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18-21	RATTLESNAKE CREEK ARCH CULVERT-REPLACE INVERT BRIDGE No. 10-0029

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 MENDOCINO COUNTY**  
**ABOUT 7.1 MILES SOUTH OF LEGGETT**  
**AT RATTLESNAKE CREEK BRIDGE**

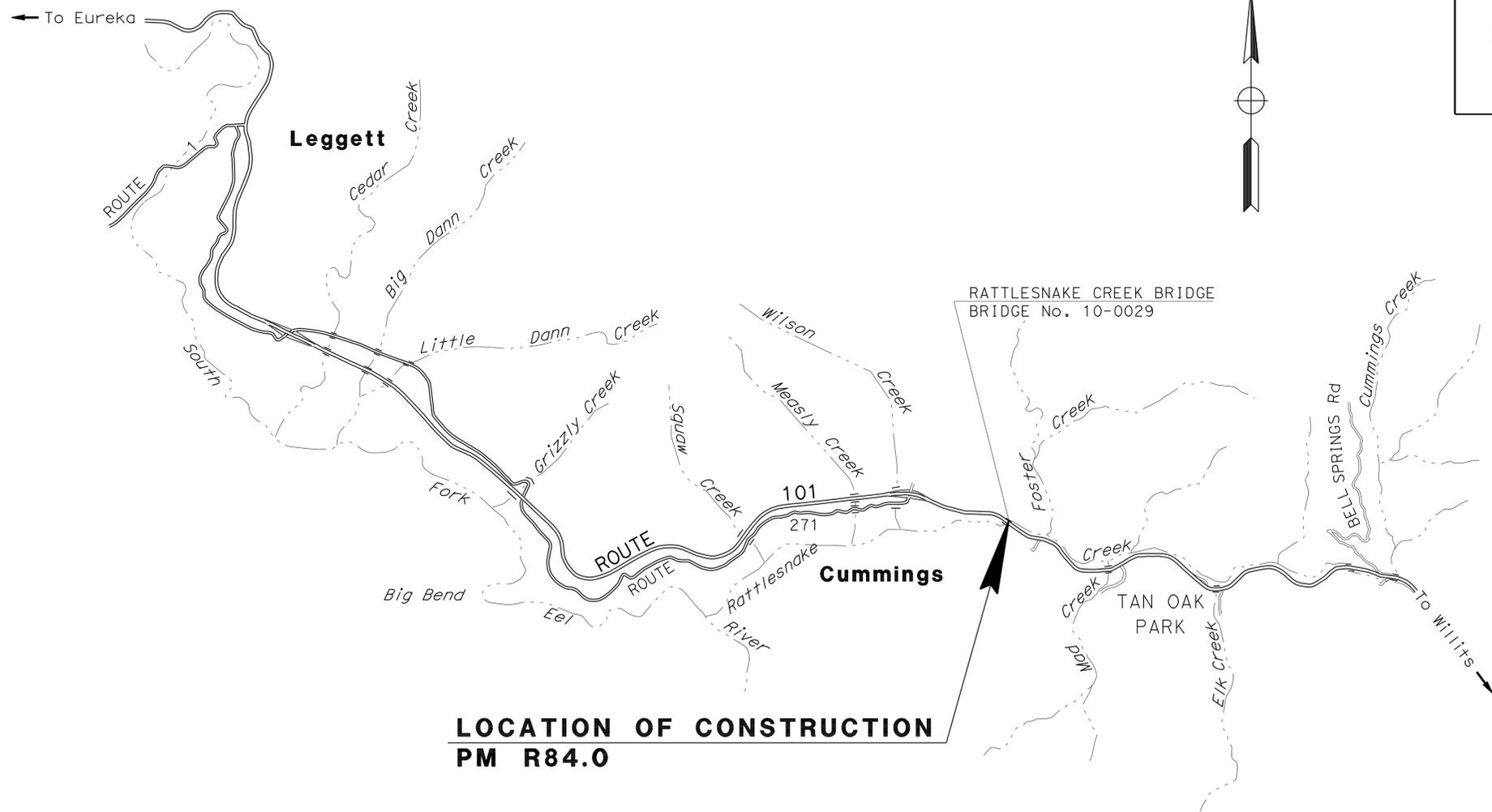
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	1	21





LOCATION MAP



NO SCALE

PROJECT MANAGER  
**STEVEN BLAIR**  
 DESIGN ENGINEER  
**ROBERT E. POLGAR**

*Marlene E. Gibb* 5-31-12  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER



**December 24, 2012**  
 PLANS APPROVAL DATE

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CONTRACT No.	<b>01-412214</b>
PROJECT ID	<b>0100000166</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	2	21

<i>Marlene E. Gibb</i>	5-31-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

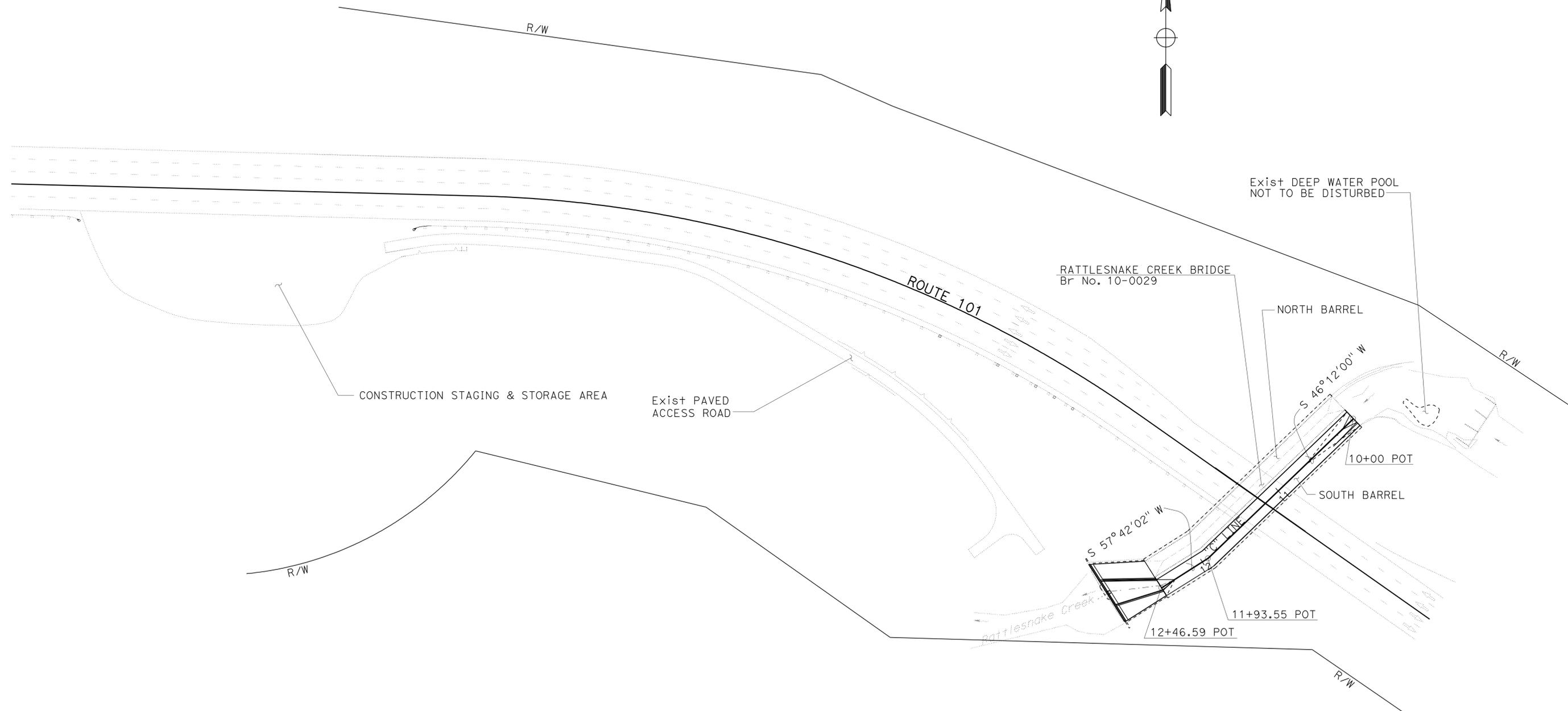
REGISTERED PROFESSIONAL ENGINEER	MARLENE E. GIBB
No. 51513	
Exp. 6-30-14	
CIVIL	

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**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE DRAINAGE PLANS FOR DRAINAGE WORK.
3. SEE WPC-1 FOR ADDITIONAL WATER POLLUTION CONTROL WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> DIVISION OF ENGINEERING	ROBERT E. POLGAR	CHECKED BY	DATE
		MARLENE E. GIBB	MARTIN GARCIA



**CONSTRUCTION DETAILS**  
NO SCALE  
**C-1**

LAST REVISION | DATE PLOTTED => 30-JAN-2013  
00-00-00 | TIME PLOTTED => 10:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	3	21

<i>Marlene E. Gibb</i>		5-31-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	MARLENE E. GIBB
No. 51513	
Exp. 6-30-14	
CIVIL	

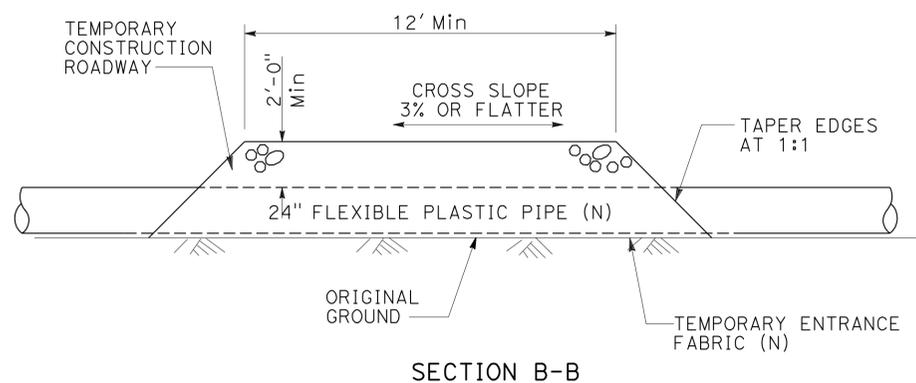
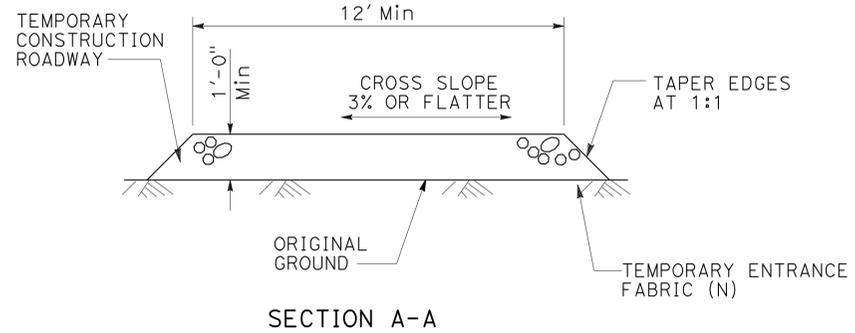
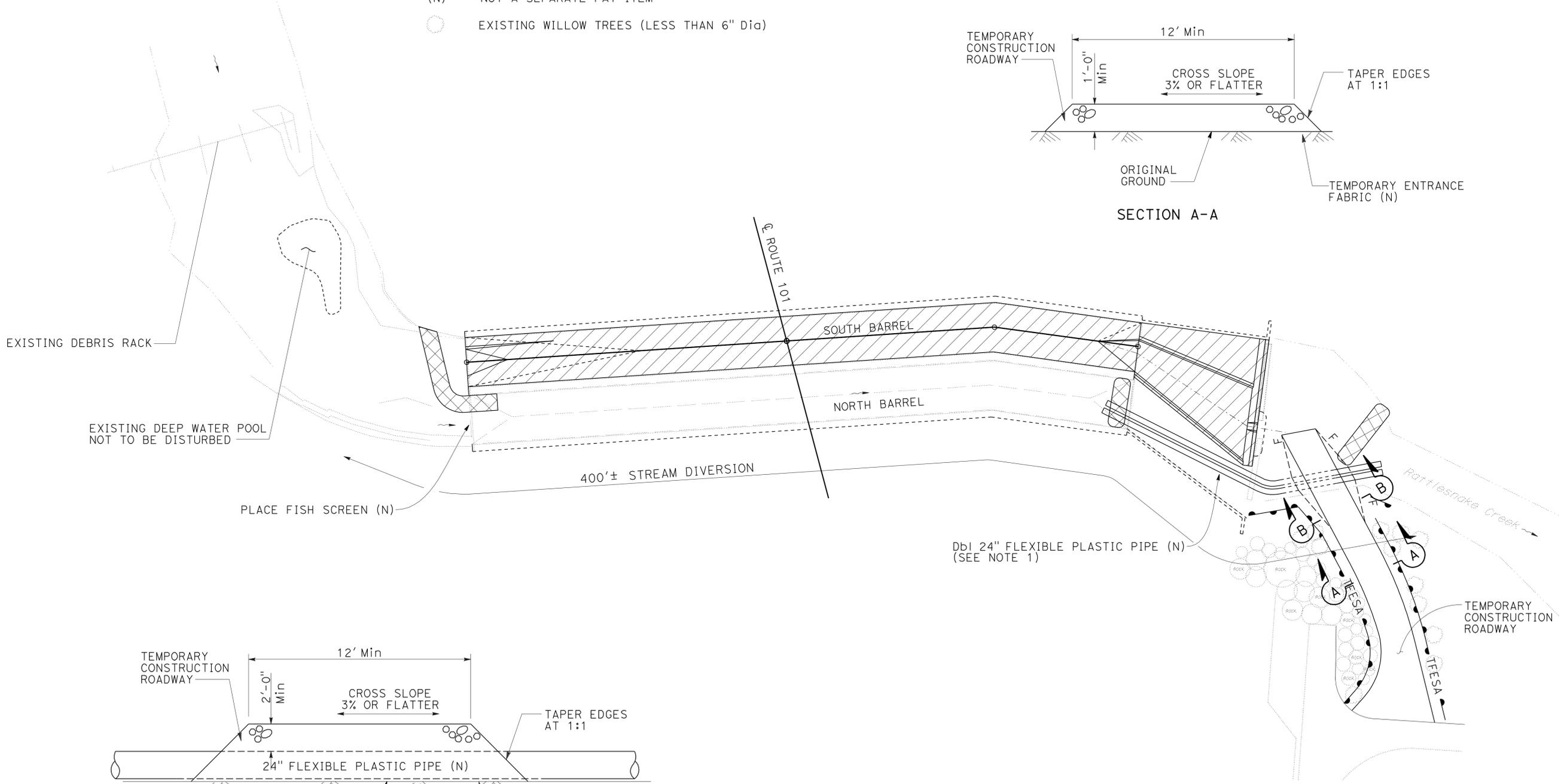
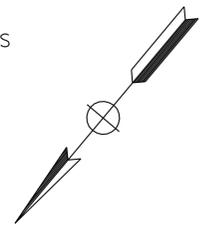
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**NOTE:**

1. EXACT LOCATION AND DETAILS OF TEMPORARY STREAMBED DIVERSION TO BE APPROVED BY THE ENGINEER.

**LEGEND:**

-  TEMPORARY DAM - WATER FILLED BLADDERS OR GRAVEL BAGS (TYPE AND PLACEMENT TO BE APPROVED BY ENGINEER)
-  CONSTRUCTION WITH DIVERSION 1
-  TFESA TEMPORARY FENCE (ESA)
- (N) NOT A SEPARATE PAY ITEM
-  EXISTING WILLOW TREES (LESS THAN 6" Dia)



**DIVERSION 1**

**TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY CREEK DIVERSION SYSTEM)**

NO SCALE

**WPC-1**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
<b>Caltrans</b> DIVISION OF ENGINEERING					
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	CHECKED BY	REVISIONS	REVISIONS
ROBERT E. POLGAR					
				DATE	DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	4	21

<i>Marlene E. Gibb</i>	5-31-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MARLENE E. GIBB
No. 51513
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

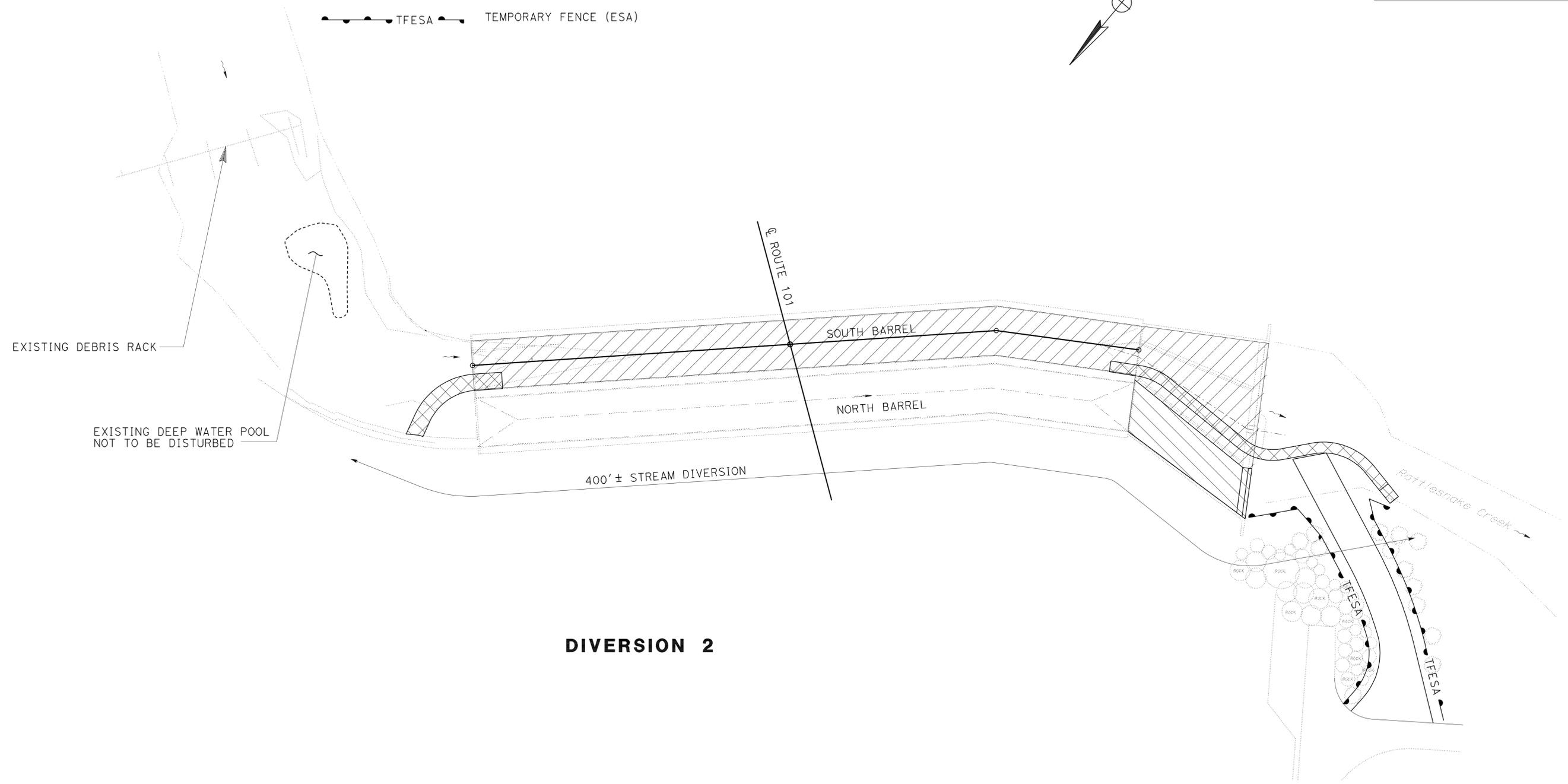
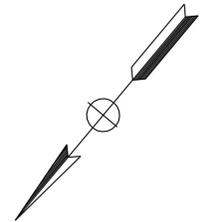
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**NOTE:**

1. EXACT LOCATION AND DETAILS OF TEMPORARY STREAMBED DIVERSION TO BE APPROVED BY THE ENGINEER.

**LEGEND:**

-  TEMPORARY DAM - WATER FILLED BLADDERS OR GRAVEL BAGS (TYPE AND PLACEMENT TO BE APPROVED BY ENGINEER)
-  CONSTRUCTION WITH DIVERSION 1 (SEE WPC-1)
-  CONSTRUCTION WITH DIVERSION 2
-  TFESA TEMPORARY FENCE (ESA)



**DIVERSION 2**

**TEMPORARY WATER POLLUTION CONTROL DETAILS  
(TEMPORARY CREEK DIVERSION SYSTEM)**

NO SCALE

**WPC-2**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b> DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR
ROBERT E. POLGAR
CALCULATED/DESIGNED BY
CHECKED BY
MARLENE E. GIBB
MARTIN GARCIA
REVISOR BY
DATE
REVISED BY
DATE
REVISOR BY
DATE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	5	21

*Laura Lazzarotto*  
 LICENSED LANDSCAPE ARCHITECT

12-24-12  
 PLANS APPROVAL DATE

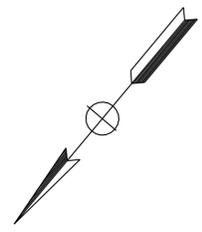
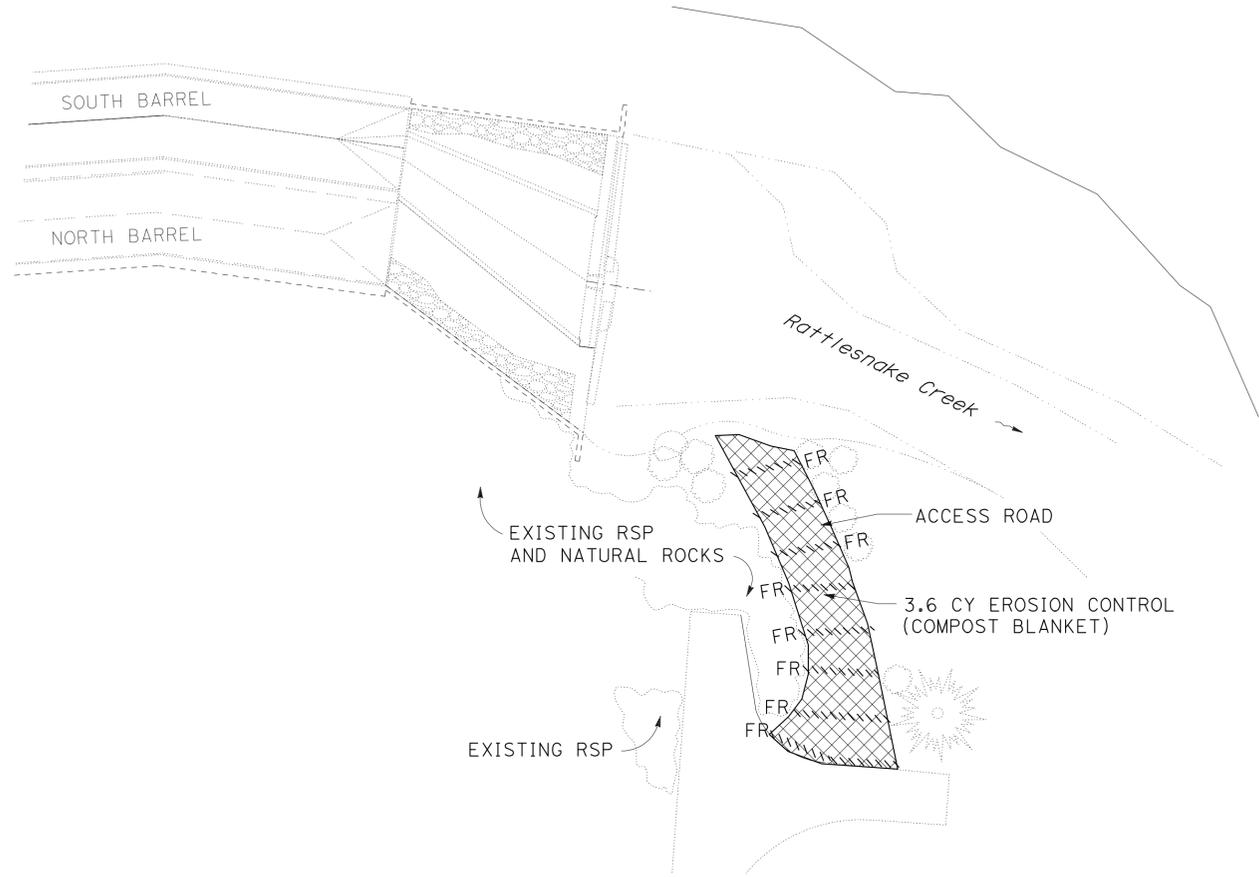
8-31-13  
 Renewal Date  
 5-23-12  
 Date

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**LEGEND:**

- FR FIBER ROLLS
- EROSION CONTROL (COMPOST BLANKET)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 LAURA LAZZAROTTO  
 REVISOR BY  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 RON FLORY



**EROSION CONTROL QUANTITIES**

LOCATION	(N) AREA	EROSION CONTROL (COMPOST BLANKET)	(N) PURE LIVE SEED	FIBER ROLLS
	SQFT	CY	LBS	LF
ACCESS ROAD	1,160	3.6	3.5	140
<b>TOTAL</b>	<b>1,160</b>	<b>3.6</b>	<b>3.5</b>	<b>140</b>

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

APPROVED FOR EROSION CONTROL WORK ONLY



**EROSION CONTROL PLAN AND QUANTITIES**

SCALE: 1" = 20'

**EC-1**

LAST REVISION | DATE PLOTTED => 26-DEC-2012  
 00-00-00 | TIME PLOTTED => 11:17



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	7	21

<i>Marlene E. Gibb</i>		5-31-12
REGISTERED CIVIL ENGINEER	DATE	
12-24-12		
PLANS APPROVAL DATE		

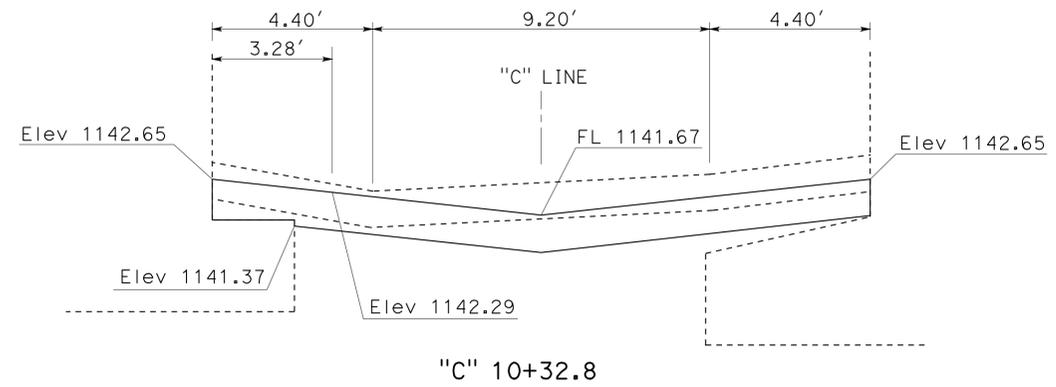
  

REGISTERED PROFESSIONAL ENGINEER	MARLENE E. GIBB
No. 51513	
Exp. 6-30-14	
CIVIL	

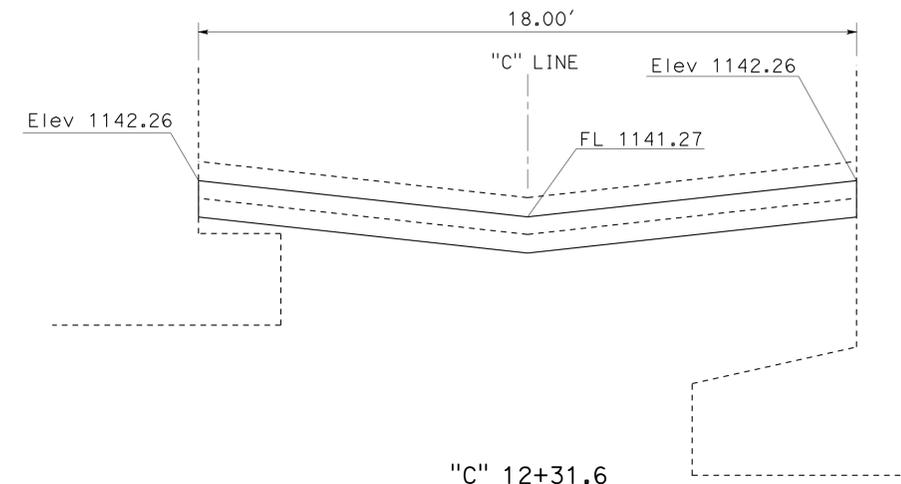
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**NOTE:**

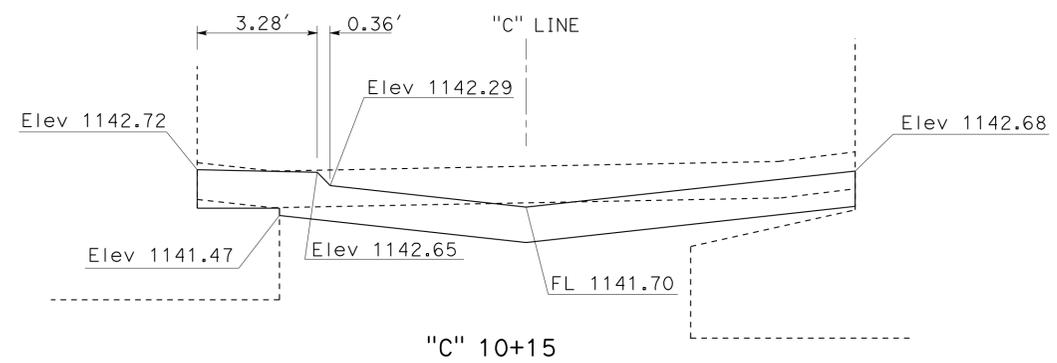
FOR ADDITIONAL DETAILS NOT SHOWN, SEE STRUCTURE PLANS.



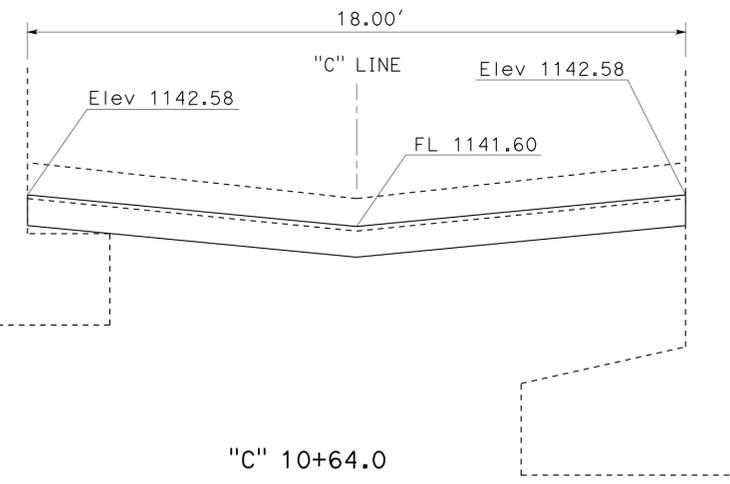
"C" 10+32.8



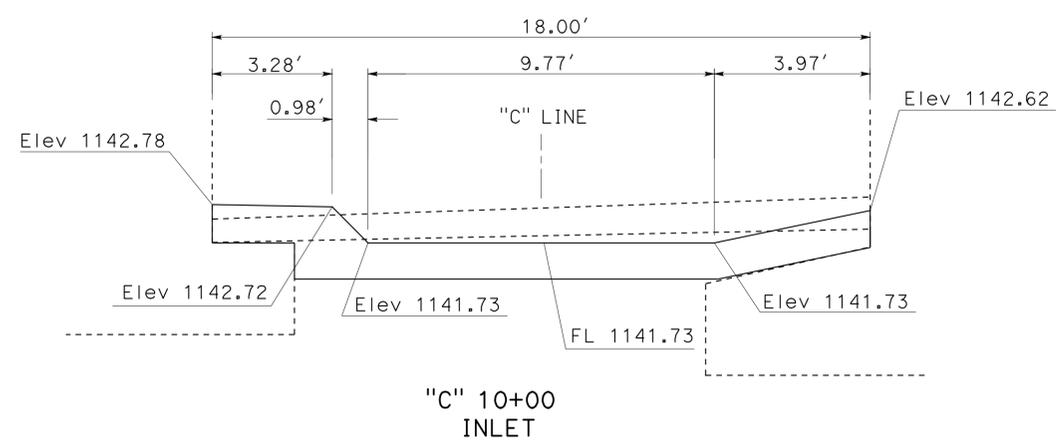
"C" 12+31.6



"C" 10+15



"C" 10+64.0



"C" 10+00 INLET

**SOUTH BARREL**

**DRAINAGE DETAILS**

NO SCALE

**DD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> DIVISION OF ENGINEERING	MARLENE E. GIBB	
FUNCTIONAL SUPERVISOR	MARTIN GARCIA	
	ROBERT E. POLGAR	



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	8	21

<i>Marlene E. Gibb</i>	5-31-12
REGISTERED CIVIL ENGINEER	DATE
12-24-12	
PLANS APPROVAL DATE	

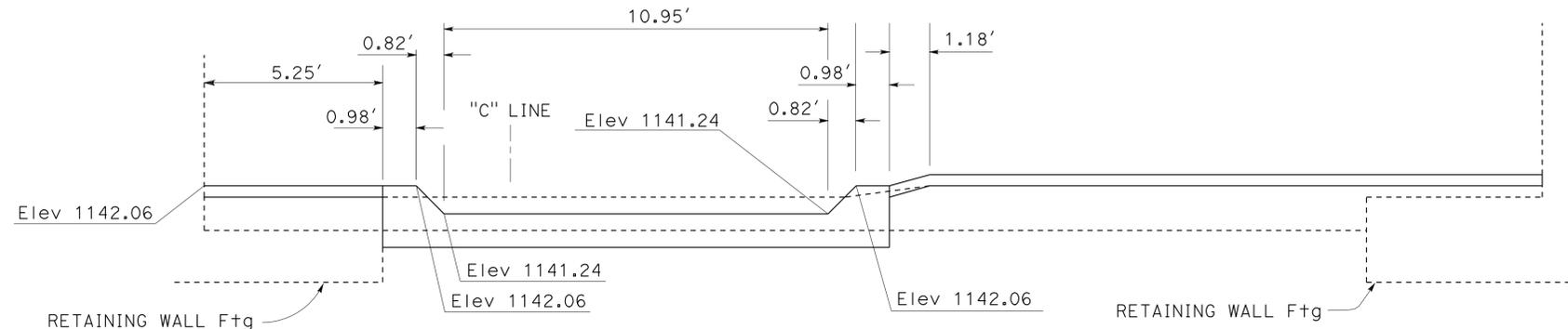
  

REGISTERED PROFESSIONAL ENGINEER
MARLENE E. GIBB
No. 51513
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

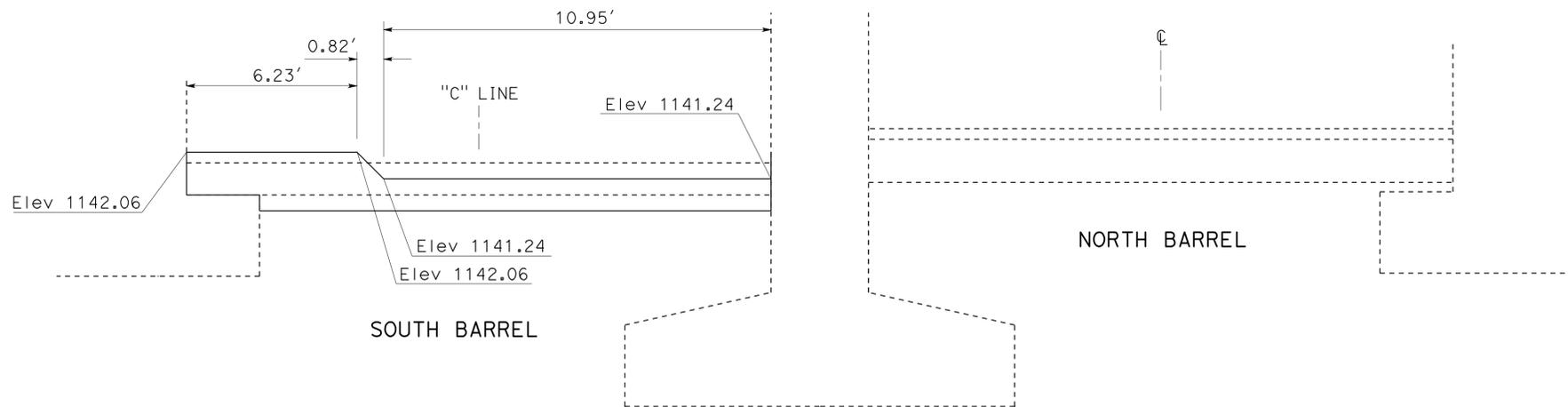
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**NOTE:**

FOR ADDITIONAL DETAILS NOT SHOWN, SEE STRUCTURE PLANS.



"C" 12+46.6  
OUTLET SLAB



SOUTH BARREL

NORTH BARREL

"C" 12+46.6  
OUTLET

**DRAINAGE DETAILS**

NO SCALE

**DD-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b> DIVISION OF ENGINEERING
FUNCTIONAL SUPERVISOR
ROBERT E. POLGAR
CALCULATED, DESIGNED BY
CHECKED BY
MARLENE E. GIBB
MARTIN GARCIA
REVISOR
DATE
REVISED BY
DATE
REVISED BY
DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	9	21

**Marlene E. Gibb** 5-31-12  
 REGISTERED CIVIL ENGINEER DATE

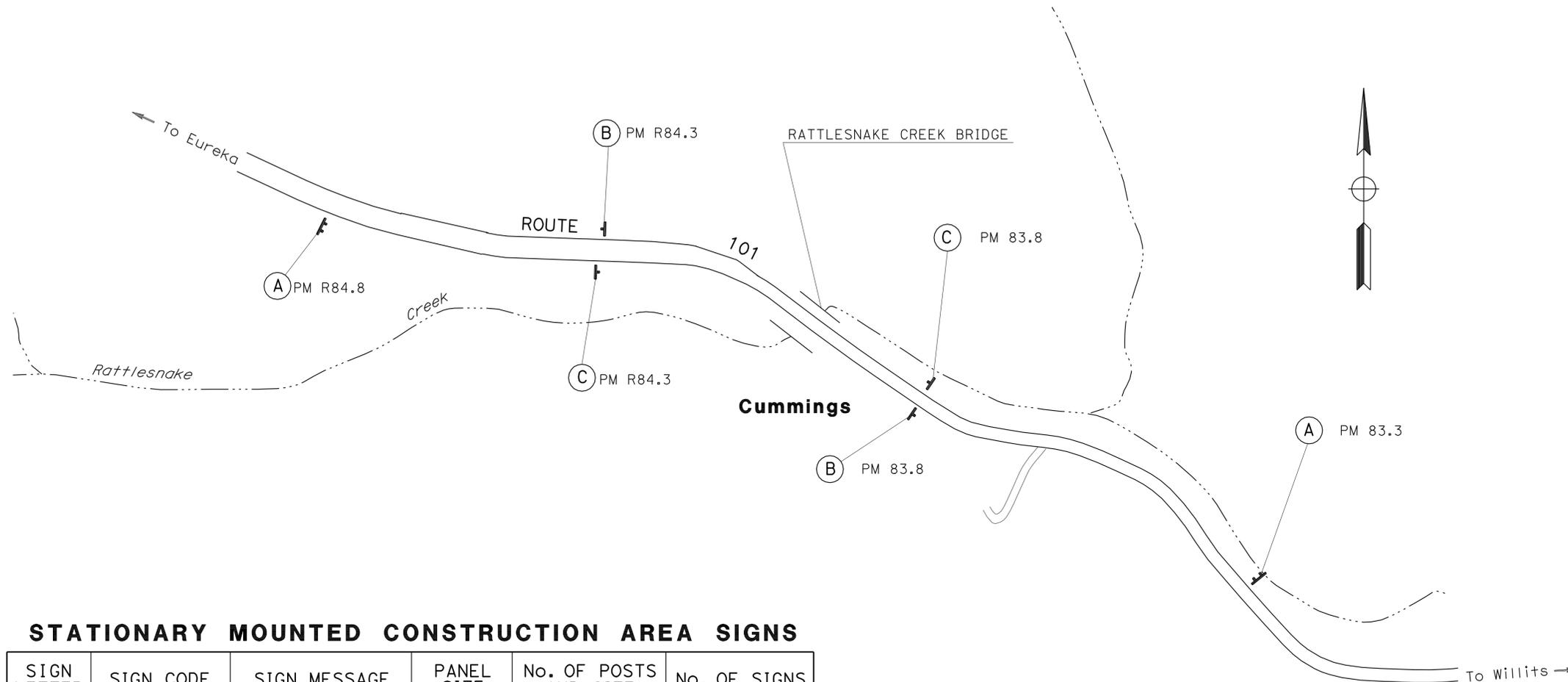
12-24-12  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**MARLENE E. GIBB**  
 No. 51513  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

**NOTE:**  
EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

**LEGEND:**  
 ↑ SIGN - ONE POST  
 ↑↑ SIGN - TWO POST



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN LETTER	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	48" x 48"	2 - 4" x 6"	2
	C23B(CA)	DRAINAGE REHABILITATION	60" x 24"		2
B	G20-2	END ROAD WORK	48" x 24"	1 - 4" x 4"	2
C	W11-1		48" x 48"	1 - 4" x 6"	2
	W16-1	SHARE THE ROAD	30" x 30"		2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING  
 FUNCTIONAL SUPERVISOR: ROBERT E. POLGAR  
 CALCULATED/DESIGNED BY: MARLENE E. GIBB  
 CHECKED BY: MARTIN GARCIA  
 REVISED BY: MARLENE E. GIBB  
 DATE REVISED:

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CONSTRUCTION AREA SIGNS**  
NO SCALE **CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR  
 ROBERT E. POLGAR

CALCULATED/DESIGNED BY  
 CHECKED BY

MARLENE E. GIBB  
 MARTIN GARCIA

REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	10	21

*Marlene Gibb* 5-31-12  
 REGISTERED CIVIL ENGINEER DATE

12-24-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 MARLENE E. GIBB  
 No. 51513  
 Exp. 6-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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

### TEMPORARY EROSION AND WATER POLLUTION CONTROL ITEMS

PLAN SHEET	TEMPORARY FENCE (ESA)	TEMPORARY CONSTRUCTION ROADWAY	TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE
	LF	CY	LF	LF
SHEET WPC-1	200	70		
			400	200
<b>TOTAL</b>	200	70	400	200

### ROADWAY ITEMS

PLAN SHEET	14' METAL GATE
	EA
SHEET C-1	1
<b>TOTAL</b>	1

## SUMMARY OF QUANTITIES

### Q-1

LAST REVISION | DATE PLOTTED => 26-DEC-2012  
 00-00-00 | TIME PLOTTED => 11:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R84.0	11	21

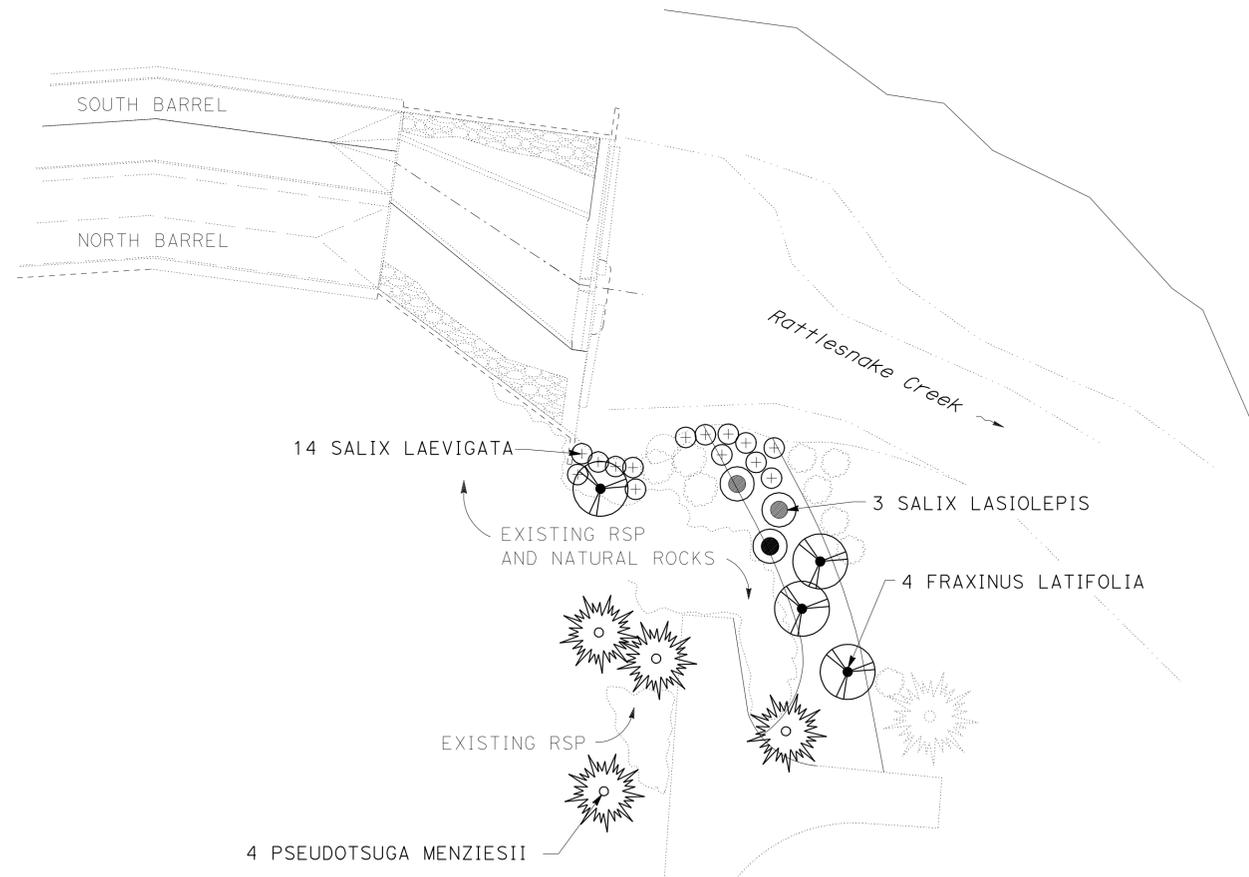
*Laura Lazzarotto*  
 LICENSED LANDSCAPE ARCHITECT

12-24-12  
 PLANS APPROVAL DATE

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

### PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	SOIL AMEND ①	BASIN MULCH (CY)	SPACING	REMARKS
						Dia	DEPTH					
I		FRAXINUS LATIFOLIA	OREGON ASH	TREEPOT	4	8	16	II	.16 CF	.03	⑦	Min POT SIZE 4" x 14"
		PSEUDOTSUGA MENZIESII	DOUGLAS FIR	TREEPOT	4	8	16	II	.16 CF	.03	⑦	Min POT SIZE 4" x 14"
		SALIX LASIOLEPIS	ARROYO WILLOW	TREEPOT	3	8	16	II	.16 CF	.03	⑦	Min POT SIZE 4" x 14"
		SALIX LAEVIGATA	RED WILLOW	TREEPOT	14	8	16	II	—	—	⑦	Min POT SIZE 4" x 14"



**ABBREVIATIONS:**

- |                    |                                |
|--------------------|--------------------------------|
| AMEND — amendment  | Max — maximum                  |
| Dia — diameter     | Min — minimum                  |
| EA — each          | NCN — no common name           |
| LB — pound         | No. — number                   |
| Oz — ounce         | Pkt — packet                   |
| Ft — foot/feet     | PLT ESTB — plant establishment |
| SQFT — square feet | Pvmt — pavement                |
| SQYD — square yard | R/W — right of way             |
| CF — cubic feet    | SF — state furnished           |
| CY — cubic yard    |                                |

**APPLICABLE WHEN CIRCLED:**

- |   |                                     |
|---|-------------------------------------|
| ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES | 6 - SEE STANDARD SPECIFICATIONS     |
| 2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN            | ⑦ - AS SHOWN ON PLANS               |
| ③ - PLANTS TO BE GROWN FROM MENDOCINO COUNTY PLANT STOCK ONLY                       | 8 - UNLESS OTHERWISE SHOWN ON PLANS |
| 4 - SEE DETAIL  | 9 - FOLIAGE PROTECTOR REQUIRED      |
| 5 - SEE SPECIAL PROVISIONS  | 10 - STATE-FURNISHED                |

APPROVED FOR PLANTING WORK ONLY

## PLANT LIST AND PLANTING PLAN

SCALE: 1" = 20'

PL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

LAURA LAZZAROTTO

RON FLORY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	12	21

*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 12-24-12

2006 REVISED STANDARD PLAN RSP H1

**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 C+D 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  
 M+I 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  
 PK+ 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  
 Pvmt pavement

**Q**

Q quarter circle  
 QCV quick coupling valve

**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

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**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**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	13	21

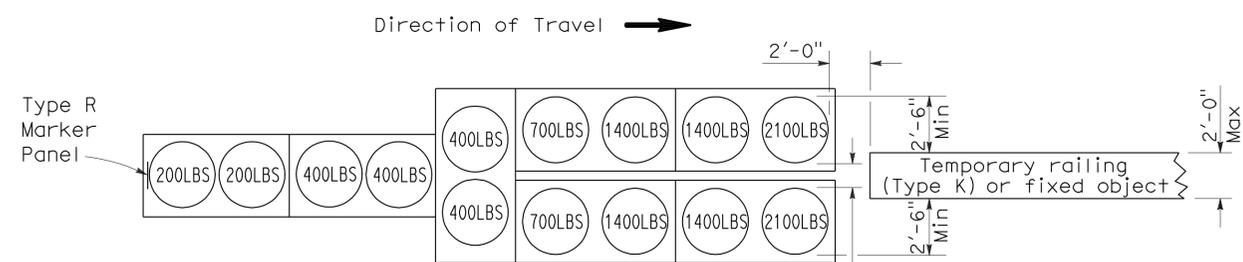
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

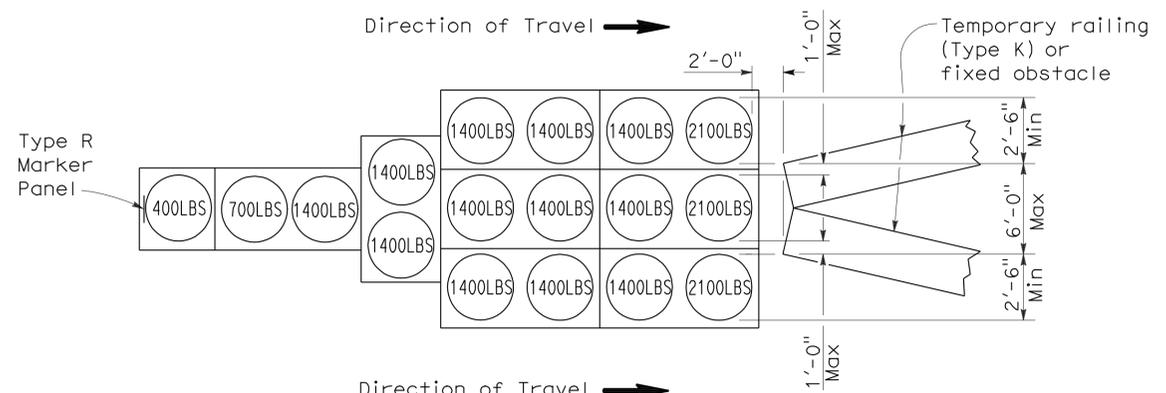
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 12-24-12



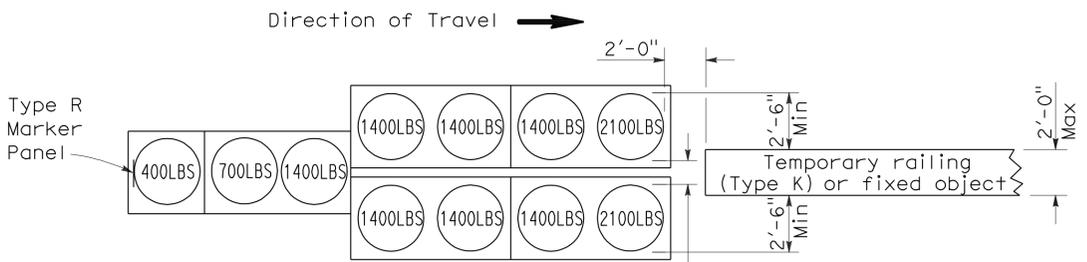
**ARRAY 'TU14'**

Approach speed 45 mph or more



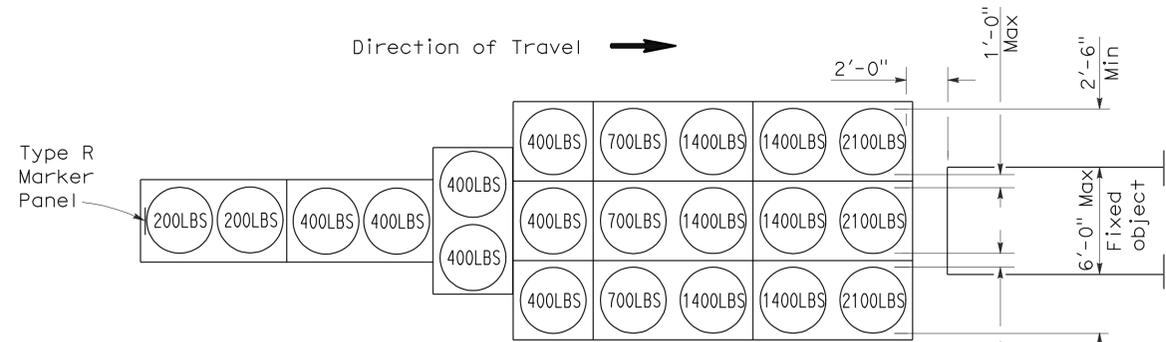
**ARRAY 'TU17'**

Approach speed less than 45 mph



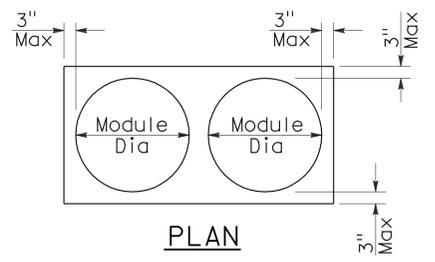
**ARRAY 'TU11'**

Approach speed less than 45 mph

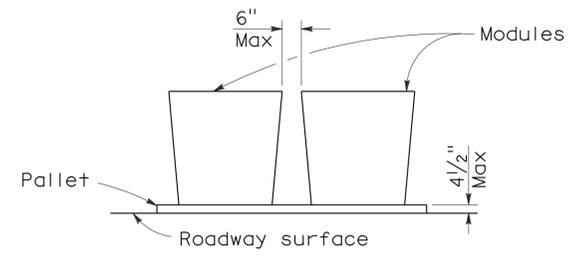


**ARRAY 'TU21'**

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

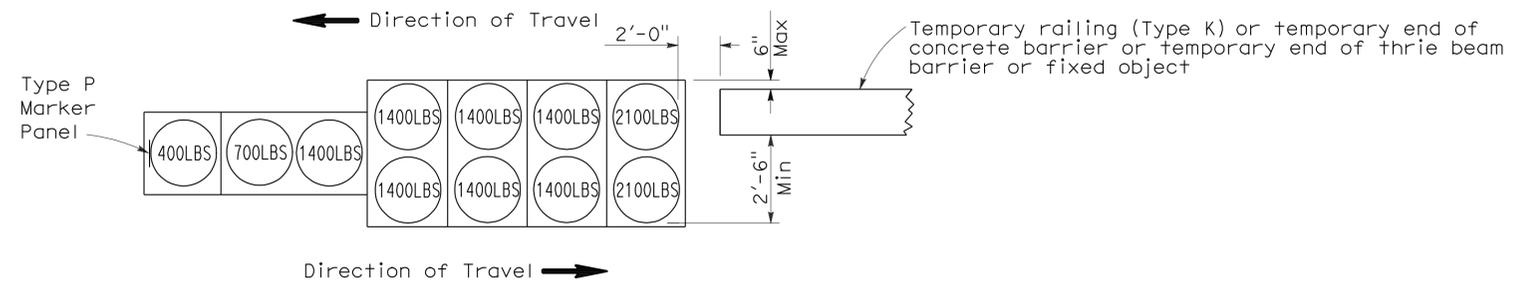
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	14	21

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

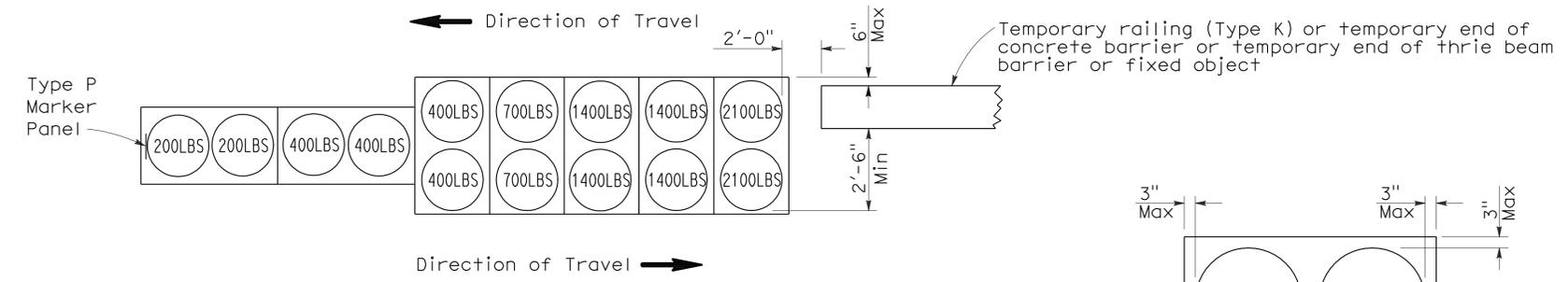
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 12-24-12



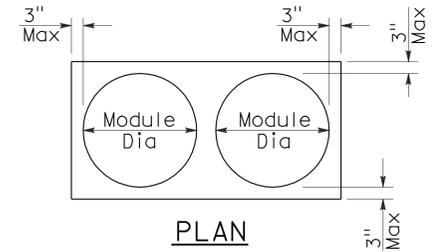
**ARRAY 'TB11'**

Approach speed less than 45 mph

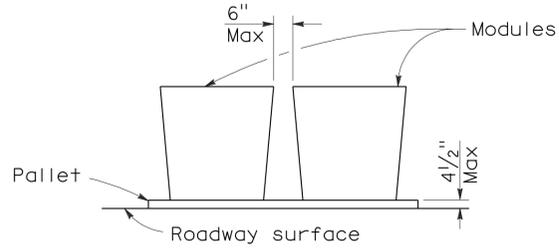


**ARRAY 'TB14'**

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
01	Men	101	R84.0	15	21

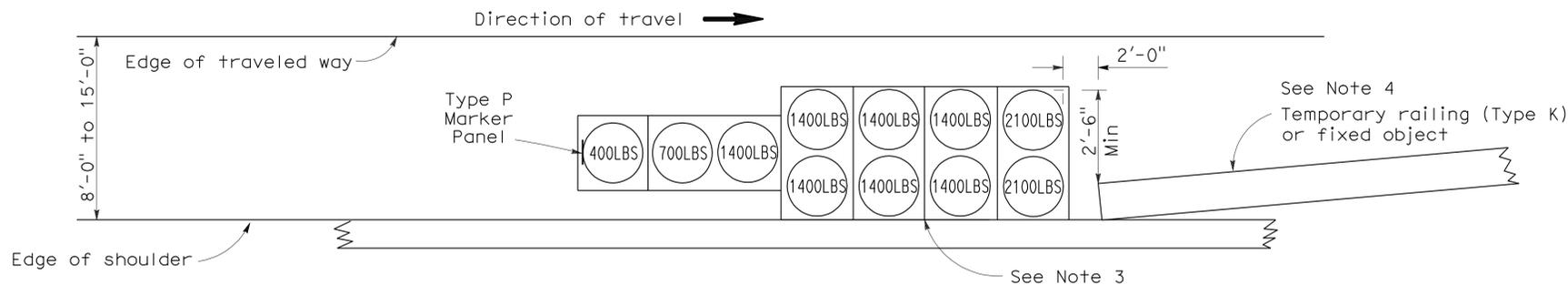
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

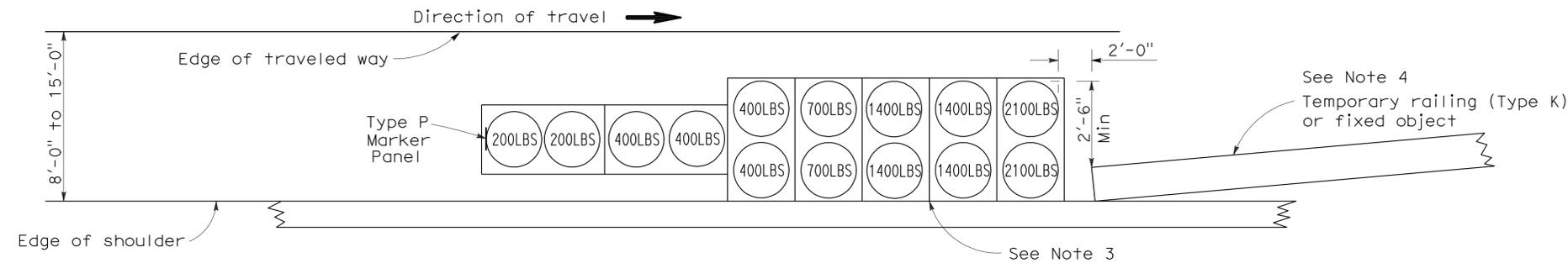
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

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

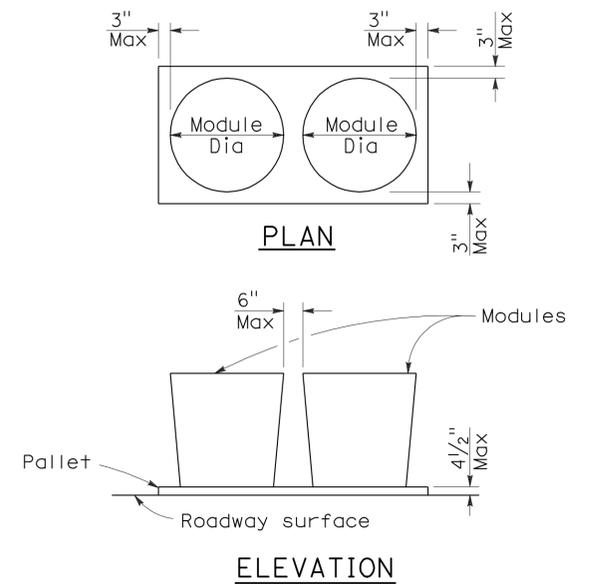
To accompany plans dated 12-24-12



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



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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**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.

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.

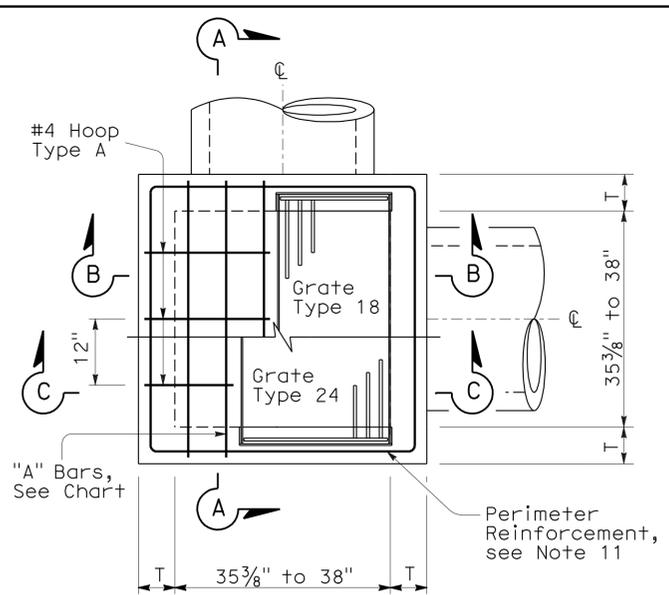
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

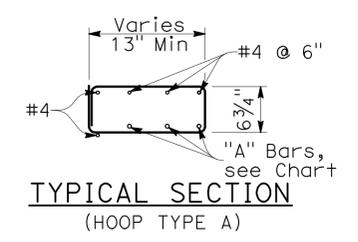
To accompany plans dated 12-24-12

**NOTES:**

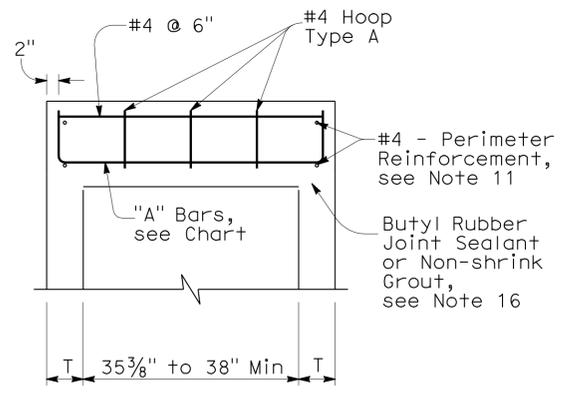
- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
- For "T" wall thickness: T=6" when "H" is 8' or less. T=8" when "H" is over 8'.
- Wall reinforcing not required when "H" is 8' or less, and the unsupported width or length is 6'-0" or less. Reinforce wall exceeding these limits with #4 bars @ 1'-6" ± centers placed 2" clear to the inside of inlet unless otherwise shown. Short independent wall sections or height adjustment rings 6" to 24" high must have a minimum of two #4 horizontal bars.
- Seal pre-cast inlets connection openings between wall and pipe with non-shrink grout or resilient connectors as specified in the Special Provisions.
- Steps - None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below bottom of lid. The distance between steps must not exceed 1'-0" and be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts must comply with State Industrial Safety Requirements. See Standard Plan D74C for step details.
- Pipe(s) can be placed in any wall.
- Set inlet so that grate bars are parallel to direction of principal surface flow.
- Type G4 inlet can use Grate Type 18 or 24. Type G2 inlet uses Grate Type 24. See Revised Standard Plan RSP D77A and Standard Plan D77B for grate and frame details and weights of miscellaneous Iron and Steel.
- G4 inlet details are the same as the G2 with the addition of a curb and sloped grate that matches the adjacent curb and gutter depression. See Standard Plans D78A & D78B for gutter and inlet depression details. See Revised Standard Plan RSP A87A & Standard Plan A87B for Curb and Dike Details.
- Provide pre-cast inlets with separate top sections for final grade adjustment under Standard Specification Section 51-1.02. Provide keyed joints between the top and wall and multiple wall sections. Joint design may vary but must be 1" to 3" in depth.
- Perimeter reinforcement serves as a rigid frame to position and attach the required structural reinforcement and may be tack welded at outer corners when using ASTM A706 weldable bars.
- This dimension will vary with different grates, curbs types, box width and wall thickness.
- 2" unless inlet is expanded in the Span "A" direction, then clearance is 2" plus the diameter of the lower "A" bar.
- Place "A" Bars at an angle so hooked ends will maintain 2" clear coverage.
- Refer to Standard Plan D73, Table A for concrete quantities.
- Non-shrink grout can be used for upper most joint to facilitate final top grade adjustment.
- Slope inlet floors 4:1 towards the outlet pipe. Pre-cast inlets may have monolithic sloped floors, flat floors, or no floors in which case a sloped floor must be cast in the field. Inlet floors do not require reinforcing.
- Extend sand bedding under all structure backfill.



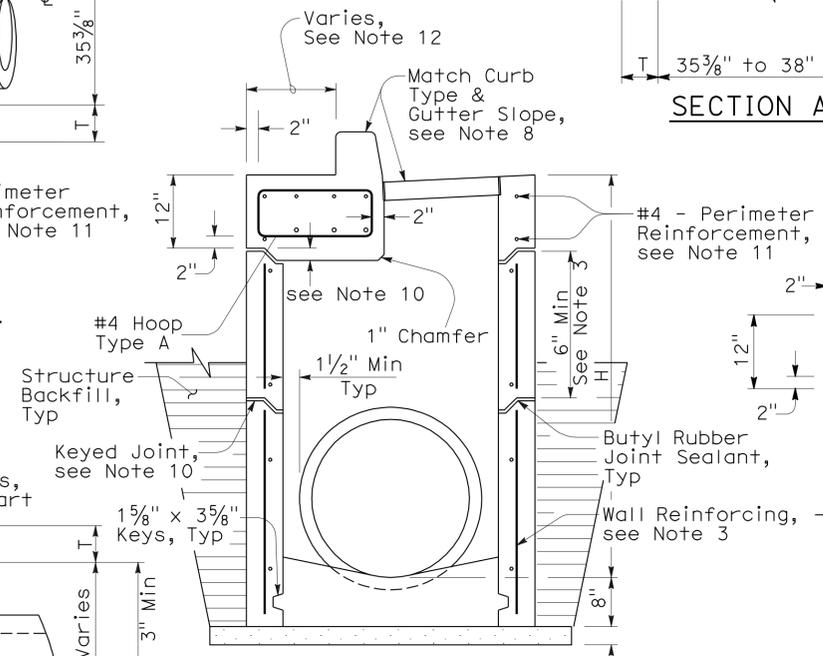
**STANDARD TYPE G2 OR G4**



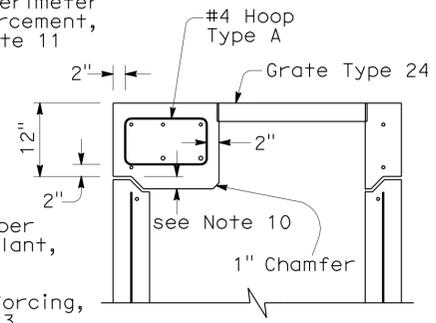
**TYPICAL SECTION (HOOP TYPE A)**



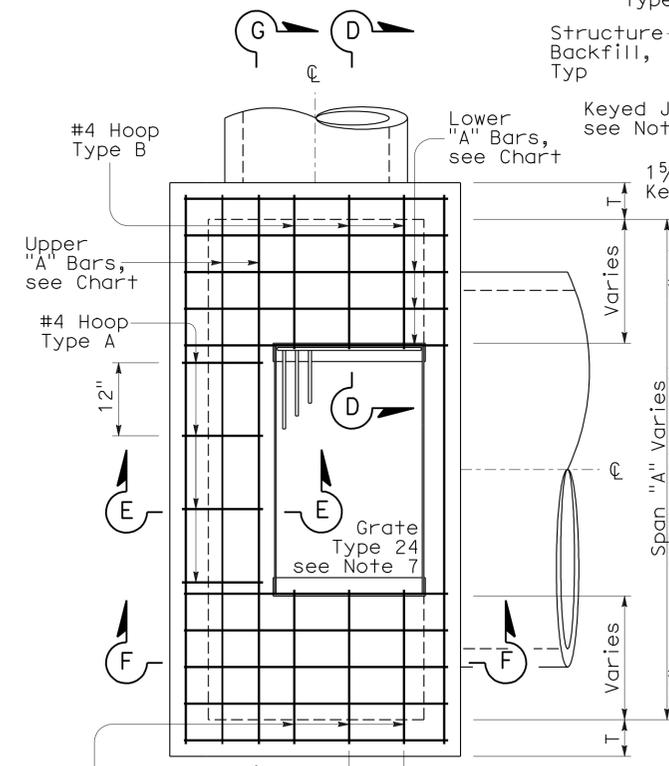
**SECTION A-A**



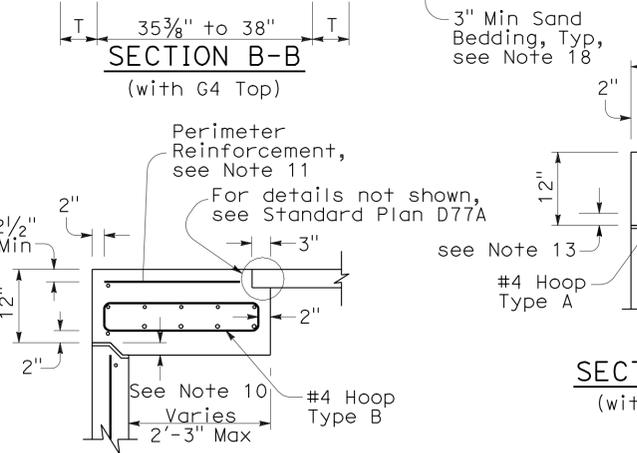
**SECTION B-B (with G4 Top)**



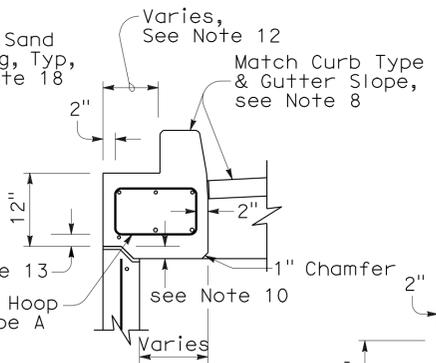
**SECTION C-C (with G2 Top)**



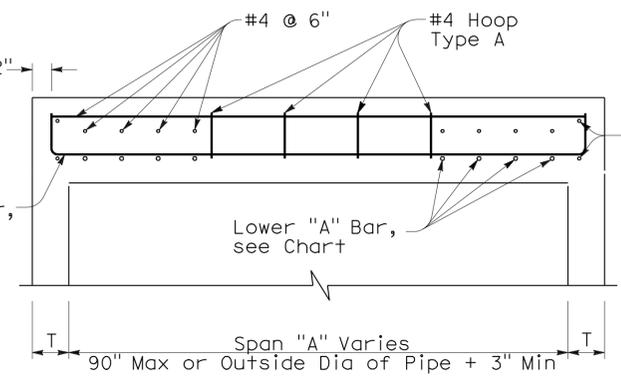
**EXPANDED TYPE G2 OR G4 (Top Rebar Not Shown)**



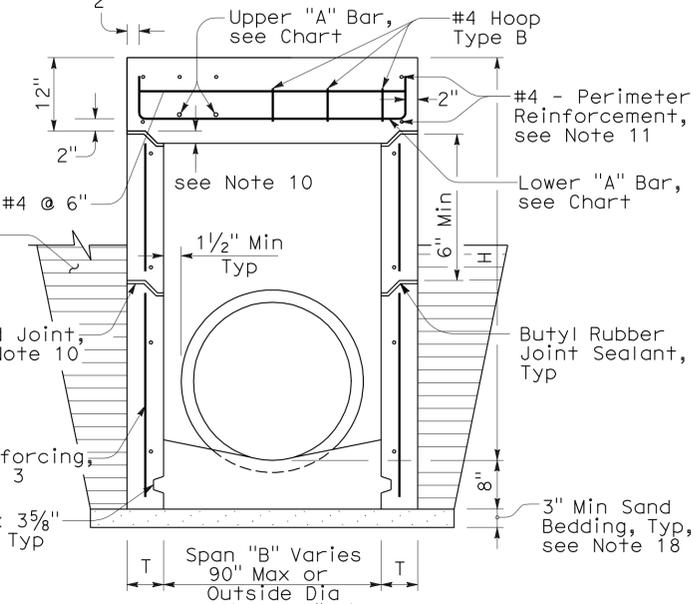
**SECTION D-D**



**SECTION E-E (with G4 Top)**



**SECTION G-G**



**SECTION F-F (with G2 Top)**

TOP REINFORCEMENT CHART		
Span	"A" Bars	Required steel area per foot (in <sup>2</sup> /ft)
Under 38" with Type 24 Grate	#5 @ 7" C-C 2-#5 Min	0.525
Under 38" with Type 18 Grate	#5 @ 7" C-C 3-#5 Min	0.525
38"-60"	#5 @ 6" C-C	0.621
61"-72"	#5 @ 5" C-C	0.744
73"-90"	#6 @ 6" C-C	0.811

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**DRAINAGE INLETS (PRECAST)**

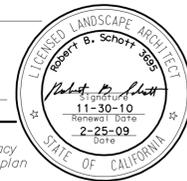
NO SCALE

NSP D73A DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

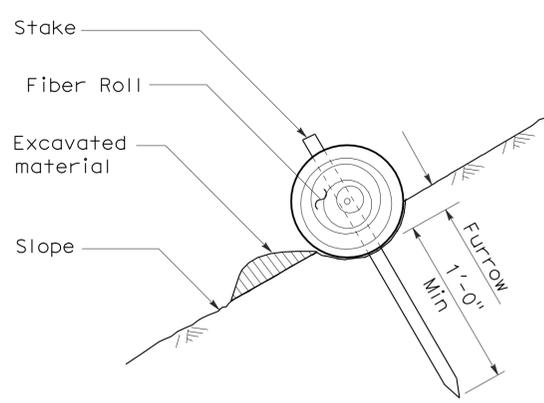
2006 NEW STANDARD PLAN NSP D73A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	17	21

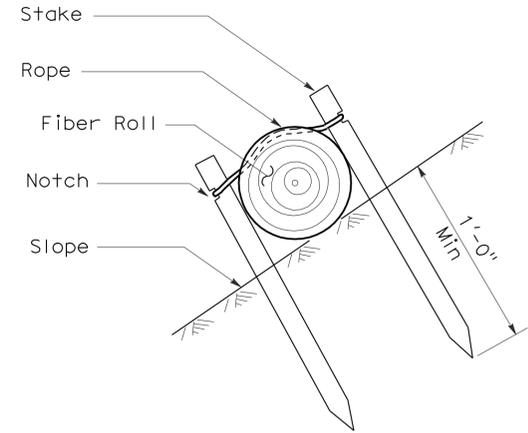
*Robert B. Schott*  
 LICENSED LANDSCAPE ARCHITECT  
 April 3, 2009  
 PLANS APPROVAL DATE  
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



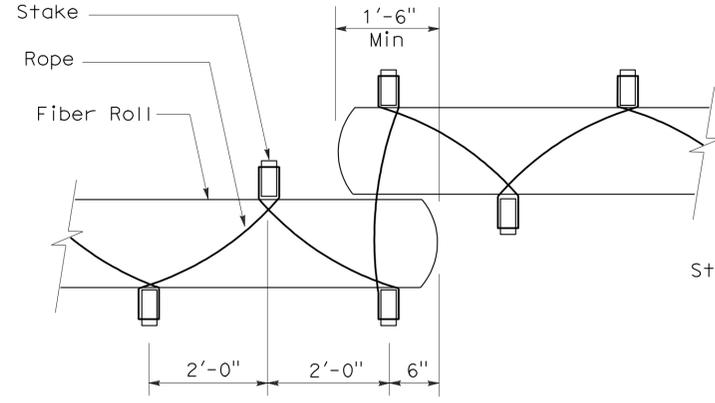
To accompany plans dated 12-24-12



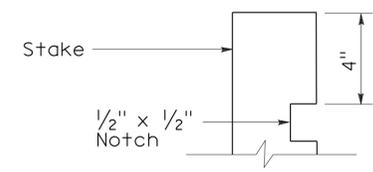
**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 1)**



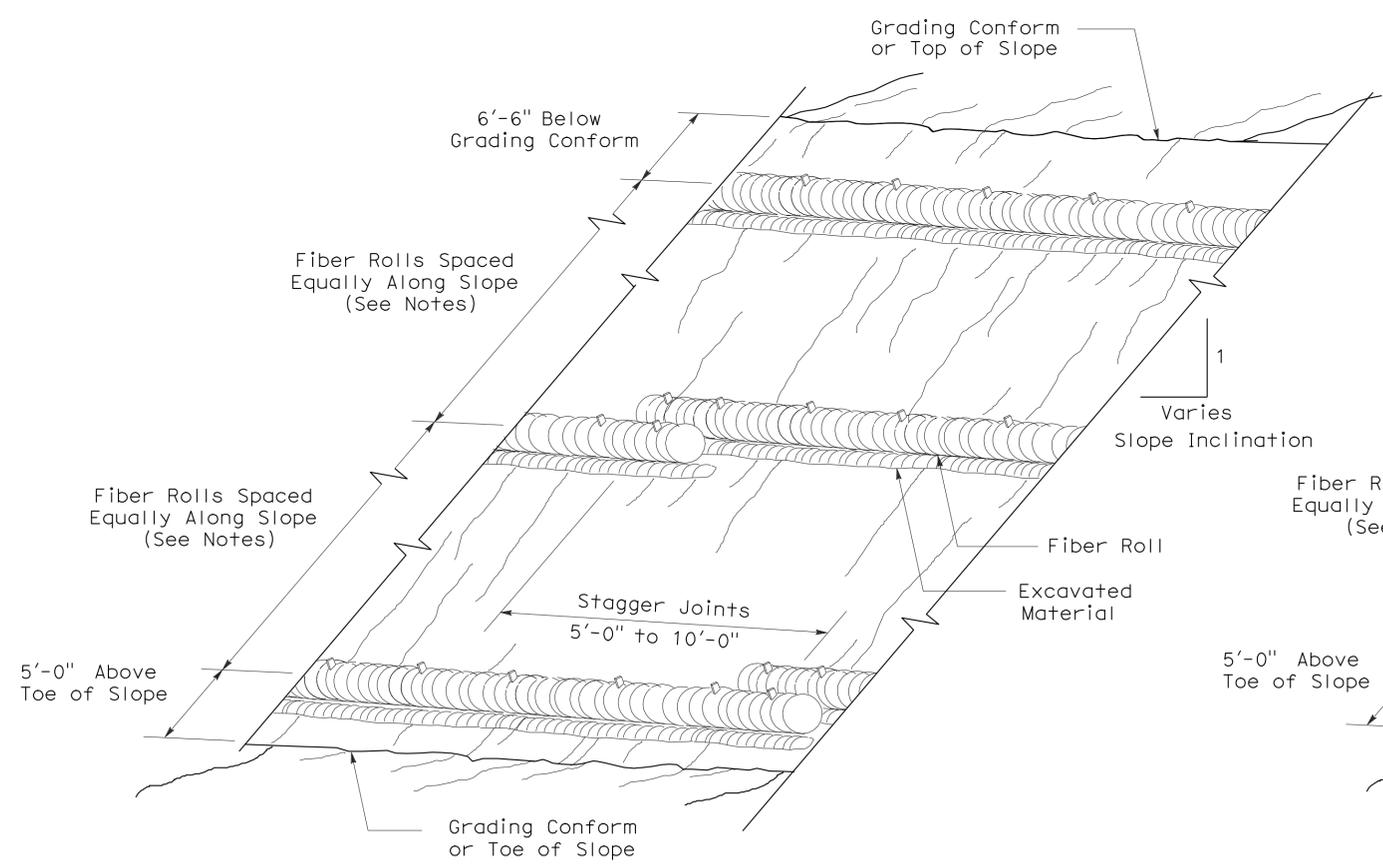
**SECTION**  
**TEMPORARY FIBER ROLL (TYPE 2)**



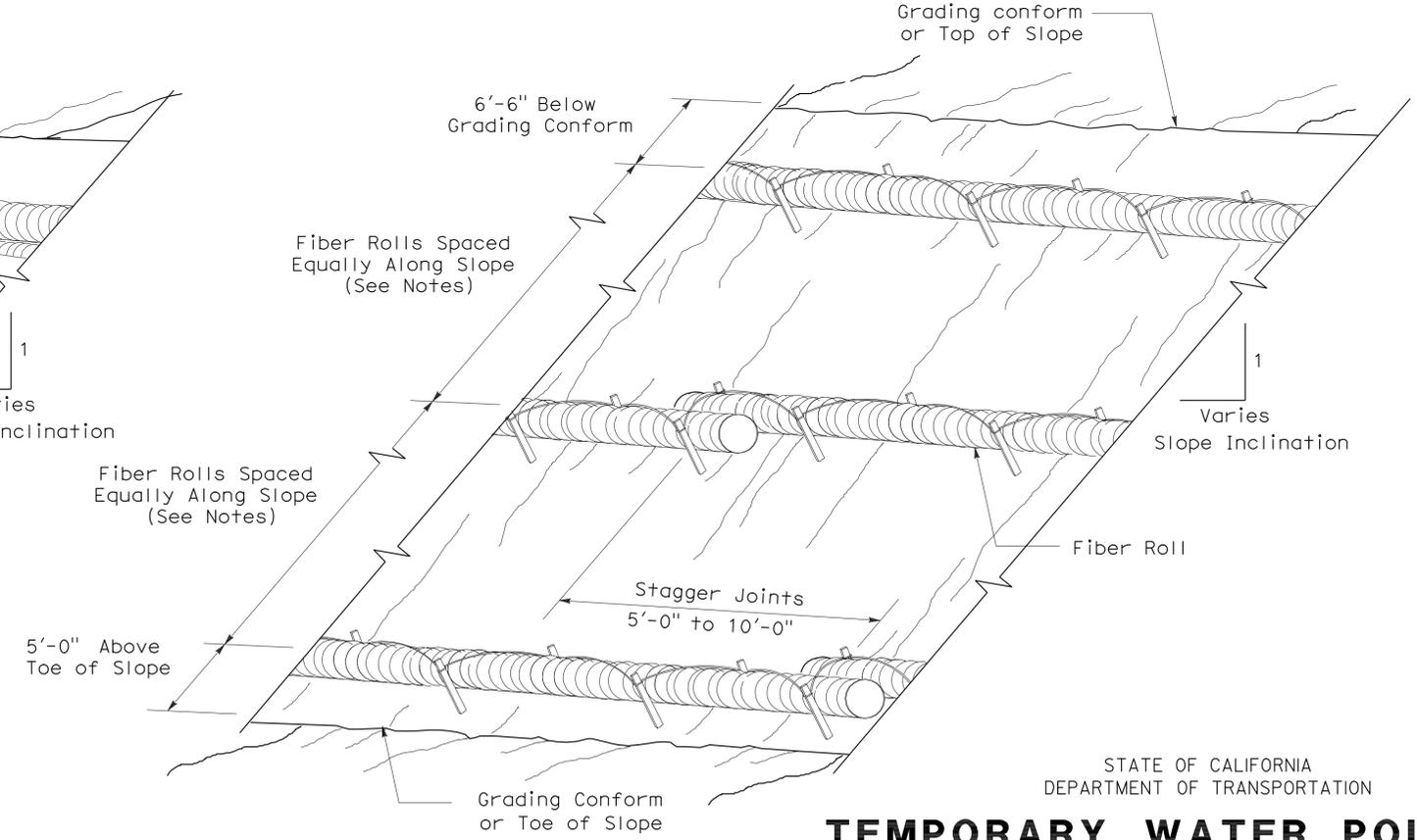
**PLAN**  
**ELEVATION**  
**STAKE NOTCH DETAIL**



- 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)**

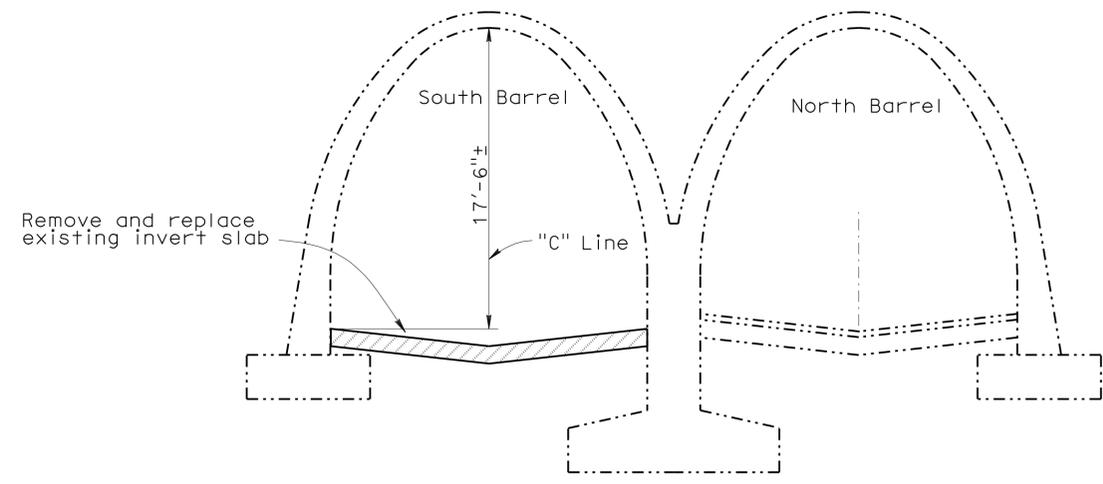
NO SCALE

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**

2006 REVISED STANDARD PLAN RSP T56

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	18	21
 REGISTERED CIVIL ENGINEER DATE 3-06-12					
12-24-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.</small>					

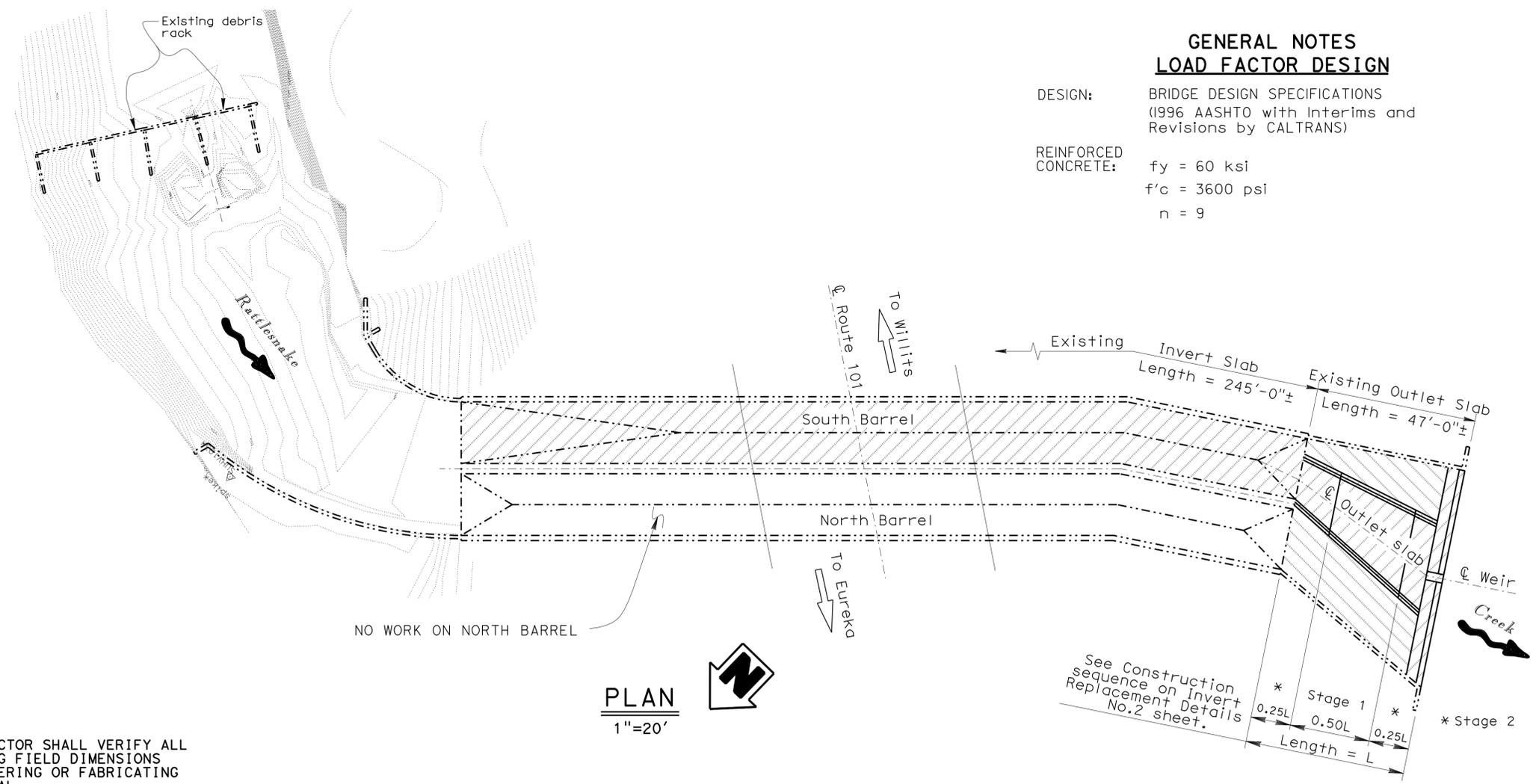


**TYPICAL SECTION**

3/16" = 1'

**NOTES:**

- Indicates existing structure.
-  Indicates limits of remove and replace existing invert and outlet slabs. Temporary support required before removing existing concrete inside the culvert.
- For details not shown see Drainage Plan and Profile and Drainage Details sheets in ROAD PLANS.
-  Indicates limits of overlay existing outlet slabs with 4" concrete with #3 Cont. @ 18 Max. each way.



**PLAN**  
1" = 20'

**GENERAL NOTES**  
**LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

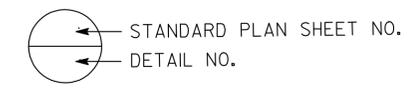
REINFORCED CONCRETE:  $f_y = 60$  ksi  
 $f'_c = 3600$  psi  
 $n = 9$

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN
2	INVERT REPLACEMENT DETAILS NO. 1
3	INVERT REPLACEMENT DETAILS NO. 2
4	INVERT REPLACEMENT DETAILS NO. 3

**STANDARD PLANS DATED MAY 2006**

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)



RATTLESNAKE CREEK ARCH CULVERT BR. NO. 10-0029

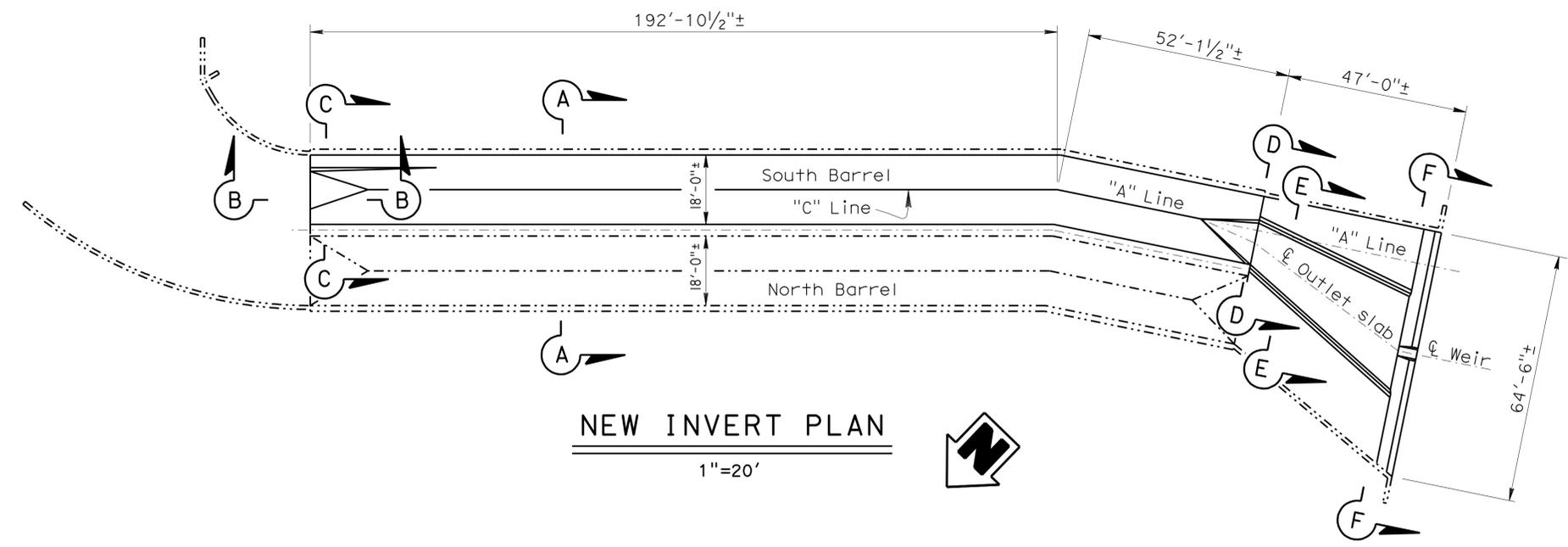
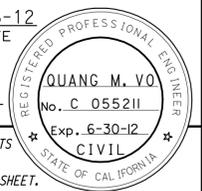
QUANTITIES

ITEM	QUANTITY	UNIT
ARCH CULVERT REMOVAL (PORTION)	LUMP SUM	
STRUCTURAL CONCRETE, ARCH CULVERT	240	CY
BAR REINFORCING STEEL (ARCH CULVERT)	9,300	LB
MISCELLANEOUS METAL (BRIDGE)	4,500	LB

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

 DESIGN ENGINEER 3-06-12	DESIGN	BY Quang Vo	CHECKED Arlene Frank	LAYOUT	BY Trung Lam	CHECKED Arlene Frank	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	10-0029	<b>RATTLESNAKE CREEK ARCH CULVERT-REPLACE INVERT</b> <b>GENERAL PLAN</b>				
	DETAILS	BY Trung Lam	CHECKED Arlene Frank	SPECIFICATIONS	BY Mary Kopsa	CHECKED Mary Kopsa			POST MILE	84.01					
	QUANTITIES	BY Quang Vo	CHECKED Arlene Frank												
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3		UNIT: 3488 PROJECT NUMBER & PHASE: 0100000166 1 CONTRACT NUMBER: 01-412211		DISREGARD PRINTS BEARING EARLIER REVISION DATES → 3-06-12		SHEET	OF
										1	4				

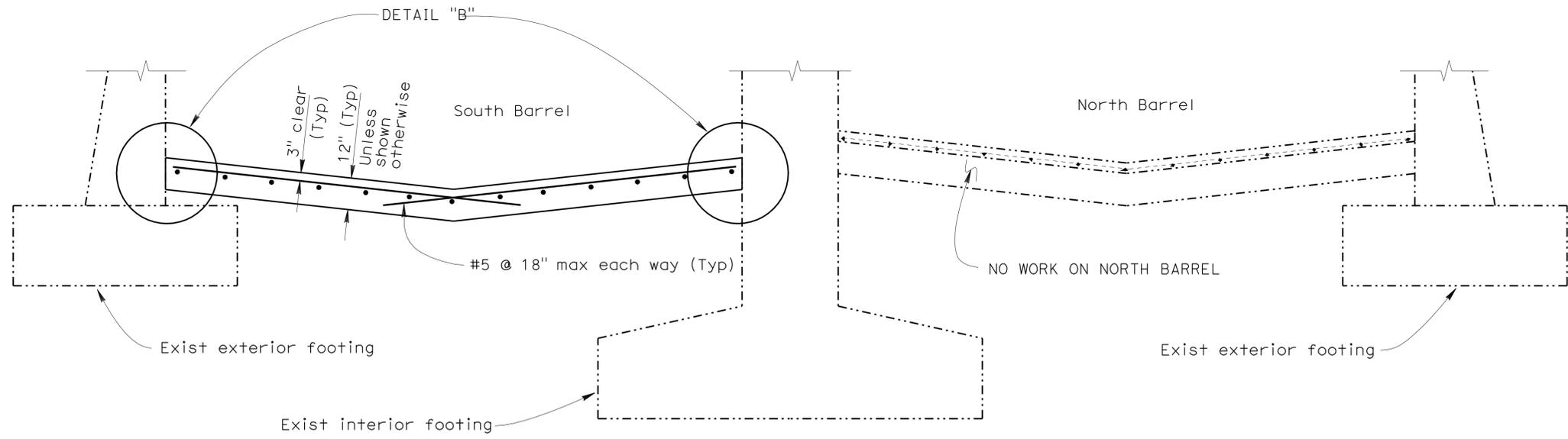
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	19	21
REGISTERED CIVIL ENGINEER			DATE	3-06-12	
PLANS APPROVAL DATE			12-24-12		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



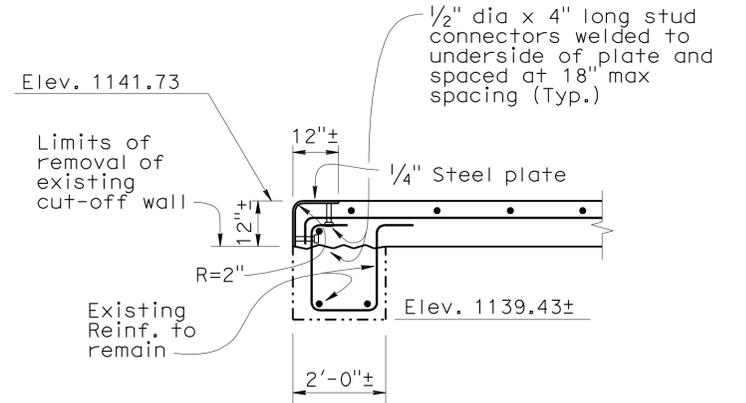
**NEW INVERT PLAN**  
1"=20'



**NOTES:**  
 ----- Indicates existing structure.  
 For details not shown see Drainage Plan and Profile and Drainage Details sheets in ROAD PLANS.



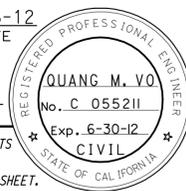
**SECTION A-A**  
1/2"=1'-0"

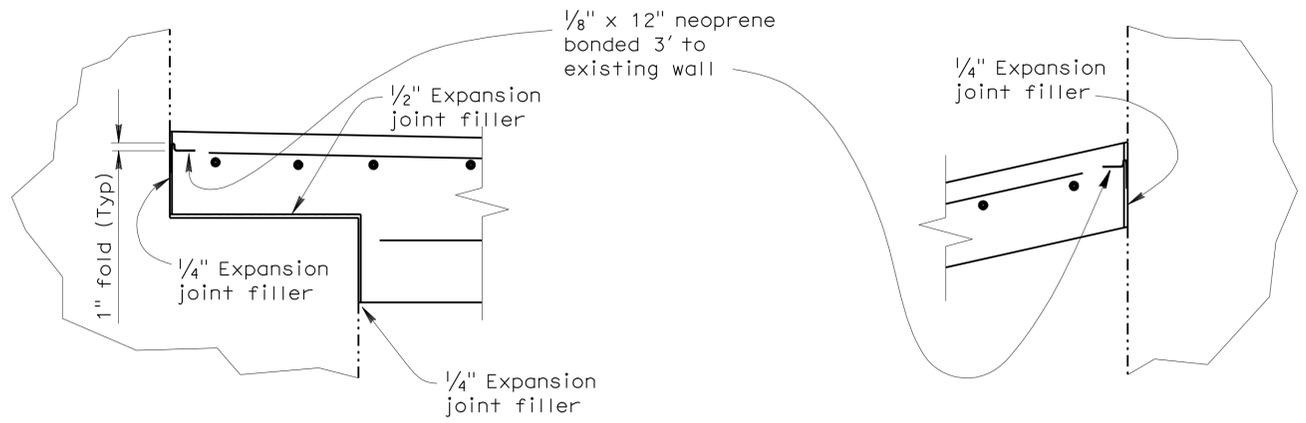


**SECTION B-B**  
1/2"=1'-0"

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

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Quang Vo	CHECKED Arlene Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	RATTLESNAKE CREEK ARCH CULVERT-REPLACE INVERT INVERT REPLACEMENT DETAILS NO. 1		
	DETAILS	BY Trung Lam	CHECKED Arlene Frank			10-0029			
	QUANTITIES	BY Quang Vo	CHECKED Arlene Frank			POST MILE 84.01			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0100000166 1 CONTRACT NUMBER: 01-412211	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	20	21
 REGISTERED CIVIL ENGINEER			3-06-12	DATE	
12-24-12 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.</small>					



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

**DETAIL "B"**  
1/2"=1'-0"

**NOTES:**  
 ----- Indicates existing structure.  
 For details not shown see Drainage Plan and Profile and Drainage Details sheets in ROAD PLANS.

TEMPORARY SUPPORT LOADS TABLE

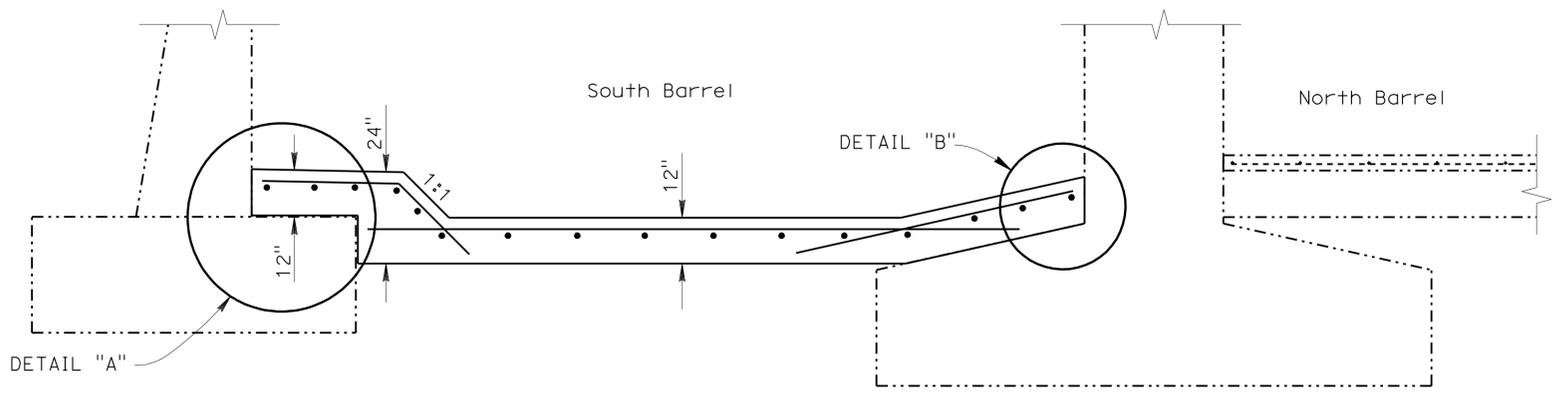
Location	Lateral Support Loadings
North Barrel	30 K/ft
South Barrel	30 K/ft

Temporary Support Design Notes

The temporary support loads shown in the table is the resultant forces of the soil pressure on the culvert located approx. 3 feet above the top of the existing invert slab.

Outlet Slab Construction Sequence:

Remove and replace middle half of outlet slab. (See General Plan sheet Stage 1).  
 Remove enough existing concrete at each end to provide for 9" lap splices of new #5 longitudinal reinforcement.  
 After middle half has attained a minimum f'c of 3600 psi or 28 days, whichever comes first, the remaining quarter portions at each end shall be removed and replaced. (See General Plan sheet Stage 2).



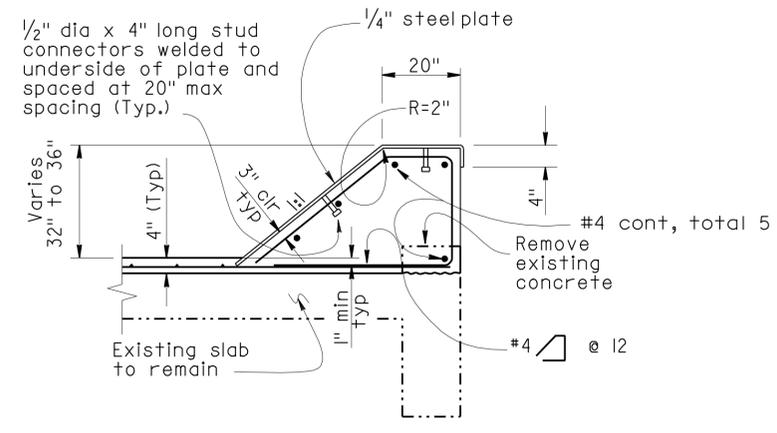
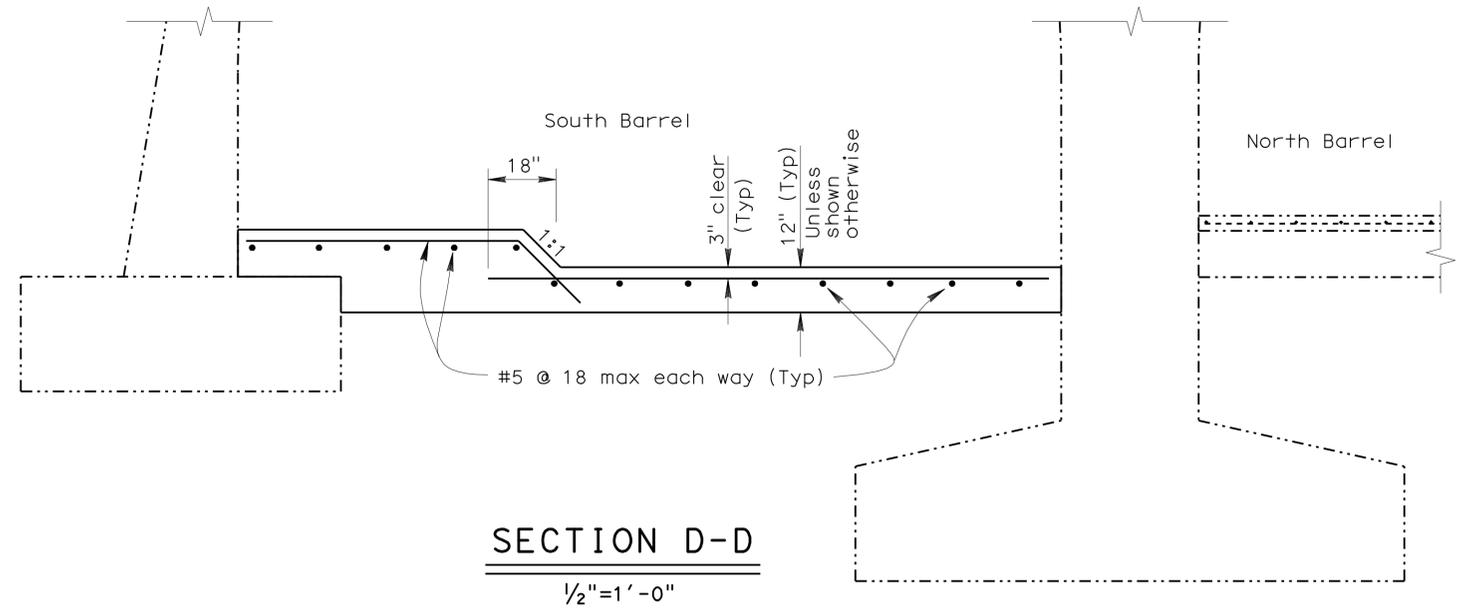
**SECTION C-C**  
1/2"=1'-0"

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

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Quang Vo	CHECKED Arlene Frank	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	10-0029	<b>RATTLESNAKE CREEK ARCH CULVERT-REPLACE INVERT</b> <b>INVERT REPLACEMENT DETAILS NO. 2</b>	
	DETAILS	BY Trung Lam	CHECKED Arlene Frank		POST MILE	84.01		
	QUANTITIES	BY Quang Vo	CHECKED Arlene Frank		UNIT: 3488	PROJECT NUMBER & PHASE: 0100000166 1		CONTRACT NUMBER: 01-412211
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 3-06-12	SHEET OF 3 4

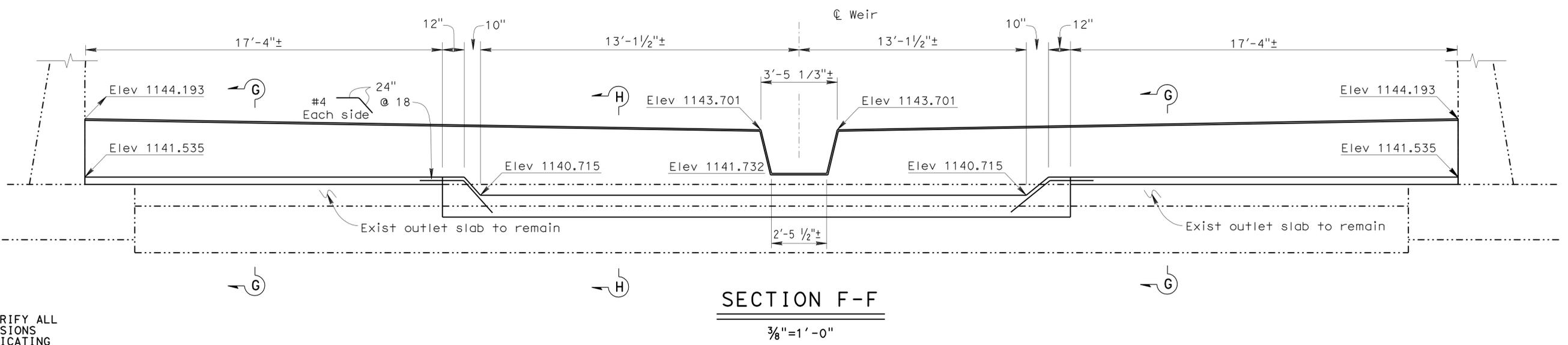
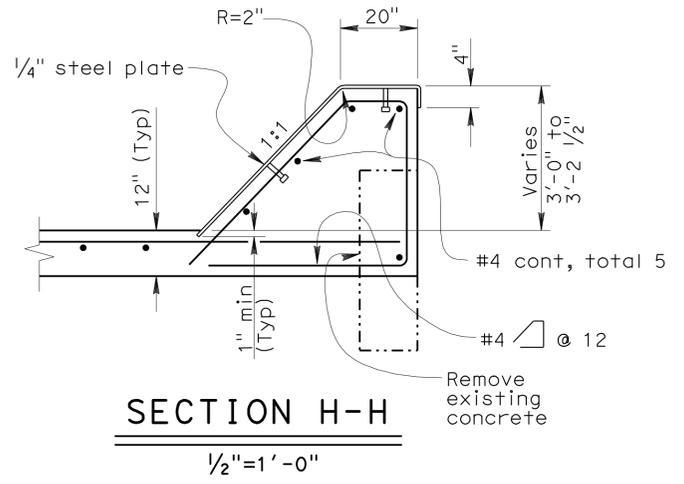
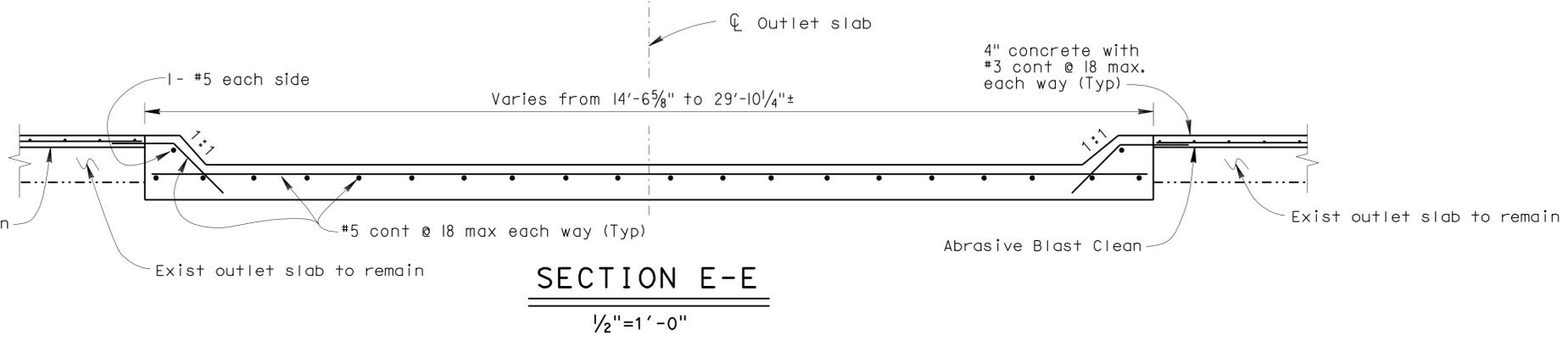
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	101	R84.0	21	21
REGISTERED CIVIL ENGINEER			DATE	3-06-12	
PLANS APPROVAL DATE			12-24-12		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



**NOTES:**

- Indicates existing structure.
- For details not shown see Drainage Plan and Profile and Drainage Details sheets in ROAD PLANS.
- All steel plates shall be galvanized.



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

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Quang Vo	CHECKED Arlene Frank	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	10-0029	<b>RATTLESNAKE CREEK ARCH CULVERT-REPLACE INVERT</b>	
	DETAILS	BY Trung Lam	CHECKED Arlene Frank			POST MILE	84.01		<b>INVERT REPLACEMENT DETAILS NO. 3</b>
	QUANTITIES	BY Quang Vo	CHECKED Arlene Frank			UNIT: 3488	PROJECT NUMBER & PHASE: 0100000166 1		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 4 OF 4		