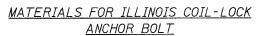
| POUTE NO. | SECTION | | COUNTY | TOTAL | SHEE NO. |
|-----------------------|-------------|------------|-----------------|--------|-------------|
| 8.8.1. F.A. 245 | 98-20101-00 | -BR | BUREAU | 65 | 56 |
| FED. ROAD DIST. NO. 7 | | TI L INDES | EED ATC PROJECT | RROS-O | MC5. |

STRUCTURAL SHEET 23 OF 25



The anchor bolt shall be 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 cut washers.

The coll wire shall be made of any suitable soft steel wire.

The Illinois Coil-Lock Anchor Bolt is a proprietory 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 no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D | E | H | K | "d"

1/6′′

158" 1516" 218"

2" 218" 11315" 278"

2½" 258" 256" 338"

138''

l₁₆ '' at Bottom_ of coil

PLAN-COIL WIRE

"d"± Holes with zerk

Anchor Bolt (See Bearing Details

Top of base plate

for number, size and length.)

for epoxy grout

End of groove

coil wire

 $^{5}3_{2}^{\prime}$ wide x $^{3}3_{2}^{\prime\prime}$ deep groove in anchor bolt with $^{1}8_{6}^{\prime\prime}$ O. D.

End of

ILLINOIS COIL-LOCK ANCHOR BOLT

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are Installed. The epoxy grout shall be a two-component, epoxy resin bonding system comforming to ASTM C 881, Type I, Grade I 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 boll shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the belt. The nut shall be tensioned until the steel base plates are held securely to the concrete

Epoxy grout shall be 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 approval by the Department. The Contractor shall install these anchor rads in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

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

10½"x23³8" End Posts 2-10¹2"x23³8" End Posts — 10¹2"x37¹8" Glulam "4194" כ^ו 10–-- ⁷₈ "¢x9" Lag Bolts — 16 Required 10° 0° 0 1" Elastomeric Bearing Pad

GENERAL NOTES

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 seiting 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 boits, 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 "Furnishing and Erecting Structural Steel".

Holes in the masonry for anchor bolts shall be drilled through the base

L 34"x6"x8"x21" Long — I"x12." Coll-Lock Anchor Bolts= w/2¹z,"x2¹z,"x⁵₁₆." Plate Washers – 3-1/₆" Ø x2" Long Slotted Holes for I" Ø x 12" Anchor Bolts with 2¹2"x 2¹2"x⁵6" Plate Washers and Double Nuts, Outside only (12 Required)

ELEVATION AT ABUTMENT

SECTION AT ABUTMENT

 \oplus 0 -4^{-i5} ₁₆ "x1 l 2" Long Slotted Holes for 7 8" ϕ Bolts 5½" 5½"

SIDE RETAINER

ANCHOR BOLT DETAILS SECTION 98-20101-00-BR T.R. 245 OVER BIG BUREAU CREEK STA. 13+70 (S.N. 006-4288) BUREAU COUNTY WHA # 1104D04