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The Illinois Coli-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be non-pured by the permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shallbe dry and aldust and loose particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for SteelPlate Beam Guardrall Attached to Structures.

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shallbe fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and out washers. The coli wire shallbe made of any suitable soft steel wire. The finished anchor bolt shallbe cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shallbe a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

 With the collwire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.

Dearing sear.
 Epoxy grout shallbe pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approvalby the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge type anchor rods shallbe a two part system composed of:

composed of:
A threaded rod stud with nut and washer of the type specified.
A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Туре
Guardrail	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor boits may be substituted for the anchor boits shown above.



5% " THICK BASE PLATE DETAIL



Box Culverts.



	T.R. SECTION COUNTY TOTAL SHEETS SHEET NO. 336A 31BR MADISON 11 8
	STA. N/A TO STA.N/A
	FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT
	Contract #76121
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14-*4 vio bars each face (Cut to fit)	
<u>1-#4 v11 bar</u> each face	
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$T \mid $	В
-10''	(Cut to fit)
-10	8′-2′′
NODTHEACT WINCWALL DET	
NORTHEAST WINGWALL DET (Showing water main passing thro	
±s	
h10	Back face
× × ·· · · ·	
	<u><u></u></u>
$\mathcal{V}$	
-	8'-2''
SECTION B-B	
Note:	
Opening dimensions are approxim of water main shall be field verifi	Place 3"
preformed joint filler between we wingwall. Cost included with Concre Culverts.	
Drawing not to Scale	
REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
	CULVERT GUARDRAIL DETAILS
	SUARDRAIL DETAILS STRUCTURE NO. 060-2045
	TR 336A
	TR 336A SECTION 31BR MADISON COUNTY
	TR 336A SECTION 31BR