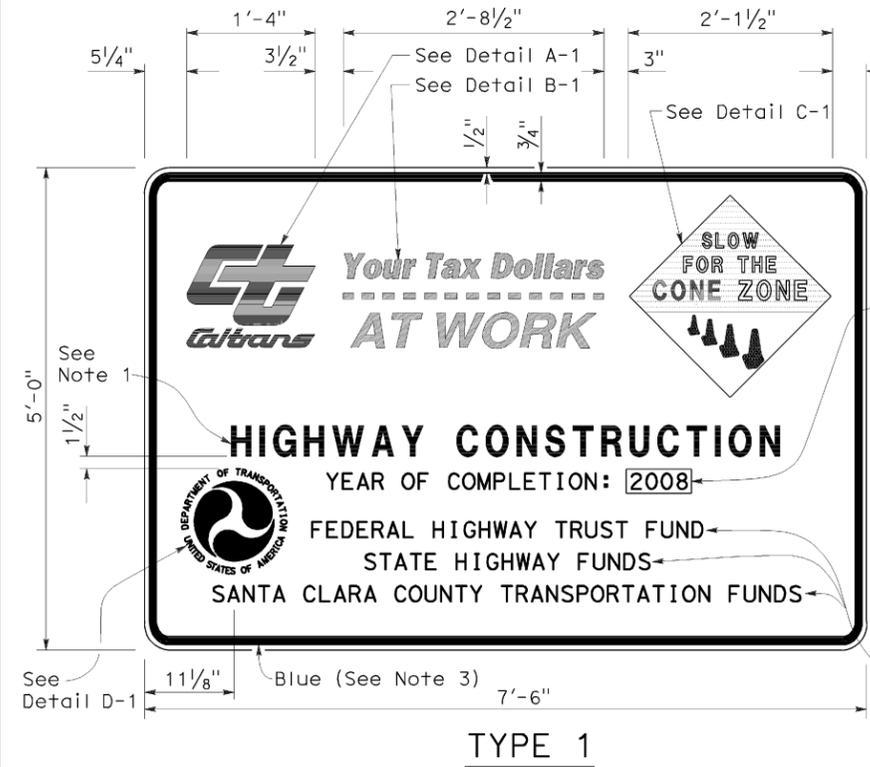
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	41	42

*Greg W. Edwards*  
 REGISTERED CIVIL ENGINEER  
 November 17, 2006  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 Greg W. Edwards  
 No. C36386  
 Exp. 6-30-08  
 CIVIL  
 STATE OF CALIFORNIA

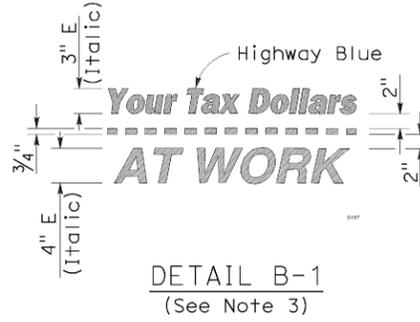
To accompany plans dated 03-07-11



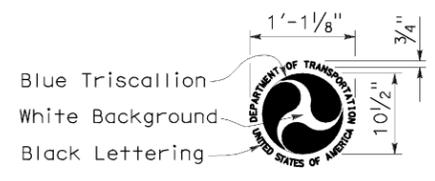
**TYPE 1**



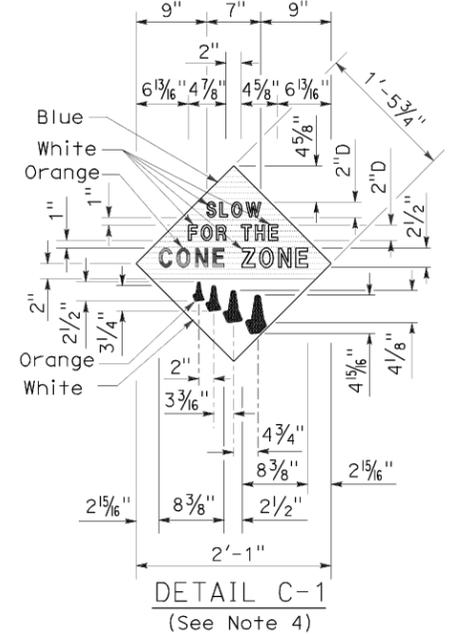
**DETAIL A-1**



**DETAIL B-1**  
(See Note 3)



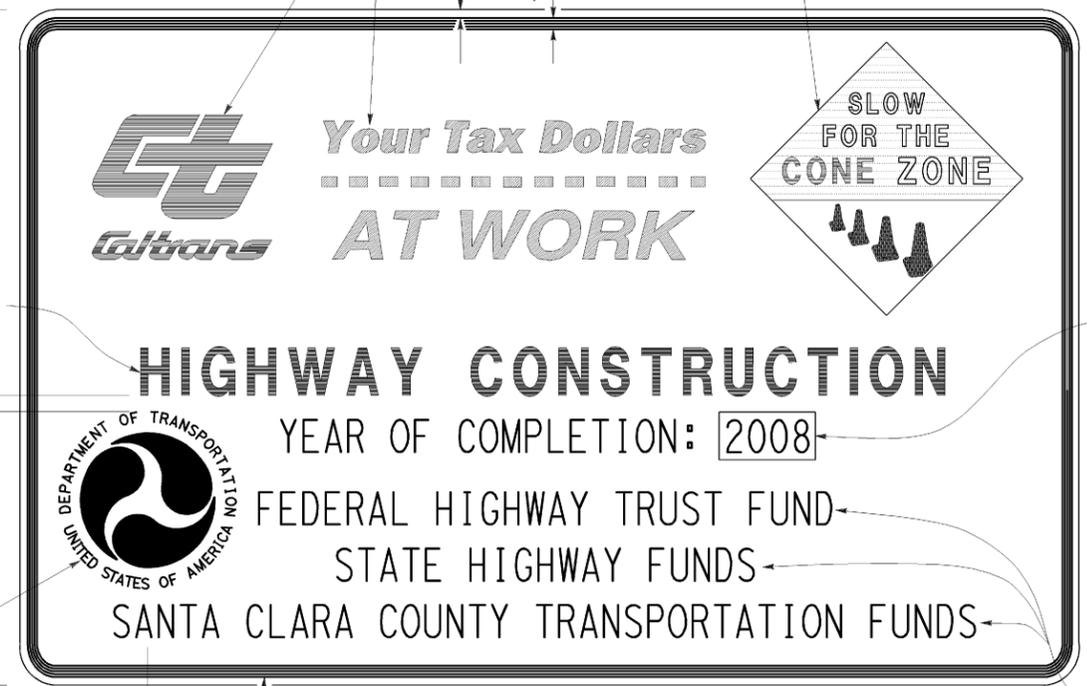
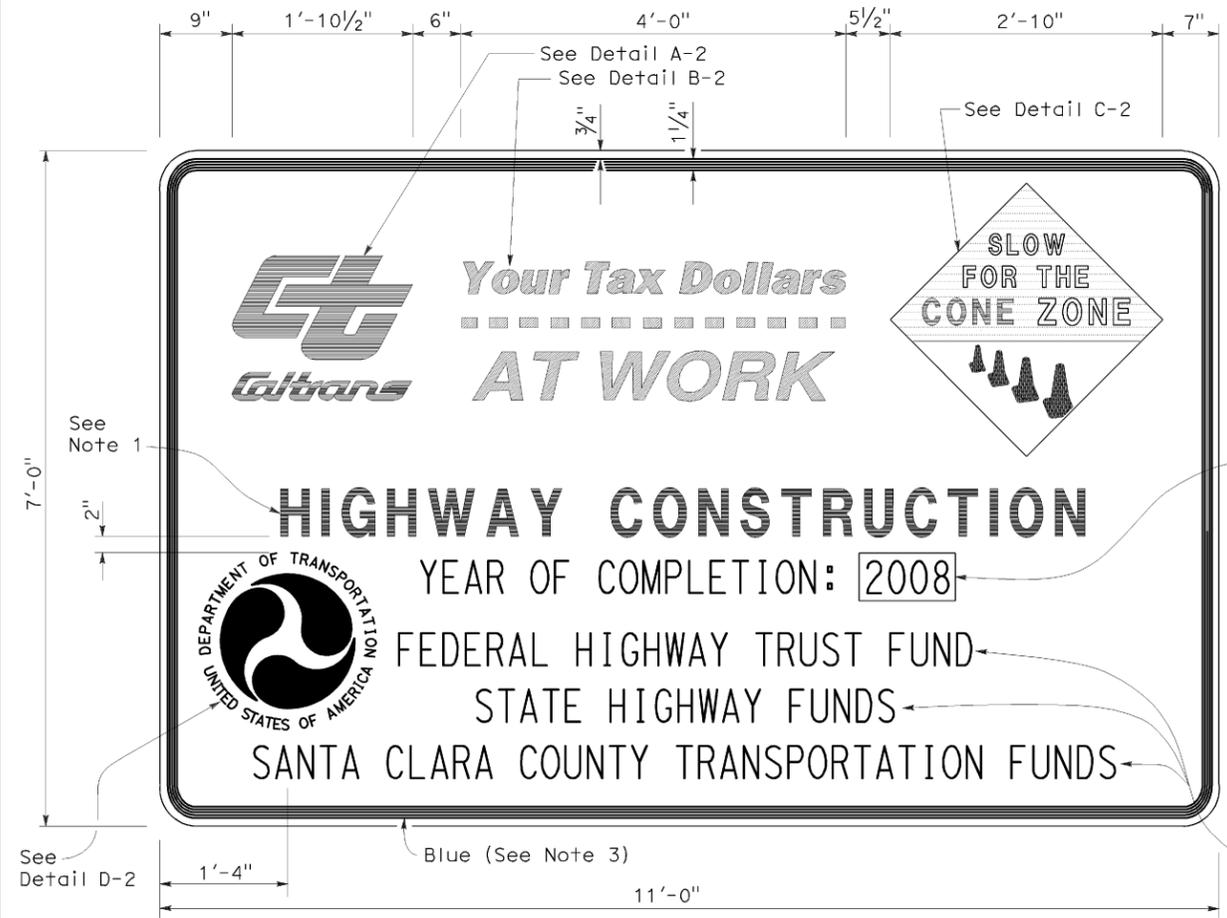
**DETAIL D-1**  
(See Note 6)



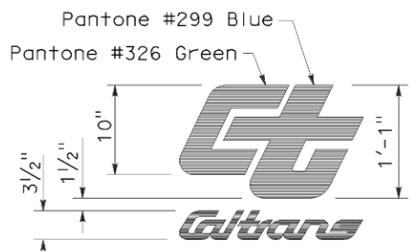
**DETAIL C-1**  
(See Note 4)

**NOTES:**

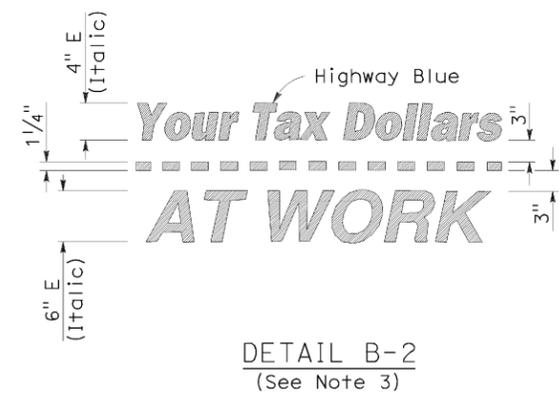
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, "SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



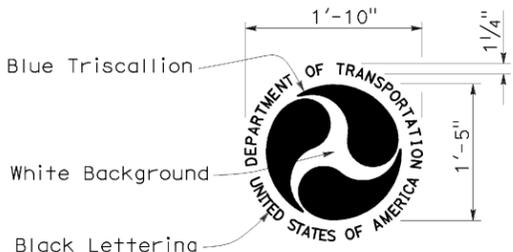
**TYPE 2**



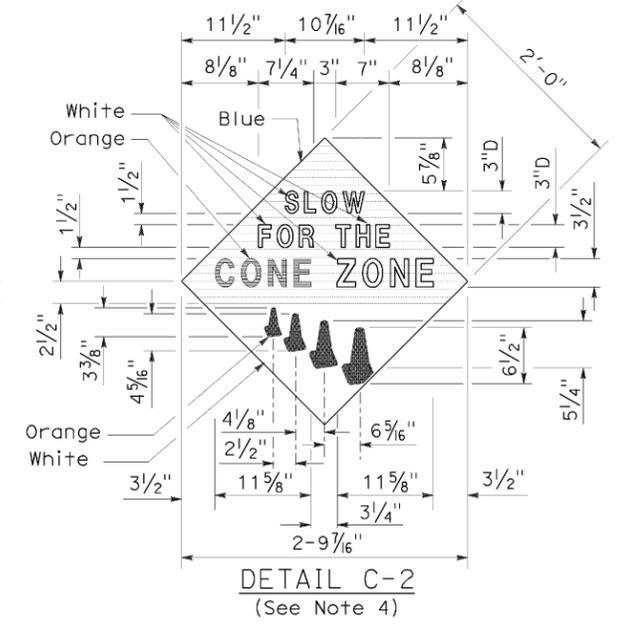
**DETAIL A-2**



**DETAIL B-2**  
(See Note 3)



**DETAIL D-2**  
(See Note 6)



**DETAIL C-2**  
(See Note 4)

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS**

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7 DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

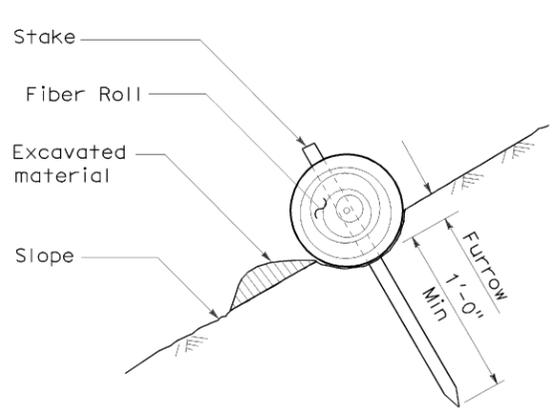
**REVISED STANDARD PLAN RSP T7**

2006 REVISED STANDARD PLAN RSP T7

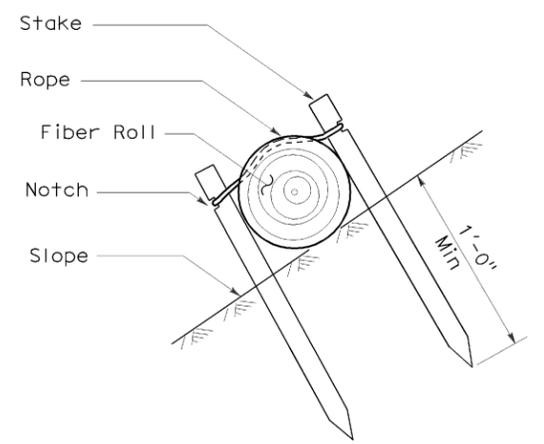
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	15	40.0/41.3	42	42

*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
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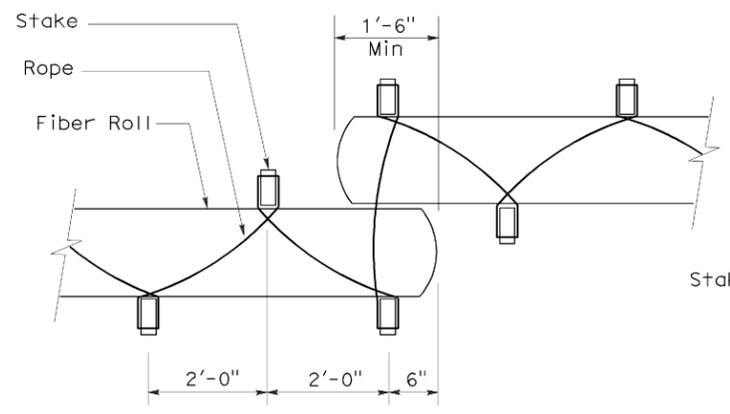
To accompany plans dated 03-07-11



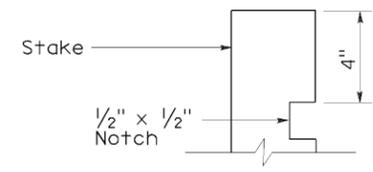
**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 1)**



**SECTION**  
**TEMPORARY FIBER ROLL**  
**(TYPE 2)**



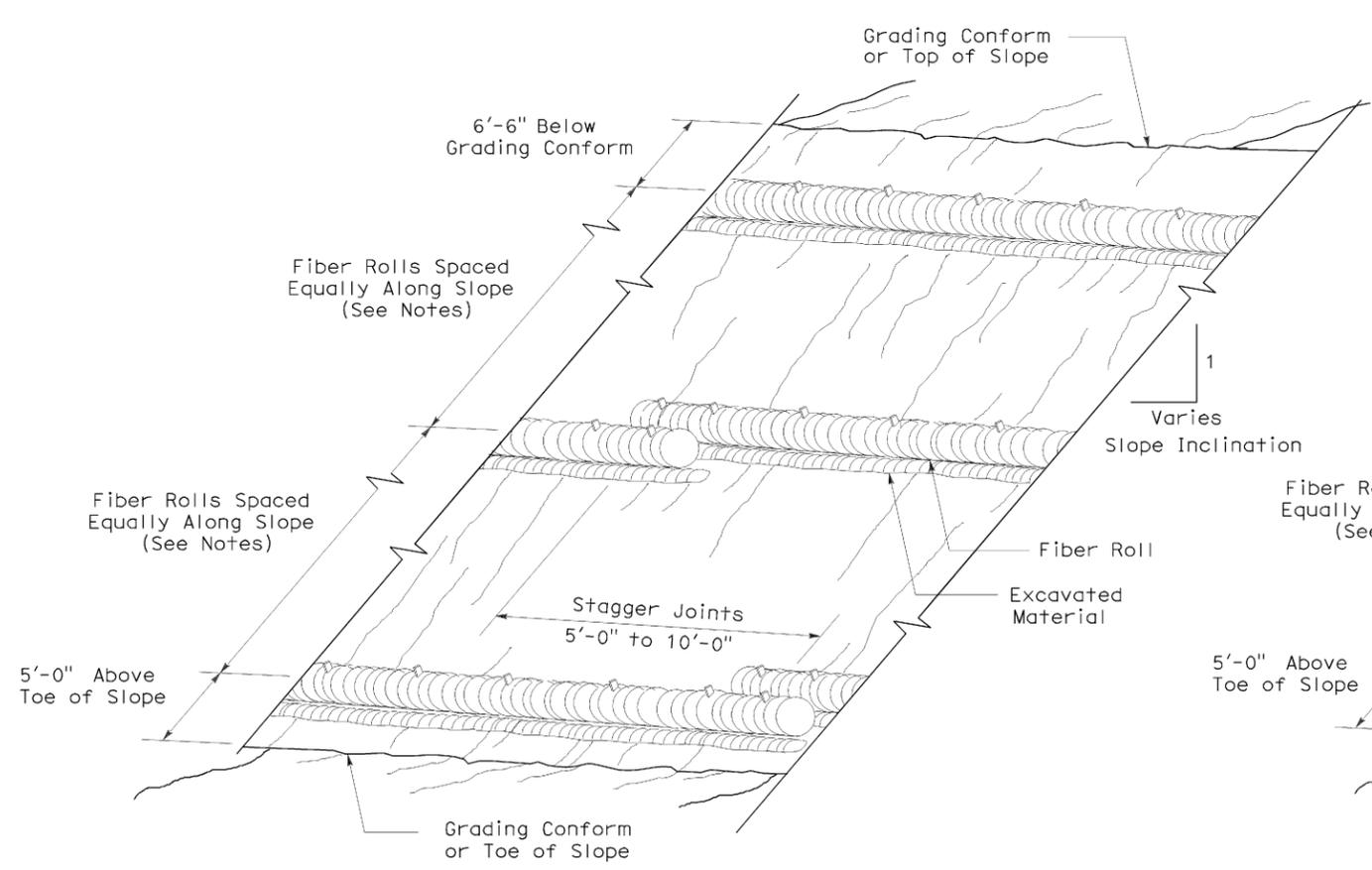
**PLAN**



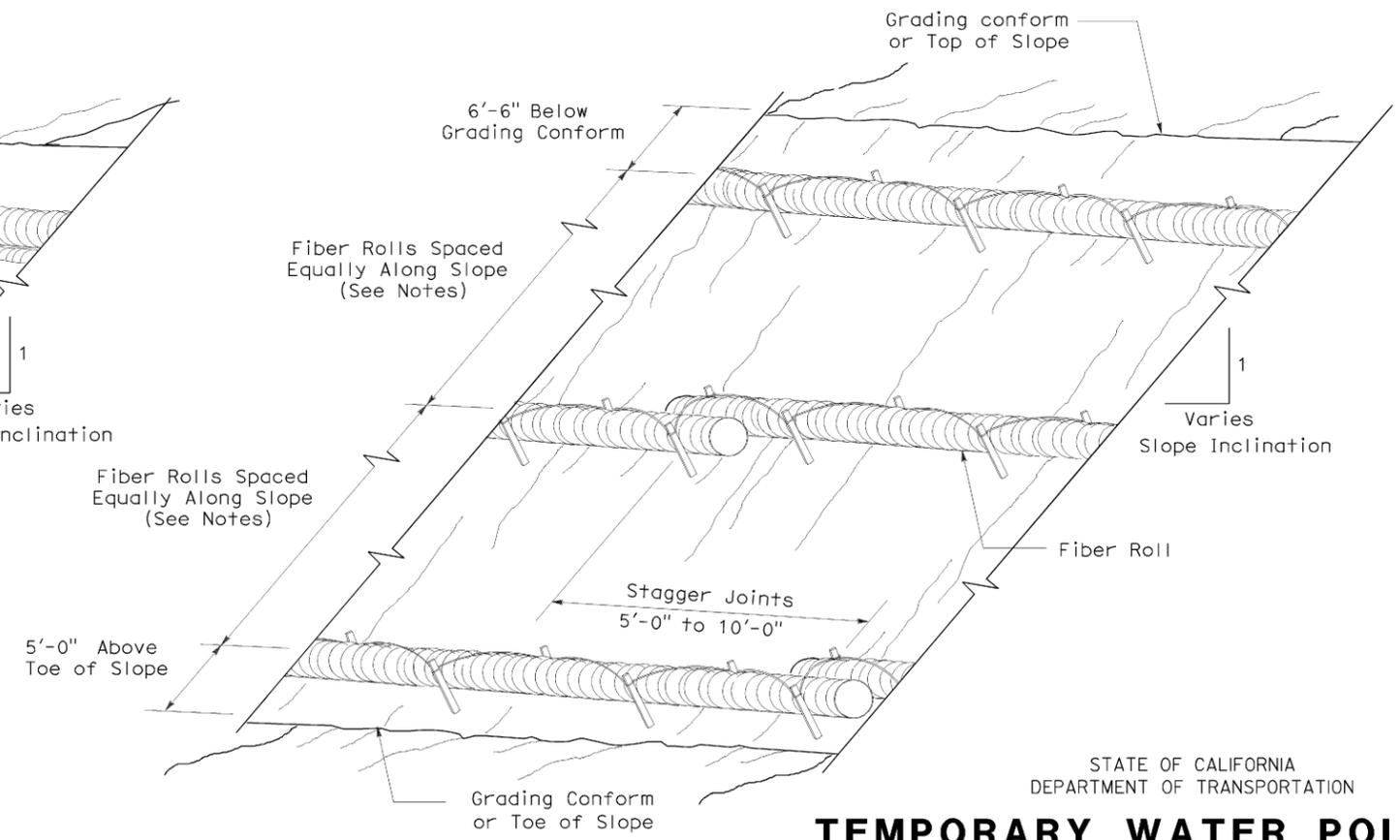
**ELEVATION**  
**STAKE NOTCH DETAIL**

**NOTES:**

1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 1)**



**PERSPECTIVE**  
**TEMPORARY FIBER ROLL (TYPE 2)**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION CONTROL DETAILS**  
**(TEMPORARY FIBER ROLL)**

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56  
 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T56**

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2006 REVISED STANDARD PLAN RSP T56