FAS ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
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ANCHOR BOLT DETAILS

OF
INDIAN HEAD ROAD BRIDGE REPLACEMENT

FOR
LEE COUNTY HIGHWAY DEPARTMENT

ANCHOR BOLT DETAILS

SHEET TITLE

JOB NUMBER 2080334

ANCHOR BOLT DETAILS SECTION 08-00303-00-BR

F.A.S. 188 (INDIAN HEAD RD.) LEE COUNTY

S.N. 052-3413

12/13/2012 SHEET NO.

18 of 22

MATERIALS FOR ILLINOIS COIL—LOCK ANCHOR BOLT The anchor bolt shall be fabricated from cold drawn or hat finished seamless carbon steel mechanical tubing conforming to ASTM A519, Grade 1026 and supplied with hexagonal nuts and cut washers. The coil wire shall be made of any suitable soft steel wire.

with nexogonal nuts and cut washers.
The coil wire shell be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wropped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system comforming to ASTM C881, Type 1, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE FOR THE ILLINOIS COIL-LOCK ANCHOR BOLT

 With the coil wire 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.

the nut shall be tensioned what the sect period 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 approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes in accordance with the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part

system composed of:

1. A threaded rad stud with nut and washer conforming to ASTM A307.

2. A seeled glass capsule or a seeled glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or in accordance with the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust 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 copsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

The Illinois Coil-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 lows. 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 no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this balt.	"d"# HOLES WITH ZERK FOR EPOXY GROUT
D E H K "d" 1" 1 1/8" 13/16" 1 3/4 1/4" 1 1/4" 1 3/8" 1 1/16" 2" 3/8" 1 1/2" 1 5/8" 1 5/16" 2 1/6" 1/2" 2" 2 1/8" 1 13/16" 2 7/8" 1/2" 2 1/2" 2 5/8" 2 5/16" 3 3/8" 1" BEARING SEAT	ANCHOR BOLT (SEE BEARING DETAILS FOR NUMBER, SIZE AND LENGTH.) TOP OF BASE PLATE OR SIDE RETAINER.
HEAT BOTTOM PLAN-COIL WIRE ILLINOIS C	END OF GROOVE 5/32" WIDE x 3/32" DEEP GROOVE IN ANCHOR BOLT WITH 1/8" O. D. COIL WIRE 1/8" NOTCH "E"#

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