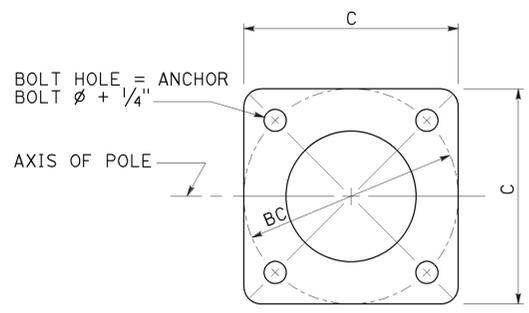
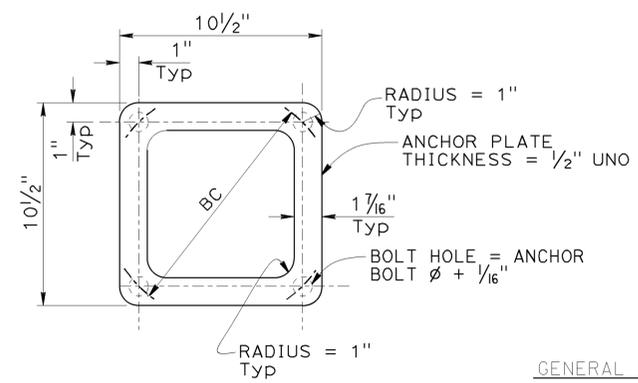


TYPE 15 (MOD) BRIDGE MOUNTED ELEVATION

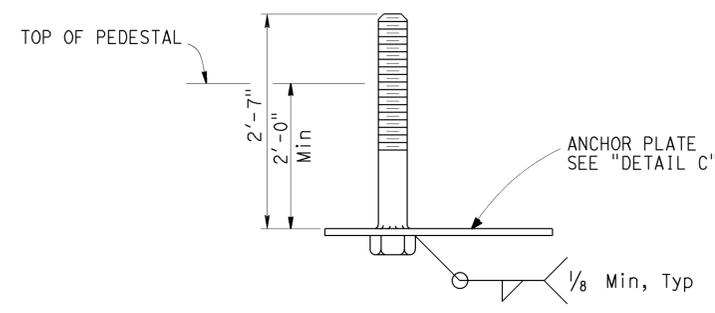
NOTE: Bridge and Lighting Pedestal configuration may vary.



BASE PLATE DETAIL A



ANCHOR PLATE DETAIL C



ELECTROLIER ANCHORAGE (MODIFIED) DETAIL B

GENERAL NOTES:

SPECIFICATIONS:

Design: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Fifth Edition.

LOADING

Wind Loading: (3-sec gust) 100 Mph

UNIT STRESSES

Structural steel: fy = 55,000 psi (Tapered steel tube and anchor bolts)
fy = 50,000 psi unless otherwise noted

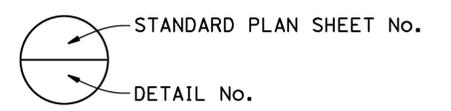
NOTES:

- For pole locations, see "ELECTRICAL" plans.
- All steel shall be galvanized after fabrication.
- During pole erection the pole shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
- Handhole must face fence.
- For Anchor details not shown see "DETAIL A" on "2010 STANDARD PLANS" RSP ES-7M.
- This plan accurate only for lighting pole and anchorage. For bridge and lighting pedestal details see "BRIDGE PLANS".
- For details not shown, see "2010 STANDARD PLANS" and "2010 REVISED STANDARD PLANS."

POLE TYPE	POLE DATA				BASE PLATE DATA				LUMINAIRE MAST ARM DATA				
	A HEIGHT	Min OD		THICKNESS	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	M PROJECTED LENGTH	N RISE	Min OD AT POLE	THICKNESS	P
		BASE	TOP										
15 (MODIFIED)	15'-0"	8"	5 13/16"	0.1196"	1'-0"	1'-0"	2"	1" Ø x 2'-7"	4'-9"	1'-6"±	3/4"	0.1196"	16'-0"±

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

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016



BRANCH CHIEF JEFF WOODY	DESIGN BY J. JAUREGUI	CHECKED E. LOPEZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE NO. 50-0518	KERN AVENUE PEDESTRIAN OC TYPE 15 MODIFIED - DETAILS	SES-1
	DETAILS BY T. NGUYEN	CHECKED J. JAUREGUI			POST MILE 49.6		
(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3619	PROJECT NUMBER & PHASE: 0614000266-1	CONTRACT NO.: 06-0H6424	REVISION DATES

USERNAME => S129055 DATE PLOTTED => 24-AUG-2016 TIME PLOTTED => 10:01

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	56	106

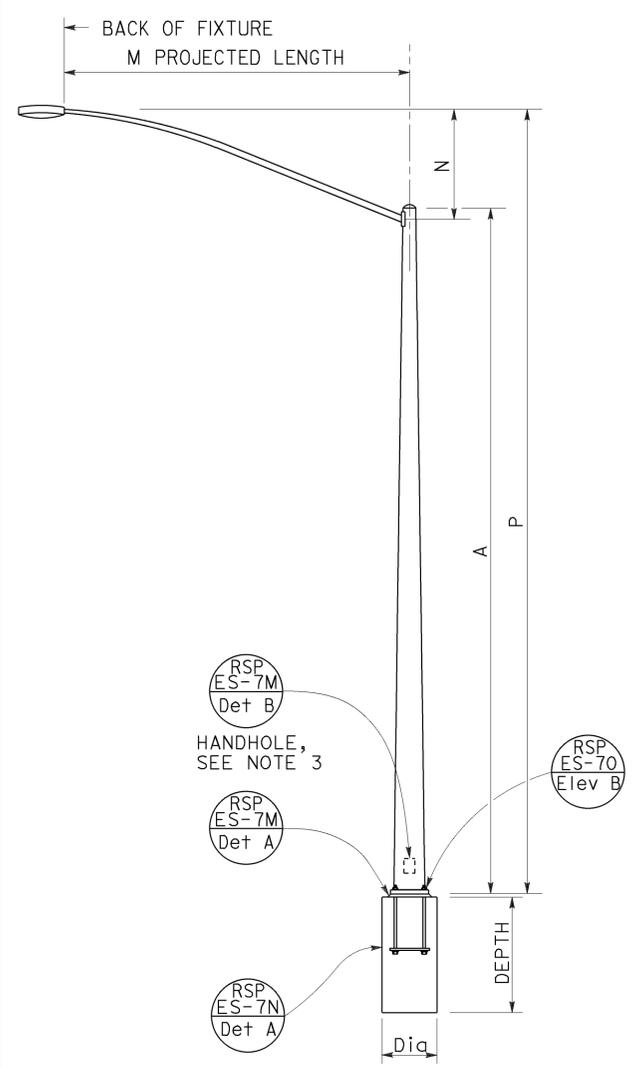
Stanley P. Johnson
REGISTERED CIVIL ENGINEER

July 15, 2016
PLANS APPROVAL DATE

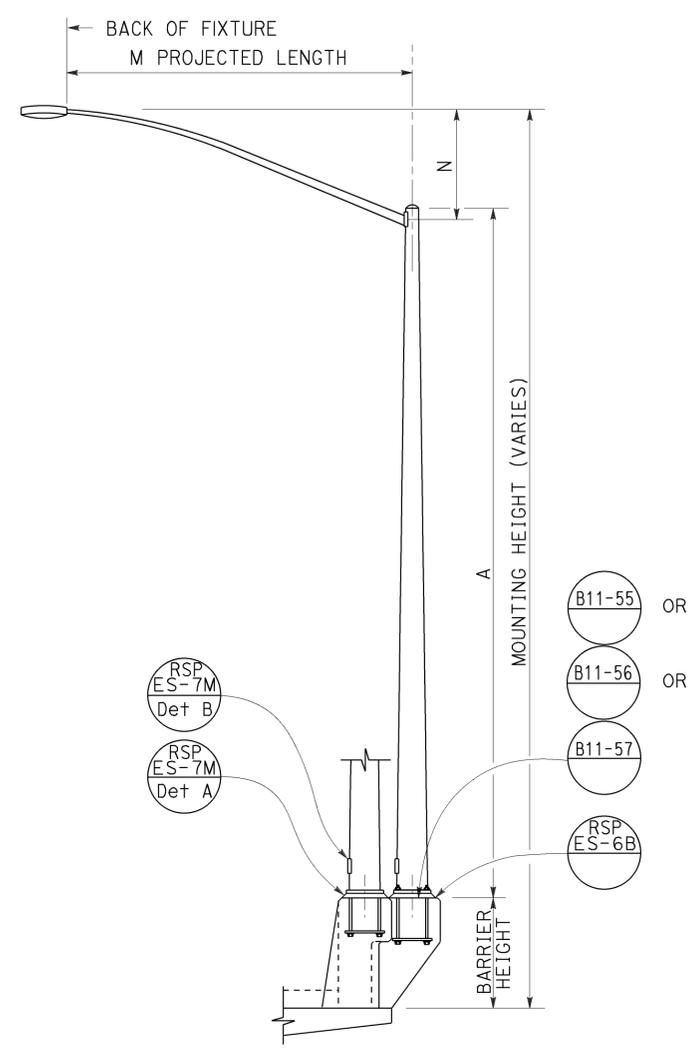
Stanley P. Johnson
REGISTERED PROFESSIONAL ENGINEER
No. C57793
Exp. 3-31-18
CIVIL
STATE OF CALIFORNIA

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.

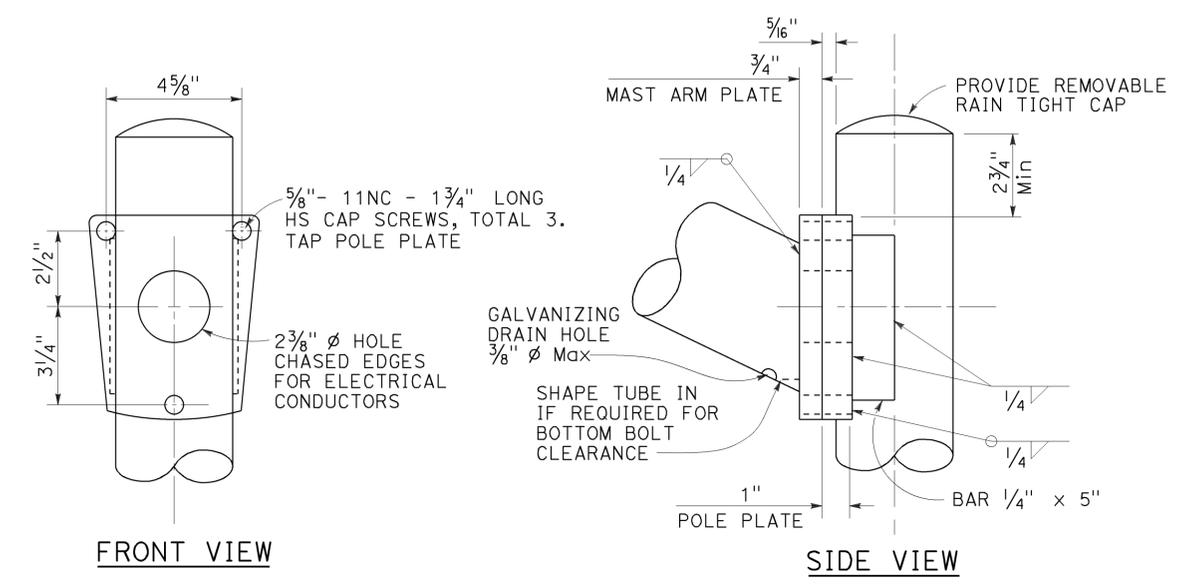
TO ACCOMPANY PLANS DATED 11-16-15



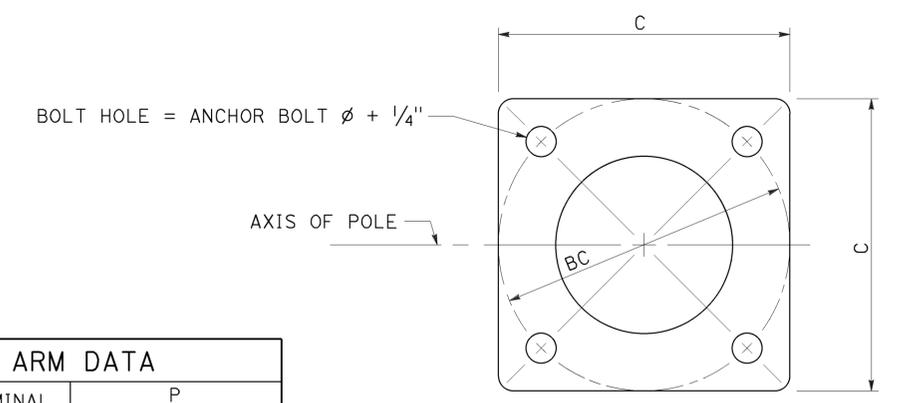
**TYPE 15 AND TYPE 21
ELEVATION A**



**TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED
ELEVATION B**



**LUMINAIRE MAST ARM CONNECTION
DETAIL R**



**BASE PLATE
DETAIL A**

POLE TYPE	POLE DATA			BASE PLATE DATA			CIDH PILE FOUNDATION		
	A HEIGHT	Min OD BASE	WALL THICKNESS TOP	C	BC = BOLT CIRCLE	THICKNESS	ANCHOR BOLT SIZE	Diq	DEPTH
15	30'-0"	8"	0.1196"	1'-0"	1'-0"	1 1/2"	1" Ø x 36" *	2'-6"	6'-0"
21	35'-0"	8 5/8"	0.1793"	1'-0"	1'-0"	2"	1 1/4" Ø x 36" *	2'-6"	7'-0"

* FOR BARRIER RAIL BOLTS, SEE REVISED STANDARD PLAN RSP ES-6B.

NOTES:

- Indicates mast arm length to be used unless otherwise noted on the plans.
- For Type 15-SB, use Type 15 standard with Type 30 slip base plate details, see Revised Standard Plan RSP ES-6F.
- Handhole shall be located on the downstream side of traffic.
- For additional notes and details, see Revised Standard Plans RSP ES-7M and RSP ES-7N.

LUMINAIRE MAST ARM DATA					
M PROJECTED LENGTH	N RISE	Min OD AT POLE	NOMINAL THICKNESS	P	
				TYPE 15	TYPE 21
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3 1/2"		32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"		32'-9"±	37'-9"±
12'-0"	4'-3"±	4"		33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"		34'-3"±	39'-3"±

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LIGHTING STANDARD,
TYPES 15 AND 21)**

NO SCALE

RSP ES-6A DATED JULY 15, 2016 SUPERSEDES STANDARD PLAN ES-6A DATED OCTOBER 30, 2015 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP ES-6A

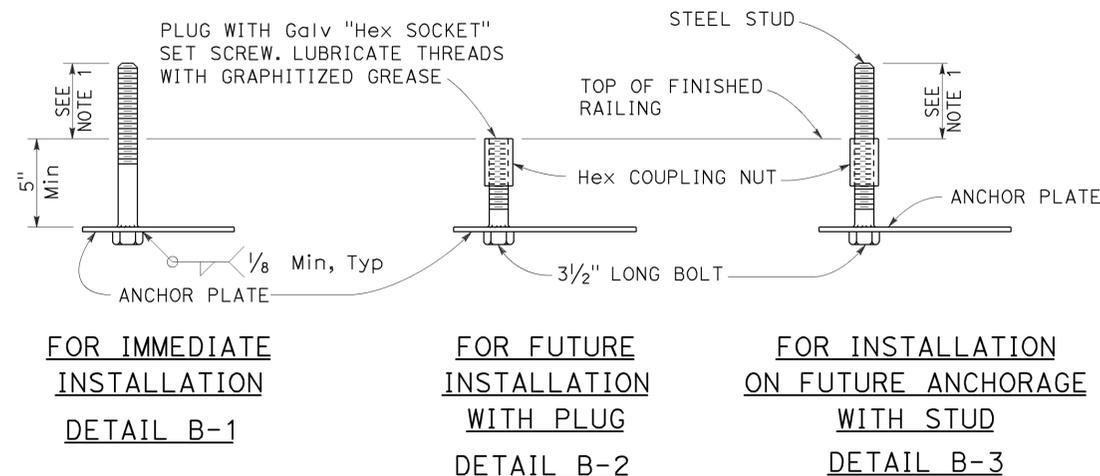
2015 REVISED STANDARD PLAN RSP ES-6A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	56A	106

Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 July 15, 2016
 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
 Stanley P. Johnson
 No. C57793
 Exp. 3-31-18
 CIVIL
 STATE OF CALIFORNIA

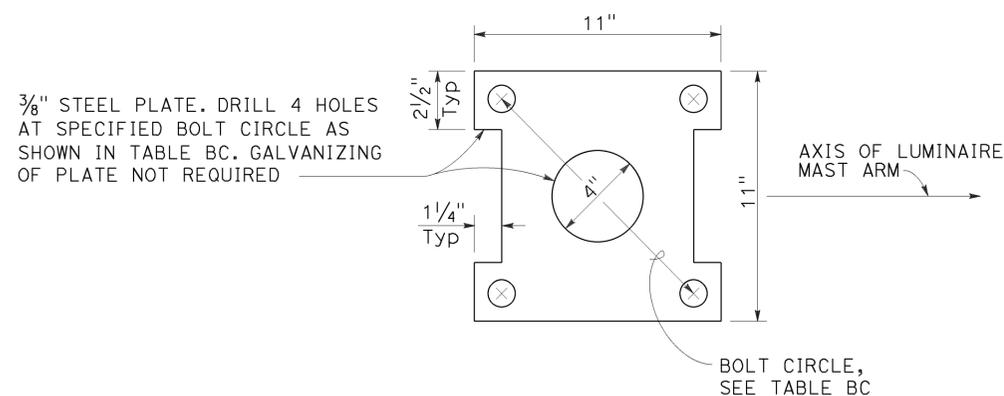
TO ACCOMPANY PLANS DATED 11-16-15



ELECTROLIER ANCHORAGES
DETAIL B

NOTES:

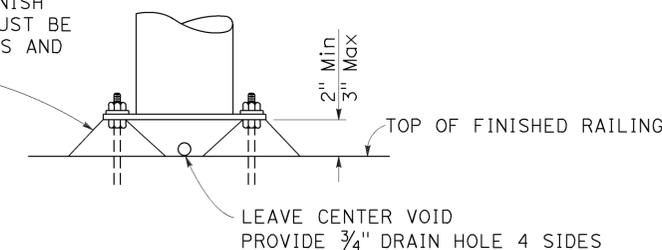
1. Anchor bolt or stud length shall be such that thread extends 1/2" maximum above nut on level base plate after grouting. See Detail N.
2. Electrolier anchor bolts shall be held in position for pouring by means of anchor plates and suitable templates. Deviation from the true position, vertical and height shall not exceed 1/16".
3. See railing sheets for reinforcement and structural details at electroliers and pull boxes.



ANCHOR PLATE
DETAIL A

TABLE BC				
TYPE	BC = BOLT CIRCLE	ANCHOR BOLT DIAMETER	COUPLING NUT BASIC LENGTH	SET SCREW LENGTH DETAIL B-2
15	1'-0"	1"	3"	1 1/2"
21		1 1/4"	3 3/4"	1 7/8"

AFTER PLUMBING STANDARD, PLACE MORTAR ALL AROUND BOLTS. FINISH AT A 45° SLOPE, EXCEPT IT MUST BE VERTICAL DROP IN PAVED AREAS AND ON TOP OF BRIDGE RAIL



GROUTING AT ELECTROLIER
DETAIL N

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(ELECTROLIER ANCHORAGE AND
GROUTING FOR
TYPE 15 AND TYPE 21
BARRIER RAIL MOUNTED)

NO SCALE

RSP ES-6B DATED JULY 15, 2016 SUPERSEDES STANDARD PLAN ES-6B
DATED OCTOBER 30, 2015 - PAGE 450 OF THE STANDARD PLANS BOOK DATED 2015.

4" x 6 1/2" ROUNDED RECTANGLE HANDHOLE REINFORCED WITH RING WELDED TO OUTSIDE OF POLE. SEE NOTE 4, 1/8" COVER PLATE

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

IDENTIFICATION NUMBER

1. Attach a stamped metal tag with pole's identification number above the handhole. 1/4" high number, minimum.
2. Attach a stamped metal tag with mast arm's identification number to the bottom of the signal mast arm near the pole plate. 1/4" high number, minimum.

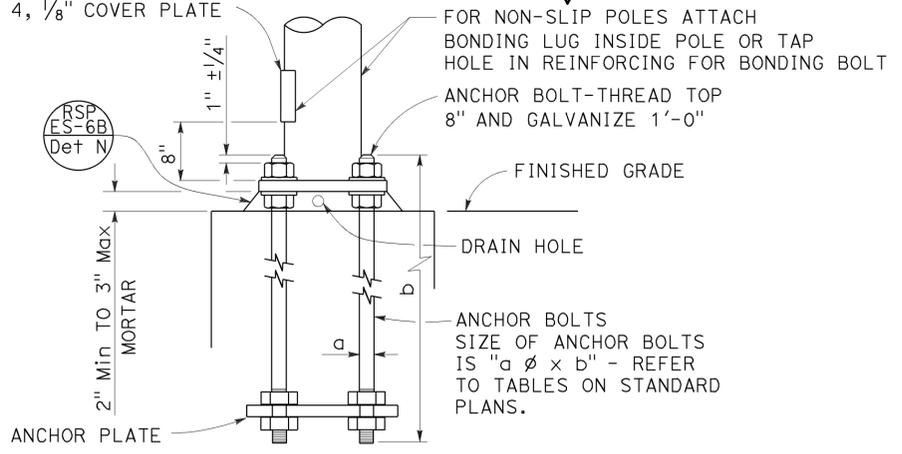
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	57	106

Stanley P. Johnson
REGISTERED CIVIL ENGINEER

July 15, 2016
PLANS APPROVAL DATE

Stanley P. Johnson
REGISTERED PROFESSIONAL ENGINEER
No. C57793
Exp. 3-31-18
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 11-16-15

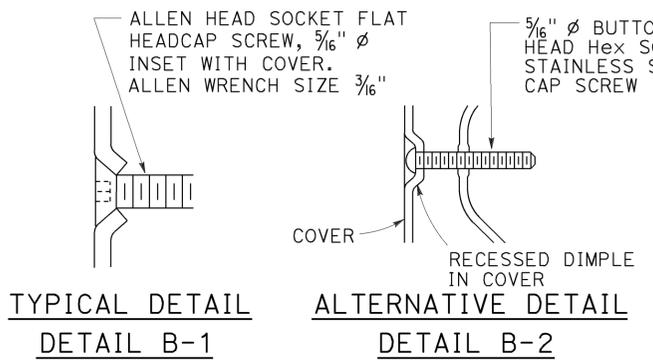


**HANDHOLE AND ANCHORAGE
DETAIL A**

Type Load case (Use SL for special load case) Design wind velocity (mph) Signal mast arm length (ft) Standard plan year Only for poles or mast arms using Detail F Only for poles or mast arms using RSP ES-70

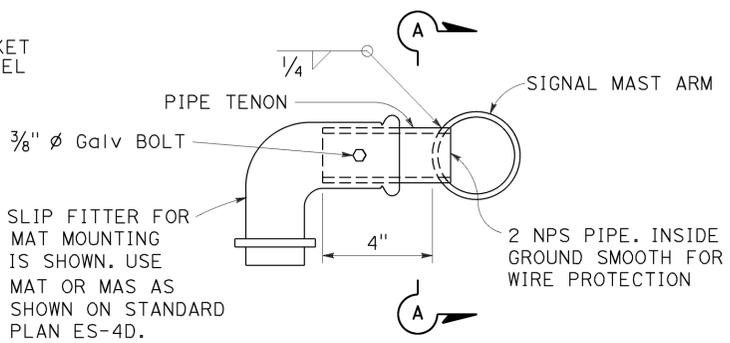
26A - 3 - 100 - 45 - 10 - F or FB

SAMPLE IDENTIFICATION NUMBER

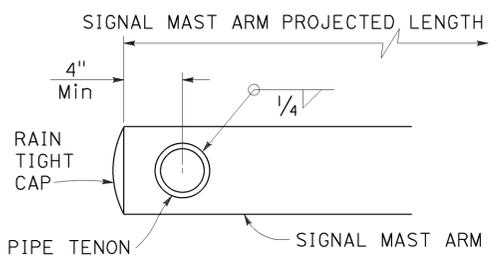


**TYPICAL DETAIL
DETAIL B-1**

**ALTERNATIVE DETAIL
DETAIL B-2**



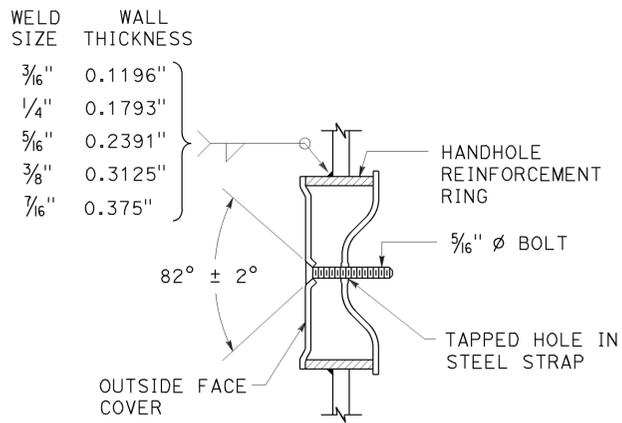
**SIDE TENON
DETAIL S-1**



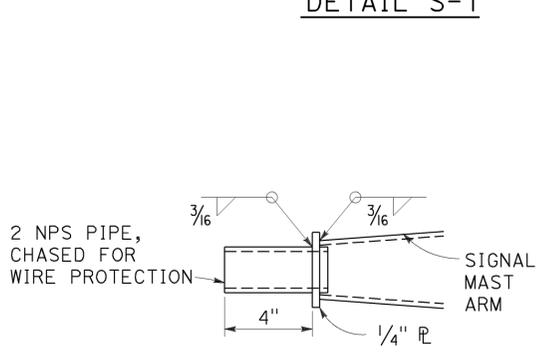
SECTION A-A

NOTES:

1. Provide a Hex nut, leveling nut and 2 washers for each bolt.
2. Luminaire mast arms shall be round, tapered steel tubes, taper of 0.1375" to 0.143-inch per foot with an end section 2 3/8" OD for mounting hardware. Extensions of 2 NPS Standard pipe and 7" long may be used at the option of the manufacturer. When low pressure sodium luminaires are required, the extension shall be 1'-3".
3. Signal mast arms shall be round, tapered steel tubes, maximum taper 0.143-inch per foot.
4. Handhole reinforcement ring shall be 1/4" x 2" for 0.1196" to 0.2391" thick poles, 3/8" x 2" for 0.3125" to 0.375" thick poles.
5. Handholes shall be located on the downstream side of traffic.
6. Detail F, fatigue resistant weld, is required at socket welded signal mast arm plate and pole base plate.
7. Cap screws shall be tightened by the turn-of-nut method 1/3 turn from a snug tight condition. No washer will be required.
8. Outside diameter, wall thickness, and corresponding section properties of poles and mast arms as shown in the Standard Plans are minimums. Unless otherwise specified, alternative sections shall require approval by the Engineer.
9. Design: AASHTO Standard Specifications for Structural Support for Highway Signs, Luminaires, and Traffic Signals, 6th Edition. Basic Wind Speed = 100 mph (3 seconds gust). Yearly Mean Wind Velocity = 15.6 mph.
10. Materials (Structural steel):
fy = 55,000 psi (tapered steel tube and anchor bolts)
fy = 50,000 psi (unless otherwise noted)
11. Materials (Reinforced concrete):
f'c = 3,625 psi
fy = 60,000 psi

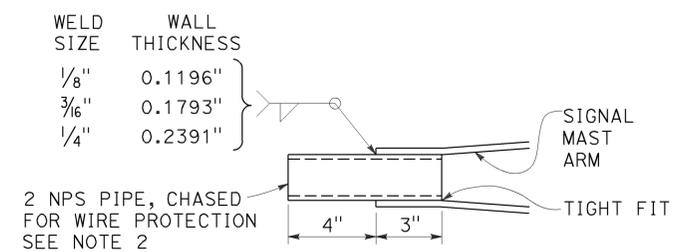


**TAMPER RESISTANT HANDHOLE COVER
DETAIL B**

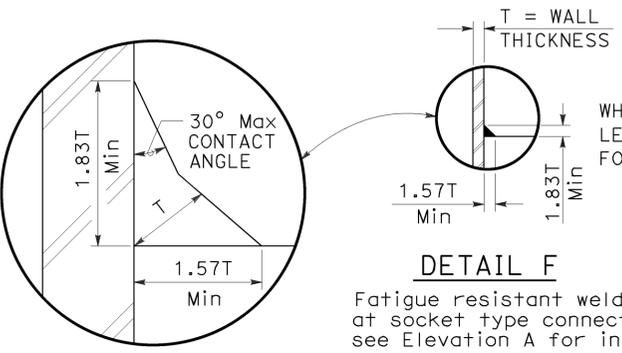


**TIP TENON
DETAIL TL**
This detail supersedes Detail S when so designated

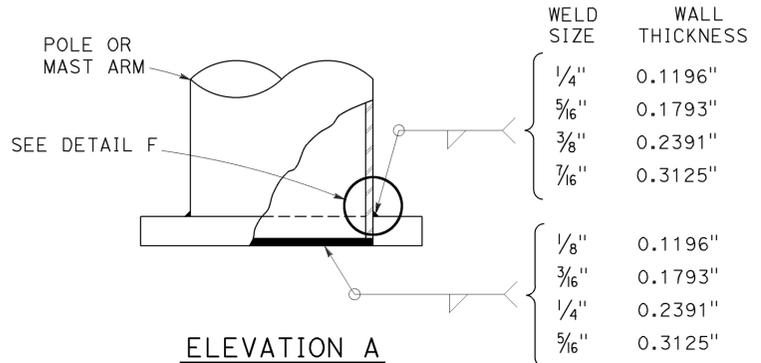
**PIPE TENONS
DETAIL S**



**TIP TENON
DETAIL TS**



DETAIL F
Fatigue resistant weld at socket type connection see Elevation A for inner weld



ELEVATION A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD,
DETAIL No. 1)**

NO SCALE

2015 REVISED STANDARD PLAN RSP ES-7M

STANDARD PLANS DATED MAY 2010

LEGEND:

- ① County Road
- ② ⊕ Future RR track
- ③ ETW
- ④ NB Route 99
- ⑤ SB Route 99
- ⑥ ES
- ⑦ Top of Exist RR Track, Elev 357.48±
- ⑧ Western limit of 50' wide easement for ramp
- ⑨ Top of Chain Link Railing
- ⑩ Top of Parapet
- ⑪ Soffit
- ⊗ Clear distance from soffit to Approx OG
- * Clear distance from soffit to top of RR track

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
- B0-1 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-8 PILE DETAILS CLASS 200
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B7-1 BOX GIRDER DETAILS

- B7-5 DECK DRAINS
- B7-8 DECK DRAINAGE DETAILS
- B7-10 UTILITY OPENING-BOX GIRDER
- B14-3 COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4")
- B14-5 WATER SUPPLY LINE (DETAILS) (PIPE LESS THAN 4")
- RSP ES-6A ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21)
- RSP ES-7M ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARDS - DETAILS NO.1)
- RSP ES-8B ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)
- RSP ES-9A ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATION)
- RSP ES-9B ELECTRICAL SYSTEMS (CONDUIT RISER AND EXPANSION FITTING, STRUCTURE INSTALLATIONS)
- RSP ES-9C ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)
- RSP ES-9D ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	66	106

10-20-15
REGISTERED CIVIL ENGINEER DATE

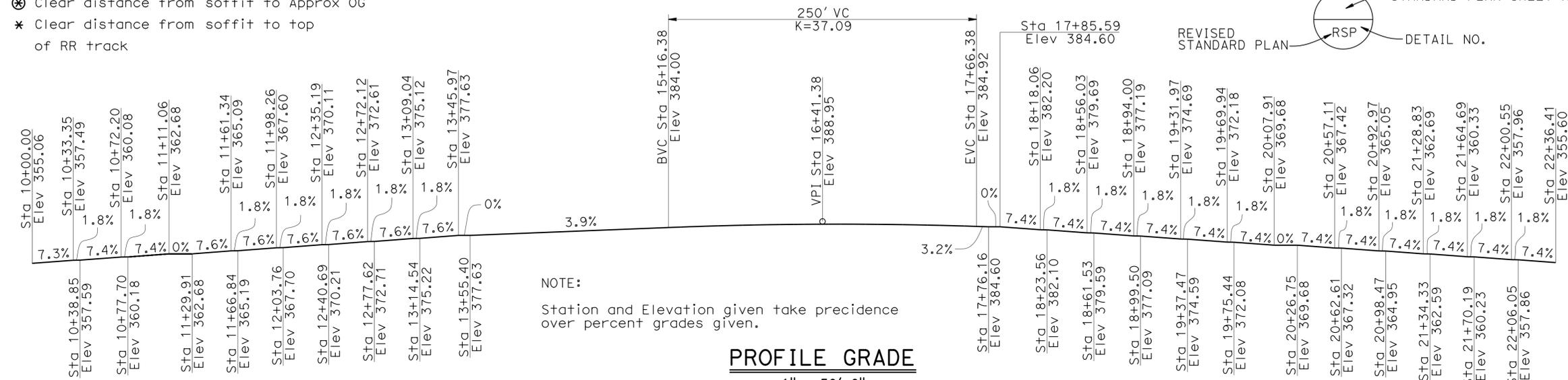
11-16-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DON NGUYEN-TAN
No. C 57510
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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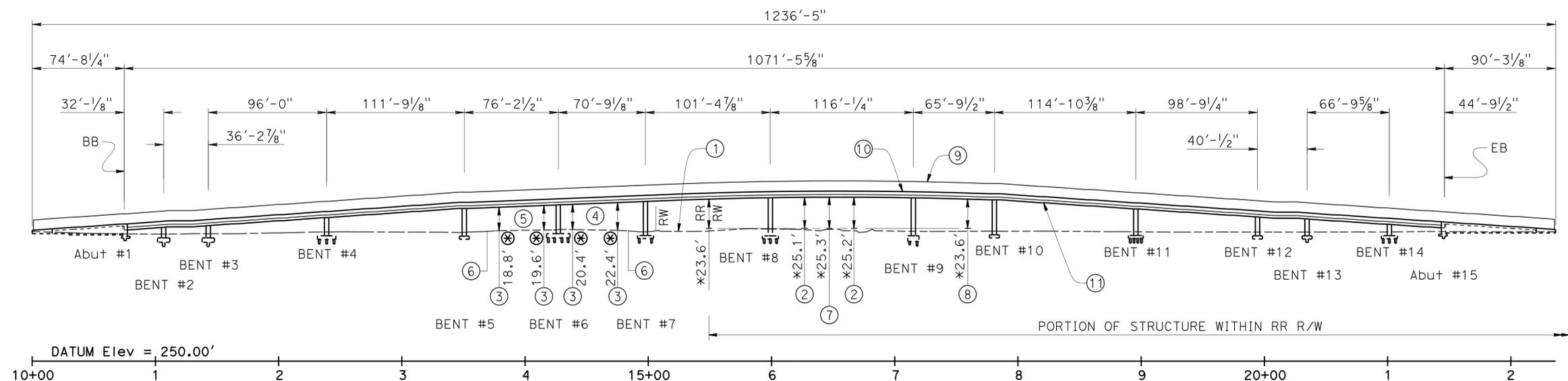
INDEX TO PLANS

- 1 GENERAL PLAN No. 1
- 2 GENERAL PLAN No. 2
- 3 GENERAL NOTES
- 4 STRUCTURE PLAN No. 1
- 5 STRUCTURE PLAN No. 2
- 6 STRUCTURE PLAN No. 3
- 7 STRUCTURE PLAN No. 4
- 8 STRUCTURE PLAN No. 5
- 9 STRUCTURE PLAN No. 6
- 10 DECK CONTOURS No. 1
- 11 DECK CONTOURS No. 2
- 12 DECK CONTOURS No. 3
- 13 DECK CONTOURS No. 4
- 14 DECK CONTOURS No. 5
- 15 DECK CONTOURS No. 6
- 16 DECK CONTOURS No. 7
- 17 FOUNDATION PLAN
- 18 ABUTMENT LAYOUT
- 19 ABUTMENT DETAILS No. 1
- 20 ABUTMENT DETAILS No. 2
- 21 BENT LAYOUT
- 22 BENT DETAILS No. 1
- 23 BENT DETAILS No. 2
- 24 BENT DETAILS No. 3
- 25 BENT DETAILS No. 4
- 26 BENT DETAILS No. 5
- 27 BENT DETAILS No. 6
- 28 BENT DETAILS No. 7
- 29 TYPICAL SECTION
- 30 LIGHTING PEDESTAL DETAILS
- 31 GIRDER LAYOUT No. 1
- 32 GIRDER LAYOUT No. 2
- 33 GIRDER LAYOUT No. 3
- 34 GIRDER LAYOUT No. 4
- 35 ADDITIONAL REINFORCEMENT No. 1
- 36 ADDITIONAL REINFORCEMENT No. 2
- 37 ADDITIONAL REINFORCEMENT No. 3
- 38 ADDITIONAL REINFORCEMENT No. 4
- 39 ADDITIONAL REINFORCEMENT No. 5
- 40 CHAIN LINK RAILING TYPE 7 (MOD) No. 1
- 41 CHAIN LINK RAILING TYPE 7 (MOD) No. 2
- 42 LOG OF TEST BORINGS (AS-BUILT)



PROFILE GRADE

1" = 50'-0"



DEVELOPED ELEVATION

1" = 50'-0"

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

NOTE:
For SUPERELEVATION DIAGRAM,
See "GENERAL NOTES" sheet.

NOTE:
VERIFY ALL CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING MATERIAL.

GARY BLAKESLEY DESIGN ENGINEER	DESIGN	BY DAVID ALVAREZ	CHECKED MIKE CULLEN	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: PEDESTRIAN AND H5	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	50-0518	KERN AVENUE POC (REPLACE) GENERAL PLAN No. 2	
	DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN	LAYOUT	BY SUSAN NG			CHECKED MIKE CULLEN	POST MILE		49.6
	QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ	SPECIFICATIONS	BY MICHAEL KETELTAS			CHECKED DON NGUYEN-TAN	PROJECT NUMBER & PHASE: 06 1400 0266 1		CONTRACT NO.: 06-0H6424

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

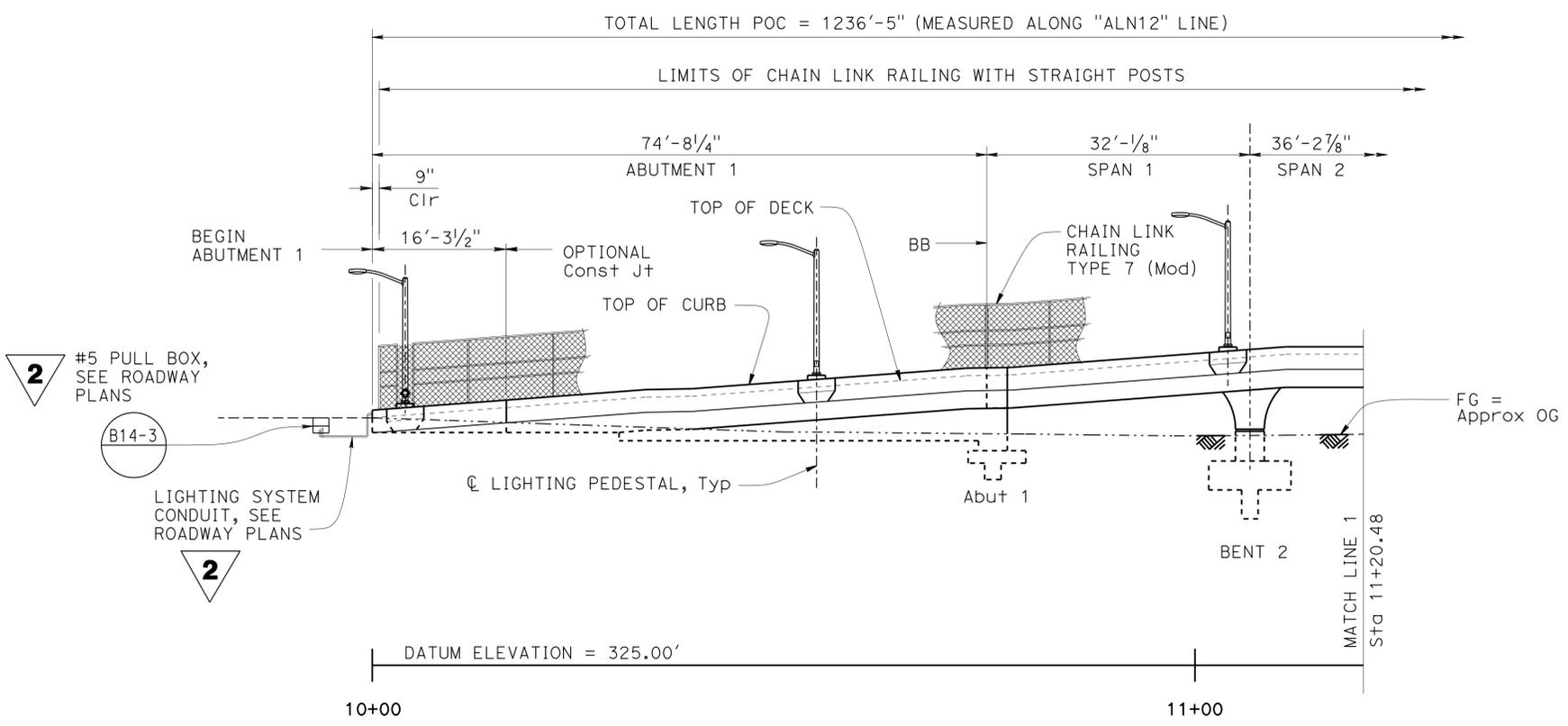
UNIT: 3591

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 11-09-12, 9-30-15, 02-24-16

SHEET 2 OF 42

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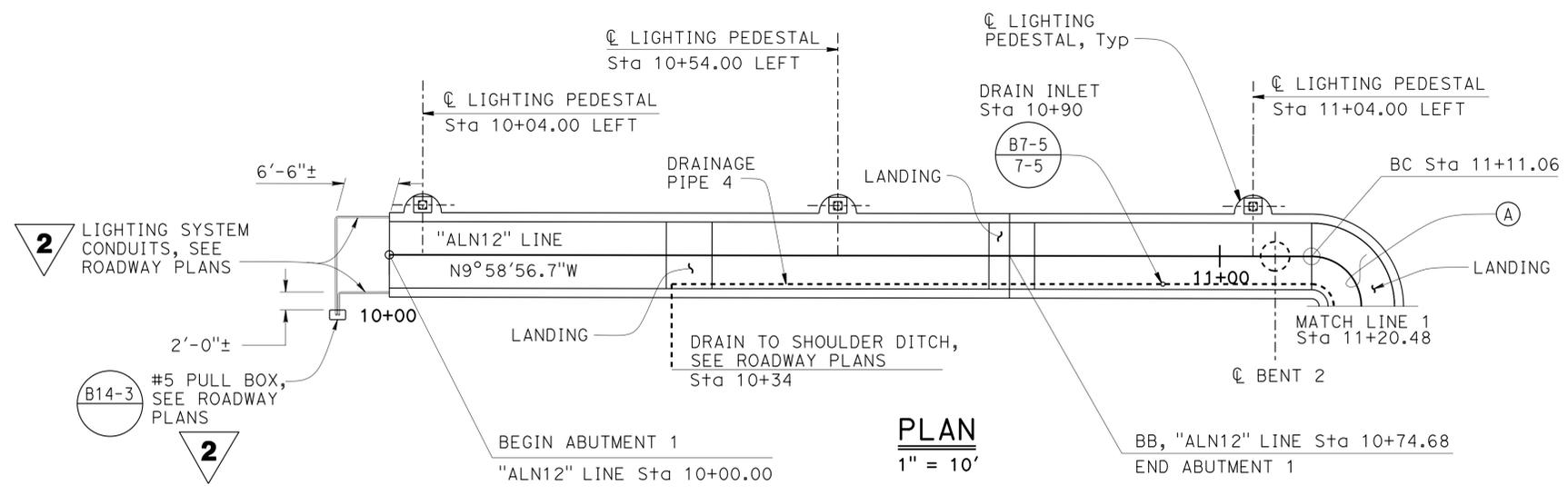
MIRRORED DEVELOPED ELEVATION
1" = 10'

NOTES:

- For clarity, not all chain link railing details are shown.
- For Column Architectural details, see "BENT DETAILS No. 7" sheet.
- For Abutment Architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.
- For Lighting Pedestal details, see "LIGHTING PEDESTAL DETAIL" sheet.

CURVE DATA

No. @	R	Δ	T	L
(A)	6.0'	180°0'0"	NA	18.85'
(B)	6.0'	90°5'52"	6.01'	9.43'
(C)	6.0'	90°0'00"	6.00'	9.43'
(D)	6.0'	180°0'0"	NA	18.84'



QUANTITIES

LEAD COMPLIANCE PLAN	LUMP SUM
WORK AREA MONITORING (BRIDGE)	LUMP SUM
BRIDGE REMOVAL	LUMP SUM
STRUCTURE EXCAVATION (BRIDGE)	662 CY
STRUCTURE BACKFILL (BRIDGE)	361 CY
FURNISH PILING (CLASS 200) (ALTERNATIVE W)	2,403 LF
DRIVE PILE (CLASS 200) (ALTERNATIVE W)	44 EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	204 CY
STRUCTURAL CONCRETE, BRIDGE	979 CY
FRACTURED RIB TEXTURE	2,788 SQFT
JOINT SEAL (MR 1 1/2")	20 LF
BAR REINFORCING STEEL (BRIDGE)	350,600 LB
MISCELLANEOUS METAL (BRIDGE)	895 LB
BRIDGE DECK DRAINAGE SYSTEM	7,292 LB
CHAIN LINK RAILING (TYPE 7 MODIFIED)	2,472 LF
COMMUNICATION CONDUIT (BRIDGE)	490 LF

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

DESIGN	BY DAVID ALVAREZ	CHECKED MIKE CULLEN
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

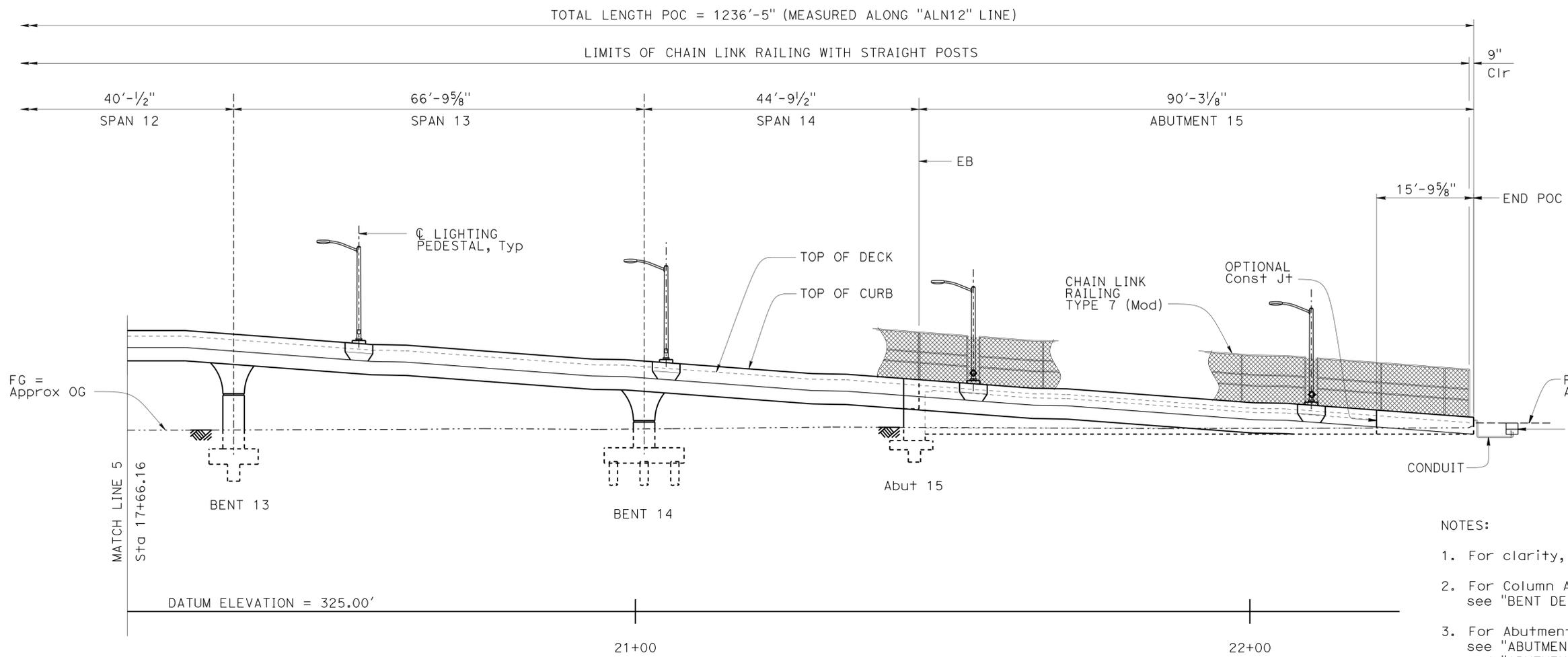
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.	50-0518
POST MILE	49.60

KERN AVENUE POC (REPLACE)
STRUCTURE PLAN No. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	73	106

REGISTERED CIVIL ENGINEER
 DATE 10-20-15
 PLANS APPROVAL DATE 11-16-15
 REGISTERED PROFESSIONAL ENGINEER
 DON NGUYEN-TAN
 No. C 57510
 Exp. 12-31-15
 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.



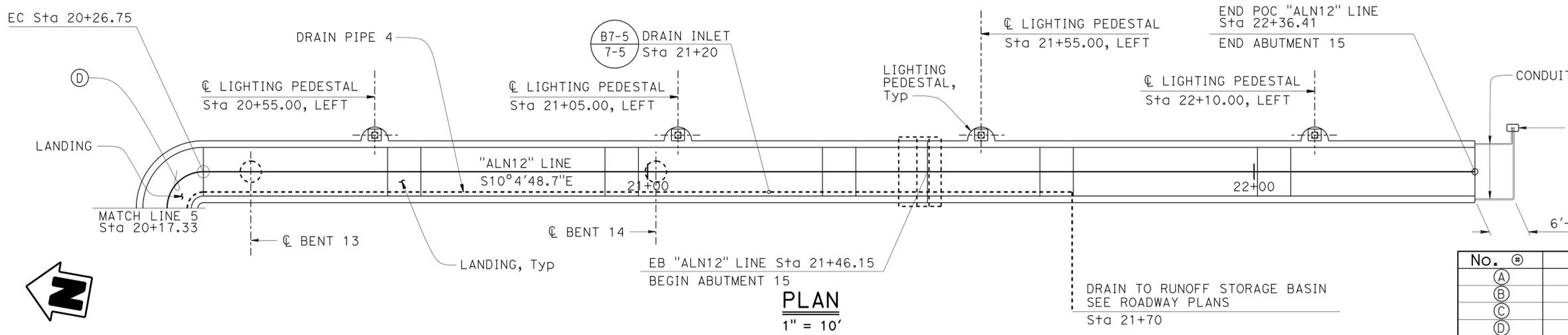
MIRRORED DEVELOPED ELEVATION

1" = 10'

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

NOTES:

1. For clarity, not all chain link railing details are shown.
2. For Column Architectural details, see "BENT DETAILS No. 7" sheet.
3. For Abutment Architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.
4. For Lighting Pedestal details, see "LIGHTING PEDESTAL DETAIL" sheet.



PLAN

1" = 10'

CURVE DATA

No.	⊕	R	Δ	T	L
(A)		6.0'	180°0'0"	NA	18.85'
(B)		6.0'	90°5'52"	6.01'	9.43'
(C)		6.0'	90°0'00"	6.00'	9.43'
(D)		6.0'	180°0'0"	NA	18.84'

DESIGN	BY DAVID ALVAREZ	CHECKED MIKE CULLEN
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.	50-0518
POST MILE	49.60

KERN AVENUE POC (REPLACE)
STRUCTURE PLAN No. 6

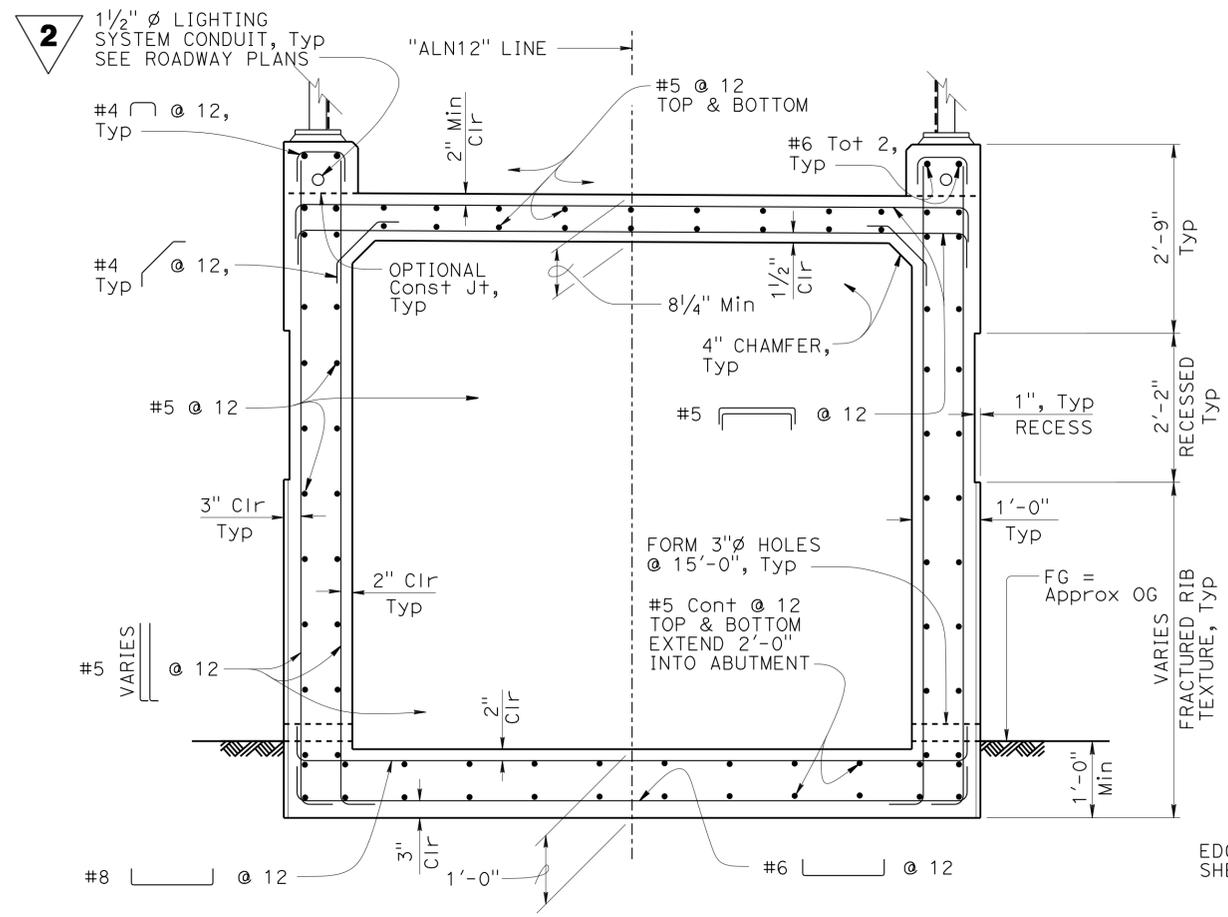
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	83	106

10-20-15
REGISTERED CIVIL ENGINEER DATE

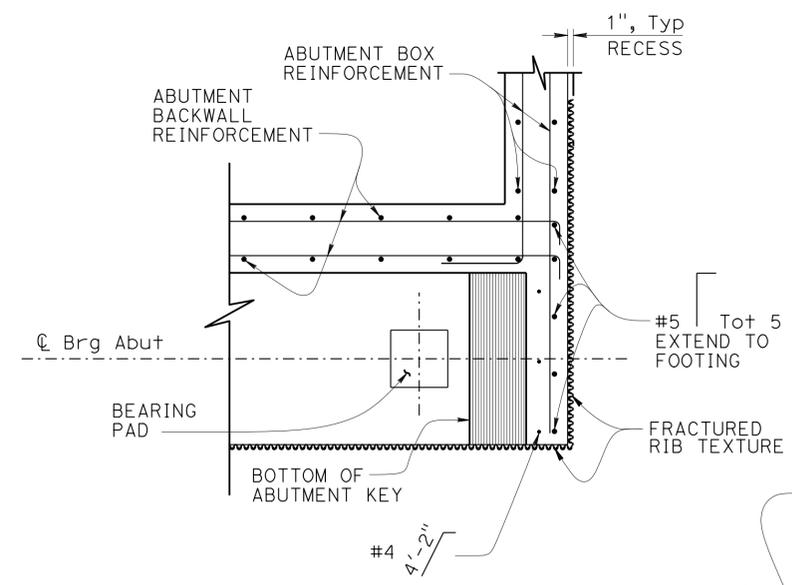
11-16-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DON NGUYEN-TAN
No. C 57510
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

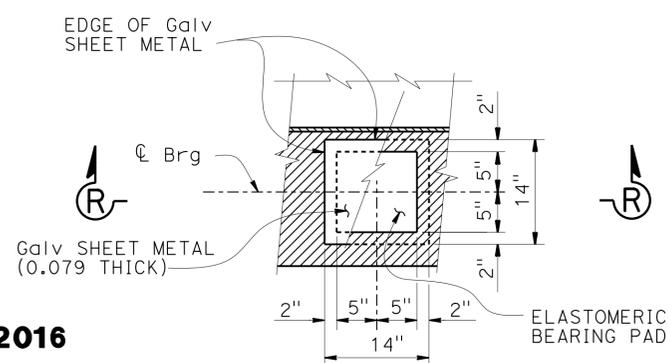
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SECTION D-D
3/4" = 1'-0"

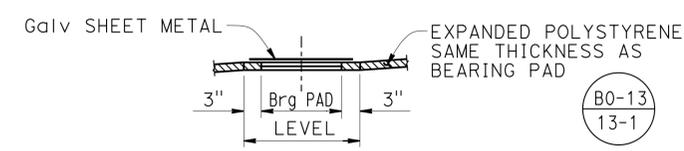


SECTION B-B
3/4" = 1'-0"



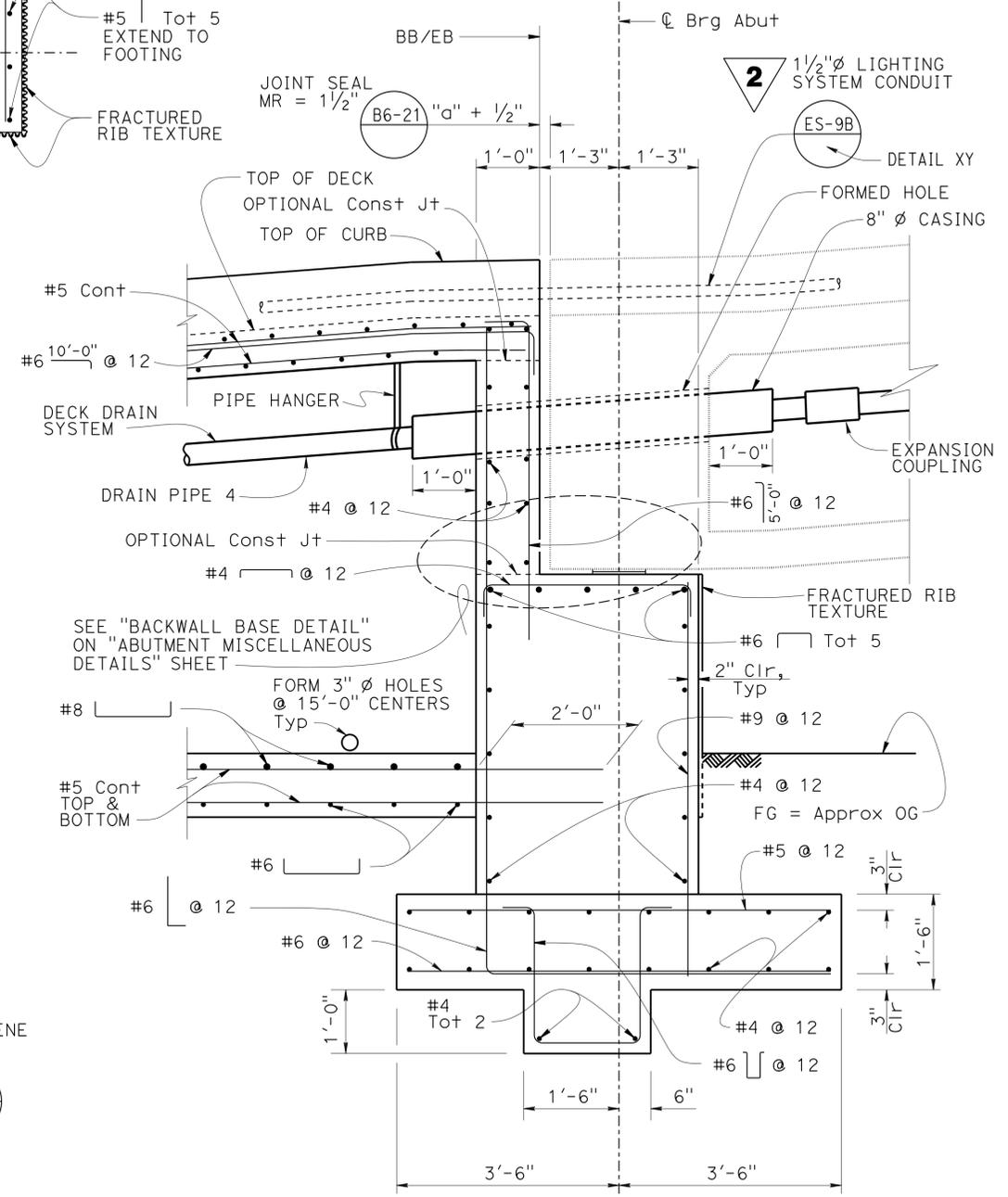
PLAN

Note:
Coat top of Bearing Pad with grease prior to placing sheet metal.



SECTION R-R
BEARING PAD DETAIL
NO SCALE

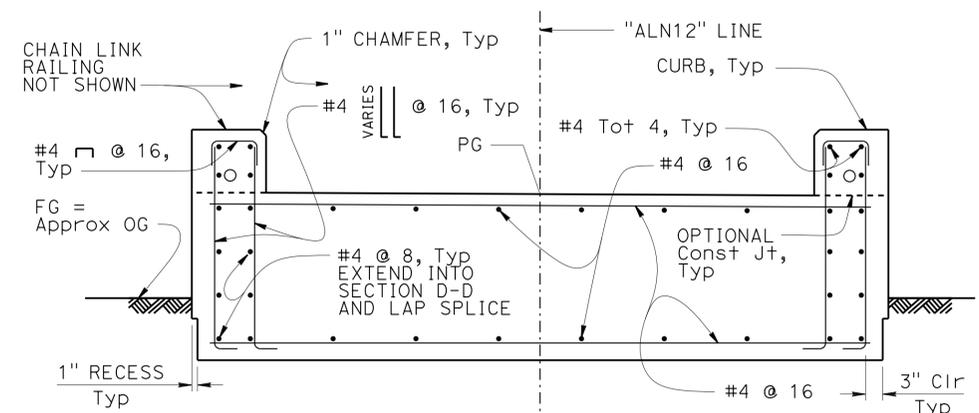
NOTE: Details typical at all bearing pads



SECTION A-A
3/4" = 1'-0"

NOTE: Abutment 1 shown, Abutment 15 similar

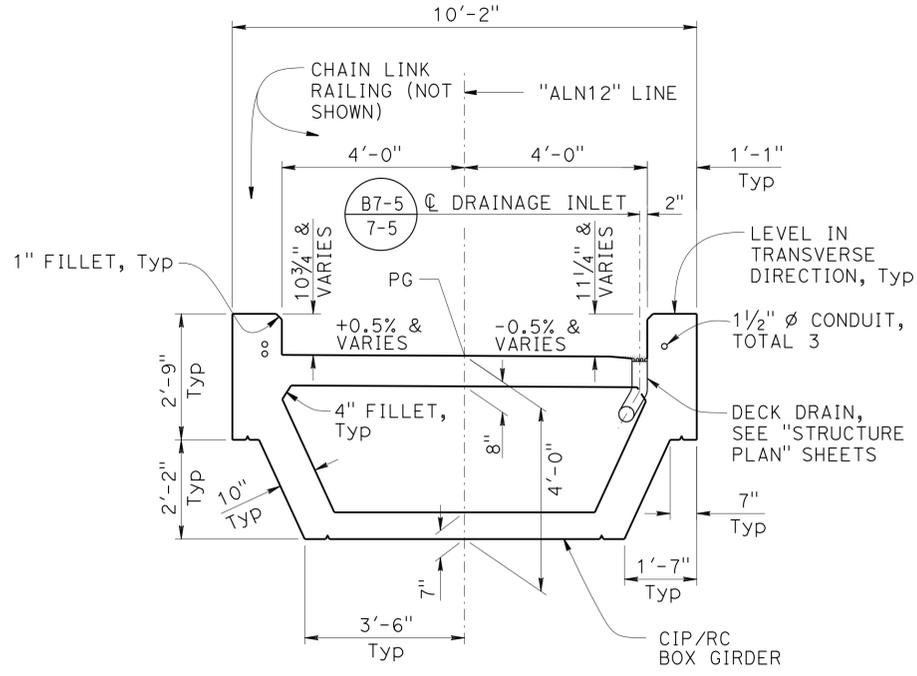
2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016



SECTION C-C
3/4" = 1'-0"

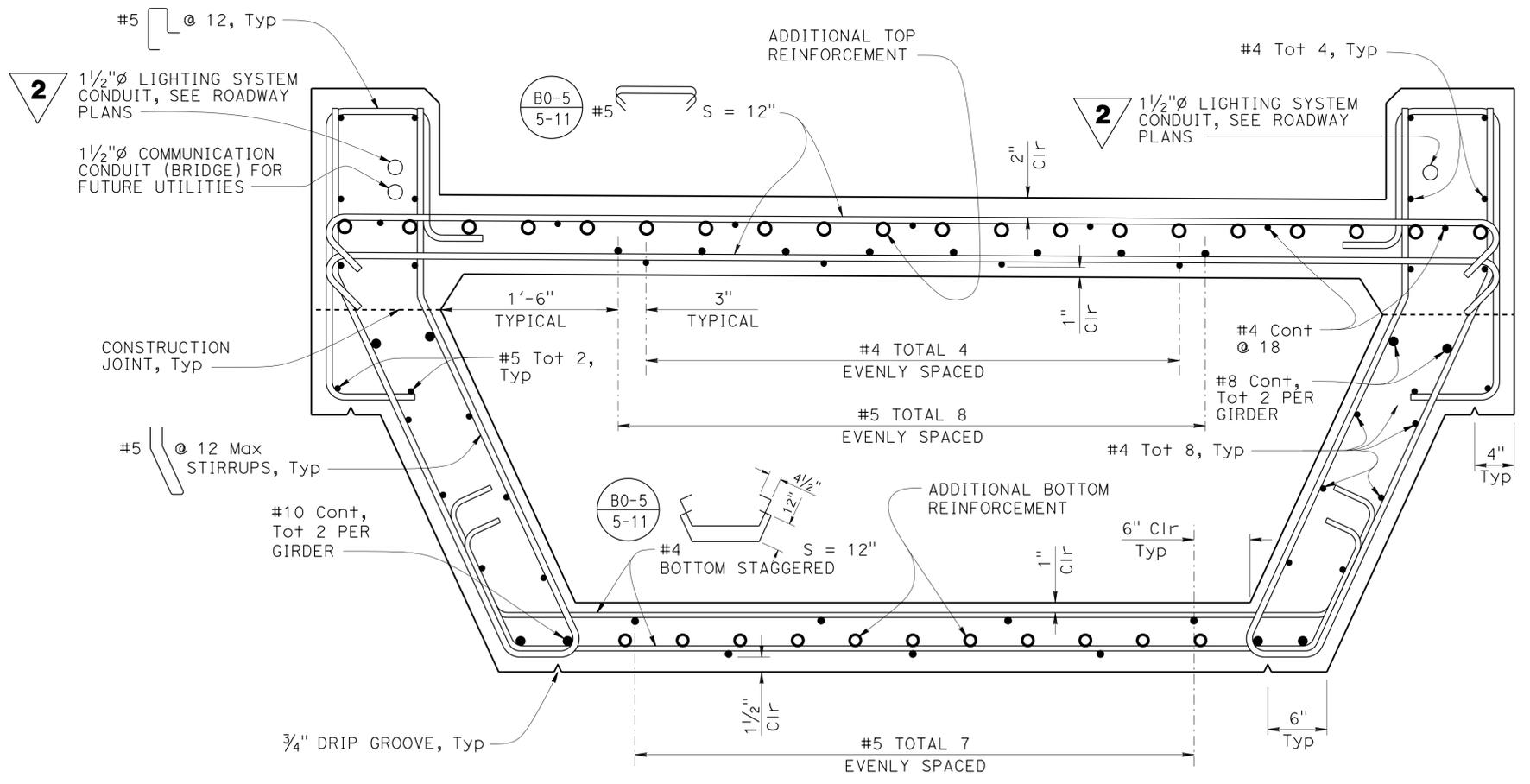
DESIGN	BY DAVID ALVAREZ	CHECKED MIKE CULLEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	KERN AVENUE POC (REPLACE) ABUTMENT DETAILS No. 1
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN			50-0518	
QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ			49.6	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	93	106
 REGISTERED CIVIL ENGINEER			10-20-15	DATE	
11-16-15			PLANS APPROVAL DATE		
					
<small>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.</small>					



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

- Notes:
- For additional top and bottom reinforcement, see "ADDITIONAL TOP REINFORCEMENT" and "ADDITIONAL BOTTOM REINFORCEMENT" details.
 - For clarity, chain link railing and lighting pedestal not shown.



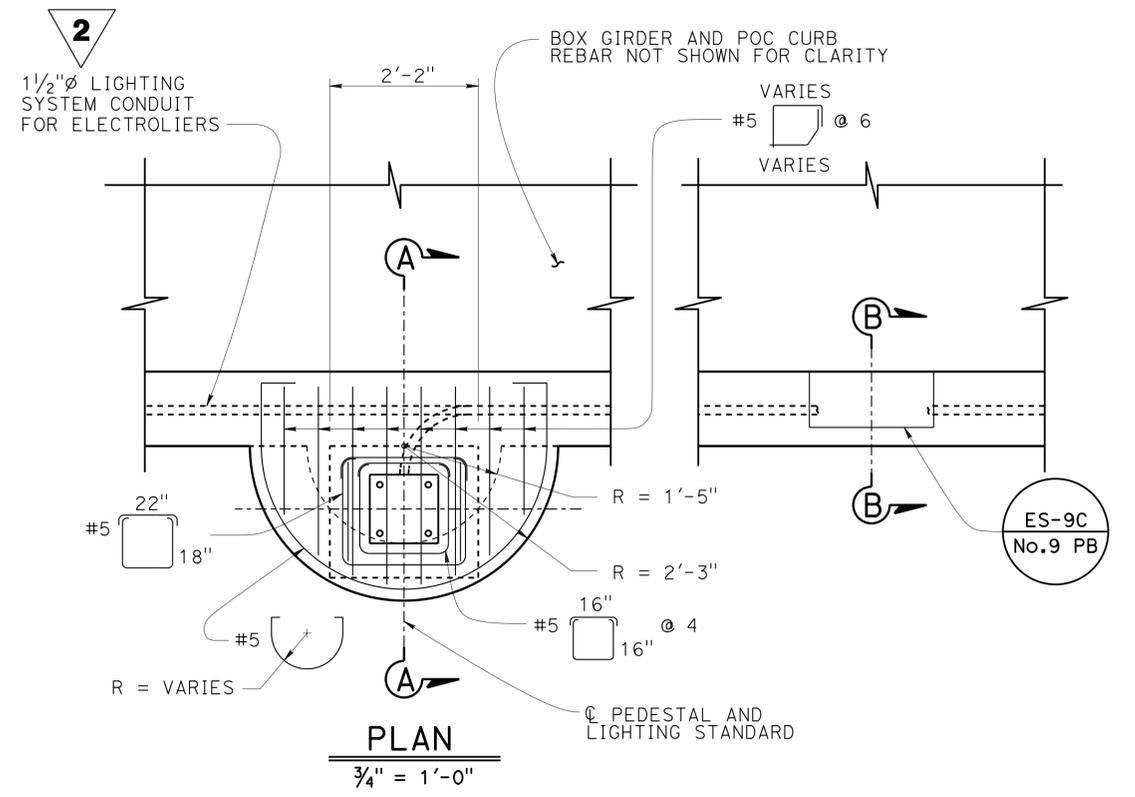
PART TYPICAL SECTION
1/2" = 1'-0"

2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

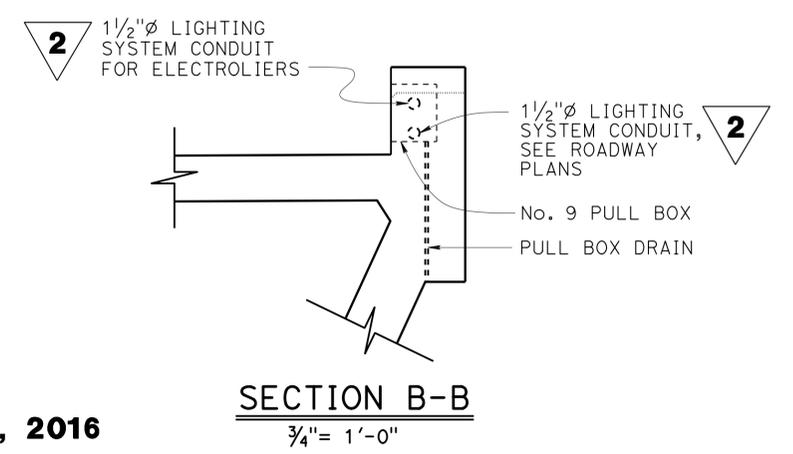
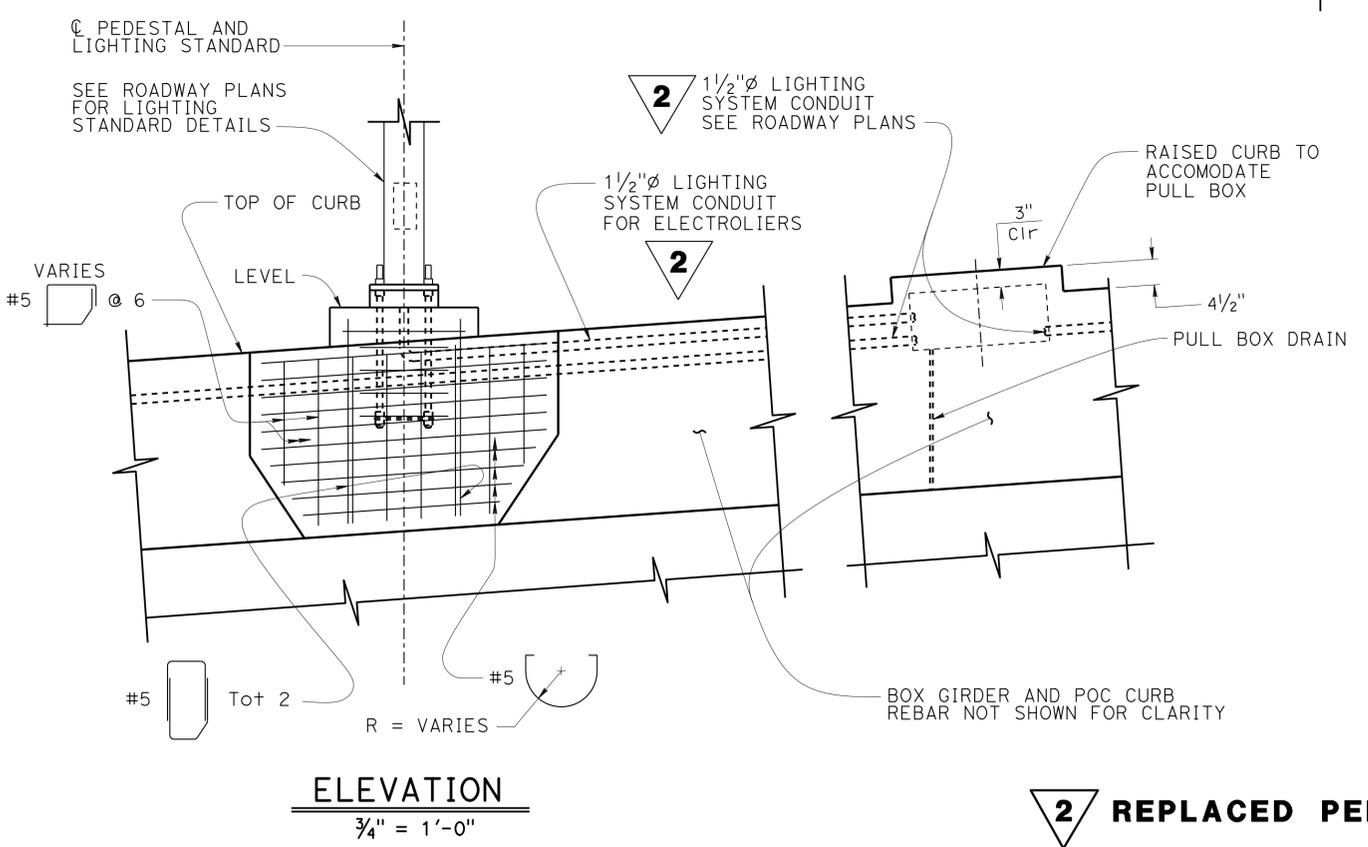
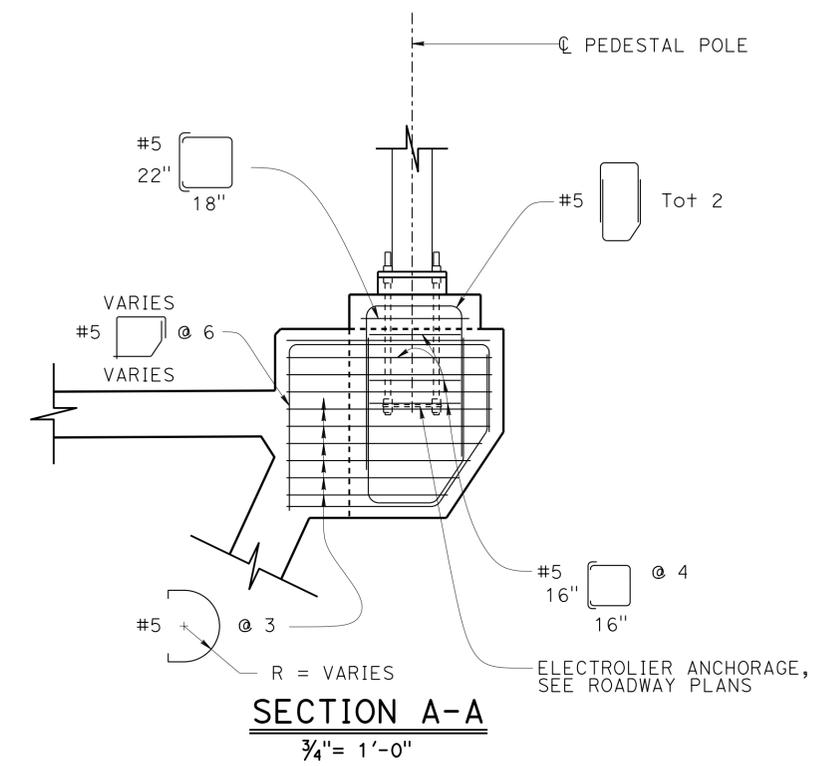
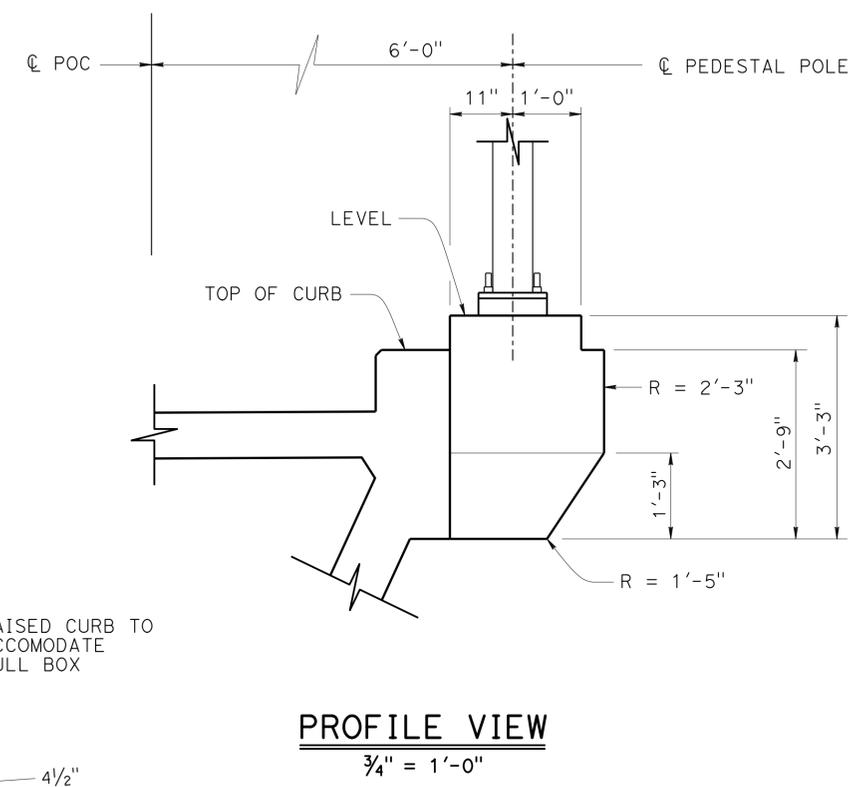
DESIGN BY DAVID ALVAREZ CHECKED MIKE CULLEN DETAILS BY SUSAN NG CHECKED DON NGUYEN-TAN QUANTITIES BY GLORIA REYES-GUTIERREZ CHECKED DAVID ALVAREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	KERN AVENUE POC (REPLACE) TYPICAL SECTION
			50-0518	
			POST MILE	
UNIT: 3591 PROJECT NUMBER & PHASE: 06 1400 0266 1 CONTRACT NO.: 06-0H6424			49.6	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 06-09-13, 06-17-16, 10-28-15 SHEET 29 OF 42

USERNAME => s119704 DATE PLOTTED => 23-AUG-2016 TIME PLOTTED => 11:07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	94	106
			10-20-15		
REGISTERED CIVIL ENGINEER			DATE		
11-16-15			PLANS APPROVAL DATE		
<small>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.</small>					

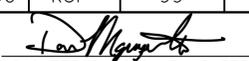


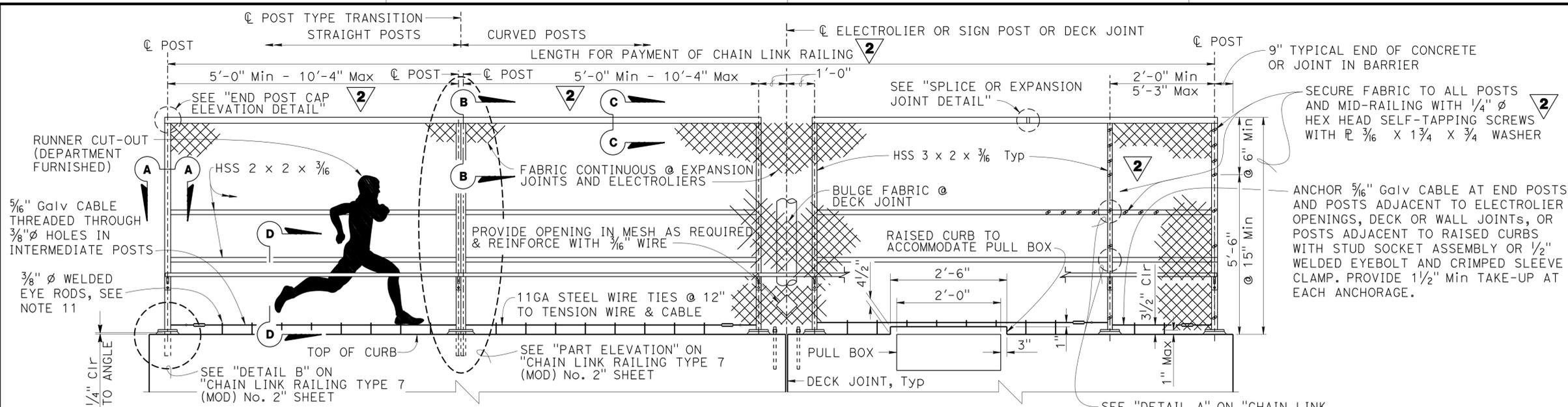
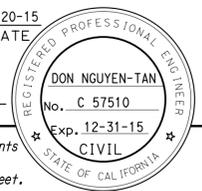
- NOTES:
1. Pedestal shall have a minimum of 2" concrete cover over rebar.
 2. For clarity, curb-mounted fence not shown.
 3. For clarity, box girder and POC curb reinforcement not shown.



2 REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY DAVID ALVAREZ	CHECKED MIKE CULLEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	50-0518	KERN AVENUE POC (REPLACE) LIGHTING PEDESTAL DETAILS	
	DETAILS	BY DAVID ELLIOTT/SUSAN NG	CHECKED DON NGUYEN-TAN			POST MILE	49.6		
	QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3591 PROJECT NUMBER & PHASE: 06 1400 0266 1 CONTRACT NO.: 06-0H6424		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 30 OF 42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	49.6	104	106
 REGISTERED CIVIL ENGINEER			10-20-15	DATE	
11-16-15			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.					



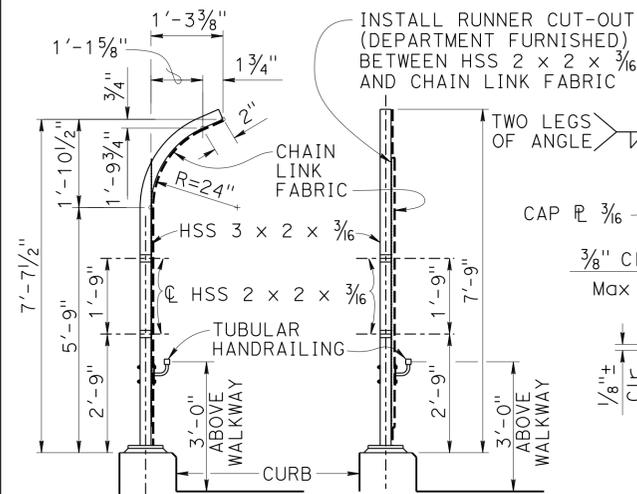
END PANEL

TYPICAL INTERIOR AT OBSTRUCTIONS & DECK JOINTS

ALTERNATE END PANEL

ELEVATION

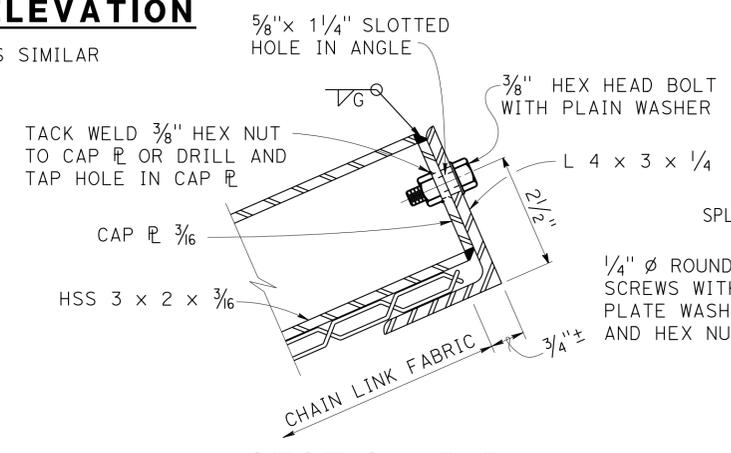
REPLACED PER ADDENDUM No. 2 DATED AUGUST 26, 2016



CURVED POST

STRAIGHT POST

END POST CAP ELEVATION

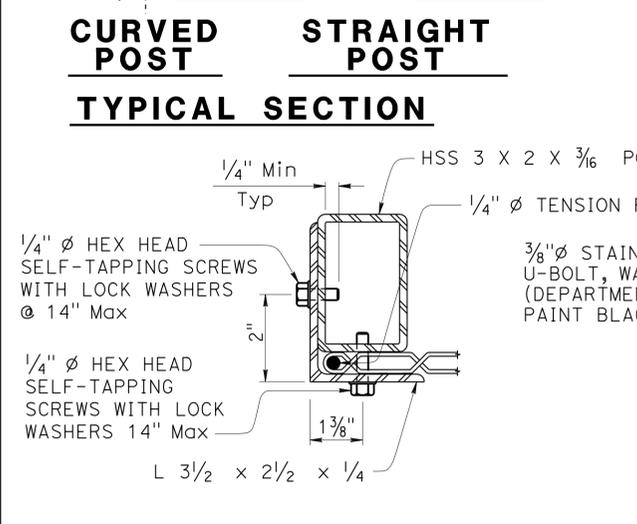


SECTION B-B

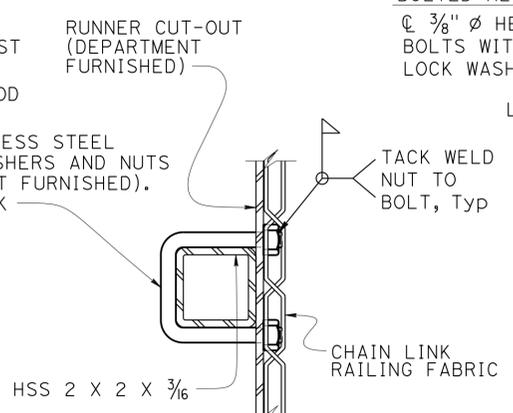
SECTION C-C

NOTES:

1. Vinyl coat railing assembly and chain link fabric, black, after fabrication.
2. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers, and other rail discontinuities.
3. Except for posts adjacent to electroliers, install straight posts and straight portions of curved posts normal to bridge profile grade. At electroliers install posts vertical.
4. Fabricate and install top horizontal angle parallel to bridge profile grade. Shop bend top horizontal angle to fit horizontal curves and grade breaks.
5. When railing is on slope, place fabric parallel to the slope.
6. Alternative details may be submitted for Engineer's approval.
7. For details and reinforcement not shown, see "TYPICAL SECTION" sheet.
8. See "STRUCTURE PLAN" sheets for limits of Chain Link Railing.
9. Provide thimbles at all cable loops.
10. Chain link fabric to be 96" wide with 1" mesh and with knuckled selvage top and bottom.
11. When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" welded eye embedded rods 4" into the top of the concrete curb and equally spaced to limit the middle ordinate distance between the 5/16" cable and the curve to 1" max.
12. Holes in posts for 5/16" cable and its anchorages may be field drilled and painted with zinc rich paint.
13. For fencing panels at locations containing pull boxes, adjust location of 5/16" cable and height of 3/8" welded eye rods.
14. Bend horizontal components to conform to curve.
15. At expansion joint, provide gap dimension equal to gap for deck joint. Increase slotted hole length and splice length accordingly.



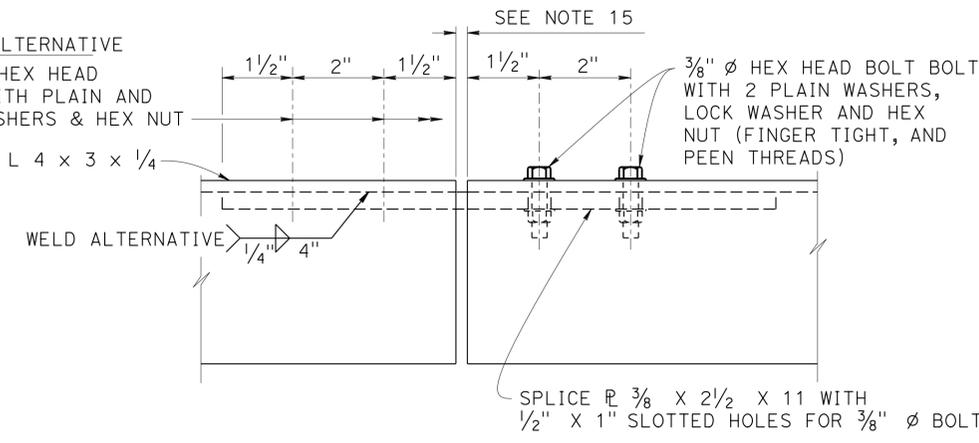
SECTION A-A



SECTION D-D

BOLTED ALTERNATIVE

3/8" Ø HEX HEAD BOLTS WITH PLAIN AND LOCK WASHERS & HEX NUT



SPLICE OR EXPANSION JOINT DETAIL

DESIGN	BY DON NGUYEN-TAN	CHECKED MIKE CULLEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	KERN AVENUE POC (REPLACE) CHAIN LINK RAILING TYPE 7 (MOD) No. 1
DETAILS	BY D. ELLIOTT/G. DICKERSON	CHECKED DON NGUYEN-TAN			50-0518	
QUANTITIES	BY GLORIA REYES-GUTIERREZ	CHECKED DAVID ALVAREZ			POST MILE	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3591	PROJECT NUMBER & PHASE: 06 1400 0266 1	CONTRACT NO.: 06-0H6424
					DISREGARD PRINTS BEARING EARLIER REVISION DATES	
					REVISION DATES	
					05-06-15	08-26-15
					10-06-15	
					SHEET	OF
					40	42

