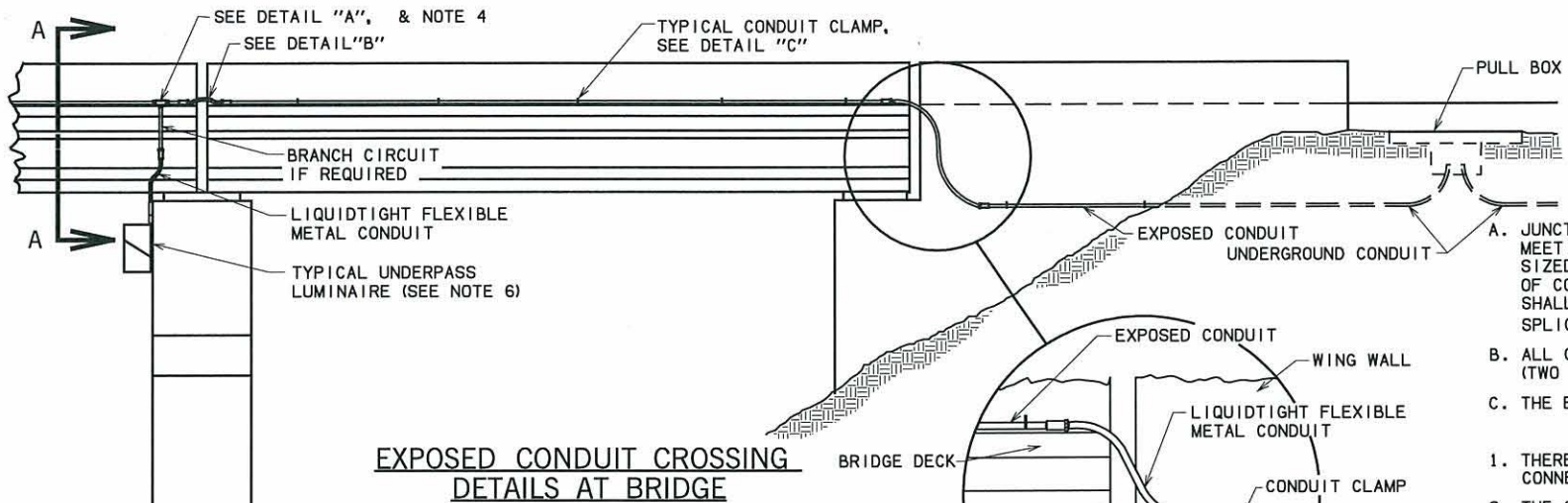
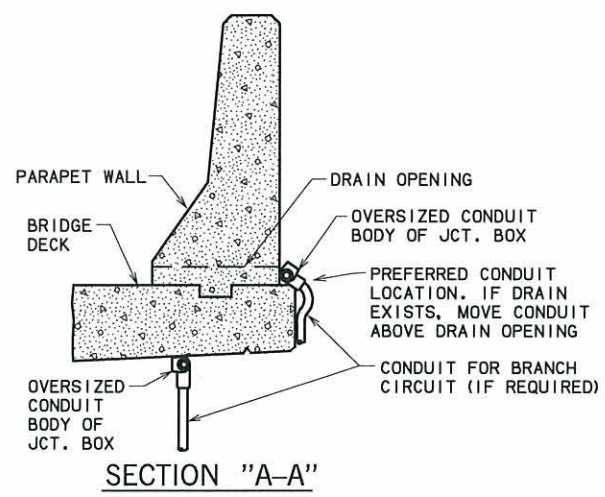
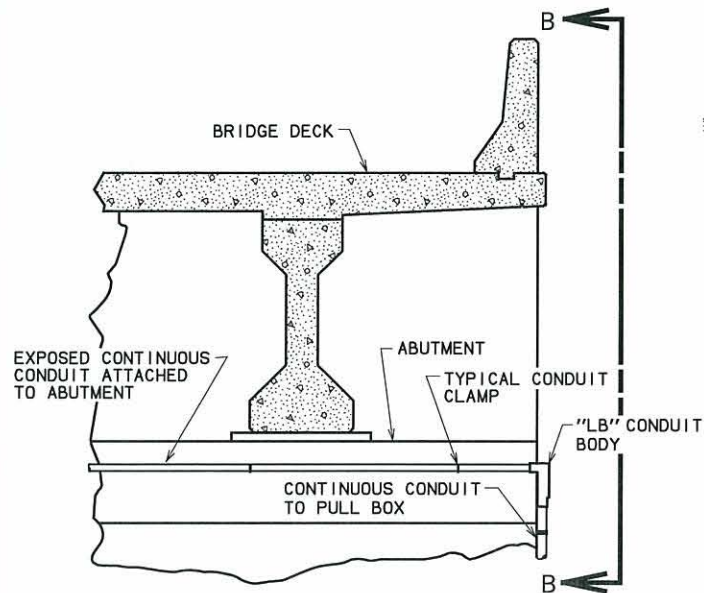


DESCRIPTION	REVISIONS	DATE

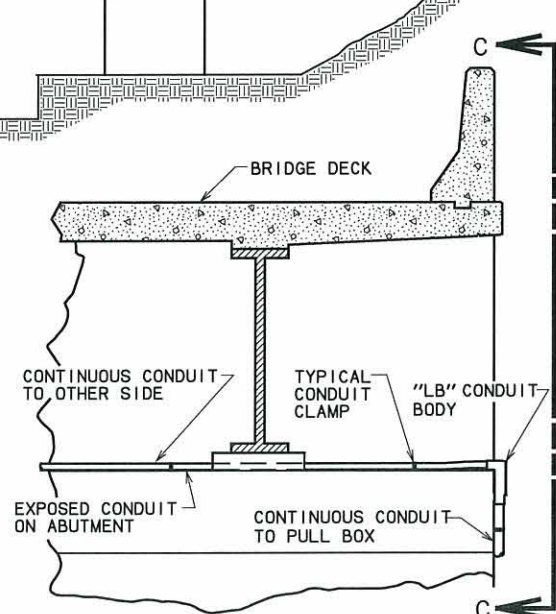


**EXPOSED CONDUIT CROSSING  
DETAILS AT BRIDGE**

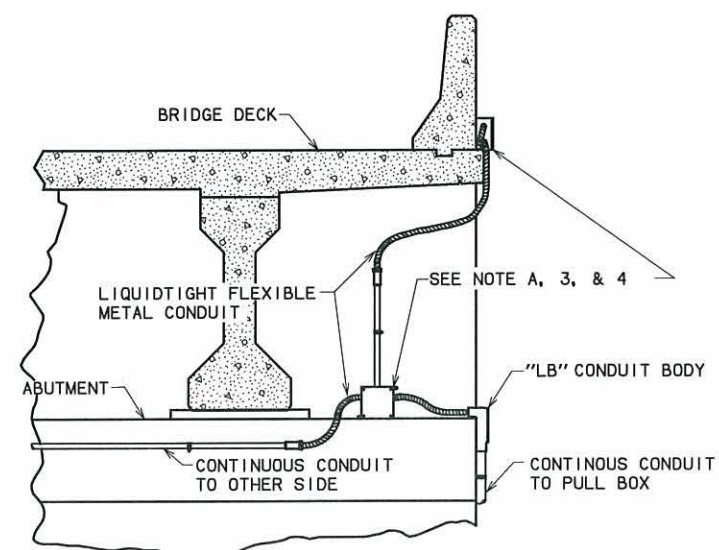
- MATERIAL SPECIFICATIONS**
- A. JUNCTION BOXES SHALL BE EITHER CAST ALUMINUM OR GALVANIZED CAST IRON MEETING THE REQUIREMENTS OF NEMA 4, OR 5. THE JUNCTION BOX SHALL BE SIZED ACCORDING TO THE REQUIRED NUMBER OF TAP SPLICES AND THE NUMBER OF CONDUITS ENTERING THE BOX. THE MINIMUM SIZE OF A JUNCTION BOX SHALL BE 6"x6"x4" (WxLxD), OR AS SPECIFIED ON THE PLANS. SPLICES IN JUNCTION BOXES SHALL BE WATERPROOF.
  - B. ALL CONDUIT CLAMPS SHALL BE GALVANIZED MALLEABLE IRON. (TWO HOLE CLAMPS MAY BE USED)
  - C. THE EXPANSION BOLTS FOR CONDUIT CLAMPS SHALL BE STAINLESS STEEL.
- GENERAL NOTES**
1. THERE SHALL BE A CONDUIT CLAMP APPROX. 1'-6" FROM ANY TYPE OF CONNECTION SUCH AS CONDUIT BODY, JCT. BOX, FLEXIBLE CONDUIT, ETC...
  2. THE CONTRACTOR SHALL NOT DRILL THROUGH REINFORCING STEEL. IF STEEL IS ENCOUNTERED WHEN DRILLING HOLES IN CONCRETE, THE CONTRACTOR SHALL ADJUST THE LOCATION FOR BOLTS AND FILL ORIGINAL HOLE WITH GROUT.
  3. TAP SPLICES FOR THE MAIN FEEDER CIRCUITS SHALL BE MADE IN A JUNCTION BOX.
  4. TAP SPLICES FOR A BRANCH CIRCUIT SHALL BE MADE IN A JUNCTION BOX OR A CONDUIT BODY WHICH HAS BEEN OVERSIZED BY AT LEAST TWO SIZES.
  5. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE INSTALLED WHERE THERE WILL BE EXPANSION AND CONTRACTION OF THE STRUCTURE AND WHERE MOVEMENT OF THE STRUCTURE WOULD CAUSE DAMAGE TO THE RIGID GALV. STEEL CONDUIT. THE FLEXIBLE CONDUIT SHALL BE AT LEAST 2 FT. IN LENGTH AND IT SHALL BE MADE LONGER IF NECESSARY. THIS CONDUIT SHALL PAID FOR AS RIGID GALVANIZED CONDUIT (EXPOSED).
  6. FOR TYPICAL UNDERPASS LUMINAIRE AND CONDUIT INSTALLATION DETAILS, SEE STANDARD UPD1-1-, AND UPD2-1-(LATEST REVISION).



**CONDUIT CROSSING AT ABUTMENT  
(CONCRETE I-BEAM STRUCTURE)**



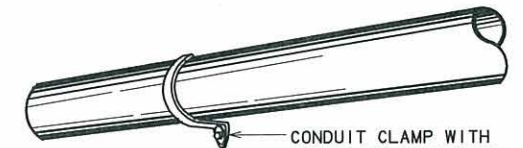
**CONDUIT CROSSING AT ABUTMENT  
(STEEL I-BEAM STRUCTURE)**



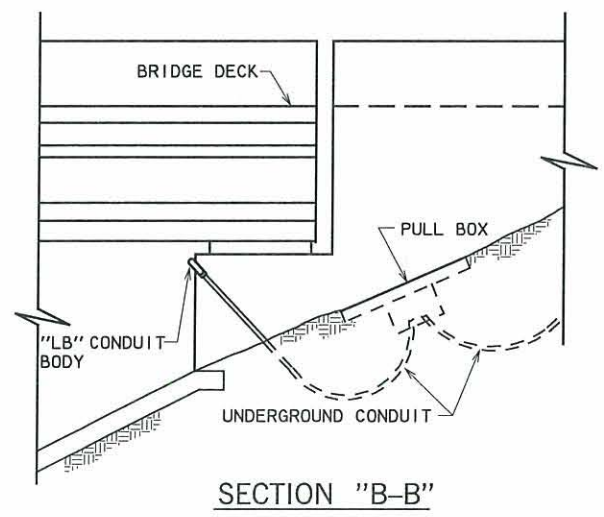
**JUNCTION BOX CONNECTIONS**

**CONDUIT CLAMP ATTACHMENT TABLE**

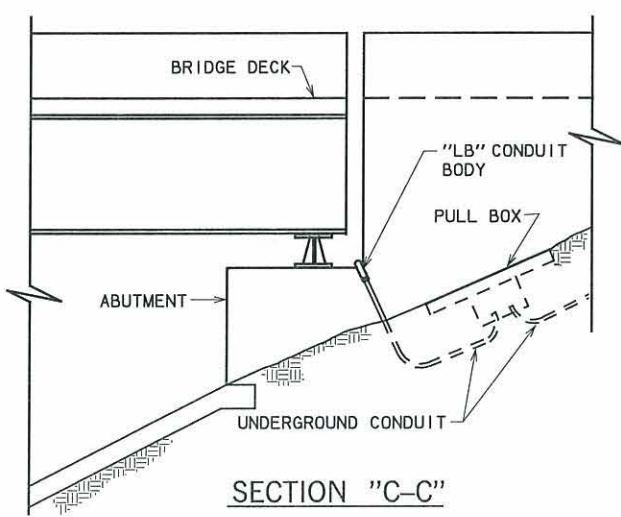
CONDUIT SIZE INCHES	MAX. DIST. BETWEEN SUPPORTS (C/C FEET)	EXPANSION BOLT MIN. REQ.		
		DIAM./TH. PER IN.	OVERALL LENGTH INCHES	EMBEDMENT INCHES
1/2, 3/4, 1	5' - 0"	1/4 - 20	2 1/4	1 3/8
1 1/4, 1 1/2	5' - 0"	3/8 - 16	2 3/4	1 3/4
2, 2 1/2, 3	4' - 0"	1/2 - 13	3 3/4	2 1/4



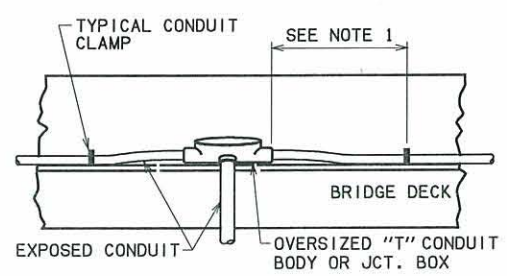
**DETAIL "C"**  
CONDUIT CLAMP WITH EXPANSION BOLT (SEE NOTE B, C, AND CONDUIT CLAMP ATTACHMENT TABLE)



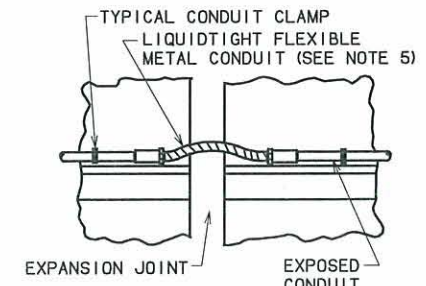
**SECTION "B-B"**



**SECTION "C-C"**



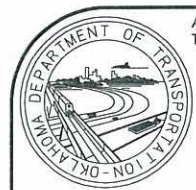
**DETAIL "A"**



**DETAIL "B"**

**BASIS OF PAYMENT**

ITEM NO.	ITEM	UNIT
B02(A)	GALVANIZED STEEL ELECTRICAL CONDUIT	LF
B02(B)	POLYVINYL CHLORIDE (PVC) CONDUIT	LF
B02(C)	HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT	LF
B02(D)	ALUMINUM CONDUIT	LF
B02(E)	JUNCTION BOX	EA



APPROVED BY TRAFFIC ENGINEER *Handwritten Signature* DATE: 8/5/10  
TRAFFIC STANDARD

**TYPICAL CONDUIT CONSTRUCTION DETAILS  
(FOR EXPOSED CONDUIT INSTALLTION)**