

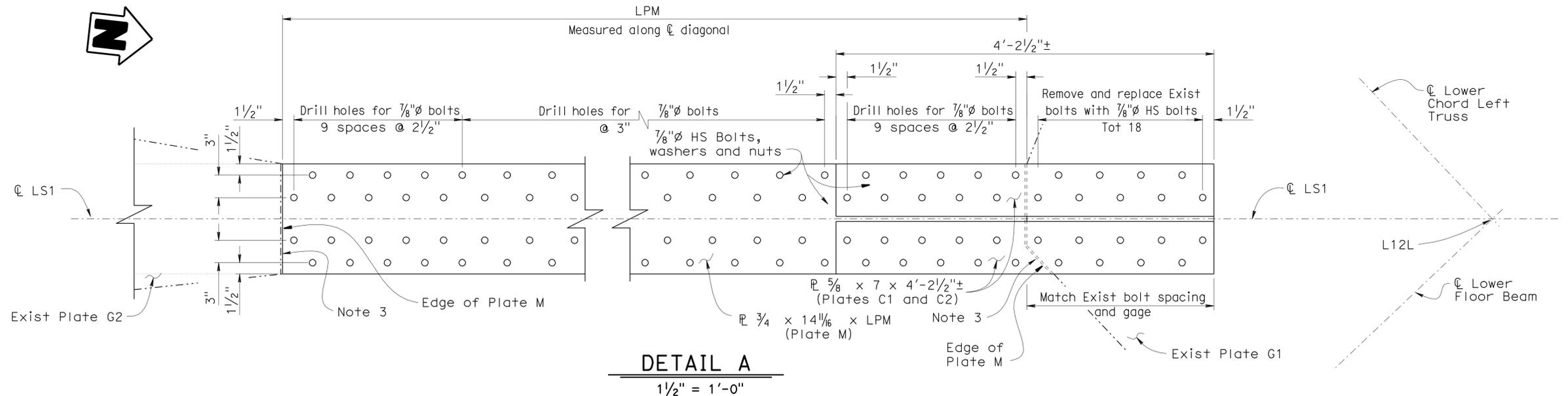
CONSTRUCTION SEQUENCE FOR RETROFIT OF LOWER LATERAL SYSTEM

TABLE 1

LENGTH OF PLATE M	℄ LS1	℄ LS2
LPM	18'-4"±	20'-4"±

Note 3:
 Ends of Plate M shall be cut to match the shape of existing plates G1 and G2 with maximum 1/4" gap.

1. Drill 7/8" ∅ holes on top and bottom flanges of retrofit members with in the limits of Plate M.
2. Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge) and Clean and Paint Structural Steel appropriate surfaces for installation of Plate M on top and bottom.
3. Install Plate M on top and bottom flanges with 7/8" ∅ HS bolts, washers and nuts. Leave end of Plate M unbolted for assembling with Plates C1 and C2.
4. Remove existing bolts from existing Plate G1 that lies under Plate C1 @ top flange. Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge) and Clean and Paint Structural Steel the appropriate surfaces.
5. Install Plate C1 on top existing Plate G1 with 7/8" ∅ HS bolts, washers and nuts. Install the remaining bolts to assemble Plates M and C1 on top flange.
6. Repeat steps 3 and 4 for Plates C2 and M on bottom flange.
7. Repeat steps 3 and 4 for Plates C2 and M on top flange.
8. Repeat steps 3 and 4 for Plates C1 and M on bottom flange.
9. Steps 1 through 8 for each location must be completed before moving to next location. Only one joint location at a time shall be retrofitted for the entire truss.



DETAIL A

1/2" = 1'-0"

Location L12L shown, other locations similar.

LEGEND:
 ----- Indicates existing
 ○ Indicates HS Bolts, washers and nuts

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

1 REVISED PER ADDENDUM No. 1 DATED NOVEMBER 16, 2012

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
TRUSS RETROFIT
DIAGONAL DETAILS No. 2

DESIGN	BY Jun Ki Jung	CHECKED Eduardo Ortega Jr.
DETAILS	BY Gerald Dickerson	CHECKED Eduardo Ortega Jr.
QUANTITIES	BY Jun Ki Jung	CHECKED Sujun Talukder

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 7

BRIDGE NO.	12-0134
POST MILE	28.2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 03227 UNIT: 3592
 EA 1E5101 PROJECT: 03 0000 0266

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

SHEET 8 OF 60

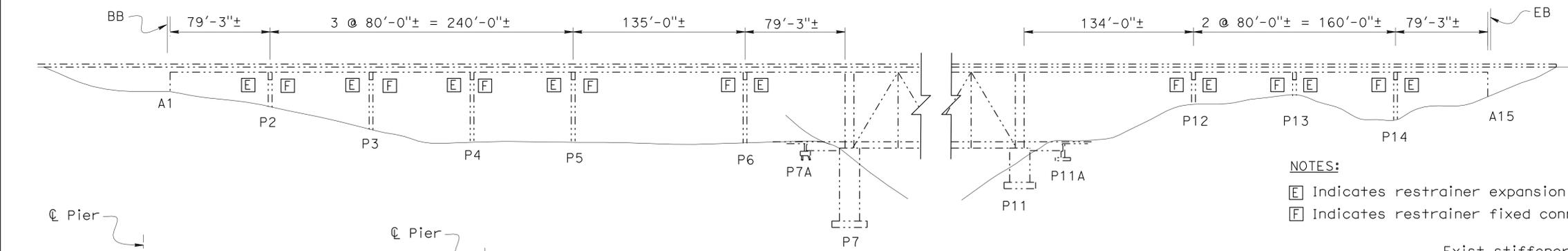
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Bu+	70	28.0/29.2	66	95

David Soon 1-6-12
REGISTERED CIVIL ENGINEER DATE

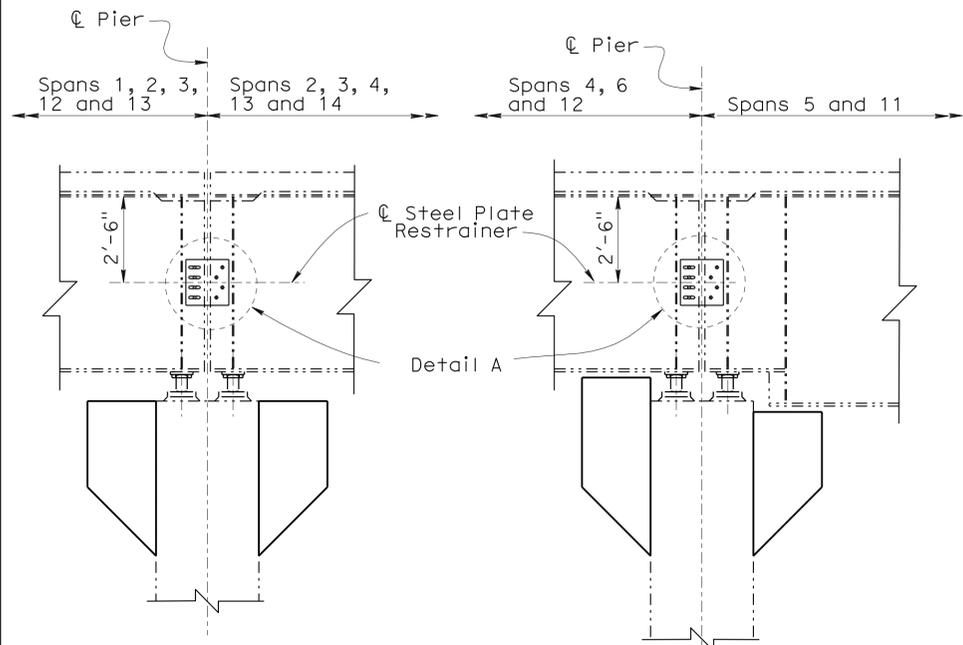
5-21-12
PLANS APPROVAL DATE

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
David Soon
No. 51862
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA



STEEL PLATE RESTRAINER LAYOUT
1" = 50'



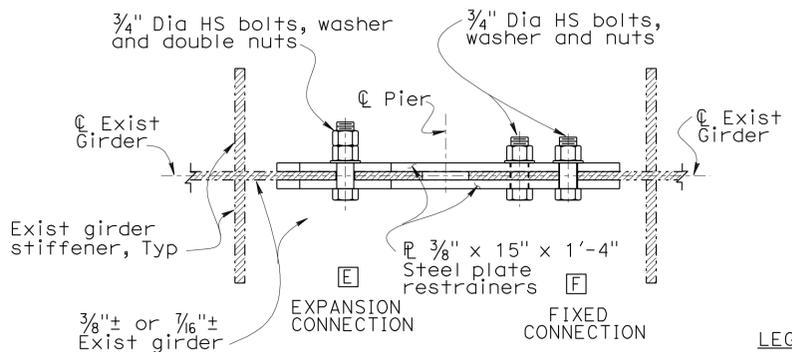
Pier 2 shown, Pier 3, 4, 13 and 14 similar
Pier 5 shown, Pier 6 and 12 similar

STEEL PLATE RESTRAINER DETAIL
3/8" = 1'-0"

- NOTES:**
1. Install steel plate restrainers at Pier 2, 3, 4, 5, 6, 12, 13 and 14.
 2. Install steel plate restrainers at all girders.
 3. Steel plate restrainers and shim plates are A.S.T.M. A36 structural Carbon Steel (C.S.)
 4. Bolt heads shall be shown from outside of exterior girders.
 5. If existing girders do not line up to place steel plate restrainers, shim plates shall be used and tack-welded on existing girders, see "DETAIL A WITH SHIM PLATES". Dimension "T1", "T2", "T3" and "T4" shall be determined by the Engineer-Contractor and approved by the Engineer. Approximately 50 percent of the existing girders will require shim plates.
 6. For limits of Spot Blast Clean and Paint Undercoat and Paint Structural Steel (Existing Bridge), see "LIMITS OF CLEAN AND PAINT UNDERCOAT AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)" detail on "INDEX TO PLANS" sheet.

NOTE:
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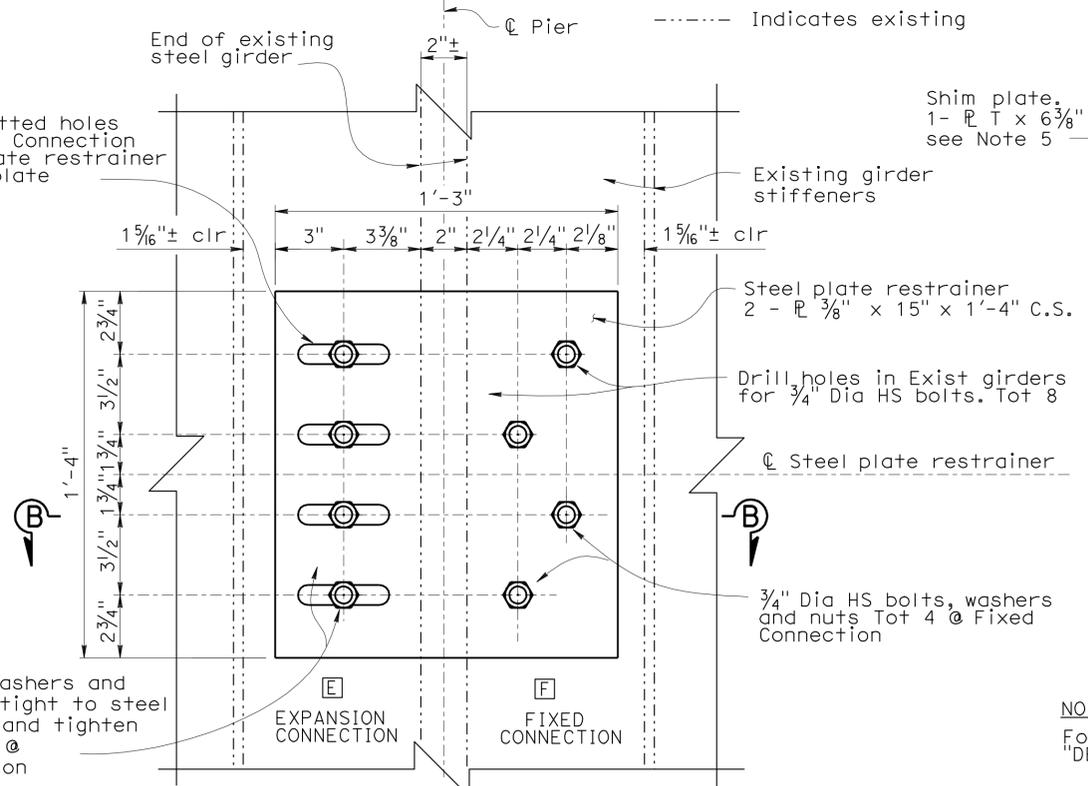
REVISION
1 REVISED PER ADDENDUM No. 1 DATED NOVEMBER 16, 2012



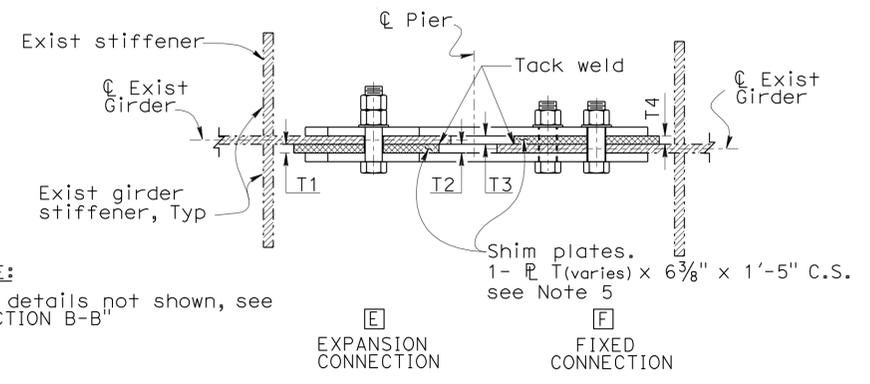
SECTION B-B
3" = 1'-0"

- LEGEND:**
- Indicates existing structure
 - Indicates shim plates
 - Indicates existing

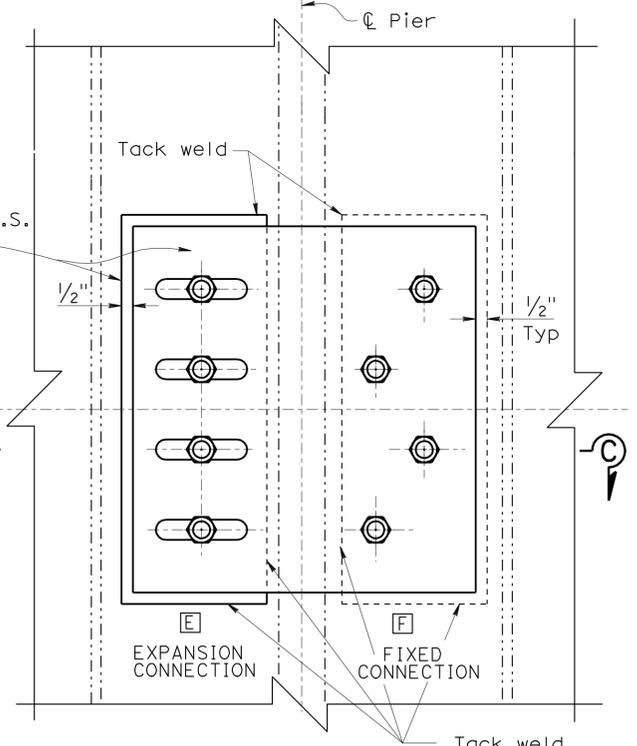
7/8" x 4" slotted holes @ Expansion Connection of steel plate restrainer Tot 4 per plate



DETAIL A
3" = 1'-0"



SECTION C-C
3" = 1'-0"



DETAIL A WITH SHIM PLATES
3" = 1'-0"

NOTE:
For details not shown, see "DETAIL A"

SEISMIC RETROFIT
WEST BRANCH FEATHER RIVER BRIDGE
APPROACH RETROFIT
STEEL PLATE RESTRAINER DETAILS

DESIGN	BY David Soon	CHECKED Jun Ki Jung	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	12-0134
DETAILS	BY Bruno Jenko	CHECKED Jun Ki Jung			POST MILE	28.2
QUANTITIES	BY Jun Ki Jung	CHECKED Sujon Talukder				