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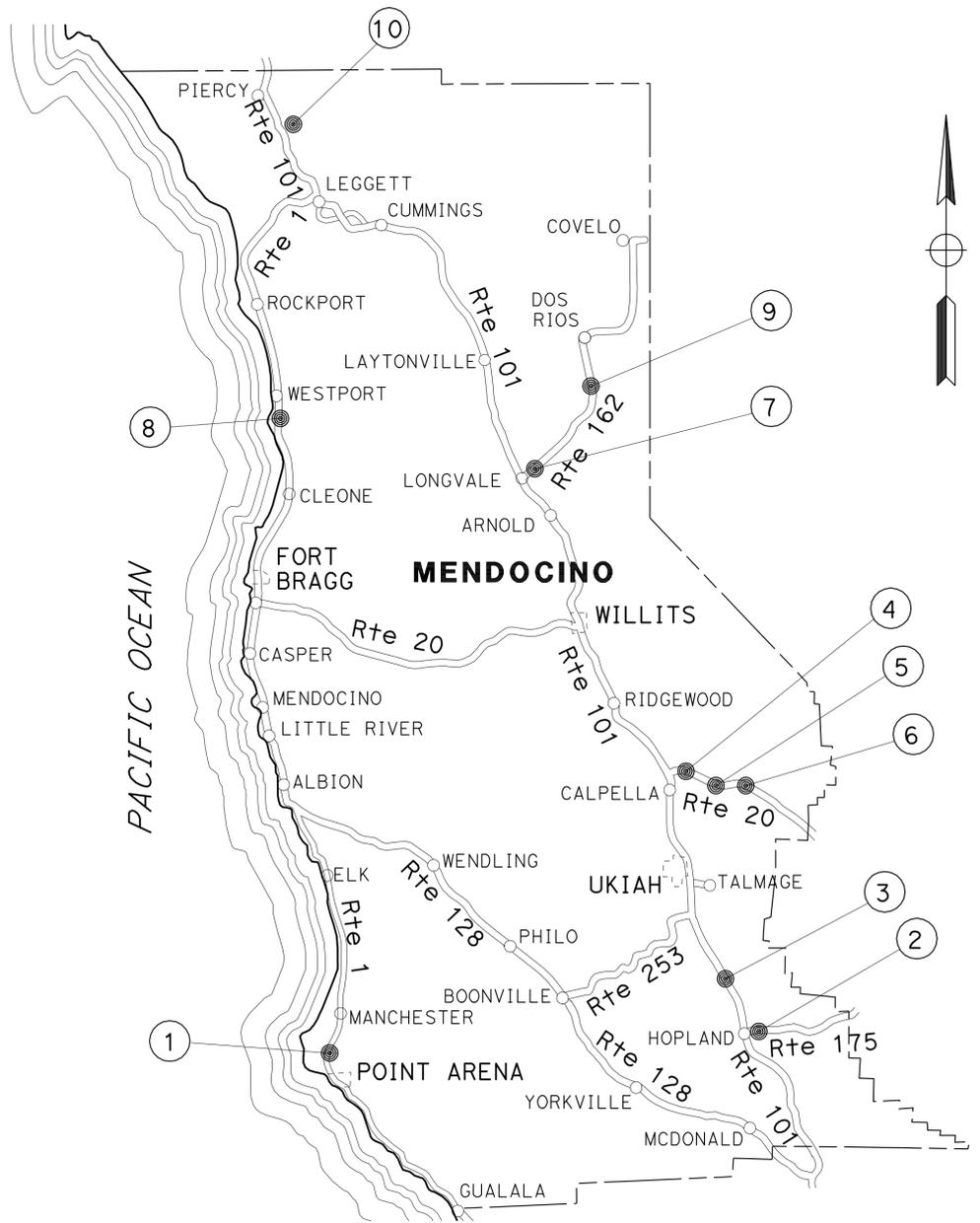
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN MENDOCINO COUNTY**  
**AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	1	27

LOCATION MAP



LOCATIONS OF CONSTRUCTION					
LOCATION	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Men	1	18.5	GARCIA RIVER	10-0113
2	Men	175	0.45	RUSSIAN RIVER	10-0045
3	Men	101	15.94	McNAB CREEK	10-0004
4	Men	20	33.63	RUSSIAN RIVER BOH	10-0182
5	Men	20	36.36	EAST FORK RUSSIAN RIVER	10-0184
6	Men	20	R37.9	COLD CREEK (#1)	10-0040
7	Men	162	0.7	OUTLET CREEK	10-0233
8	Men	1	75.0	BLUE SLIDE GULCH	10-0166
9	Men	162	10.08	RODEO CREEK	10-0237
10	Men	271	18.39	SIDEHILL VIADUCT (McCOY CREEK)	10-0100

PROJECT MANAGER  
**Royal B. McCarthy**  
 DESIGN ENGINEER  
**Royal B. McCarthy**

PROJECT ENGINEER      DATE 1/30/13  
 REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER  
**James T. Van Bonn**  
 No. 70723  
 Exp. 6-30-13  
 CIVIL  
 STATE OF CALIFORNIA

January 1, 2013  
 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."

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN

REVISOR BY DATE  
 REVISED BY DATE

Johnathon Jackson  
 James T. Van Bonn

CALCULATED-DESIGNED BY  
 CHECKED BY  
 Royal B. McCarthy

**CONSTRUCTION AREA SIGNS**

SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE (IN x IN)	NO OF POSTS AND SIZE (IN x IN)	NO.OF SIGNS
(A)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	108x42	2-6x6	14
(B)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	144x60	2-6x8	3
(C)	W20-1	ROAD WORK AHEAD	36x36	1-4x6	10
	C23B(CA)	BRIDGE REPAIR	36x18		
(D)	G20-1	ROAD WORK NEXT 5 MILES	90x48	2-6x6	3
	C23B(CA)	BRIDGE REPAIR	36x24		
(E)	W11-1	BICYCLE SYMBOL	36x36	1-4x6	16
	W16-1	SHARE THE ROAD	24x30		
(F)	W20-1	ROAD WORK AHEAD	36x36	1-4x6	9
(G)	G20-2	END ROAD WORK	36x18	1-4x4	14
(H)	G20-2	END ROAD WORK	48x24	1-4x6	11

**LEGEND**  
 CONSTRUCTION AREA

- NOTES:**
- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
  - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

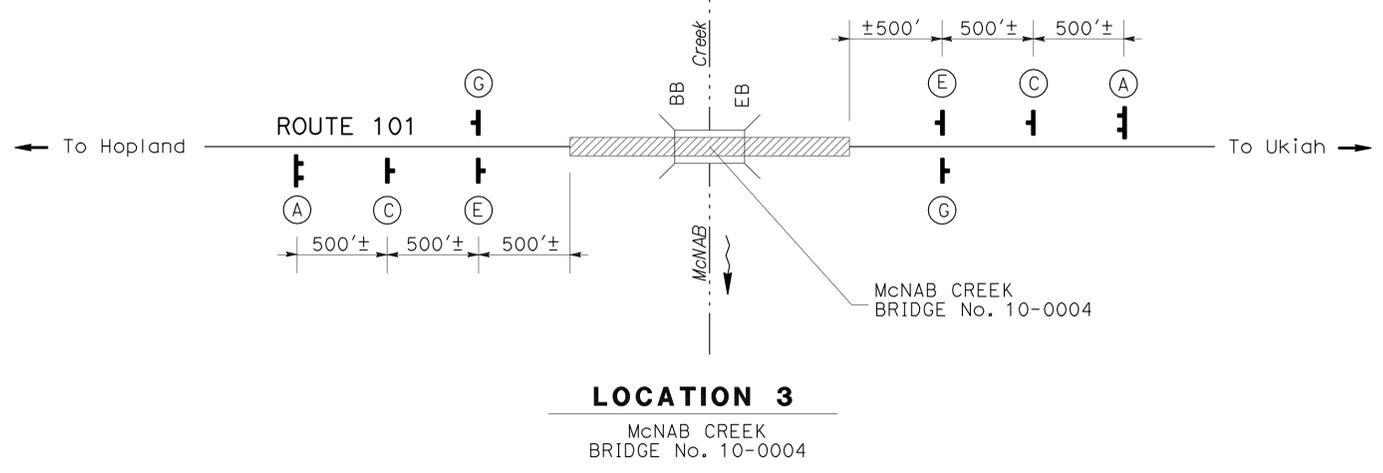
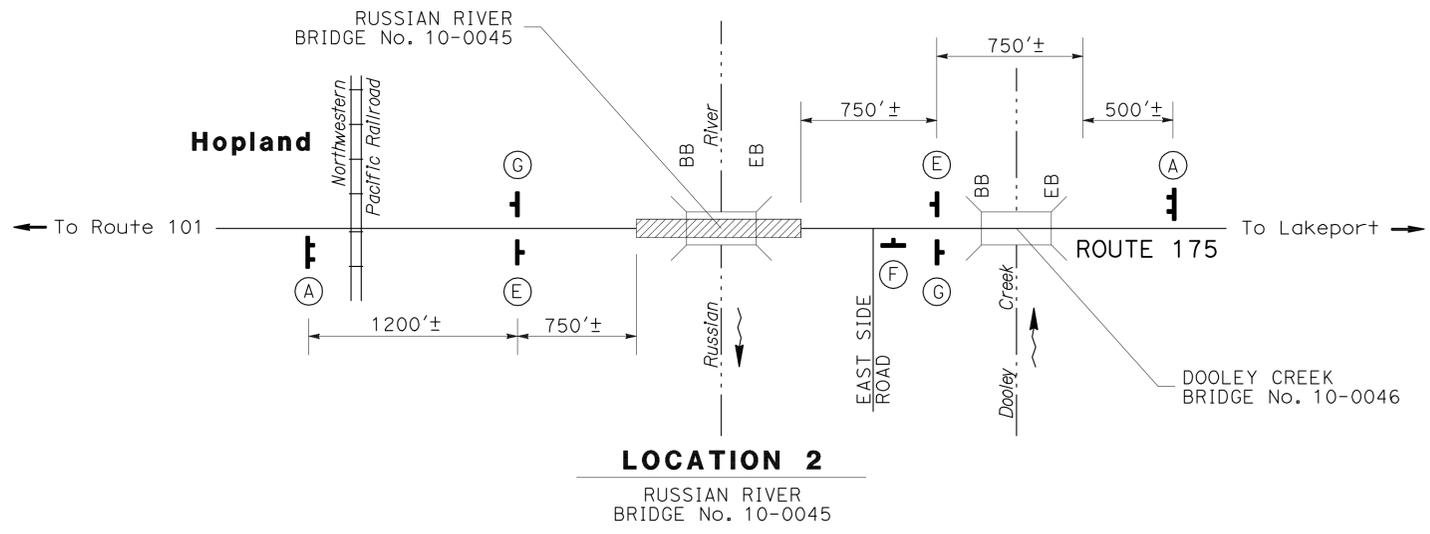
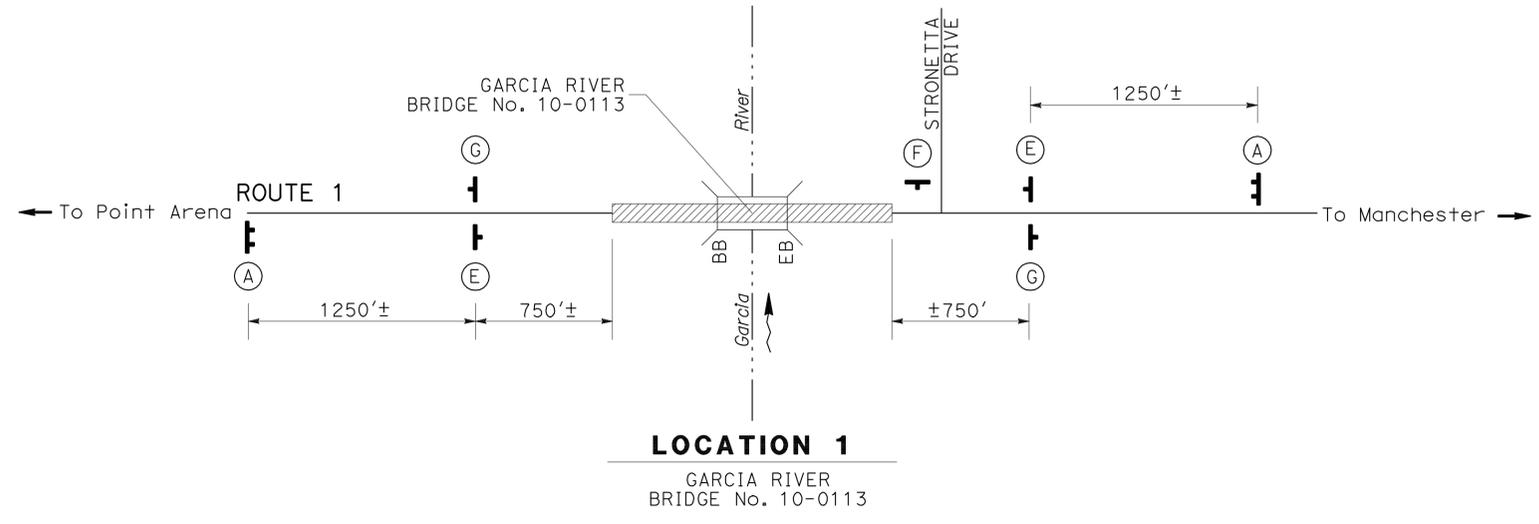
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	2	27

James T. Van Bonn 1/30/13  
 REGISTERED CIVIL ENGINEER DATE

January 30, 2013  
 PLANS APPROVAL DATE

James T. Van Bonn  
 No. 70723  
 Exp. 6-30-13  
 CIVIL

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**CONSTRUCTION AREA SIGNS CS-1**

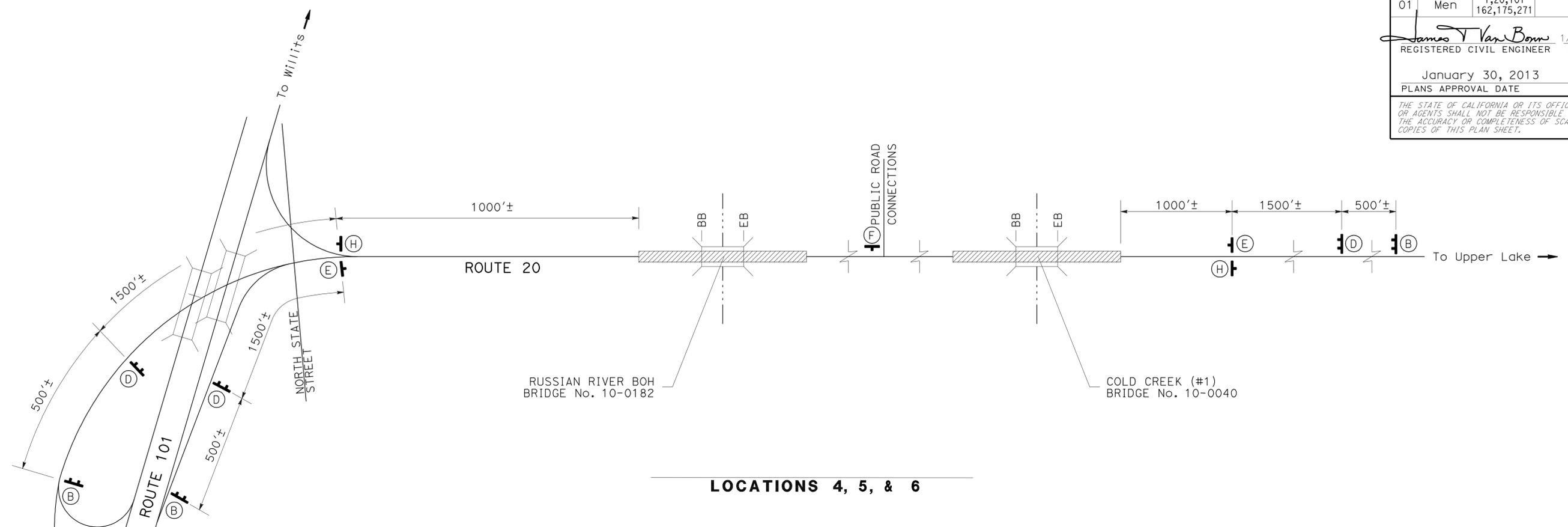
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	3	27

James T. Van Bonn 1/30/13  
 REGISTERED CIVIL ENGINEER DATE

January 30, 2013  
 PLANS APPROVAL DATE

James T. Van Bonn  
 No. 70723  
 Exp. 6-30-13  
 CIVIL

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**LOCATIONS 4, 5, & 6**

LOCATION OF PUBLIC ROAD CONNECTION SIGNS (N)		
LOCATION (PM)	SIGN	REMARKS
	(F) EA	
33.84 L+	1	ROAD 144
34.82 L+	1	ROAD A
35.50 R+	1	MARINA DRIVE
36.58 L+	1	VISTA DEL LAGO ROAD
38.06 R+	1	POTTER VALLEY ROAD
38.06 L+	1	POTTER VALLEY ROAD

- NOTES:
1. THIS TABLE FOR INFORMATION PUPOSES ONLY
  2. (N) INDICATES NOT A SEPERATE PAY ITEM

**CONSTRUCTION AREA SIGNS  
 CS-2**

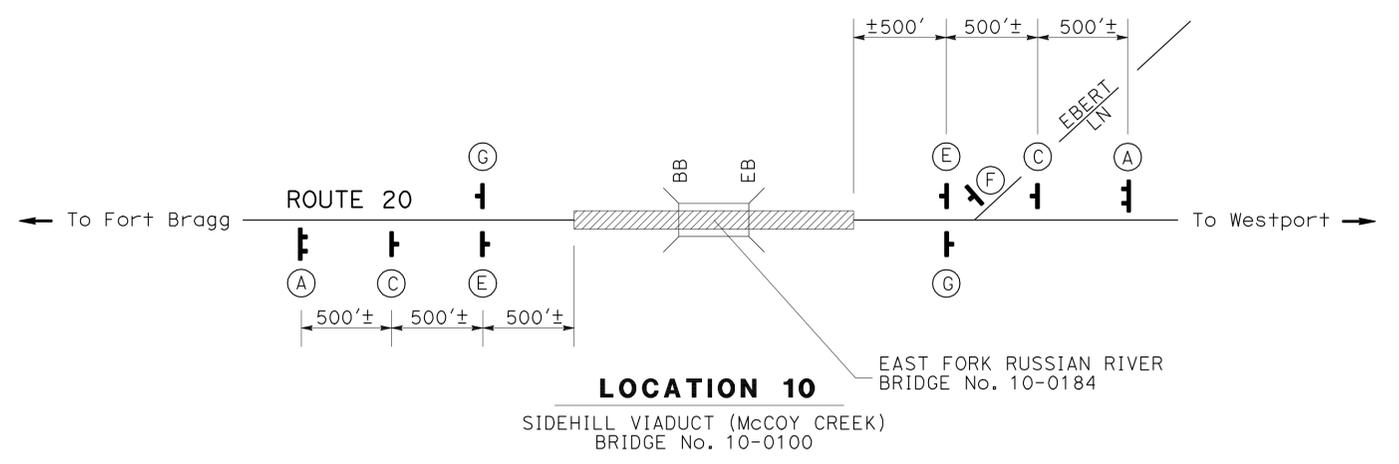
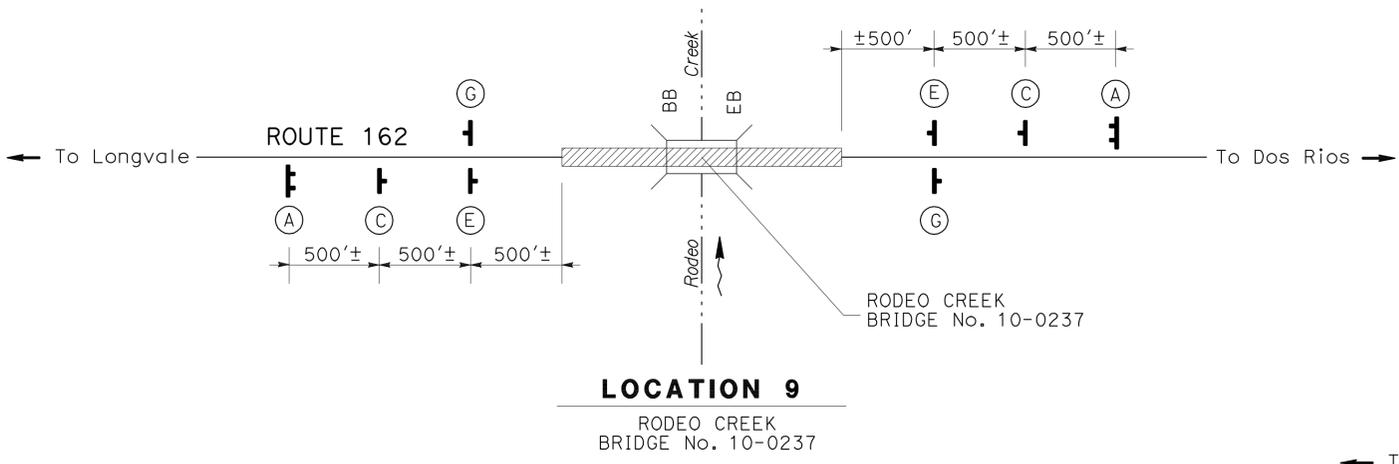
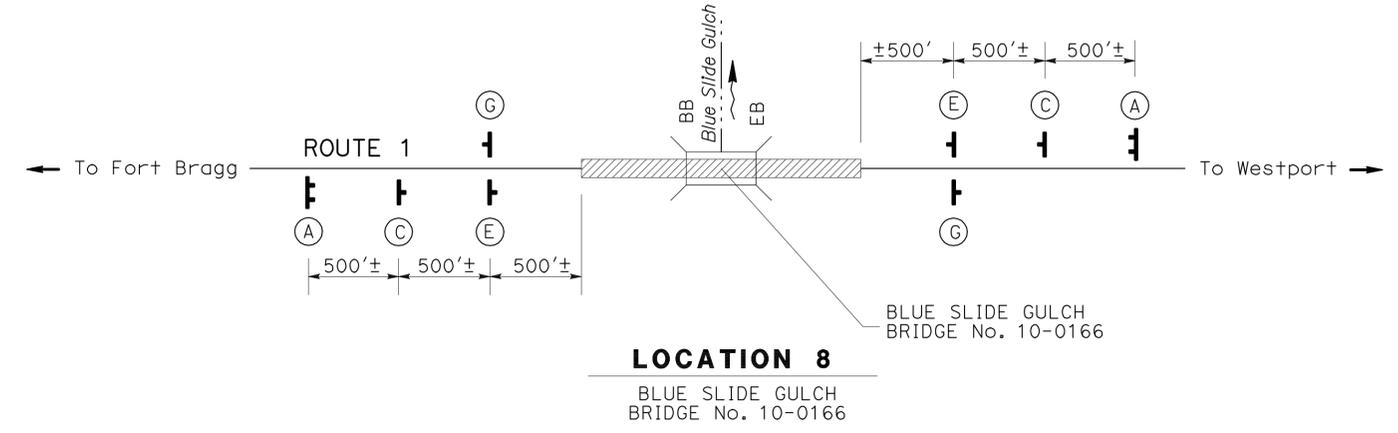
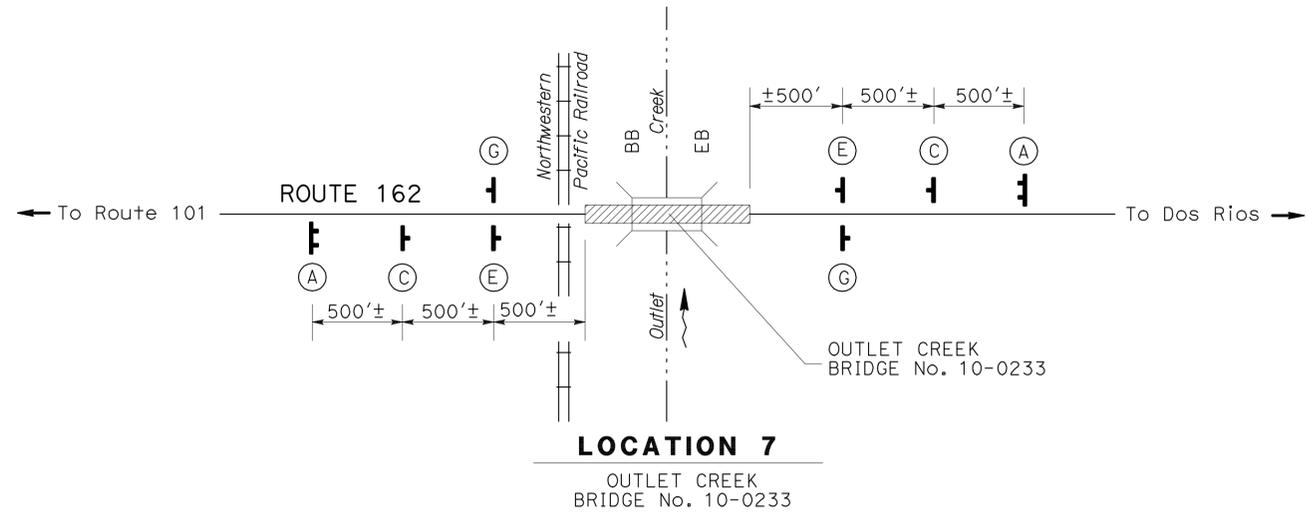
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	4	27

James T. Van Bonn 1/30/13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
 James T. Van Bonn  
 No. 70723  
 Exp. 6-30-13  
 CIVIL



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISED BY: [Blank] DATE REVISED: [Blank]  
 Johnathon Jackson  
 James T. Van Bonn

**CONSTRUCTION AREA SIGNS CS-3**

NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 CALCULATED/DESIGNED BY: James T. Van Bonn  
 CHECKED BY: James T. Van Bonn  
 REVISIONS: [Blank]

TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
①	W20-1	ROAD WORK AHEAD	36"x36"	1-6"x6"	2
②	C23B(CA)	BRIDGE REPAIR	36"x18"	1-4"x6"	2
	W5-3	ONE LANE BRIDGE	36"x36"		
③	TYPE-B	WARNING LIGHT	36"x36"	1-4"x6"	2
	W3-1	STOP AHEAD SYMBOL			
④	TYPE-B	WARNING LIGHT	30"x30"	1-4"x6"	2
	R1-1	STOP			
⑤	SP1	PROCEED WHEN CLEAR	24"x18"	1-4"x6"	2
	W1-4R	REVERSE CURVE SYMBOL	36"x36"		

EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.  
 WARNING LIGHTS SHALL BE TYPE-B, HIGH INTENSITY, AND FLASHING.

RELOCATE TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
⑤	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1

EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

TEMPORARY RAILING (TYPE K)			
LOCATION	TEMPORARY RAILING (TYPE K)	LF	REMARKS
FROM	TO		
PM 18.48	PM 18.58	480	STAGE 1
TOTAL		480	

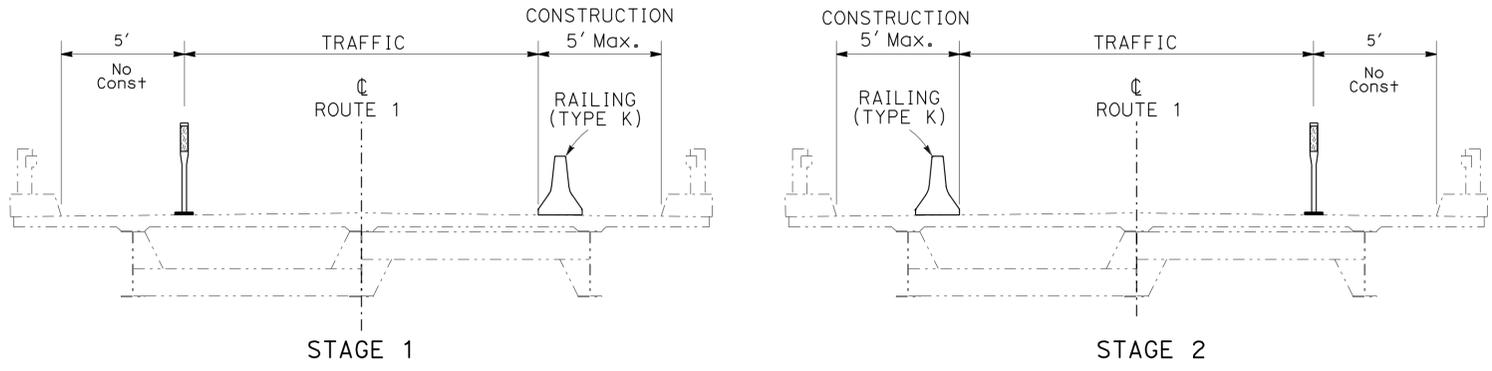
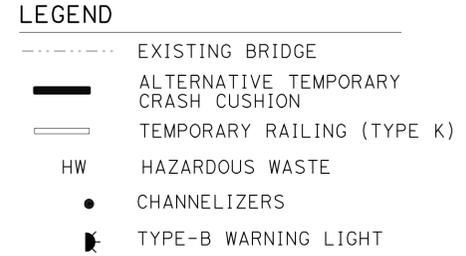
RELOCATE TEMPORARY RAILING (TYPE K)			
LOCATION	TEMPORARY RAILING (TYPE K)	LF	REMARKS
FROM	TO		
PM 18.48	PM 18.58	480	STAGE 2
TOTAL		480	

ALTERNATIVE TEMPORARY CRASH CUSHION		
LOCATION	EA	REMARKS
PM 18.48	1	STAGE 1 (BB)
PM 18.58	1	STAGE 1 (EB)
TOTAL		2

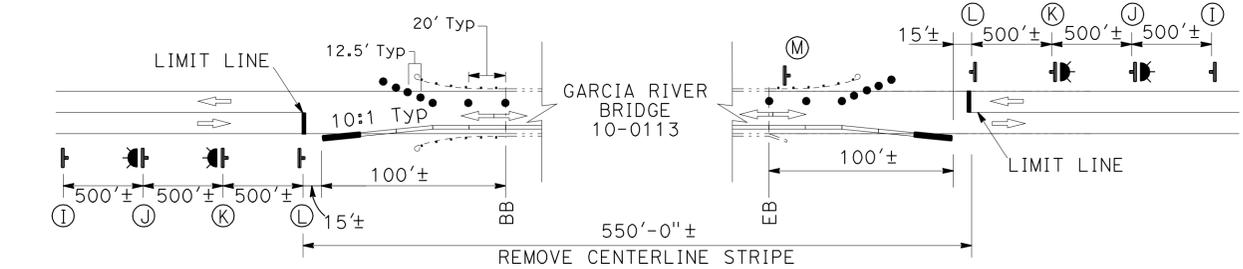
RELOCATE ALTERNATIVE TEMPORARY CRASH CUSHION		
LOCATION	EA	REMARKS
PM 18.48	1	STAGE 2 (BB)
PM 18.58	1	STAGE 2 (EB)
TOTAL		2

TEMPORARY PAVEMENT MARKING (TAPE)			
LOCATION	LEGEND	AREA SQFT	REMARKS
PM 18.48	LIMIT LINE	12	FEBT
PM 18.58	LIMIT LINE	12	FWBT
TOTAL		24	

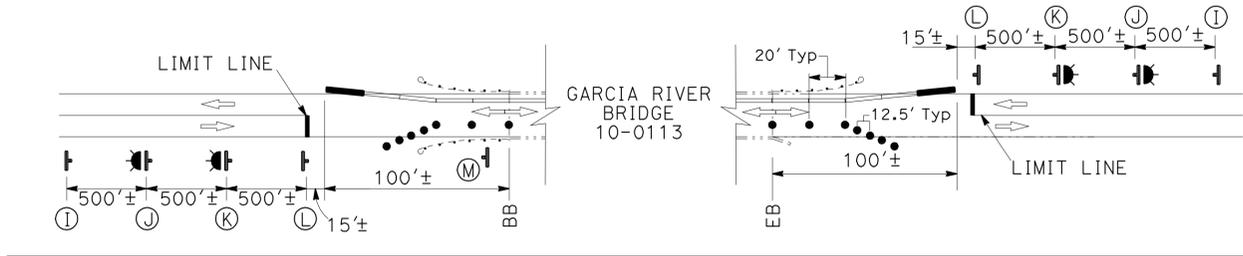
TRAFFIC STRIPE AND PAVEMENT MARKERS								
No.	LOCATION (PM)		DETAIL No.	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKERS	
	FROM	TO			REMOVE YELLOW (HW)	4" SOLID YELLOW	REMOVE (N) TYPE D	RETROREFLECTIVE TYPE D
1	18.48	18.59	22	550	1100	1100	46	46
TOTAL					1100	1100	46	46



**LOCATION 1**  
 GARCIA RIVER  
 BRIDGE No. 10-0113



**STAGE 1**



**STAGE 2**

CHANNELIZER			
LOCATION	CHANNELIZER (SURFACE MOUNTED)	EA	REMARKS
FROM	TO		
PM 18.8	PM 18.58	58	STAGE 1 & 2
TOTAL		58	

**STAGE CONSTRUCTION DETAILS AND QUANTITIES SCD-1**

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	5	27

James T. Van Bonn 1/30/13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy  
 REVISIONS: x  
 DESIGNED BY: James T. Van Bonn  
 CHECKED BY:  
 SUPERVISOR: Johnathon Jackson  
 DATE: 1/30/13  
 REVISIONS: x  
 DATE:

TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
N	W20-1	ROAD WORK AHEAD	36"x36"	WOOD POLE	2
	C23B(CA) C29	BRIDGE REPAIR 1500 FEET	36"x18" 20"x7"		
O	W5-3	ONE LANE BRIDGE	36"x36"	WOOD POLE	2
	C29	1000 FEET	20"x7"		
P	W3-3	SIGNAL SYMBOL	36"x36"	WOOD POLE	2
Q	R10-6	STOP HERE ON RED	24"x36"	1-4"x4"	2
R	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1

- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
- SEE SHEET E-2 FOR WOOD POLE DETAILS

RELOCATE TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
R	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1

EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

TEMPORARY RAILING (TYPE K)			
LOCATION		TEMPORARY RAILING (TYPE K)	REMARKS
FROM	TO	LF	
PM 0.44	PM 0.55	600	STAGE 1
TOTAL		600	

RELOCATE TEMPORARY RAILING (TYPE K)			
LOCATION		TEMPORARY RAILING (TYPE K)	REMARKS
FROM	TO	LF	
PM 0.42	PM 0.45	140	STAGE 2
PM 0.53	PM 0.54	60	STAGE 2
TOTAL		200	

ALTERNATIVE TEMPORARY CRASH CUSHION		
LOCATION	EA	REMARKS
PM 0.44	1	STAGE 1 (BB)
TOTAL	1	

RELOCATE ALTERNATIVE TEMPORARY CRASH CUSHION		
LOCATION	EA	REMARKS
PM 0.54	1	STAGE 2 (EB)
TOTAL	1	

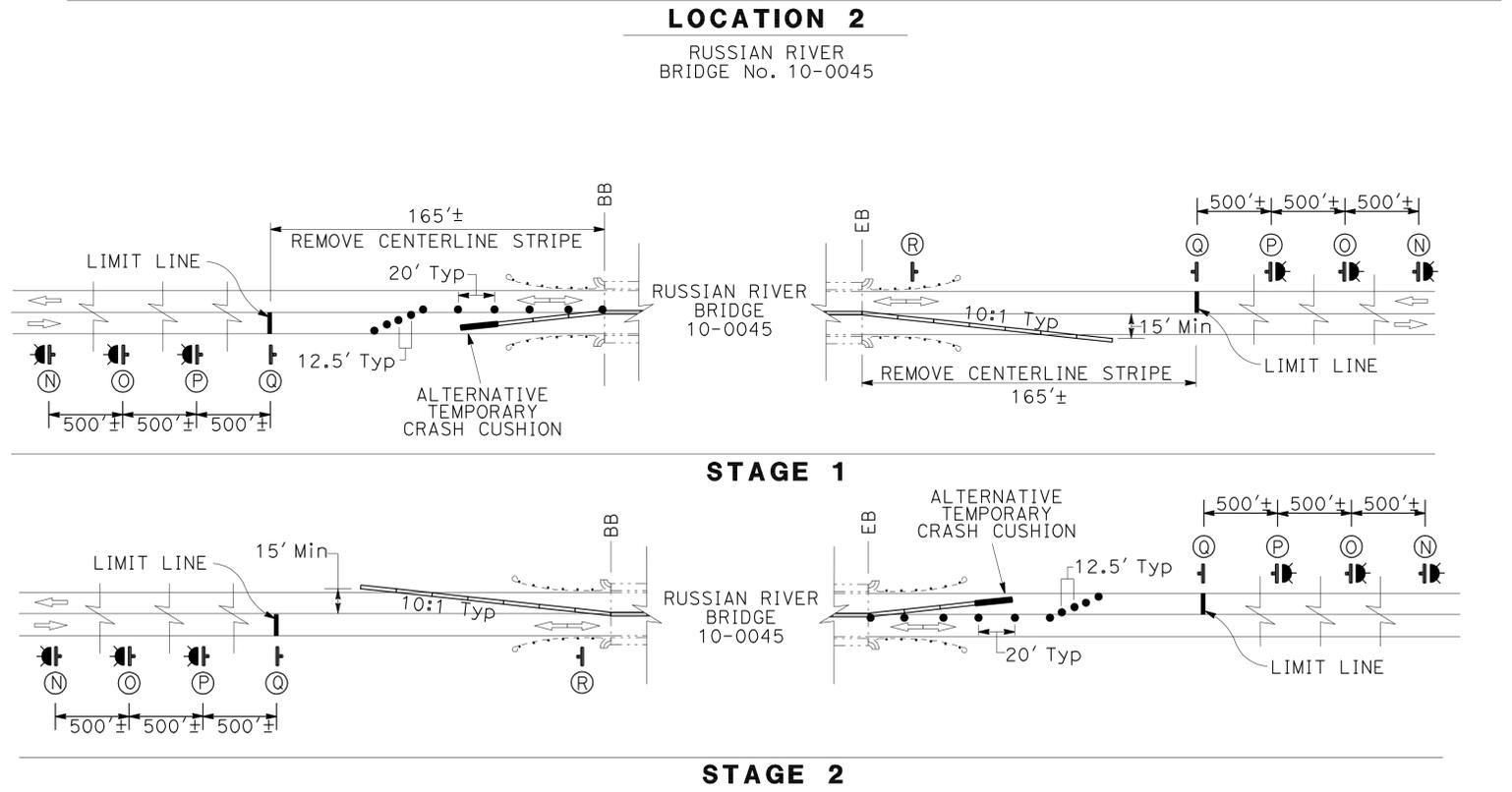
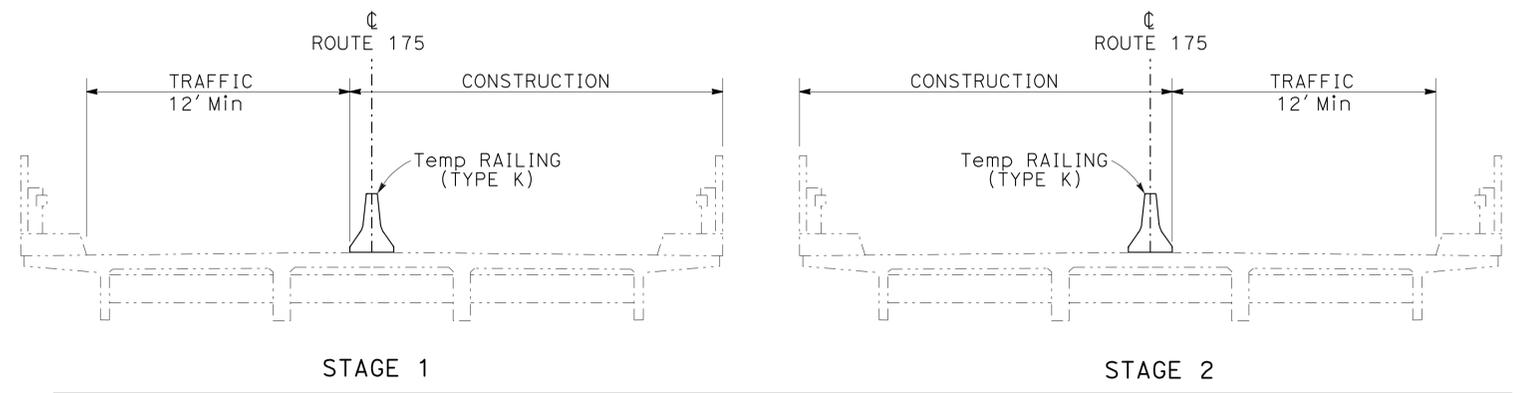
TEMPORARY PAVEMENT MARKING (TAPE)			
LOCATION	LEGEND	AREA SQFT	REMARKS
PM 0.42	LIMIT LINE	12	FEBT
PM 0.56	LIMIT LINE	12	FWBT
TOTAL		24	

TRAFFIC STRIPE AND PAVEMENT MARKERS								
LOCATION (PM)		DETAIL No.	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKERS		
No.				REMOVE YELLOW (HW)	4" SOLID YELLOW	REMOVE (N) TYPE D	RETROREFLECTIVE TYPE D	
1	0.42	0.45	22	165	330	330	12	12
1	0.53	0.56	22	165	330	330	12	12
TOTAL				660	660	660	24	24

CHANNELIZERS			
LOCATION		CHANNELIZER (SURFACE MOUNTED)	REMARKS
FROM	TO	EA	
PM 0.42	PM 0.45	10	STAGE 1
PM 0.53	PM 0.55	10	STAGE 2
TOTAL		20	



- LEGEND**
- EXISTING BRIDGE
  - ALTERNATIVE TEMPORARY CRASH CUSHION
  - TEMPORARY RAILING (TYPE K)
  - CHANNELIZERS
  - ⚡ FLASHING BEACON
  - HW HAZARDOUS WASTE



**STAGE CONSTRUCTION DETAILS AND QUANTITIES**  
**SCD-2**

NO SCALE

LAST REVISION DATE PLOTTED => 27-FEB-2013 00:00:00 TIME PLOTTED => 14:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	6	27

James T. Van Bonn 1/30/13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 James T. Van Bonn  
 No. 70723  
 Exp. 6-30-13  
 CIVIL

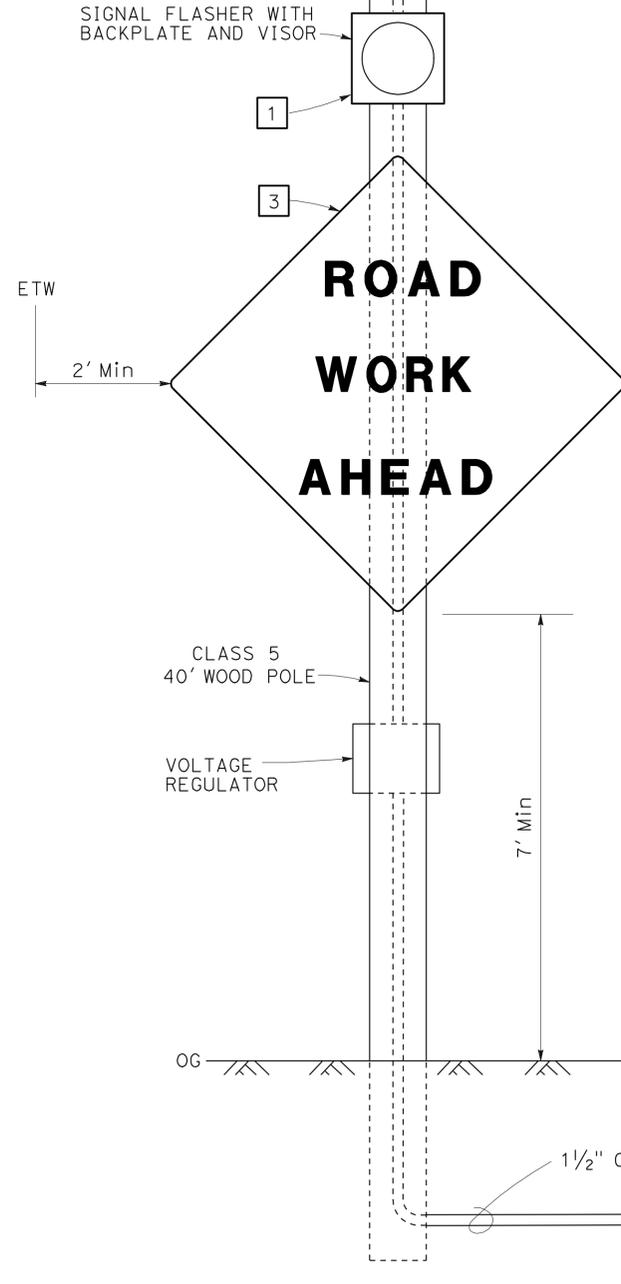


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC ELECTRICAL

**LEGEND:**

A-h = AMPERE HOUR

PHOTOVOLTAIC PANEL AND ADJUSTABLE MOUNT

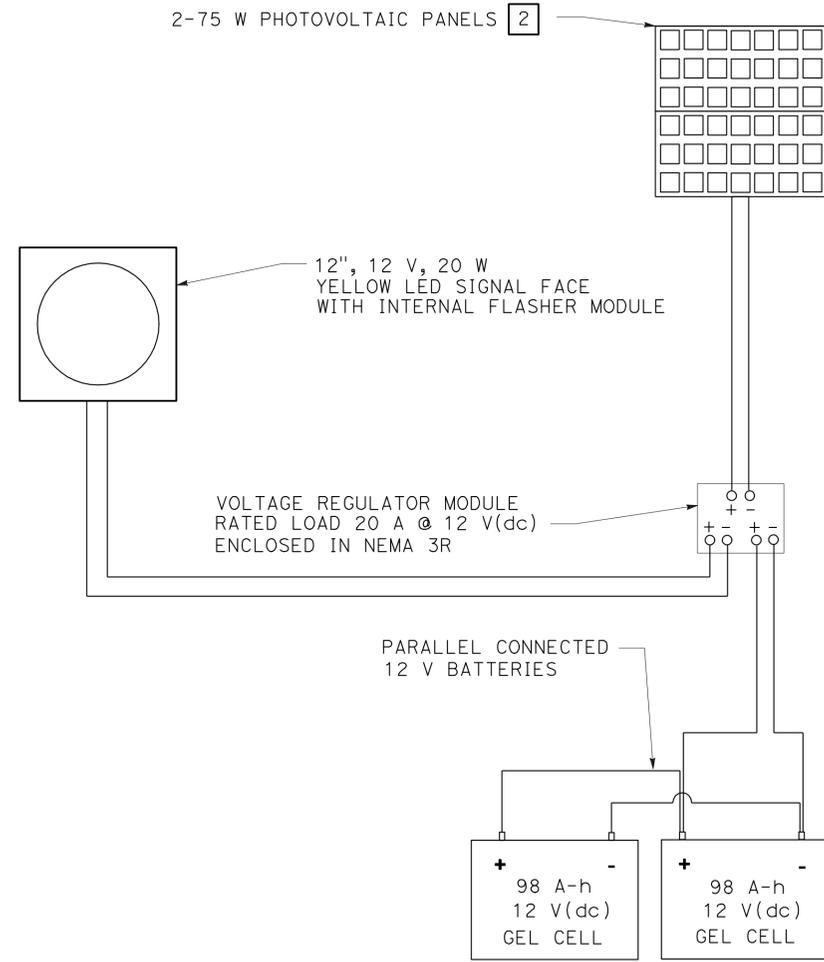


**FLASHING BEACON (SOLAR POWERED)**

**NOTES:**

- 1 A HOOD SHALL BE INSTALLED ON EACH FLASHER HEAD TO SHIELD THE LENS FROM DIRECT EXPOSURE OF SOLAR RADIATION.
- 2 THIS UNIT SHALL BE LOCATED IN AN UNSHADED AREA. WOOD POLE WITH PHOTOVOLTAIC PANELS SHALL BE LOCATED OUTSIDE THE CLEAR RECOVERY ZONE OR PROTECTED IN PLACE.
- 3 SEE SHEET SCD-2 FOR SIGNS N, O & P.

2-75 W PHOTOVOLTAIC PANELS



**CONNECTION DIAGRAM**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	8	27

*Brian T. Finck* 1/30/13  
 REGISTERED ELECTRICAL ENGINEER DATE

January 30, 2013  
 PLANS APPROVAL DATE

*Brian T. Finck*  
 No. 17756  
 Exp. 6-30-14  
 ELECTRICAL

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	9	27

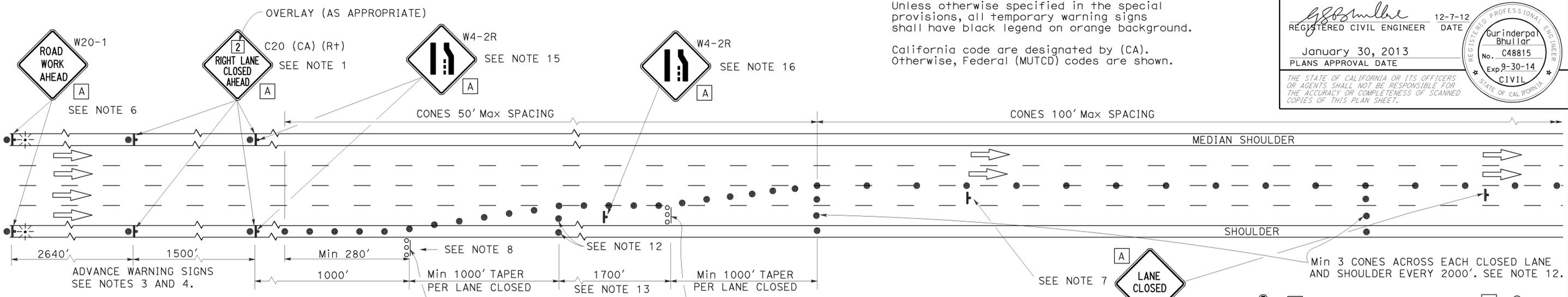
  

REGISTERED CIVIL ENGINEER	DATE
<i>Gurinderpal Bhullar</i>	12-7-12
No. C48815	
Exp 9-30-14	
CIVIL	

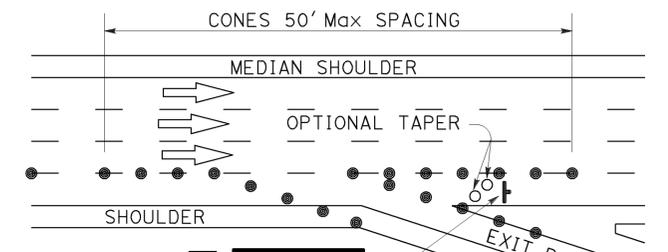
January 30, 2013  
PLANS APPROVAL DATE

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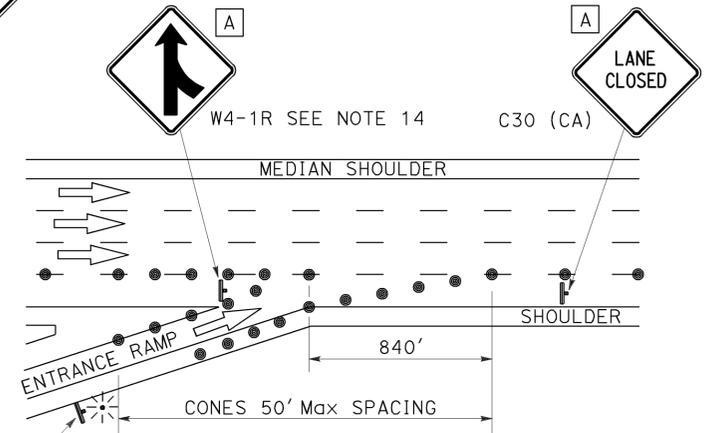
**NOTES:**  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.  
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



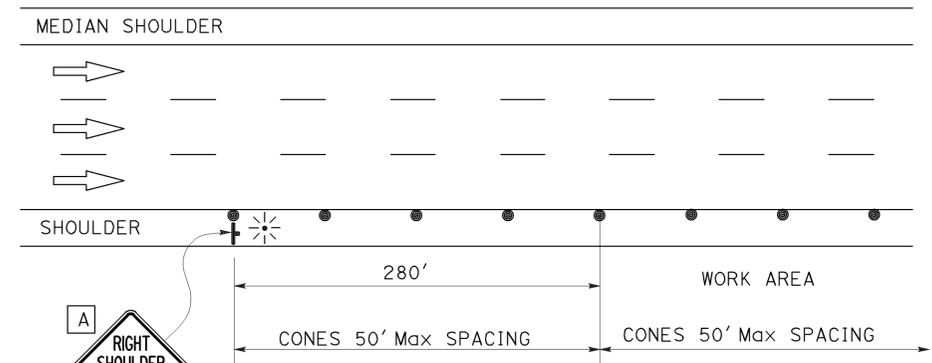
**LANE CLOSURE**



**LANE CLOSURE AT EXIT RAMP**



**LANE CLOSURE AT ENTRANCE RAMP**



**SHOULDER CLOSURE**

**NOTES:**

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
  - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
  - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 54" x 48"

**LEGEND**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

**TCS-1**

REVISOR BY  
DATE

CALCULATED/DESIGNED BY  
CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
*Caltrans*

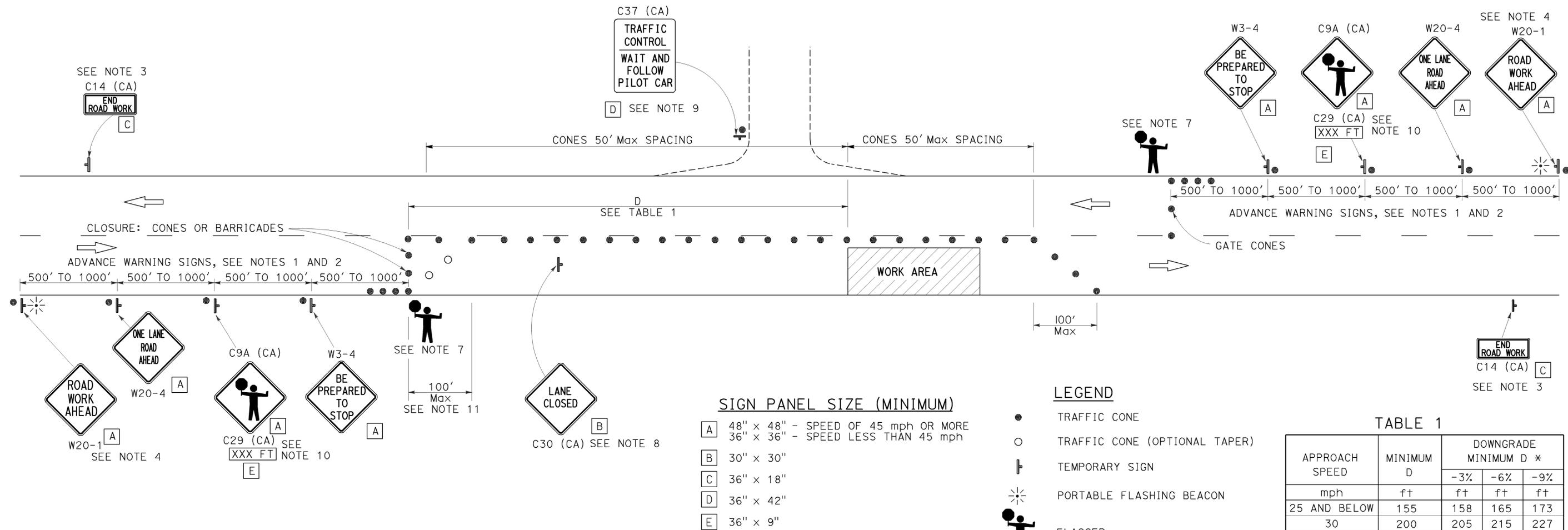
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	10	27

REGISTERED CIVIL ENGINEER  
 Gurinderpal Bhullar  
 No. C48815  
 Exp 9-30-14  
 CIVIL

12-7-12 DATE  
 January 30, 2013  
 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.

### TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



#### SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - SPEED OF 45 mph OR MORE  
36" x 36" - SPEED LESS THAN 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

#### LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊢ TEMPORARY SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

\* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

#### NOTES:

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

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

#### NOTES:

- Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT \_\_\_\_\_ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
- An optional C29 (CA) sign may be placed below the C9A (CA) sign.
- Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-2

REVISIONS: REVISED BY, DATE, CHECKED BY, CALCULATED/DESIGNED BY, FUNCTIONAL SUPERVISOR, DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA, Et-Alttrans



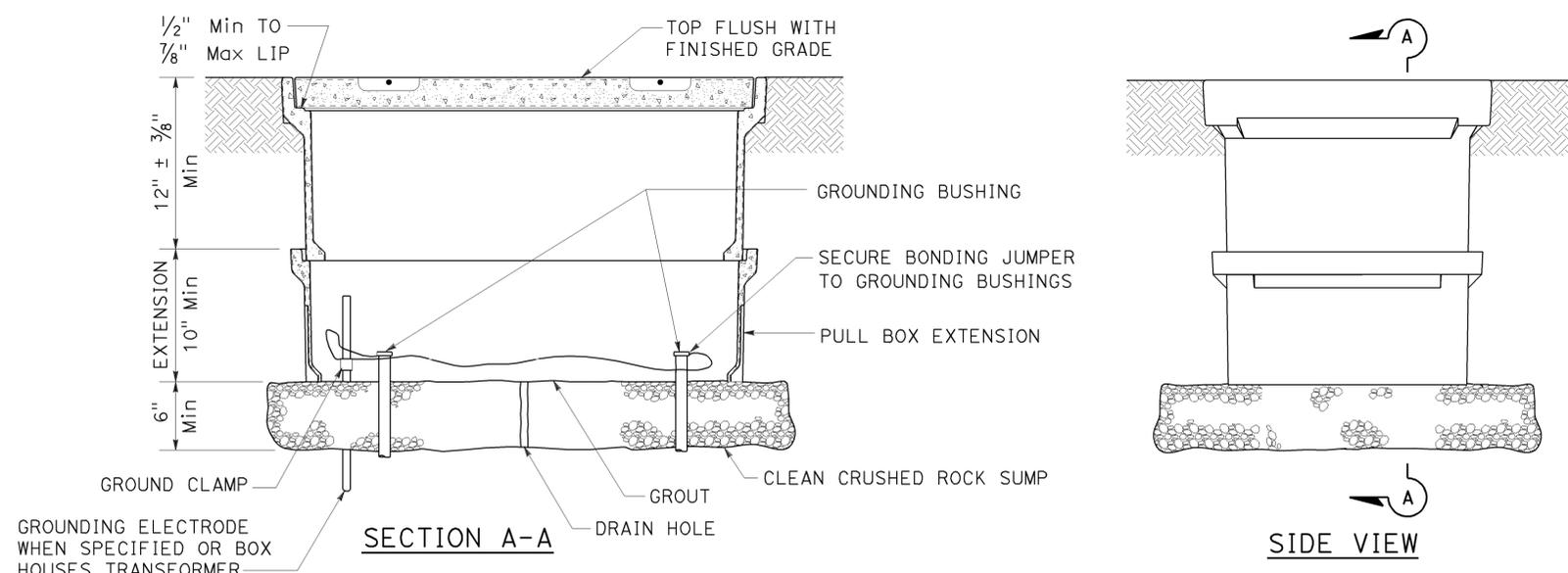
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	12	27

REGISTERED ELECTRICAL ENGINEER  
*Jeffery G. McRae*  
 No. E14512  
 Exp. 6-30-12  
 ELECTRICAL  
 STATE OF CALIFORNIA

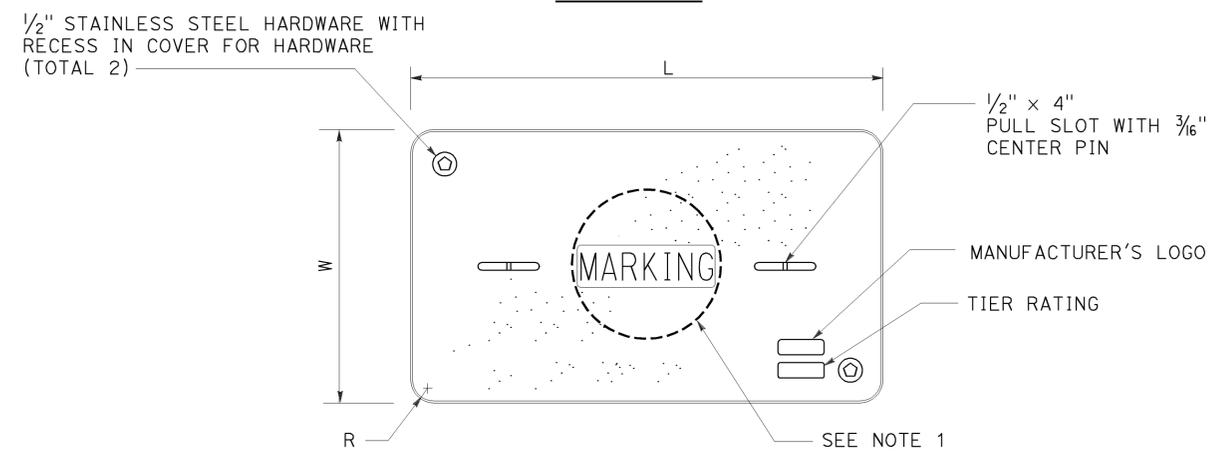
January 20, 2012  
 PLANS APPROVAL DATE

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.

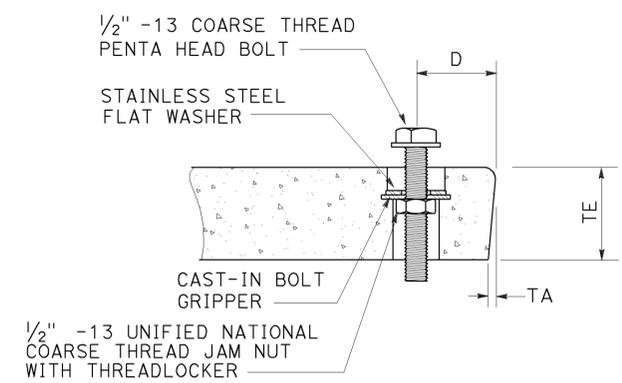
TO ACCOMPANY PLANS DATED January 30, 2013



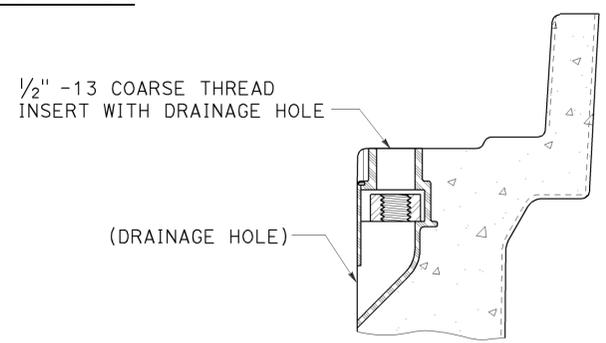
**INSTALLATION DETAILS**  
**DETAIL A**



**COVER TOP VIEW**



**TYPICAL COVER CAPTIVE BOLT OR SIMILAR**



**TYPICAL THREADED INSERT OR SIMILAR**

**NOTES ON PULL BOXES:**

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
  - No. 3/2 pull box.
    - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
  - No. 5, 6, 9 or 9A pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
    - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATIONS" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communication line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

**DIMENSION TABLE**

PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS (PULL BOX)**  
 NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

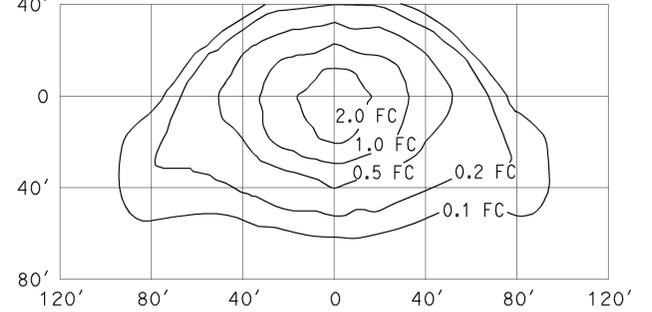
2010 REVISED STANDARD PLAN RSP ES-8A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	13	27

*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 July 20, 2012  
 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.

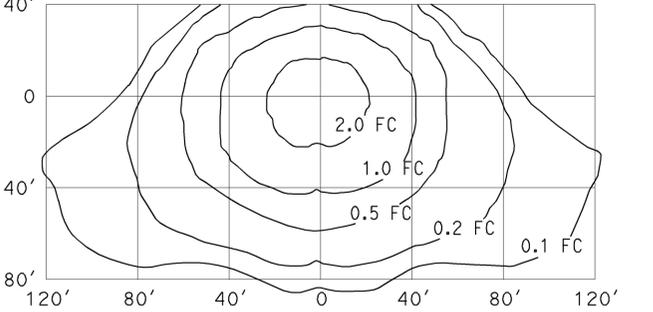
TO ACCOMPANY PLANS DATED January 30, 2013

**ISOFOOTCANDLE CURVE - MINIMUM**



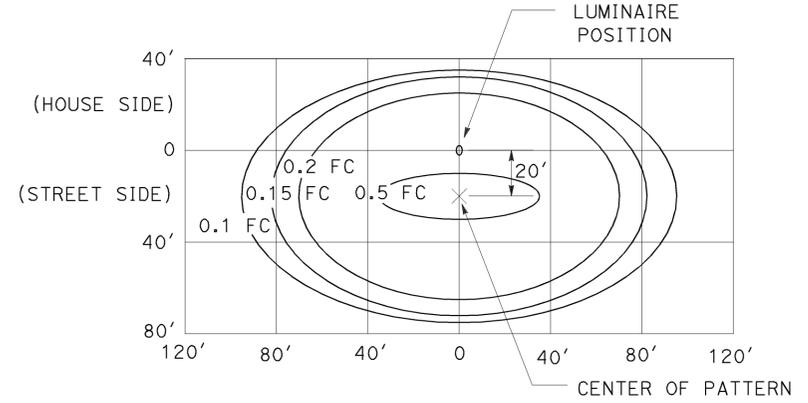
**TYPE III MEDIUM CUTOFF**  
 Cutoff Luminaire  
 34' Mounting Height  
 Lamp operated at 22,000 lm  
 200-W high pressure sodium lamp  
 ANSI Designation S66

**ISOFOOTCANDLE CURVE - MINIMUM**



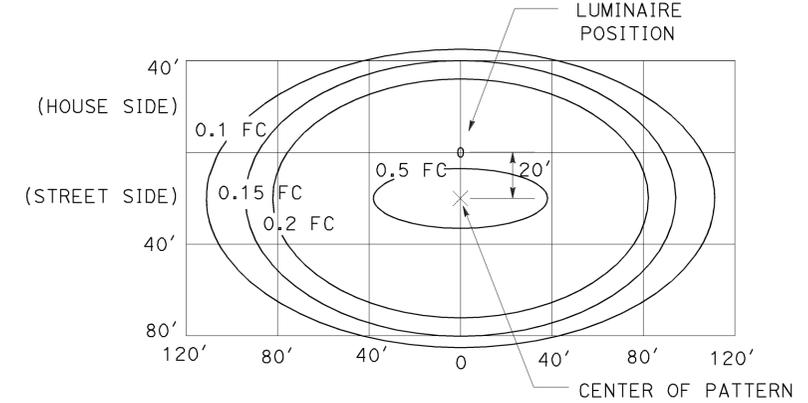
**TYPE III MEDIUM CUTOFF**  
 Cutoff Luminaire  
 40' Mounting Height  
 Lamp operated at 37,000 lm  
 310-W high pressure sodium lamp  
 ANSI Designation S67

**ISOFOOTCANDLE CURVE - MINIMUM**



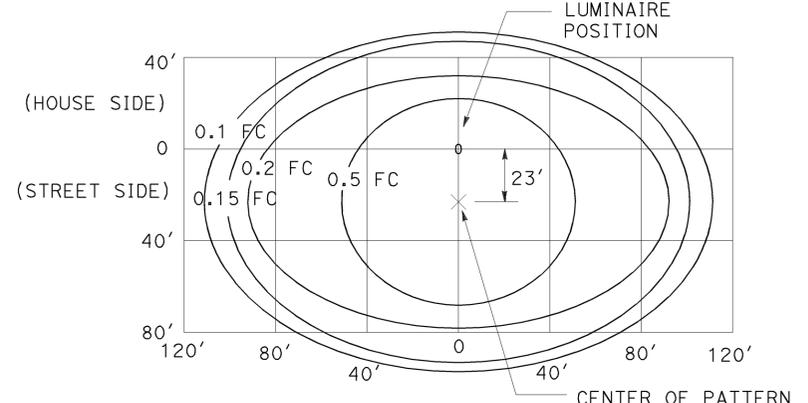
**LED LUMINAIRE ROADWAY 1**  
 200-W HPS Equivalent at 34' Mounting Height

**ISOFOOTCANDLE CURVE - MINIMUM**



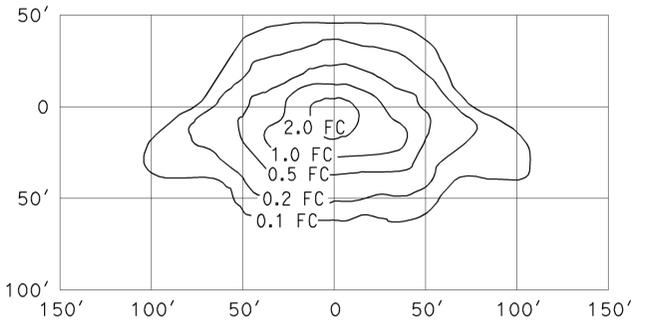
**LED LUMINAIRE ROADWAY 2**  
 310-W HPS Equivalent at 40' Mounting Height

**ISOFOOTCANDLE CURVE - MINIMUM**



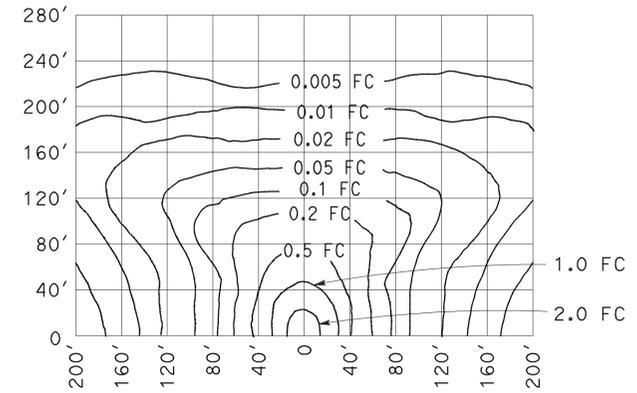
**LED LUMINAIRE ROADWAY 4**  
 400-W HPS Equivalent at 40' Mounting Height

**ISOFOOTCANDLE CURVE - MINIMUM**



**TYPE III MEDIUM CUTOFF**  
 Cutoff Luminaire  
 30' Mounting Height  
 Lamp operated at 16,000 lm  
 150-W high pressure sodium lamp  
 ANSI Designation S55

**ISOFOOTCANDLE CURVE - MINIMUM**



**LOW PRESSURE SODIUM LUMINAIRE**  
 40' Mounting Height  
 Lamp operated at 33,000 lm  
 180-W low pressure sodium lamp

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (ISOFOOTCANDLE DIAGRAMS)**  
 NO SCALE

RSP ES-10A DATED JULY 20, 2012 SUPPLEMENTS THE  
 STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-10A**

2010 REVISED STANDARD PLAN RSP ES-10A

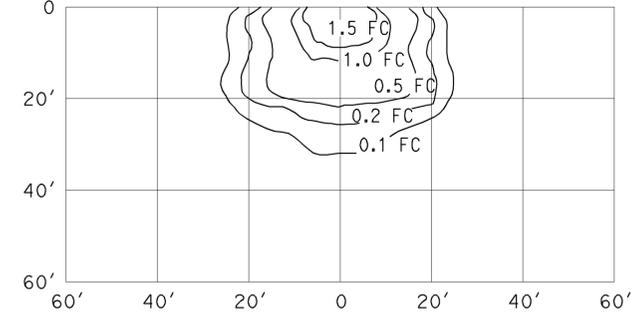
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101 162,175,271	Var	14	27

*Jeffery G. McRae*  
 REGISTERED ELECTRICAL ENGINEER  
 July 20, 2012  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey G. McRae  
 No. E14512  
 Exp. 6-30-14  
 ELECTRICAL  
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED January 30, 2013

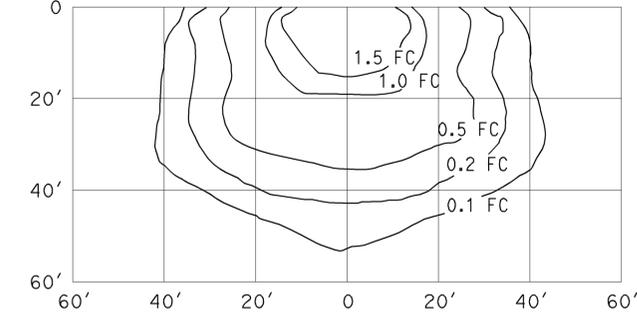
**ISOFOOTCANDLE CURVE - MINIMUM**



**WALL LUMINAIRE**

15' Mounting Height  
 Lamp operated at 5,800 lm  
 70-W high pressure sodium lamp  
 ANSI Designation S62

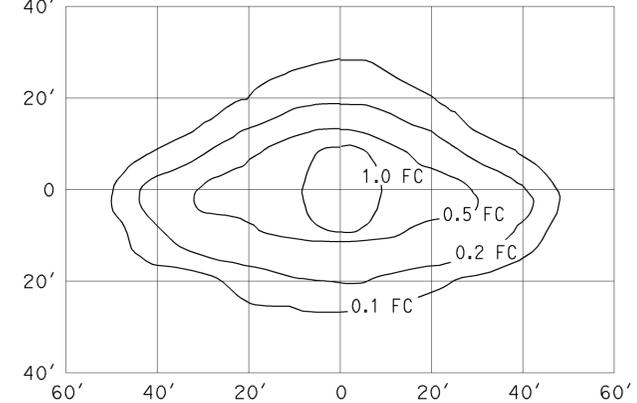
**ISOFOOTCANDLE CURVE - MINIMUM**



**WALL LUMINAIRE**

15' Mounting Height  
 Lamp operated at 9,500 lm  
 100-W high pressure sodium lamp  
 ANSI Designation S54

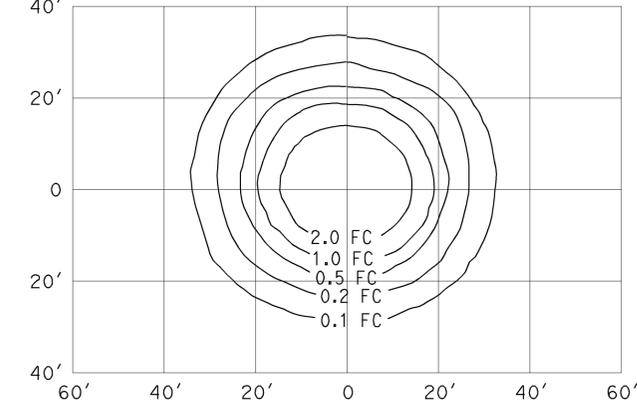
**ISOFOOTCANDLE CURVE - MINIMUM**



**PENDANT SOFFIT LUMINAIRE  
 TYPE III SHORT**

17' Mounting Height  
 Lamp operated at 5,800 lm  
 70-W high pressure sodium lamp  
 ANSI Designation S62

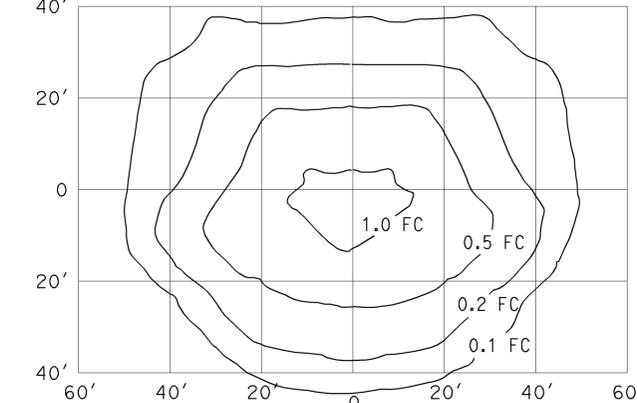
**ISOFOOTCANDLE CURVE - MINIMUM**



**PENDANT SOFFIT LUMINAIRE**

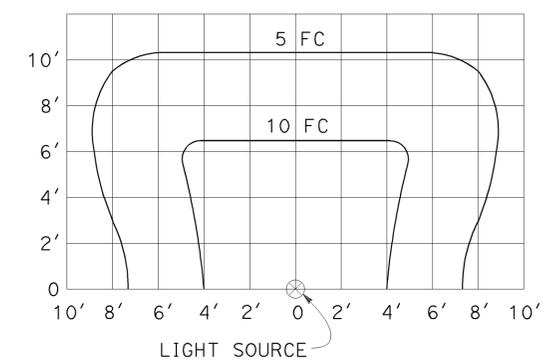
17' Mounting Height  
 Lamp operated at 5,800 lm  
 70-W high pressure sodium lamp  
 ANSI Designation S62

**ISOFOOTCANDLE CURVE - MINIMUM**



**FLUSH SOFFIT LUMINAIRE**

17' Mounting Height  
 Lamp operated at 5,800 lm  
 70-W high pressure sodium lamp  
 ANSI Designation S62



**SIGN LIGHTING FIXTURE  
 ISOFOOTCANDLE DIAGRAM**

**NOTES:**

- Curves represent the minimum footcandle (FC) of initial illumination on a 10'-0" x 20'-0" panel.
- The FC shown are with the fixture attached to the light fixture mounting channel which places the center of the source 4'-8" in front of panel and 1'-0" below the bottom edge.
- Applicable lamp: 85-W fluorescent phosphor coated induction lamp.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
 (ISOFOOTCANDLE DIAGRAMS)**

NO SCALE

RSP ES-10B DATED JULY 20, 2012 SUPPLEMENTS THE  
 STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-10B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	15	27

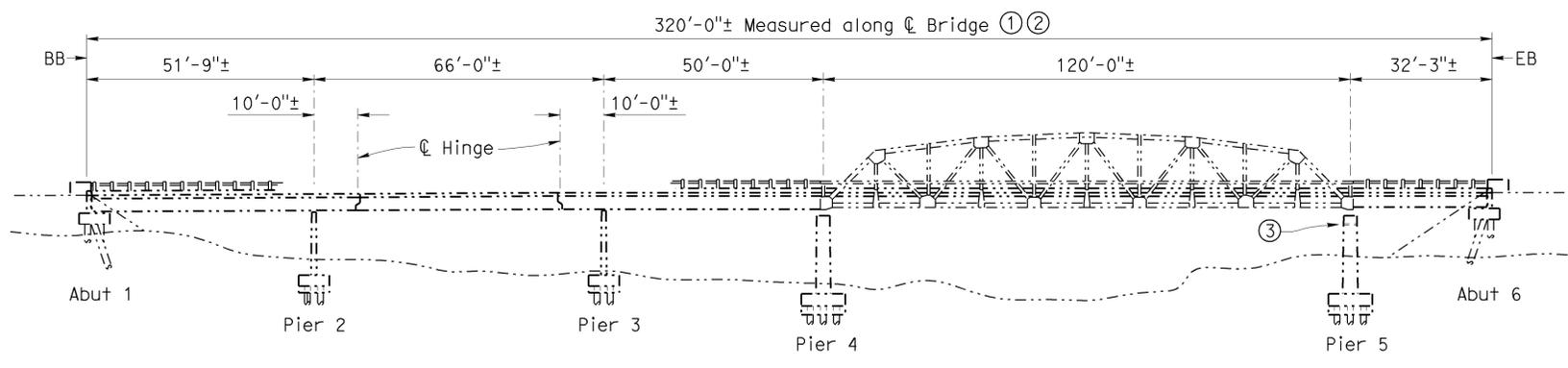
NOTE: (APPLY TO ALL SHEETS)  
 ----- Indicates existing.

*Arlene Frank* 1-04-13  
 REGISTERED CIVIL ENGINEER DATE

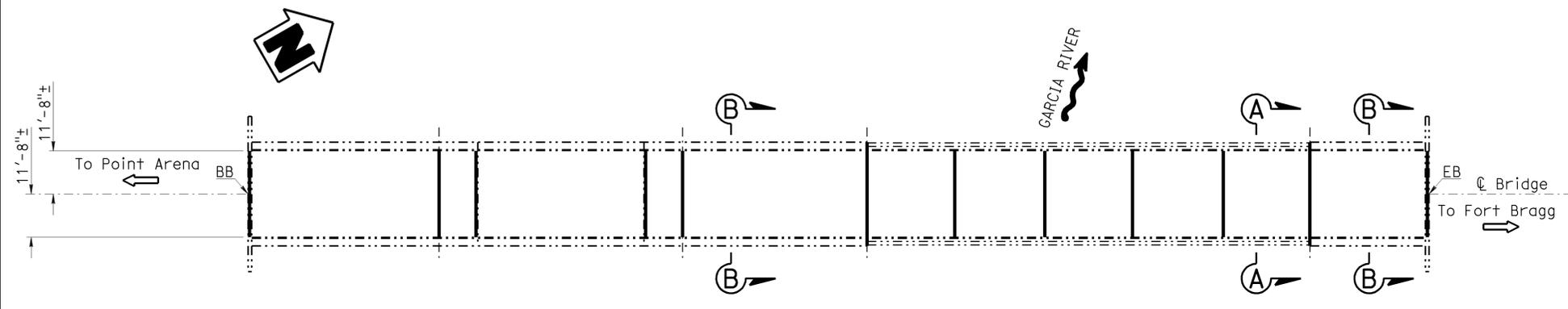
January 30, 2013  
 PLANS APPROVAL DATE

ARLENE FRANK  
 No. C 55562  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA

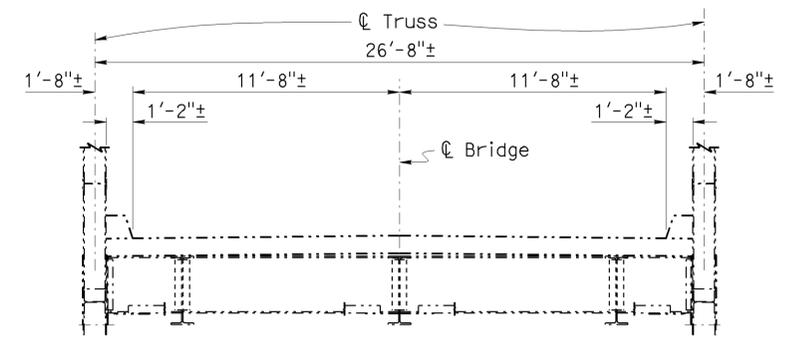
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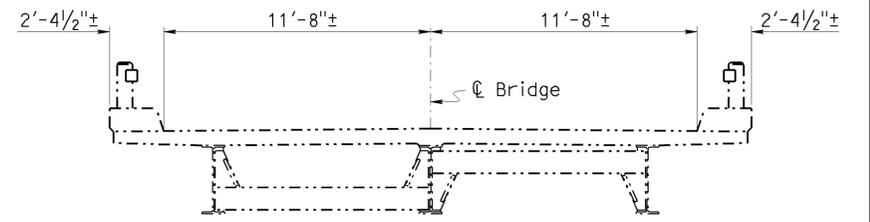
**ELEVATION**  
 1" = 20'



**PLAN**  
 1" = 20'



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



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

**QUANTITIES**  
 GARCIA RIVER (10-0113)

CLEAN EXPANSION JOINT	294	LF
JOINT SEAL (MR 1/2")	219	LF
JOINT SEAL (MR 1")	75	LF
CLEAN AND SEAL EXISTING CORED HOLES	10	EA
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	2,520	SQFT
WORK AREA MONITORING	LUMP	SUM
MISCELLANEOUS METAL (BRIDGE)	17	LB

**GARCIA RIVER**  
 Br. No. 10-0113, ROUTE 1, PM 18.5

- Notes:
- ① - Clean and paint structural steel (Existing)
  - ② - Spot blast clean and paint undercoat rusted areas. For details, see "Spot Blast Locations" on "DETAILS NO. 1" sheet.
  - ③ - Indicates location of existing 4"± ∅ cored holes. Clean holes and seal openings. (Total 10 cored holes) For additional details, see "DETAILS NO. 2" sheet.
- Indicates limits of existing joint seal removal and placement of new joint seal.

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	DETAILS NO. 1
12	DETAILS NO. 2
13	JOINT SEAL DETAILS

**STANDARD PLANS DATED 2010**

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

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

<i>Matthew Lee</i> 1-04-13 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

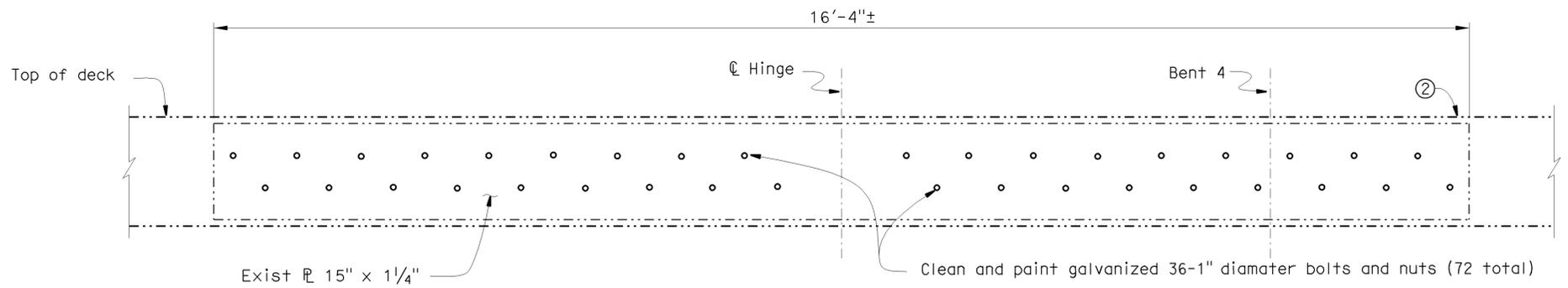
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	16	27

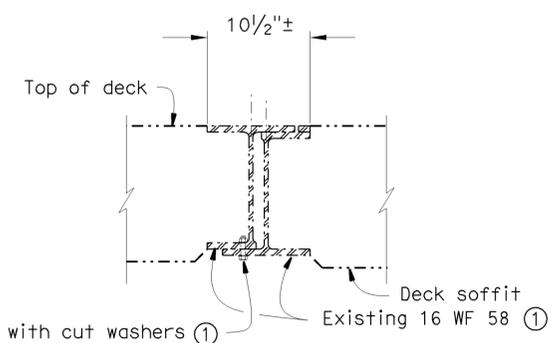
Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

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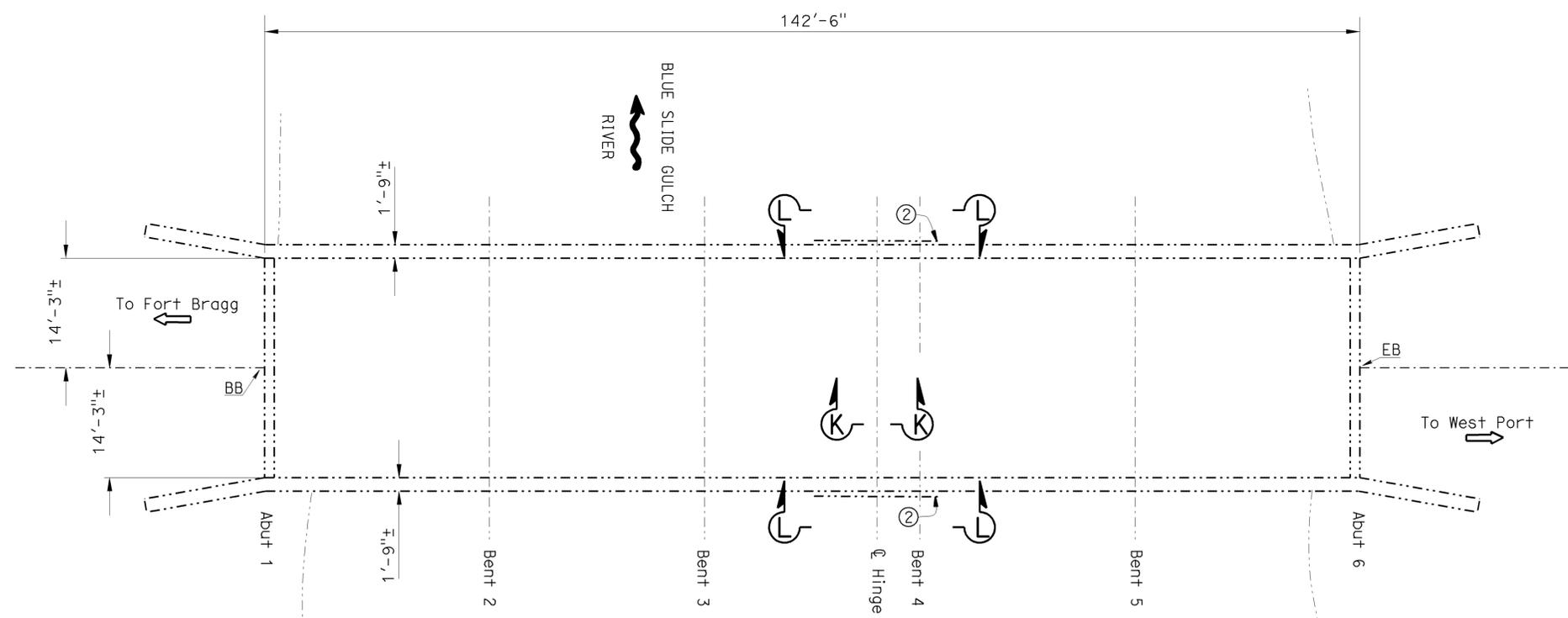


Note: Right side shown left side similar.

**PARTIAL ELEVATION L-L**  
1" = 1'-0"



**SECTION K-K**  
1" = 1'-0"



**PLAN**  
1" = 10'



**BLUE SLIDE GULCH**  
Br. No. 10-0166, ROUTE 1, PM 75.00

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

Notes:

- ① - 100% blast clean and apply a 3 coat moisture-cured urethane system.
- ② - Clean spalled area, remove unsound concrete and patch with concrete see "SPALLED REPAIR TABLE" on "JOINT SEAL DETAILS" sheet.

QUANTITIES

BLUE SLIDE GULCH (10-0166)

REPAIR SPALLED SURFACE AREA	1	SOFT
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE) (MOISTURE CURED URETHANE SYSTEM)	LUMP	SUM
CLEAN AND PAINT GALVANIZED SURFACES (EXISTING STEEL)	LUMP	SUM
WORK AREA MONITORING	LUMP	SUM

  
 DESIGN ENGINEER 1-04-13

DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED P. Kang	LAYOUT	BY David Kish
QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

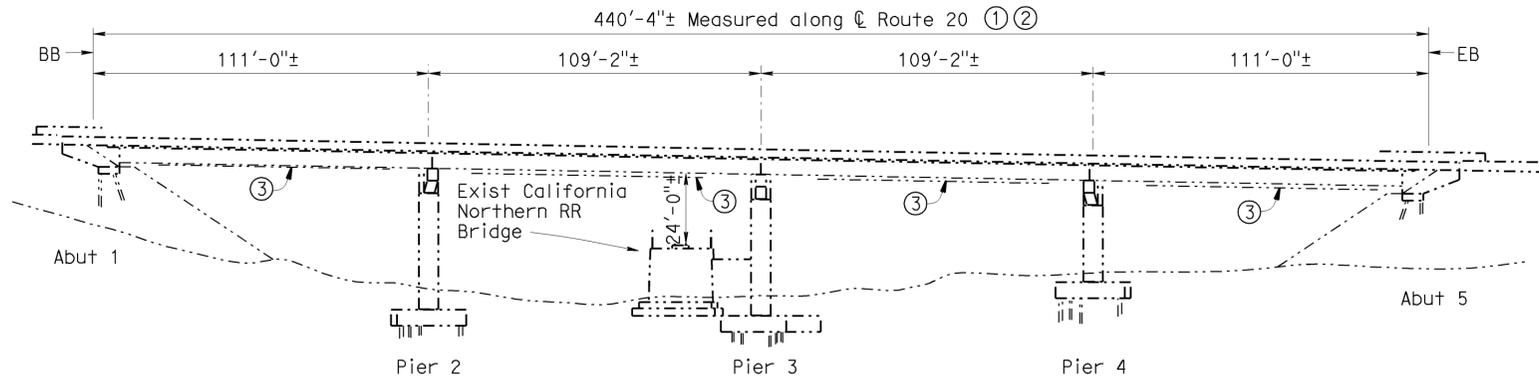
DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIOUS  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 2**

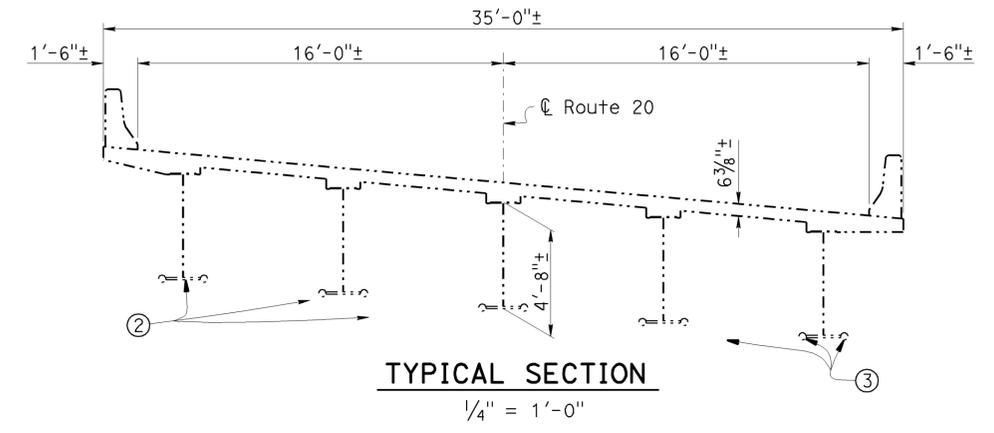
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	17	27

Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
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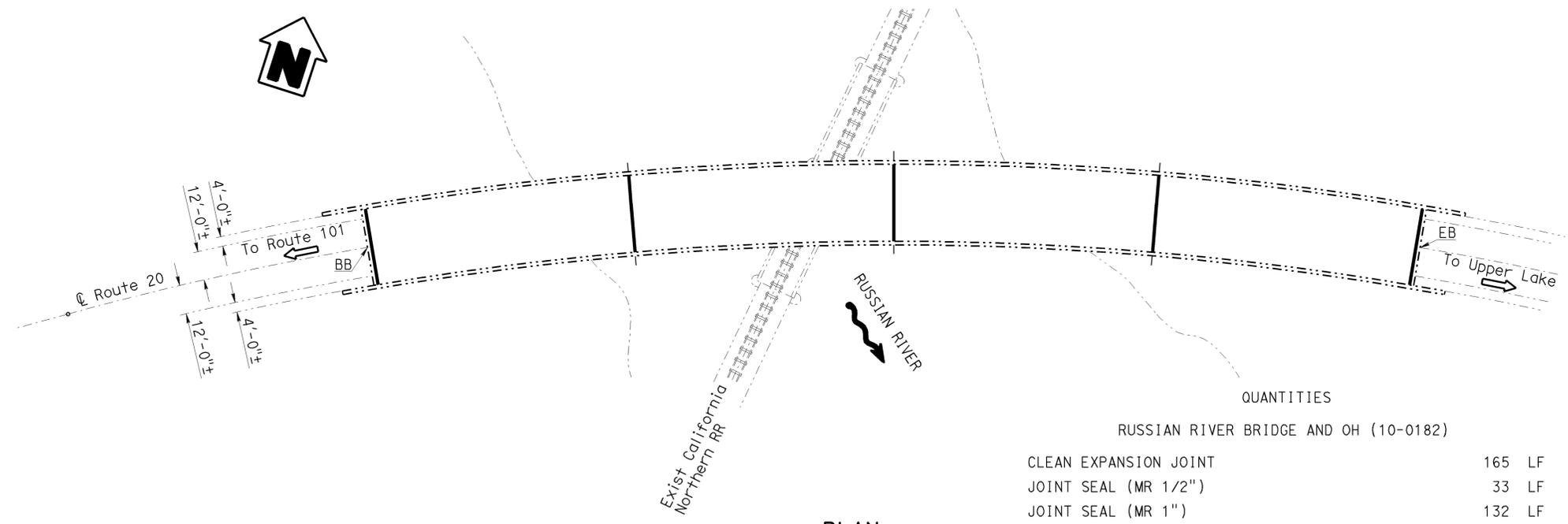
REGISTERED PROFESSIONAL ENGINEER  
 ARLENE FRANK  
 No. C 55562  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA



**ELEVATION**  
1" = 30'



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



**PLAN**  
1" = 30'

QUANTITIES

RUSSIAN RIVER BRIDGE AND OH (10-0182)	
CLEAN EXPANSION JOINT	165 LF
JOINT SEAL (MR 1/2")	33 LF
JOINT SEAL (MR 1")	132 LF
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
CLEAN AND PAINT GALVANIZED SURFACES (EXISTING STEEL)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	6,615 SQFT
WORK AREA MONITORING	LUMP SUM

- Notes:
- ① - Clean and paint structural steel (Existing).
  - ② - Spot blast clean and paint undercoat all girders bottom flange surface.
  - ③ - Clean and paint existing 2"  $\varnothing$  x 76 $\pm$  galvanized P/S conduits and support surfaces
- Indicates limits of existing joint seal removal and placement of new joint seal.

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

**RUSSIAN RIVER BRIDGE AND OVERHEAD**  
Br. No. 10-0182, ROUTE 20, PM 33.63

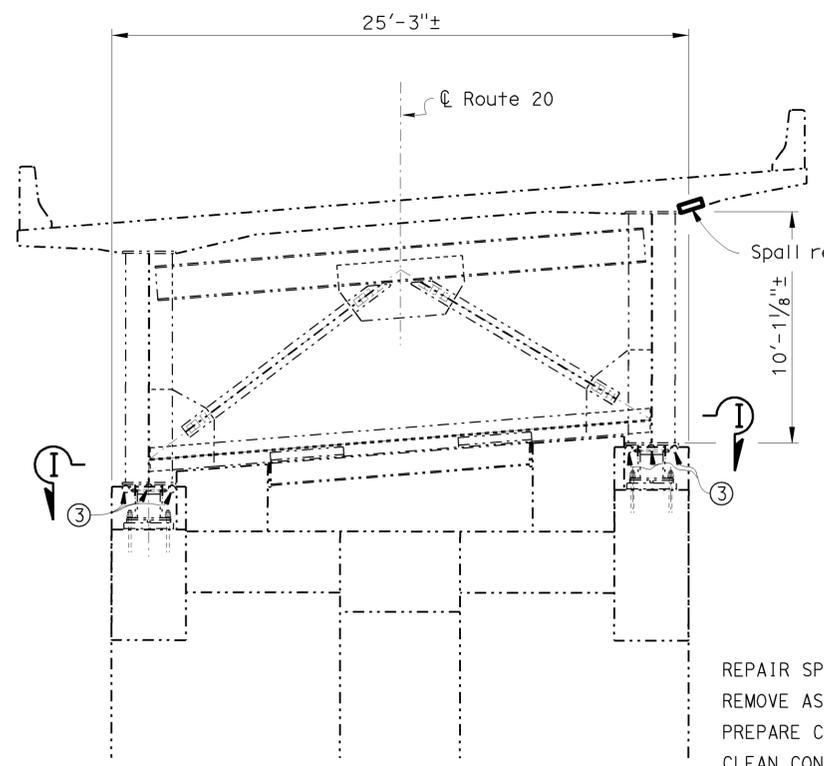
*Matthew Cole*  
DESIGN ENGINEER 1-04-13

DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts
				PLANS AND SPECS COMPARED Todd Geerts

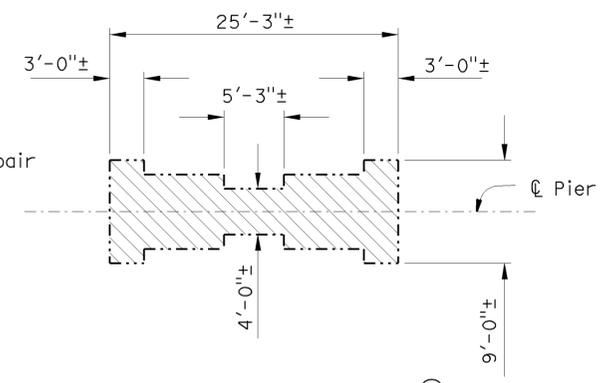
**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
STRUCTURE MAINTENANCE DESIGN

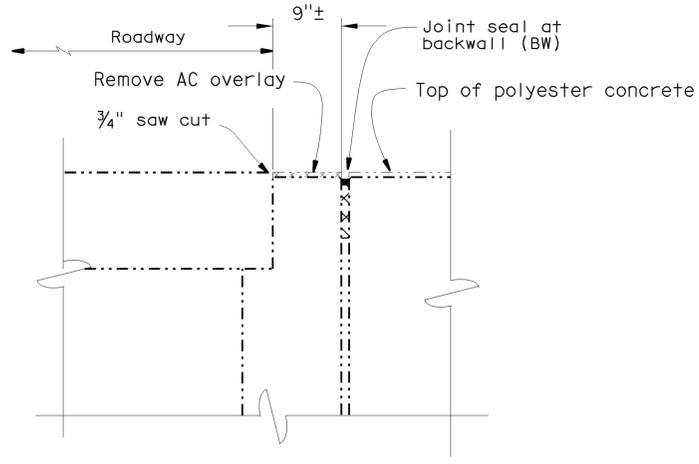
BRIDGE NO. VARIOUS  
POST MILE Varies  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 3**



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



**SECTION I-I**  
PIER COLUMN SURFACE  
1/8" = 1'-0"



**SECTION J-J**  
1" = 1'-0"

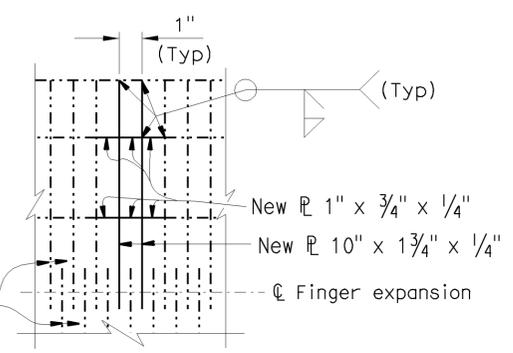
QUANTITIES  
EAST FORK RUSSIAN (10-0184)

REPAIR SPALLED SURFACE AREA	73	SQFT
REMOVE ASPHALT CONCRETE SURFACING	24	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	24	SQFT
CLEAN CONCRETE SURFACE	485	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	2	CF
PLACE POLYESTER CONCRETE OVERLAY	24	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
CLEAN EXPANSION JOINT	133	LF
JOINT SEAL (MR 1")	98	LF
JOINT SEAL (MR 2")	33	LF
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
CLEAN AND PAINT GALVANIZED SURFACES (EXISTING STEEL)	LUMP	SUM
WORK AREA MONITORING	LUMP	SUM
MISCELLANEOUS METAL (BRIDGE)	6	LB

Note: Existing bathhouse on piers

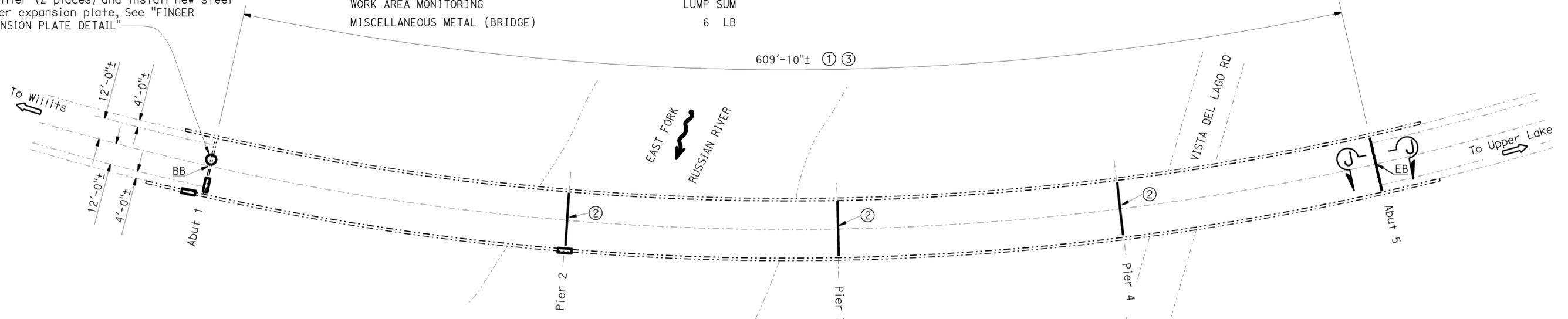
Remove damage Finger Expansion Plate and AC filler (2 places) and install new steel finger expansion plate, See "FINGER EXPANSION PLATE DETAIL"

- Notes:
- ① - 100% Blast clean and paint structural steel (Existing).
  - ② - Indicates limits of repair spalls. See "SPALL REPAIR DETAIL" and SPALL REPAIR TABLE for details on "JOINT SEAL DETAILS" sheet.
  - ③ - Indicates limits of clean concrete surface
  - ④ - Indicates limits of remove 1" AC overlay. Prepare concrete surface and place 3/4" polyester concrete overlay.
  - ⑤ - Clean and paint existing 3" Ø x 102± galvanized P/S conduits and support surfaces
  - Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, repair joint spalls as determined by Engineer.



**FINGER EXPANSION PLATE DETAIL**  
3" = 1'-0"

NOTE: Match existing dimensions



**EAST FORK RUSSIAN RIVER**  
Br. No. 10-0184, ROUTE 20, PM 36.36

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

DESIGN ENGINEER  
 1-04-13

DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY David Kish	CHECKED P. Kang	LAYOUT	BY David Kish
QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 4**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	19	27

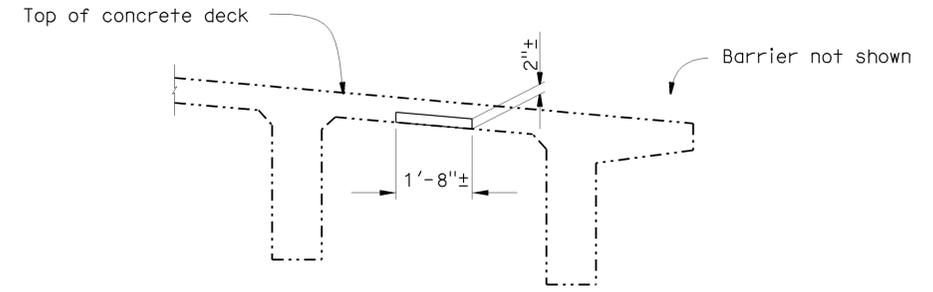
*Arlene Frank* 1-04-13  
 REGISTERED CIVIL ENGINEER DATE

January 30, 2013  
 PLANS APPROVAL DATE

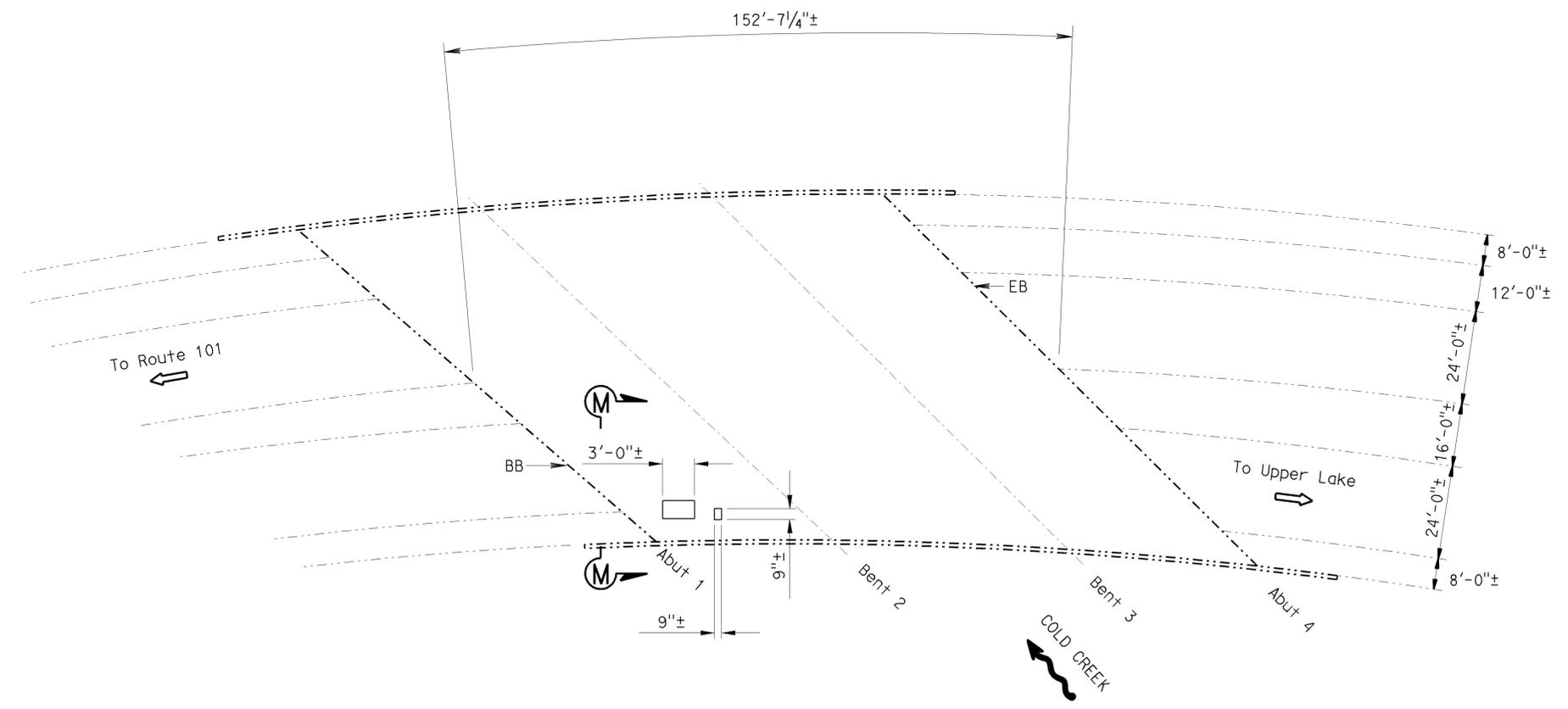
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Notes:

Indicates location of repair spalls. See "SPALL REPAIR DETAIL" and SPALL REPAIR TABLE for details on "JOINT SEAL DETAILS" sheet.



**SECTION M-M**  
 $\frac{1}{2}'' = 1'-0''$



QUANTITIES

COLD CREEK #1 (10-0040)

**COLD CREEK #1**

Br. No. 10-0040, ROUTE 20, PM R37.90

1" = 20'

REPAIR SPALLED SURFACE AREA

11 SQFT

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

 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY David Kish	CHECKED P. Kang	LAYOUT	BY David Kish
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
**DIVISION OF MAINTENANCE**  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS  
 POST MILE VARIES  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 5**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488  
 PROJECT NUMBER & PHASE: 0100020315

CONTRACT NO.: 01-0A4401

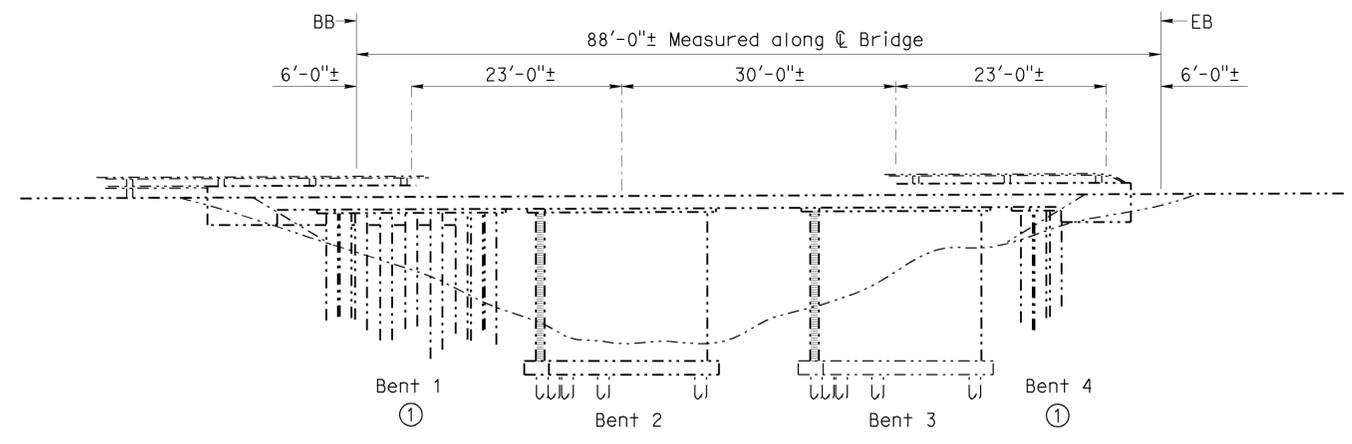
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-31-12	5	13

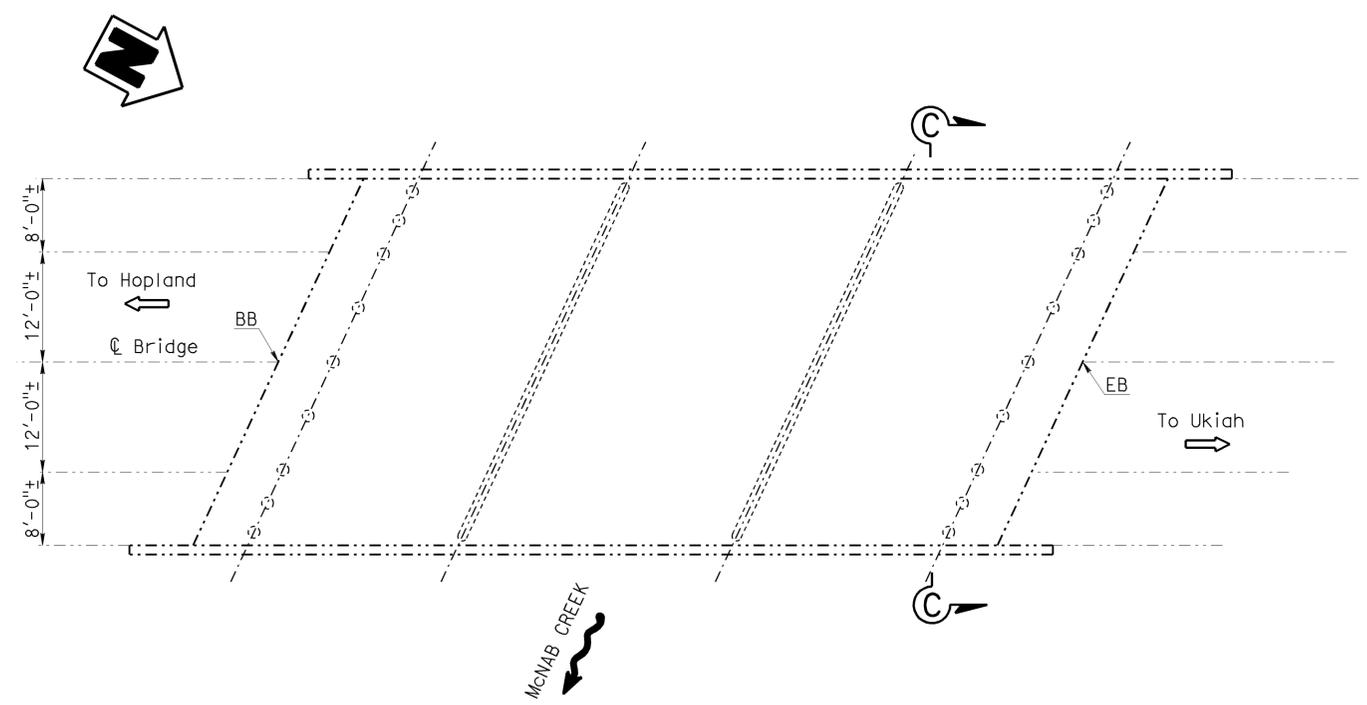
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	20	27
<i>Arlene Frank</i> 1-04-13 REGISTERED CIVIL ENGINEER DATE			Arlene Frank No. C 55562 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA		
January 30, 2013 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

Notes:

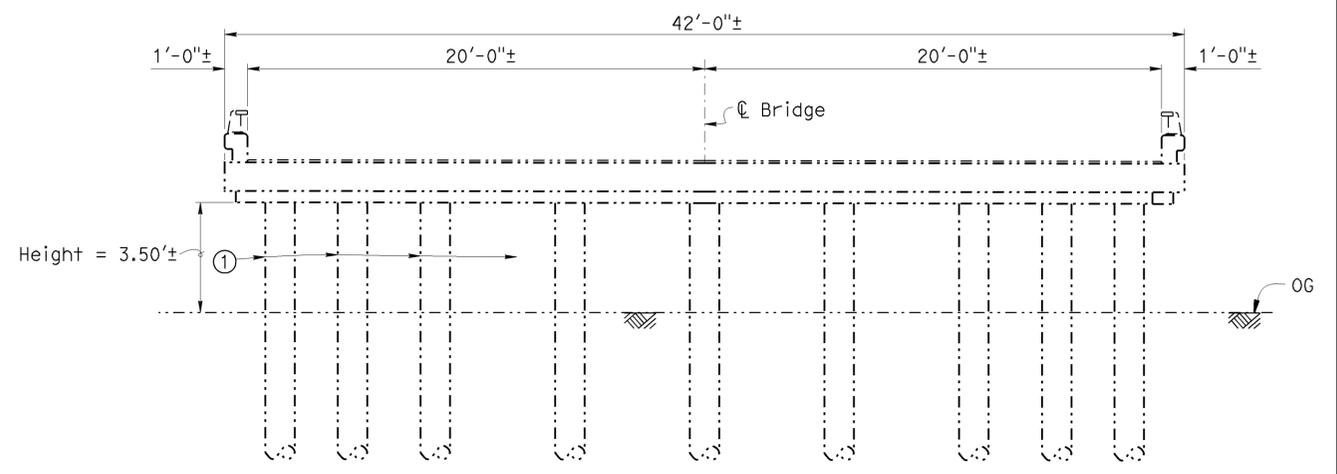
- ① - 100% blast clean and apply a 3 coat moisture-cured urethane system to 1'-3 1/2" ± Ø Steel Shell Piles. (Total 18)



**ELEVATION**  
1" = 10'



**PLAN**  
1" = 10'



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

**McNAB CREEK**

Br. No. 10-0004, ROUTE 101, PM 15.94

QUANTITIES  
MCNAB CREEK (10-0004)

CLEAN AND PAINT STRUCTURAL STEEL (EXIST BRIDGE) (MOISTURE-CURED URETHANE SYSTEM)	LUMP SUM
WORK AREA MONITORING	LUMP SUM

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

 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

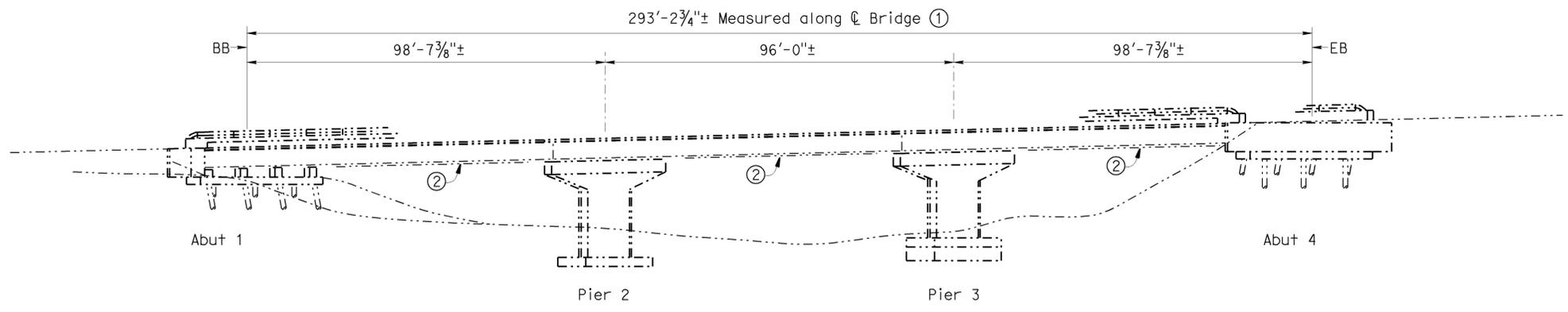
BRIDGE NO. VARIOUS  
POST MILE ROUTE 1, 20, 101, 162, 175, 271 BRIDGES  
VARIES  
**GENERAL PLAN NO. 6**

USERNAME => s109618 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 08:00

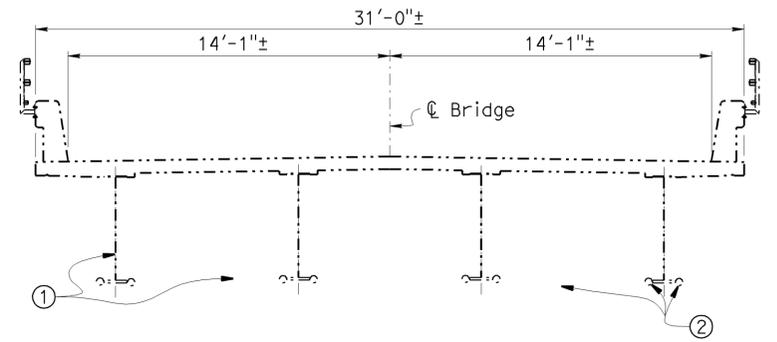
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	21	27

Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

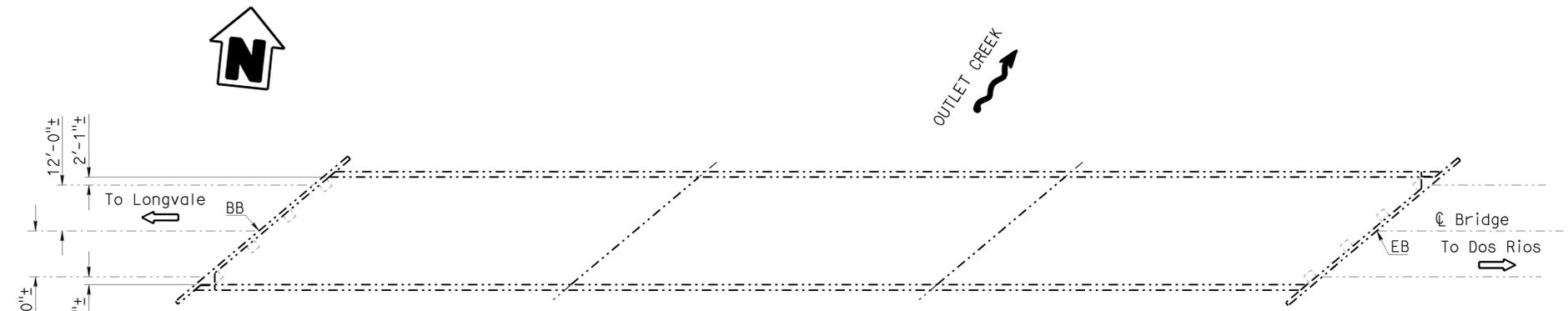
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**ELEVATION**  
1" = 20'



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



**PLAN**  
1" = 20'

Notes:

- ① - 100% blast clean and paint structural steel (Existing).
- ② - Clean and paint existing 2" Ø x 72± galvanized P/S conduits and support surfaces

**QUANTITIES**  
OUTLET CREEK (10-0233)

CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
CLEAN AND PAINT GALVANIZED SURFACES (EXISTING STEEL)	LUMP SUM
WORK AREA MONITORING	LUMP SUM

**OUTLET CREEK**  
Br. No. 10-0233, ROUTE 162, PM 0.70

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

DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

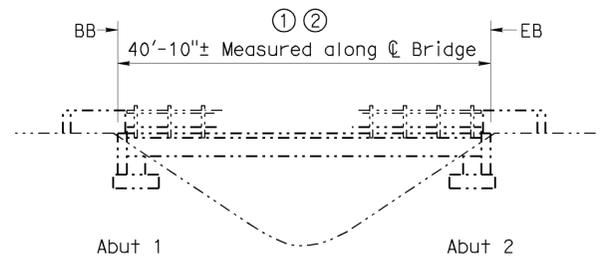
BRIDGE NO. VARIOUS  
POST MILE Varies  
**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**  
**GENERAL PLAN NO. 7**

USERNAME => s109618 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 08:00

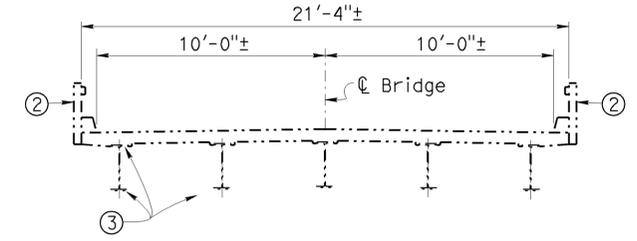
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	22	27

Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

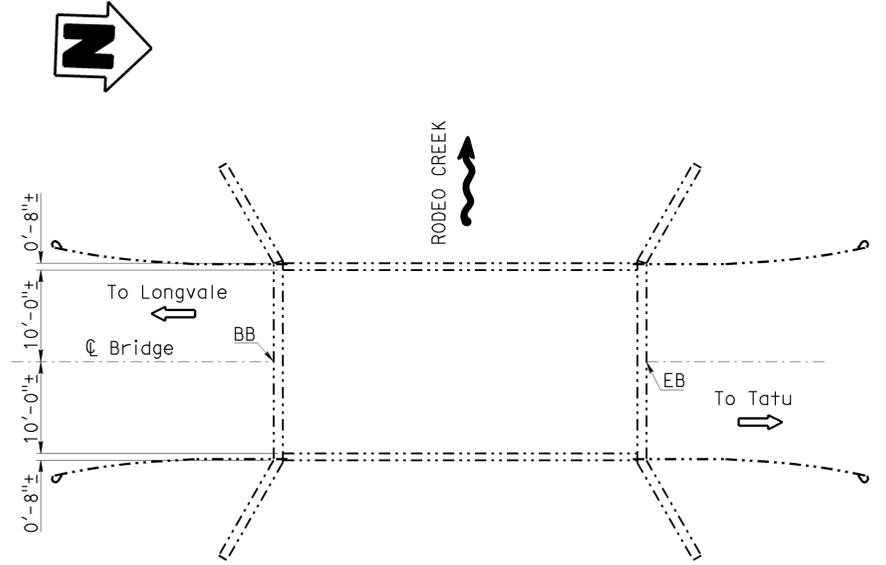
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



**ELEVATION**  
1" = 10'



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



**PLAN**  
1" = 10'

Notes:

- ① - Clean and paint structural steel (Existing).
- ② - Clean and paint timber bridge railings.
- ③ - Spot blast clean all exposed surface of girder flanges, angle laterals and girder support at the abutments. Paint undercoat.

QUANTITIES

RODEO CREEK (10-0237)	
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
CLEAN AND PAINT TIMBER (EXISTING BRIDGE RAILING)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	90 SQFT
WORK AREA MONITORING	LUMP SUM

**RODEO CREEK**

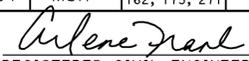
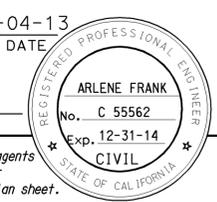
Br. No. 10-0237, ROUTE 162, PM 10.08

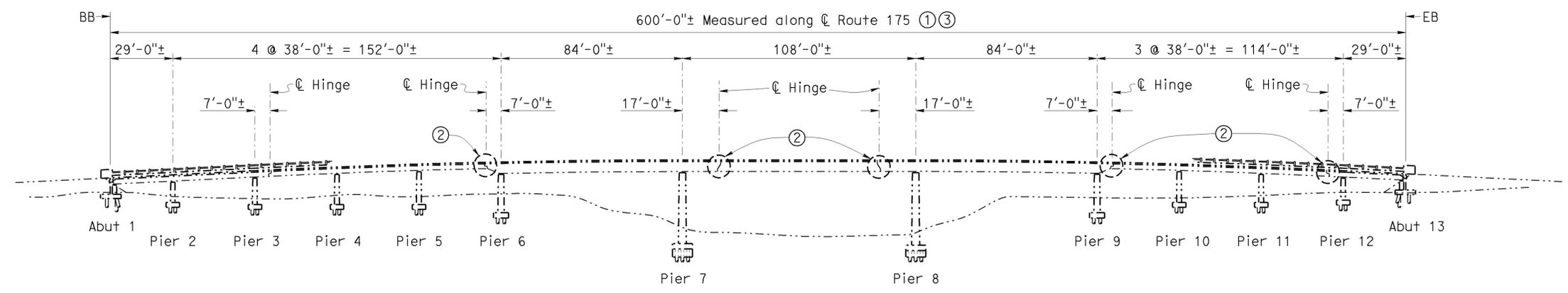
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 1, 20, 101, 162, 175, 271 BRIDGES</b>  <b>GENERAL PLAN NO. 8</b>
		VARIOUS	
		VARIES	

USERNAME => s109618 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 08:00

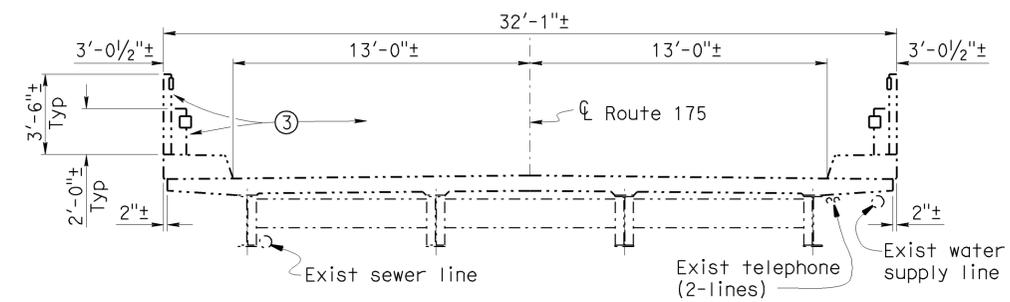
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	23	27
 REGISTERED CIVIL ENGINEER			DATE	1-04-13	
January 30, 2013 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



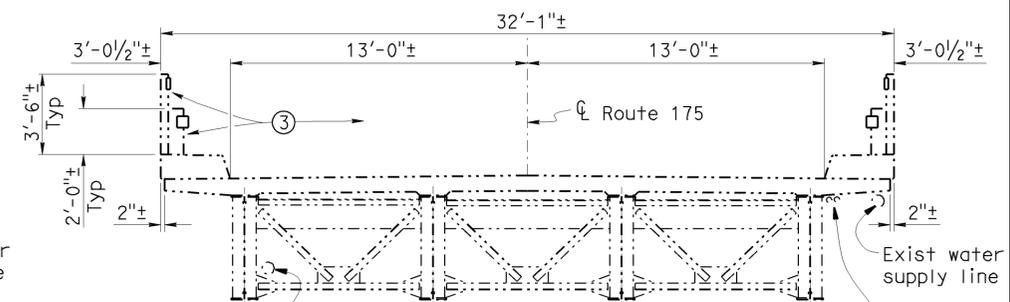
**ELEVATION**  
1" = 30'

Notes:

- ① - Clean and paint structural steel (Existing). Spot blast clean rust spots on top of bottom flange girders, top of flange girders, top of intermediate and end diaphragm members, as designated by the Engineer. Paint undercoat spot blasted surfaces.
- ② - Spot blast clean pack rust girder webs and hinge plates. Paint undercoat.
- ③ - Clean and paint timber posts and railings.

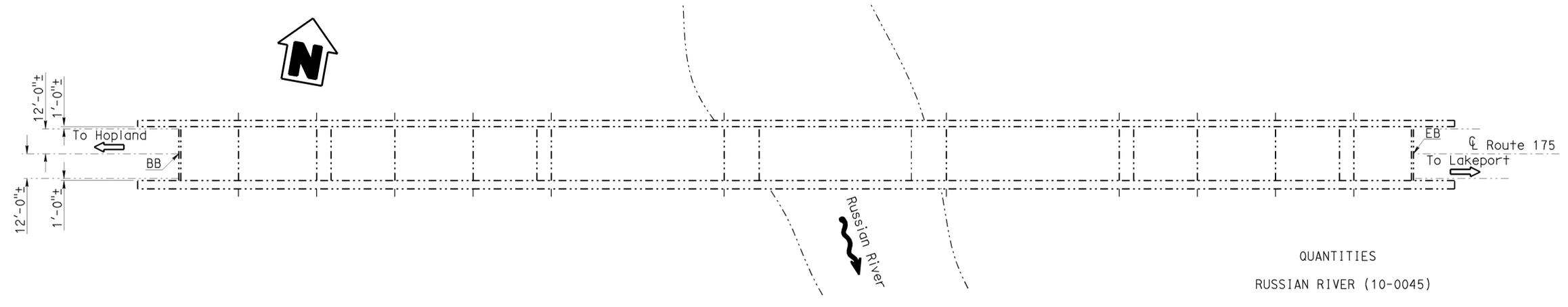


(Spans 1 thru 5 & Spans 9 thru 12)



(Spans 6 thru 8)

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



**PLAN**  
1" = 30'

**RUSSIAN RIVER**  
Br. No. 10-0045, ROUTE 175, PM 0.45

**QUANTITIES**  
RUSSIAN RIVER (10-0045)

CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
CLEAN AND PAINT TIMBER	LUMP SUM
(EXISTING BRIDGE RAILING)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	4,710 SQFT
WORK AREA MONITORING	LUMP SUM

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

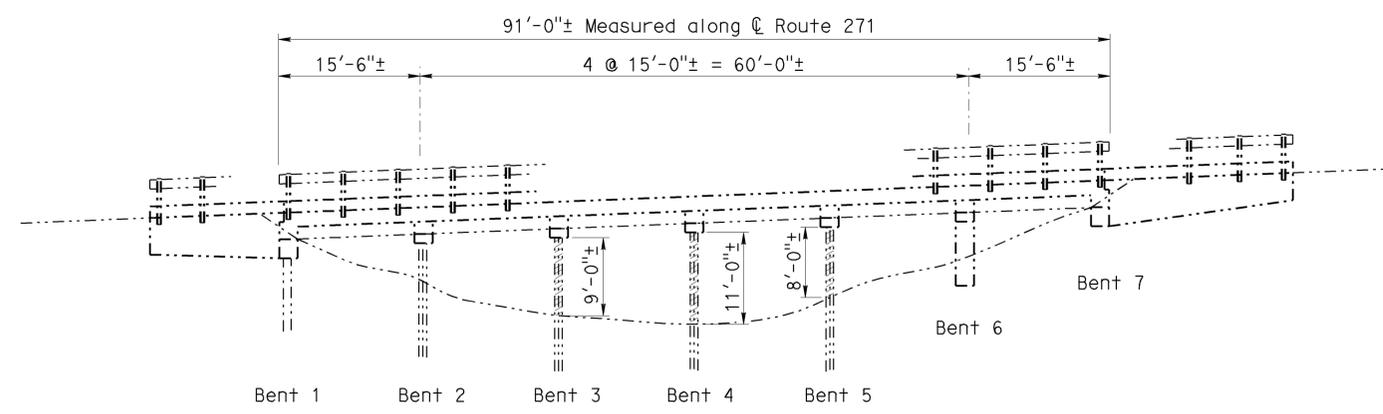
 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.	<b>ROUTE 1, 20, 101, 162, 175, 271 BRIDGES</b> <b>GENERAL PLAN NO. 9</b>
	STRUCTURE MAINTENANCE DESIGN	VARIOUS	
		VARIES	

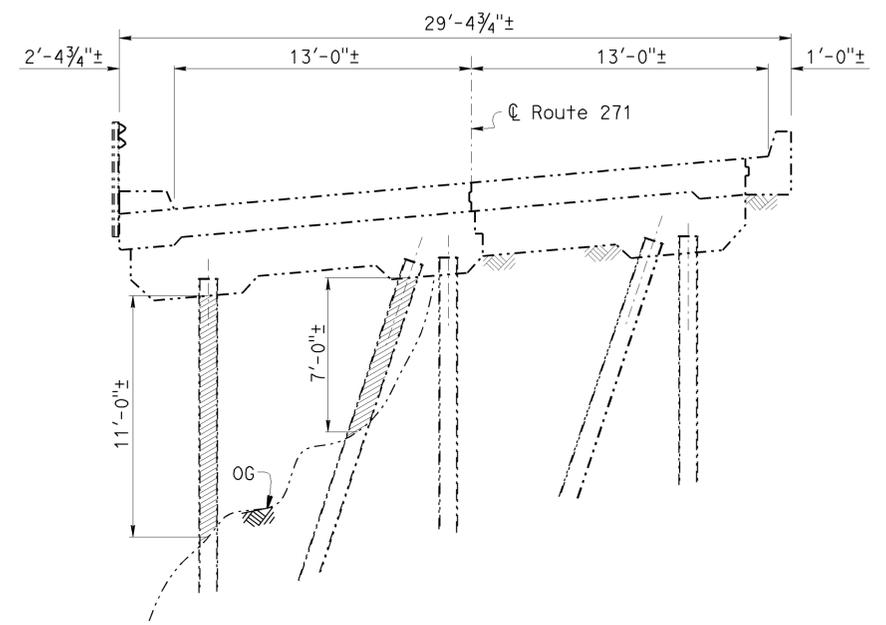
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	24	27

Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE

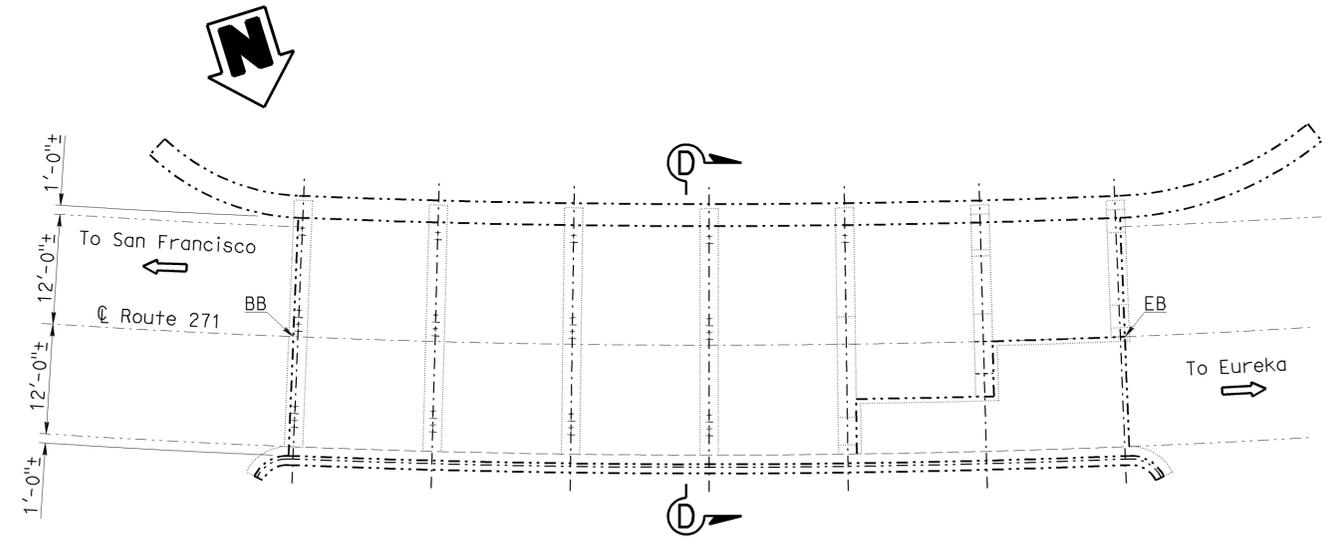
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**MIRRORED ELEVATION**  
1" = 10'



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



**PLAN**  
1" = 10'

Notes:  
 Indicates limits of 100% blast clean Steel H Piles (10 BP 42), concrete soffit to OG. Apply a 3 coat moisture-cured urethane system.

QUANTITIES

SIDEHILL VIADUCT (10-0100)	
CLEAN AND PAINT STRUCTURAL STEEL (EXIST BRIDGE) (MOISTURE-CURED URETHANE SYSTEM)	LUMP SUM
WORK AREA MONITORING	LUMP SUM

**SIDEHILL VIADUCT**  
Br. No. 10-0100, ROUTE 271, PM 18.39

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

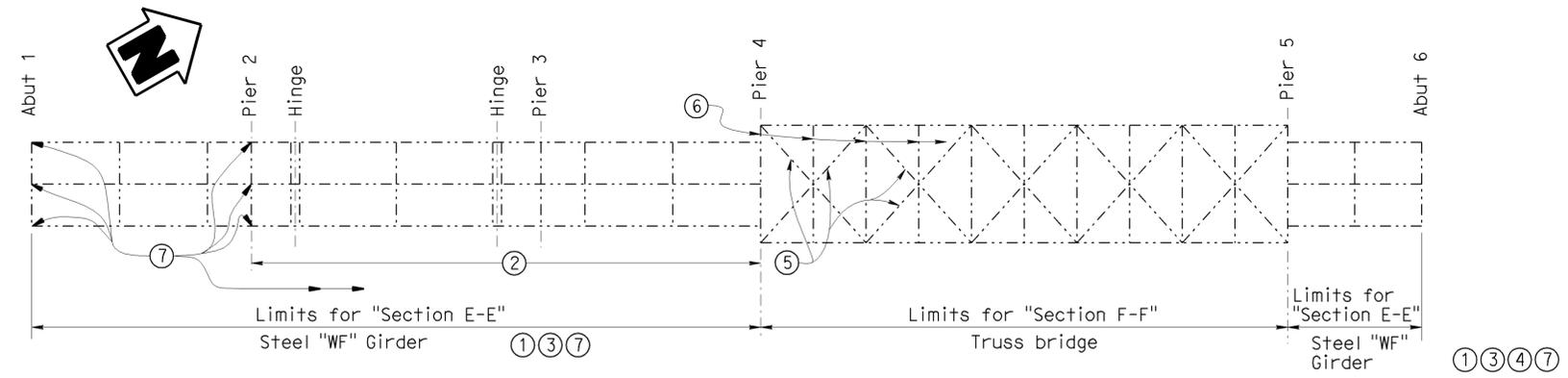
 DESIGN ENGINEER	DESIGN	BY A. Frank	CHECKED P. Kang	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Dale Kubochi	CHECKED P. Kang	LAYOUT	BY Dale Kubochi
	QUANTITIES	BY A. Frank	CHECKED P. Kang	SPECIFICATIONS	BY Todd Geerts

<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	VARIOUS
	POST MILE	VARIES
	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	

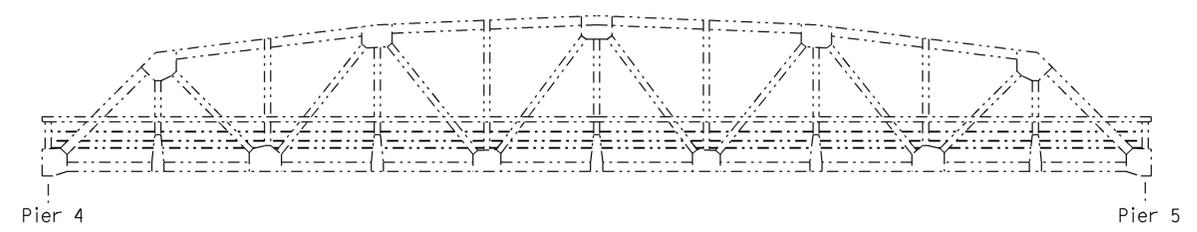
<b>ROUTE 1, 20, 101, 162, 175, 271 BRIDGES</b>	
<b>GENERAL PLAN NO. 10</b>	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101 162, 175, 271	Var	25	27
Arlene Frank REGISTERED CIVIL ENGINEER			1-04-13 DATE		
January 30, 2013 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.					

NOTES: (APPLY TO THIS SHEET ONLY)  
 - For spot blast clean and paint structural steel, see "TABLE"

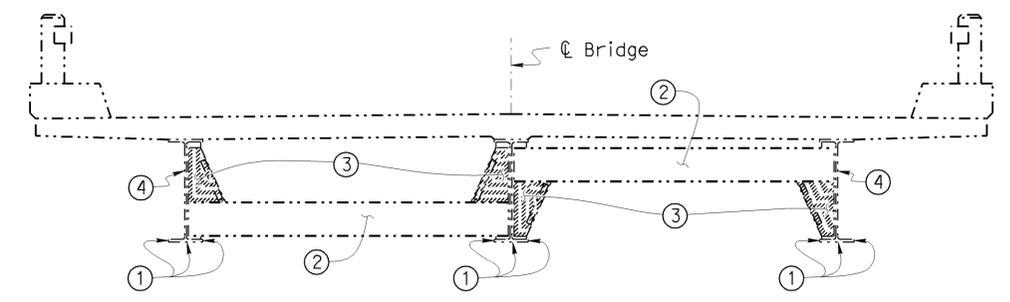


**PLAN (STEEL LAYOUT)**  
 1" = 20'

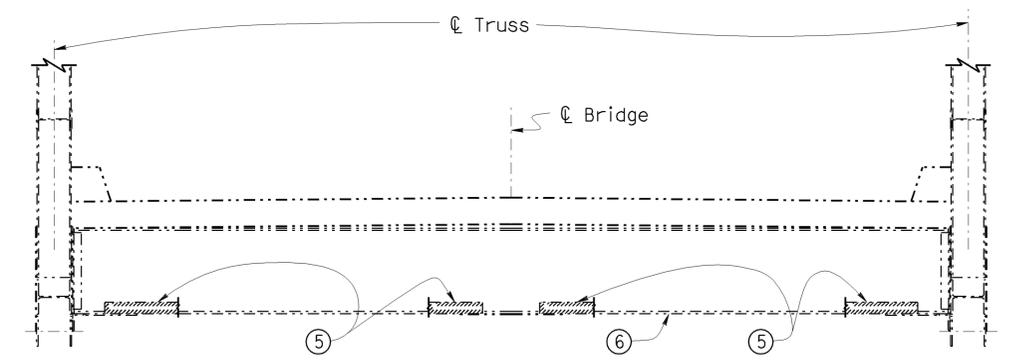


**ELEVATION (TRUSS BRIDGE)**  
 1" = 10'

TABLE		
LOCATION	DESCRIPTION	APPROXIMATE AREA (SQFT)
①	Girders - bottom and sides of bottom flanges	749
②	End and intermediate diaphragms bottom flange and one side of web	314
③	Backside of rivets	39
④	Exterior face of web	150
⑤	Bottom and back side of laterals	166
⑥	Floorbeam - bottom flange	211
⑦	Bearing	62



**SECTION E-E**  
 3/8" = 1'-0"



**SECTION F-F**  
 3/8" = 1'-0"

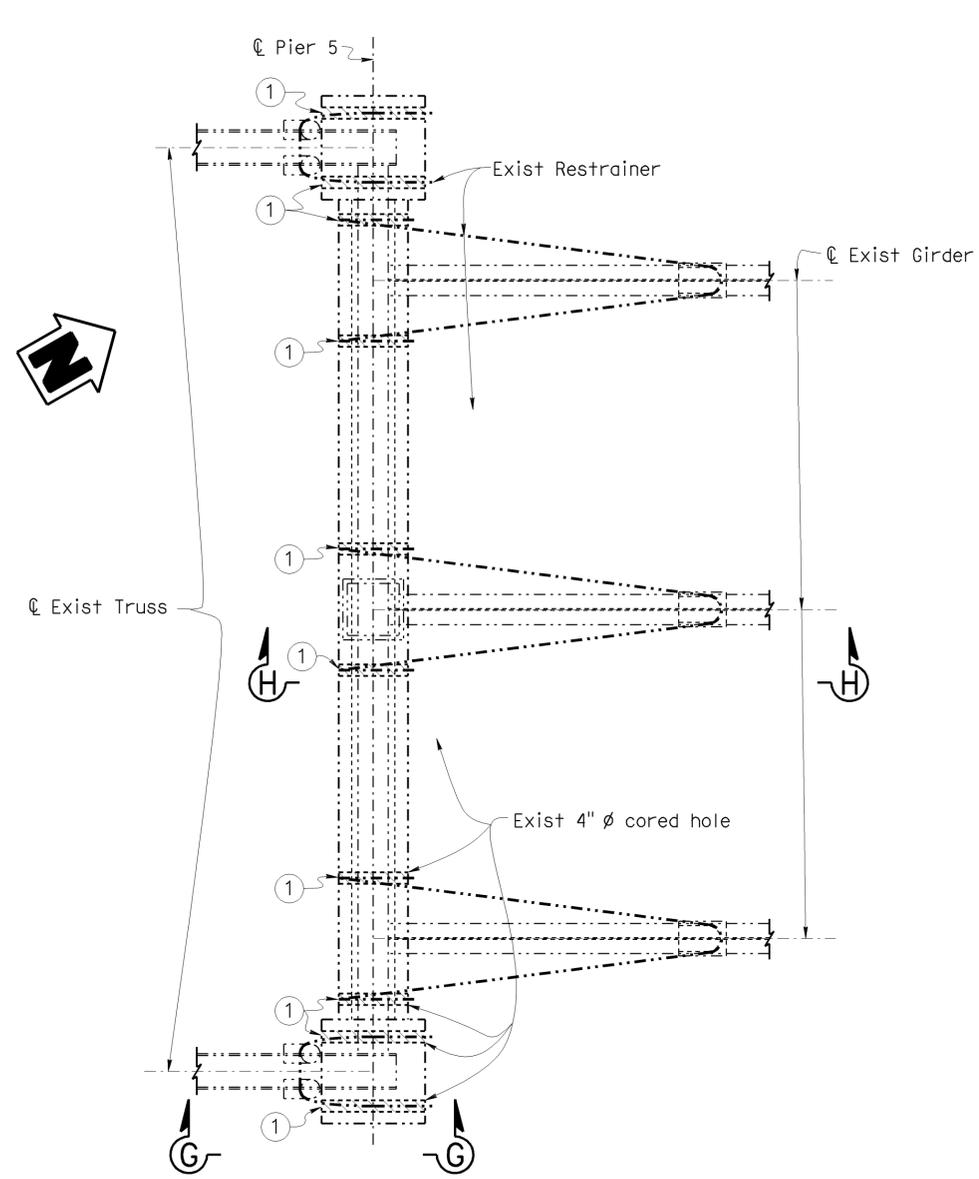
**SPOT BLAST LOCATIONS**  
 Br. No. 10-0113, ROUTE 1, PM 18.5

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

DESIGN BY A. Frank CHECKED P. Kang	DETAILS BY Dale Kubochi CHECKED P. Kang	QUANTITIES BY A. Frank CHECKED P. Kang	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS POST MILE VARIES	<b>ROUTE 1, 20, 101, 162, 175, 271 BRIDGES</b>			
						<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>		<b>DETAILS NO. 1</b>
						UNIT: 3488 PROJECT NUMBER & PHASE: 0100020315	CONTRACT NO.: 01-0A4401	

USERNAME => s109618 DATE PLOTTED => 27-FEB-2013 TIME PLOTTED => 08:01

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	26	27
<i>Arlene Frank</i> 1-04-13 REGISTERED CIVIL ENGINEER DATE					
January 30, 2013 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>					

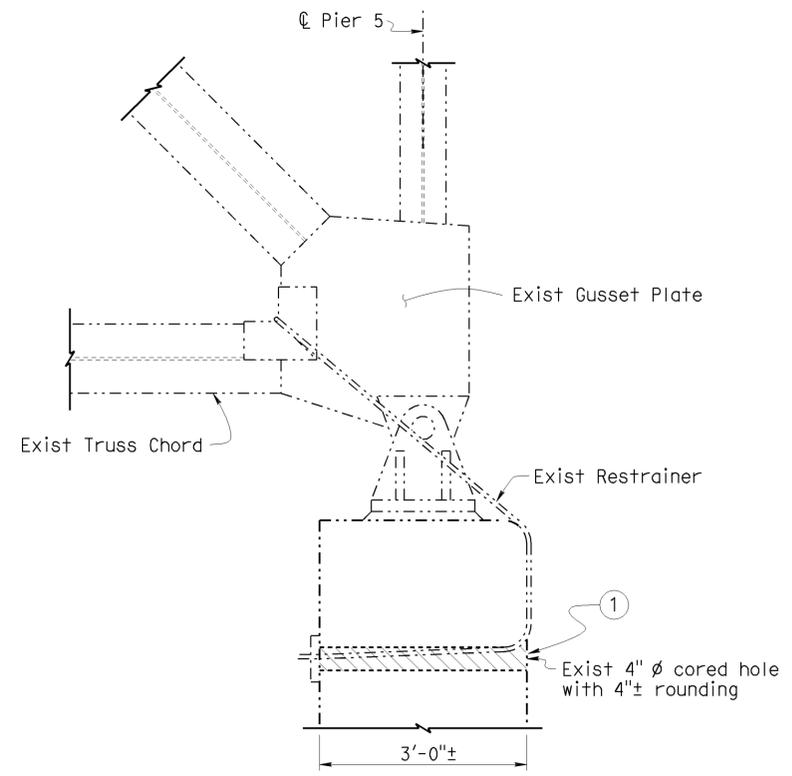


**PLAN**

Br. No. 10-0113, ROUTE 1, PM 18.5  
 $\frac{3}{8}'' = 1'-0''$

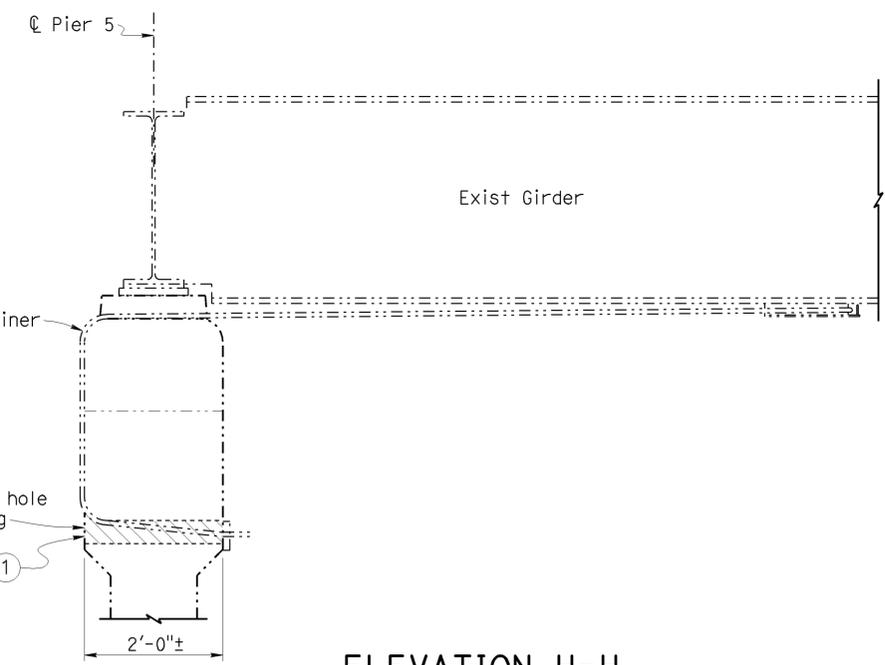
Note:  
 Existing vertical and transverse restrainers not shown for clarity

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



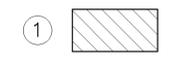
**VIEW G-G**

$\frac{3}{4}'' = 1'-0''$



**ELEVATION H-H**

$\frac{3}{4}'' = 1'-0''$



NOTES: (APPLY TO THIS SHEET ONLY)

1 Clean concrete and cable restrainer and remove debris. Seal opening securely with 6" x 6" - 9 gage galvanized sheet metal.

DESIGN	BY A. Frank	CHECKED P. Kang
DETAILS	BY Dale Kubochi	CHECKED P. Kang
QUANTITIES	BY A. Frank	CHECKED P. Kang

STATE OF CALIFORNIA  
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DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 1, 20, 101, 162, 175, 271 BRIDGES**

**DETAILS NO. 2**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1, 20, 101, 162, 175, 271	Var	27	27

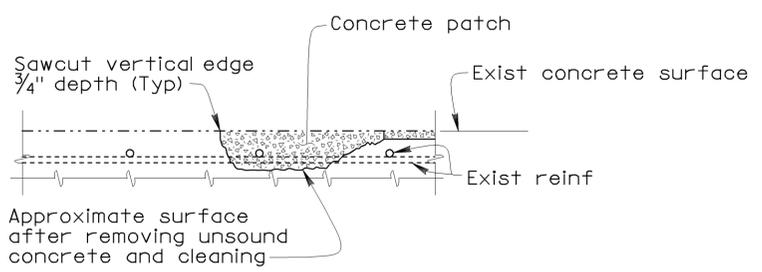
Arlene Frank 1-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 January 30, 2013  
 PLANS APPROVAL DATE  
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JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
GARCIA RIVER	10-0113	Abut 1	BW	1	23.80	No	9
		Pier 2	EJ	1/2	23.80	No	9
		Hinge 2a	H	1/2	23.80	No	11
		Hinge 2b	H	1/2	23.80	No	11
		Pier 3	EJ	1/2	23.80	No	9
		Pier 4	EJ	1	26.80	No	9
		Floorbeam 2	EJ	1/2	23.80	No	9
		Floorbeam 4	EJ	1/2	23.80	No	9
		Floorbeam 6	EJ	1/2	23.80	No	9
		Floorbeam 8	EJ	1/2	23.80	No	9
RUSSIAN RIVER BOH	10-0182	Abut 6	BW	1	23.80	No	9
		Abut 1	BW	1	32.50	No	24
		Pier 2	EJ	1	32.50	No	24
		Pier 3	EJ	1	32.50	No	24
		Pier 4	EJ	1	32.50	No	24
EAST FORK RUSSIAN RIVER	10-0184	Abut 5	BW	1/2	32.50	No	24
		Abut 1	BW	1 1/2*	32.00	No	14
		Pier 2	EJ	1	32.50	No	14
		Pier 3	EJ	2	32.50	No	14
		Pier 4	EJ	1	32.50	No	14
Abut 5	BW	1	32.50	No	14		

- The following notes apply to JOINT SEAL TYPE B:
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
  - Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
  - W1 shall be the smaller of the values determined as follows:
    - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
    - The width of the seal on the third successive test cycle of the pressure deflection test; when compressed to an average pressure of 3 psi.
  - Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
  - For details not shown, see 

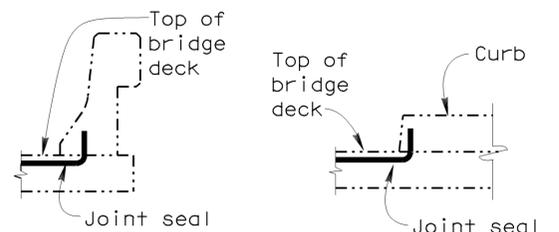
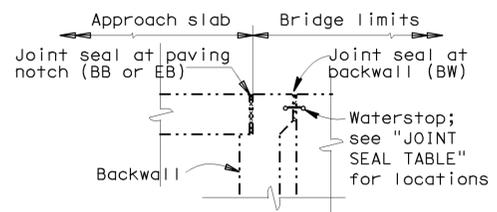
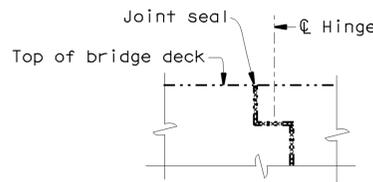
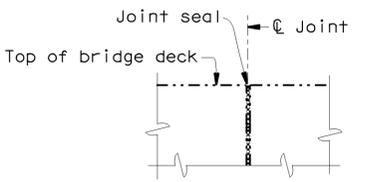
SPALL REPAIR TABLE				
BRIDGE NAME	BRIDGE NUMBER	LOCATION	DIMENSION (INCHES)	AREA (SQFT)
COLD CREEK 1	10-0040	Delamination in bay 11 soffit near abutment 1	20± x 36±	5.0
		Bay 11 soffit near abutment 1	9± x 9±	0.6
		Deck delamination, span 1 right shoulder	12± x 12±	1.0
		Deck delamination, span 1 right lane	7± x 7±	0.3
		Deck delamination, bent 2 right lane	7± x 7±	0.3
		Deck delamination, bent 2 right shoulder	7± x 7±	0.3
		Deck delamination, span 2 right lane	12± x 12±	1.0
		Deck delamination, bent 3 right lane	24± x 12±	2.0
EAST FORK RUSSIAN RIVER	10-0184	Right wingwall face of abutment 1	12± x 12±	1.0
		Right side of abutment 1 backwall surface	6± x 6±	0.3
		Exterior right girder edges in all spans	4± x span lengths	61.3
		Pier 2 on span 2 face, 15 feet from the base	6± x 24±	1.0
		Pier 2 on span 2 face, 10 feet from the base	6± x 36±	1.0
BLUE SLIDE GULCH	10-0166	Upper corner of steel plate near Bent 4 left edge of deck	20± x 9±	0.6
		Upper corner of steel plate near Bent 4 right edge of deck	10± x 9±	0.6

NOTES:  
 \* - Steel finger joint assembly  
 BW - Abutment backwall  
 EJ - Expansion Joint  
 H - Hinge Joint



**SPALL REPAIR DETAIL**

Note: Locations to be determined by the Engineer. Reinforcement may be encountered during concrete removal.



**JOINT SEAL AT LOW SIDE OF DECK**

Notes: Details shown for illustration purposes only. For use only where deck joint matches the sidewalk, curb or barrier rail joint.

NO SCALE

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

**JOINT SEAL LOCATION**

DESIGN	BY A. Frank	CHECKED P. Kang
DETAILS	BY Dale Kubochi	CHECKED P. Kang
QUANTITIES	BY A. Frank	CHECKED P. Kang

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BRIDGE NO.	VARIABLES
POST MILE	VARIABLES

ROUTE 1, 20, 101, 162, 175, 271 BRIDGES  
 JOINT SEAL DETAILS

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