BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET

3" spacing between conduits (typ)  
Copy any unused conduit(s)

1 1/2" schedule 80 PVC rigid metal conduit

Grade level

3/4" x 10' - 0" copper clad ground rods a variable distance from foundation as directed by Engineer and in accordance with the current N.E.C.

FOOTING

Gravel

Insulated ground wire

System grounding

To Service Disconnect

Use non-solder type connection

NOTE:
1) Grounding system shall measure 10 ohm or less to ground, with a 10' (min) spacing between ground rods.
2) All insulated jackets are to remain on cable entering controller.
3) Keep 1-3" conduit on left side open for ITS

Bushings required on all conduits

Refer to contract documents for the finished concrete surface requirement for foundations.

NOTE:
Bolt pattern to manufacturer’s specifications (2) required.

(4) 3" schedule 80 PVC conduits (min) or as shown on the plans

#8 insulated or larger stranded copper ground wire with 48" slack above foundation.

3/4" x 42" galvanized foundation bolts, nuts & washers (2 required) (Refer to detail "A" on Sheet 6 of 7 for use of drop in type bolts and anchors.)
BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET

3" spacing between conduits (typ)
Cap any unused conductors

Bushings required on all conduits

Refer to contract documents for the finished concrete surface requirement for foundations.

NOTE:
Bolt pattern to manufacturer's specifications (2) required.

(4) 3" schedule 80 PVC conduits (min) or as shown on the plans

1 1/2" schedule 80 PVC rigid metal conduit

Grade level

1 1/2" schedule 80 PVC conduit

Handhole

To Service Disconnect

System Grounding

Use non-solder type connection

3/4" x 10'-0" copper clad ground rods (a variable distance from foundation as directed by Engineer and in accordance with the current N.E.C.)

Insulated wire

Gravel

#6 insulated or larger stranded copper ground wire with 48" slack above foundation.

3/4" x 42" galvanized foundation bolts, nuts & washers (2 required) (Refer to Detail "a" on Sheet 6 or 7 for use of drop in type bolts and anchors.)

NOTE:
1) Grounding system shall measure 10 ohm or less to ground, with a 10' (min) spacing between ground rods.

2) All insulated jackets are to remain on cable entering controller.

3) Keep 1-3" conduit on left side open for ITS

NOT TO SCALE
BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET

3" spacing between conduits (typ)
Cap any unused conduit(s)

3/4" x 2 1/2" galvanized bolts, nuts & washers (4 required)

Bushings required on all conduits
Refer to contract documents for the finished concrete surface requirement for foundations.

NOTE:
Bolt pattern to manufacturers specifications (4) required.

(4) 3" schedule 80 PVC conduits

3/4" x 42" galvanized foundation (4) bolts, (4) nuts & (4) washers (required)
(Refer to Detail "A" on Sheet 6 of 7 for use of Drop In type bolts and anchors.)

NOTE:
1) Grounding system shall measure 10 Ohm or less to ground, with a 10" (min) spacing between ground rods.
2) All insulated jackets are to remain on cable entering controller.
3) Keep 1-3" conduit on left side open for ITS

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

FHWA APPROVAL DATE

PLAN DATE

SIG-110-A

SHEET 3 of 7
BASE MOUNTED TRAFFIC SIGNAL ITS CONTROLLER CABINET (IF USED)

3" spacing between conduits (Typ)
Copy any unused conduit(s)

3/4" x 2 1/2" galvanized bolts, nuts & washers (4 required)
Washer
Lock washer
Nut

Bushing required on all conduits
Refer to contract documents for the finished concrete surface requirement for foundations.

NOTE:
Bolt pattern to manufacturers specifications (4) required.

1 1/2" schedule 80 PVC rigid metal conduit

Grade level
Hobondhole

3 3/4" x 10'-0" copper clad ground rods (1) variable distance from foundation as directed by Engineer in accordance with the current NEC.

3/4" x 2 1/2" galvanized foundation (4) bolts, (4) nuts & (4) washers (required)
(Refer to detail "A" on Sheet 6 of 7 for use of Drop In type bolts and anchors.)

NOTE:
1) Grounding system shall measure 10 ohm or less to ground, with a 10' (min) spacing between ground rods.
2) All insulated jackets are to remain on cable entering controller.
3) Keep 1-3" conduit on left side open for ITS

BASE MOUNTED TRAFFIC SIGNAL ITS CONTROLLER CABINET (IF USED)

NOTE:
1) Grounding system shall measure 10 ohm or less to ground, with a 10' (min) spacing between ground rods.
2) All insulated jackets are to remain on cable entering controller.
3) Keep 1-3" conduit on left side open for ITS
BASE MOUNTED CONTROLLER PAD

NOTE:
Payment for controller pad to be included in controller foundation pay item. Controller cabinet door to open toward pad.
Notes:
1. Use AISI 300 Series Stainless Steel for all bolts and anchors.
2. Use Drop-In foundation bolts and anchors as directed by the Engineer.

ALTERNATIVE DETAIL "A": DROP IN FOUNDATION BOLTS & ANCHORS
TRAFFIC SIGNAL NEMA 3R SIZE 6 CABINET REQUIREMENTS

TRAFFIC SIGNAL NEMA 3R SIZE 6 STRETCH CABINET REQUIREMENTS

FOR
ITS APPLICATIONS

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN
(SPECIAL DETAIL)
FHWA APPROVAL DATE

SIG-110-A SHEET
7 of 7

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