STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

''d'' ¢ Holes with zerk

Anchor Bolt (See Bearing Details

Top of base plate

for number, size and length.)

End of groove

coil wire

'e" Notch

ILLINOIS COIL-LOCK ANCHOR BOLT

 $^{-5}_{32}$ " wide x $^{3}_{32}$ " deep groove in anchor bolt with 18" \$

coil lock

for epoxy grout



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

Prior to setting the bolts, the holes shall be dry and all dust and loose

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

recommendation after beams or girders have been erected and adjusted.

particles shall be removed by the use of compressed air or vacuuming.

price for Precast Prestressed Concrete Deck Beams.

ANCHOR BOLT

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.

and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be 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

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

2. 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

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 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:

1. A threaded rod stud with nut and washer of the type specified.

2. A sealed glass capsule or a sealed glass adhesive cartridge containing

Location	Туре
Abutments	A-307 (Side Retainers)
	NAMES OF THE OWNER OWNER OF THE OWNER

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

MATERIALS FOR ILLINOIS COIL-LOCK

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

The finished anchor bolt shall be cleaned of rust and other foreign materials

ANCHOR BOLT DETAILS <u>IL 49 OVER PIGEON CREEK</u> FAP ROUTE 840 - SECTION 123-BR-1 IROQUOIS COUNTY STATION 135+74.00 STRUCTURE NO. 038-0174

1. With the coil wire in place, the bolt shall be inserted into the hole and turned

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

premeasured amounts of the adhesive chemical.

	Туре
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CONSULTANTS, INC. DESIGNED BY: FMA 04/06 DRAWN BY: HAG/cj 04/06 CHECKED BY: ELH/MTD 09/06 APPROVED BY: RDP 09/06

16" at Bottom of coil

PLAN-COIL WIRE

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 laws. The production and

the fabrication of this boil for use on highway projects

Н

1/6"

1⁵16′′

1/8"

1³8′′

1⁵8′′

2" 28" 1136" 278"

212" 258" 2516" 338"

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.

134"

Bearina Seat

218"