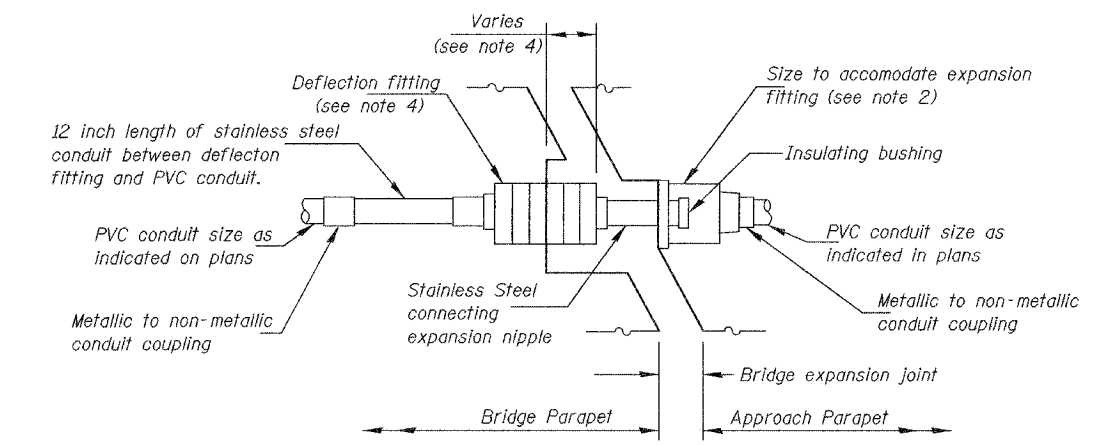
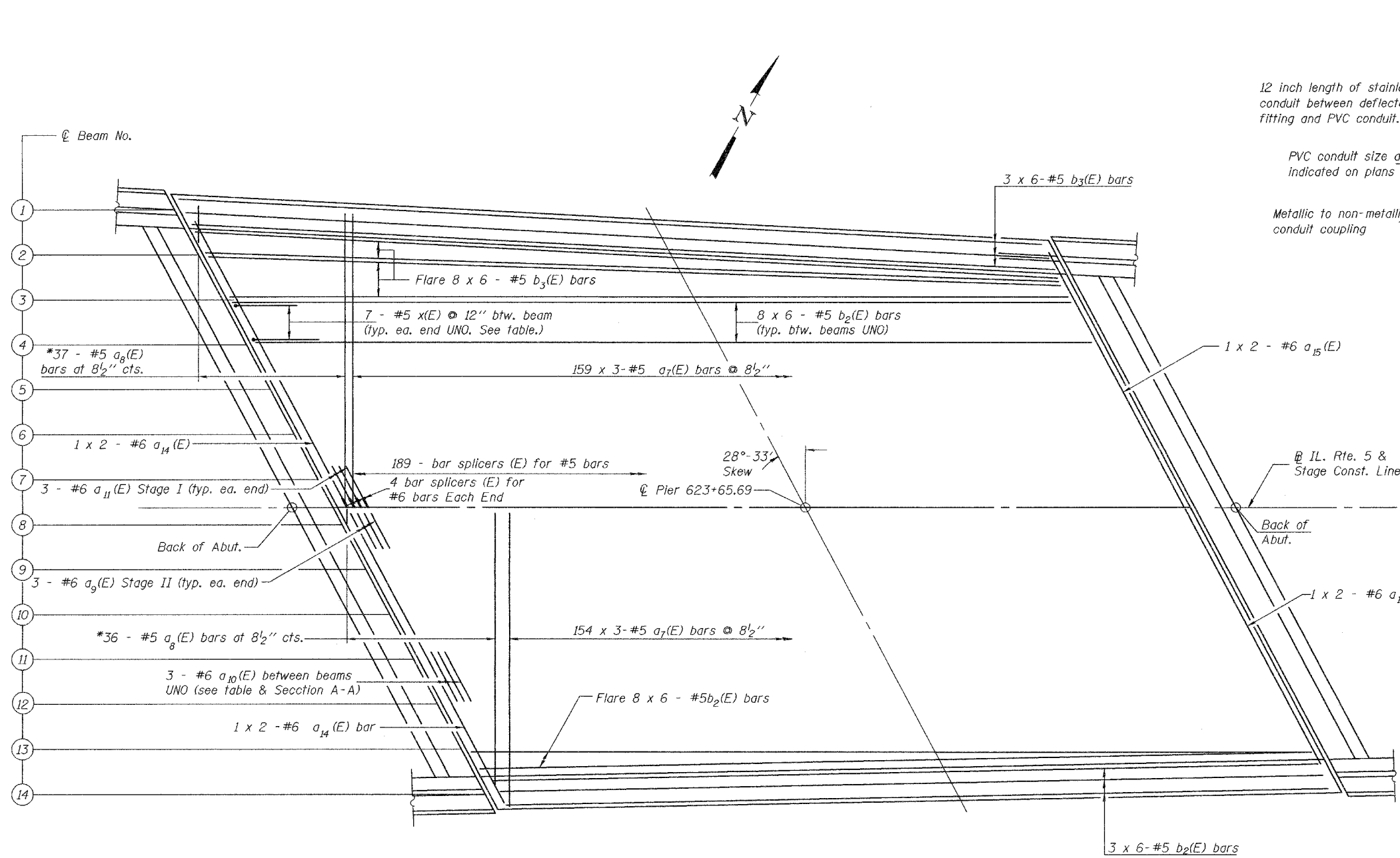


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 595	5HBR	Rock Island	139	63
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #64931



**CONDUIT EXPANSION/
DEFLECTION COUPLING DETAIL**

- Notes:
1. The Contractor shall install a conduit expansion / deflection coupling at the joints in the concrete parapet base on the west side of the bridge capable of accepting the longitudinal movement. The coupling shall be made of stainless steel and subject to approval by the Engineer. The cost of the coupling shall be included with Conduit Embedded in Structure, 2" ϕ PVC.
 2. The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint.
 3. Conduit bends and radii shall be according to the Standard Specifications.
 4. A cavity opening, if required, shall be 3" larger diameter than the deflection sleeve diameter and a maximum depth of half of the deflection sleeve length. The deflection fitting will be center in the opening and embedded in the concrete only up to the deflection fitting center.
 5. Expansion/Deflection Coupling shall accommodate an expansion range of 4".
 6. All metallic parts shall be stainless steel.

* Order $a_8(E)$ bars full length.
Cut to fit skew and use remainder of bars in opposite end.

MIN. BAR LAPS
#5 = 1'-8"
#6 = 2'-7"

Note: Parapet not shown for clarity.

PLAN - BOTTOM REINFORCEMENT

Location	"a" bars Bottom of Slab at End of Deck		No. x(E) bars at End of Deck	
	S. Abut.	N. Abut.	S. Abut.	N. Abut.
Beam 1-2		$a_{13}(E)$		3
Beam 2-3		$a_{12}(E)$		3
Beam 13-14	$a_{15}(E)$	$a_{12}(E)$	6	3

Notes:
Work this sheet with sheet 12 of 33.

DESIGNED	Dewey H. Coultas
CHECKED	Chad E. Hodel
DRAWN	W.D. Collins
CHECKED	D.H.C./C.E.H.

October 5, 2007
 EXAMINED *Thomas J. Donagabadi*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
IL. RTE. 5 OVER IL. RTE. 84
F.A.P. RTE. 595 - SECTION 5HBR
ROCK ISLAND COUNTY
STATION 623+65.69
S.N. 081-0169