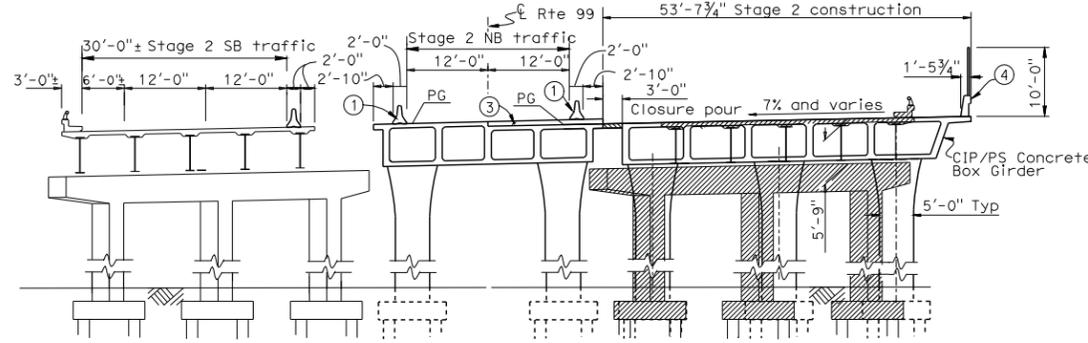


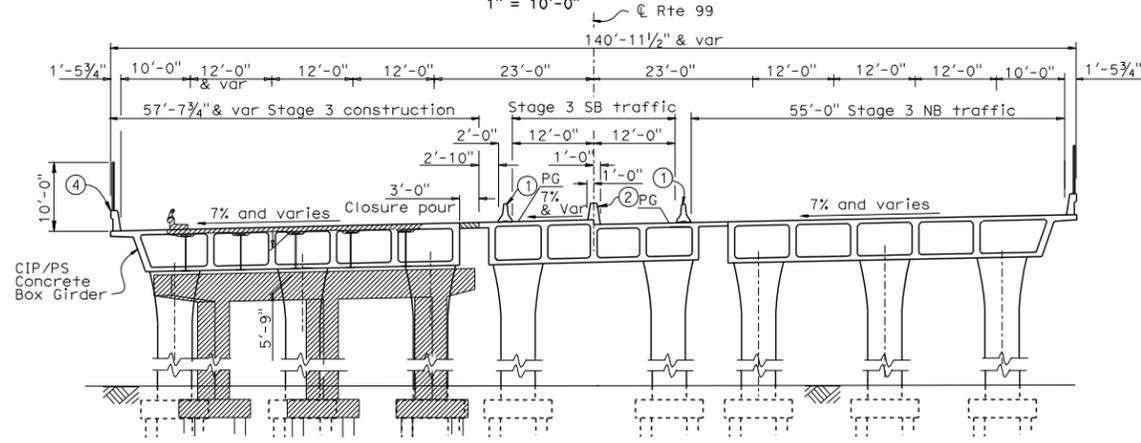
STAGE 1 TYPICAL SECTION

1" = 10'-0"



STAGE 2 TYPICAL SECTION

1" = 10'-0"



STAGE 3 TYPICAL SECTION

1" = 10'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	99	13.9 / 14.4		

REGISTERED CIVIL ENGINEER	X	DATE
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.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

Notes:

- ① Temporary Rail Type K anchored to bridge deck, see Road Plans.
- ② Concrete Barrier Type 60A Modified, to be placed after stage 3 construction is complete.
- ③ PCC overlay, Max height = 8", to be removed after stage 3 construction is complete.
- ④ Concrete Barrier Type 736 (Mod) with Chain Link Railing Type 7.
- ⑤ Removal limits, stage 1 construction.

- Indicates limits of removal
- Indicates closure pour

Railroad Traffic

Falsework opening required over	UPRR (Name of RR)
Vertical Clearance	Horizontal Clear Width
21'-0"	24'-0"

DESIGN BY Keith Stillmunkes	CHECKED BY Sujan Talukder	LOAD & RESISTANCE FACTOR DESIGN BY Sujan Talukder	LIVE LOADINGS: HL 93 W/ "LOW-BOY" PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO. 39-0241	EAST MERCED OVERHEAD (REPLACE)
DETAILS BY Yingjue Feng	CHECKED BY Sujan Talukder	LAYOUT BY Keith Stillmunkes	CHECKED BY Sujan Talukder	PLANS AND SPECS COMPARED X	POST MILE 14.10	RAILROAD SUBMITTAL NO. 2	
QUANTITIES BY X	CHECKED BY X	SPECIFICATIONS BY		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 10 EA 48100K	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 2 OF X

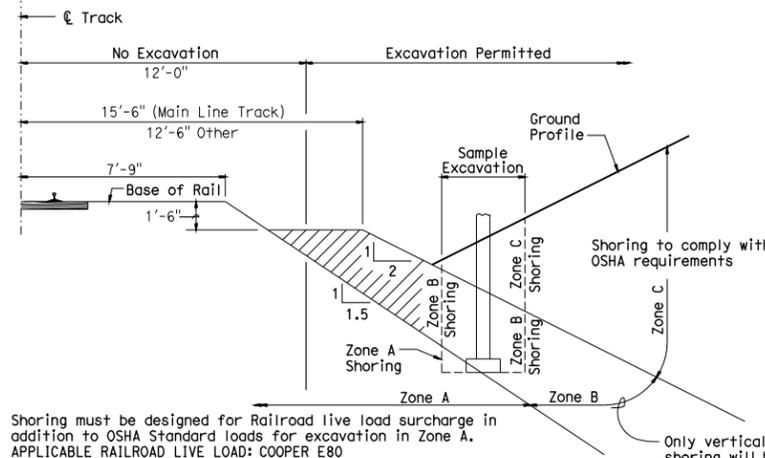
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)

FILE => rr39-0241-a-gp2.dgn

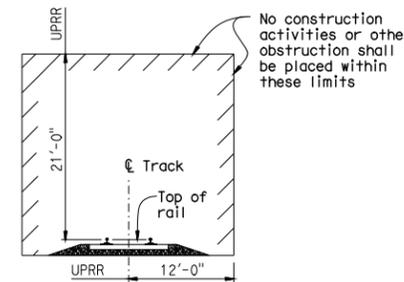
TIME PLOTTED => 14:31 USERNAME => 8136697 DATE PLOTTED => 18-JUN-2009

GENERAL SHORING NOTES:

- All dimensions are measured perpendicular to C Track.
- Prior to commencing any work, the contractor shall submit for approval by the Railroad detailed plans indicating the nature and extent of the track protection shoring proposed. The contractor shall install the temporary shoring system per the approved plans. Design of the temporary shoring system to comply with current RAILROAD GUIDELINES FOR TEMPORARY SHORING.
- For excavations which encroach into Zone A or B, shoring plans shall be accompanied by design calculations. Plans and calculations must be signed and stamped by a Professional Engineer registered in the state of California.



GENERAL EXCAVATION ZONES

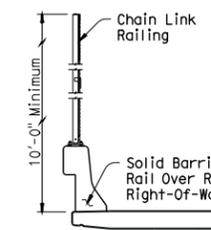


MINIMUM CONSTRUCTION CLEARANCE ENVELOPE (NORMAL TO RAILROAD)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Mer	99	13.9 / 14.4		

REGISTERED ENGINEER - CIVIL
 Keith Stillmuckes
 No. 68878
 Exp. 9/30/09
 CIVIL
 STATE OF CALIFORNIA

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.



TYPICAL FENCE ON BARRIER DETAIL

THE FOLLOWING INFORMATION PER RAILROAD GUIDELINES SHALL BE PROVIDED ON THE BRIDGE PLANS

Railroad General Plan (GP):

- Centerline of bridge and/or centerline of project.
- Track layout and limits of railroad right-of-way with respect to centerline of main lines.
- Future tracks, access roadways and identify the existing tracks as main, siding or spur etc.
- Location of minimum vertical clearance.
- Minimum horizontal clearance at right angle from the centerlines of the nearest existing or future track to the face of obstruction such as substructure above grade or foundation below grade.
- Horizontal spacing at right angle between the centerlines existing and/or future tracks.
- Limits of shoring and minimum distance at right angle from the centerline of the nearest tracks.
- Toe of slope and/or limits of retaining wall.
- Railroad Milepost and direction of increasing Milepost.
- Limits of barrier rail and fence combination over the railroad right-of-way.
- Depth of foundation below bottom of tie.
- Existing and proposed ground line & roadway profile.
- Type of slope paving.
- Total width of superstructure.
- Width of shoulder and/or sidewalk.
- Top and bottom of pier protection wall elevation relative to top of the rail elevation and cross-sectional dimensions.
- Top of rail elevation information as shown in the table for all tracks with permanent vertical clearance of less than 24 feet. (This information is only required for new structures)

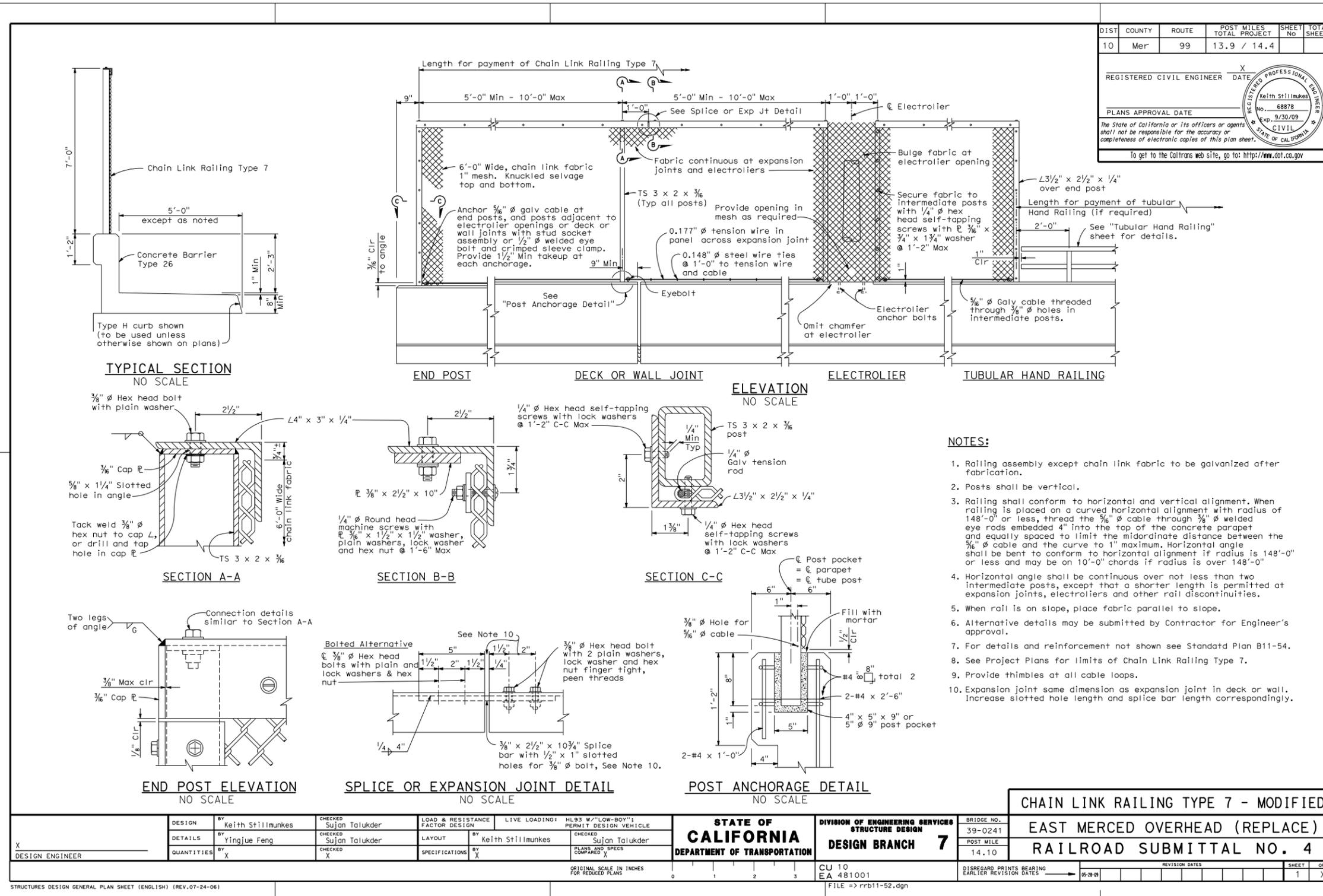
Foundation Plan:

- Existing contours.
- All existing facilities and utilities.
- Direction of flow for all drainage system within the project limits.

RAILROAD GENERAL NOTES:

- Railroad requires review and approval of all submittals for shoring, demolition, erection and falsework. No work shall be allowed prior to written railroad approval. Allow a minimum of four weeks for the review and approval of each submittal unless specified otherwise in the contract special provisions. Specific conditions or complex scope of submittals may substantially increase the time for review.
- The proposed grade separation project shall not increase the quantity and/or characteristics of the flow in the railroad's ditches and/or drainage structures. Deck drains over the railroad right of way shall not be allowed. The flow from the deck shall be contained and directed away from the railroad drainage system.
- The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the railroad authority for approval prior to beginning any construction activities.
- The contractor must submit a proposed method of erosion and sediment control within the railroad right-of-way and have the method approved by the railroad.
- All shoring systems that impact the railroad's operations and/or supports the railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary Shoring.
- All demolitions within the railroad right-of-way and/or demolition that may impact the railroad's tracks or operations shall be in compliance with the current Railroad Demolition Guidelines.
- All erection over the railroad right-of-way shall be designed such that there is no interruption to the railroad's normal operation. Any train traffic interruption shall require prior railroad approval in writing.
- All construction phases that may impact the railroad's normal operation shall be designed to cause no interruption to the railroad operation. Any train traffic interruption closure shall require prior railroad approval in writing.
- All falsework clearances shall comply with the minimum construction clearances envelope.
- All permanent clearances shall be verified prior to completion of the project.
- For all railroad coordination during construction refer to the railroad's special provisions within the Contract Special Provisions documents and the approved Construction and Maintenance (C & M) Agreement.

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		SPECIAL DETAIL	
FILE NO. xs11-010-X	APPROVED BY RAJ MANGAT RESPONSIBLE TECHNICAL SPECIALIST APPROVAL DATE 02-01-09	RELEASED BY SHANNON POST RESPONSIBLE OFFICE CHIEF RELEASE DATE - - -	BRIDGE NO. 39-0241	POST MILE 14.10	RAILROAD SUBMITTAL NO. 3		
DISREGARD PRINTS BEARING EARLIER REVISION DATES				MINIMUM RAILROAD REQUIREMENTS FOR OVERHEAD STRUCTURES			
USERNAME => e136697				EAST MERCED OVERHEAD (REPLACE)			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				REVISION DATES (PRELIMINARY STAGE ONLY)			
0 1 2 3				SHEET OF			



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	99	13.9 / 14.4		

REGISTERED CIVIL ENGINEER X DATE _____

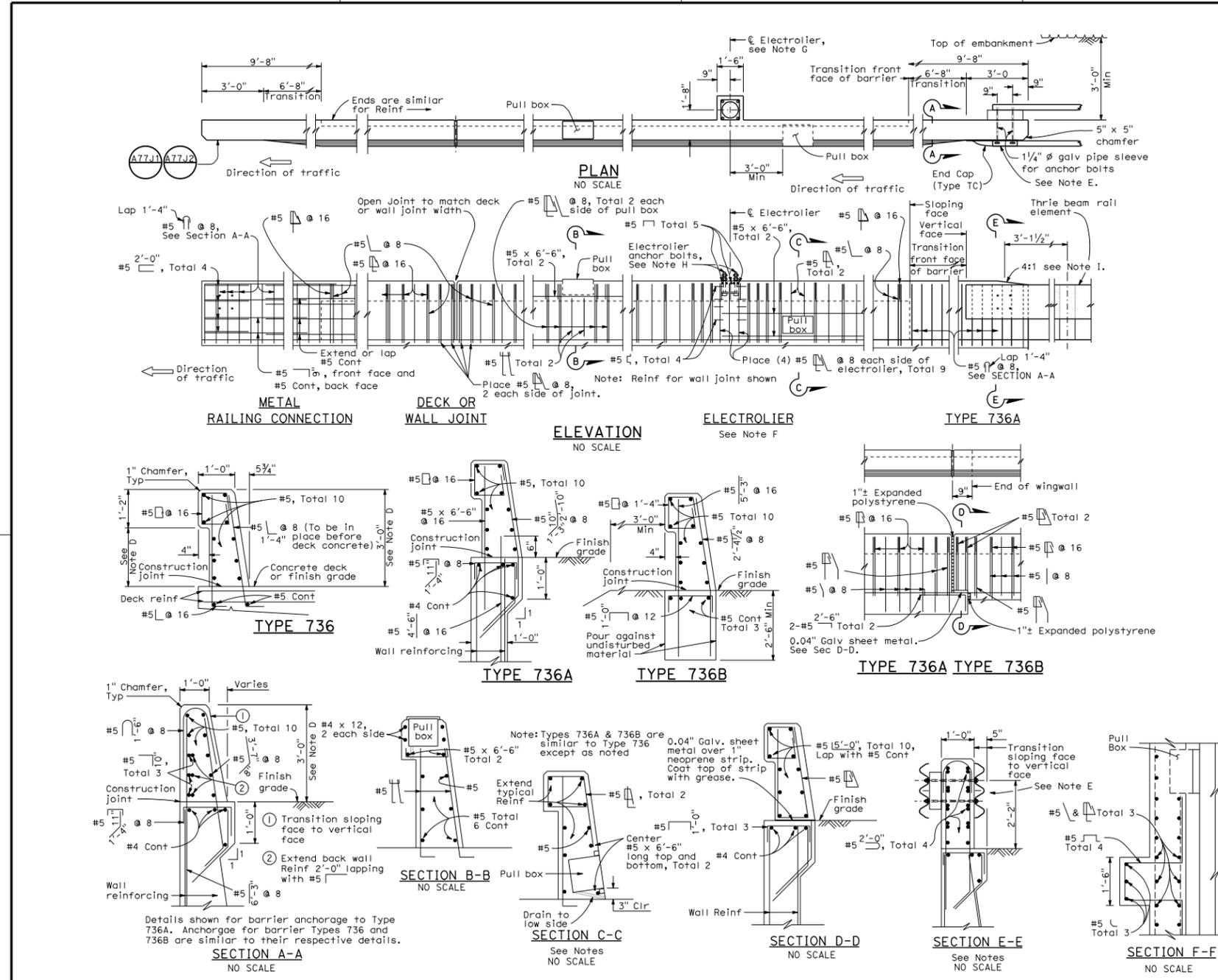
PLANS APPROVAL DATE _____

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.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

REGISTERED PROFESSIONAL ENGINEER
Keith Stillmunkes
No. 68878
Exp. 9/30/09
CIVIL
STATE OF CALIFORNIA

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)



- NOTES:**
- Walls are to be backfilled before barrier is placed.
 - Clearance to reinforcing steel in barrier to be 1", except as noted. Longitudinal reinforcement to stop at all expansion joints.
 - See Project Plans for locations of electroliers and pull boxes.
 - Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See Project Plans.
 - For typical metal railing connection details not shown, see Standard Plans A77J1 and A77J2.
 - See Standard Plans ES-9A, ES-9B, ES-9C, ES-9D and ES-9E for electrical details. The maximum number of conduits in the barrier is limited to two (2) 2" conduits along with one (1) 3" conduit. When a 3" conduit is used, it is restricted to the base of the barrier.
 - For electrolier mounting details, See Standard Plans ES-6A and ES-6B.
 - Minimum concrete edge distance, to the reinforcing shown, shall be maintained. Edge distance may be adjusted to accommodate increase in concrete cover for architectural treatment.
 - Taper the top of the end of the bridge railing at 4:1 to match the top elevation of the three beam rail element.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	Mer	99	13.9 / 14.4		

REGISTERED CIVIL ENGINEER DATE _____ X
 Keith Stillmunkes
 No. 68878
 Exp. 9/30/09
 CIVIL
 STATE OF CALIFORNIA

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.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

DESIGN ENGINEER	DESIGN BY	Keith Stillmunkes	CHECKED	Sujan Talukder	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING	HL93 W/"LOW-BY" PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 7	BRIDGE NO.	39-0241	EAST MERCED OVERHEAD (REPLACE) RAILROAD SUBMITTAL NO. 5	
	DETAILS BY	Yingjue Feng	CHECKED	Sujan Talukder	LAYOUT	BY	Keith Stillmunkes			CHECKED	Sujan Talukder		POST MILE
	QUANTITIES BY	X	CHECKED	X	SPECIFICATIONS BY	X				CU 10 EA 481001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF X

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

FILE => rrb11-56.dgn

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.07-24-06)