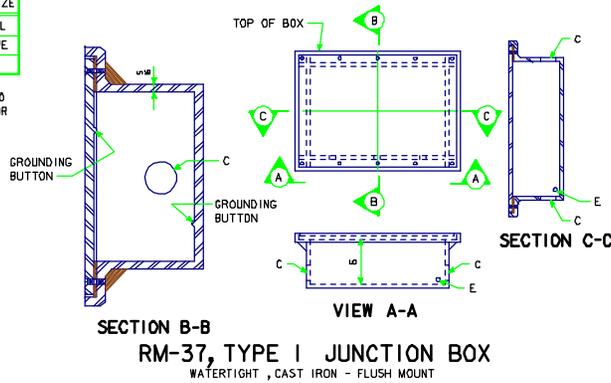


BOSSED FOR	HOLE	FOR CONDUIT SIZE
5 THREADS	C	2" RIGID STEEL
NONE	E	1/2" COPPER PIPE

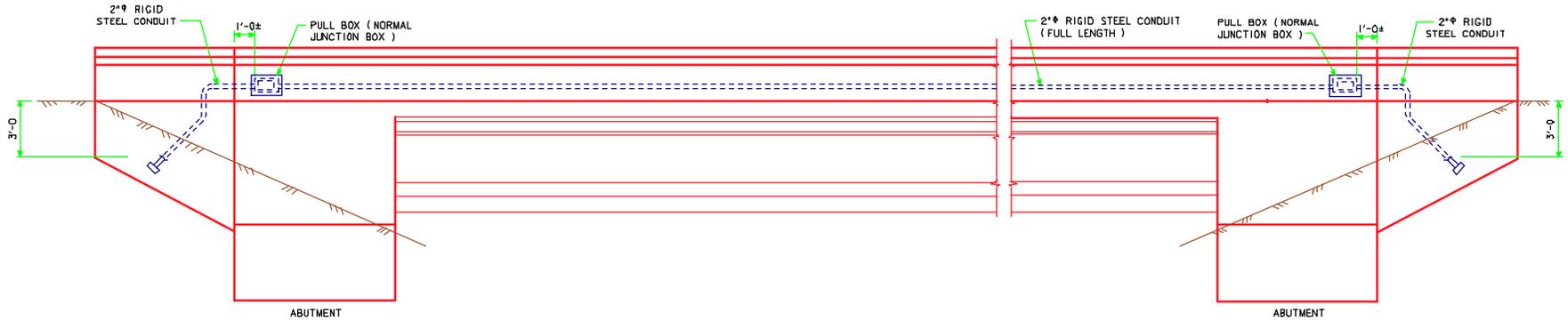
NOTE:
THE GROUNDING BUTTONS ARE TO BE BLIND DRILLED AND TAPPED FOR 1/4" x 0'-0" BOLTS.



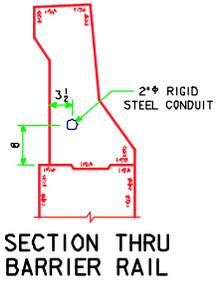
LIGHTING NOTES:

SEE RM-37 STANDARD ROAD PLAN FOR ADDITIONAL INFORMATION ON JUNCTION BOXES.
CONSTRUCTION SHALL CONFORM TO THE CURRENT IOWA D.O.T. STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
CONDUIT INSTALLATION SHALL COMPLY WITH THE ARTICLE "ELECTRICAL DUCTS", SECTION 2823.
ALL 6" ENTRANCE HOLES IN JUNCTION BOXES SHALL BE DRILLED AND TAPPED FOR THE SPECIFIED CONDUIT SIZE. ALL OTHER HOLES SHALL HAVE A CONCRETE - TIGHT SLIP FIT. CONDUIT ENDS SHALL NOT PROTRUDE INTO JUNCTION BOX MORE THAN 1". DRAIN PIPE END SHALL BE FLUSH WITH INSIDE SURFACE OF BOX. GROUNDING BUTTONS SHALL BE LOCATED APPROXIMATELY 3" FROM THE INSIDE SURFACE OF THE BOX WALL, AND NOT CLOSER THAN 3" TO THE EDGE OF ANY HOLE IN THE BOX FLOOR. HOLES FOR DRAIN PIPE SHALL BE PLACED IN THE LOW CORNER OF THE BOX, WITH A MINIMUM CLEARANCE OF 1" BETWEEN THE EDGE OF THE HOLE AND THE INSIDE SURFACE OF THE BOX WALL. TYPICAL DETAILS ARE SHOWN ON THIS SHEET.
THE RIGID STEEL CONDUIT, JUNCTION BOXES AND FITTINGS INCLUDING LABOR AND ANY ADDITIONAL WORK TO DO THE INSTALLATION IS CONSIDERED INCIDENTAL TO THE COST OF THE RAILING.
SEE ESTIMATED REFERENCE INFORMATION FOR CONCRETE BRIDGE RAILING TO DETERMINE WHICH RAIL CONTAINS THE CONDUIT.

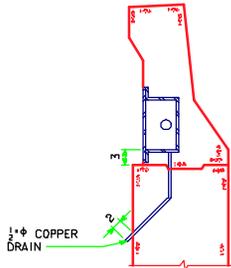
RM-37, TYPE I JUNCTION BOX
WATERTIGHT, CAST IRON - FLUSH MOUNT



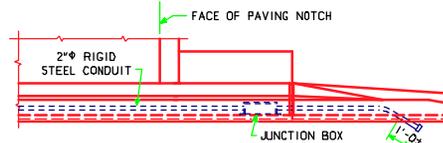
EXTERIOR ELEVATION



SECTION THRU BARRIER RAIL



SECTION THRU JUNCTION BOX



PART PLAN AT WING

LATEST REVISION DATE <i>Matthew C. McDaniel</i> APPROVED BY BRIDGE ENGINEER		
	STANDARD DESIGN - 30' ROADWAY, 2 SPAN BRIDGES PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES JULY, 2004	
	JUNCTION BOX AND CONDUIT DETAILS	BT30-CD1-04