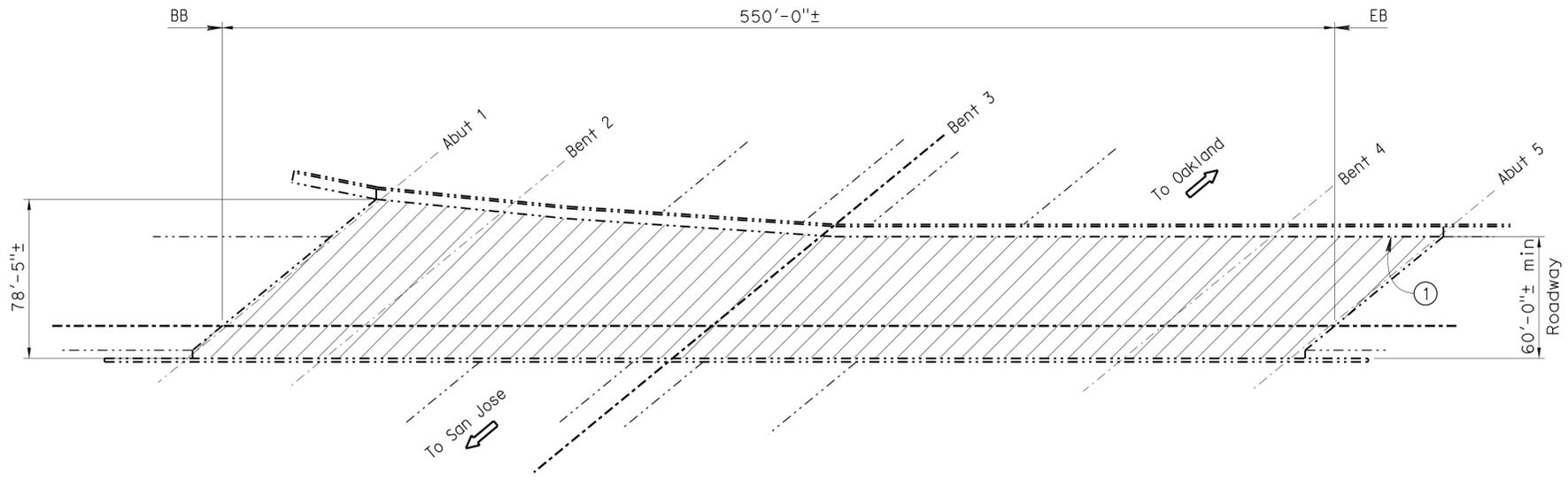


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	13,80, 880	Var	23	25

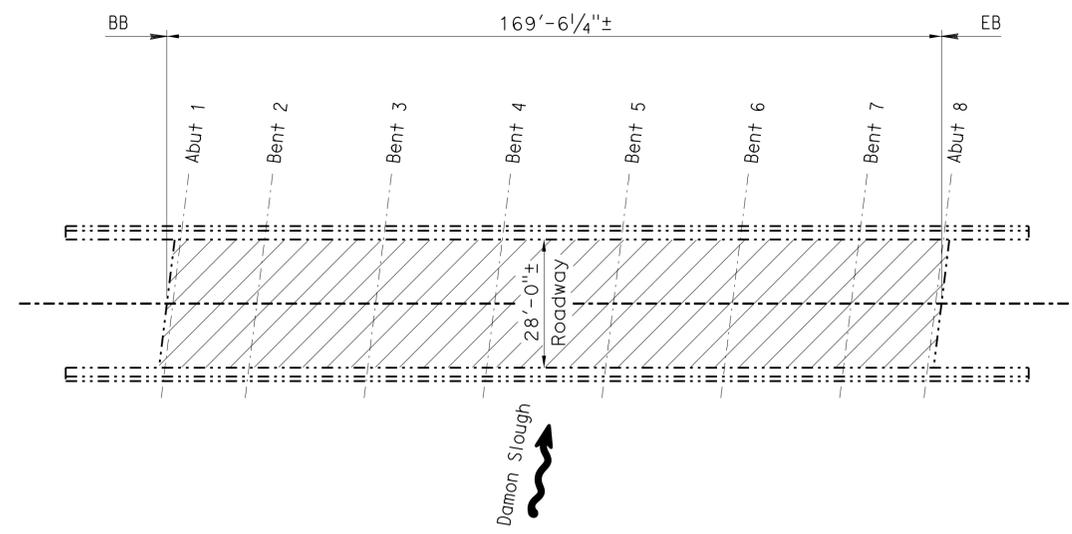
12-2-15  
 REGISTERED CIVIL ENGINEER DATE  
 2-16-16  
 PLANS APPROVAL DATE  
 BRIAN P. NGUYEN  
 No. C 68270  
 Exp. 9-30-17  
 CIVIL  
 STATE OF CALIFORNIA  
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### HEGENBERGER ROAD OVERCROSSING

Br No. 33-0088L, ALA, ROUTE 880, PM 25.5  
 1" = 40'

- LEGEND: (APPLY TO THIS SHEET ONLY)**
- Indicates limits of remove unsound concrete, place rapid setting concrete patch, prepare concrete bridge deck surface and treat bridge deck with high molecular weight methacrylate.
  - ① Paint Bridge No. "HEGENBERGER ROAD OC BR NO. 33 0088L PM 25.5 1996" on concrete barrier.



### DAMON SLOUGH (SB ON RAMP)

Br No. 33-0142K, ALA, ROUTE 880, PM 26.53  
 1" = 20'

HEGENBERGER ROAD OVERCROSSING BRIDGE NO 33-0088L

**QUANTITIES**

PAINTE BRIDGE IDENTIFICATION	1	EA
RAPID SETTING CONCRETE (PATCH)	89	CF
REMOVE UNSOUND CONCRETE	89	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	35,544	SQFT
TREAT BRIDGE DECK	35,544	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	395	GAL

DAMON SLOUGH (SB ON RAMP) BRIDGE NO 33-0142K

**QUANTITIES**

RAPID SETTING CONCRETE (PATCH)	12	CF
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,746	SQFT
TREAT BRIDGE DECK	4,746	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	53	GAL

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**REPLACED PER ADDENDUM No. 1 DATED APRIL 19, 2016**

9-24-15 *Michael J. Lee*  
 DESIGN ENGINEER

DESIGN	BY B. Nguyen	CHECKED T. Powell
DETAILS	BY M. Hallstrom	CHECKED T. Powell
QUANTITIES	BY B. Nguyen	CHECKED T. Powell

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT	BY M. Hallstrom CHECKED T. Powell
SPECIFICATIONS	BY E. Mansoubi PLANS AND SPECS COMPARED X

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 13, 80 & 880 BRIDGES**  
**GENERAL PLAN NO. 6**

USERNAME => s130888 DATE PLOTTED => 18-APR-2016 TIME PLOTTED => 09:01

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	13,80, 880	Var	25	25

12-2-15  
REGISTERED CIVIL ENGINEER DATE

2-16-16  
PLANS APPROVAL DATE

BRIAN P. NGUYEN  
No. C 68270  
Exp. 9-30-17  
CIVIL  
STATE OF CALIFORNIA

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JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
REDWOOD ROAD OVERCROSSING	33-0147	Abut 1	BB	1	112	No	12.0
		Abut 5	EB	1	164	No	12.0
ROUTE 13/80 SEPARATION	33-0191G	Abut 1	BB	1	36	No	12.0
		Abut 8	EB	1	30	No	12.0
TEMESCAL CREEK	33-0278	Abut 1	BB	1/2	71	No	12.0
		Abut 2	EB	1/2	71	No	12.0
GILLMAN STREET UNDERCROSSING	33-0127	Abut 1	BB	1*	150	No	12.0
		Abut 6	EB	1*	160	No	12.0
SAN LEANDRO BOH	33-0100	Longitudinal Joint		-	1369	No	8.0

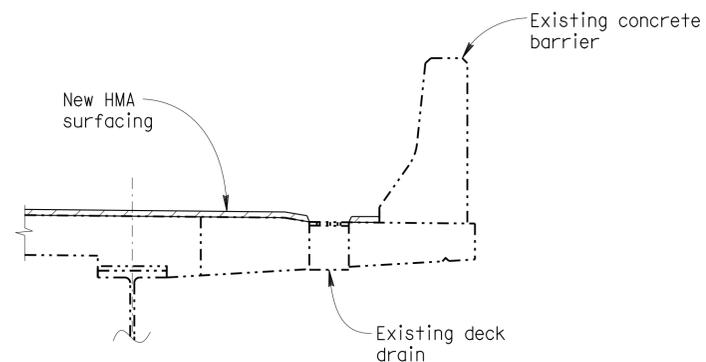
LEGEND:  
\* = Type B seal required

The following note applies to JOINT SEAL TYPE A:  
Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see (B6-21)

- 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 (B6-21)

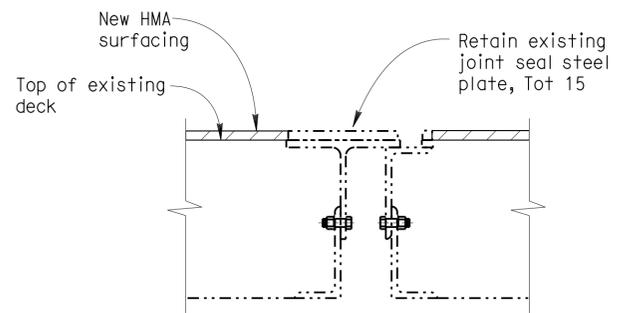
DECK REPAIR TABLE			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
ROUTE 13/80 SEPARATION	33-0191G	2	3
W80-S13 CONNECTOR OVERCROSSING	33-0190F	1	3
UNIVERSITY AVE OVERCROSSING	33-0023	5	3
80/580 EL CERRITO SEPARATION OH	33-0051R	1	3
SAN LEANDRO BOH	33-0100	1	3
HEGENBURGER ROAD OVERCROSSING	33-0088L	1	3
DAMON SLOUGH (SB ON RAMP)	33-0142K	1	3
DAMON SLOUGH (NB ON RAMP)	33-0142S	1	3
MADISON STREET UNDERCROSSING	33-0198	1	3

Locations to be determined by the Engineer.



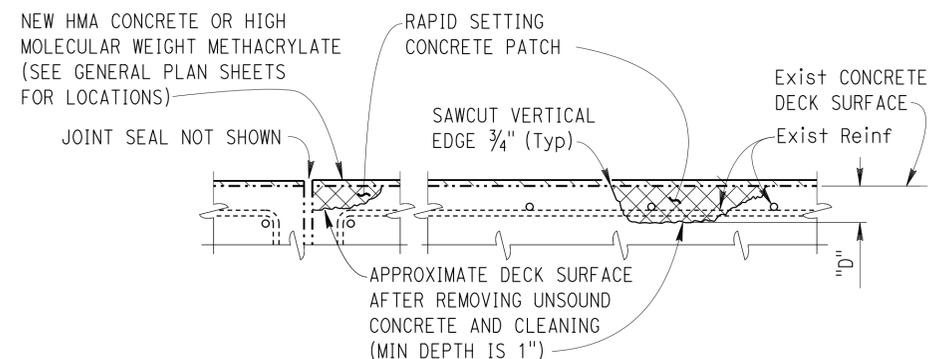
**PART TYPICAL SECTION**

NO SCALE  
BR NO. 33-0100



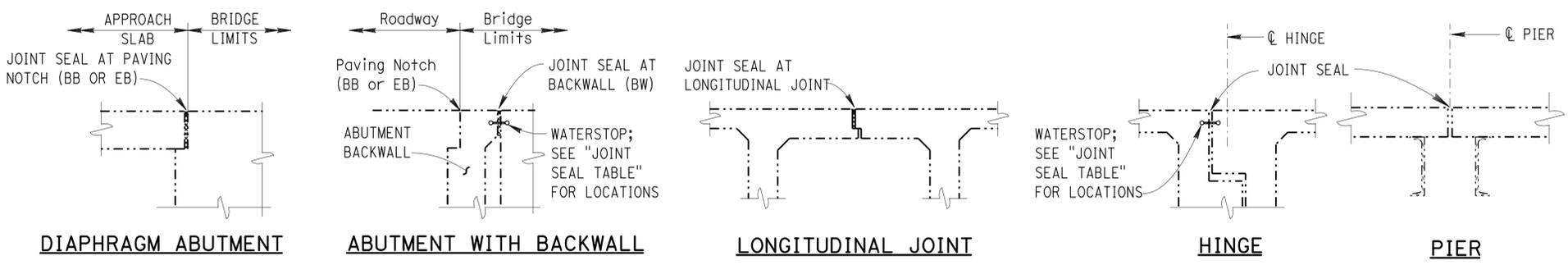
**JOINT SEAL ASSEMBLY**

NO SCALE  
BR NO. 33-0100



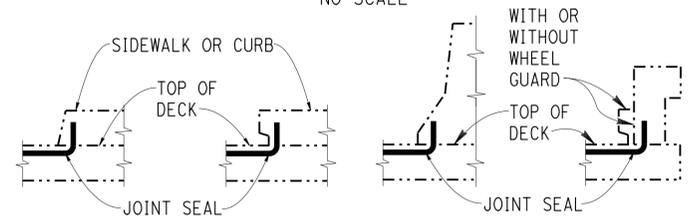
**JOINT AND DECK REPAIR DETAIL**

LOCATIONS TO BE DETERMINED BY THE ENGINEER.  
REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.  
NO SCALE



**JOINT SEAL LOCATION**

NO SCALE



**JOINT SEAL AT LOW SIDE OF DECK**

DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR USE ONLY WHERE DECK JOINT MATCHES THE BARRIER RAIL JOINT.  
NO SCALE

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**1** REPLACED PER ADDENDUM No. 1 DATED APRIL 19, 2016

DESIGN	BY B. Nguyen	CHECKED T. Powell
DETAILS	BY M. HALLSTROM	CHECKED T. Powell
QUANTITIES	BY B. Nguyen	CHECKED T. Powell

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS	<b>ROUTE 13, 80 &amp; 880 BRIDGES</b>
POST MILE	VARIES	
<b>JOINT SEAL DETAILS AND DECK REPAIR DETAILS</b>		