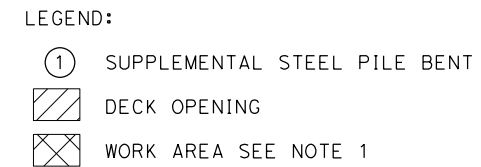
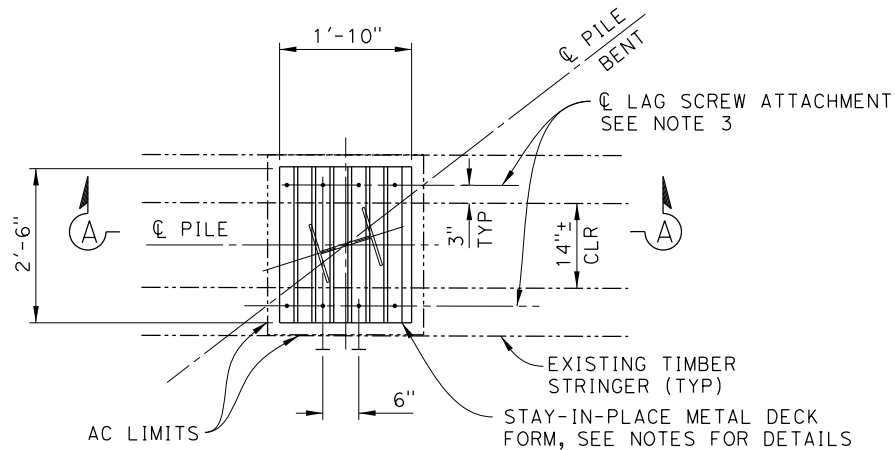


THE SUPPLEMENTAL PILE BENTS ARE DESIGNED TO SUPPORT
THE FOLLOWING INVENTORY LOADS:

INDEX TO PLANS	
SHEET	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	BENT LAYOUT
4	DETAILS NO. 1
5	DETAILS NO. 2
6	DETAILS NO. 3
7	DETAILS NO. 4

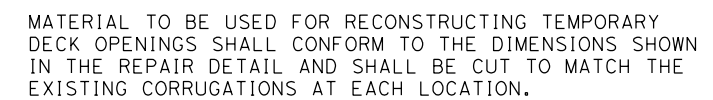
1. Construction equipment loads shall be restricted to areas of the bridge deck East of Bent 11 and West of Bent 15. see "FOUNDATION PLAN" sheet for Live Load capacity of existing timber piles.
2. See "FOUNDATION PLAN" sheet for material specifications for stay-in-place metal decking.
3. Lag screws shall be placed in every corrugation that is in contact with the existing timber stringers.
4. Construction means and methods for the work is the responsibility of the Contractor as approved by the Engineer.



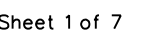
$$1'' = 10'$$


TYPICAL ALL PILES

REPAIR



AS-BUILT
R.E./S.R.: K. TRAN
DATE: 4-28-2015



TIME PLOTTED => 12:00:38 PM

```

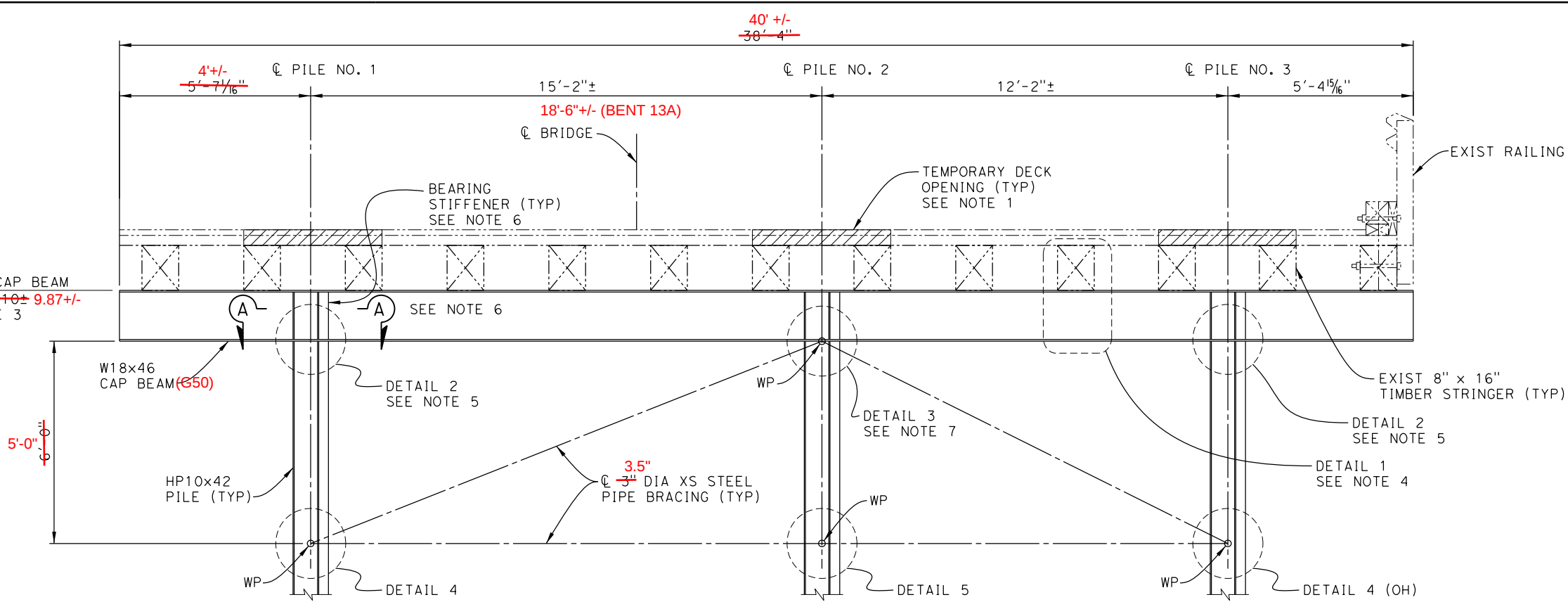
USERNAME => quinnovaDATE PLOTTED => 3/25/2015

```

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

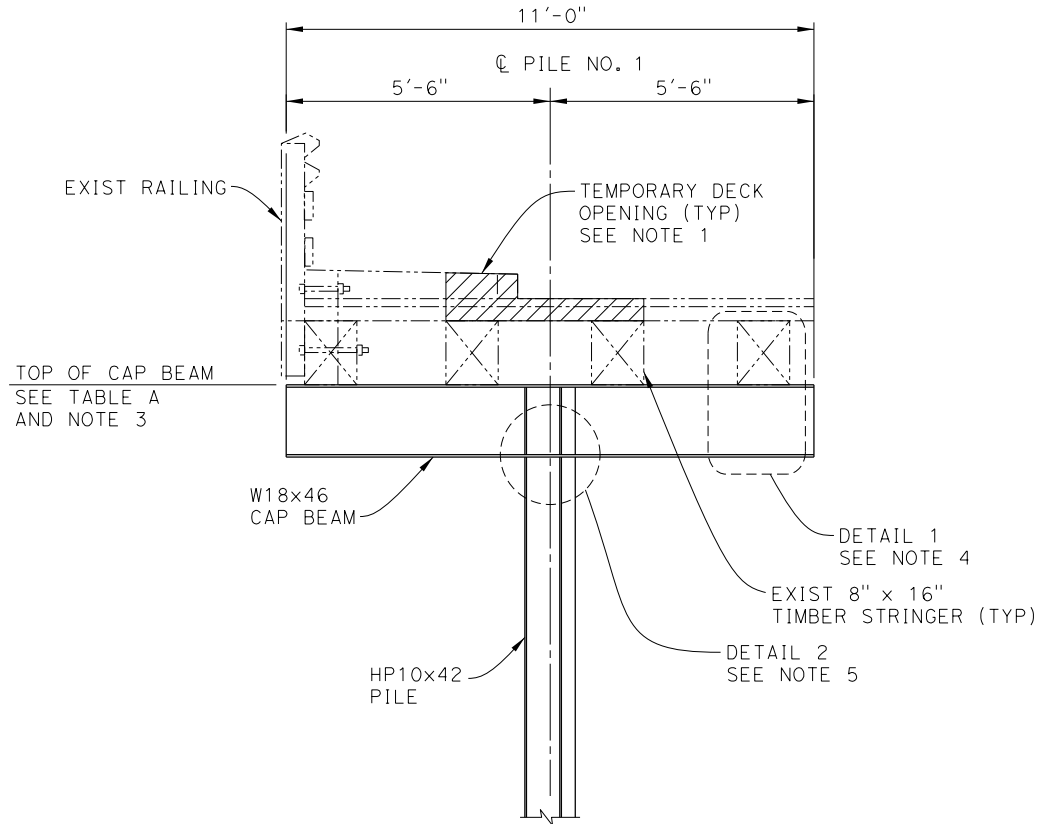
USERNAME => quinnov Date PLOTTED => 3/27/2015 TIME PLOTTED => 2:01:32 PM

TOP OF CAP BEAM
ELEV ~~13.10~~ **9.87+/-**
SEE NOTE 3



BENT 13A & 13B LAYOUT
1/2" = 1'-0" SEE NOTE 2

TABLE A	
TOP OF CAP BEAM ELEVATIONS	
BENT	ELEVATION (FT)
12A	12.93 9.63+/-
12B	12.93 9.63+/-
14A	13.26 9.69+/-
14B	13.26 9.69+/-



BENT 12A SHOWN, BENT 12B, BENT 14A & 14B SIMILAR
SINGLE PILE LAYOUT
1/2" = 1'-0" SEE NOTE 2

- NOTES:
1. See "GENERAL PLAN" sheet for temporary deck opening details.
 2. Pile bent layouts are shown normal to cap beams. Piles are skewed 20° in the views shown.
 3. Elevation to top of cap beam is shown 1" below the lowest existing timber stringer soffit at the centerline of timber bent as determined by bridge deck survey dated 2010, and existing structure dimensions shown on as-built plans.
 4. See "DETAILS NO.1" sheet for cap beam connections to existing timber stringers.
 5. See "DETAILS NO. 1" sheet for Detail 2.
 6. See Bearing Stiffener Placement Detail on "DETAILS NO. 1" sheet for bearing stiffener installation details.
 7. See "DETAILS NO. 2" sheet for Detail 3.

AS-BUILT
R.E./S.R.: K. TRAN
DATE: 4-28-2015



APPR.	DATE	DESCRIPTION	MARK

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

TODD W. DUDLEY
Professional Engineer
No. C-39514
Exp. 12/31/15
State of California

3/20/15
DATE

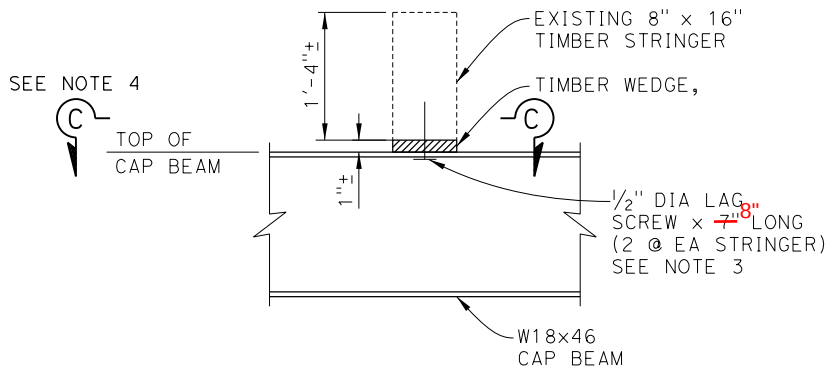
TODD W. DUDLEY

DESIGNED BY: I. DUDLEY	CHECKED BY: D. YEE	DRAWING CODE:	FILE NAME:	PLOT DATE:	SCALE: AS SHOWN
COUNTY OF ORANGE OC PUBLIC WORKS	J. QUINOVEVA				
PREPARED BY: AECOM 999 W. Town & Country Road Orange, CA 92668 (714) 567-2501					

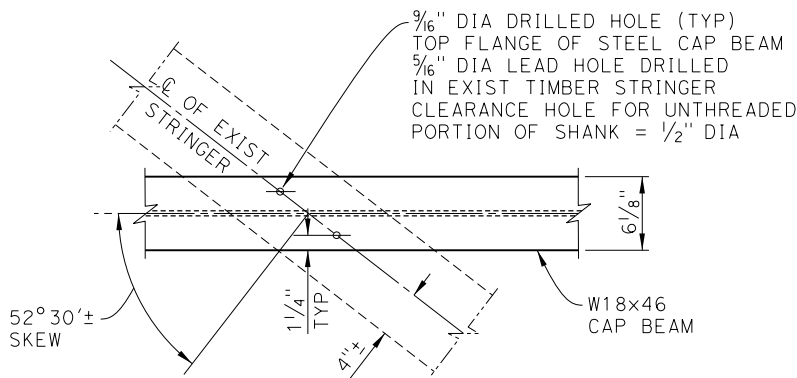
**EDINGER AVENUE BRIDGE AT
BOLSA CHICA CHANNEL
REHABILITATION
BR. NO. 55C-0400**

**BENT
LAYOUT**

USERNAME => quino9eva DATE PLOTTED => 3/25/2015 TIME PLOTTED => 12:04:53 PM



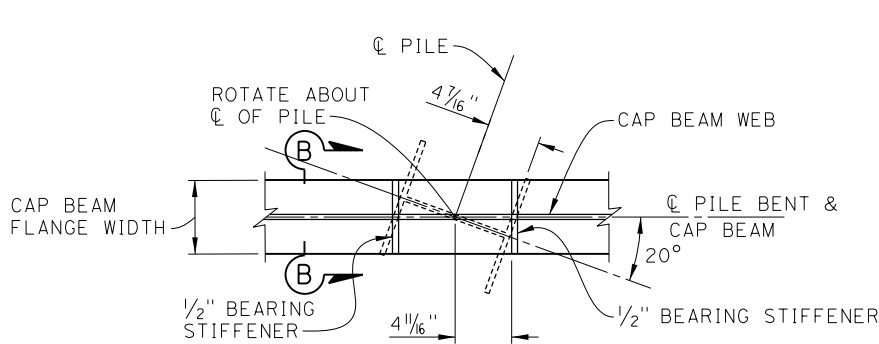
DETAIL 1
1" = 1'-0"



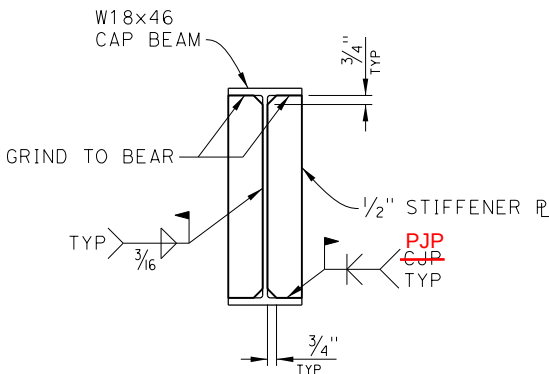
VIEW C-C
1 1/2" = 1'-0"

CONNECTION TO EXISTING TIMBER STRINGERS

TYPICAL, ALL TIMBER STRINGER LOCATIONS
SEE NOTE 2

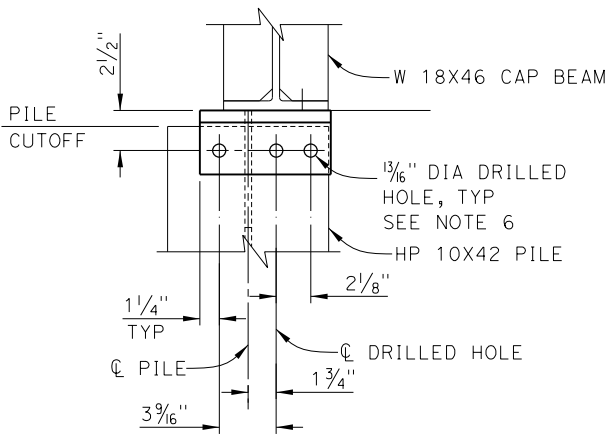


SECTION A-A
1 1/2" = 1'-0"

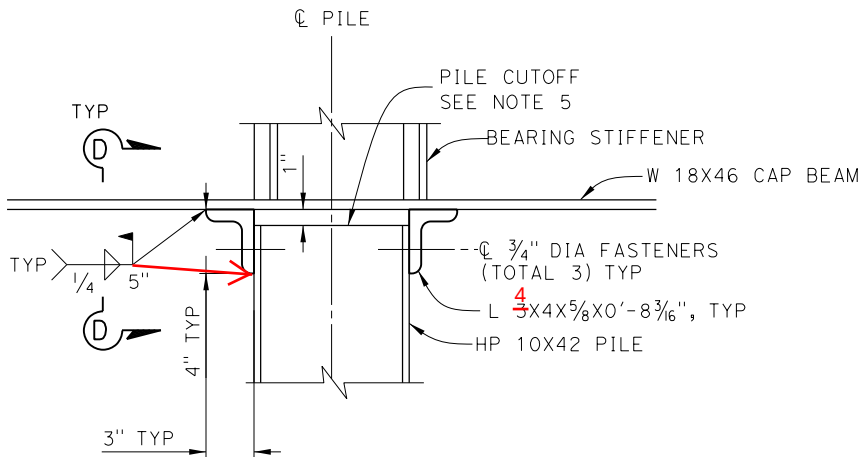


SECTION B-B
1 1/2" = 1'-0"

BEARING STIFFENER PLACEMENT



SECTION D-D
2" = 1'-0"



DETAIL 2
2" = 1'-0"

DETAIL SHOWN NORMAL TO PILE WEB

NOTES:

1. See "GENERAL PLAN" sheet for details of temporary deck openings.
2. After completing cap beam attachment to all piles in each bent, use timber wedges to make a tight connection between cap beam and all existing timber stringers. Once all stringers are wedged tight, install lag screws as shown in Detail 1 and VIEW C-C.
3. Lag screws shall be installed snug tight.
See General Notes on "FOUNDATION PLAN" sheet.
4. See "BENT LAYOUT" sheet for top of cap beam elevations.
5. See Pile Data Table on "FOUNDATION PLAN" sheet for pile cutoff elevations.
6. Contractor shall field drill holes in pile flanges after pile driving and pile cutoff have been completed.

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



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
TODD W. DUDLEY
No. C-39514
Exp. 12/31/15
CIVIL
STATE OF CALIFORNIA

3/20/15
DATE

TODD W. DUDLEY

DESIGNED BY: I. DUDLEY
DRAWN BY: J. QUINOVEVA
CHECKED BY: D. YEE

COUNTY OF ORANGE
OC PUBLIC WORKS

PREPARED BY:
AECOM
999 W. Town & Country Road
Orange, CA 92668
(714) 567-2501

DRAWING CODE:
FILE NAME:
PLOT DATE:
SCALE: AS SHOWN

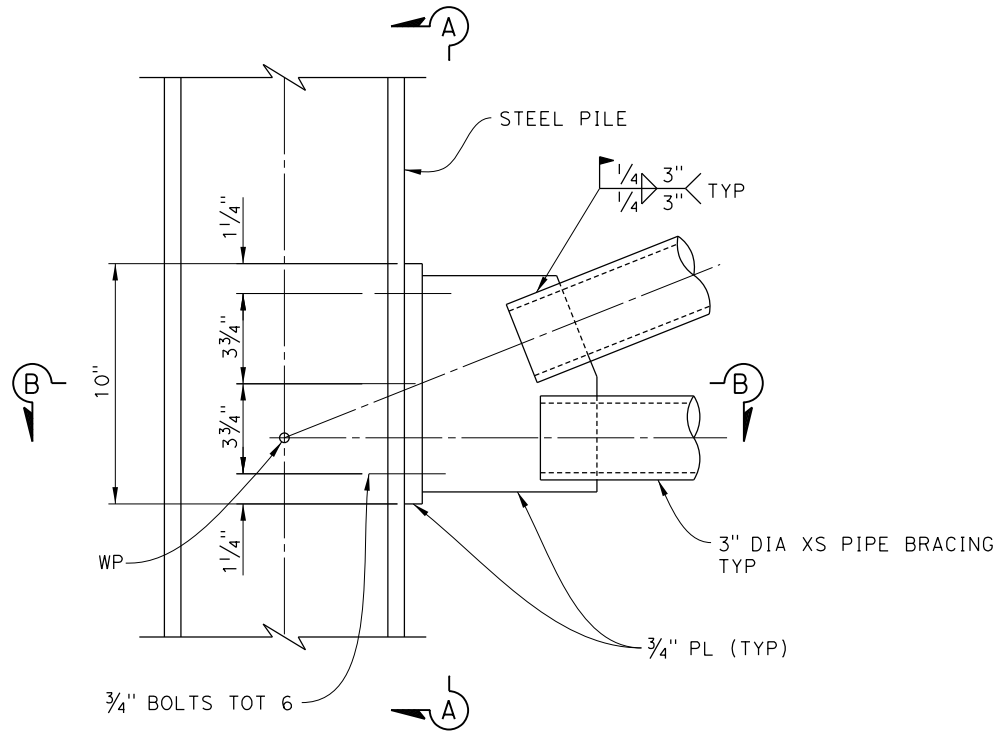
EDINGER AVENUE BRIDGE AT
BOLSA CHICA CHANNEL
REHABILITATION
BR. NO. 55C-0400

DETAILS
NO. 1

Sheet
Reference
Number

AS-BUILT
R.E./S.R.: K. TRAN
DATE: 4-28-2015

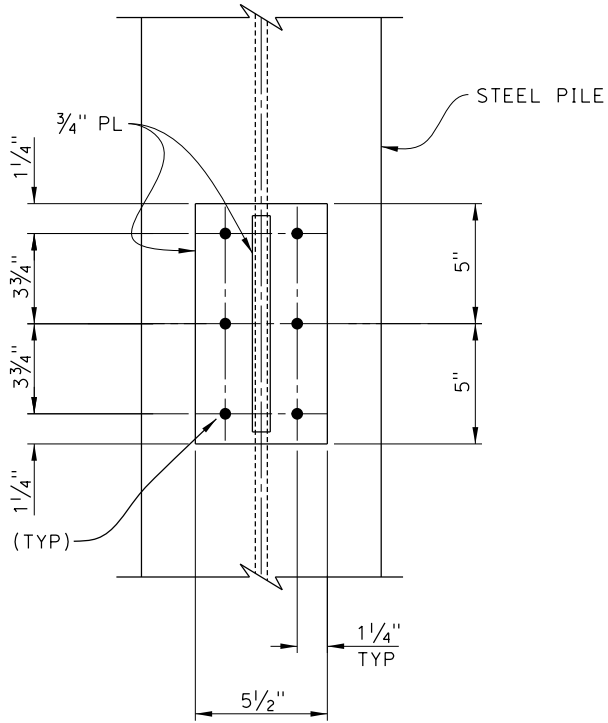
Sheet 4 of 7



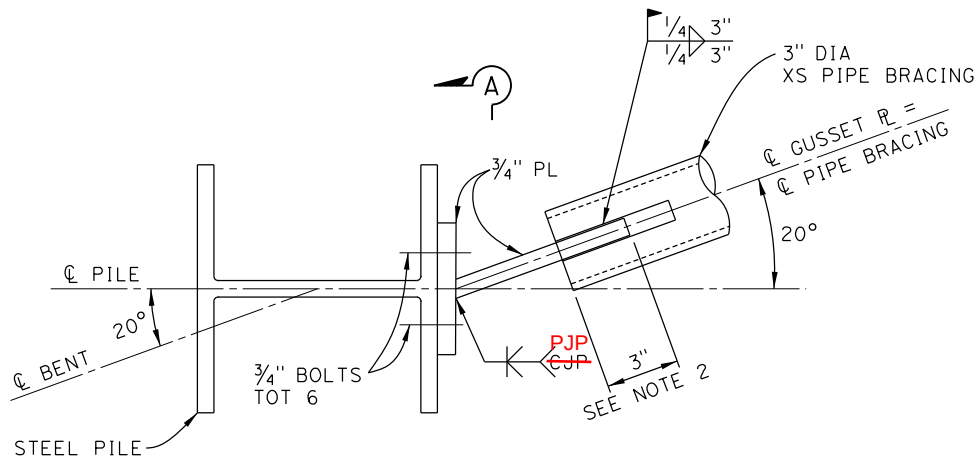
DETAIL 4
 3" = 1'-0"

DETAIL IS SHOWN
 NORMAL TO PILE WEB

13/16" DIA
 DRILLED HOLE
 SEE NOTE 1



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



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

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

NOTES:

- Contractor shall field drill holes in pile flanges after pile driving and pile cutoff have been completed.
- Minimum length of weld is measured along pipe bracing.

AS-BUILT
 R.E./S.R.: K. TRAN
 DATE: 4-28-2015



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

TODD W. DUDLEY
 No. C-39514
 CIVIL
 State of California

3/20/15
 DATE

TODD W. DUDLEY

DESIGNED BY: I. DUDLEY	CHECKED BY: D. YEE
DRAWN BY: J. QUINOZVEVA	DRAWING CODE:
FILE NAME:	SCALE: AS SHOWN
PLOT DATE:	

COUNTY OF ORANGE
 OC PUBLIC WORKS

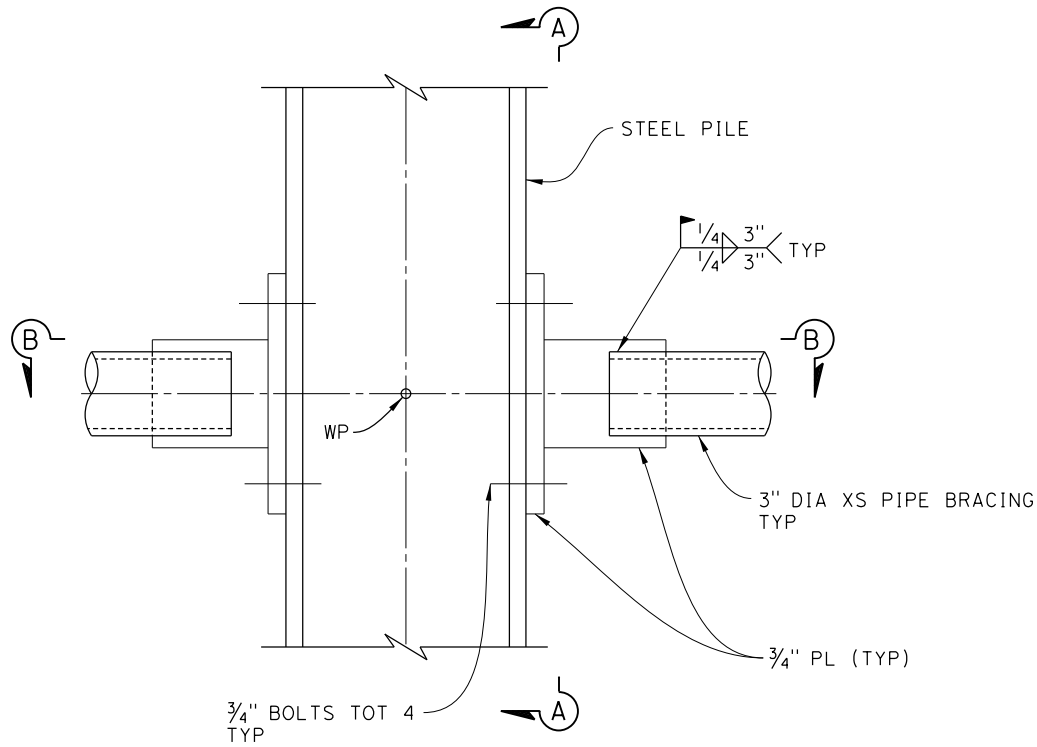
PREPARED BY:
 AECOM
 999 W. Town & Country Road
 Orange, CA 92668
 (714) 567-2501

EDINGER AVENUE BRIDGE AT
 BOLSA CHICA CHANNEL
 REHABILITATION
 BR. NO. 55C-0400

DETAILS
 NO. 3

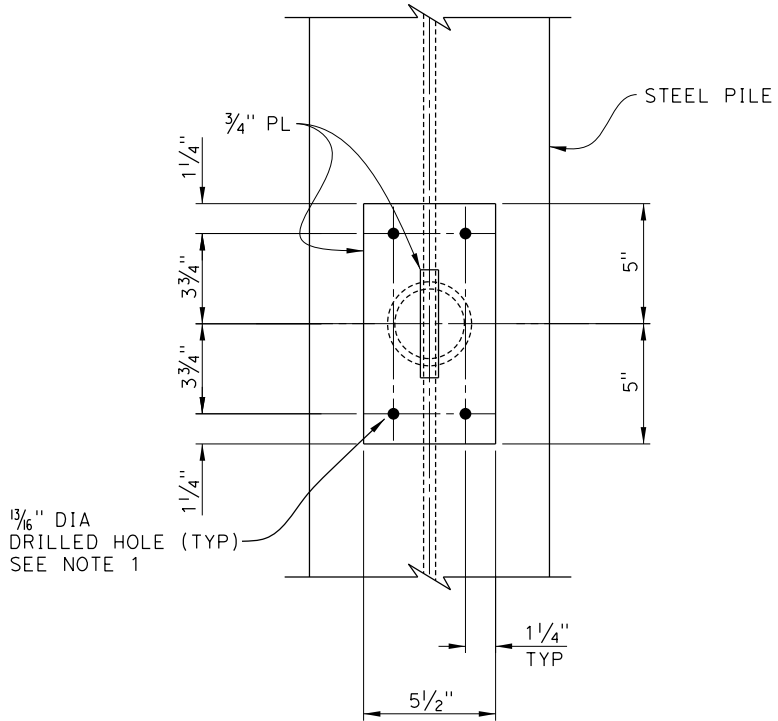
Sheet
 Reference
 Number

Sheet 6 of 7

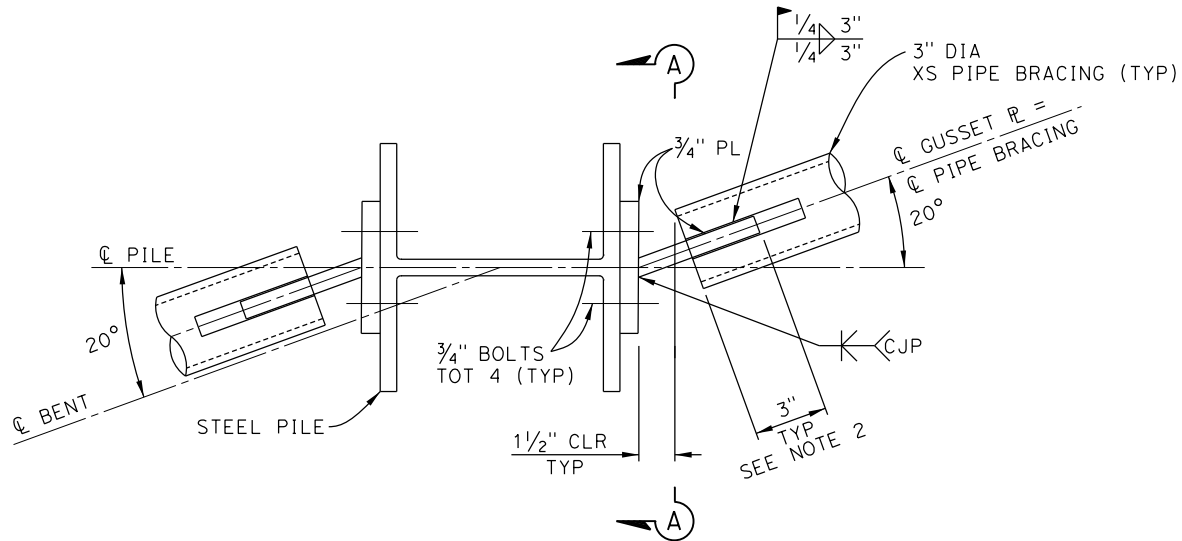


DETAIL 5
 3" = 1'-0"

DETAIL IS SHOWN
NORMAL TO PILE WEB



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



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

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

NOTES:

- Contractor shall field drill holes in pile flanges after pile driving and pile cutoff have been completed.
- Minimum length of weld is measured along pipe bracing.

AS-BUILT
 R.E./S.R.: K. TRAN
 DATE: 4-28-2015



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

TODD W. DUDLEY
 No. C-39514
 CIVIL
 State of California

3/20/15
 DATE

TODD W. DUDLEY

DESIGNED BY: I. DUDLEY	CHECKED BY: D. YEE	FILE NAME:	SCALE: AS SHOWN
DRAWN BY: J. QUINOZVEVA	DRAWING CODE:	PLOT DATE:	
COUNTY OF ORANGE OC PUBLIC WORKS	PREPARED BY: AECOM 999 W. Town & Country Road Orange, CA 92668 (714) 567-2501		

EDINGER AVENUE BRIDGE AT
 BOLSA CHICA CHANNEL
 REHABILITATION
 BR. NO. 55C-0400

**DETAILS
NO. 4**