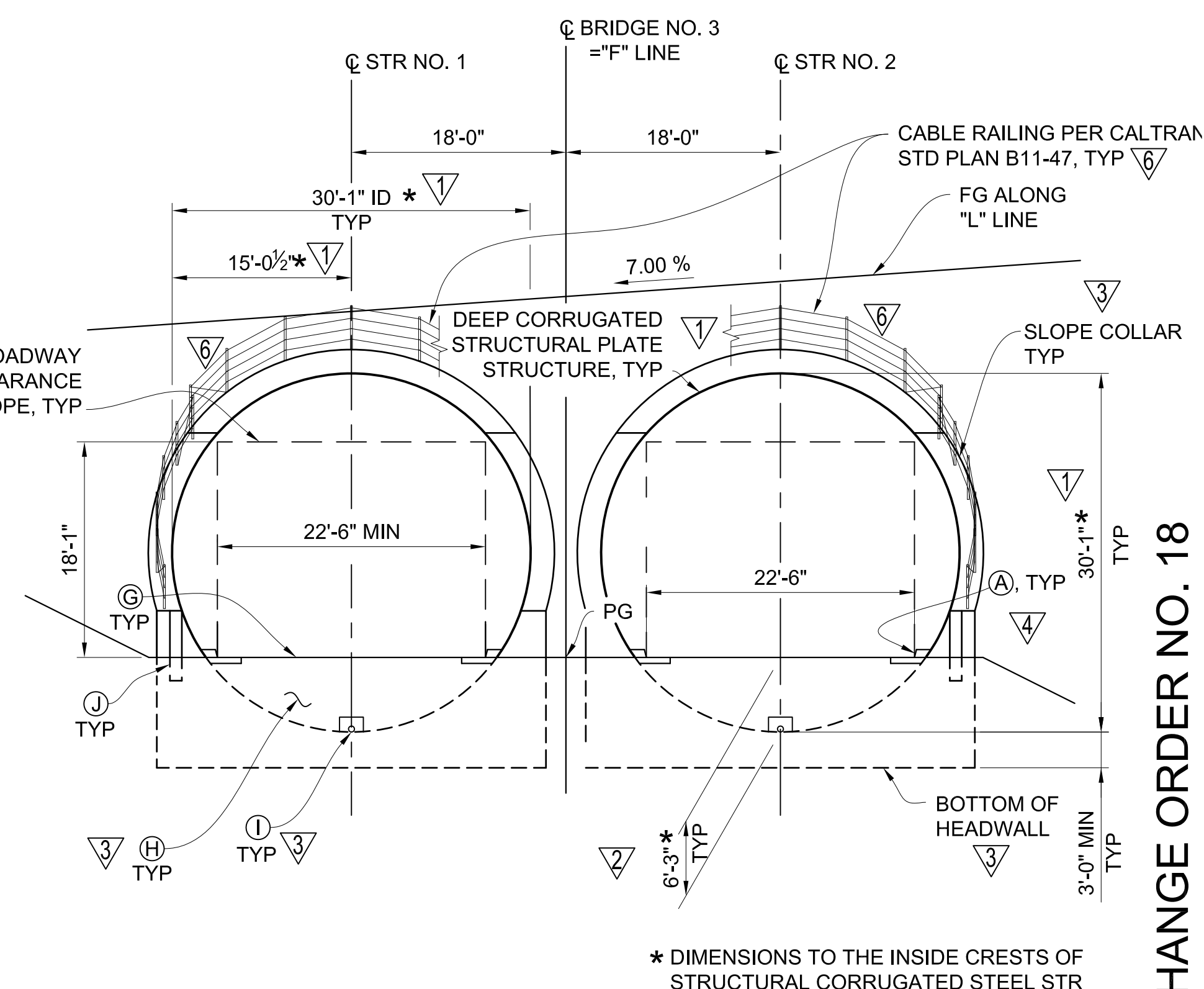



$$1'' = 10'$$

\* DIMENSIONS TO THE INSIDE CRESTS OF  
STRUCTURAL CORRUGATED STEEL STR

**LEGEND:**

INDICATES DIRECTION OF TRAFFIC

**NOTES:**

- (A) CONCRETE CURB, SEE "ROAD PLANS", SHEET ST-09
- (B) MBGR, SEE "ROAD PLANS", SHEET ST-09. REFER TO CALTRANS STANDARD PLAN A77J3 FOR STRUCTURAL CONNECTION DETAILS
- (C) CABLE RAILING, SEE "RETAINING WALL PLANS", SHEET RW-07
- (D) CRASH CUSHION SAND FILLED, SEE "ROAD PLANS", SHEET ST-09
- (E) 30'-1" ID DEEP CORRUGATED STRUCTURAL PLATE STRUCTURE, SEE "SHOP DRAWING PLANS"

- (G) AB SURFACING, SEE "ROAD PLANS", SHEET ST-09
- (H) ROADWAY FILL (CLEAN/NON-CORROSIVE) MATERIAL
- (I) 6" PERFORATED PIPE SUBDRAIN, SEE SHEET S3-4
- (J) CONCRETE WINGWALL

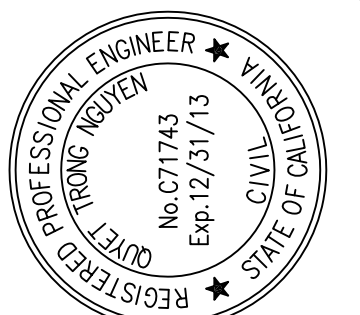
**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017

| SHEET NO.     | SHEET TITLE                            |
|---------------|----------------------------------------|
| S3-1          | GENERAL PLAN                           |
| S3-2          | BACKFILL ZONE DETAIL                   |
| S3-3          | END STRUCTURE TREATMENT DETAILS        |
| S3-4          | MISCELLANEOUS DETAILS                  |
| S3-5          | CALTRANS STANDARD PLANS                |
| S3-6          | LOG OF TEST BORINGS NO.1: LONGITUDINAL |
| S3-7          | LOG OF TEST BORINGS NO.2: TRANSVERSE   |
| 7-1 TO 9 OF 9 | SHOP DRAWING PLANS                     |

5 1 TO 9 OF 9 SHOP DRAWING PLANS



1. FOR "GENERAL NOTES", SEE SHEET S3-2
2. FOR ROADWAY CURVE DATA, SEE "ROADWAY PLANS"
3. REFER TO "EL" SHEETS FOR LIGHTING REQUIREMENTS

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

  
\_\_\_\_\_  
2. NGUYEN  
RCCE C 71743 (EXP.12-31-13)  
\_\_\_\_\_  
JULY 16, 2013  
\_\_\_\_\_  
DATE

|                                     |                                                                                                                                                                         |               |            |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|
| COUNTY OF ORANGE<br>OC PUBLIC WORKS | <br>10370 BELLEVUE STREET, Suite 230<br>RIVERSIDE, CA 92503<br>Tel. (951) 687-1005 | DESIGNED BY:  | BBB        |
|                                     |                                                                                                                                                                         | DRAWN BY:     |            |
|                                     |                                                                                                                                                                         | CHECKED BY:   |            |
|                                     |                                                                                                                                                                         | GR            |            |
|                                     |                                                                                                                                                                         | DRAWING CODE: |            |
|                                     |                                                                                                                                                                         | JOB NO.       | 11017      |
|                                     |                                                                                                                                                                         | SCALE:        |            |
|                                     |                                                                                                                                                                         | PLOT DATE:    | 11/06/2017 |
|                                     |                                                                                                                                                                         | AS SHOWN      |            |

LA PATA AVENUE GAP CLOSURE  
BRIDGE NO. 3

## GENERAL PLAN

Sheet  
Reference  
Number

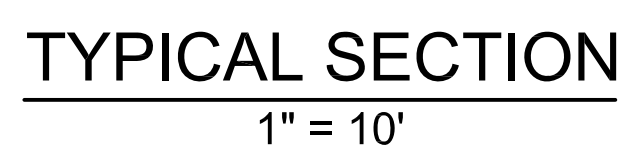
S3-1R1

255R1 OF 492





- AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017



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$$1'' = 10'$$

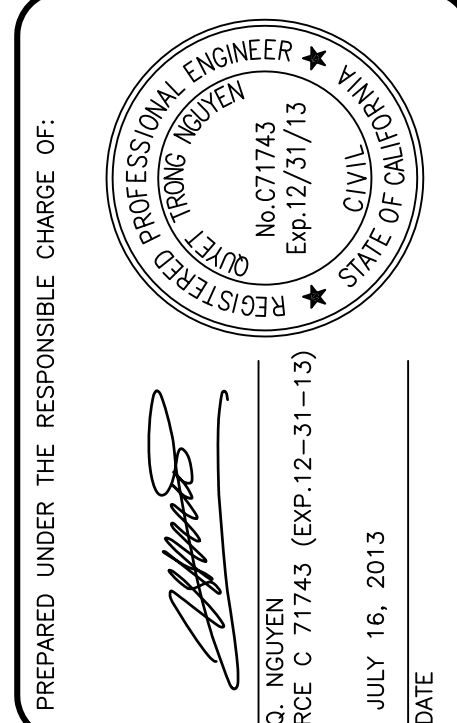
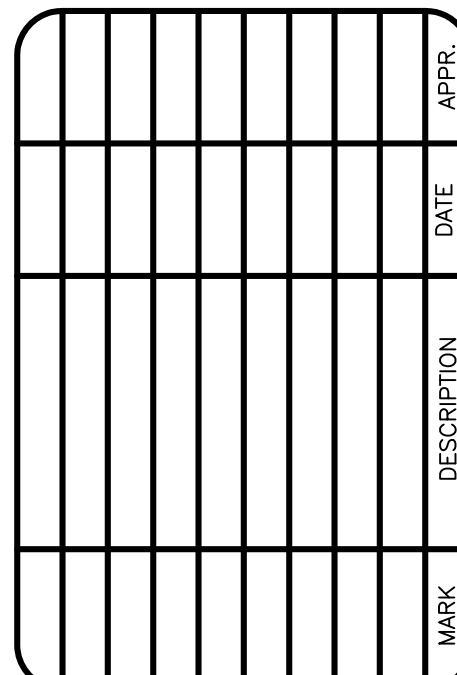
**LEGEND:**



NOTES:

- (A) CONCRETE CURB, SEE "ROAD PLANS", SHEET ST-09
- (B) MBGR, SEE "ROAD PLANS", SHEET ST-09. REFER TO CALTRANS STANDARD PLAN A77J3 FOR STRUCTURAL CONNECTION DETAILS
- (C) CABLE RAILING, SEE "RETAINING WALL PLANS", SHEET RW-07
- (D) CRASH CUSHION SAND FILLED, SEE "ROAD PLANS", SHEET ST-09
- (E) AASHTO LONG-SPAN PEAR SHAPE STRUCTURAL PLATE CORRUGATED STEEL STRUCTURE WITH BITUMINOUS COATING INSIDE AND OUTSIDE WITH THE FOLLOWING DIMENSIONS:
  - SPAN: 30'-0"
  - RISE: 29'-8"
- (G) AB SURFACING, SEE "ROAD PLANS", SHEET ST-09
- (H) ROADWAY FILL (CLEAN/NON-CORROSIVE) MATERIAL
- (I) 6" PERFORATED PIPE SUBDRAIN, SEE SHEET S3-4
- (J) CONCRETE WINGWALL

| SHEET NO. | SHEET TITLE                            |
|-----------|----------------------------------------|
| S3-1      | GENERAL PLAN                           |
| S3-2      | BACKFILL ZONE DETAIL                   |
| S3-3      | END STRUCTURE TREATMENT DETAILS        |
| S3-4      | MISCELLANEOUS DETAILS                  |
| S3-5      | CALTRANS STANDARD PLANS                |
| S3-6      | LOG OF TEST BORINGS NO.1: LONGITUDINAL |
| S3-7      | LOG OF TEST BORINGS NO.2: TRANSVERSE   |



|                                     |                                                                                                                                                                                        |               |             |  |  |  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|--|--|--|
| COUNTY OF ORANGE<br>OC PUBLIC WORKS | <br>T&E Engineers<br>10370 HEWITT STREET, Suite 230<br>RIVERSIDE, CA 92503<br>Tel: (951) 687-1005 | DESIGNED BY:  |             |  |  |  |
|                                     |                                                                                                                                                                                        | Q/N           |             |  |  |  |
|                                     |                                                                                                                                                                                        | DRAWN BY:     | CHECKED BY: |  |  |  |
|                                     |                                                                                                                                                                                        | N/L           | GR          |  |  |  |
|                                     |                                                                                                                                                                                        | DRAWING CODE: |             |  |  |  |
|                                     |                                                                                                                                                                                        | JOB NO.       |             |  |  |  |
|                                     |                                                                                                                                                                                        | 11017         |             |  |  |  |
|                                     |                                                                                                                                                                                        | SCALE:        |             |  |  |  |
|                                     |                                                                                                                                                                                        | PLOT DATE:    | 11/06/2017  |  |  |  |
|                                     |                                                                                                                                                                                        | AS SHOWN      |             |  |  |  |

LA PATA AVENUE GAP CLOSURE  
BRIDGE NO. 3

GENERAL PLAN

Sheet  
Reference  
Number

**S3-1**

255 OF 492

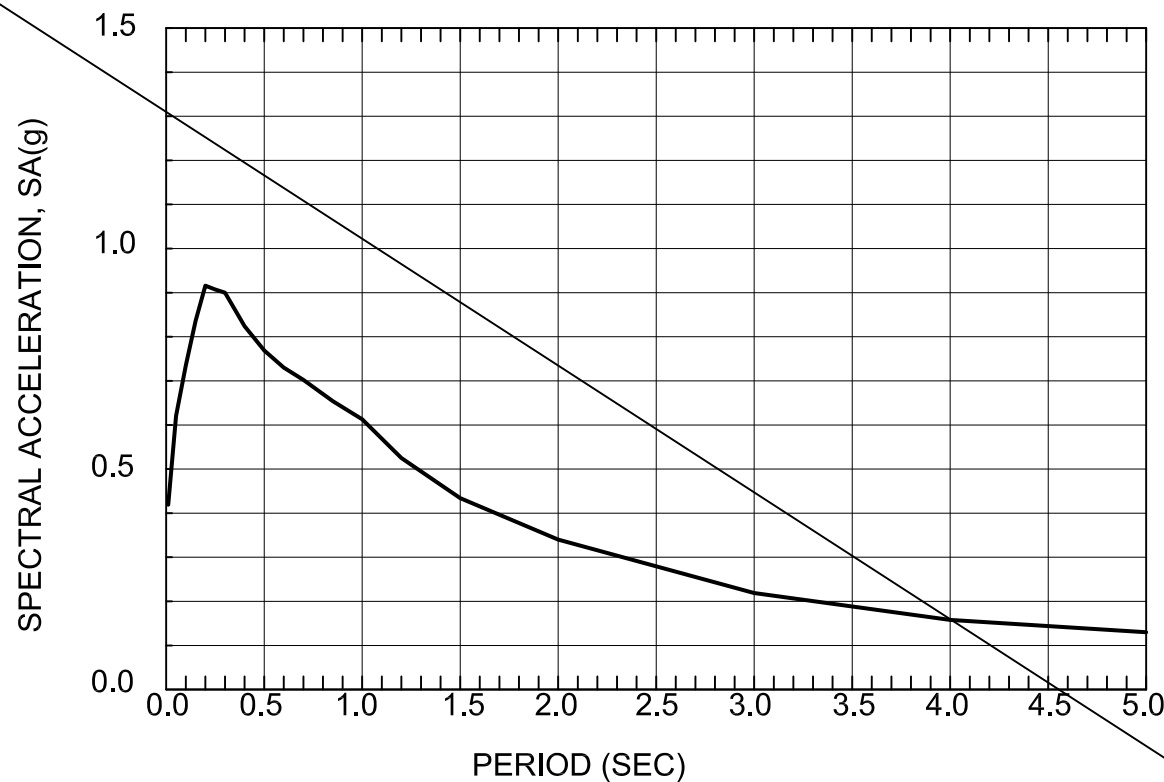


|                                                                                                                                         | Zone | Details                   | Nov 06 | 2:58pm |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------|--------|--------|
| W:\11017\Ia Pata Ave Gap Closure Construction Supports\AS-built\s\Bridg No. 3\as built_20150217 - Coop\S3-2 - Backfill Zone Details.dwg | S3-2 | Backfill Zone Details.dwg | Nov 06 | 2:58pm |





|                  |                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|
| DESIGN:          | AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,<br>FOURTH EDITION WITH CALIFORNIA AMENDMENTS<br>PREFACE DATED NOVEMBER 2011.          |
| SOIL:            | G = 140 pcf                                                                                                                     |
| SEISMIC LOADING: | SOIL PROFILE: TYPE D<br>SHEAR WAVE VELOCITY $V_{s30} = 270$ m/s<br>MOMENT MAGNITUDE: 7.2 MAX<br>PEAK GROUND ACCELERATION: 0.42g |



**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:



Q. NGUYEN

NO. 071743

Exp. 12/31/13

REGISTERED PROFESSIONAL ENGINEER

CIVIL

STATE OF CALIFORNIA

DATE: JULY 16, 2013

EXP. 12-31-13

|                                                                                                                                                                                                      |               |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|
| COUNTY OF ORANGE<br>OC PUBLIC WORKS                                                                                                                                                                  | DESIGNED BY:  |             |
|                                                                                                                                                                                                      | ON            |             |
|                                                                                                                                                                                                      | DRAWN BY:     | CHECKED BY: |
|                                                                                                                                                                                                      | NL            | JP          |
|                                                                                                                                                                                                      | DRAWING CODE: |             |
| <br>CIMA Engineers & Architects<br>10370 HERMIT STREET, Suite 230<br>RIVERSIDE, CA 92503<br>Tel: (951) 687-1005 | JOB NO.       |             |
|                                                                                                                                                                                                      | 11017         |             |
|                                                                                                                                                                                                      | PLOT DATE:    | SCALE:      |
|                                                                                                                                                                                                      | 11/06/2017    | AS SHOWN    |

LA PATA AVENUE GAP CLOSURE  
BRIDGE NO. 3

BACKFILL ZONE  
DETAIL

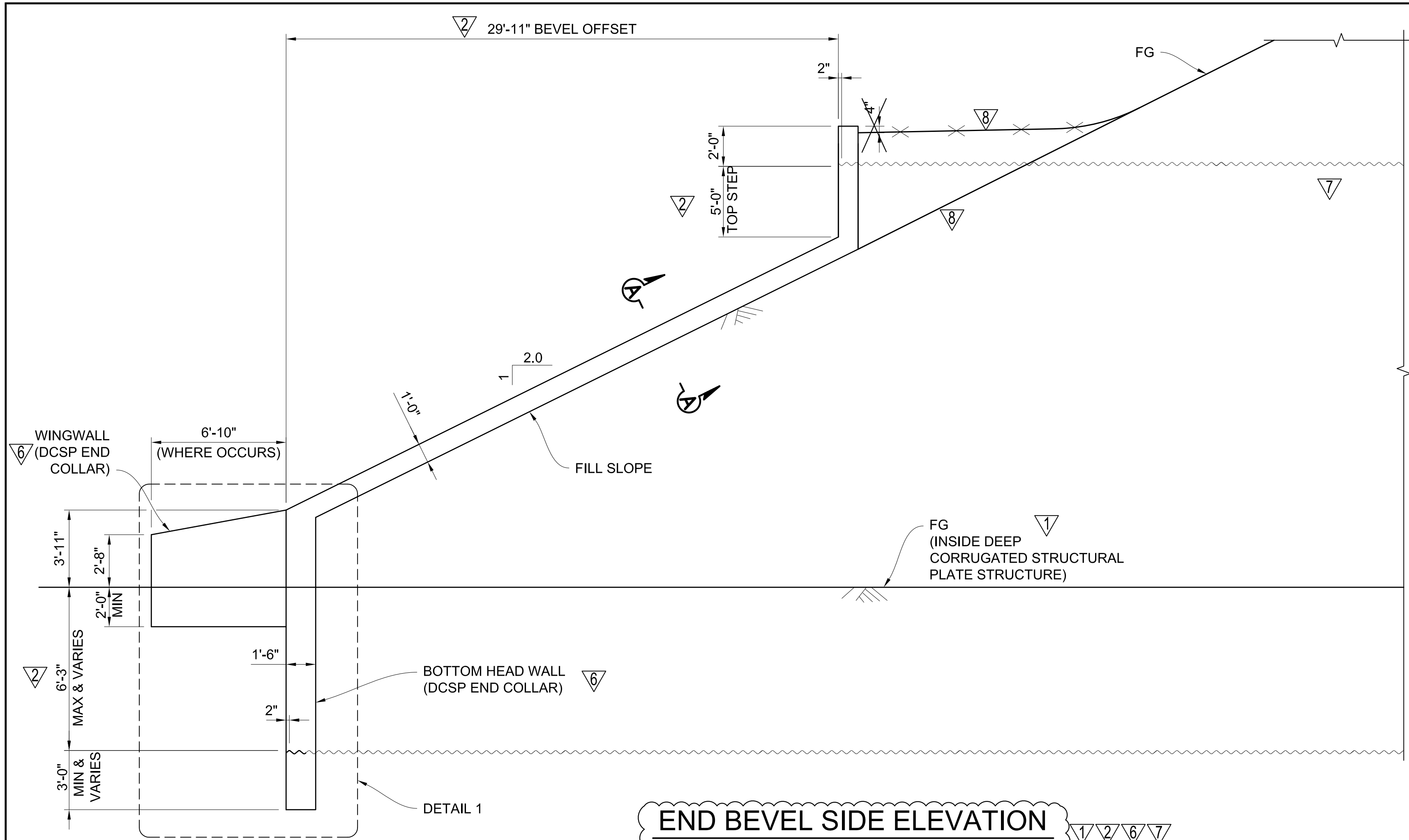
Sheet  
Reference  
Number

**S3-2**

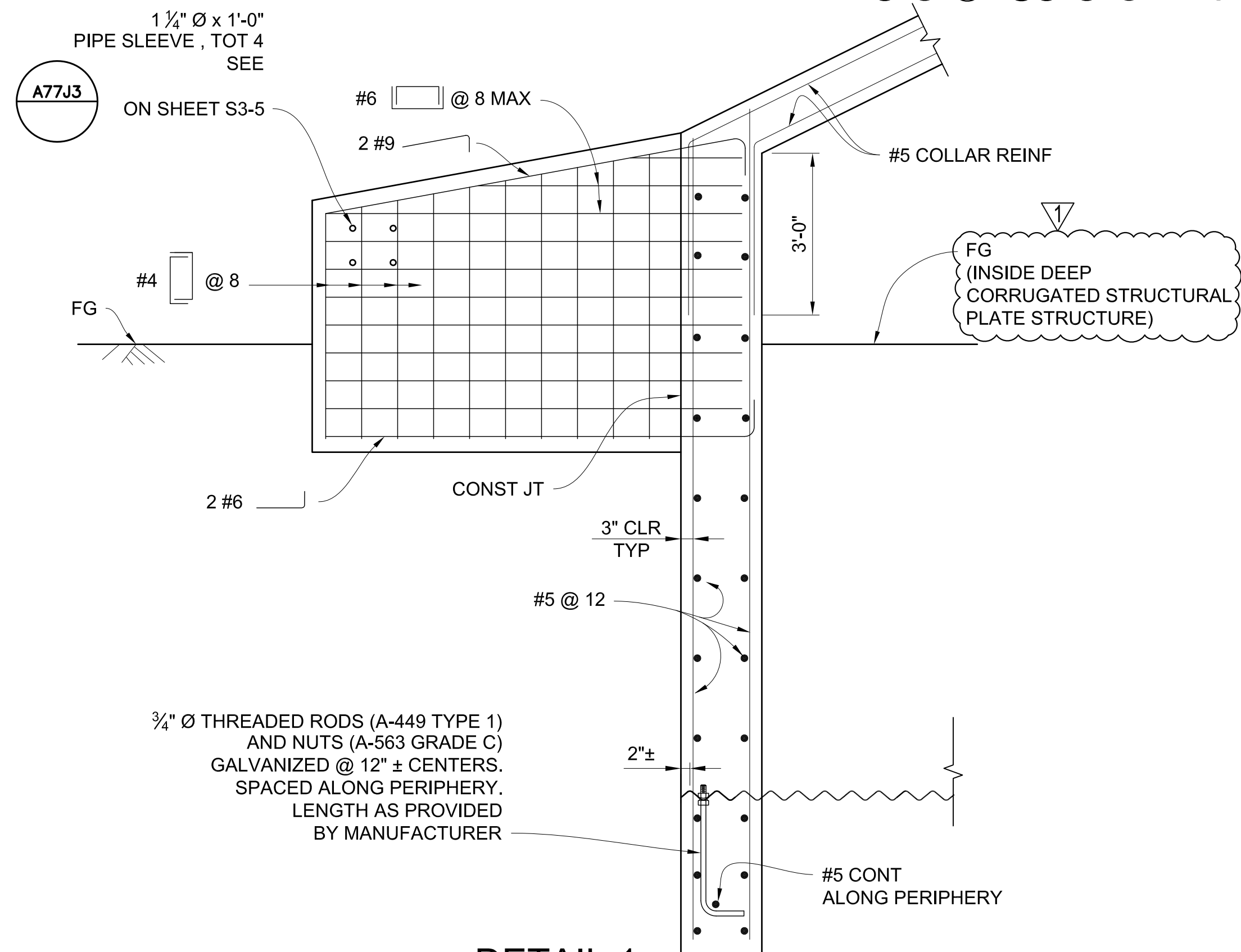
256 OF 492

|                                                                                      | Zone                             | Details                          | Nov 06 | 2017 | 3: 03pm |
|--------------------------------------------------------------------------------------|----------------------------------|----------------------------------|--------|------|---------|
| \\11017\q Pata Ave Gap Closure Construction Supports\AS-built\Bridges No. 3\as built | S3-2 - Backfill Zone Details.dwg | S3-2 - Backfill Zone Details.dwg |        |      |         |
| \\11017\q Pata Ave Gap Closure Construction Supports\AS-built\Bridges No. 3\as built | S3-2 - Backfill Zone Details.dwg | S3-2 - Backfill Zone Details.dwg |        |      |         |



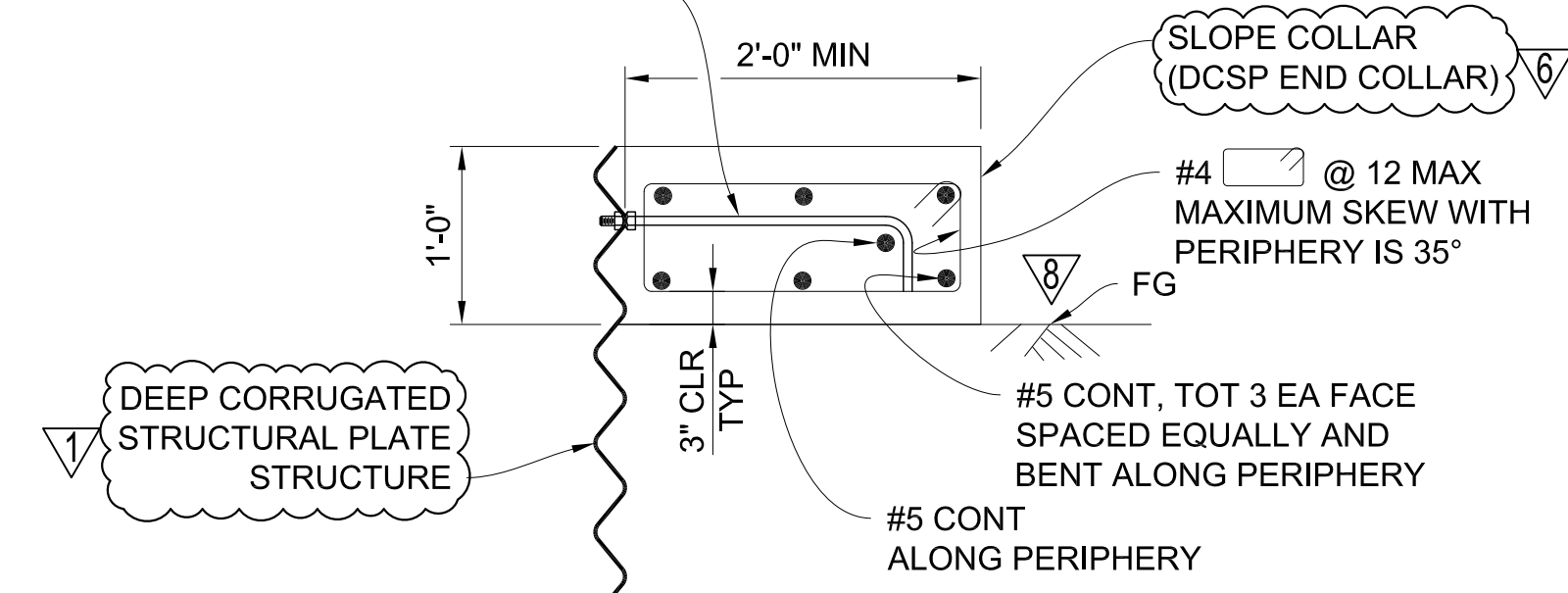


END BEVEL SIDE ELEVATION  
NO SCALE



DETAIL 1  
NO SCALE

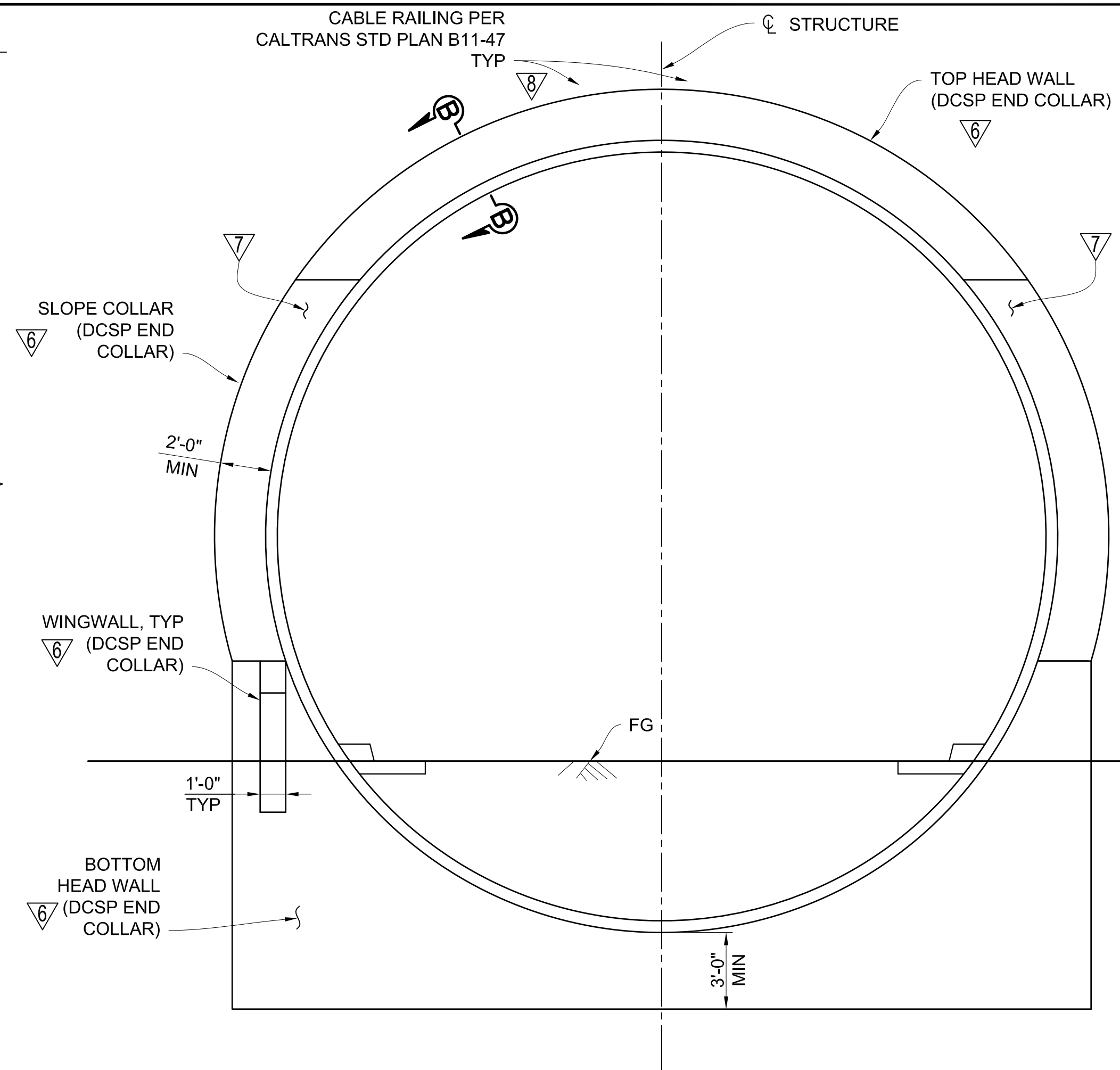
3/4" Ø THREADED RODS (A-449 TYPE 1)  
AND NUTS (A-563 GRADE C)  
GALVANIZED @ 12" ± CENTERS.  
SPACED ALONG PERIPHERY.  
LENGTH AS PROVIDED  
BY MANUFACTURER



SECTION A-A  
NO SCALE

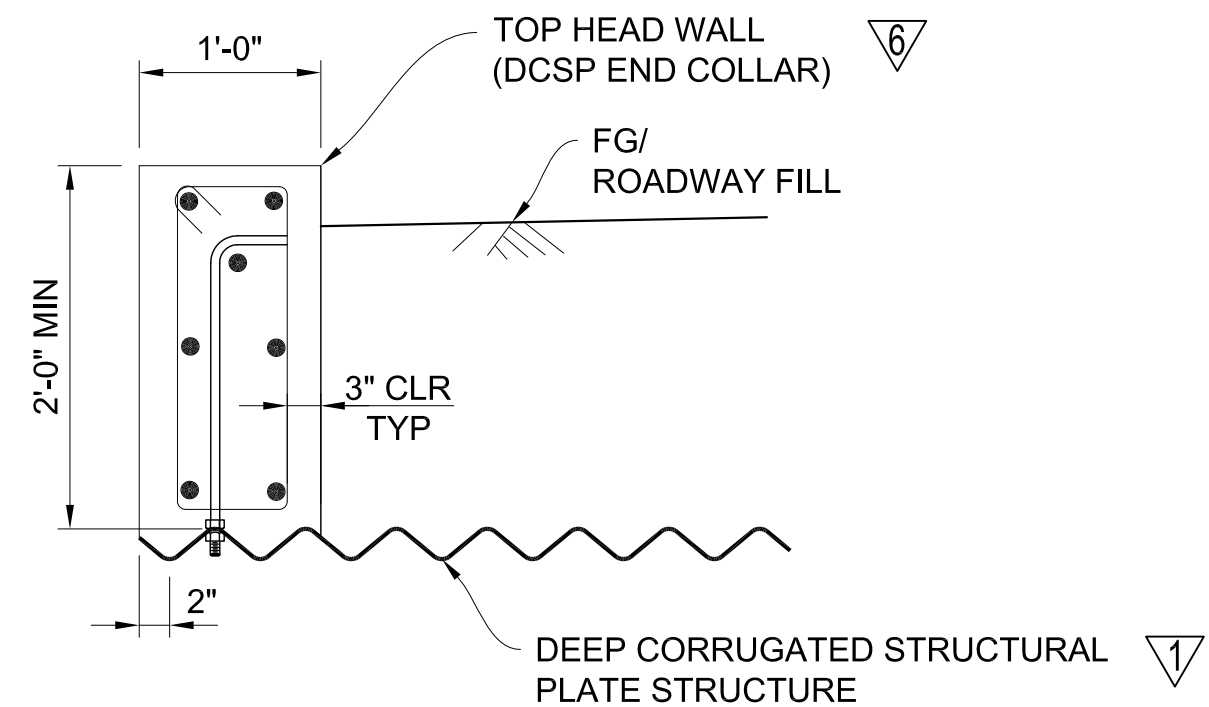
NOTES:

THE STRUCTURE END TREATMENT DETAILS ON THIS SHEET ARE COPIED AND MODIFIED FROM CALTRANS STANDARD PLANS A77J3 AND B14-1 FOR BIDDING PURPOSE, THE CONTRACTOR SHALL PROVIDE THE STRUCTURE END TREATMENT DETAILS WITH SUPPORTING CALCULATIONS BASED ON THE ACTUAL STRUCTURAL CORRUGATED STEEL MATERIAL USED IN THE PROJECT.



STRUCTURE END ELEVATION  
1/4" = 1'-0"

NOTE: STR NO.1 SHOWN, STR. NO.2 SIMILAR.



SECTION B-B  
NO SCALE

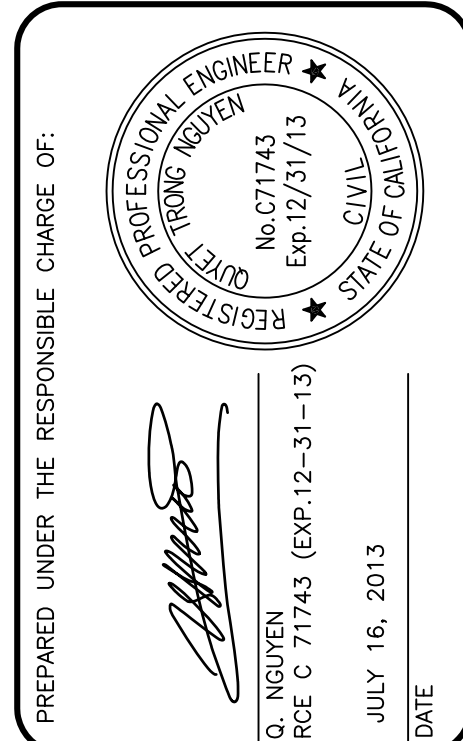
NOTE: FOR INFORMATION NOT SHOWN, SEE SECTION A-A.

**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017

CONTRACT CHANGE ORDER NO. 18



| REVISION | DATE    | BY | APP. |
|----------|---------|----|------|
| 1        | 12-17   | ON | ON   |
| 2        | 1-30-15 | ON | ON   |
| 3        | 1-30-15 | ON | ON   |
| 4        | 1-30-15 | ON | ON   |
| 5        | 1-30-15 | ON | ON   |
| 6        | 1-30-15 | ON | ON   |
| 7        | 1-30-15 | ON | ON   |
| 8        | 1-30-15 | ON | ON   |
| 9        | 1-30-15 | ON | ON   |
| 10       | 1-30-15 | ON | ON   |
| 11       | 1-30-15 | ON | ON   |
| 12       | 1-30-15 | ON | ON   |
| 13       | 1-30-15 | ON | ON   |
| 14       | 1-30-15 | ON | ON   |
| 15       | 1-30-15 | ON | ON   |
| 16       | 1-30-15 | ON | ON   |
| 17       | 1-30-15 | ON | ON   |
| 18       | 1-30-15 | ON | ON   |
| 19       | 1-30-15 | ON | ON   |
| 20       | 1-30-15 | ON | ON   |
| 21       | 1-30-15 | ON | ON   |
| 22       | 1-30-15 | ON | ON   |
| 23       | 1-30-15 | ON | ON   |
| 24       | 1-30-15 | ON | ON   |
| 25       | 1-30-15 | ON | ON   |
| 26       | 1-30-15 | ON | ON   |
| 27       | 1-30-15 | ON | ON   |
| 28       | 1-30-15 | ON | ON   |
| 29       | 1-30-15 | ON | ON   |
| 30       | 1-30-15 | ON | ON   |
| 31       | 1-30-15 | ON | ON   |
| 32       | 1-30-15 | ON | ON   |
| 33       | 1-30-15 | ON | ON   |
| 34       | 1-30-15 | ON | ON   |
| 35       | 1-30-15 | ON | ON   |
| 36       | 1-30-15 | ON | ON   |
| 37       | 1-30-15 | ON | ON   |
| 38       | 1-30-15 | ON | ON   |
| 39       | 1-30-15 | ON | ON   |
| 40       | 1-30-15 | ON | ON   |
| 41       | 1-30-15 | ON | ON   |
| 42       | 1-30-15 | ON | ON   |
| 43       | 1-30-15 | ON | ON   |
| 44       | 1-30-15 | ON | ON   |
| 45       | 1-30-15 | ON | ON   |
| 46       | 1-30-15 | ON | ON   |
| 47       | 1-30-15 | ON | ON   |
| 48       | 1-30-15 | ON | ON   |
| 49       | 1-30-15 | ON | ON   |
| 50       | 1-30-15 | ON | ON   |
| 51       | 1-30-15 | ON | ON   |
| 52       | 1-30-15 | ON | ON   |
| 53       | 1-30-15 | ON | ON   |
| 54       | 1-30-15 | ON | ON   |
| 55       | 1-30-15 | ON | ON   |
| 56       | 1-30-15 | ON | ON   |
| 57       | 1-30-15 | ON | ON   |
| 58       | 1-30-15 | ON | ON   |
| 59       | 1-30-15 | ON | ON   |
| 60       | 1-30-15 | ON | ON   |
| 61       | 1-30-15 | ON | ON   |
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| 66       | 1-30-15 | ON | ON   |
| 67       | 1-30-15 | ON | ON   |
| 68       | 1-30-15 | ON | ON   |
| 69       | 1-30-15 | ON | ON   |
| 70       | 1-30-15 | ON | ON   |
| 71       | 1-30-15 | ON | ON   |
| 72       | 1-30-15 | ON | ON   |
| 73       | 1-30-15 | ON | ON   |
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| 75       | 1-30-15 | ON | ON   |
| 76       | 1-30-15 | ON | ON   |
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| 84       | 1-30-15 | ON | ON   |
| 85       | 1-30-15 | ON | ON   |
| 86       | 1-30-15 | ON | ON   |
| 87       | 1-30-15 | ON | ON   |
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| 97       | 1-30-15 | ON | ON   |
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| 99       | 1-30-15 | ON | ON   |
| 100      | 1-30-15 | ON | ON   |

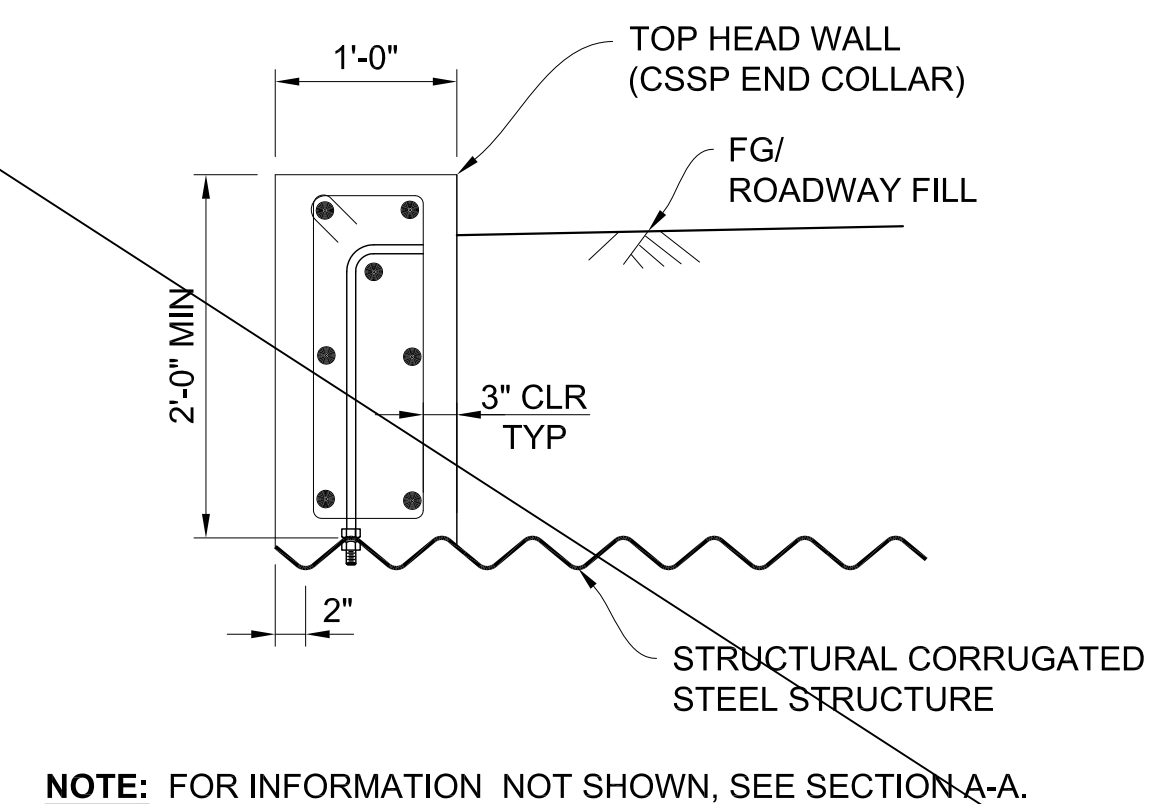
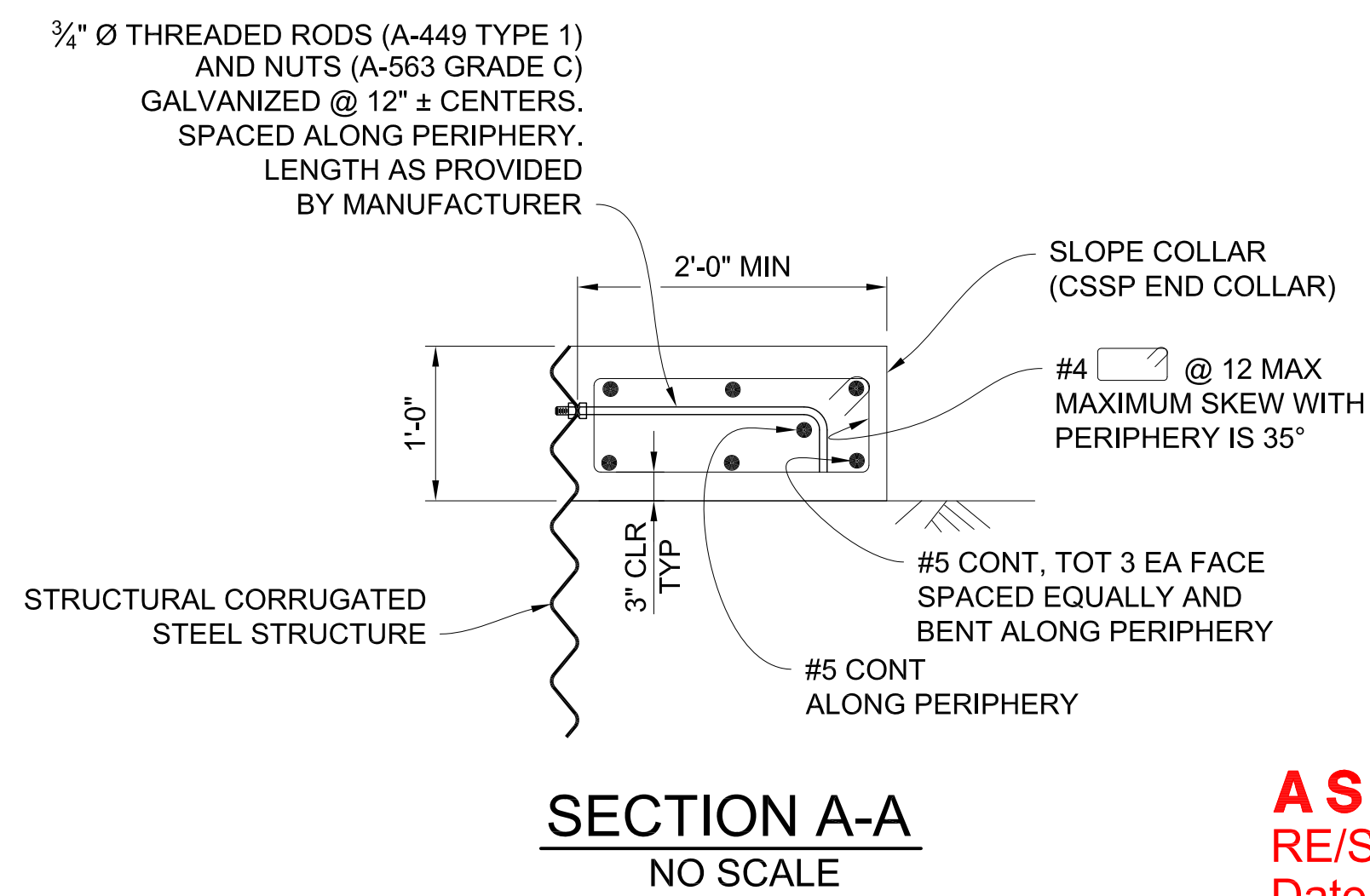
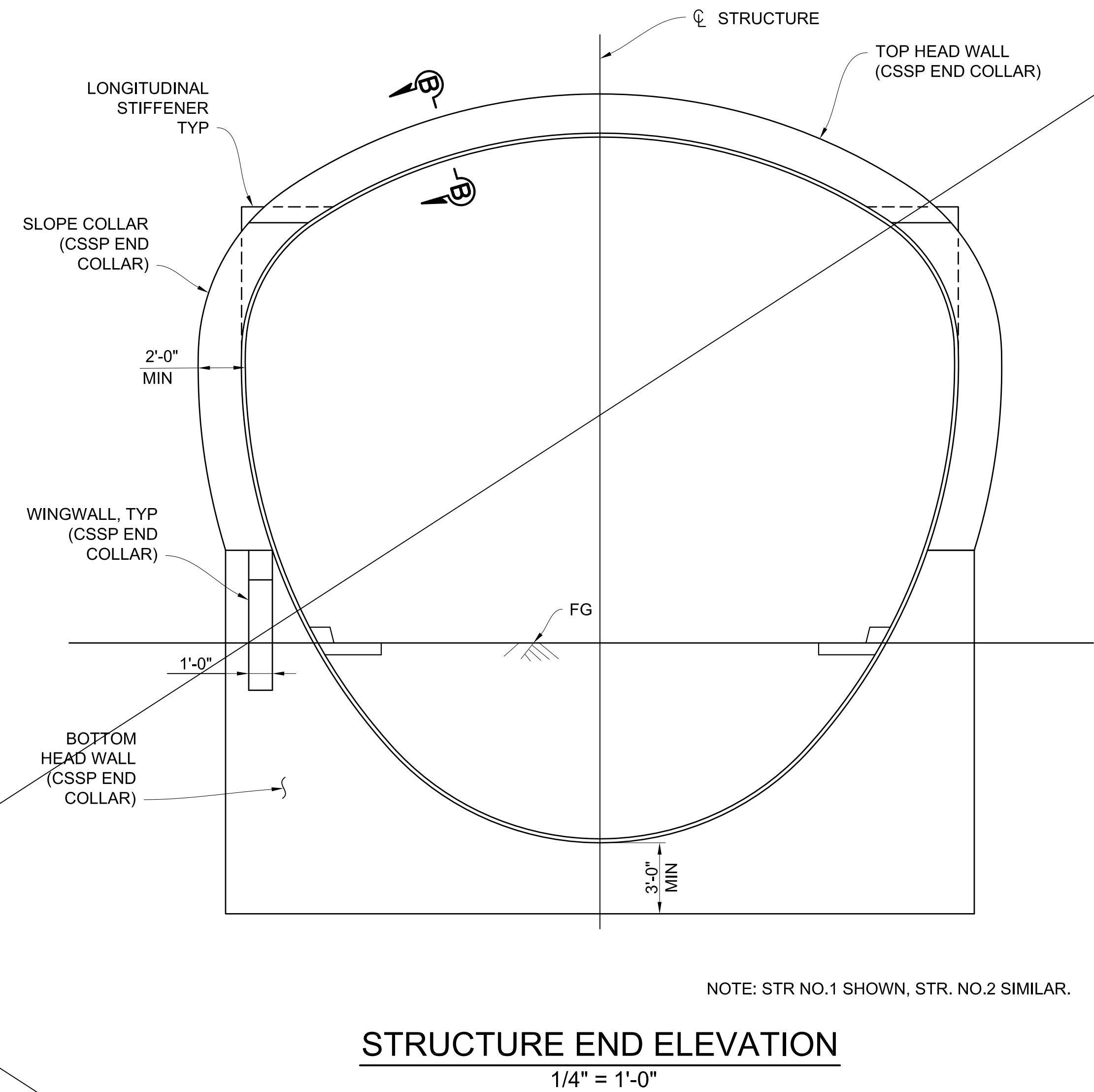


|               |            |
|---------------|------------|
| DESIGNED BY:  | ON         |
| DRAWN BY:     | NL         |
| CHECKED BY:   | JP         |
| DRAWING CODE: |            |
| JOB NO.       | 11017      |
| PLOT DATE:    | 11/06/2017 |
| SCALE:        | AS SHOWN   |

|                                     |                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------|
| COUNTY OF ORANGE<br>OC PUBLIC WORKS | ENGINEERS<br>10370 HENRY STREET, Suite 230<br>RIVERSIDE, CA 92503<br>Tel: (951) 687-1005 |
|-------------------------------------|------------------------------------------------------------------------------------------|

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| LA PATA AVENUE GAP CLOSURE<br>BRIDGE NO. 3 | STRUCTURE END<br>TREATMENT DETAILS |
| Sheet<br>Reference<br>Number               |                                    |
| S3-3R1                                     |                                    |
| 257R1 OF 492                               |                                    |

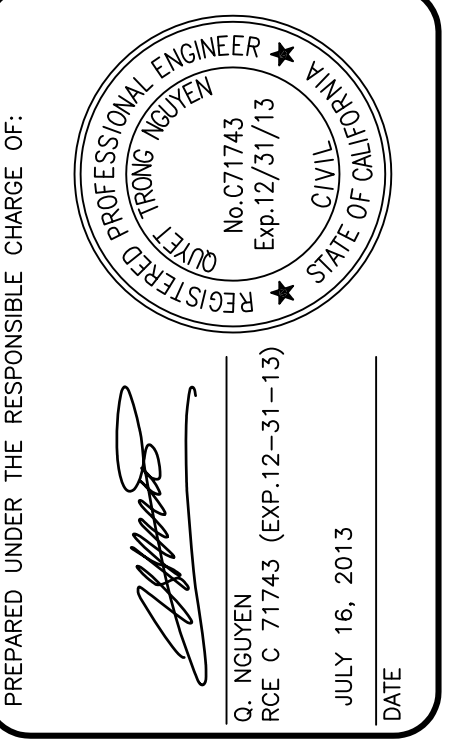




**NOTE:** FOR INFORMATION NOT SHOWN, SEE SECTION ~~A-A~~.

**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017

**NOTES:**  
THE STRUCTURE END TREATMENT DETAILS ON THIS SHEET ARE COPIED AND MODIFIED FROM CALTRANS STANDARD PLANS A77J3 AND B14-1 FOR BIDDING PURPOSE, THE CONTRACTOR SHALL PROVIDE THE STRUCTURE END TREATMENT DETAILS WITH SUPPORTING CALCULATIONS BASED ON THE ACTUAL STRUCTURAL CORRUGATED STEEL MATERIAL USED IN THE PROJECT.

[illegible]

|               |             |
|---------------|-------------|
| DESIGNED BY:  |             |
| Q/N           |             |
| DRAWN BY:     | CHECKED BY: |
| N/L           | J/P         |
| DRAWING CODE: |             |
| JOB NO.       |             |
| 11017         |             |
| PLOT DATE:    | SCALE:      |
| 11/06/2017    | AS SHOWN    |

COUNTY OF ORANGE  
OC PUBLIC WORKS

---

 **TENA Engineers<sup>®</sup>**  
10370 HEMET STREET, Suite 230  
RIVERSIDE, CA 92503  
Tel: (951) 687-1005

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LA PATA AVENUE GAP CLOSURE  
BRIDGE NO. 3

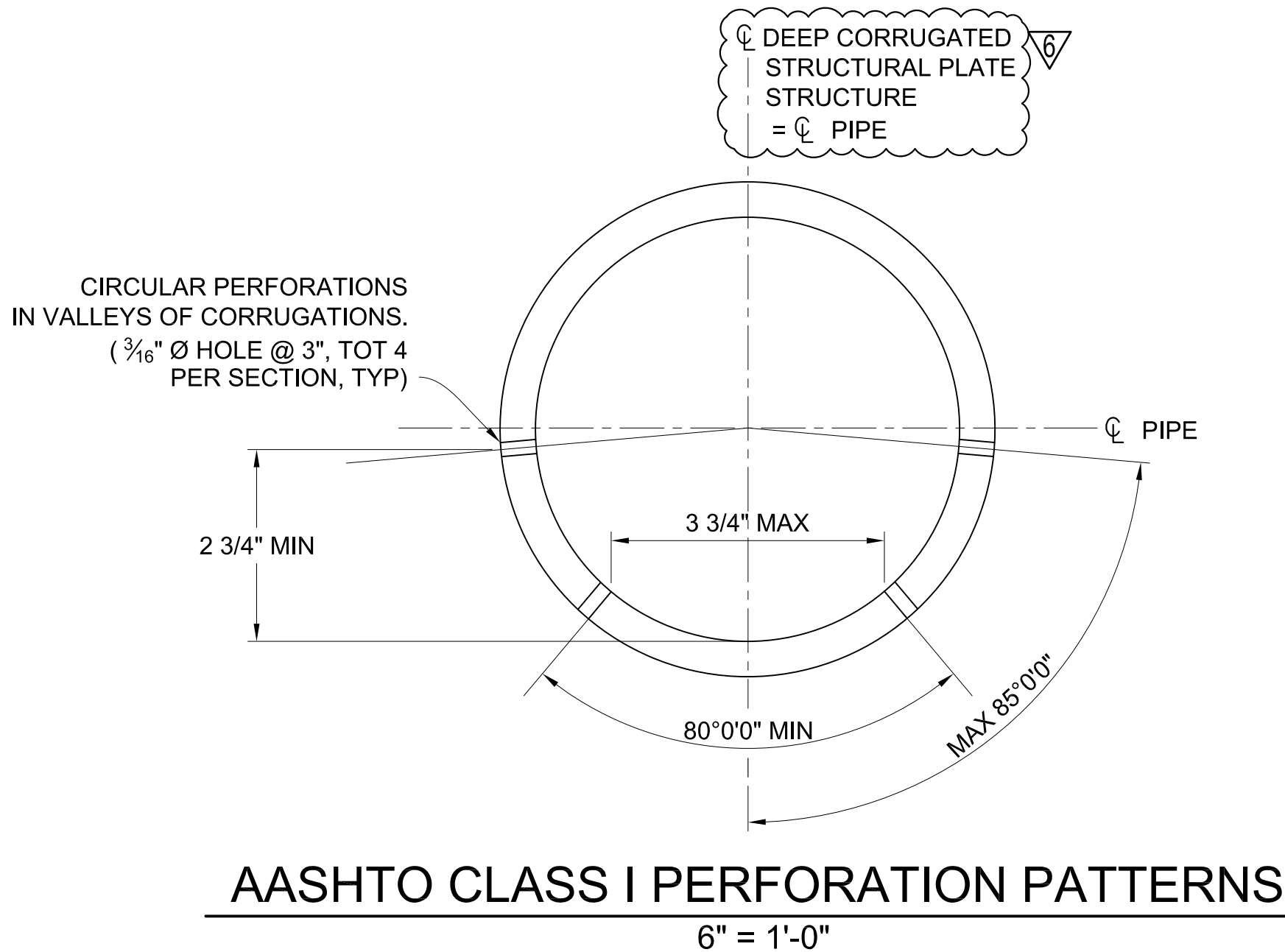
STRUCTURE END  
TREATMENT DETAILS

Sheet  
Reference  
Number

**S3-3**

257 OF 492





**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017

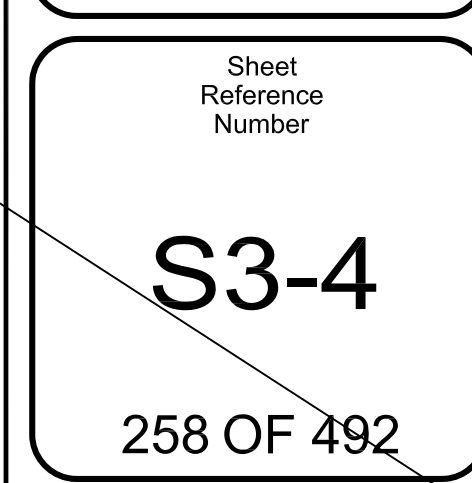
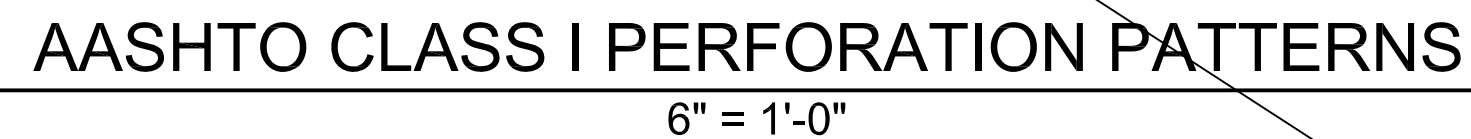
[illegible]





1. REINFORCED CONCRETE LONGITUDINAL STIFFENER TO BE POURED IN A MANNER TO MAINTAIN BALANCED LOADING ON EACH SIDE OF THE STRUCTURE.
2. LONGITUDINAL REINFORCING BARS MAY BE PLACED ON EITHER SIDE OF BENT ROD.
3. MAINTAIN 3" MIN. CONCRETE COVER OVER ALL REBAR.

THE LONGITUDINAL STIFFENER DETAIL ON THIS SHEET IS COPIED AND MODIFIED FROM A MANUFACTURE PLAN FOR BIDDING PURPOSE, THE CONTRACTOR SHALL PROVIDE LONGITUDINAL STIFFENER DETAIL WITH SUPPORTING CALCULATIONS BASED ON THE ACTUAL STRUCTURAL CORRUGATED STEEL MATERIAL USED IN THE PROJECT.

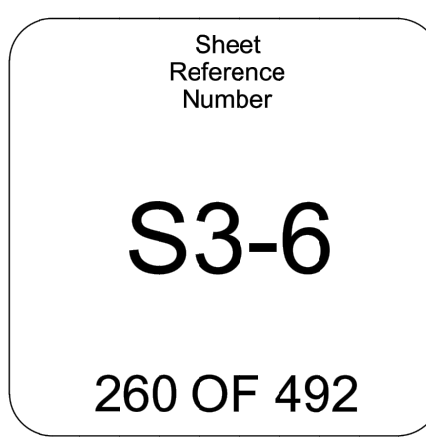


**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017















# CNTECH<sup>®</sup>

ENGINEERED SOLUTIONS LLC

## BRIDGECOR PLATE

### SAN CLEMENTE, CA

| 447263-INDEX |                 |
|--------------|-----------------|
| PAGE NUMBER  | PAGE TITLE      |
|              | COVER SHEET     |
| 1            | PROFILES/SHAPES |
| 2-4          | PLATE LAYOUTS   |
| 5-9          | DETAILS         |

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (9) PAGES.

CUSTOMER

DATE

#### GALVANIZED STEEL STRUCTURAL PLATE SPECIFICATIONS

##### SCOPE

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE GALVANIZED STEEL STRUCTURAL PLATE STRUCTURE DETAILED IN THE PLANS.

##### MATERIALS

THE GALVANIZED STEEL STRUCTURAL PLATE STRUCTURE SHALL CONSIST OF PLATES AND APPURTENANT ITEMS AS SHOWN ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 167/ASTM A 761. ALL MANUFACTURING PROCESSES INCLUDING CORRUGATING, PUNCHING, CURVING AND GALVANIZING SHALL BE PERFORMED WITHIN THE UNITED STATES USING RAW MATERIALS MADE IN THE UNITED STATES. ASSEMBLY BOLTS AND NUTS SHALL BE GALVANIZED AND MEET THE PROVISIONS OF ASTM A 449, TYPE 1, AND ASTM A-563, GRADE C, RESPECTIVELY.

##### ASSEMBLY

THE STRUCTURE SHALL BE ASSEMBLED IN ACCORDANCE WITH THE SHOP DRAWINGS PROVIDED BY THE MANUFACTURER AND PER THE MANUFACTURER'S RECOMMENDATIONS. BOLTS SHALL BE TIGHTENED USING AN APPLIED TORQUE OF BETWEEN 100 AND 300 FT.-LBS.

##### INSTALLATION

THE STRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26 (DIVISION II).

##### BACKFILL

THE STRUCTURE SHALL BE BACKFILLED USING CLEAN WELL GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF AASHTO M 145 FOR SOIL CLASSIFICATION A-1, A-2-4, A-2-5 AND A-3. BACKFILL MUST BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 6 TO 8 INCH LIFTS. EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT DENSITY PER AASHTO T-180.

##### NOTE

CONSTRUCTION LOADS THAT EXCEED HIGHWAY LOAD LIMITS ARE NOT ALLOWED ON THE STRUCTURE WITHOUT APPROVAL FROM THE ENGINEER.

#### CNS ENGINEERS, INC.

- ☒ Approved ☐ Approved as Corrected  
☐ Rejected ☐ Revise and Resubmit  
☐ Submit Specified Item

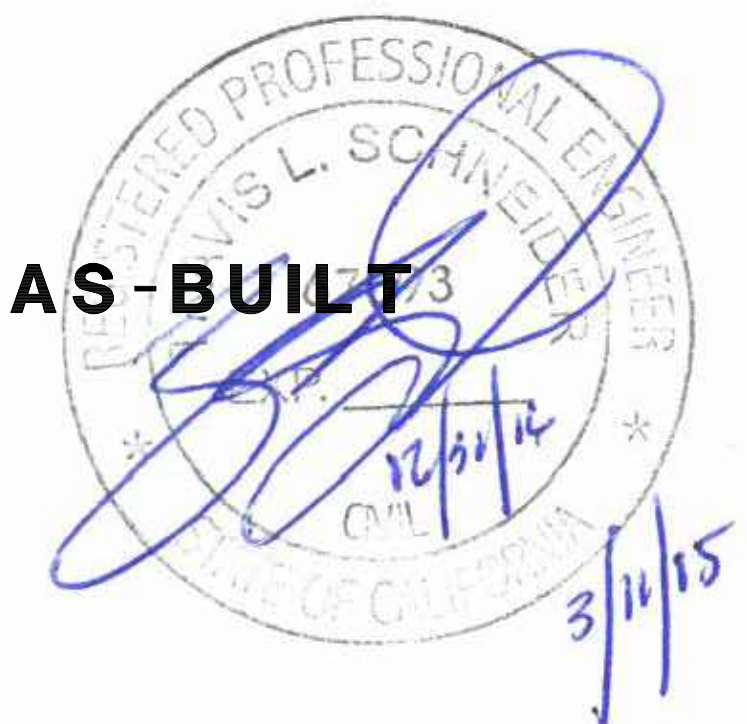
This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work of all trades; and for performing all work in a safe and satisfactory manner.

Date 3/23/2015 By

(10 sheets)

AS-BUILT

AS-BUILT  
RE/SR: K. TRAN  
Date: 01/21/2017

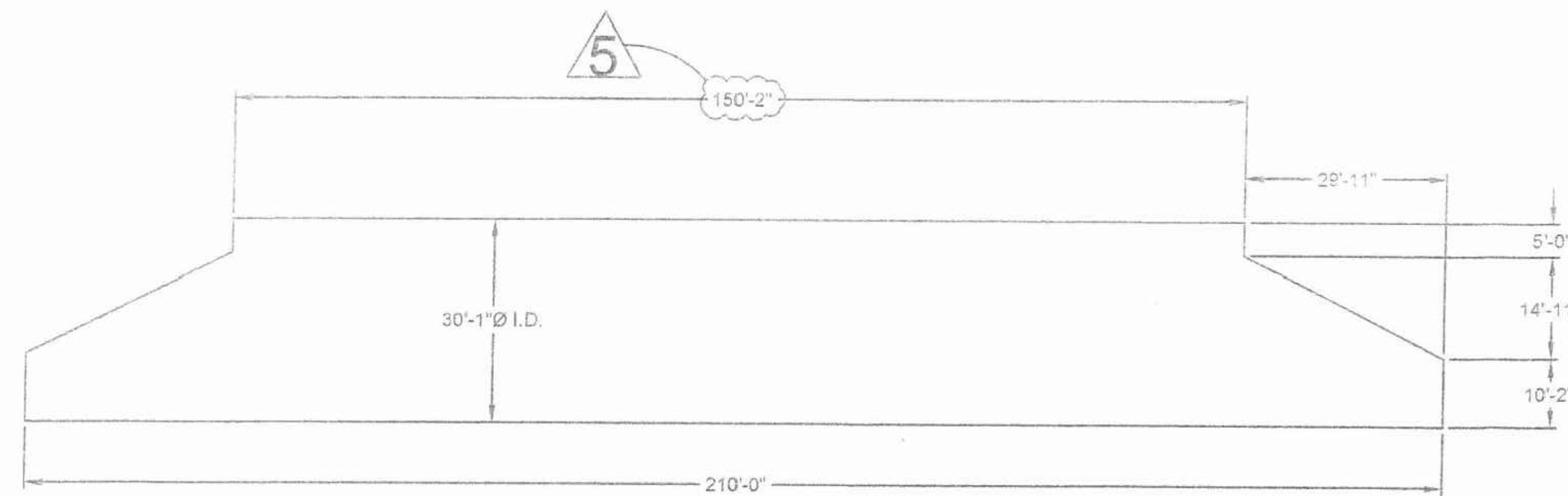


PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

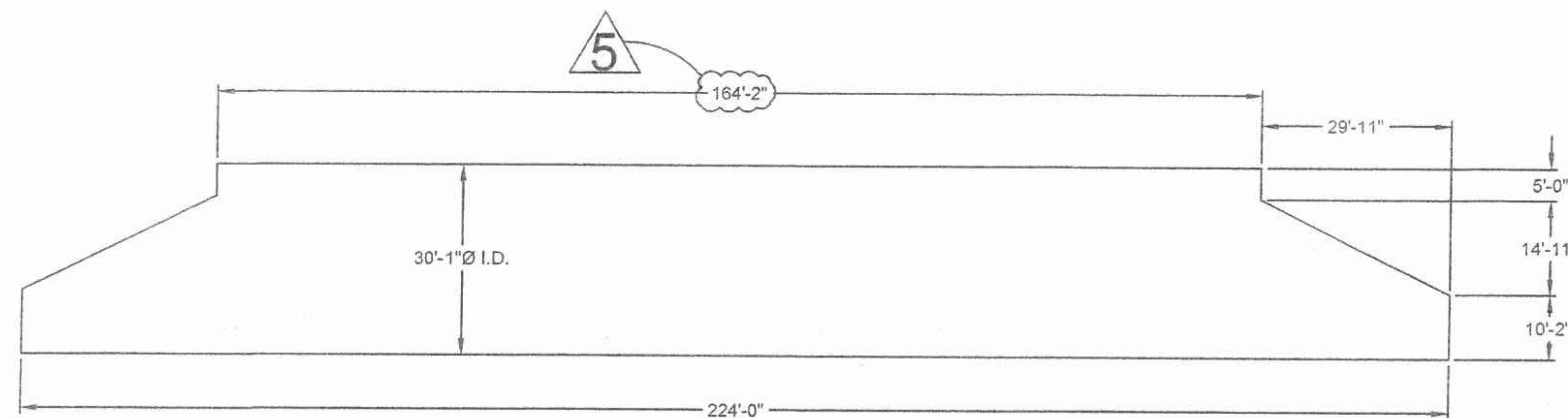
CONTECH PROJECT ID # 447263



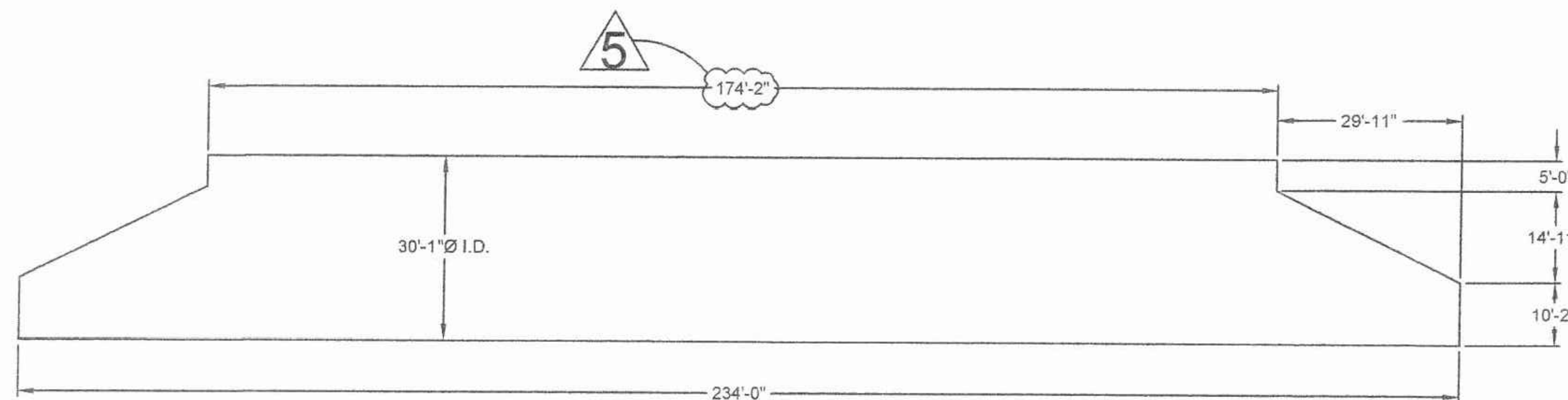
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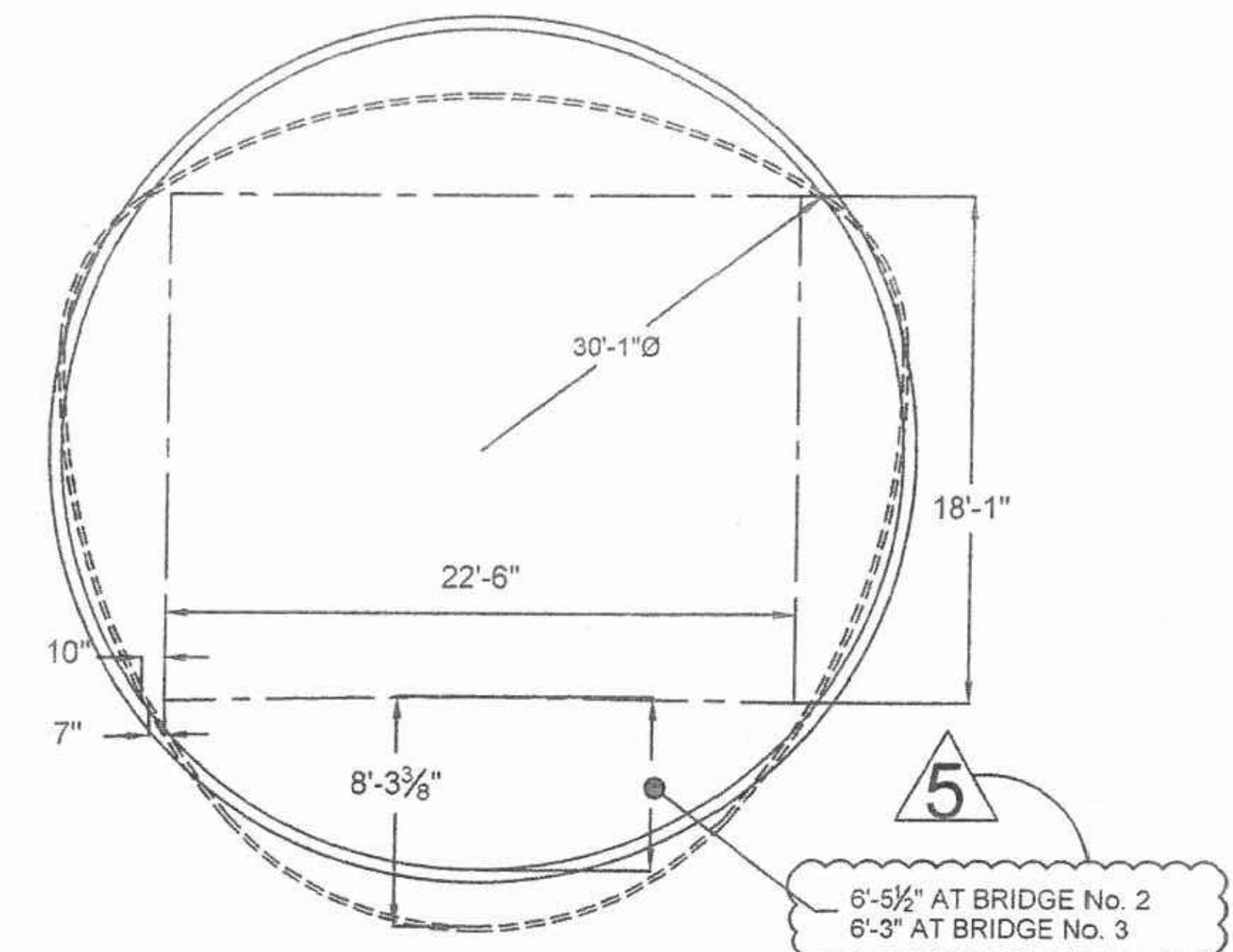
PROFILE #1 (QTY. OF 1)  
SCALE: 1" = 30'-0"



PROFILE #2 (QTY. OF 2)  
SCALE: 1" = 30'-0"



PROFILE #3 (QTY. OF 2)  
SCALE: 1" = 30'-0"



APPROX AREA = 711.6 SQ. FT.  
PLATE MAKE UP: 8 @ 9 S  
TOTAL = 72 S

NOTES:

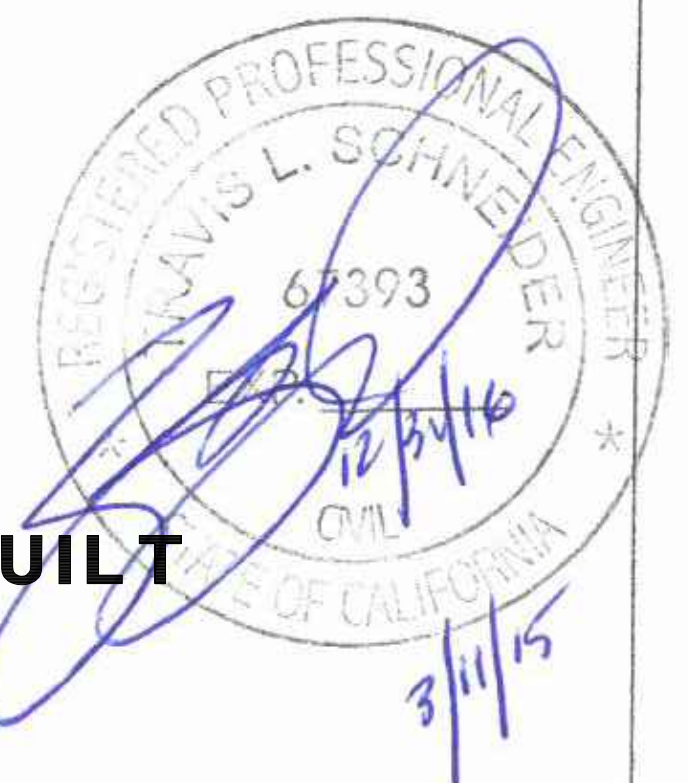
- 1) MEASUREMENTS ARE TO THE INSIDE CRESTS OF THE CORRUGATIONS.
- 2) DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- 3) CIRCUMFERENTIAL PLATE LENGTHS ARE IN TERMS OF S = 16 INCHES.

5 ACTUAL ELEVATIONS TO BE VERIFIED  
AND STAKED BY ORANGE COUNTY  
SURVEY PRIOR TO INSTALLATIONS.

30'-1"Ø BRIDGECOR ROUND PIPE  
SCALE: 1" = 10'-0"

AS-BUILT  
RE/SR: K. TRAN  
Date: 01/21/2017

AS-BUILT



BridgeCor

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| MARK | DATE      | REVISION DESCRIPTION               | BY  |
|------|-----------|------------------------------------|-----|
| 5    | 2/24/2015 | REVISIONS PER EOR COMMENTS         | SCC |
| 4    | 1/29/2015 | ADD. BACKFILL ZONE DETAIL.         | SCC |
| 3    | 1/7/2015  | REVISED PLATE LAYOUT AND NOTATIONS | SCC |
| 2    | 12/9/2014 | REVISED NOTES                      | SCC |
| 1    | 12/8/2014 | REVISED PROFILES/ELEVATIONS        | SCC |

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**CONTECH**  
STRUCTURAL PLATE

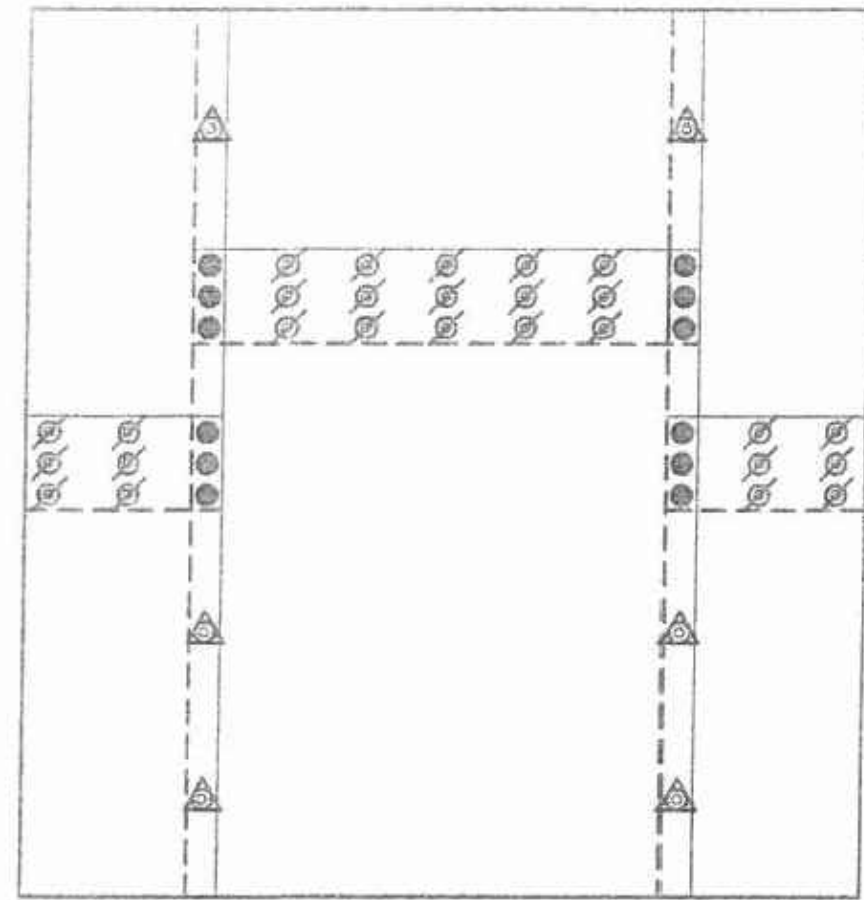
LA PATA AVENUE GAP  
SAN CLEMENTE, CA

PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

|                       |                  |                   |
|-----------------------|------------------|-------------------|
| PROJECT No.<br>447263 | SEQ. No.<br>001  | DATE<br>11/6/2014 |
| DESIGNED:<br>XXX      | DRAWN:<br>SCC    |                   |
| CHECKED:<br>SRT       | APPROVED:<br>XXX |                   |
| SHEET NO.<br>1        | OF<br>9          |                   |



1:MERLINPROJECTIVE\47263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG.DWG 2/24/2015 10:14 AM



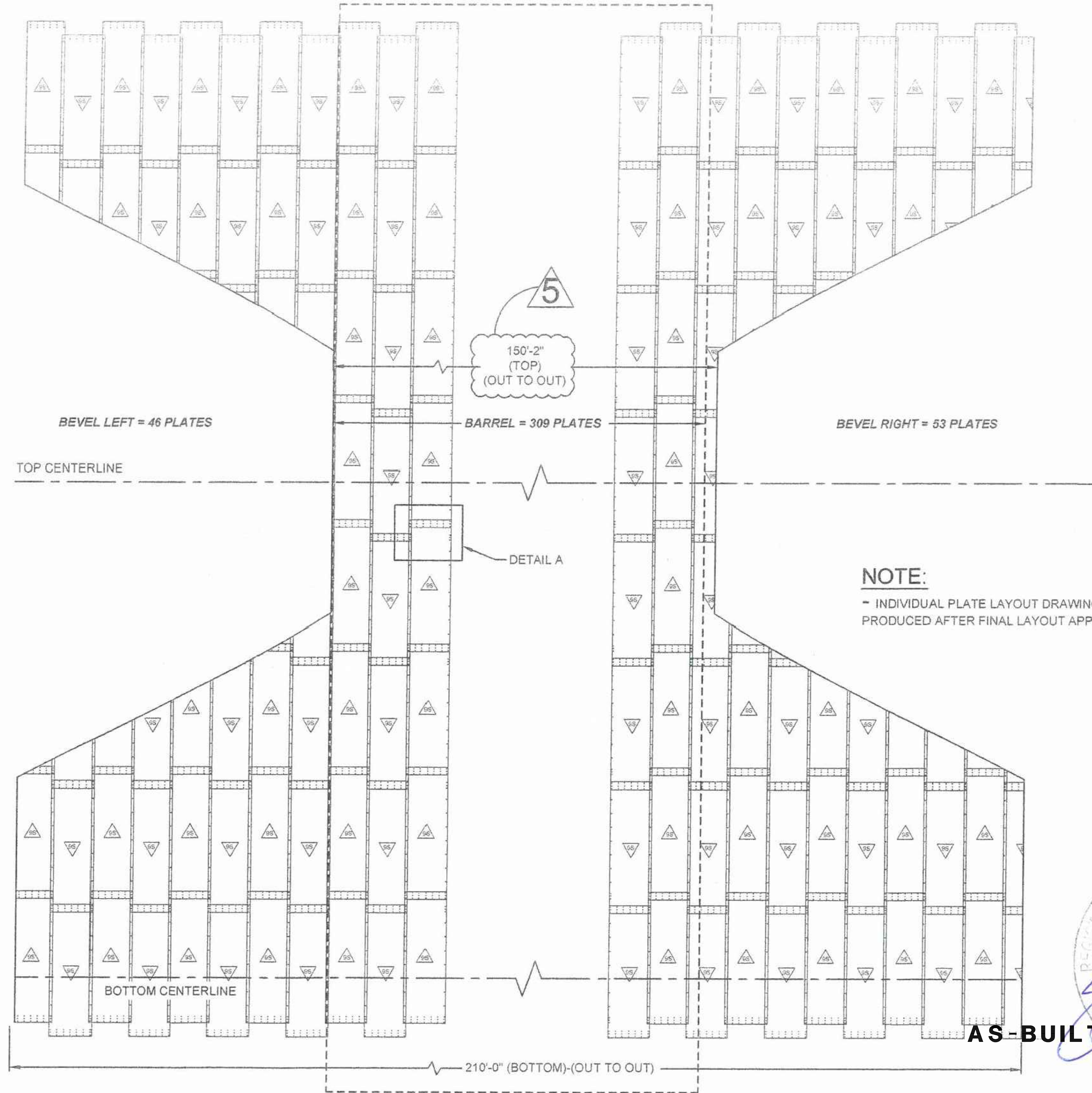
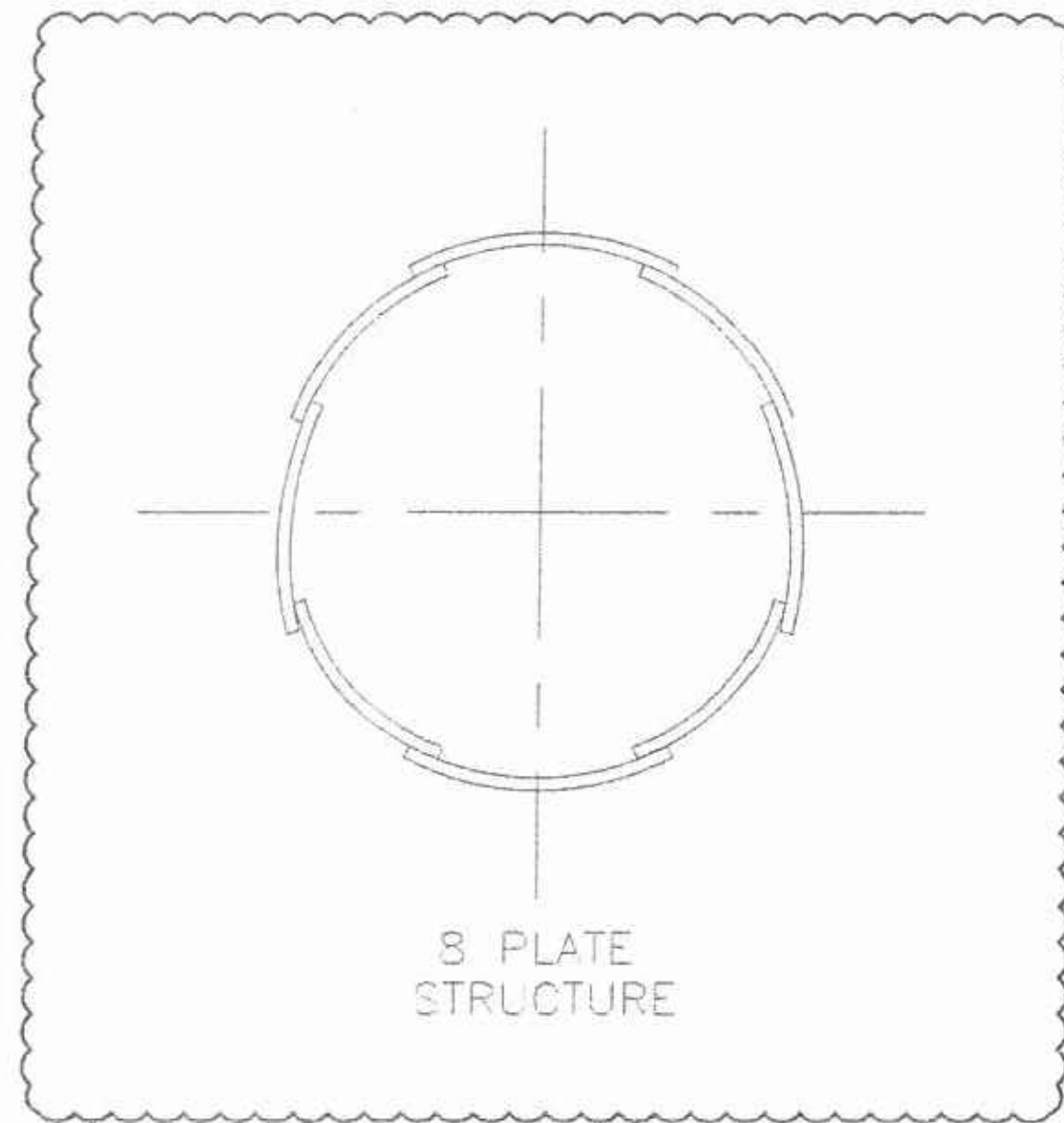
DETAIL "A"  
SCALE: N.T.S.

LEGEND: (TYPICAL FOR ALL LOCATIONS)

Ø = LONGITUDINAL-INTERNAL 1 3/4" LONG BOLT

● = 3-PLATE LAP JOINT 3" LONG

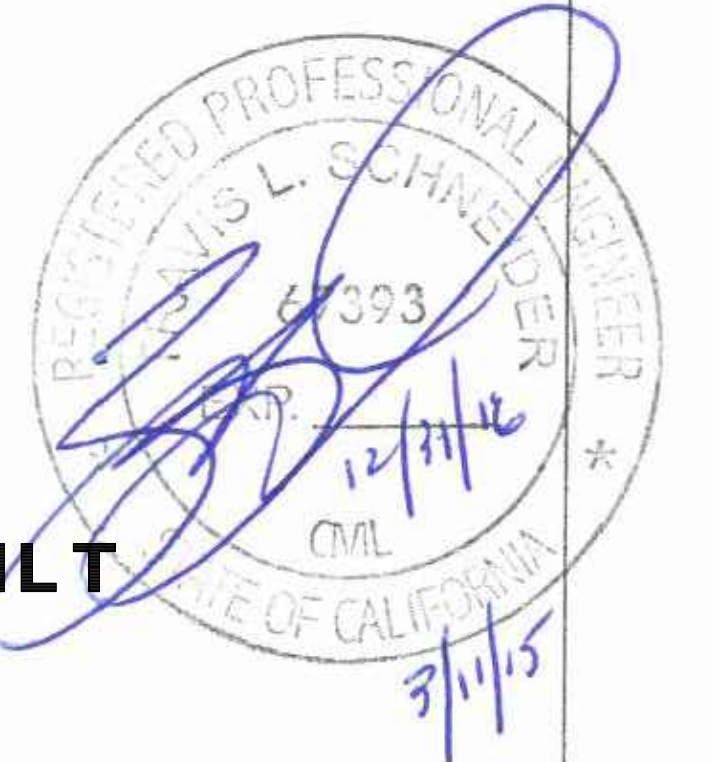
△ = CIRCUMFERENTIAL 2" LONG



NOTE:

INDIVIDUAL PLATE LAYOUT DRAWINGS TO BE PRODUCED AFTER FINAL LAYOUT APPROVAL.

AS-BUILT  
RE/SR: K. TRAN  
Date: 01/21/2017



(PROFILE #1) BRIDGECOR 30'-1"Ø ROUND PLATE LAYOUT (INSIDE VIEW) SCALE: N.T.S. PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

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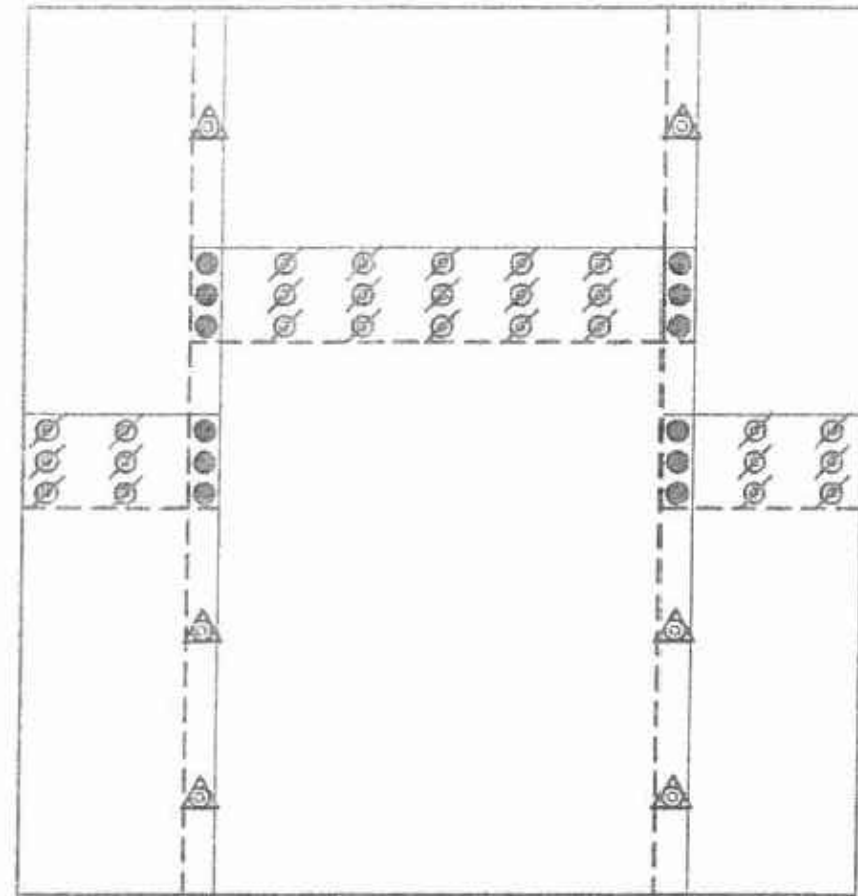
LA PATA AVENUE GAP

SAN CLEMENTE, CA

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| PROJECT No.:<br>447263 | SEQ. No.:<br>001 | DATE:<br>11/6/2014 |
| DESIGNED:<br>XXX       | DRAWN:<br>SCC    |                    |
| CHECKED:<br>SRT        | APPROVED:<br>XXX |                    |
| SHEET NO.:<br>2        | OF<br>9          |                    |



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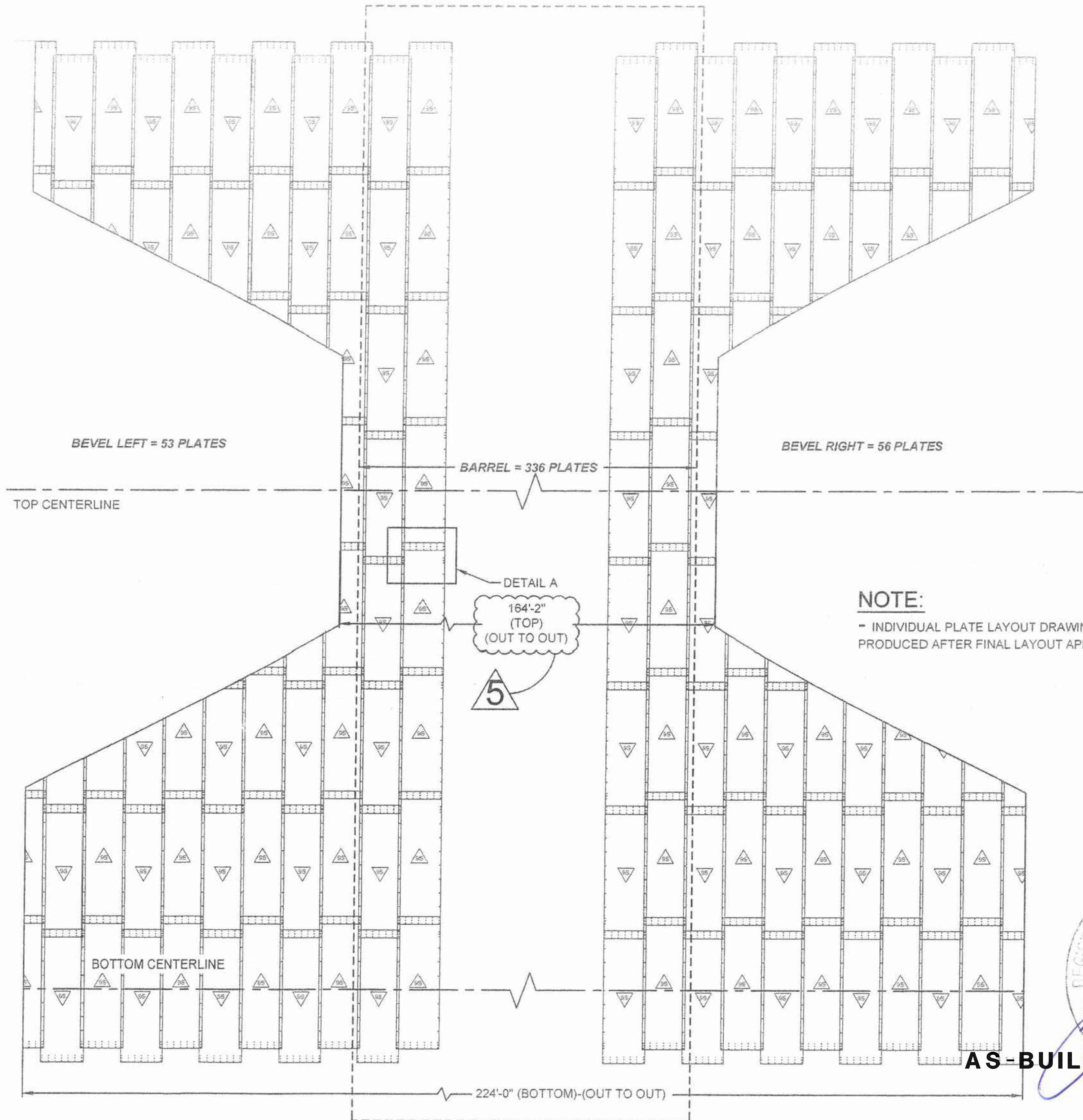
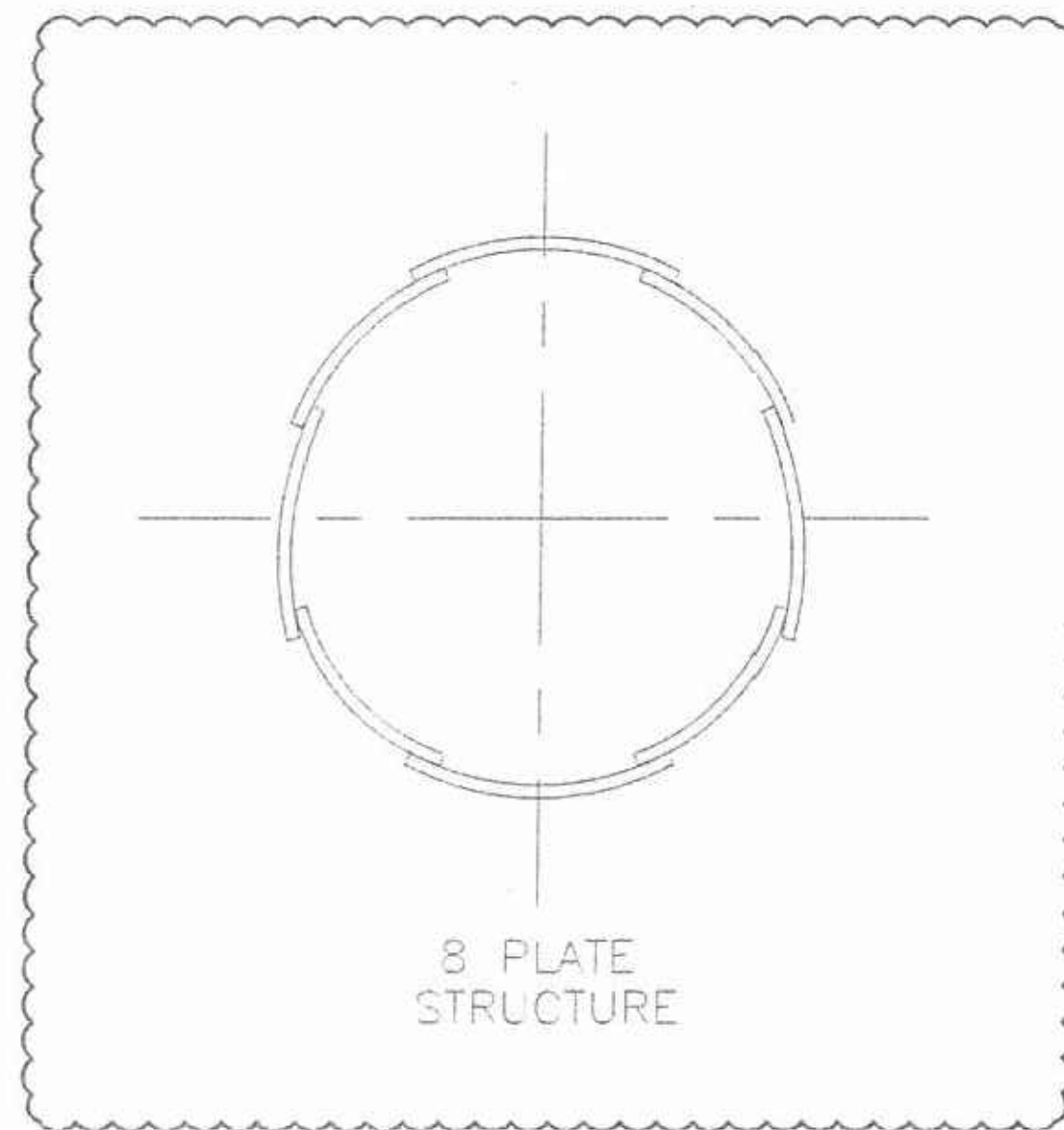
DETAIL "A"  
SCALE: N.T.S.

LEGEND: (TYPICAL FOR ALL LOCATIONS)

Ø = LONGITUDINAL-INTERNAL 1 3/4" LONG BOLT

● = 3-PLATE LAP JOINT 3" LONG

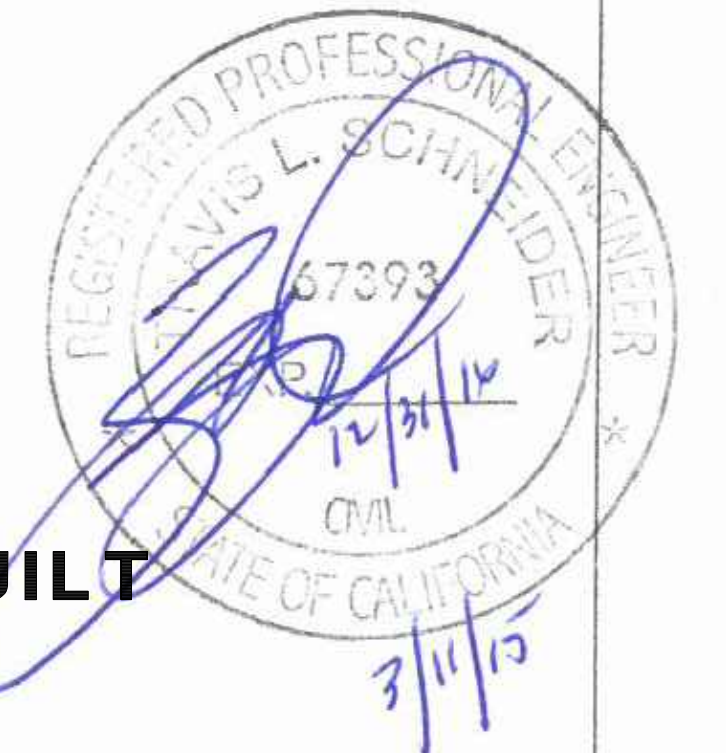
△ = CIRCUMFERENTIAL 2" LONG



NOTE:

- INDIVIDUAL PLATE LAYOUT DRAWINGS TO BE PRODUCED AFTER FINAL LAYOUT APPROVAL.

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RE/SR: K. TRAN  
Date: 01/21/2017



AS-BUILT

BridgeCor

(PROFILE #2) BRIDGECOR 30'-1"Ø ROUND PLATE LAYOUT (INSIDE VIEW)

SCALE: N.T.S. PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

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STRUCTURAL PLATE

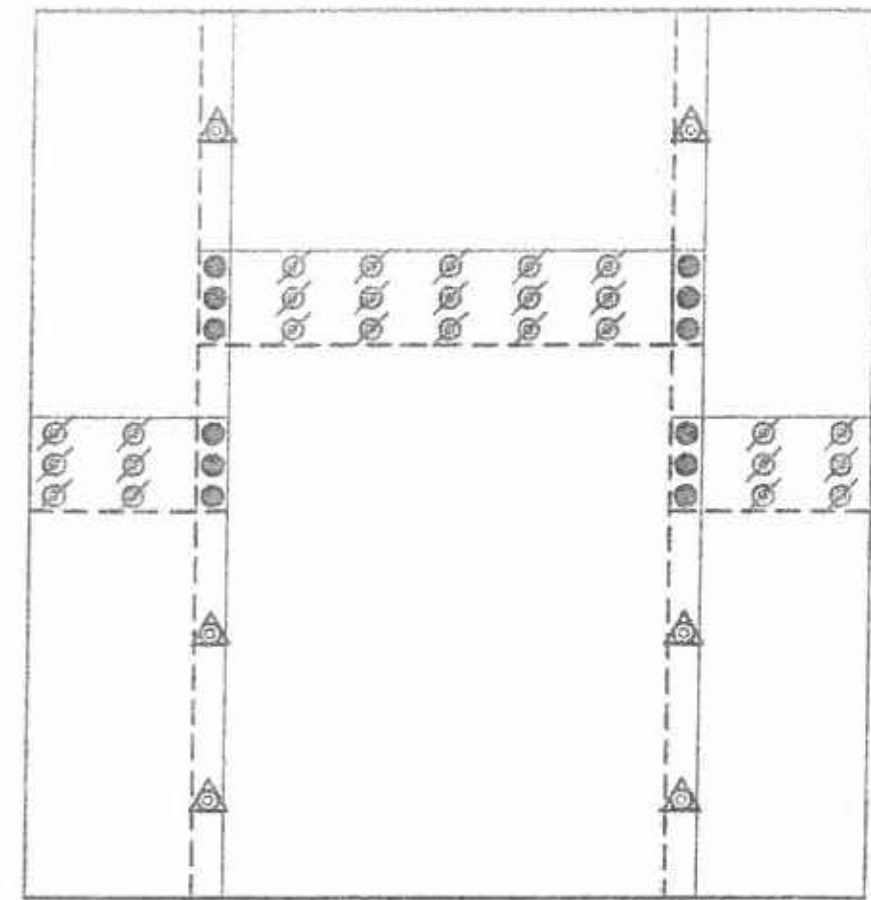
LA PATA AVENUE GAP

SAN CLEMENTE, CA

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|-------------|-----------|-----------|
| PROJECT No: | SEQ No:   | DATE:     |
| 447263      | 001       | 11/6/2014 |
| DESIGNED:   | DRAWN:    |           |
| XXX         | SCC       |           |
| CHECKED:    | APPROVED: |           |
| SRT         | XXX       |           |
| SHEET NO:   | 3         | OF 9      |



INTERLINE PROJECT: 200447263-1-SUPERS/ANDRAWINGS/PROPOSAL/447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG.DWG 2/24/2015 10:15 AM



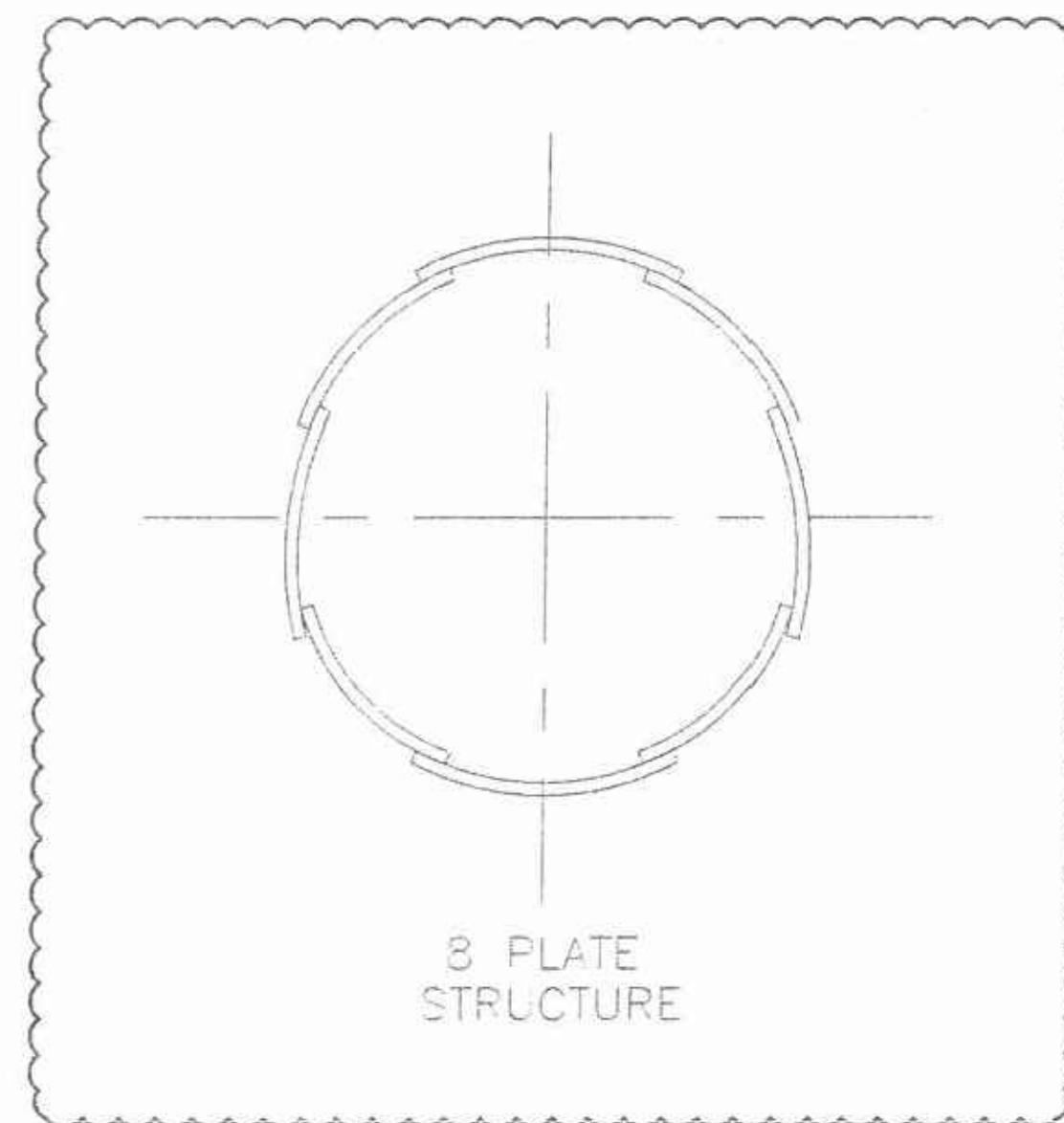
DETAIL "A"  
SCALE: N.T.S.

LEGEND: (TYPICAL FOR ALL LOCATIONS)

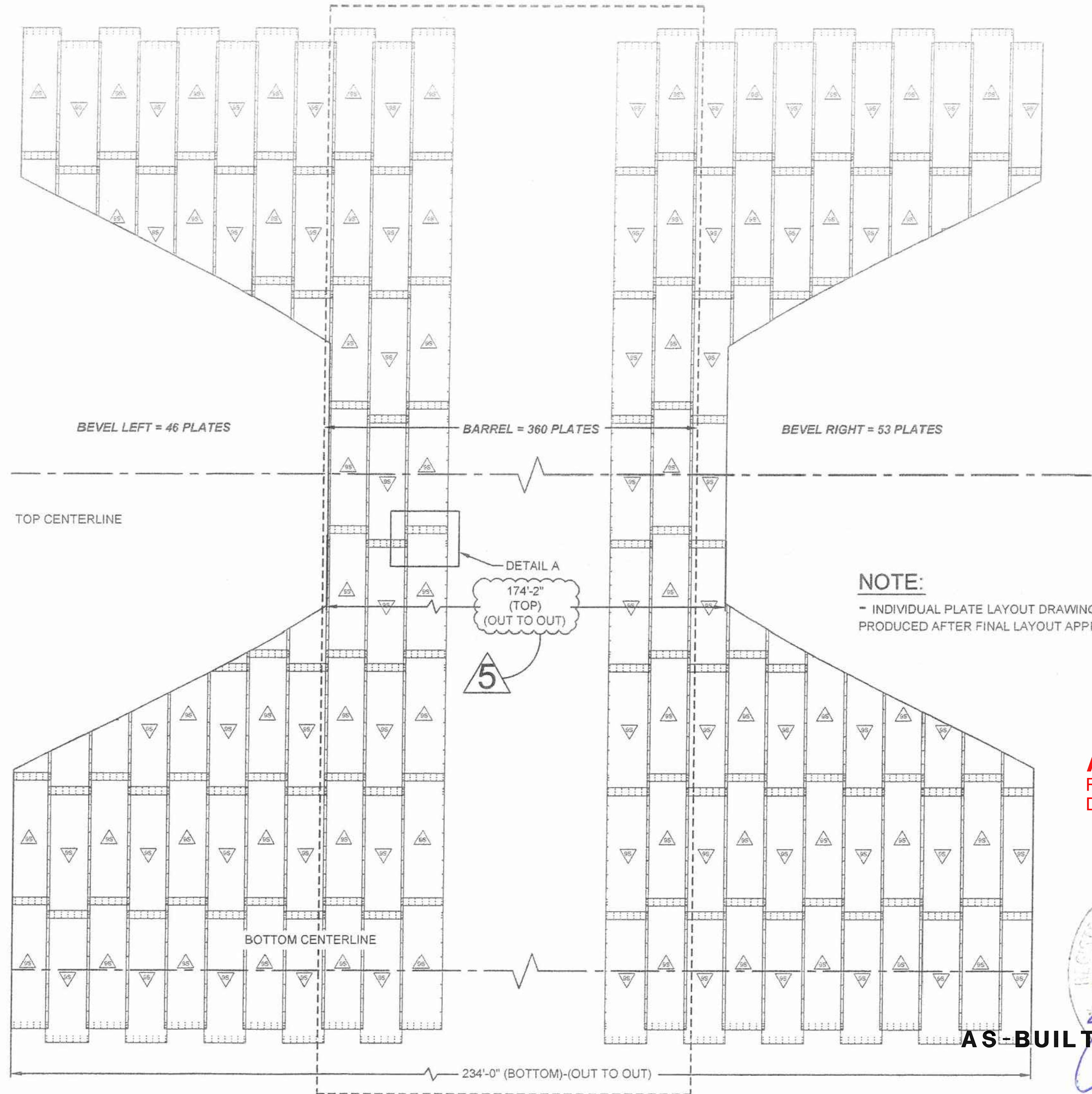
Ø = LONGITUDINAL-INTERNAL 1 3/4" LONG BOLT

● = 3-PLATE LAP JOINT 3" LONG

△ = CIRCUMFERENTIAL 2" LONG



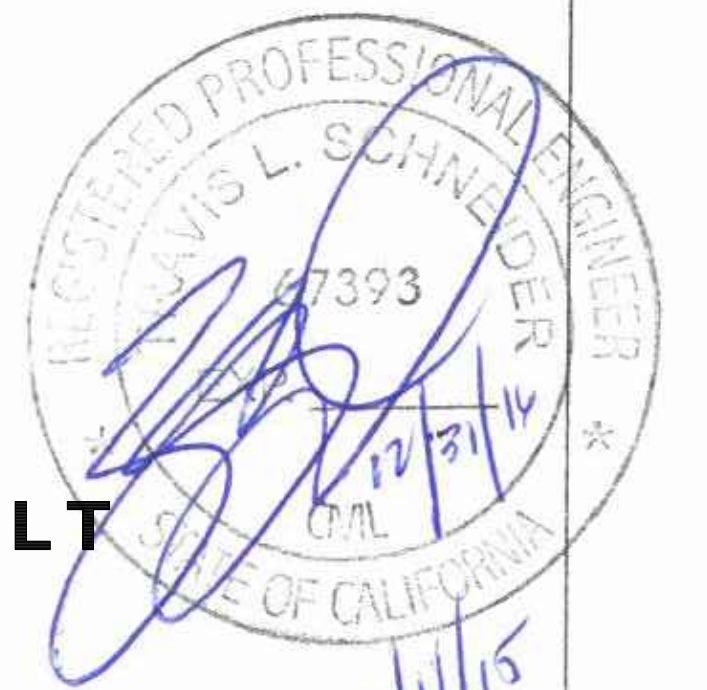
8 PLATE  
STRUCTURE



NOTE:

- INDIVIDUAL PLATE LAYOUT DRAWINGS TO BE  
PRODUCED AFTER FINAL LAYOUT APPROVAL.

**AS-BUILT**  
RE/SR: K. TRAN  
Date: 01/21/2017



(PROFILE #3) BRIDGECOR 30'-1"Ø ROUND PLATE LAYOUT (INSIDE VIEW) SCALE: N.T.S. PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

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| 2    | 12/9/2014 | REVISED NOTES                      | SCC |
| 1    | 12/8/2014 | REVISED PROFILES/ELEVATIONS        | SCC |

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STRUCTURAL PLATE

LA PATA AVENUE GAP

SAN CLEMENTE, CA

|                        |                  |                    |
|------------------------|------------------|--------------------|
| PROJECT No.:<br>447263 | SEQ No.<br>001   | DATE:<br>11/6/2014 |
| DESIGNED:<br>XXX       | DRAWN:<br>SCC    |                    |
| CHECKED:<br>SRT        | APPROVED:<br>XXX |                    |
| SHEET NO.:<br>4        | OF<br>9          |                    |



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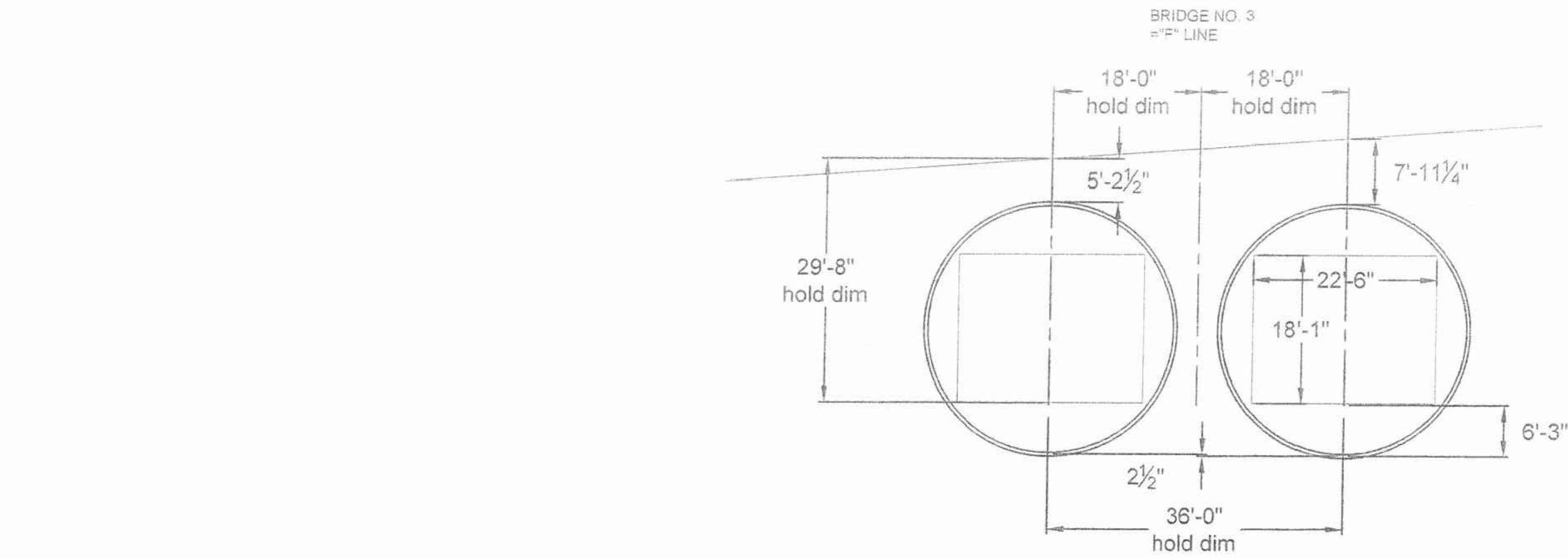
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SAN CLEMENTE, CA

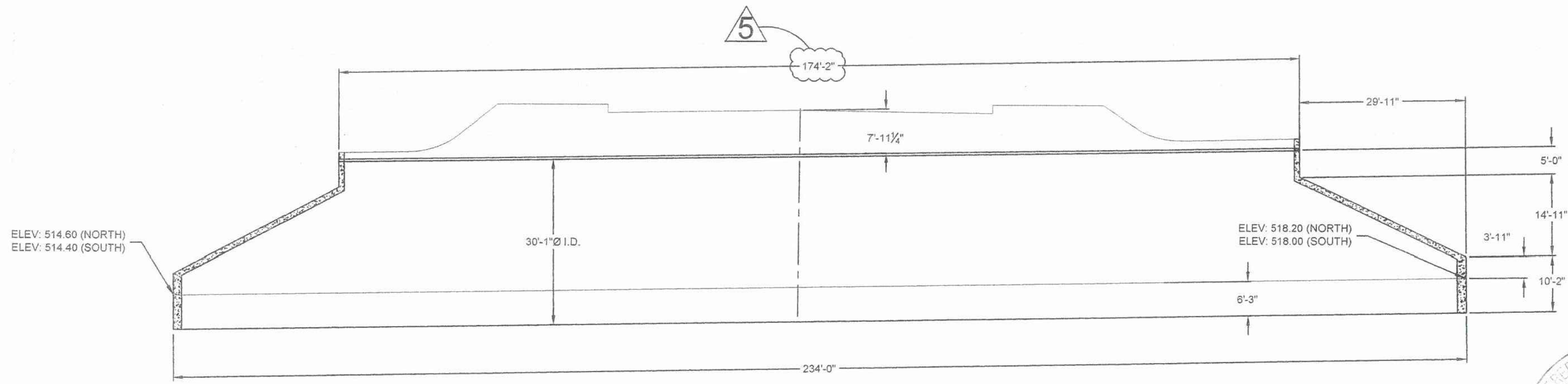
LA PATA AVENUE GAP  
SAN CLEMENTE, CA

| PROJECT No. | SEQ. No. | DATE          |
|-------------|----------|---------------|
| 447263      | 001      | 11/6/2014     |
| DESIGNED:   | XXX      | SCC           |
| CHECKED:    | SRT      | APPROVED: XXX |
| SHEET NO.   | 5        | OF 9          |



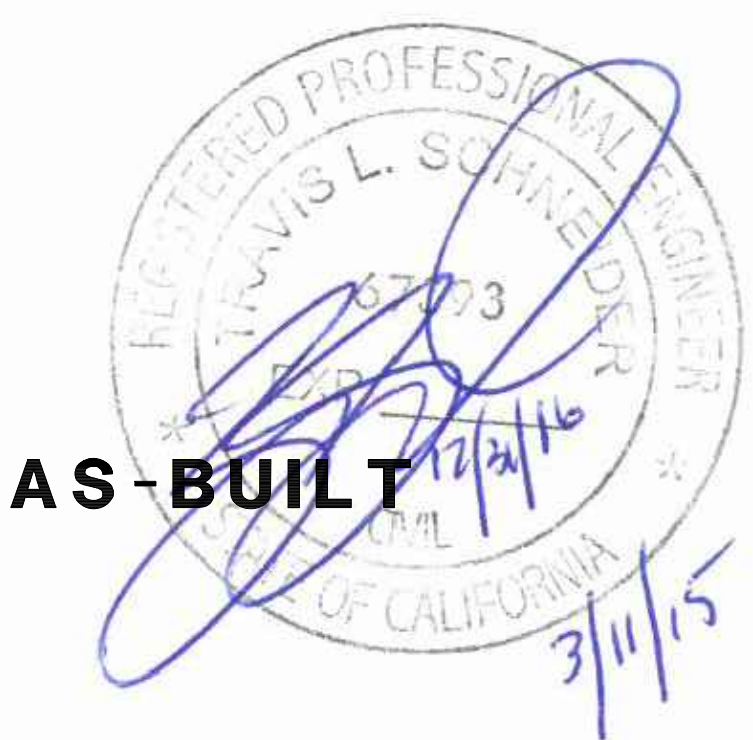
NOTES:

- 1) FOR DETAILS NOT SHOWN, SEE CONTRACT PLAN SHEET 255.
- 2) ADJUST CONCRETE HEADWALL, COLLAR, WINGWALLS, CURBS, ROADWAY FILL, PERFORATED PIPE DRAIN AND OTHER ELEMENTS NOT SHOWN TO FIT THE DCSP STRUCTURE.
- 3) FOR DETAILS OF CONCRETE COLLAR AND HEADWALL, SEE SHEET 257.
- 4) CONSTRUCTION SEQUENCING TO BE COVERED IN PRECONSTRUCTION MEETINGS.
- 5) ROADWAY ELEVATIONS FOR THE SOUTHERLY OPERATIONS EQUIPMENT ACCESS ROAD ARE FROM PLAN SHEET ST-34.



PROFILE STA 126+15.34 (XS-37)  
SCALE: 1" = 20'-0"

AS-BUILT  
RE/SR: K. TRAN  
Date: 01/21/2017



AS-BUILT

PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG















SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CONTECH BRIDGECOR ROUND STRUCTURE

I - GENERAL

1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS - All standards refer to latest edition unless otherwise noted.
- 1.1.1 ASTM A-761 "Corrugated Steel Structural Plate, Zinc Coated for Field-Bolted Pipe, Pipe-Arches and Arches" (AASHTO Designation M-167).
- 1.1.2 AASHTO LRFD Design Specification for Highway Bridges - Section 12.
- 1.1.3 AASHTO LRFD Construction Specification for Highway Bridges - Section 26.
- 1.2 DEFINITIONS
- 1.2.1 Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.
- 1.2.2 Manufacturer - In these specifications the word "Manufacturer" shall mean CONTECH Engineered Solutions, LLC 800-338-1122
- 1.2.3 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- 1.2.4 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.
- 1.2.5 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

2.0 GENERAL CONDITIONS

- 2.1 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described herein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.
- 2.2 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.
- If conditions other than those indicated are discovered by the Contractor, the Owner shall be notified immediately. The material which the Contractor believes to be a changed condition shall not be disturbed so that the owner can investigate the condition.
- 2.3 The construction shall be performed under the direction of the Engineer.
- 2.4 All aspects of the structure design and site layout including foundations, backfill, end treatments and necessary scour consideration shall be performed by the Engineer.
- Any installation guidance provided herein shall be endorsed by the Engineer or superseded by the Engineer's plans and specifications.

II - CONTECH BRIDGECOR ROUND PIPE STRUCTURE

1.0 GENERAL

- 1.1 Manufacturer shall fabricate the Round Pipe as shown on the plans. Fabrication shall conform to the requirements of ASTM A-761 and shall consist of plates, fasteners, and appurtenant items.
- Plate thickness, end treatment and type of invert and foundation shall be as indicated on the plans. All manufacturing processes including corrugating, punching, curving and required galvanizing shall be performed within the United States of America.
- 1.2 The contractor shall verify all field dimensions and conditions prior to ordering materials.

2.0 DIMENSIONS

- 2.1 The proposed structure shall be a CONTECH BRIDGECOR ( 72 ) with the following dimensions:
- Span (Diameter): 30'-1"
- Gage: 8
- 2.2 All plan dimensions on the contract drawings are measured in a true horizontal plan unless otherwise noted.

3.0 ASSEMBLY AND INSTALLATION

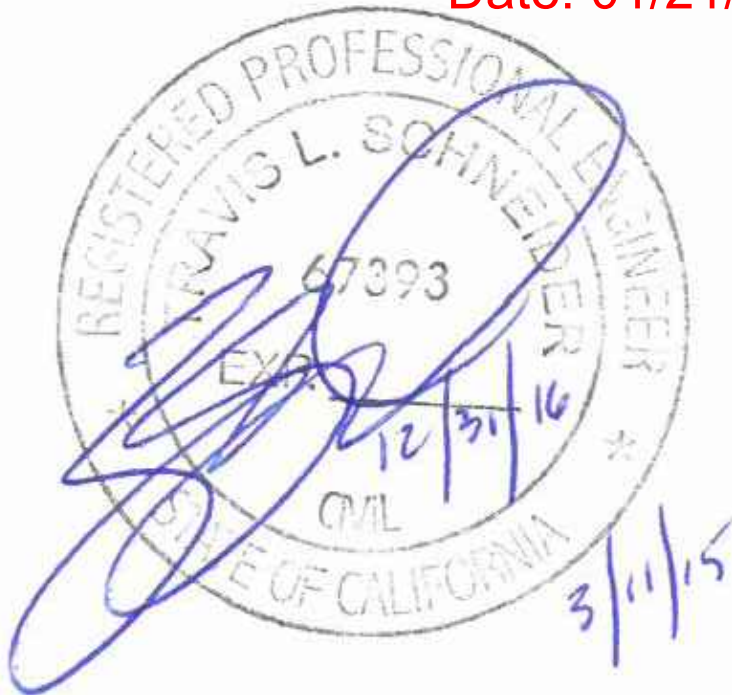
- 3.1 Bolts and nuts shall conform to the requirements of ASTM A-449. The CONTECH BRIDGECOR Round Pipe shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations.
- Bolts shall be tightened using an applied torque of between 100 and 300 ft.-lbs.
- 3.2 The 72S Round Pipe shall be installed in accordance with the plans and specifications, special provisions, the manufacturer's recommendations, and AASHTO LRFD Specification for Highway Bridges - Section 26.
- 3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.
- 3.4 Bedding preparation is critical to both structure performance and service life. The bed should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.
- 3.5 Adequate soil bearing capacity or strength shall be provided to the Engineer. Foundation details shall be provided by the Engineer.
- 3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unloading and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.
- The structure shell shall be assembled on the invert starting at the outlet end. Circumferential seams shall be installed with the plate laps shingled downstream as viewed from the inside of the structure.
- The structure shall be backfilled using clean well graded granular material that meets the requirements of AASHTO M-145 for soil classifications A-1.
- Backfill must be placed symmetrically on each side of the structure in 6 to 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180
- 3.7 Construction loads that exceed highway load limits are not allowed to cross the structure without approval from the Engineer.
- Normal highway traffic is not allowed to cross the structure until the structure has been backfilled and paved. If the road is unpaved, cover allowance to accommodate rutting shall be as directed by the Engineer.



| GROUP CLASSIFICATION                                     | A-1-a                           | A-1-b   |
|----------------------------------------------------------|---------------------------------|---------|
| Sieve Analysis Percent Passing                           |                                 |         |
| No. 10 (2.000 mm)                                        | 50 max.                         | ----    |
| No. 40 (0.425 mm)                                        | 30 max.                         | 50 max. |
| No. 100 (0.150 mm)                                       | ----                            | ----    |
| No. 200 (0.075 mm)                                       | 15 max.                         | 25 max. |
| Atterberg Limits for Fraction Passing No., 40 (0.425 mm) |                                 |         |
| Liquid Limits                                            | ----                            | ----    |
| Plasticity Index                                         | 6 max.                          | 6 max.  |
| Usual Materials                                          | Stone Fragment, Gravel and Sand |         |

NOTE: Atterberg Limits are modified to provide material that are primarily granular  
\* Fine beach sands, windblown sands, stream deposited sands, etc., exhibiting fine, rounded particles excluded.

AS-BUILT  
RE/SR: K. TRAN  
Date: 01/21/2017



BridgeCor

PRE-447263-001-BCORR-PRE-F-PROFILE END PLAN LINE WORK DWG

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| MARK | DATE      | REVISION DESCRIPTION               | BY  |
|------|-----------|------------------------------------|-----|
| 5    | 2/24/2015 | REVISIONS PER EOR COMMENTS         | SCC |
| 4    | 1/29/2015 | ADD. BACKFILL ZONE DETAIL.         | SCC |
| 3    | 1/7/2015  | REVISED PLATE LAYOUT AND NOTATIONS | SCC |
| 2    | 12/9/2014 | REVISED NOTES                      | SCC |
| 1    | 12/8/2014 | REVISED PROFILES/ELEVATIONS        | SCC |

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**CONTECH**  
STRUCTURAL PLATE

LA PATA AVENUE GAP  
SAN CLEMENTE, CA

|             |           |           |
|-------------|-----------|-----------|
| PROJECT No. | SEQ. No.  | DATE      |
| 447263      | 001       | 11/6/2014 |
| DESIGNED:   | DRAWN:    |           |
| XXX         | SCC       |           |
| CHECKED:    | APPROVED: |           |
| SRT         | XXX       |           |
| SHEET NO.   | 9 OF 9    |           |