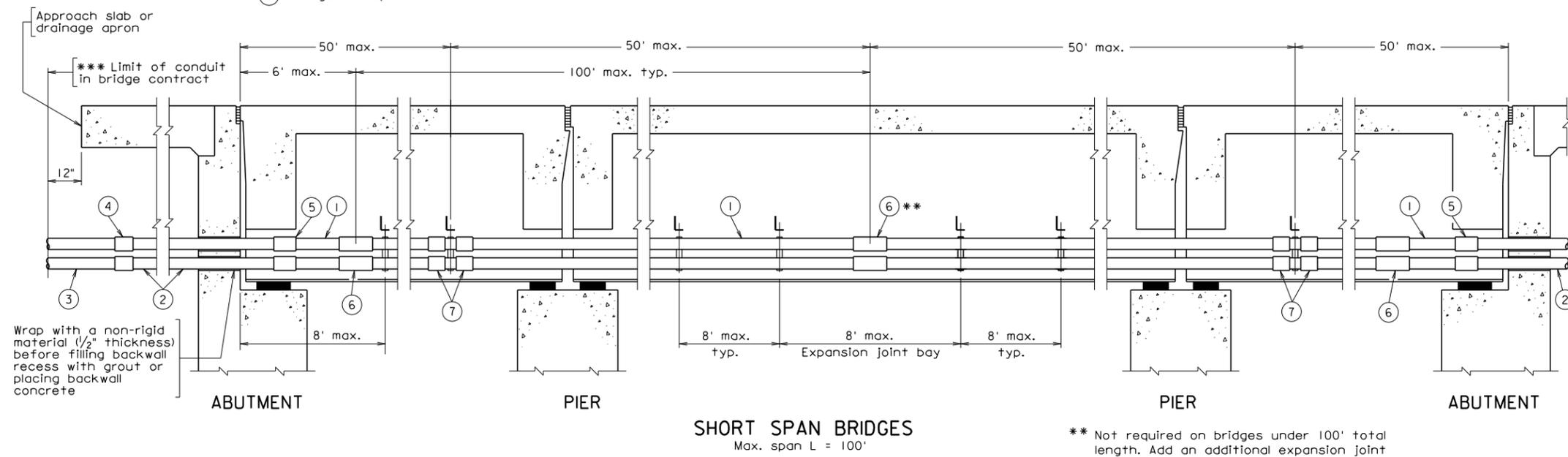


STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			

- ① 4" ϕ PVC-D duct
- ② 4" ϕ galv. steel duct
- ③ 4" ϕ PVC-B duct
- ④ PVC-galv. adaptor
- ⑤ Galv.-PVC adaptor
- ⑥ PVC exp. joint
- ⑦ PVC lock ring

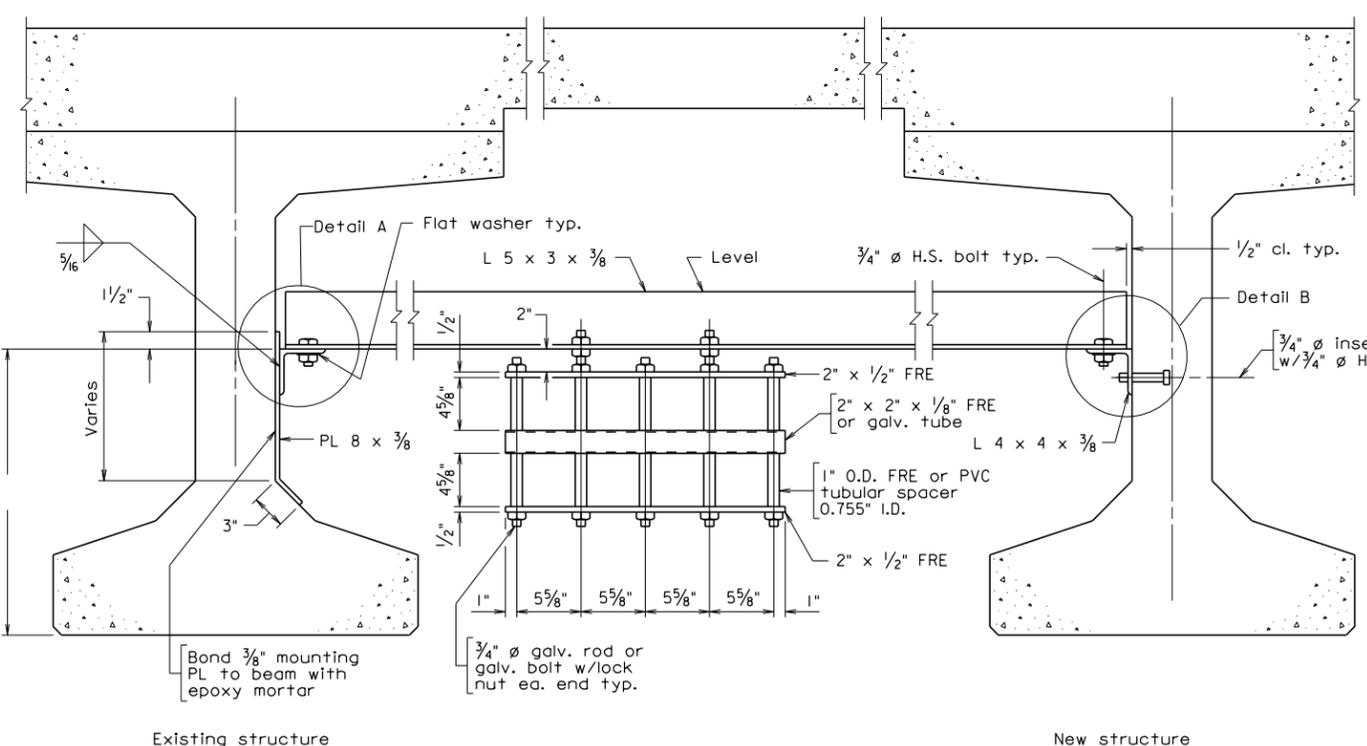
*** Limit of telephone conduit in bridge contract when approach slabs or drainage aprons are not used shall be the extension of the conduit a minimum of one foot behind back of backwall



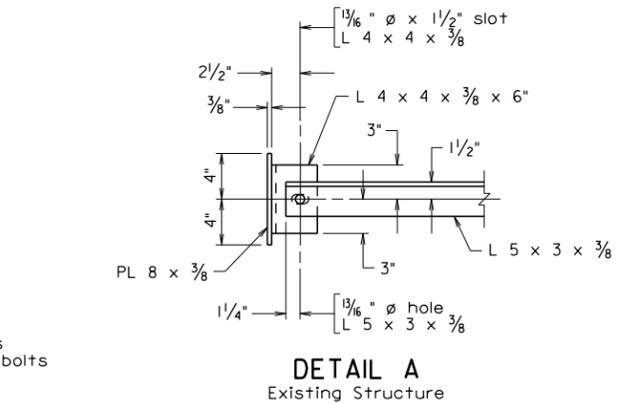
SHORT SPAN BRIDGES
Max. span L = 100'

** Not required on bridges under 100' total length. Add an additional expansion joint for every 100' (or fraction thereof) length greater than 200'.

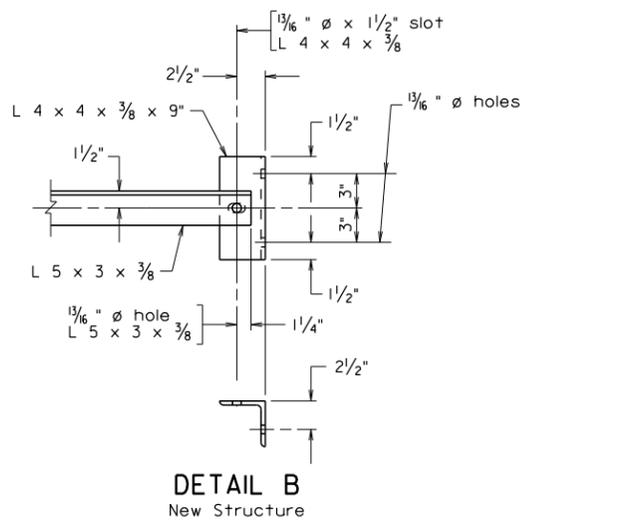
Notes:
 PVC conduit shall be PVC-B in buried locations and PVC-D in exposed locations, and shall meet the requirements of AT&T Specification AT-8546.
 Duct splices shall be adhesive bonded bell and spigot.
 Expansion joints shall be sliding sleeve type to accommodate at least 6" of expansion travel.
 Threaded couplings shall be used on steel conduit.
 Steel fittings and rods shall be galvanized in accordance with ASTM A153.
 Structural steel for angles shall be ASTM A36. The angles shall be galvanized in accordance with ASTM A123.
 H.S. bolts for angles shall be ASTM A325 galvanized.
 Hanger details shown are designed to support as many as 12 conduits.
 Dead Loads: Cables: 8.5 lbs./ft. per conduit
 Conduit: 1.5 lbs./ft.
 Under ground installation of PVC-B duct shall be in accordance with Road and Bridge Standards ECI-1 except the minimum spacing between ducts shall be 3/4".
 Payment - Telephone Conduit System shall be paid for on a lump sum basis, wherein no measurement shall be made, and shall be paid for at the contract lump sum price. Price shall include furnishing and installing conduit, supporting angles, connections, all related parts/attachments and miscellaneous hardware; all as detailed on the Telephone Conduit System drawing included herein and within the pay limits shown thereon. Such price shall be full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work.



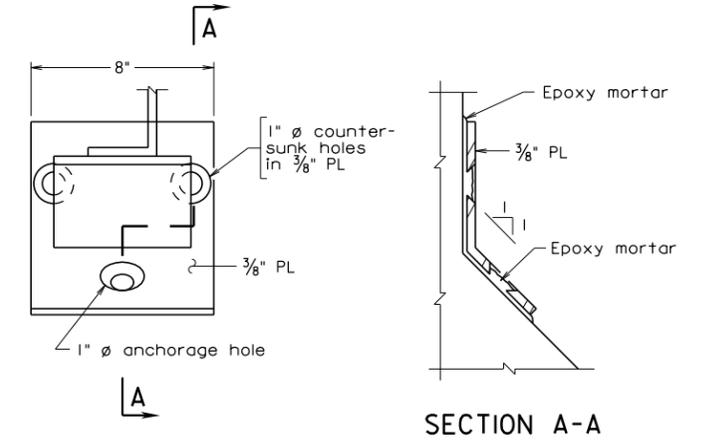
TYPICAL SUPPORT DETAIL



DETAIL A
Existing Structure



DETAIL B
New Structure



ELEVATION

SECTION A-A

MOUNTING PLATE DETAIL

CONDUIT FORMATIONS

Number of conduits	2	4	6	8	12
Preferred formation					
Alternate formation					

BTC-6

Sealed and Signed by:
 Julius F.J. Volgyi, Jr.
 Lic. No. 010487
 On the date of
 Aug. 7, 2012

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION
 RICHMOND, VA
 STRUCTURAL ENGINEER

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION					
TELEPHONE CONDUIT SYSTEM					
G. Henderson					
No.	Description	Date	Designed: S&B, DIV	Date	Plan No.
			Drawn: S&B, DIV		BTC-6
			Checked: S&B, DIV		
Revisions					

TELEPHONE CONDUIT SYSTEM
PVC CONDUIT
PRESTRESSED CONCRETE BEAM SPANS

NOTES TO DESIGNER:

Standard is for use with: PVC conduit
prestressed concrete Bulb-T beam spans

Show dimension from bottom of beam to bottom of angle support at the beam/girder the dimension is set on the transverse section sheet. When setting the dimension, allow for a minimum of 1" (2" to 3" preferred) clearance to diaphragms, cross frames, etc. Include insulation requirements when setting clearances.

Utilities shall be placed in the exterior bays of the bridge if possible.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

TYPICAL SUPPORT DETAIL:

Enter dimension from bottom of beam to L 5 x 3 x $\frac{3}{8}$ support. This must agree with dimension set on transverse section sheet.