

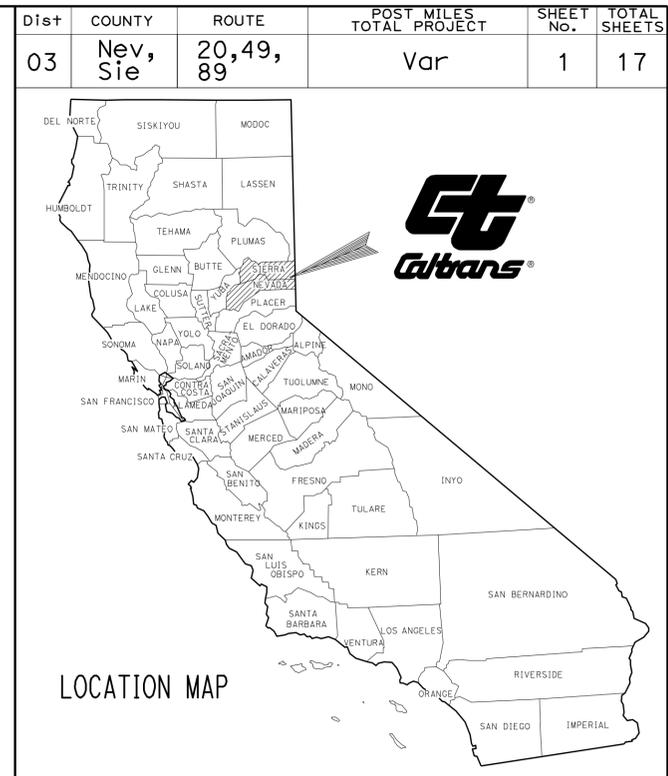
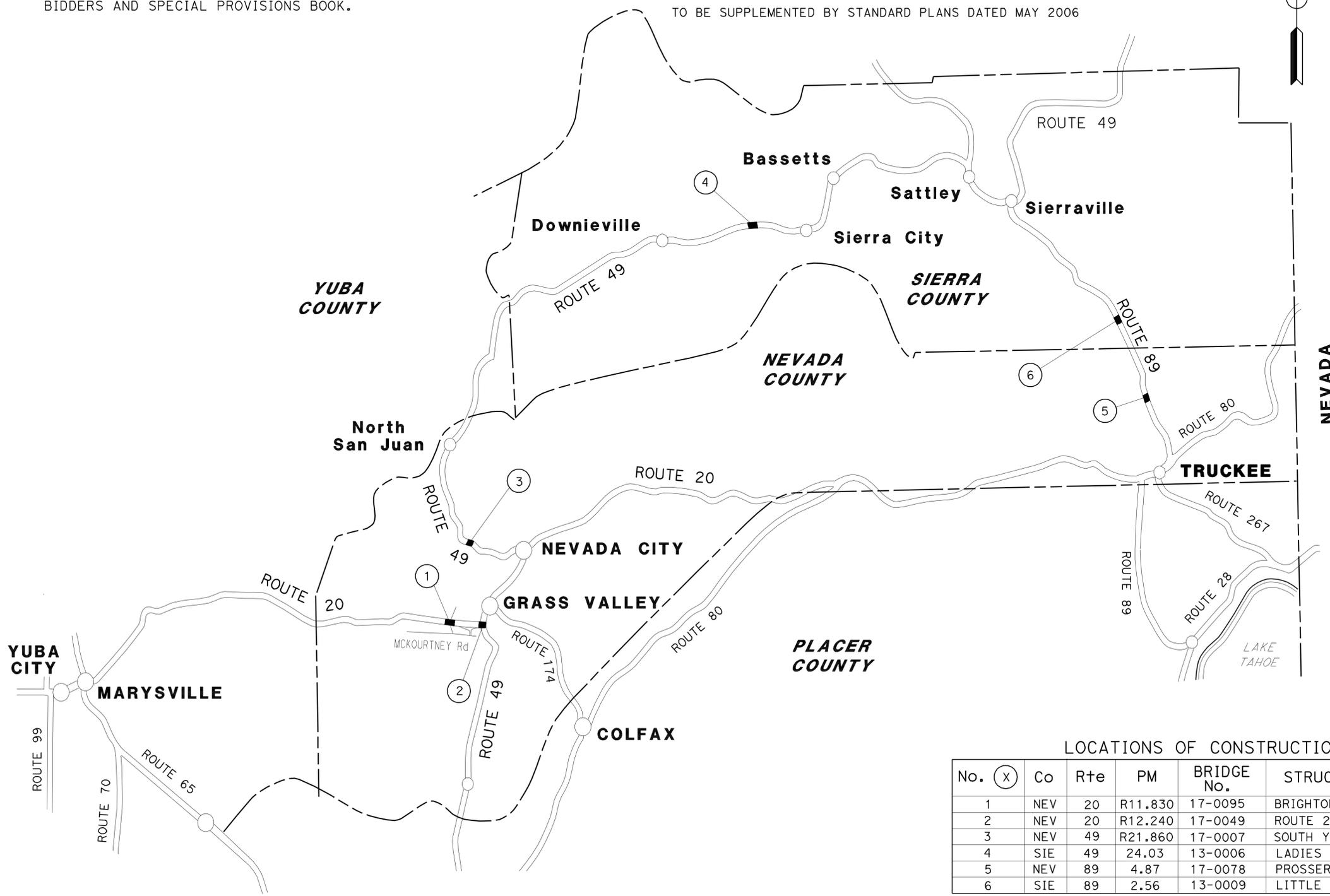
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3	CONSTRUCTION AREA SIGNS
4	STAGE CONSTRUCTION DETAILS
5	PAVEMENT DELINEATION QUANTITIES
6-9	REVISED STANDARD PLANS
STRUCTURE PLANS	
10-17	ROUTES 20, 49 AND 89 BRIDGES

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 NEVADA AND SIERRA COUNTIES
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
BRIAN TOEFFER

 DESIGN ENGINEER
BRIAN TOEFFER

LOCATIONS OF CONSTRUCTION

No.	Co	Rte	PM	BRIDGE No.	STRUCTURE NAME
1	NEV	20	R11.830	17-0095	BRIGHTON STREET OC
2	NEV	20	R12.240	17-0049	ROUTE 20/49 SEPARATION
3	NEV	49	R21.860	17-0007	SOUTH YUBA RIVER
4	SIE	49	24.03	13-0006	LADIES CANYON CREEK
5	NEV	89	4.87	17-0078	PROSSER CREEK
6	SIE	89	2.56	13-0009	LITTLE TRUCKEE RIVER

PROJECT ENGINEER DATE 3-2-11
 REGISTERED CIVIL ENGINEER
February 28, 2011
 PLANS APPROVAL DATE



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

CONTRACT No.	03-3M6704
PROJECT ID	0300000590

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

NO SCALE

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Sie	20,49,80	Var	2	17

D.S. Lamb
 REGISTERED CIVIL ENGINEER DATE 3-2-11
 2-28-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
 No. C53386
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA

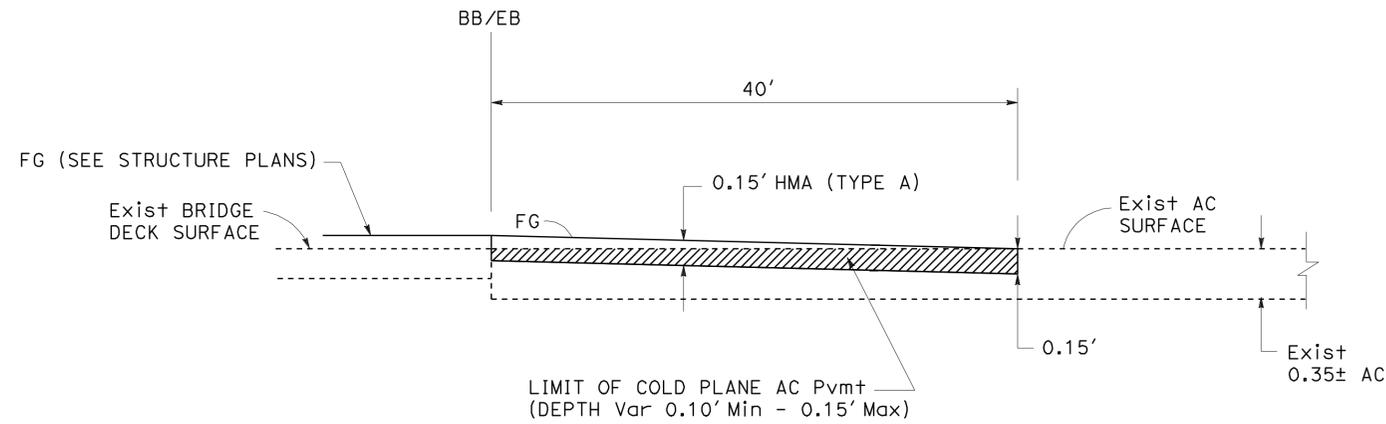
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROADWAY QUANTITIES

LOCATION No.	BRIDGE No.	STRUCTURE NAME	HOT MIX ASPHALT (TYPE A)	COLD PLANE ASPHALT CONCRETE PAVEMENT
			TON	SQYD
5	17-0078	PROSSER CREEK	38	374
6	13-0009	LITTLE TRUCKEE RIVER	38	374
TOTAL			76	748

LEGEND

 COLD PLANE AC PAVEMENT



PROFILE

LOCATION 5 AND 6

NO SCALE

BRIDGE APPROACH AND DEPARTURE PAVEMENT CONFORM

NOTE: COLD PLANE OF APPROACH AND DEPARTURE IS EP TO EP (PARALLEL TO EDGE OF DECK) AND AS DIRECTED BY THE ENGINEER.

CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 BRIAN TOEFFER
 CALCULATED/DESIGNED BY
 CHECKED BY
 DAVID LAMB
 SHAHRAM RAISI
 REVISOR BY
 DATE REVISOR
 DAVID LAMB



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	10
(B)		C14	48" x 24"	END ROAD WORK	1 - 4" X 6"	12
(C)		C24	48" X 48"	SHOULDER WORK AHEAD	1 - 6" X 6"	2
(D)	W21-5bR		48" X 48"	RIGHT SHOULDER CLOSED AHEAD	1 - 6" X 6"	2
(E)		C30A	48" X 48"	SHOULDER CLOSED	1 - 6" X 6"	2

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Legend:

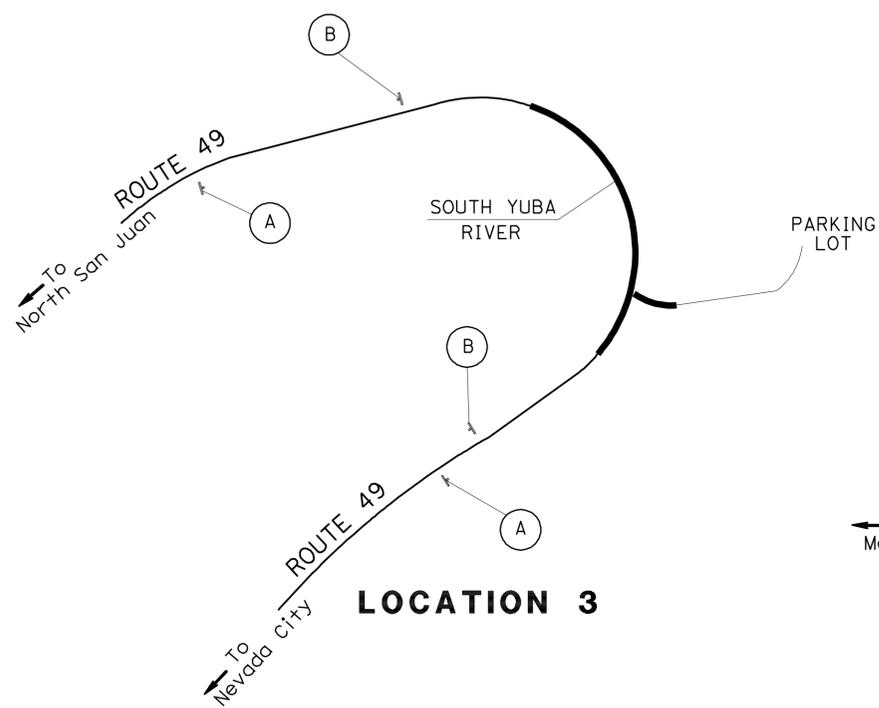
- ▲ SINGLE POST SIGN

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Sie	20,49,80	Var	3	17

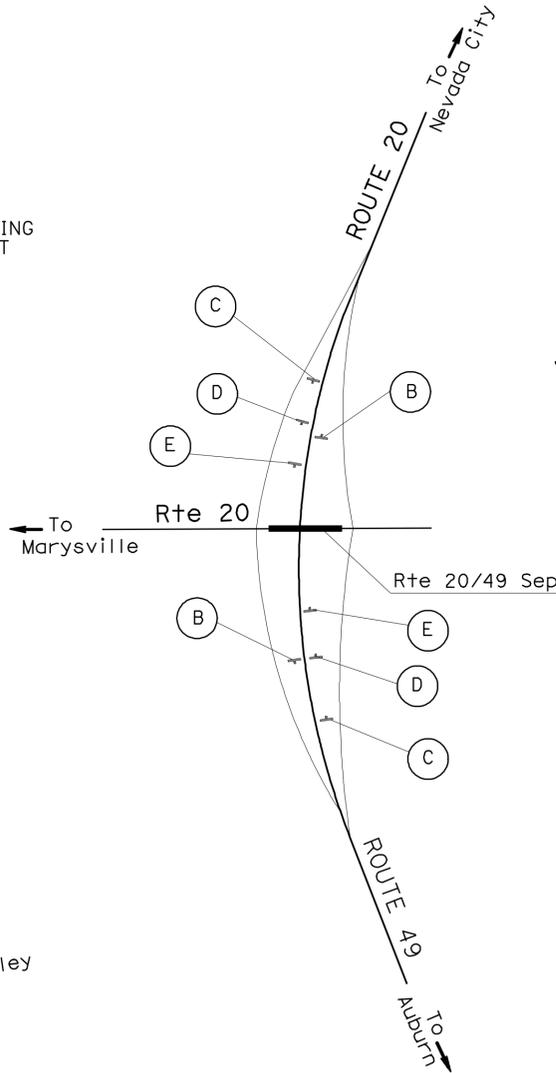
David S. Lamb
 REGISTERED CIVIL ENGINEER 3-2-11 DATE
 2-28-11
 PLANS APPROVAL DATE

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

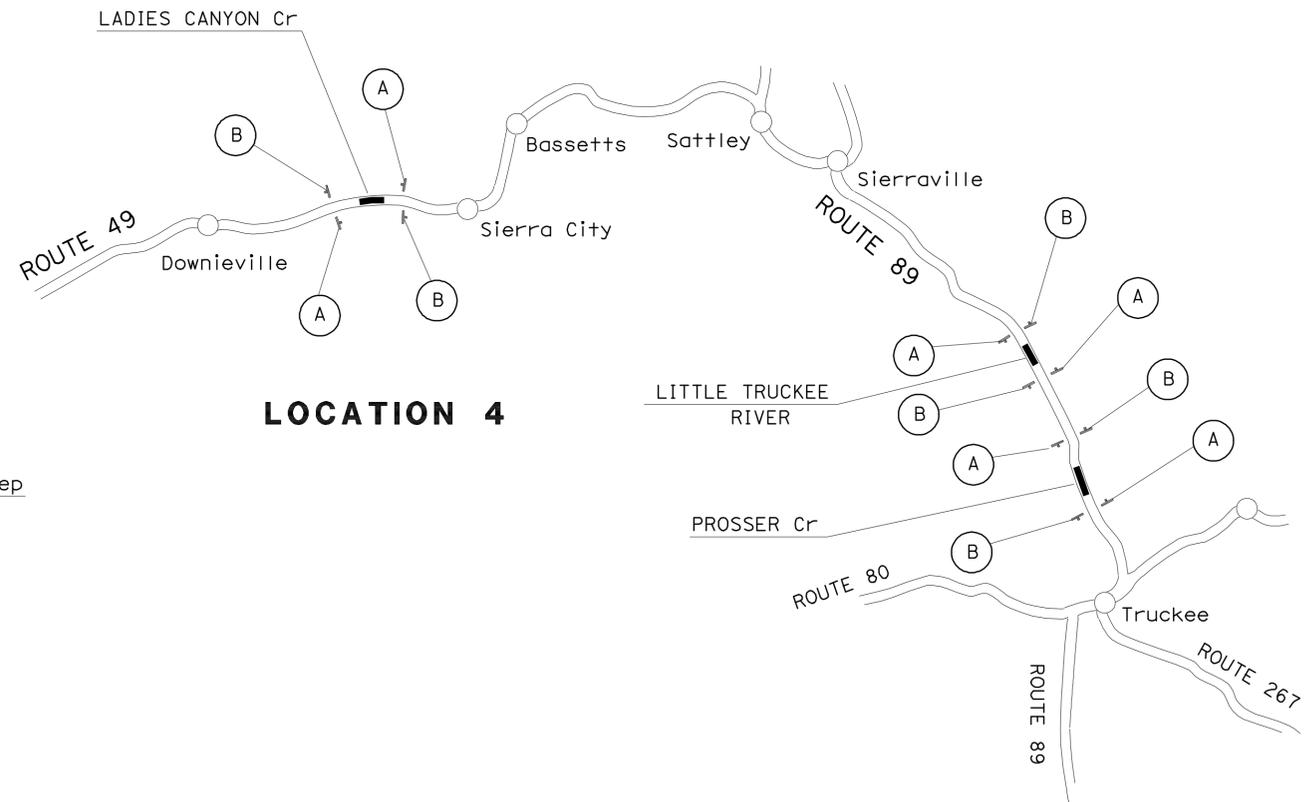
REGISTERED PROFESSIONAL ENGINEER
DAVID S. LAMB
 No. C53386
 Exp. 6-30-11
 CIVIL
 STATE OF CALIFORNIA



LOCATION 3

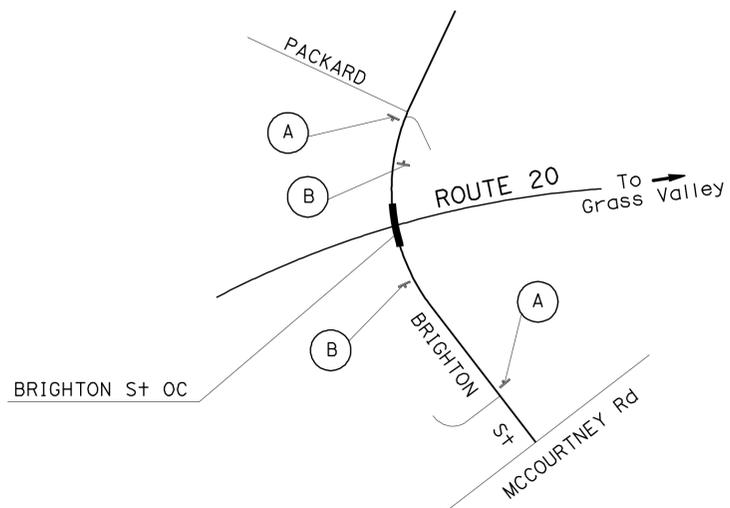


LOCATION 2



LOCATION 4

LOCATION 5, 6



LOCATION 1

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: BRIAN TOEPFER
 CALCULATED BY: SHAHRAM RAISI
 DESIGNED BY: JOHN KEBER
 CHECKED BY:
 REVISOR: REVISED BY: DATE
 REVISED:

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Nev,Sie	20,49,80	Var	5	17

Jeffrey S Jewett
 REGISTERED CIVIL ENGINEER DATE 3-1-11
 2-28-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffrey S Jewett
 No. 49233
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

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

TWO-COMPONENT PAINT TRAFFIC STRIPE

LOCATION	4" TWO-COMPONENT PAINT TRAFFIC STRIPE			4" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36 - 12)	8" TWO-COMPONENT PAINT TRAFFIC STRIPE
	DETAIL NUMBER			DETAIL NUMBER	DETAIL NUMBER
	21 (LF)	27B (LF)	27C (LF)	5 (LF)	38A (LF)
1	314	314			
3	940	730	130		245
4	46	46			
5		422		211	
6		500		250	
SUBTOTAL	1300	2012	130	461	
TOTAL	3442			461	245

TWO-COMPONENT PAINT PAVEMENT MARKING

LOCATION NUMBER	TYPE III ARROW	"STOP"	LIMIT LINE
	SQFT	SQFT	SQFT
3	84	44	30
SUBTOTAL	84	44	30
TOTAL	158		

REMOVE TRAFFIC STRIPE

LOCATION	DESCRIPTION	
	EDGE LINE (LF)	8" CHANNELIZING LINE (LF)
1	314	
3	860	490
4	46	
5	262	
6	340	
SUBTOTAL	1822	490
TOTAL	2312	

REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION	DESCRIPTION CENTERLINE (LF)
1	314
3	940
4	46
5	48
6	36
TOTAL	1384

REMOVE PAINTED PAVEMENT MARKING

LOCATION NUMBER	TYPE III ARROW	"STOP"	LIMIT LINE
	SQFT	SQFT	SQFT
3	84	44	30
SUBTOTAL	84	44	30
TOTAL	158		

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

x
x
x
x
x
x
x

REVISOR: CHUCK COOK, JEFF JEWETT
 DATE: 7/2/2010

FUNCTIONAL SUPERVISOR

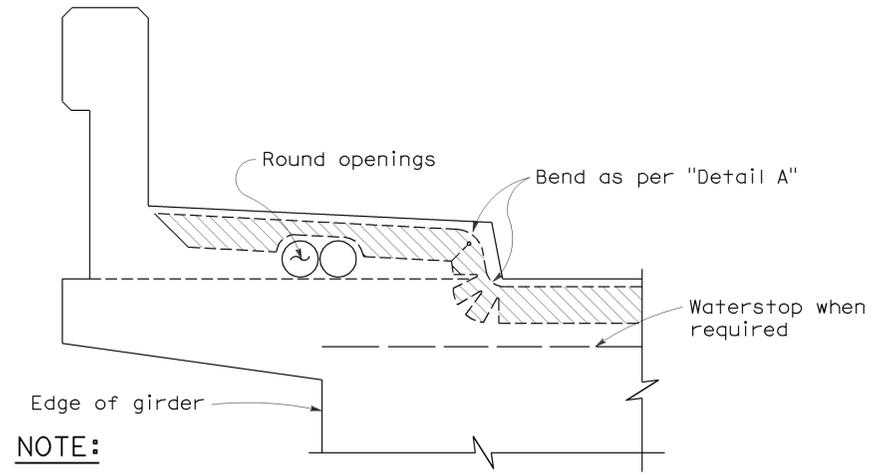
USERNAME => s127238
 DGN FILE => 0300000590nc001.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0484 PROJECT NUMBER & PHASE 0300000590

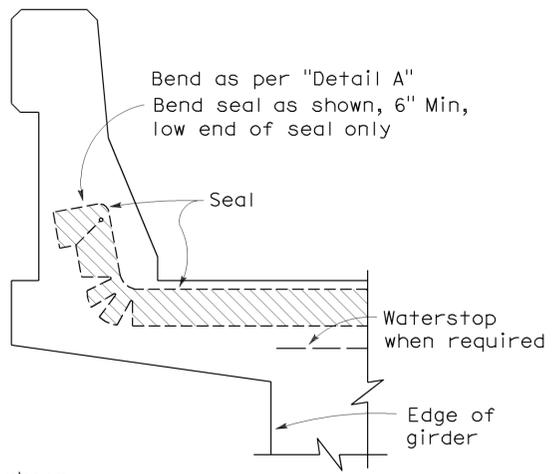
LAST REVISION: 00-200-100
 DATE PLOTTED => 02-MAR-2011
 TIME PLOTTED => 13:21

2006 REVISED STANDARD PLAN RSP B6-21

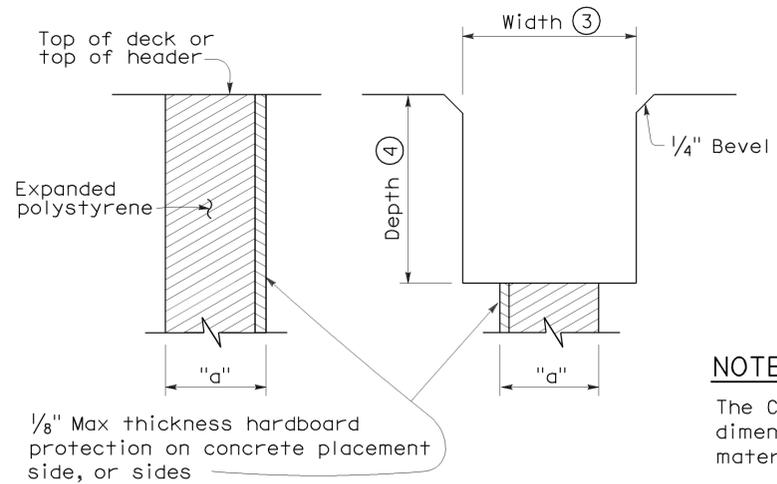


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



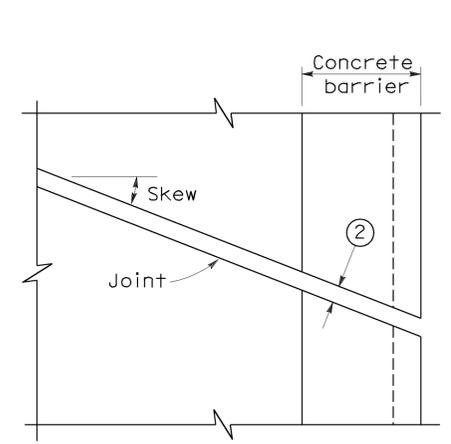
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

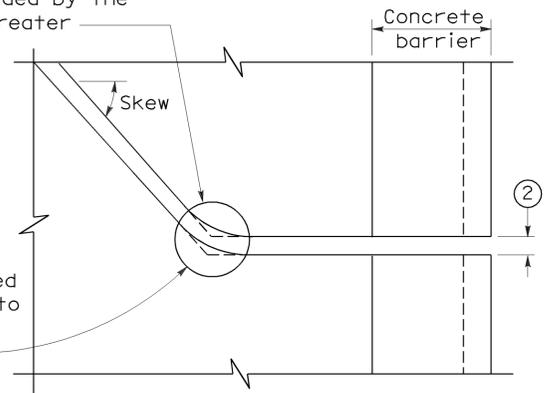
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



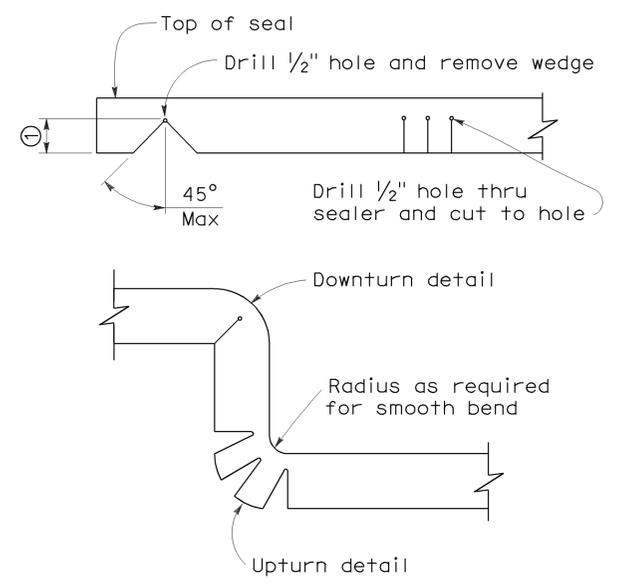
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



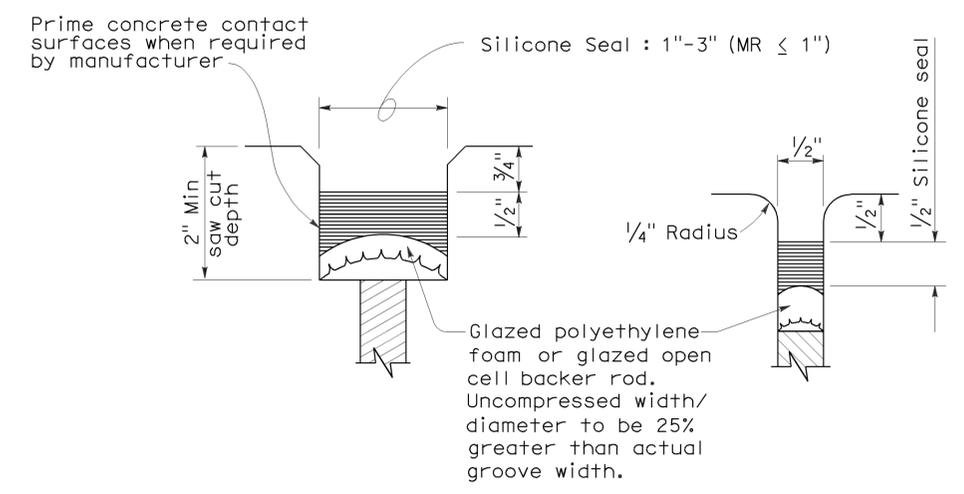
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

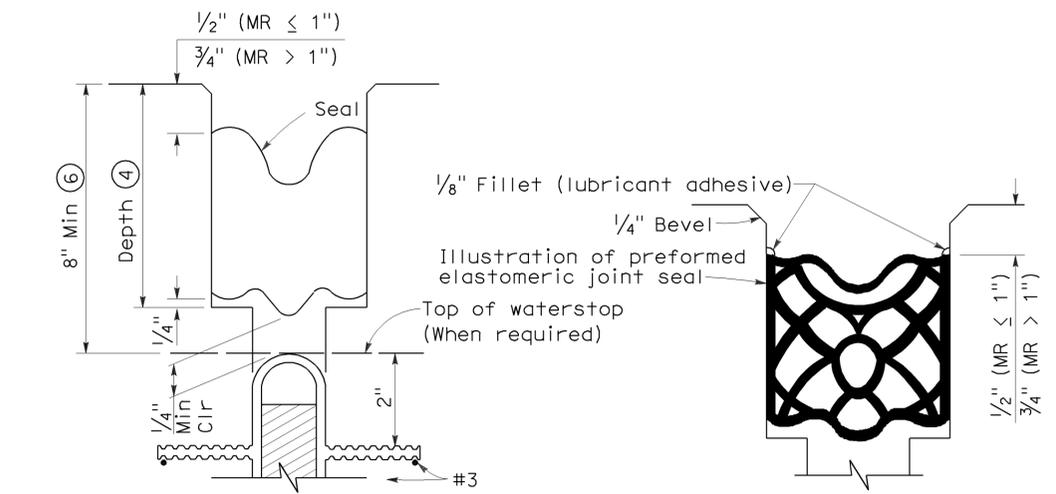


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

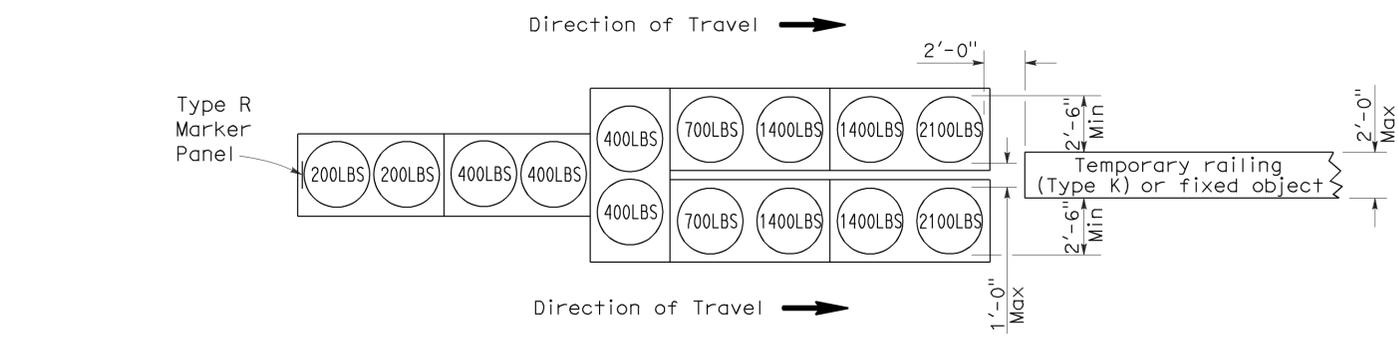
TYPE B SEAL

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

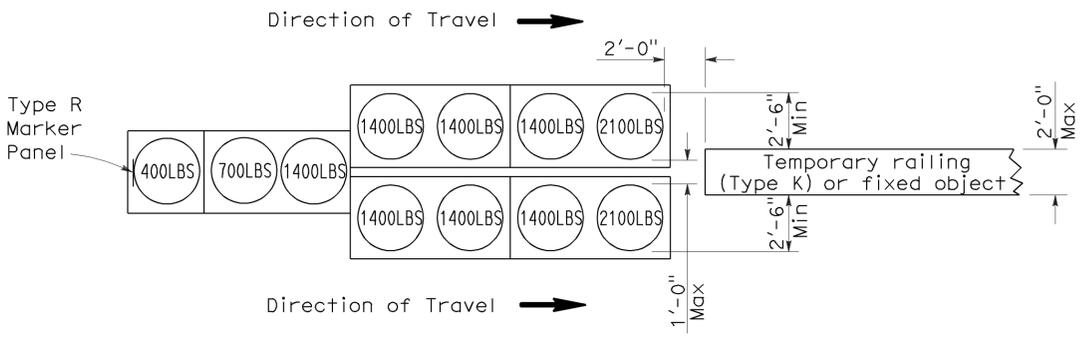
REVISED STANDARD PLAN RSP B6-21

To accompany plans dated 2-28-11



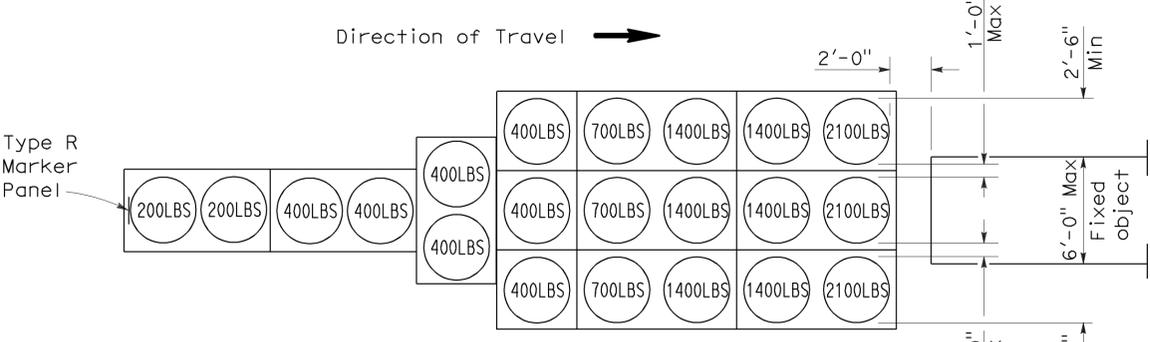
ARRAY 'TU14'

Approach speed 45 mph or more



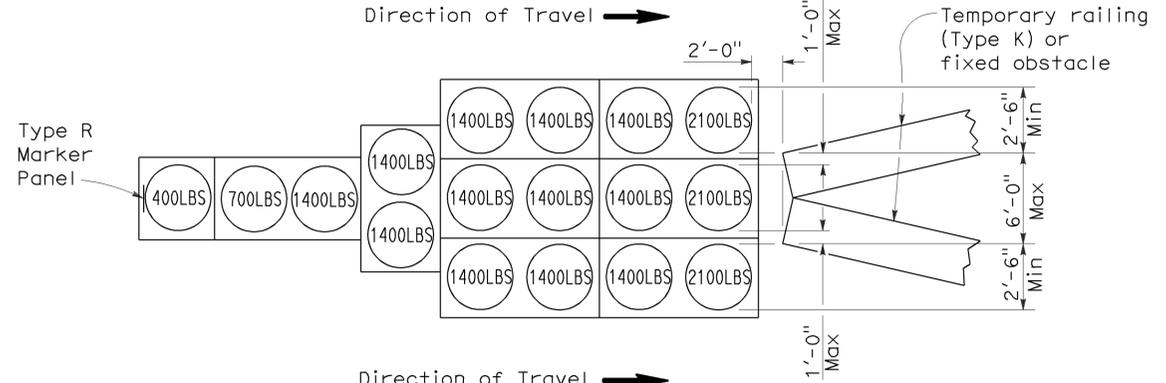
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

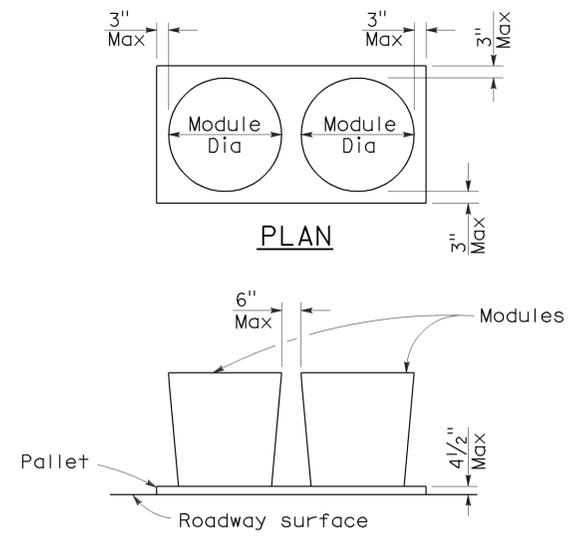


ARRAY 'TU17'

Approach speed less than 45 mph

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.



CRASH CUSHION PALLET DETAIL
See Note 7

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
03	Nev, Sie	20,49, 89	Var	8	17

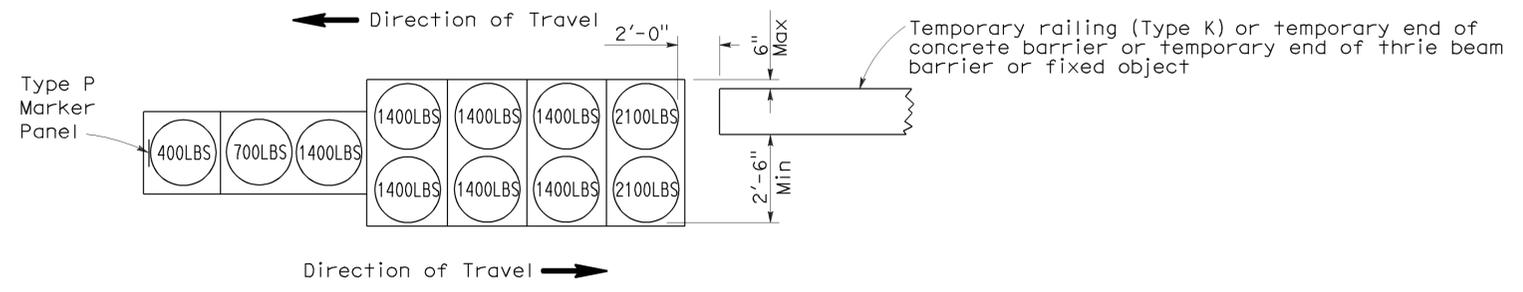
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

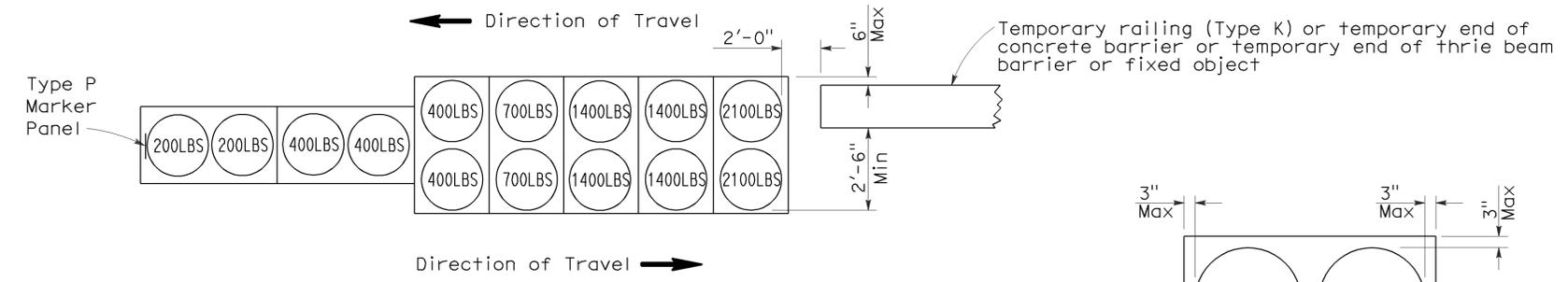
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-28-11



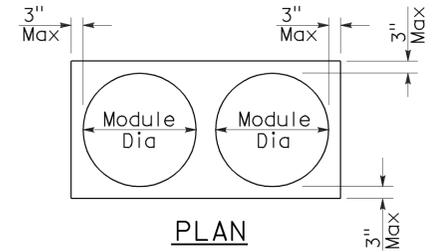
ARRAY 'TB11'

Approach speed less than 45 mph

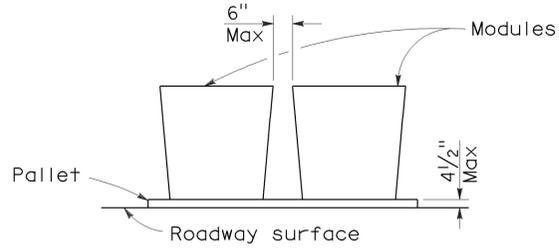


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Nev, Sie	20,49, 89	Var	9	17

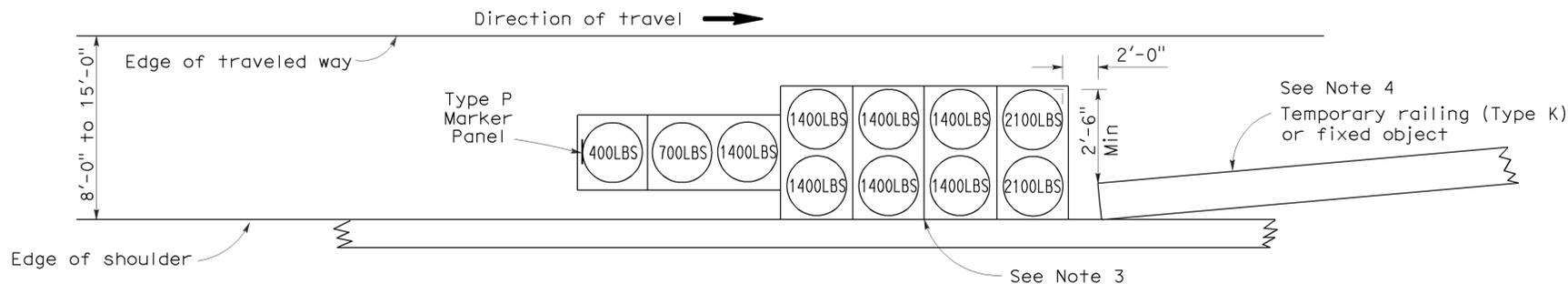
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

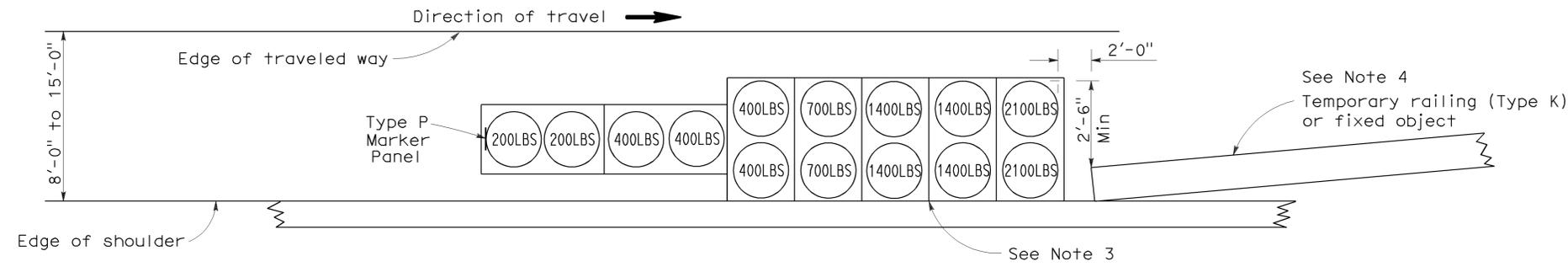
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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.

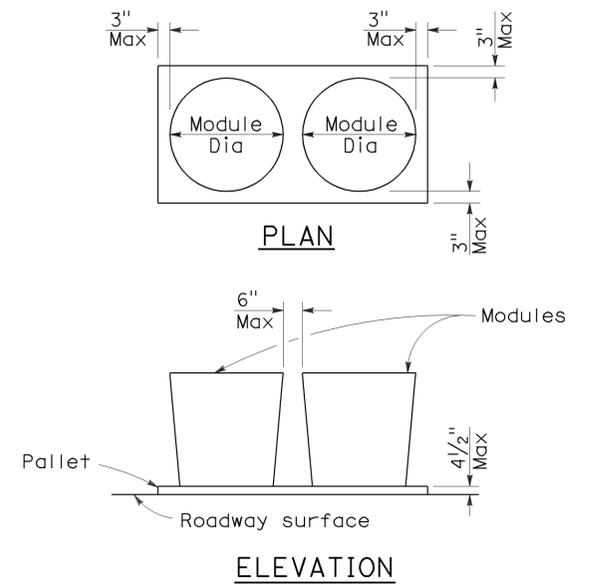
To accompany plans dated 2-28-11



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

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	10	17

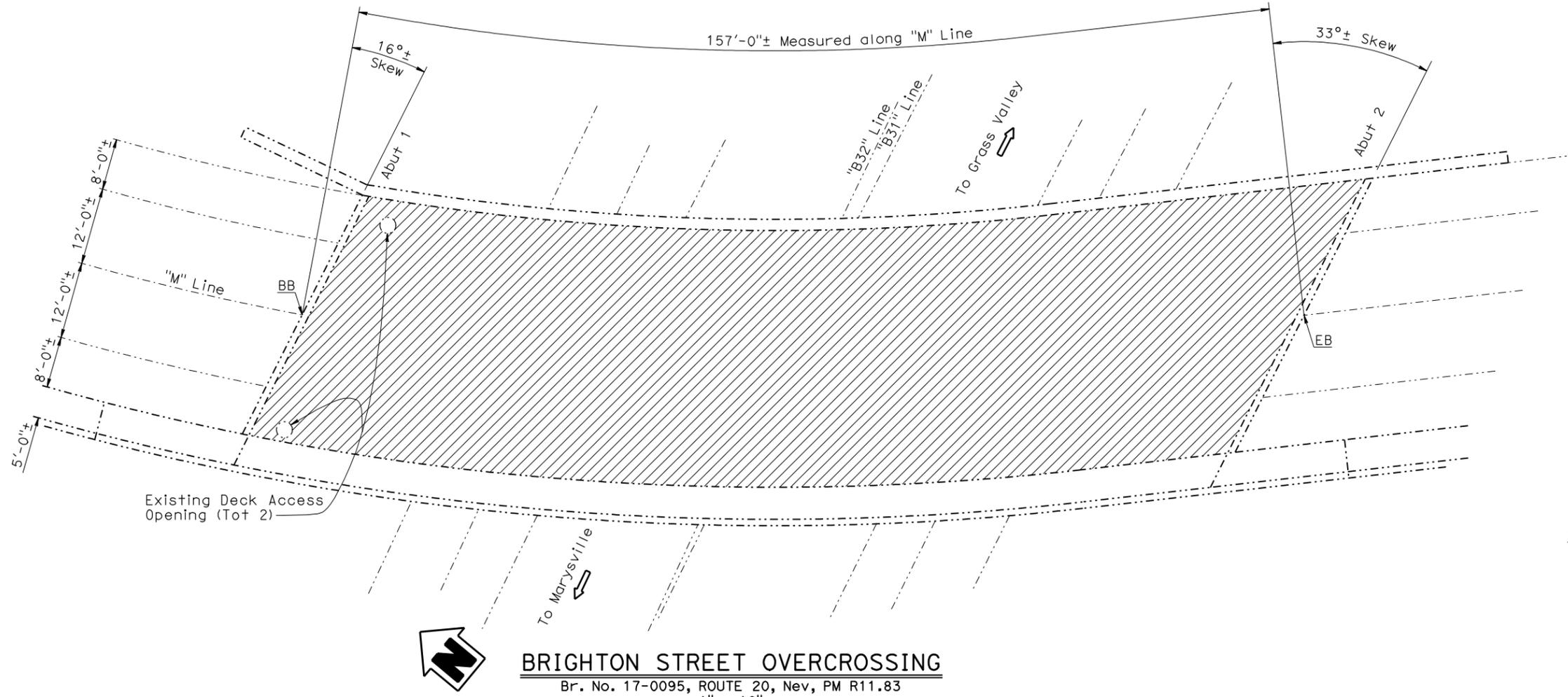
REGISTERED CIVIL ENGINEER DATE 12-15-10
 QUANG M. VO
 No. C 055211
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-28-11

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 ALL SHEETS)

----- Indicates existing.



BRIGHTON STREET OVERCROSSING
 Br. No. 17-0095, ROUTE 20, Nev, PM R11.83
 1" = 10"

BRIGHTON STREET OC QUANTITIES		BR NO 17-0095	
REMOVE UNSOUND CONCRETE	16	CF	
CLEAN BRIDGE DECK	6,570	SQFT	
RAPID SETTING CONCRETE (PATCH)	16	CF	
TREAT BRIDGE DECK	6,570	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	73	GAL	

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	MISCELLANEOUS DETAILS NO. 1
6	MISCELLANEOUS DETAILS NO. 2
7	MISCELLANEOUS DETAILS NO. 3
8	JOINT SEAL DETAILS

STANDARD PLANS DATED MAY 2006

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

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


 DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Q. Vo	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Q. Vo	SPECIFICATIONS	BY M. Kopsa	PLANS AND SPECS COMPARED M. Kopsa
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo			

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

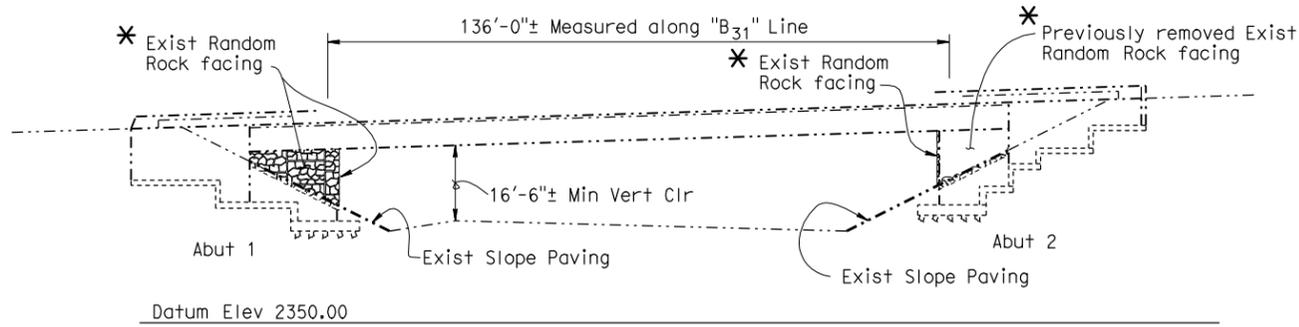
ROUTES 20, 49, 89 BRIDGES
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	11	17

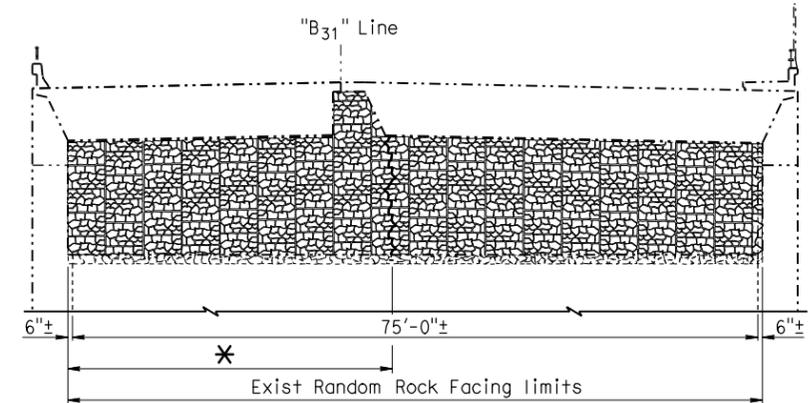
REGISTERED CIVIL ENGINEER DATE 12-15-10
 QUANG M. VO
 No. C 055211
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 2-28-11
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTE: (APPLY TO THIS ONLY)

* - Replace existing Random Rock Facing. For removal and replacement limits, see details on "MISCELLANEOUS DETAILS NO. 1" sheet

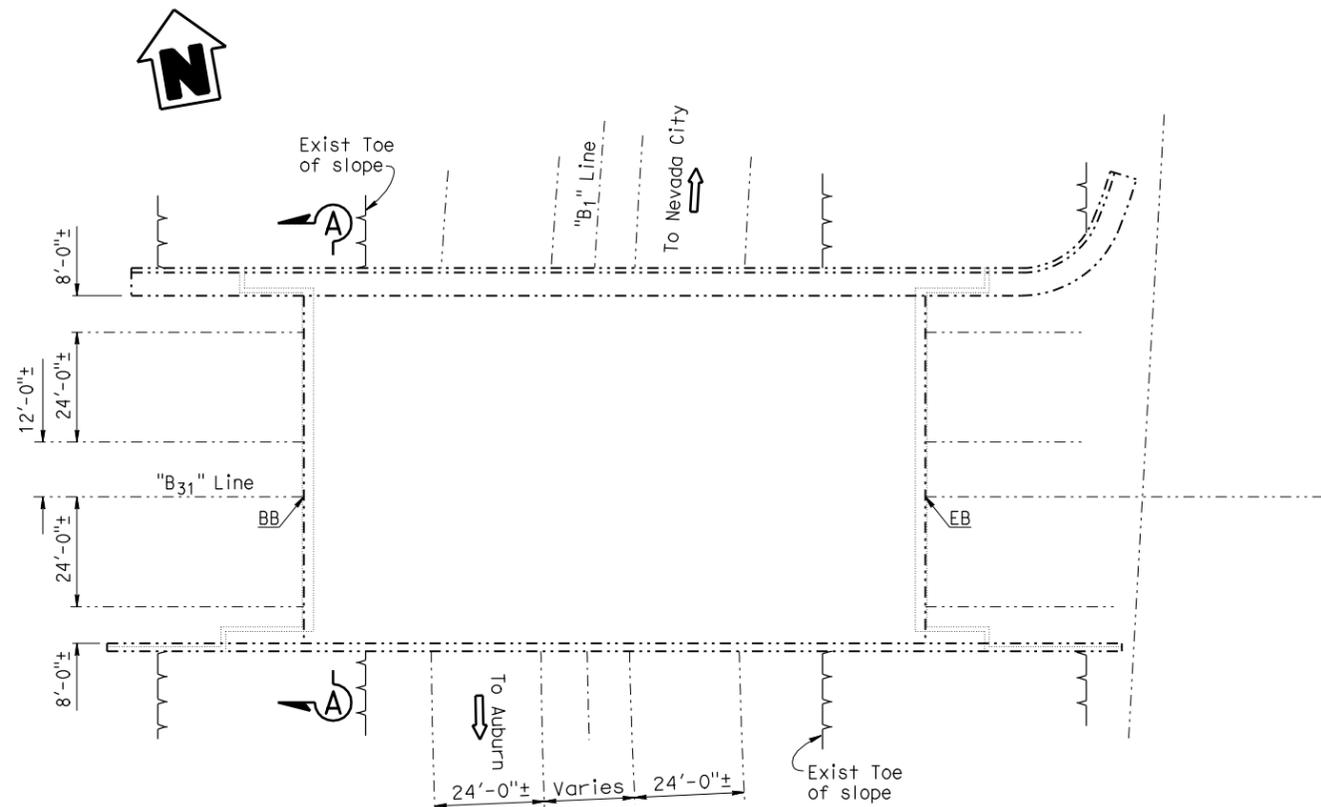


ELEVATION
1" = 20'



SECTION A-A
1" = 10'

Note:
Abutment 1 shown, Abutment 2 similar



PLAN
1" = 20'

ROUTE 20/49 SEPARATION
QUANTITIES
BRIDGE REMOVAL (PORTION), LOCATION A
RANDOM ROCK FACING
DRILL AND BOND BOLTS
MINOR CONCRETE (VOID)
MISCELLANEOUS METAL (BRIDGE)

BR NO 17-0049
LUMP SUM
1,200 SQFT
106 LF
4.2 CY
226 LB

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

ROUTE 20/49 SEPARATION

Br. No. 17-0049, ROUTE 20, Nev, PM R12.24

Matthew Lee
DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Q. Vo
DETAILS	BY Dale Kubochi	CHECKED Q. Vo
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo

LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
SPECIFICATIONS	BY M. Kopsa	PLANS AND SPECS COMPARED M. Kopsa

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

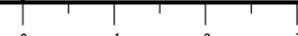
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 20, 49, 89 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03
EA 3M6701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

9-22-10	11-9-10	12-9-10			
---------	---------	---------	--	--	--

SHEET 2 OF 8

FILE => 03-3m6701-a-gp02.dgn
DATE PLOTTED => 01-MAR-2011
TIME PLOTTED => 12:55
USERNAME => s124428

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment remove unsound concrete and patch with rapid setting concrete.

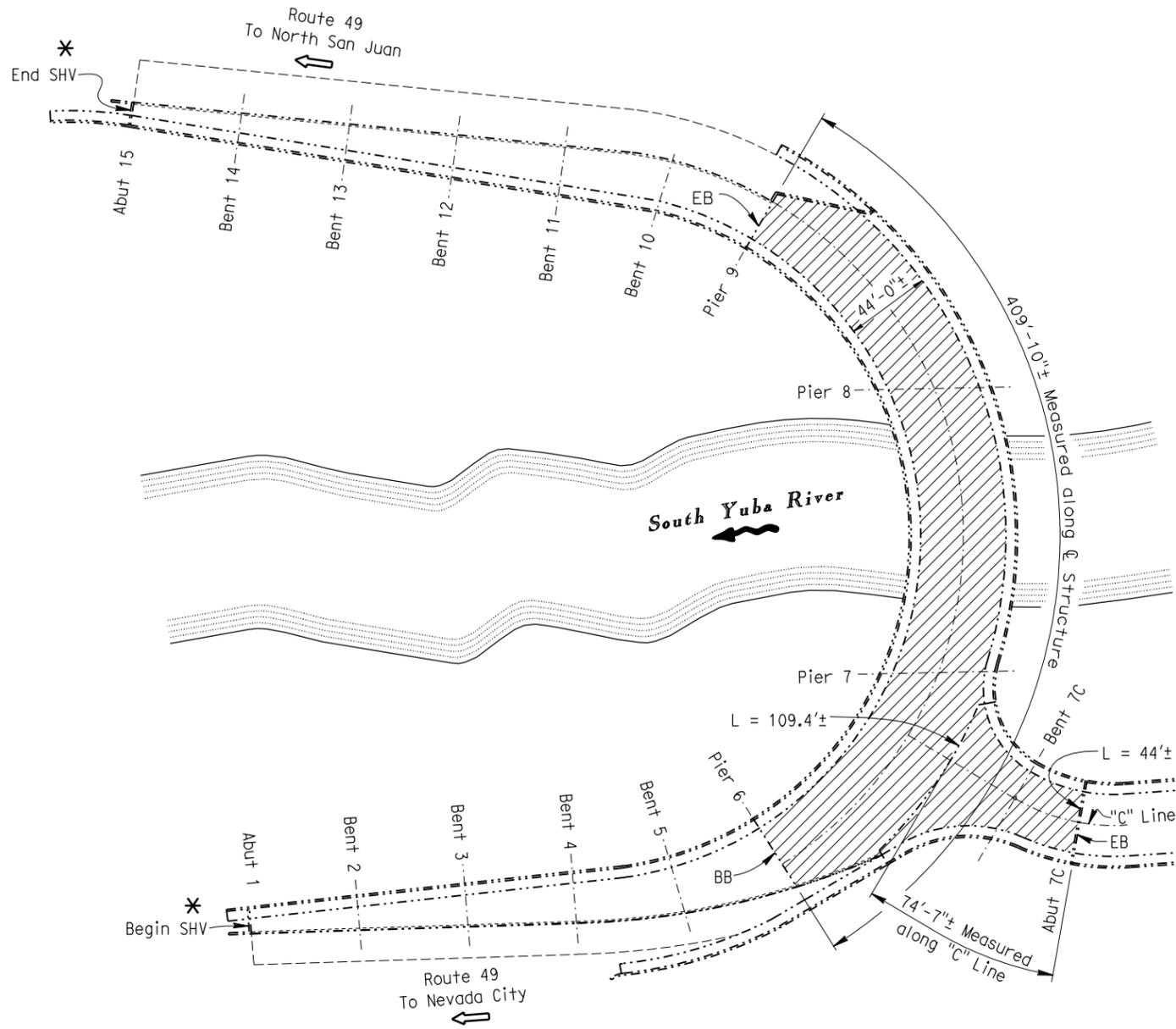
* - SHV = Sidehill Viaduct

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	12	17

REGISTERED CIVIL ENGINEER DATE 12-15-10
 QUANG M. VO
 No. C 055211
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-28-11

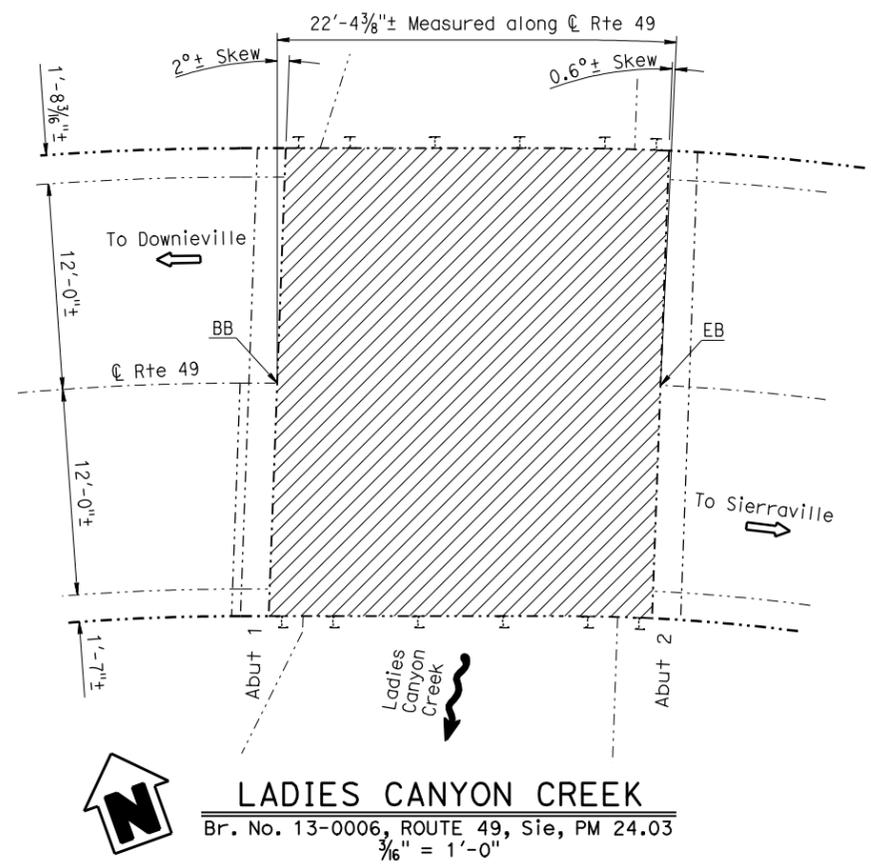
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



SOUTH YUBA RIVER
 Br. No. 17-0007, ROUTE 49, Nev, PM R21.86
 1" = 40'

SOUTH YUBA RIVER QUANTITIES		BR NO 17-0007	
REMOVE UNSOUND CONCRETE	54	CF	
CLEAN BRIDGE DECK	21,600	SQFT	
RAPID SETTING CONCRETE (PATCH)	54	CF	
TREAT BRIDGE DECK	21,600	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	240	GAL	

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



LADIES CANYON CREEK
 Br. No. 13-0006, ROUTE 49, Sie, PM 24.03
 3/16" = 1'-0"

LADIES CANYON CREEK QUANTITIES		BR NO 13-0006	
REMOVE UNSOUND CONCRETE	2	CF	
CLEAN BRIDGE DECK	624	SQFT	
RAPID SETTING CONCRETE (PATCH)	2	CF	
TREAT BRIDGE DECK	624	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	7	GAL	


 DESIGN ENGINEER 11-17-10

DESIGN	BY M. Hashimoto	CHECKED Q. Vo	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Q. Vo	SPECIFICATIONS	BY M. Kopsa	PLANS AND SPECS COMPARED M. Kopsa
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo			

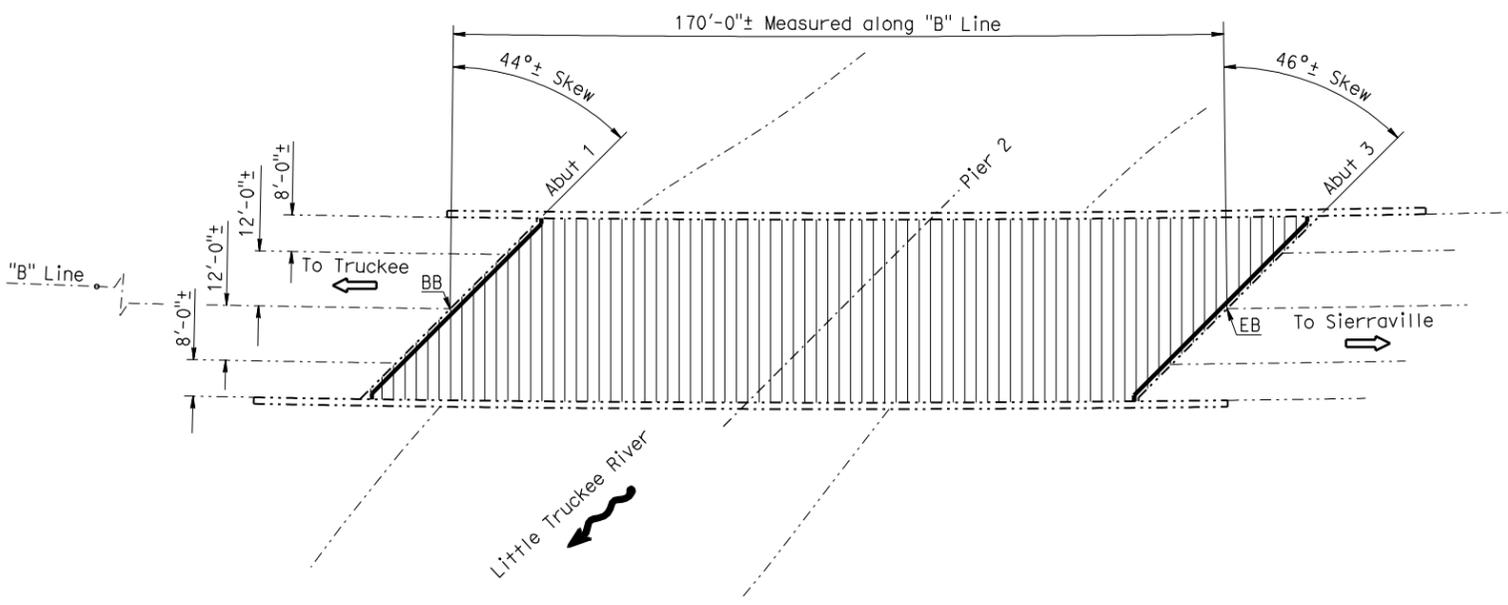
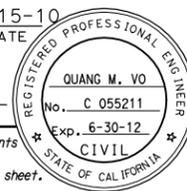
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTES 20, 49, 89 BRIDGES
 GENERAL PLAN NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	13	17
			12-15-10		
REGISTERED CIVIL ENGINEER			DATE		
			2-28-11		
			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>					



LITTLE TRUCKEE RIVER
 Br. No. 13-0009, ROUTE 89, Sie, PM 2.6
 1" = 20"

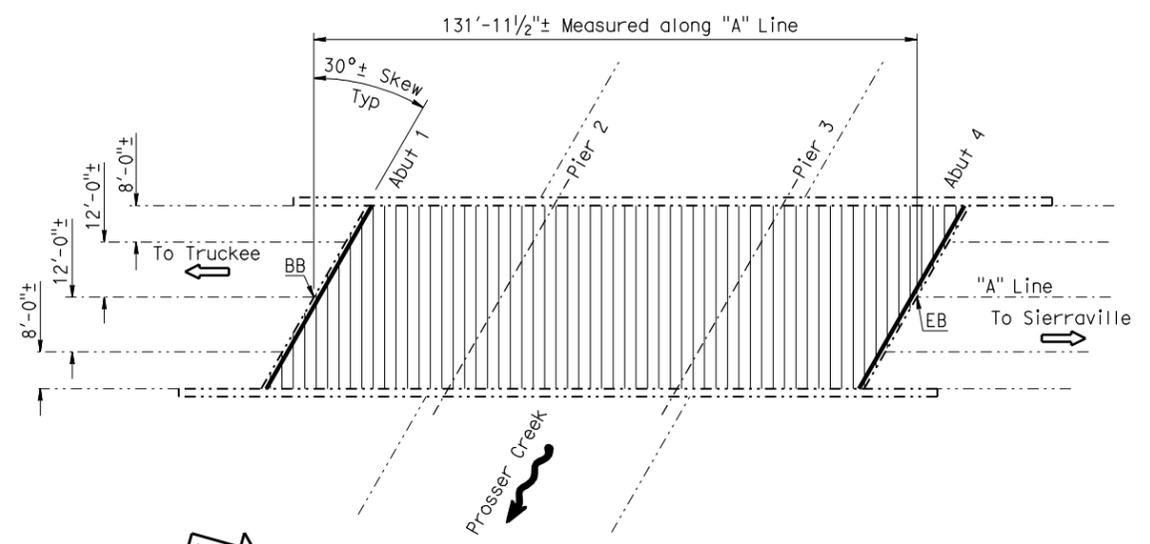
Note:
 For additional details, see "MISCELLANEOUS DETAILS NO. 2" sheet.

LITTLE TRUCKEE RIVER QUANTITIES		BR NO 13-0009
REMOVE UNSOUND CONCRETE	17	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,800	SQFT
CLEAN EXPANSION JOINT	111	LF
RAPID SETTING CONCRETE (PATCH)	17	CF
FURNISH POLYESTER CONCRETE OVERLAY	510	CF
PLACE POLYESTER CONCRETE OVERLAY	6,800	SQFT
SNOWPLOW DEFLECTOR	14	EA
JOINT SEAL (MR 1 1/2")	111	LF

NOTES: (APPLY TO THIS SHEET ONLY)

 Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. See "Deck Overlay Detail" on "JOINT SEAL DETAILS" sheet.

 Indicates location of remove existing joint seal and place new joint seal.



PROSSER CREEK
 Br. No. 17-0078, ROUTE 89, Nev, PM 4.87
 1" = 20"

Note:
 For additional details, see "MISCELLANEOUS DETAILS NO. 3" sheet.

PROSSER CREEK QUANTITIES		BR NO 17-0078
REMOVE UNSOUND CONCRETE	13	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,278	SQFT
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP	SUM
CLEAN EXPANSION JOINT	94	LF
RAPID SETTING CONCRETE (PATCH)	13	CF
FURNISH POLYESTER CONCRETE OVERLAY	396	CF
PLACE POLYESTER CONCRETE OVERLAY	5,278	SQFT
SNOWPLOW DEFLECTOR	14	EA
JOINT SEAL (MR 1")	94	LF

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

 11-17-10
 DESIGN ENGINEER

DESIGN	BY M. Hashimoto	CHECKED Q. Vo	LAYOUT	BY Dale Kubochi	CHECKED M. Hashimoto
DETAILS	BY Dale Kubochi	CHECKED Q. Vo	SPECIFICATIONS	BY M. Kopsa	PLANS AND SPECS COMPARED M. Kopsa
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo			

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES

ROUTES 20, 49, 89 BRIDGES
GENERAL PLAN NO. 4

USERNAME => s124428 DATE PLOTTED => 01-MAR-2011 TIME PLOTTED => 12:56

Remove existing random rock facing front face abutment and retaining wall. Roughen exposed surface 1/4"± amplitude

Note:
 (A) - Match Exist Random Rock Facing

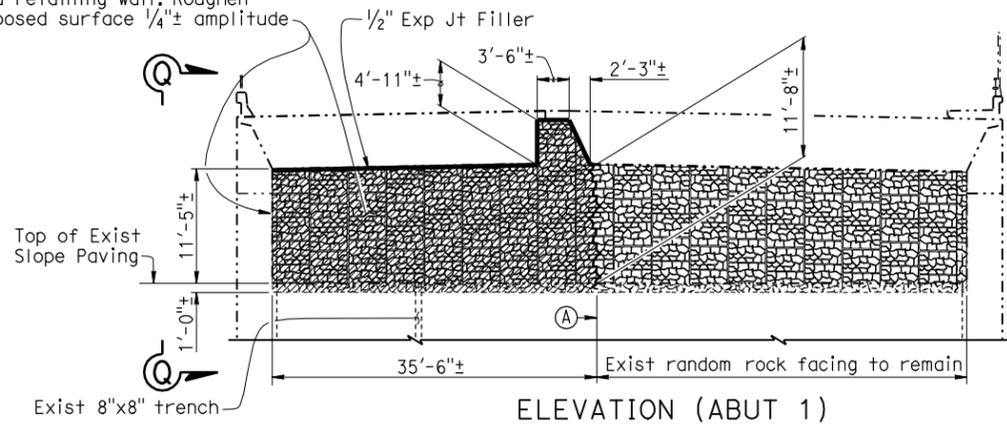
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	14	17

12-15-10
 REGISTERED CIVIL ENGINEER DATE

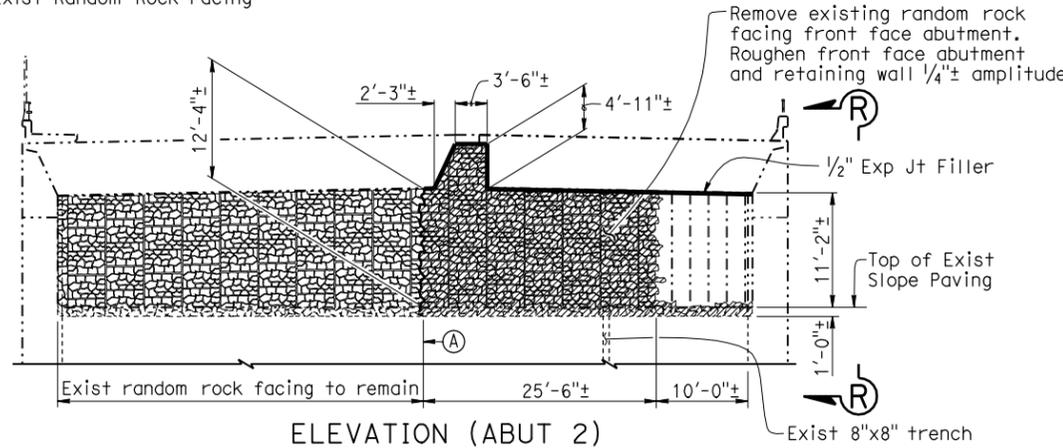
2-28-11
 PLANS APPROVAL DATE

STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 QUANG M. VO
 No. C 055211
 Exp. 6-30-12
 CIVIL

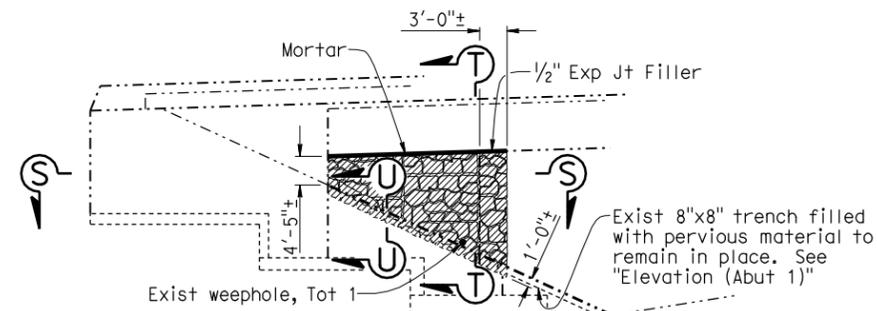
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



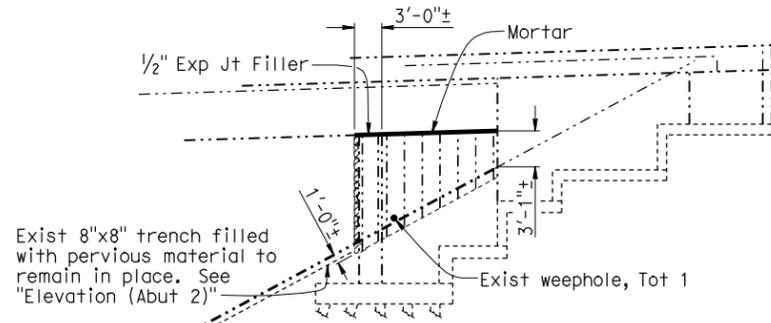
ELEVATION (ABUT 1)



ELEVATION (ABUT 2)

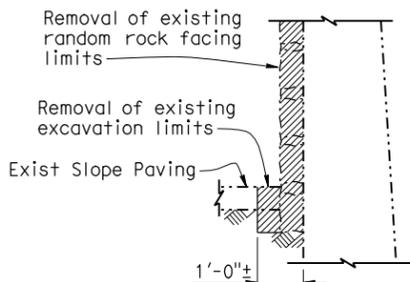


VIEW Q-Q

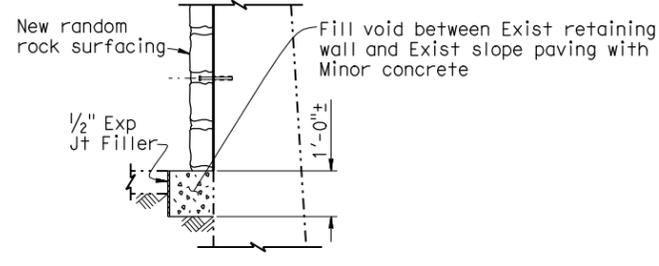


VIEW R-R

EXISTING
 1" = 10'



EXISTING

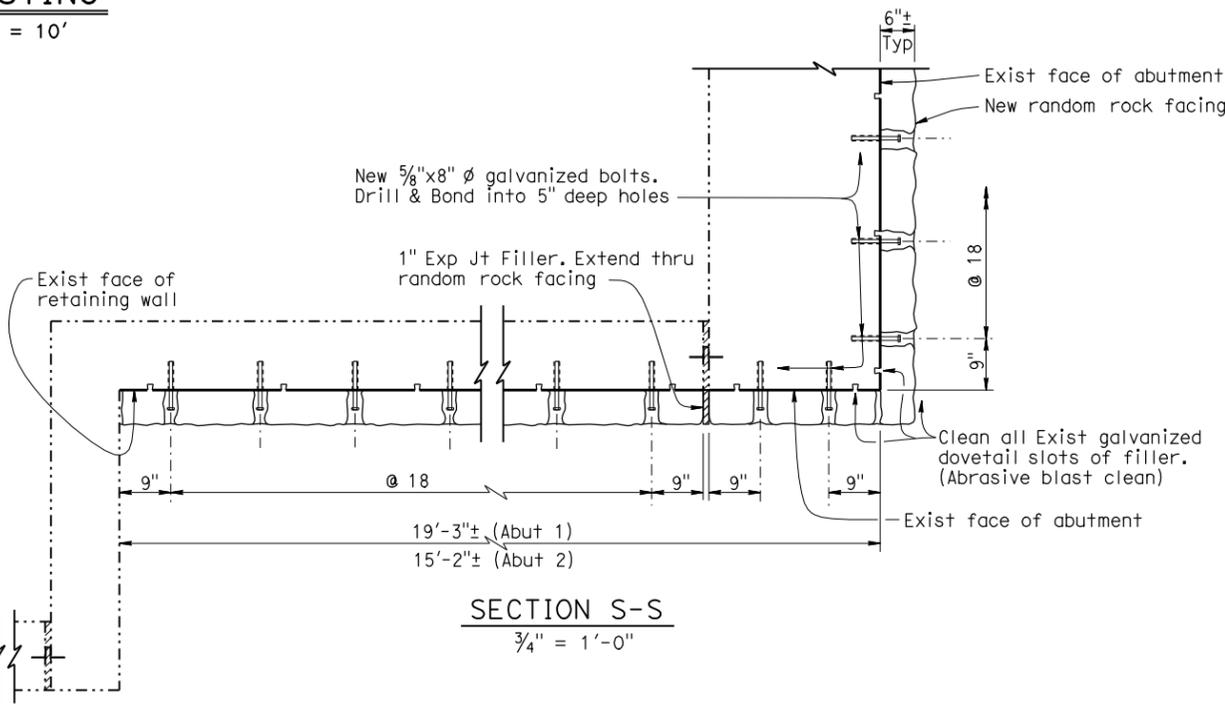


RECONSTRUCTION

SECTION U-U

Note:
 1/2" = 1'-0"
 - For void between Exist face of abutment and Exist slope paving, fill with Minor concrete. Similar to detail shown.

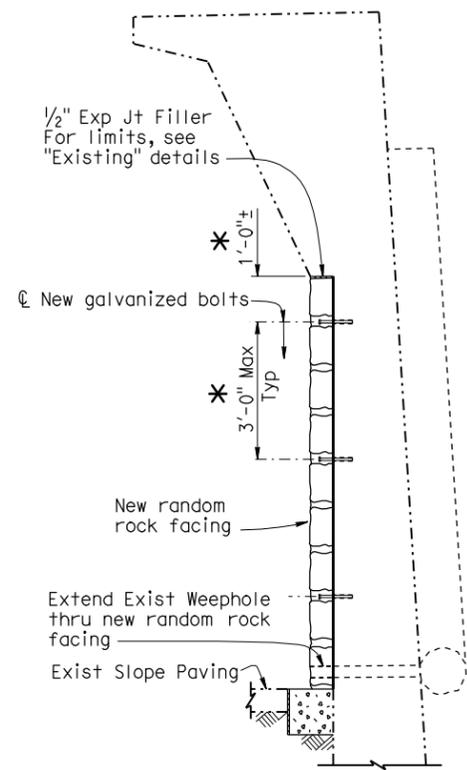
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION S-S

3/4" = 1'-0"

RECONSTRUCTION



SECTION T-T

1/2" = 1'-0"

Notes:
 - Details shown for Abutment 1, Abutment 2 similar.
 * - Dimension shown, to be used Exist face of abutment. Similar for retaining wall.

DESIGN	BY M. Hashimoto	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 20, 49, 89 BRIDGES	
DETAILS	BY Dale Kubochi	CHECKED Q. Vo			POST MILE			MISCELLANEOUS DETAILS NO. 1
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo			VARIES			

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 03
EA 3M6701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	3-2-10	9-23-10	11-5-10	11-8-10	11-12-10	12-9-10
----------------	--------	---------	---------	---------	----------	---------

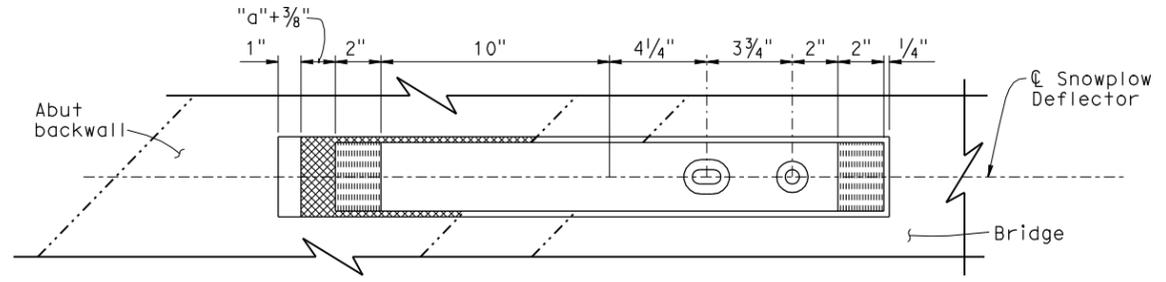
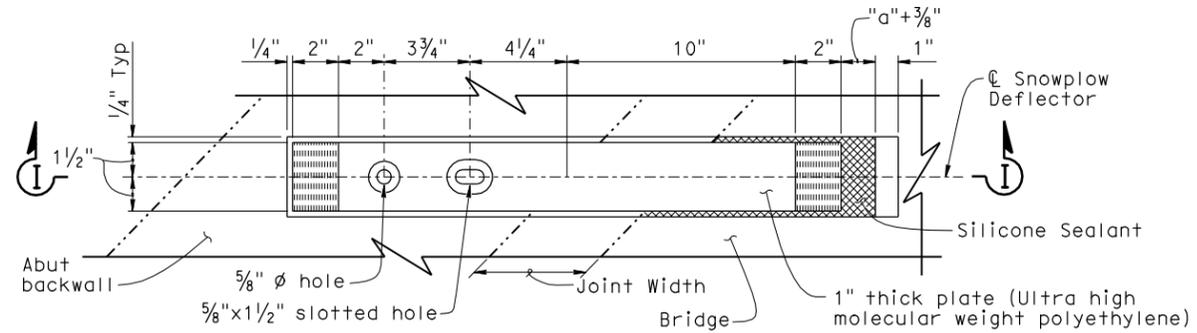
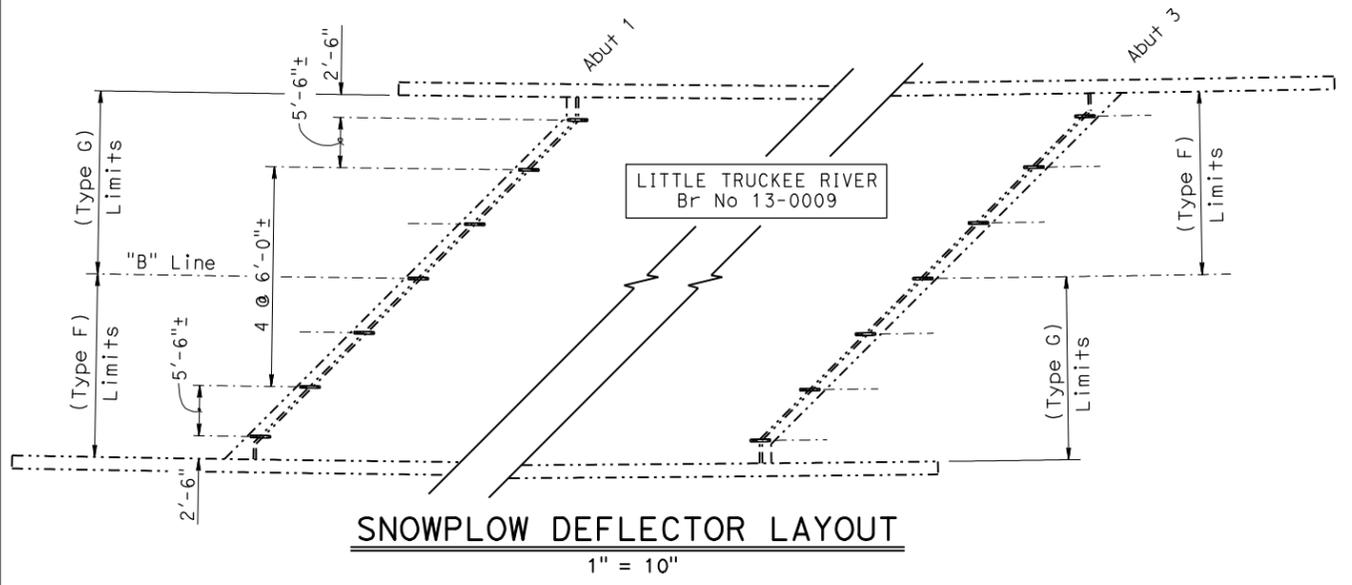
SHEET 5 OF 8

FILE => 03-3m6701-k-miscde+01.dgn

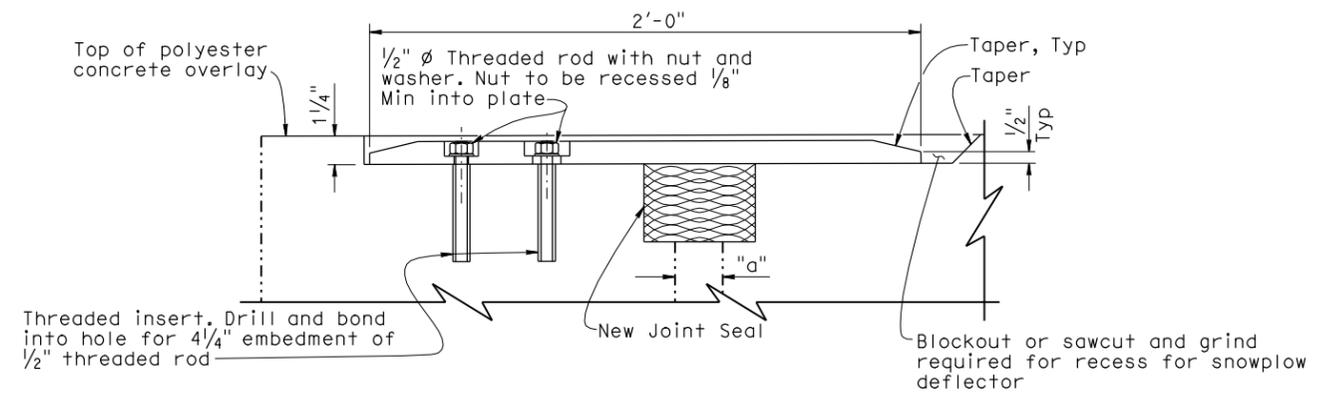
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	15	17
REGISTERED CIVIL ENGINEER			DATE	12-15-10	
PLANS APPROVAL DATE			2-28-11		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

NOTE: (APPLY TO THIS SHEET ONLY)

- Thread locking system to be used at all threaded rod and nut locations.



Note: For details not noted, see "PLAN (Type F)"

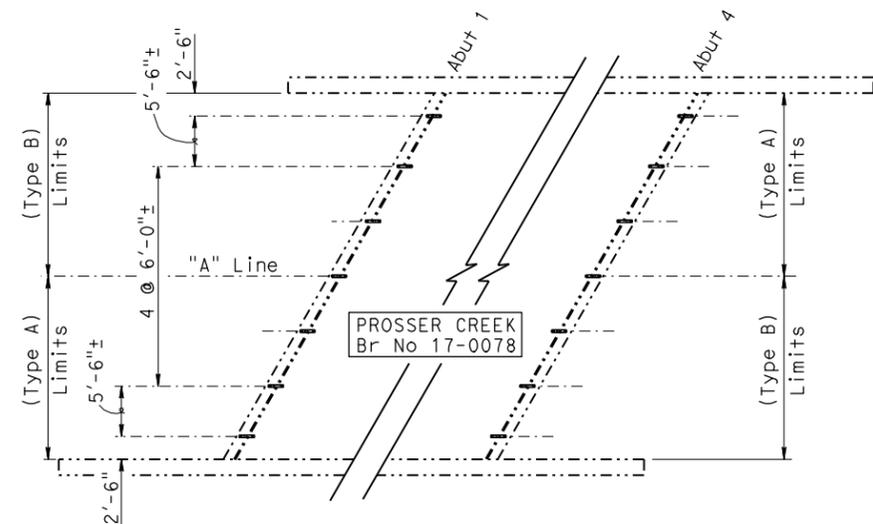


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Notes:
- Abutment 1 details shown, Abutment 3 details similar.

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)	DESIGN	BY M. Hashimoto	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 20, 49, 89 BRIDGES MISCELLANEOUS DETAILS NO. 2
	DETAILS	BY Dale Kubochi	CHECKED Q. Vo			POST MILE		
	QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo	CU 03 EA 3M6701	REVISION DATES	SHEET 6 OF 8		

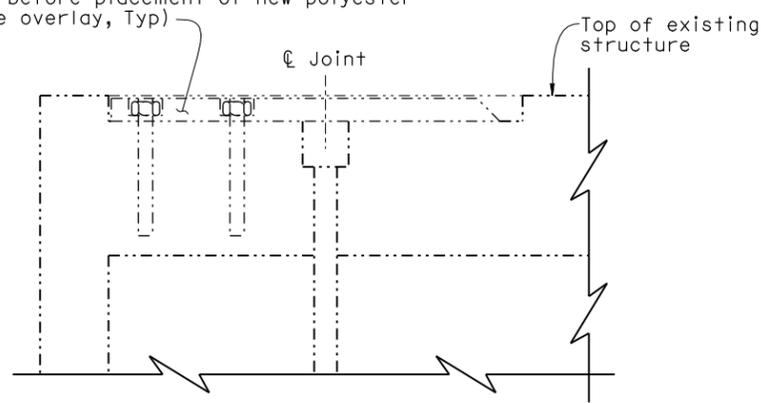
FILE => 03-3m6701-k-miscde+02.dgn



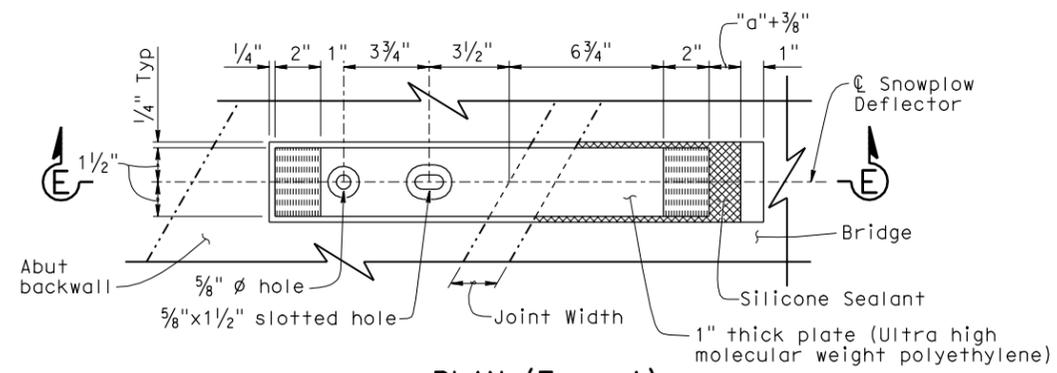
SNOWPLOW DEFLECTOR LAYOUT
1" = 10"

- Notes:
- Existing Steel Snowplow Deflector Units (Tot 22) and spacing not shown for clarity.
 - Abutment 1 details shown, Abutment 4 details similar.

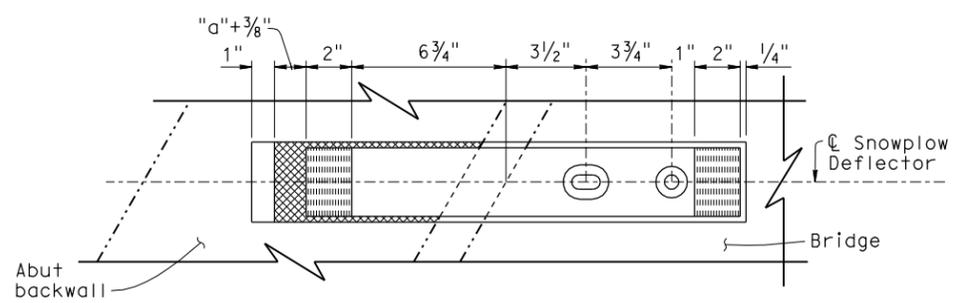
Remove existing Steel Snowplow Deflector Unit. (Bar with nuts and cut washers. Grind down $\frac{5}{8}$ " \pm ϕ concrete anchorage device flush with surface before placement of new polyester concrete overlay, Typ)



EXISTING PART SECTION
3" = 1'-0"

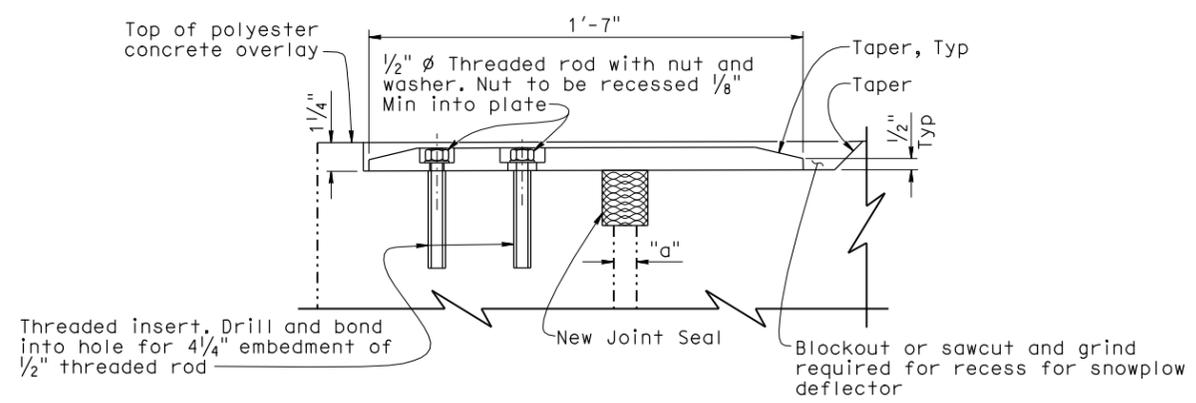


PLAN (Type A)



PLAN (Type B)

Note: For details not noted, see "PLAN (Type A)"



SECTION E-E

SNOWPLOW DEFLECTOR
3" = 1'-0"

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	16	17
REGISTERED CIVIL ENGINEER			DATE	12-15-10	
PLANS APPROVAL DATE			2-28-11		
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.					

NOTE: (APPLY TO THIS SHEET ONLY)

- Thread locking system to be used at all threaded rod and nut locations.

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)	DESIGN	BY M. Hashimoto	CHECKED Q. Vo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTES 20, 49, 89 BRIDGES
	DETAILS	BY Dale Kubochi	CHECKED Q. Vo			POST MILE		
	QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo	CU 03 EA 3M6701	REVISION DATES	SHEET 7	OF 8	

FILE => 03-3m6701-k-miscde+03.dgn

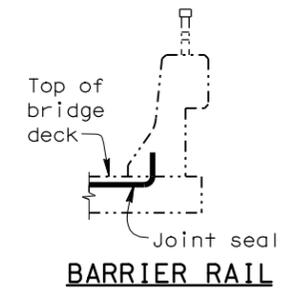
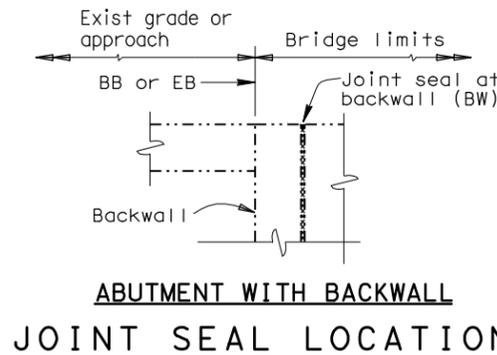
JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
LITTLE TRUCKEE RIVER	13-0009	ABUT 1	BW	1 1/2 *	55.0	YES	6	3	3	6
		ABUT 3	BW	1 1/2 *	56.0	YES	6	3	3	10
PROSSER CREEK	17-0078	ABUT 1	BW	1 *	47.0	NO	6	3	3	5
		ABUT 4	BW	1 *	47.0	NO	6	3	3	5

LEGEND:

- BW - Abutment backwall joint
- * - Use Type B Seal only

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
BRIGHTON STREET OVERCROSSING	17-0095	1	3
SOUTH YUBA RIVER	17-0007	1	3
LADIES CANYON CREEK	13-0006	1	3
LITTLE TRUCKEE RIVER	13-0009	1	3
PROSSER CREEK	17-0078	1	3



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.

The following notes apply to **JOINT SEAL TYPE B**:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) 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.
- 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) 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.
- 4) 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.
- 5) For details not shown, see RSP B6-21

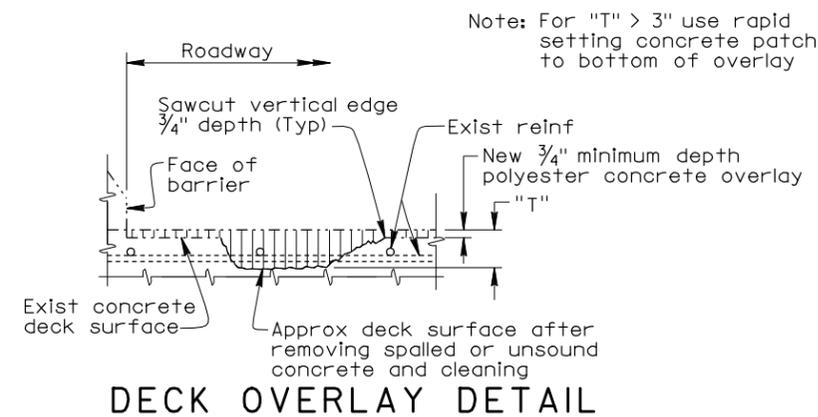
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sie, Nev	20,49,89	Var	17	17

12-15-10
REGISTERED CIVIL ENGINEER DATE

2-28-11
PLANS APPROVAL DATE

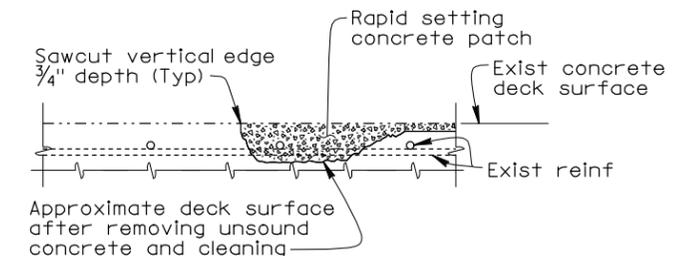
QUANG M. VO
No. C 055211
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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



Note: Reinforcement may be encountered during deck concrete removal.

NO SCALE



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

NO SCALE

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

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DESIGN</td> <td style="width: 20%;">BY M. Hashimoto</td> <td style="width: 20%;">CHECKED Q. Vo</td> </tr> <tr> <td>DETAILS</td> <td>BY Dale Kubochi</td> <td>CHECKED Q. Vo</td> </tr> <tr> <td>QUANTITIES</td> <td>BY M. Hashimoto</td> <td>CHECKED Q. Vo</td> </tr> </table>	DESIGN	BY M. Hashimoto	CHECKED Q. Vo	DETAILS	BY Dale Kubochi	CHECKED Q. Vo	QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo	<p>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>	<p>DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BRIDGE NO.</td> <td>VARIOUS</td> </tr> <tr> <td>POST MILE</td> <td>VARIES</td> </tr> </table>	BRIDGE NO.	VARIOUS	POST MILE	VARIES	<p>ROUTES 20, 49, 89 BRIDGES JOINT SEAL DETAILS</p>
DESIGN	BY M. Hashimoto	CHECKED Q. Vo															
DETAILS	BY Dale Kubochi	CHECKED Q. Vo															
QUANTITIES	BY M. Hashimoto	CHECKED Q. Vo															
BRIDGE NO.	VARIOUS																
POST MILE	VARIES																
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 5/17/06)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 03 EA 3M6701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES												
		0 1 2 3	6-28-09 1-23-10 11-12-10 12-9-10	SHEET 8 OF 8													