#### **GENERAL NOTES**

THE CONTRACTOR SHALL FURNISH THE FOLLOWING PER THIS DETAIL AND AS SHOWN IN THE WISC QUANTITY SHEETS: LOOP DETECTOR CONDUIT, NON-METALLIC CONDUIT, PULL BOXES, LOOP DETECTOR WIRE & LEAD IN CABLE,

NO TRANSVERSE SAW JOINTS OR PAVEMENT CORING IS ALLOWED 6-FEET EITHER OF THE LOOP AREA.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN THE PULL BOX WHICH IS NEAR THE EDGE OF THE ROAD. ALL SPLICES SHALL BE MADE AS SOON AS POSSIBLE AFTER THE WIRES ARE INSTALLED. THE PROPER SPLICE OF A TWO CONDUCTOR CABLE CONSISTS OF TWO SOLDERED JOINTS ENCLOSED IN SINGLE SPLICE KIT. EACH SOLDERED CONNECTION SHALL BE INSULATED FROM ONE ANOTHER. ALL SPLICES SHALL MADE WITH EPOXY TYPE SPLICE KITS SUCH AS (3M 82A1) OR APPROVED EQUAL.

IF A SPLICE TO THE LEAD-IN CABLE CANNOT BE MADE THE SAME DAY THAT THE LOOP WIRE OR LEAD-IN CABLE IS INSTALLED, THE WIRE/CABLE ENDS SHALL BE SEALED WITH TAR OR 3M SCOTCHKOTE TO KEEP WATER OUT OF THE

DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATER PROOF TAGS IN THE PULL BOX AND CABINET. THE WATERPROOF TAGS SHALL BE LABELLED AS SHOWN IN THE ADJACENT DIAGRAM FOR EACH RESPECTIVE LOOP. (i.e. #1 NBP, #2 NBS, etc.)

A COMPLETE "AS BUILT" WIRING DIAGRAM SHOWING LOOP CONNECTIONS AND LEAD-IN CABLES SMALL BE PROVIDED TO STEVEN WISWELL, WISCONSIN DOT, TRAVEL SURVEYS SHOP, AT 3633 PIERSTORFF ST., MADISON, WI, 53704, TEL. 608-246-3266, UPON COMPLETION OF THE SYSTEM INSTALLATION.

## LOOP DETECTOR INSTALLATION

NTS

CS 05-0341 (Between USH 41 & Babcock Road), STATION 246+00

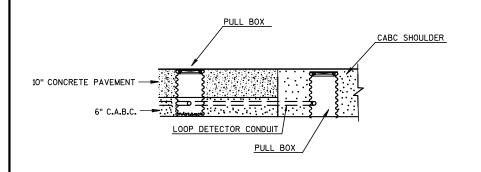


THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

#### NOTE:

GENERAL NOTE

THE LOCATION OF THE CONCRETE CONTROL CABINET BASE & LOOP DETECTORS SHALL BE LOCATED IN THE FIELD BY KIM HEISE. NOTIFY HER 2 WEEKS PRIOR TO INSTALLATION AT (920) 362-6360.



### STANDARD DETAIL DRAWINGS

See the following Standard Detail Drawings (SDD) for further guidance on this installation.

- Conduit
- Pull Box
- Loop Detector placed in crushed aggregrate base (New Concrete Pavement)

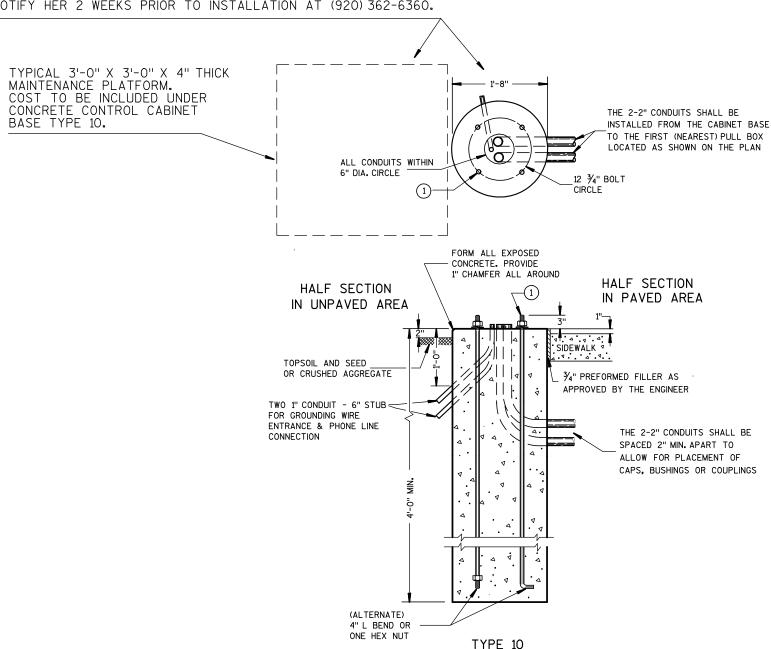
HWY: STH 172 COUNTY: BROWN PROJECT NO: 9280-02-60 CONSTRUCTION DETAIL - CONTROL STATION SHEET FILE NAME : F:\d3\_traffi\CS 05-0341.dgn PLOT BY : dotc5s

PLOT DATE: 16-JUL-2007 11:28

2

CONTROL CABINET BASE TYPE	DIMENSIONS	C.Y. CONCRETE (APPROX.)
TYPE 10 - POST MOUNT	AS SHOWN	.32

THE LOCATION OF THE CONCRETE BASE & PLATFORM
SHALL BE LOCATED IN THE FIELD BY KIM HEISE.
NOTIFY HER 2 WEEKS PRIOR TO INSTALLATION AT (920) 362-6360.



# CONCRETE CONTROL CABINET BASE TYPE 10 MODIFIED

(Paid for under Bid Item 654.0220 Concrete Control Cabinet Bases Type 10)

PROJECT NO: 9280-02-60 HWY: STH 172 COUNTY: BROWN

# CONSTRUCTION DETAIL - CONCRETE CONTROL STATION CABINET BASE

# GENERAL NOTES DETAILS OF CONSTRUCTION, MA

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SOUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"

ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM. A-687 (GRADE 105).

#### **CONTROL STATION LOCATIONS**

CS 05-0341 (Between USH 41 & Babcock Road), STATION 246+00

FILE NAME: F:\d3\_traff1\CS 05-0341.dgn PLOT BY: dotc5s PLOT NAME: CS05-0341base PLOT SCALE: 200.000000:1.000000 WISDOT/CADDS SHEET 42

SHEET