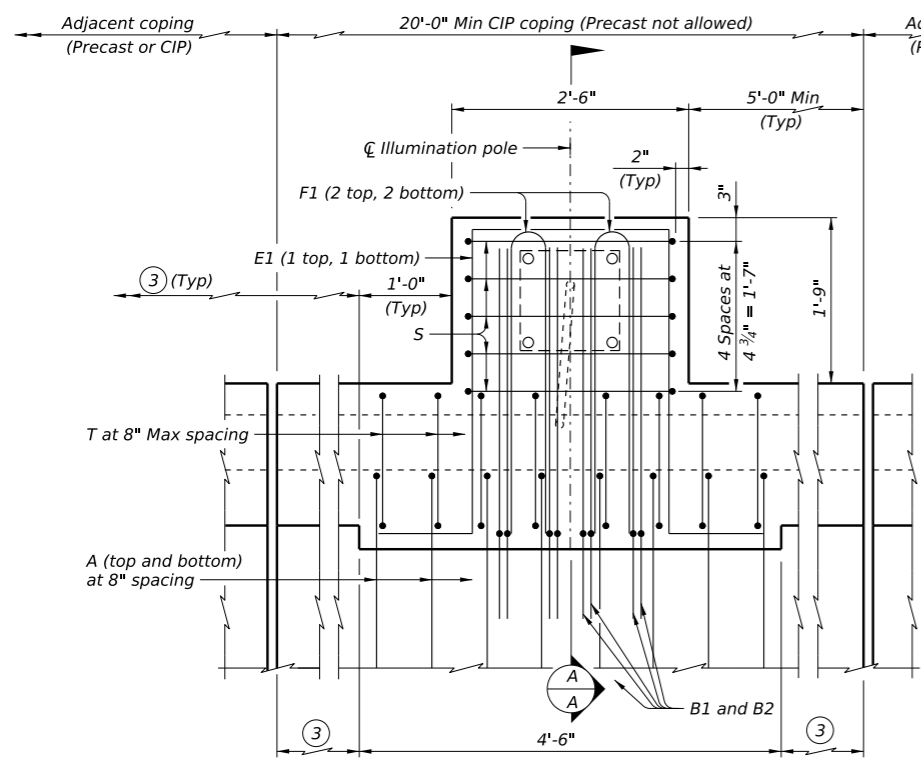


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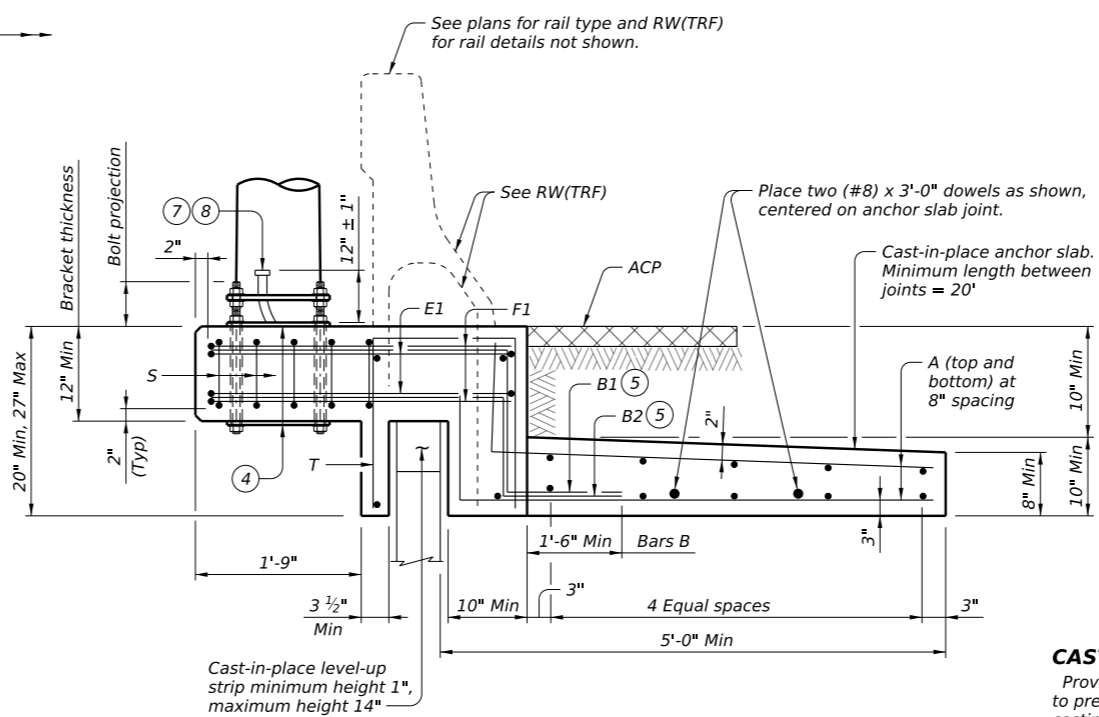
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**PLAN**

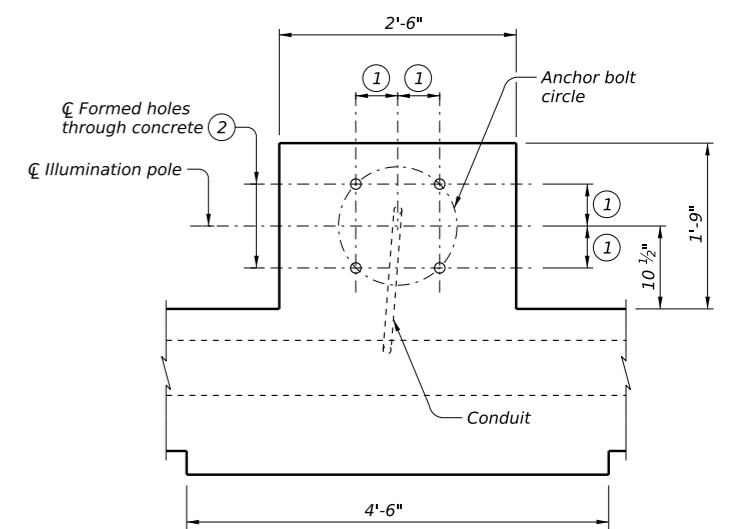
See "Mounting Plan" for details not shown.

**ADJACENT TO ACP**



**SECTION A-A**

Longitudinal bars are #4 unless shown otherwise.



**MOUNTING PLAN**

Reinforcing is not shown for clarity.

① See table for anchor bolt offset dimension.

② See table for hole diameter size.

③ See RW(TRF) for coping details and reinforcing not shown.

④ See "Anchor Bolt Assembly," "Anchor Bolt Plate," and "Table of Anchor Bolt and Anchor Bolt Plate Information."

⑤ Lap 2'-7" Min with Bars F.

⑥ Concrete pavement must be at least 12 inches thick for a minimum of 6 feet from inside edge of coping.

⑦ If lighting is to be placed on future contract, extend conduit only 6 inches and provide water tight cap.

⑧ Ream burrs and install bell ends or bushings on all conduit ends.

**CAST-IN-PLACE COPINGS:**

Provide compressible material to isolate precast panel from cast-in-place (CIP) coping to prevent cracking. Attach compressible material to both sides of precast panel prior to casting concrete for coping.

Provide a smooth level-up strip on top of the precast panels when cast-in-place (CIP) coping is anchored to reinforced concrete pavement. The purpose of the level-up is to allow the pavement and coping to move longitudinally relative to the wall without causing damage.

**JOINTED CONCRETE PAVEMENT:**

When coping is adjacent to and anchored into jointed concrete pavement, align coping joints with pavement joints.

**MATERIAL NOTES:**

Provide Class C concrete ( $f'c=3,600$  psi) for illumination pole bracket and CIP coping. Provide Grade 60 reinforcing steel.

Provide #4 longitudinal bars, unless otherwise shown.

Galvanize anchor bolts, nuts, washers, and anchor bolt plates. Repair galvanizing damage from tack welding per Item 445, "Galvanizing."

Cast illumination pole brackets monolithically with the CIP coping.

**GENERAL NOTES:**

Designed for up to 50-foot light pole with one 12-foot arm, 60 lbs. luminaire with 1.6 sq ft. EPA at maximum design wind speed of 110 mph (3 second gusts). A special design is required if luminaire mounting height exceeds 100 feet above average surrounding terrain.

The type and size of conduit, anchor bolt circle diameter, and number and location of brackets is shown elsewhere on the plans. Brackets found to conflict with other components of retaining wall may be relocated if necessary and as directed by Engineer.

These details must be used in conjunction with the Retaining Wall Traffic Railing Foundations (RW(TRF)) standard to develop specific details for submission with the shop drawings. The steel reinforcement shown is specifically for the area of the illumination pole bracket.

Do not place illumination pole until after the coping and pavement have been constructed.

See RW(TRF) standard for details and notes not shown.

See Roadway Illumination Poles standard for details and notes not shown.

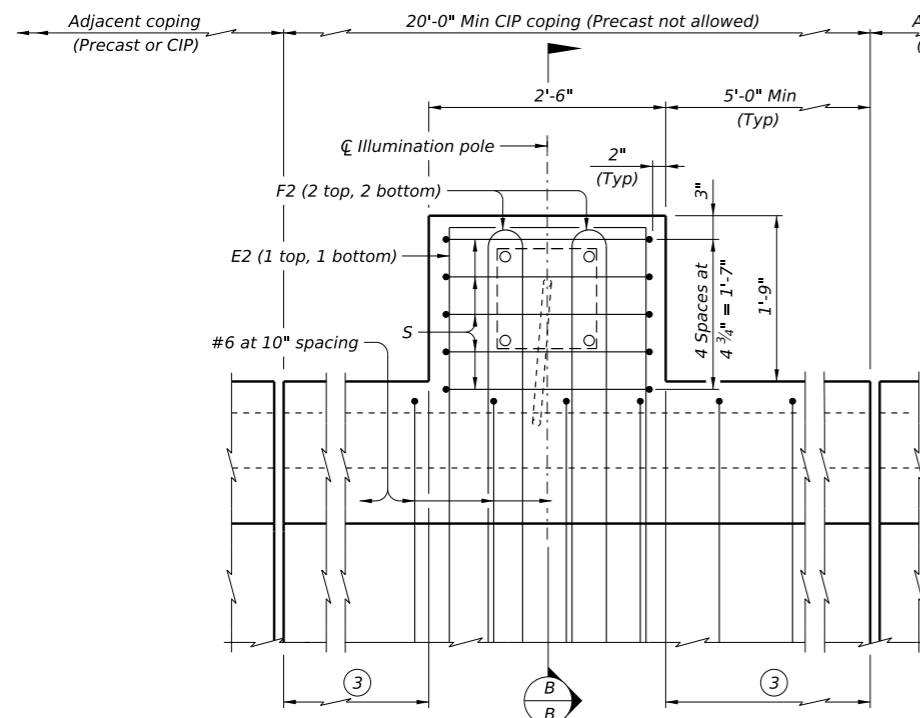
The anchor bolts, nuts, washers, and anchor bolt plates are subsidiary to the Item 610, "Roadway Illumination Assemblies."

The bracket quantity is considered subsidiary to the Item 423, "Retaining Walls."

Coping and anchor slabs is considered subsidiary to Item 423, "Retaining Walls."

Calculate traffic railing payment by the linear foot for railing of the appropriate type.

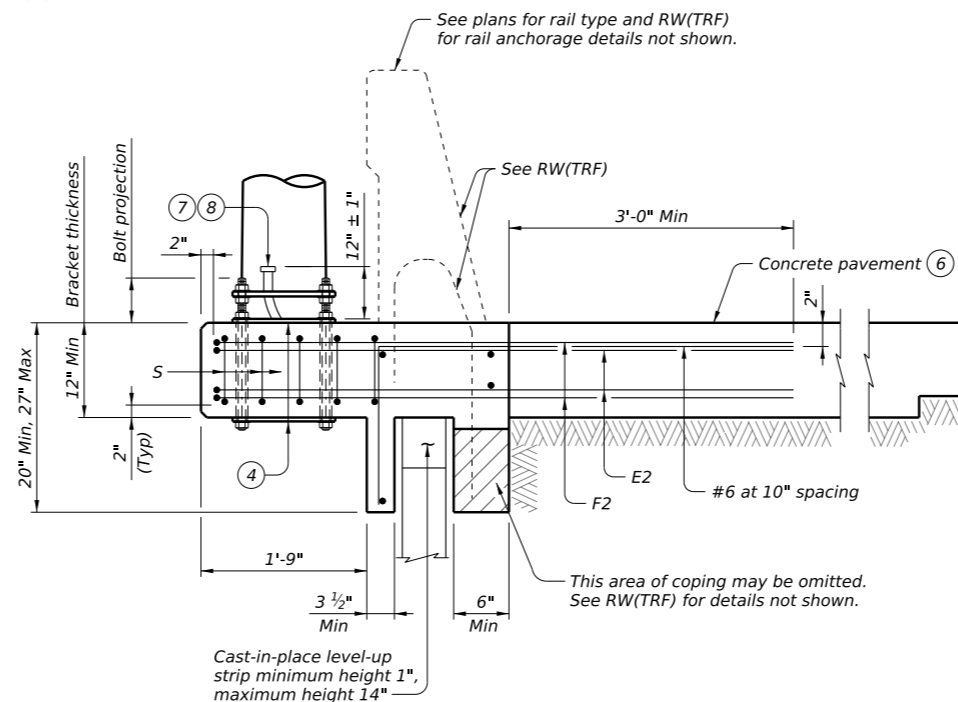
Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.



**PLAN**

See "Mounting Plan" for details not shown.

**ADJACENT TO CONCRETE PAVEMENT**



**SECTION B-B**

Longitudinal bars are #4 unless shown otherwise.

SHEET 1 OF 2



**LIGHTING BRACKET FOR MSE RETAINING WALL TRAFFIC RAIL FOUNDATION**

**RW(LB)**

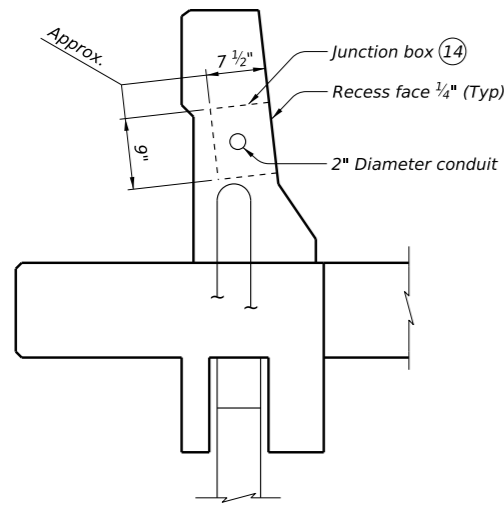
FILE: RW-LB-25.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2025	CONT	SECT	JOB	HIGHWAY
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	DIST	COUNTY	SHEET NO.	

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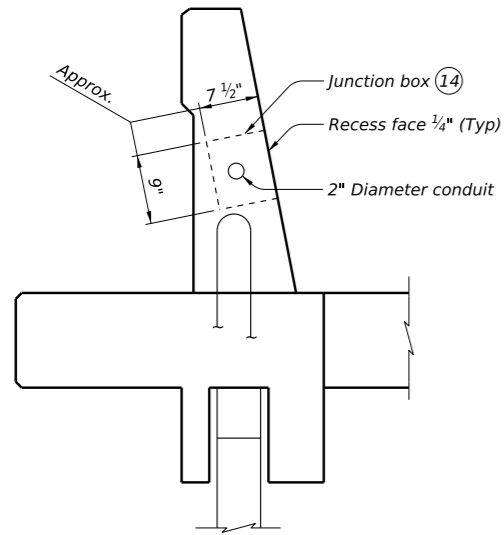
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TABLE OF ANCHOR BOLT AND ANCHOR BOLT PLATE INFORMATION						
Anchor Bolt Circle Diameter	Anchor Bolt Offset	Anchor Bolt Diameter	Anchor Bolt Hole Size		Top And Bottom Anchor Bolt Plate Size	Center Hole Diameter In Top Anchor Bolt Plate
			Concrete	Steel		
IN.	IN.	IN.	IN.	IN.	IN.	IN.
13	4 5/8	1	1 1/4	1 1/4	PL 1/2 X 13 X 1'-1"	9 1/2
15	5 5/16	1 1/4	1 1/2	1 1/2	PL 1/2 X 15 1/2 X 1'-3 1/2"	10 1/2

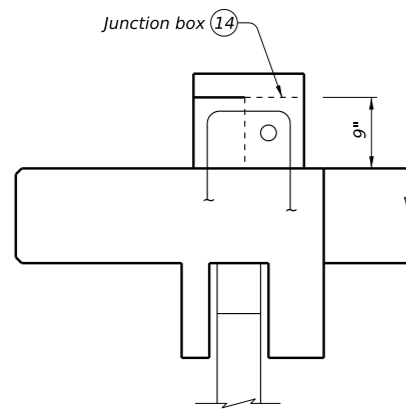
ESTIMATED QUANTITIES~ONE BRACKET			
Item	Unit	Quantity	
Concrete	(11) CY	0.2	
Reinforcing Steel	(11) LB	146	
Structural Steel	(11)(12) LB	112	
Conduit	(13) LF	4	



SHOWING T551, T552, AND T80HT



SHOWING SSTR AND T80SS

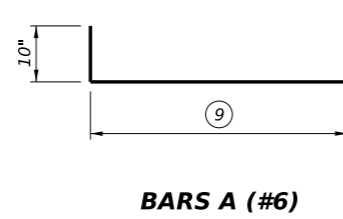


SHOWING T1F, T2P, T1W, T66, C2P, AND C1W CURB

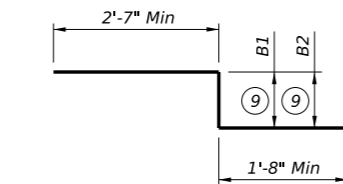
(See elevation view for curb modifications.)

**JUNCTION BOX LOCATION**

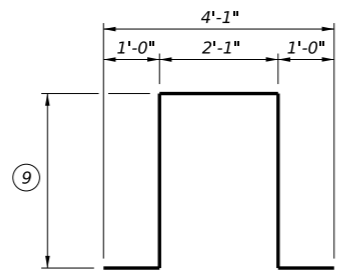
(Use these details as a guide in locating junction boxes in rail types not shown.)



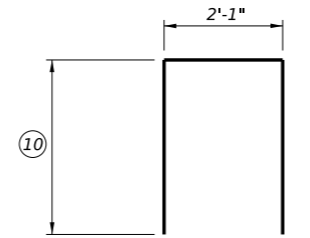
BARS A (#6)



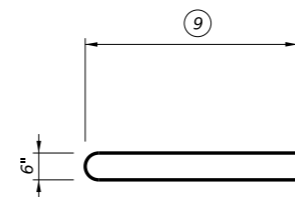
BARS B (#6)



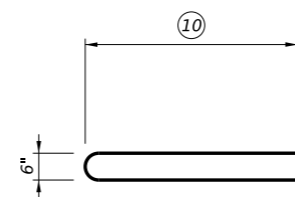
BARS E1 (#6)



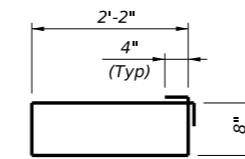
BARS E2 (#6)



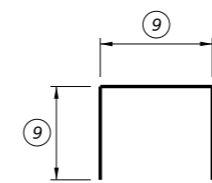
BARS F1 (#6)



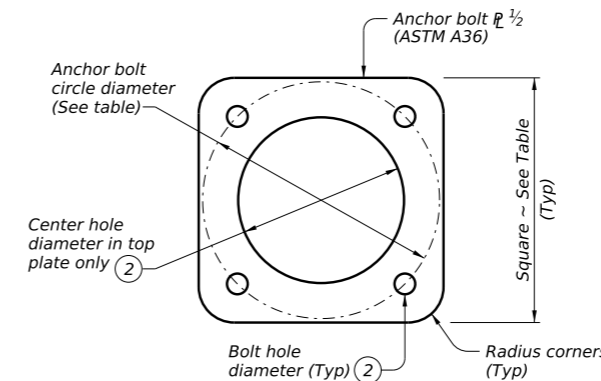
BARS F2 (#6)



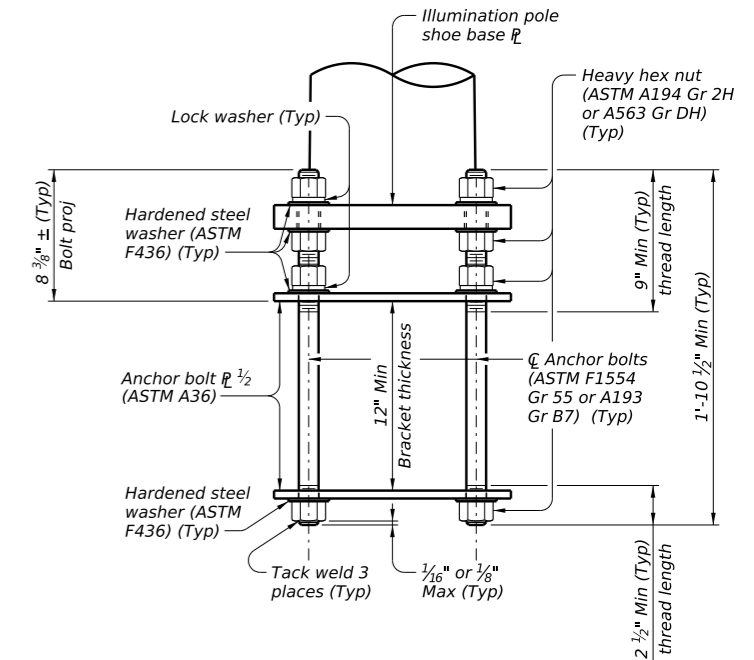
BARS S (#3)



BARS T (#4)

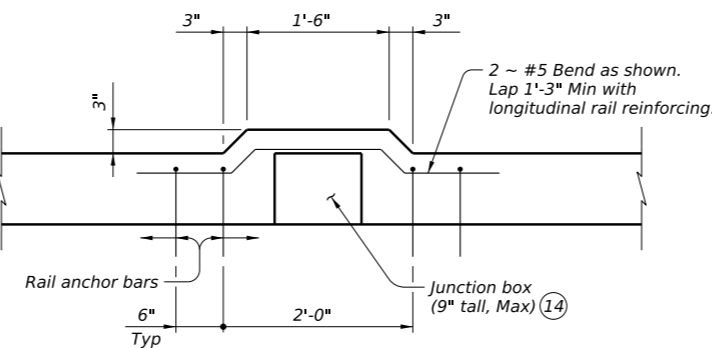


ANCHOR BOLT PLATE



ANCHOR BOLT ASSEMBLY

See table for anchor bolt diameter.



ELEVATION VIEW

For Rail Types T1F, T2P, T1W, T66, C2P, and C1W, center junction box between posts. Additional reinforcing and concrete required for this rail modification is considered subsidiary to the rail. Do not locate junction box in the same bay as a drain slot in rail curb.

**LIGHTING BRACKET FOR MSE RETAINING WALL TRAFFIC RAIL FOUNDATION**

**RW(LB)**

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