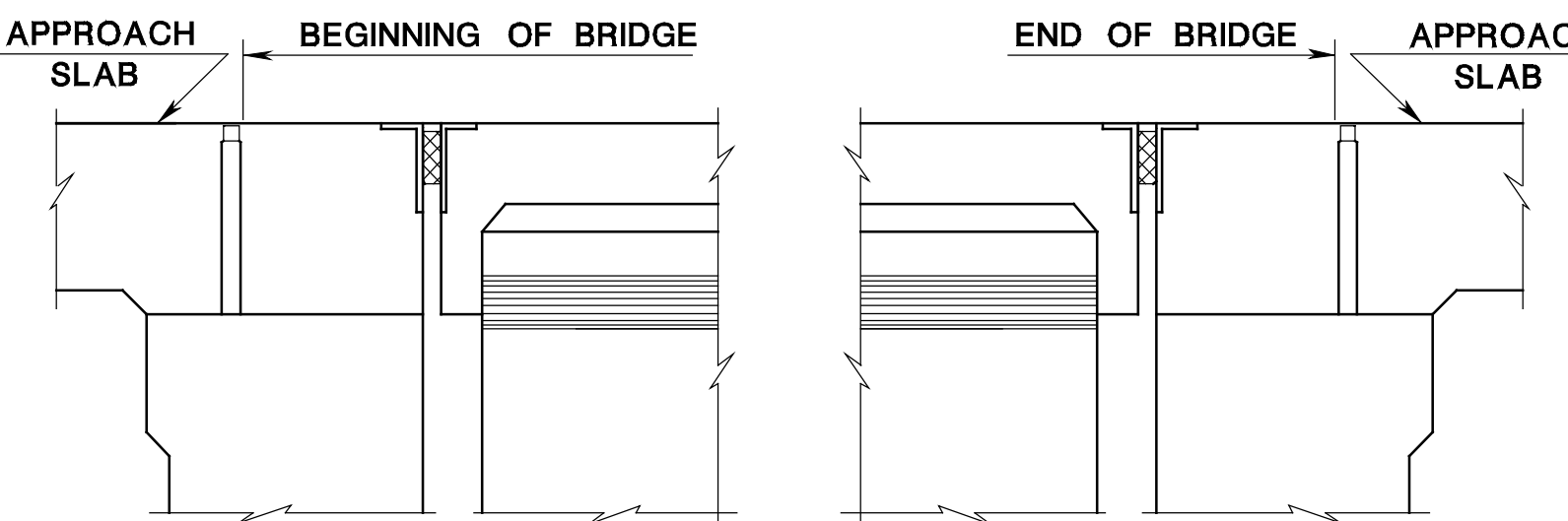
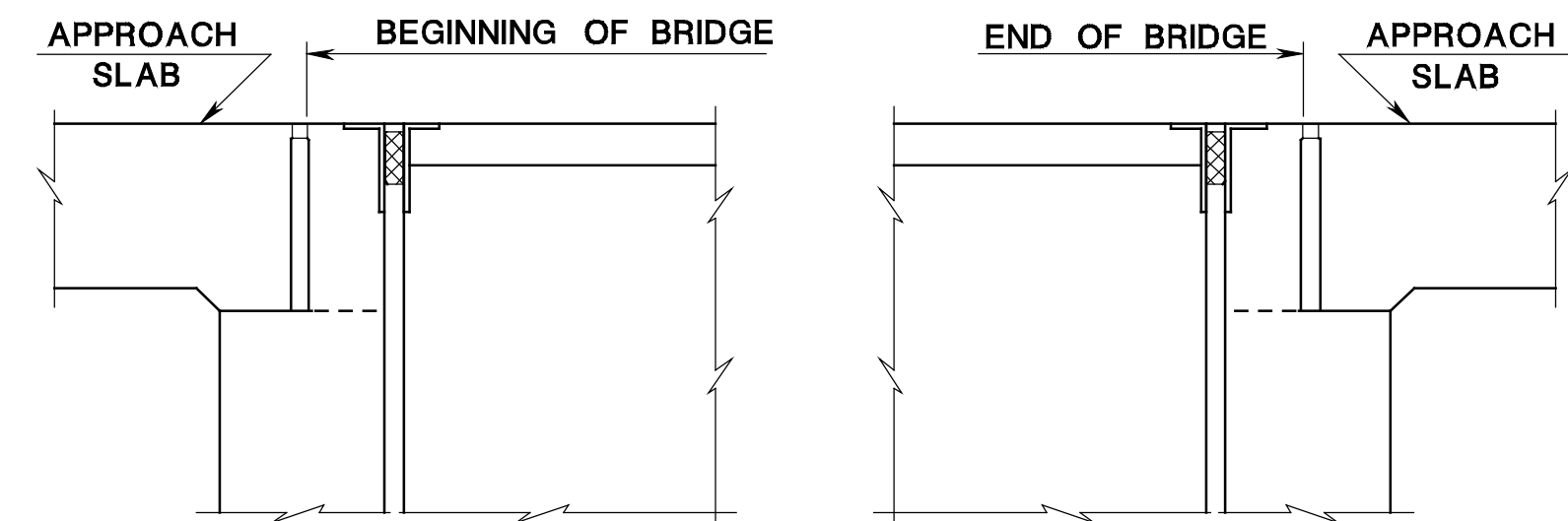


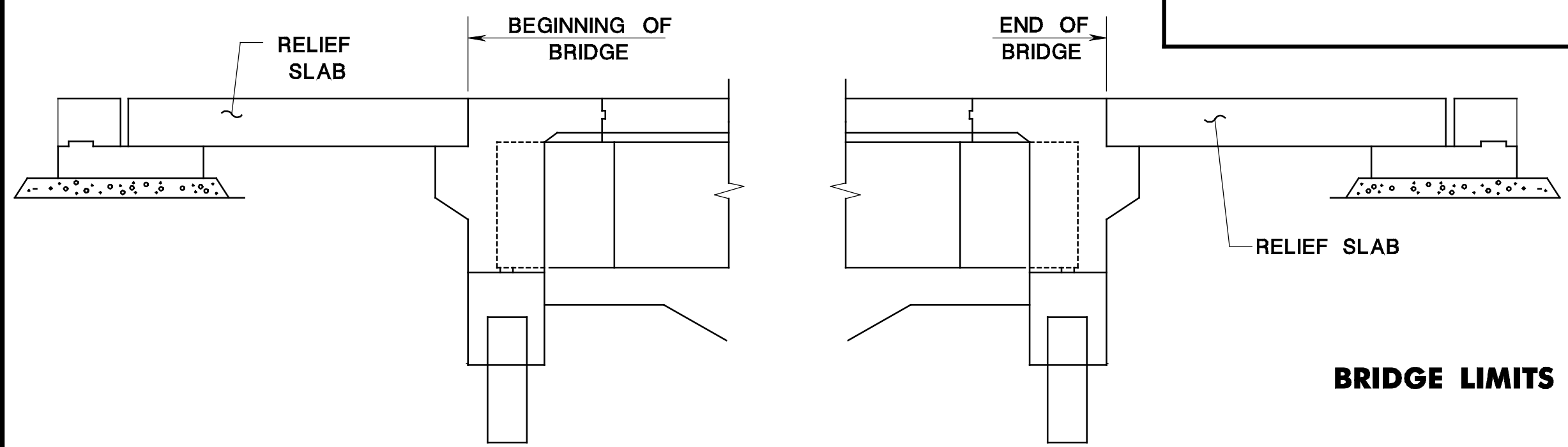
**STEEL STRINGERS**



**P.C.I. BEAMS**

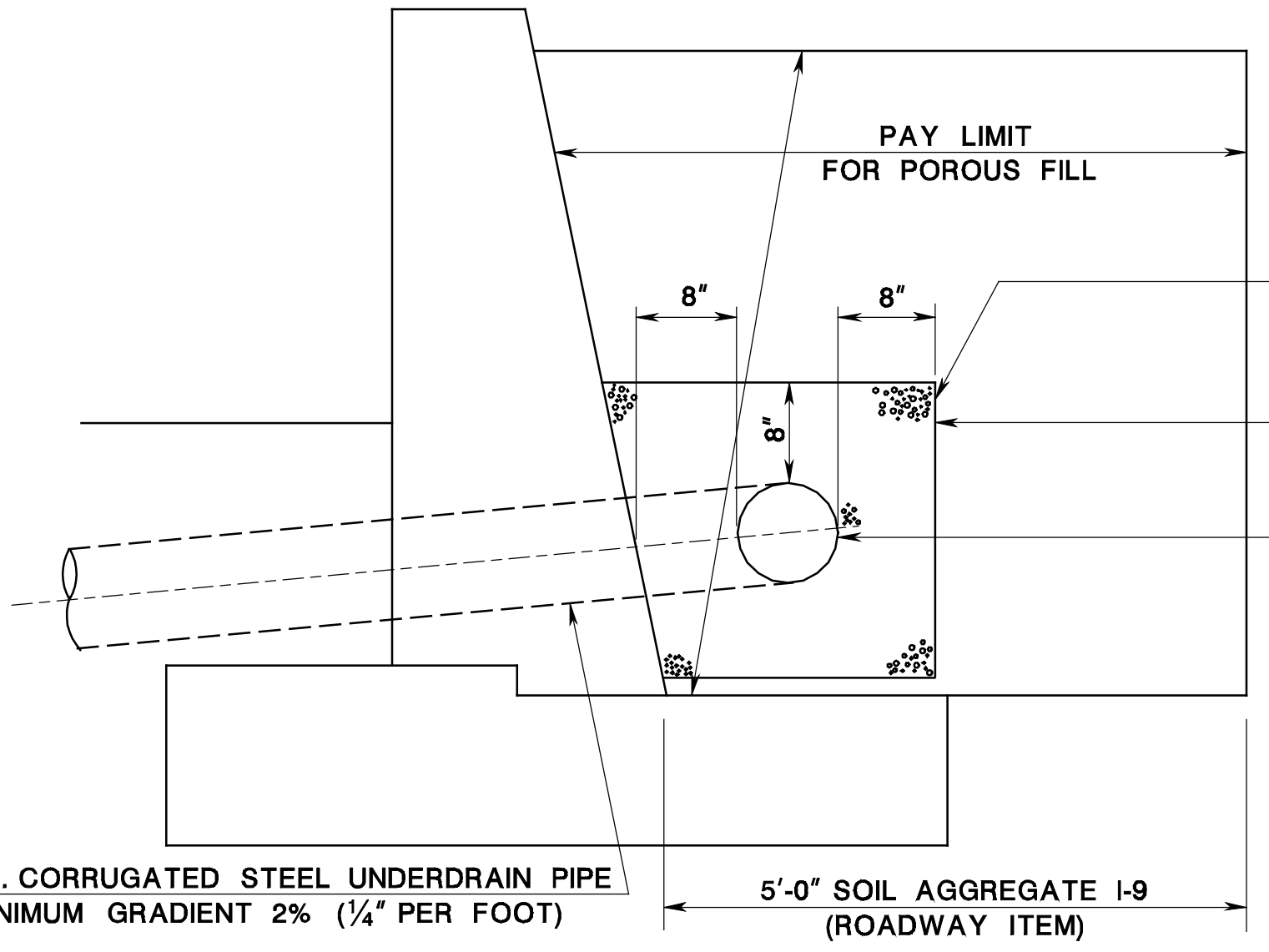


**P.C. SLAB AND BOX BEAMS**



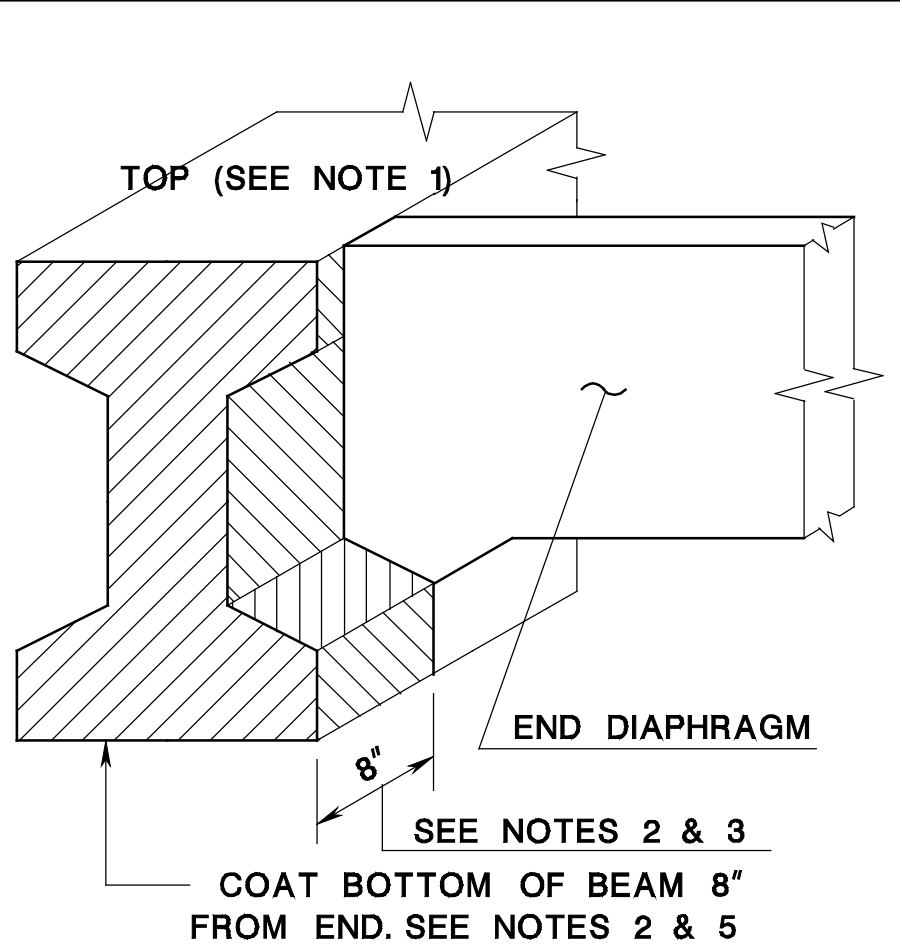
**INTEGRAL ABUTMENT**

BCD-504-2.1



**DRAINAGE BACK OF WALL**

BCD-504-2.4



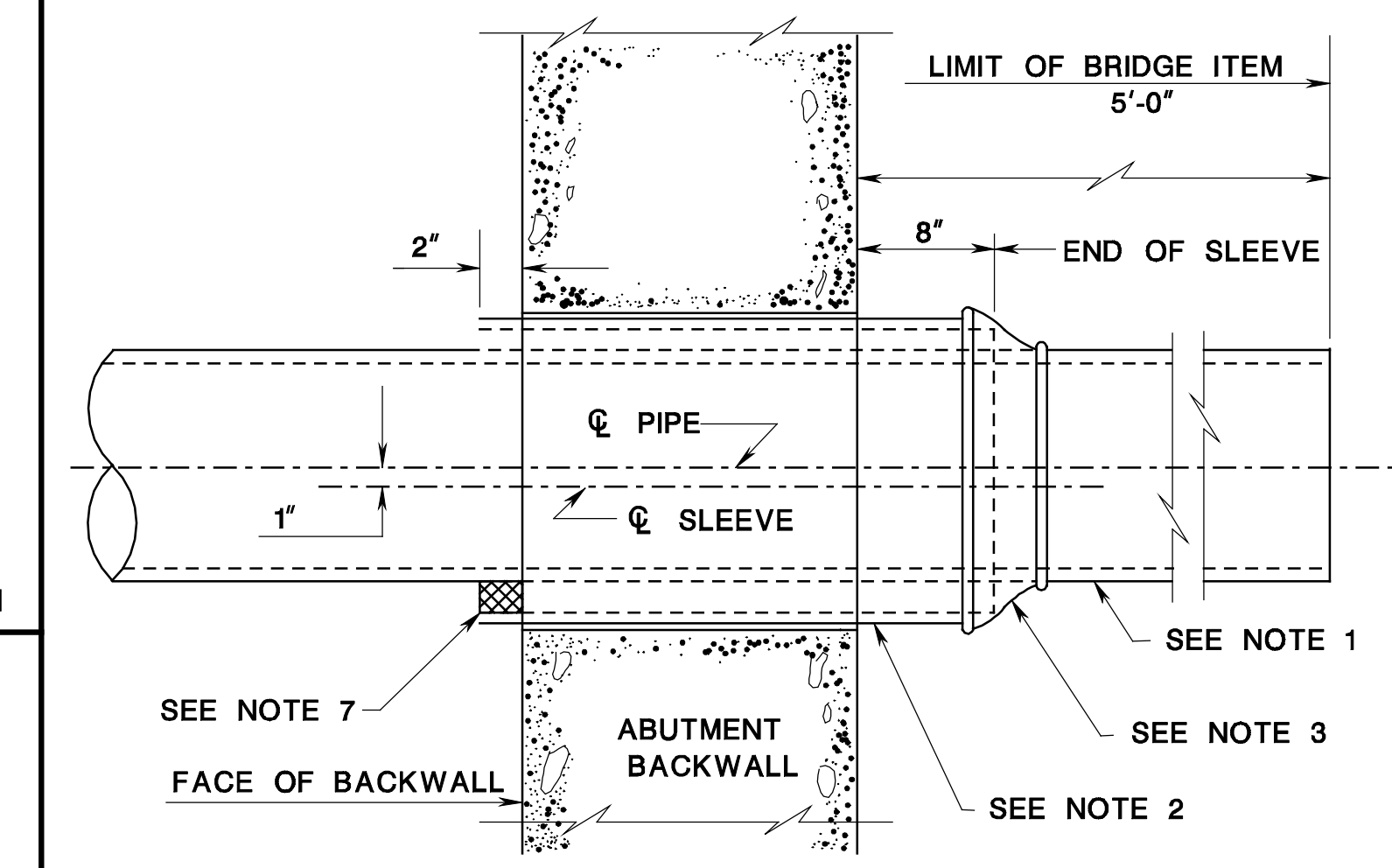
**INTERIOR FACE OF BEAMS**

**NOTES:**

- 1 NO SEALER SHALL BE APPLIED TO THE TOP SURFACE OF ANY BEAM.
- 2 SEALER SHALL BE APPLIED TO THE ENDS, BOTTOMS AND EXTERIOR SIDES OF FASCIA BEAMS FOR ALL ADJACENT BOX BEAMS. SIDES OF INTERIOR BOX BEAMS SHALL NOT BE COATED. SEALER SHALL BE APPLIED TO THE ENDS, SIDES AND BOTTOMS OF ALL I-BEAMS.
- 3 THE SEAL COAT SHALL ONLY BE APPLIED TO BEAM ENDS UNDER DECK JOINTS.
- 4 VOIDED SLAB BEAMS SIMILAR TO BOX BEAM DETAILS FOR EPOXY WATERPROOFING LIMITS.
- 5 EPOXY WATERPROOFING SEAL COAT SHALL BE OMITTED FROM THE BEARING CONTACT AREAS FOR VARIOUS TYPES OF BEARINGS, CHECK BEARING MANUFACTURER'S RECOMMENDATIONS.

**PRESTRESSED CONCRETE I-BEAMS, VOIDED SLAB AND BOX BEAMS EPOXY WATERPROOFING WITH GRIT LIMITS**

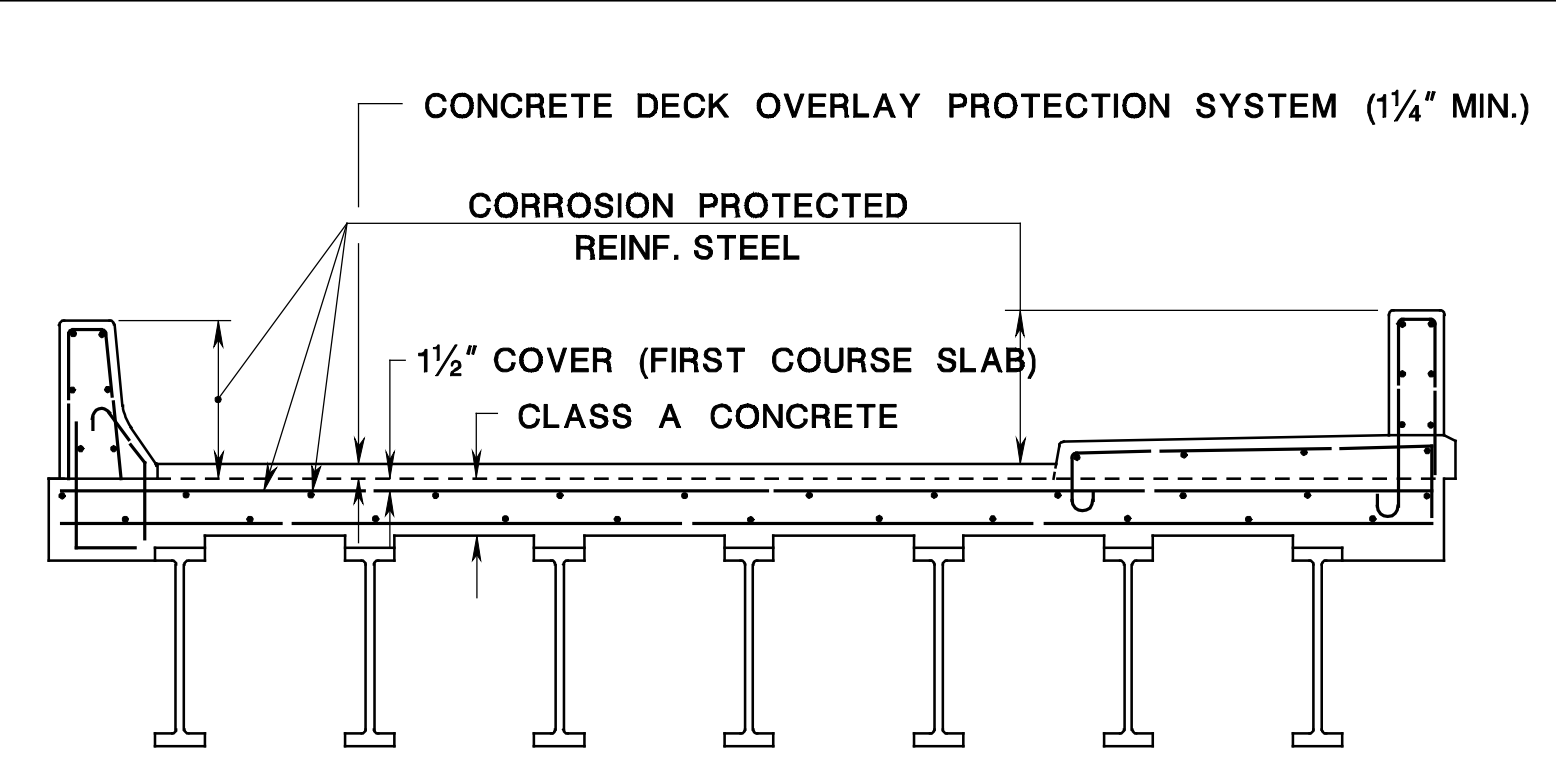
BCD-504-2.2



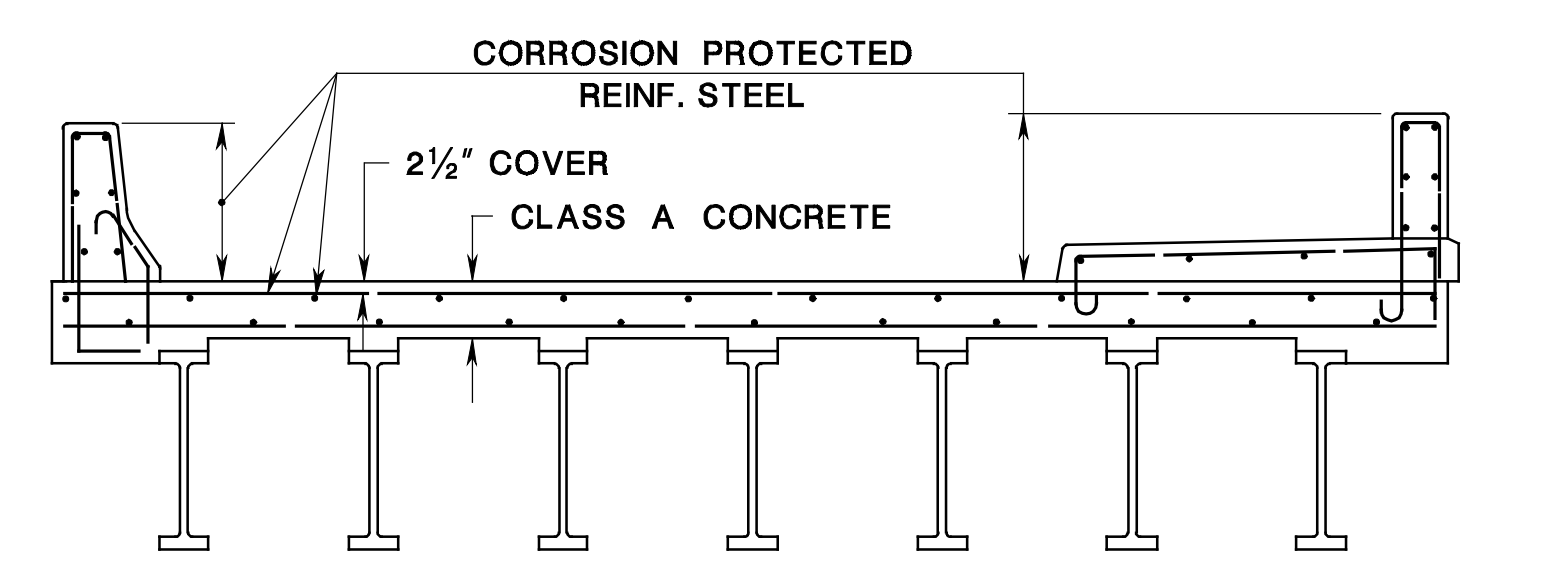
**SLEEVE DETAIL FOR STEEL GAS MAINS**

**NOTES:**

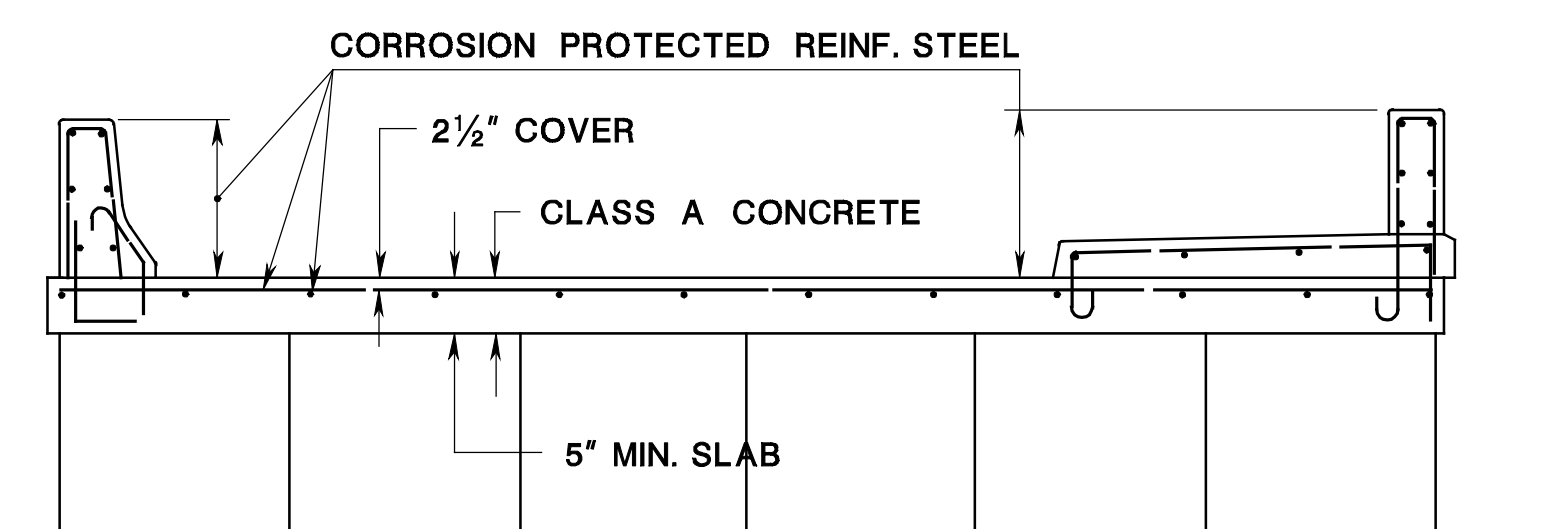
- 1 GAS MAIN FURNISHED AND INSTALLED BY UTILITY COMPANY.
- 2 GALVANIZED SLEEVE FURNISHED AND INSTALLED BY CONTRACTOR.
- 3 CASING SEAL FURNISHED AND INSTALLED BY UTILITY COMPANY.
- 4 ENDS OF SLEEVE SHALL BE CUT SQUARE AND FREE FROM BURRS.
- 5 GRADE (SLOPE) OF SLEEVE SHALL BE SAME AS GRADE OF GAS MAIN.
- 6  $\phi$  OF GAS MAIN SHALL BE INSTALLED 1" HIGHER THAN  $\phi$  OF SLEEVE.
- 7 BLOCK INSTALLED TO INITIALLY POSITION THE PIPE AND SHALL BE REMOVED AFTER GAS MAIN APPROACH ROAD HAS BEEN CONNECTED AND BACKFILLED AND COMPACTED FOR BOTTOM HALF OF THE PIPE.
- 8 PIPE AND SLEEVE SHALL BE TEMPORARILY PLUGGED.
- 9 THE OPENING BETWEEN THE PIPE AND THE SLEEVE SHALL BE PACKED WITH HEMP, JUTE OR SIMILAR MATERIAL TO PREVENT LEAKAGE THROUGH THE BACKWALL.



**TWO-COURSE CONCRETE DECK SLAB**



**ONE-COURSE CONCRETE DECK SLAB**



**CONCRETE OVERLAY SLAB ON PRESTRESSED CONCRETE VOIDED SLAB OR BOX BEAMS**

**NOTE:**

ALL REINFORCEMENT STEEL IN PARAPETS AND SIDEWALKS SHALL BE CORROSION PROTECTED.

**BRIDGE DECK CONSTRUCTION PROTECTIVE SYSTEMS (NEW BRIDGE DECKS)**

BCD-504-2.3

**MISCELLANEOUS BRIDGE ITEMS**

N.T.S.

BCD-504-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION  
BUREAU OF STRUCTURAL ENGINEERING

**BRIDGE CONSTRUCTION DETAILS**

BCD-504-2.5