Michigan Department of Transportation
Traffic and Safety

WAYNE COUNTY TRAFFIC SIGNAL DETAILS

SIGWC-026A THROUGH SIGWC-408A

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ENGLISH VERSION

MDOT
Michigan Department of Transportation

DEPARTMENT DIRECTOR
KIRK T. STEUDLE

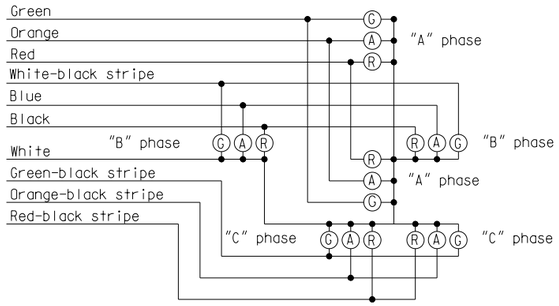
PREPARED BY TRAFFIC AND SAFETY

ENGINEER OF TRAFFIC AND SAFETY

DRAWN BY: MTS

CHECKED BY: JAT

MDOTProjectwise\Documents\Reference Documents\Traffic Reference\Signals\Wayne County Special Details\Develop



COLOR CODE FOR WIRING CONNECTING TRAFFIC SIGNAL LAMPS

NOTE:No splices allowed between traffic signal head and controller.

COLOR CODE FOR WIRING CONNECTING PEDESTRIAN SIGNAL LAMPS
(WALKING PERSON - HAND SYMBOL)

NOT TO SCALE

File: PW:RD/TR/Signals/Web/WC SD/Final Rev. 10/21/14

MDOT Michigan Department of Transportation

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DRAWN BY: DJF

CHECKED BY:

ENGINEER OF DELIVERY

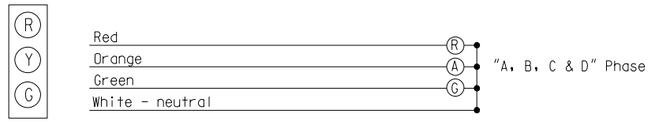
ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL) FHWA APPROVAL DATE

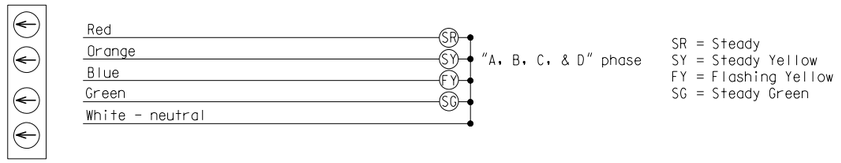
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

COLOR CODE WIRING/ EQUIPMENT GROUNDING

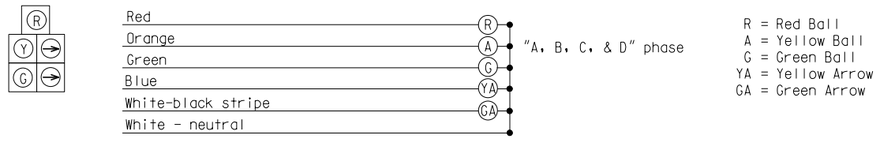
PLAN DATE | WC-026-A | SHEET 1 of 6



STANDARD - 3 COLOR SIGNAL DISPLAY



FLASHING YELLOW ARROW (FYA) - 4 COLOR SIGNAL DISPLAY



DOG HOUSE W/RIGHT TURNS - 5 COLOR SIGNAL DISPLAY

COLOR CODE FOR WIRING CONNECTING TRAFFIC SIGNAL LAMPS

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL) FHWA APPROVAL DATE

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PLAN DATE | WC-026-A | SHEET 2 of 6

AS-LET PLAN REVISIONS							
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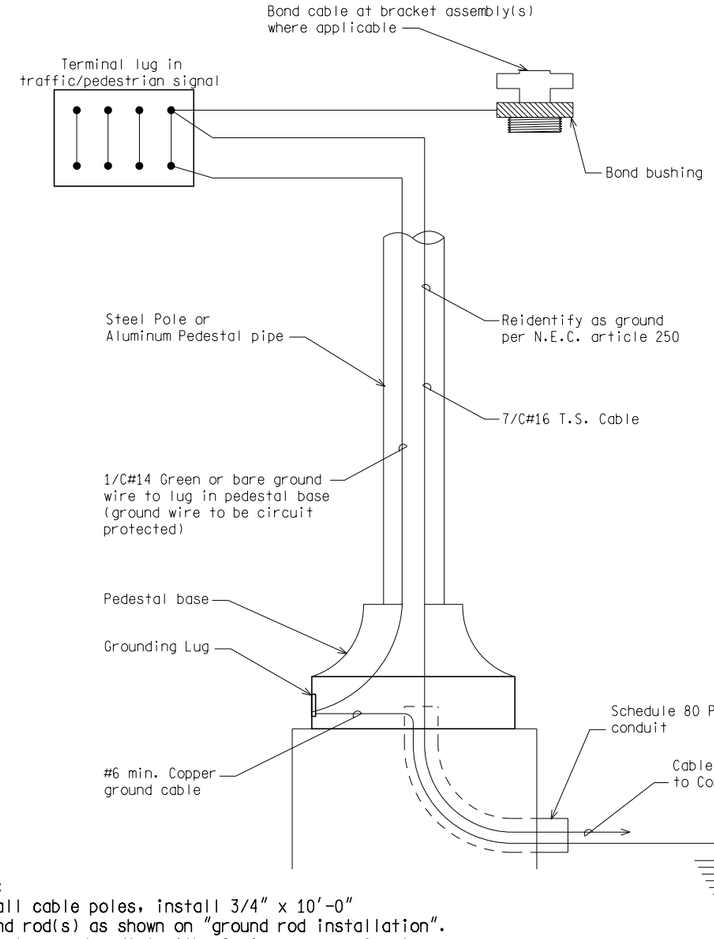
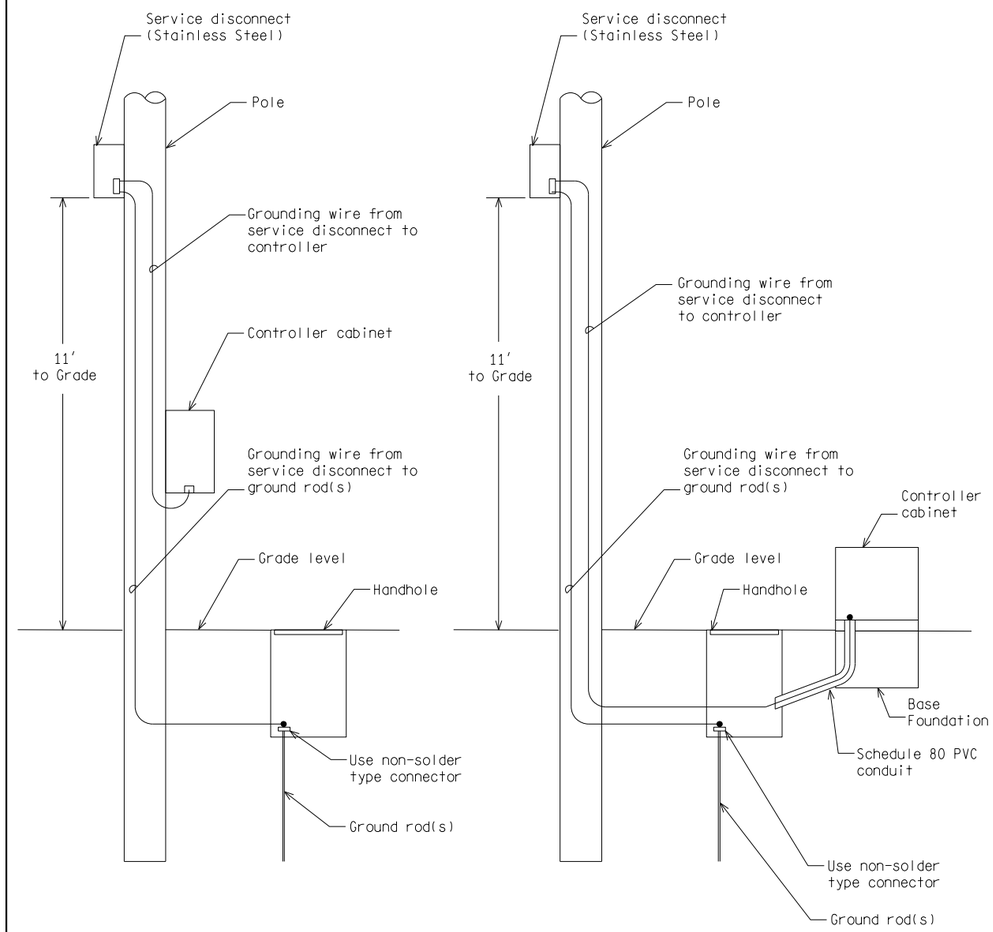


NOTE:
For all cable poles, install 3/4" x 10'-0" ground rod(s) as shown on "ground rod installation". Connect ground rod(s) with #6 min. copper wire to messenger wire with non-solder type connection.

STEEL POLE/PEDESTAL GROUNDING DETAIL

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-026-A	SHEET 3 of 6
File: PW:RD/TR/Signals/Web/WC SD/Final	Rev. 10/21/14			



GROUNDING

Install 3/4 " x 10'-0" copper clad ground rod(s) as required to provide less than 10 OHM resistance to ground.

Grounding wire #6 AWG min. bare copper grounding wire shall be installed to meet N.E.C. and utility company specs.

Ground wire from disconnect to ground rod to be in moulding (wood pole or post) or inside the pole (steel). Ground wire from disconnect to controller cabinet to be in conduit (wood pole, wood post, and steel pole).

CONTROLLER CABINET GROUNDING DETAIL

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-026-A	SHEET 4 of 6
File: PW:RD/TR/Signals/Web/WC SD/Final	Rev. 10/21/14			

AS-LET PLAN REVISIONS							
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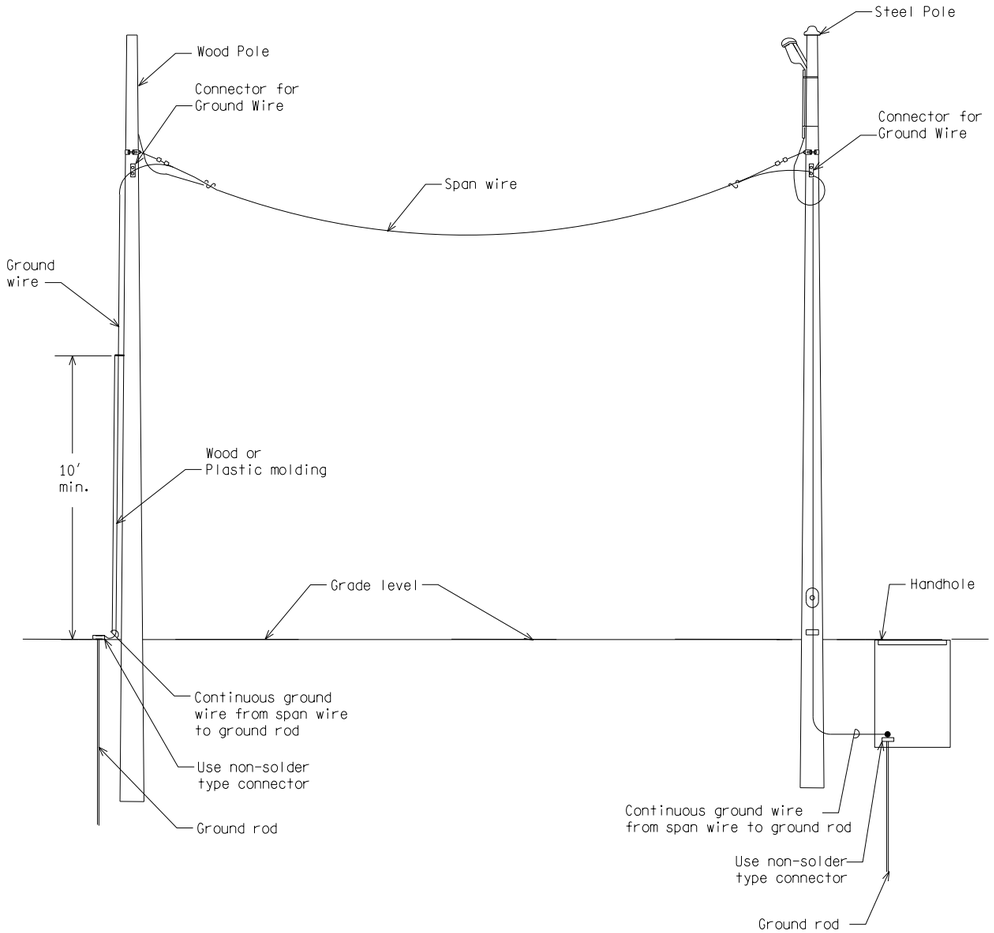
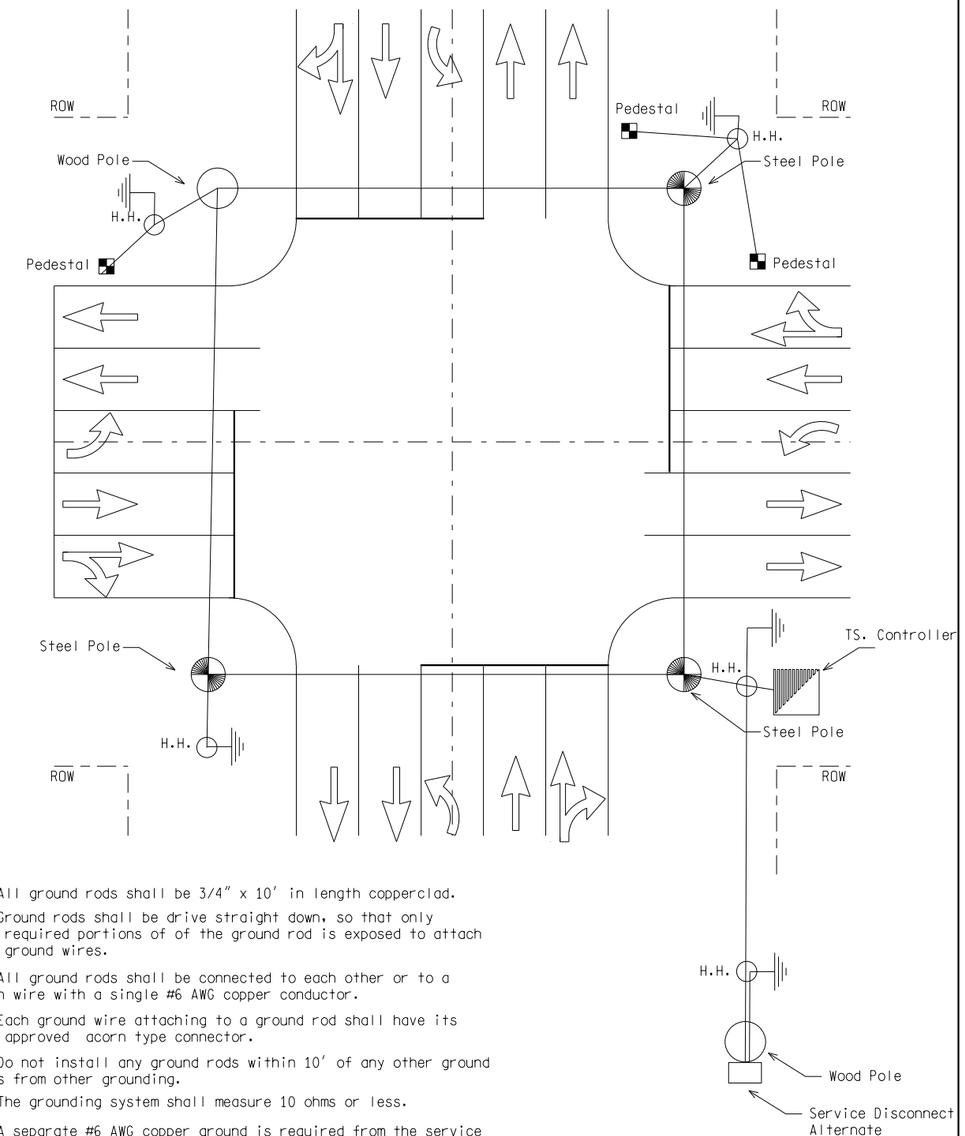


SPAN WIRE GROUNDING DETAIL

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-026-A	SHEET 5 of 6
File: PW:RD/TR/Signals/Web/WC SD/Final	Rev. 10/21/14			



1) All ground rods shall be 3/4" x 10' in length copperclad.

2) Ground rods shall be drive straight down, so that only the required portions of of the ground rod is exposed to attach the ground wires.

3) All ground rods shall be connected to each other or to a span wire with a single #6 AWG copper conductor.

4) Each ground wire attaching to a ground rod shall have its own approved acorn type connector.

5) Do not install any ground rods within 10' of any other ground rods from other grounding.

6) The grounding system shall measure 10 ohms or less.

7) A separate #6 AWG copper ground is required from the service disconnect (safety switch) to the ground bussbar in the controller cabinet.

8) Ground rod for each steel pole, wood pole, pedestal and/or traffic signal controller cabinet shall be located in the adjacent handhole as indicated on the plans or as directed by the Engineer.

9) All metal bases must be connected to a ground rod with a #6 ground wire.

SYSTEM GROUNDING DETAL

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-026-A	SHEET 6 of 6
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CONDUCTOR COLOR	7/C	12/C	16/C	20/C
GREEN	A Ø GREEN	A Ø GREEN	A Ø GREEN	A Ø GREEN
ORANGE	A Ø YELLOW	A Ø YELLOW	A Ø YELLOW	A Ø YELLOW
RED	A Ø RED	A Ø RED	A Ø RED	A Ø RED
WHITE W/ BLACK TRACER	B Ø GREEN	B Ø GREEN	B Ø GREEN	B Ø GREEN
BLUE	B Ø YELLOW	B Ø YELLOW	B Ø YELLOW	B Ø YELLOW
BLACK	B Ø RED	B Ø RED	B Ø RED	B Ø RED
WHITE	COMMON	COMMON	COMMON	COMMON
GREEN W/ BLACK TRACER		C Ø GREEN	C Ø GREEN	C Ø GREEN
ORANGE W/ BLACK TRACER		C Ø YELLOW	C Ø YELLOW	C Ø YELLOW
RED W/ BLACK TRACER		C Ø RED	C Ø RED	C Ø RED
BLUE W/ BLACK TRACER		CASE SIGN COMMON	CASE SIGN COMMON	CASE SIGN COMMON
BLACK W/ WHITE TRACER		CASE SIGN	CASE SIGN	CASE SIGN
GREEN W/ WHITE TRACER			W-1	W-1
RED W/ WHITE TRACER			DW-1	DW-1
BLUE W/ WHITE TRACER			W-2	W-2
BLACK W/ RED TRACER			DW-2	DW-2
WHITE W/ RED TRACER				D Ø GREEN
ORANGE W/ RED TRACER				D Ø YELLOW
BLUE W/ RED TRACER				D Ø RED
RED W/GREEN TRACER				FLASHING YELLOW

WHEN USING CABLES FOR PEDESTRIAN SIGNALS, USE GREEN & RED FOR **W-1** WALK AND DON'T WALK, AND USE WHITE W/ BLACK TRACER AND BLACK FOR **W-2** WALK AND DON'T WALK

NOT TO SCALE

File: PW:RD/TR/Signals/Web/WC SD/Final Rev. 10/21/14

MDOT Michigan Department of Transportation

PREPARED BY TRAFFIC AND SAFETY

DRAWN BY:

CHECKED BY:

ENGINEER OF DELIVERY

ENGINEER OF DEVELOPMENT

FHWA APPROVAL DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

COLOR CODE FOR WIRING CONNECTING SIGNAL LAMPS

PLAN DATE

WC-026-B

SHEET 1 of 1

AS-LET PLAN REVISIONS

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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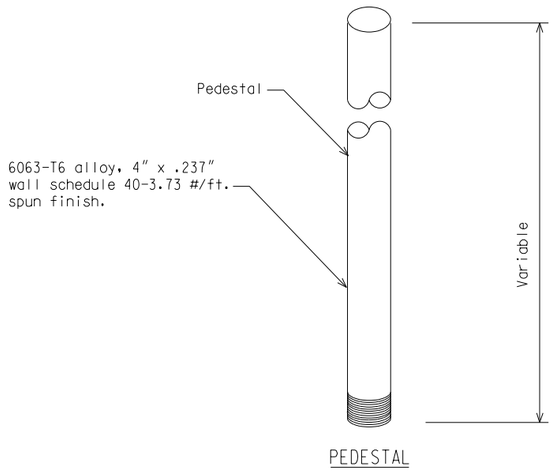
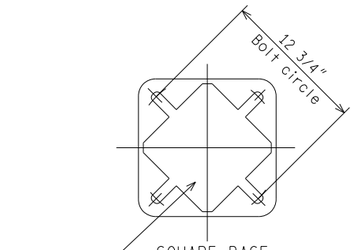
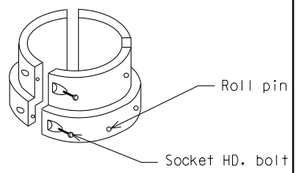
SHEET



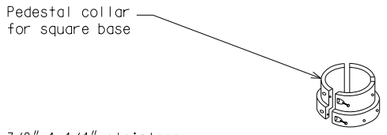
PEDESTAL



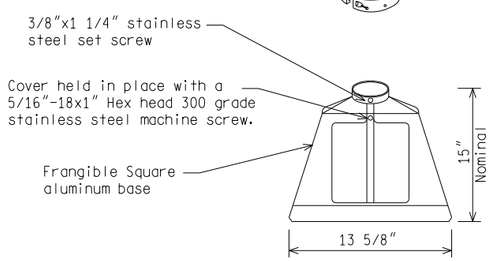
SQUARE BASE BOTTOM PLAN



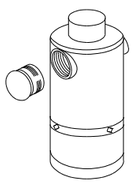
PEDESTAL COLLAR



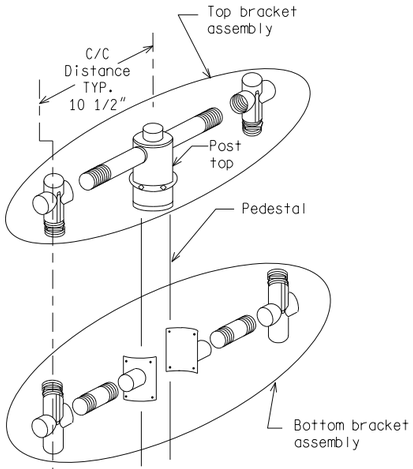
NOTE:
1) Use pedestal collar for pedestal length of ≥ 14′ (typical for 3-color traffic signal in combination with pedestrian signal)



SQUARE ALUMINUM BASE



POST TOP
(SLIP FITTER)



SIGNAL MOUNTING HARDWARE - STANDARD BRACKET

TRAFFIC/PEDESTRIAN SIGNAL MOUNTING HARDWARE

NOT TO SCALE

File: PW:RD/TR/Signals/Web/WC SD/Final Rev. 10/21/14

PREPARED BY TRAFFIC AND SAFETY

DRAWN BY:

CHECKED BY:

ENGINEER OF DELIVERY

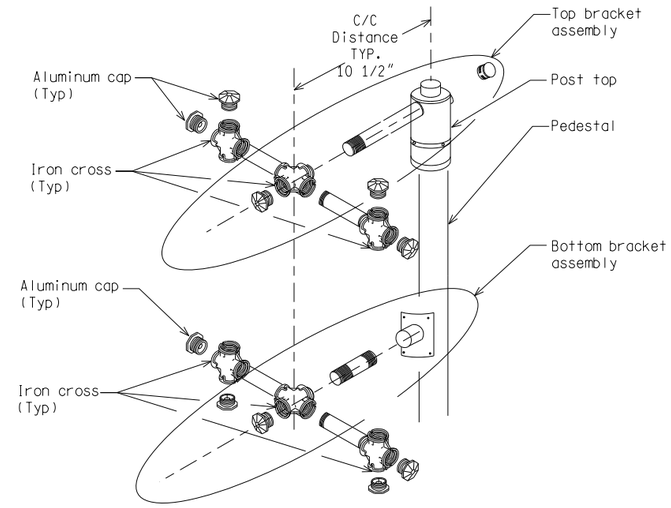
ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL) FHWA APPROVAL DATE

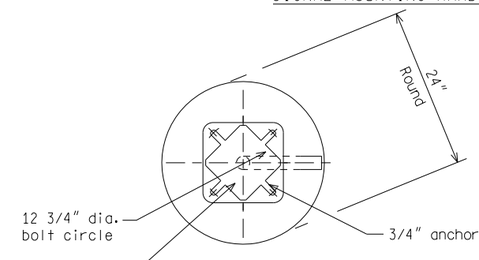
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

PEDESTAL FOUNDATION AND SIGNAL MOUNTING DETAILS

PLAN DATE | WC-028-B | SHEET 1 of 3

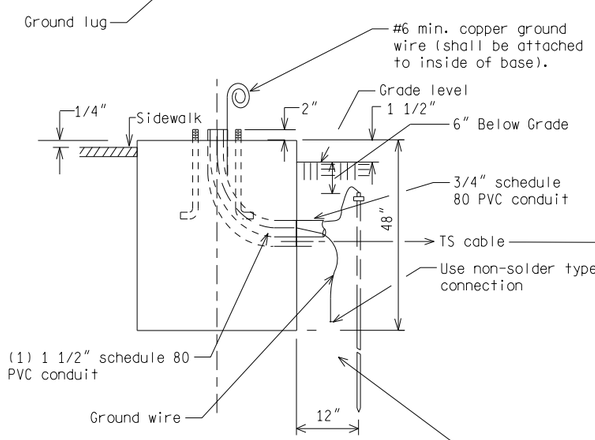


SIGNAL MOUNTING HARDWARE FOR BACKSIDE BRACKET

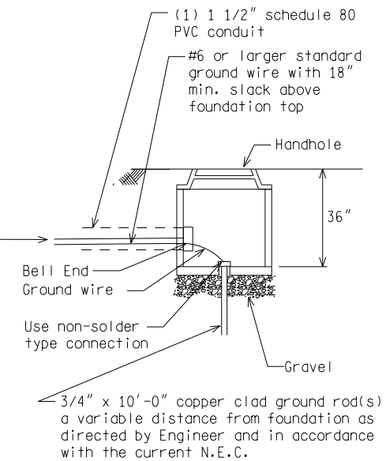


NOTES:
1) Alternate foundation may be constructed 22"x22" square - 48" deep.

2) Grounding system shall measure 10 ohm or less to ground.



PEDESTAL FOUNDATION



HANDHOLE DETAIL

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL) FHWA APPROVAL DATE

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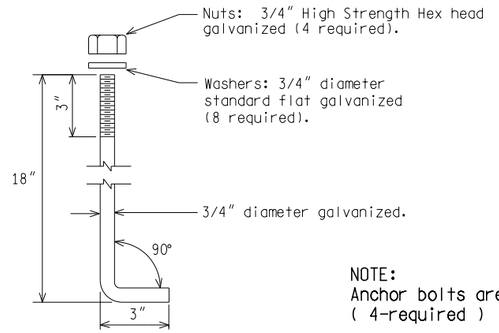

ANCHOR BOLT DETAIL

NOTE:
Anchor bolts are to be ASTM A-307 steel
(4-required)

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE		WC-028-B	SHEET 3 of 3
File: PW:RD/TR/Signals/Web/WC SD/Final	Rev. 10/21/14	PLAN DATE		

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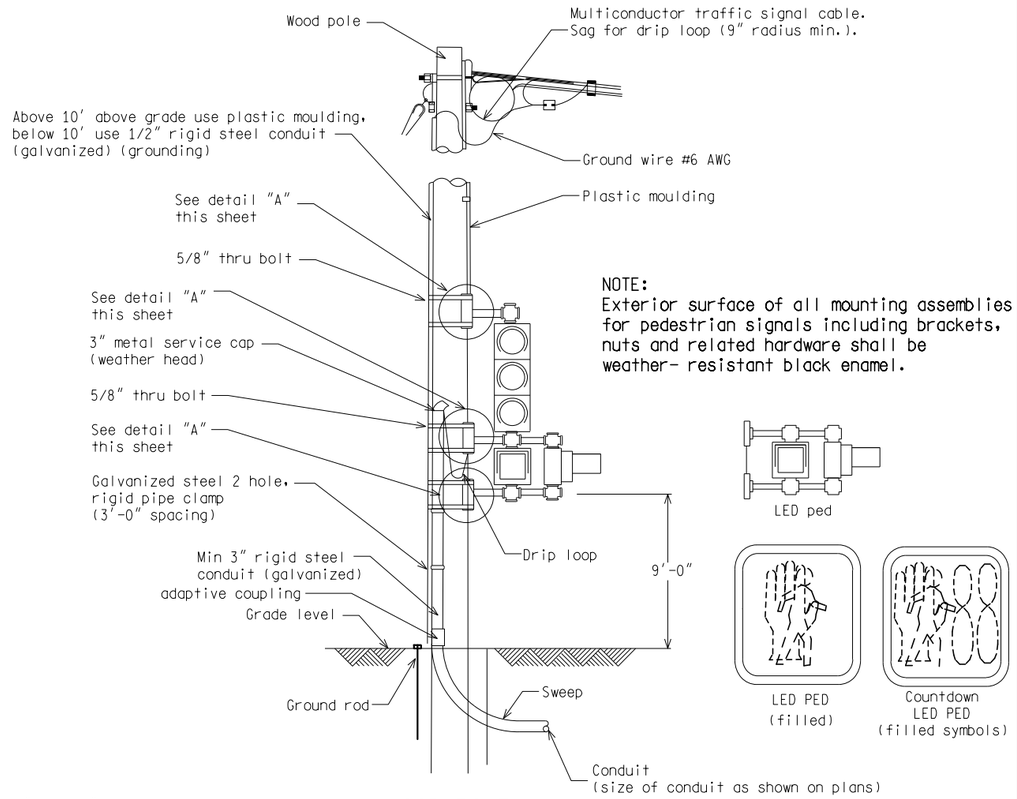
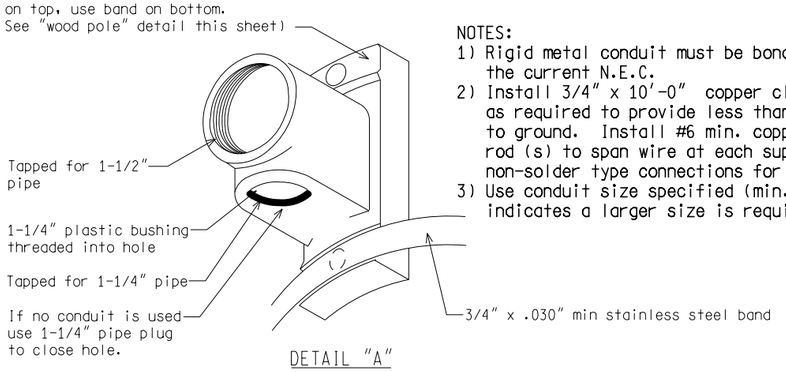


WOOD POLE



DETAIL "A"

NOTES:
1) Rigid metal conduit must be bonded according to the current N.E.C.
2) Install 3/4" x 10'-0" copper clad ground rod (s) as required to provide less than 10 ohm resistance to ground. Install #6 min. copper wires from ground rod (s) to span wire at each supporting pole using non-solder type connections for span wire ground.
3) Use conduit size specified (min.) unless current N.E.C. indicates a larger size is required.

NOT TO SCALE

File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

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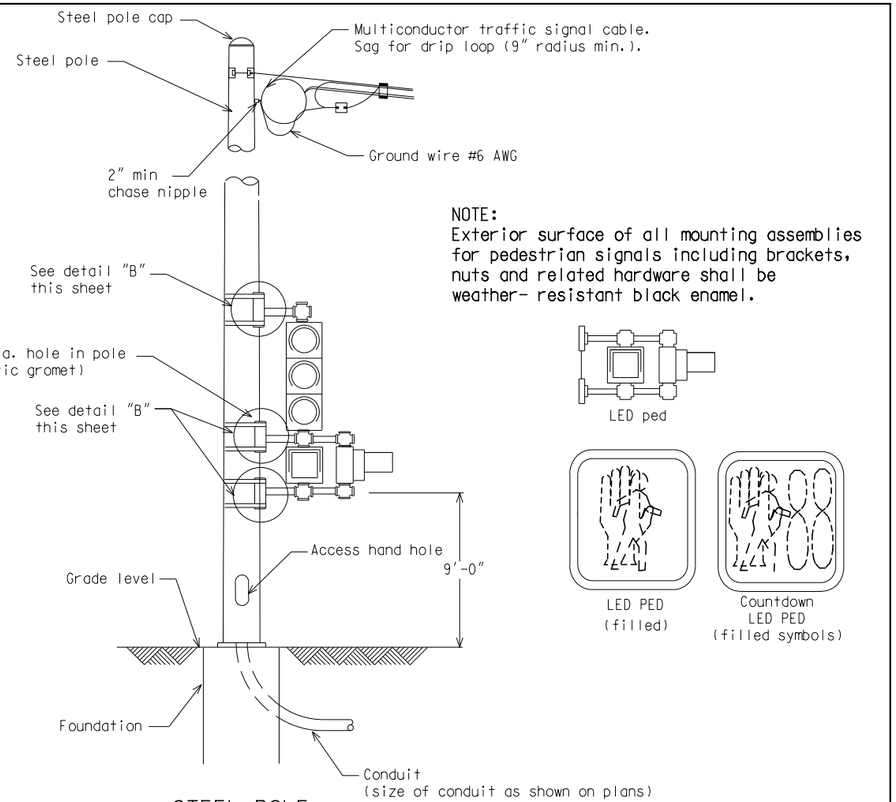
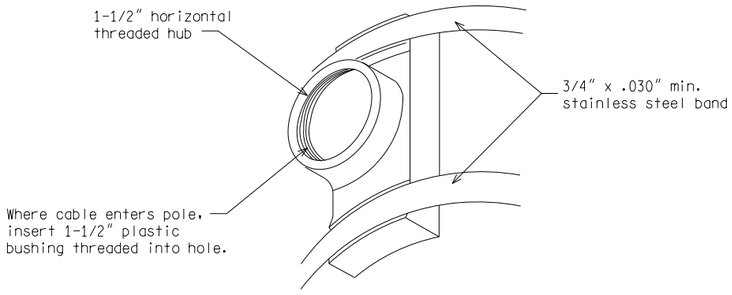


STEEL POLE



DETAIL "B"

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-029-C SHEET 2 of 4

File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

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MDOT Michigan Department of Transportation

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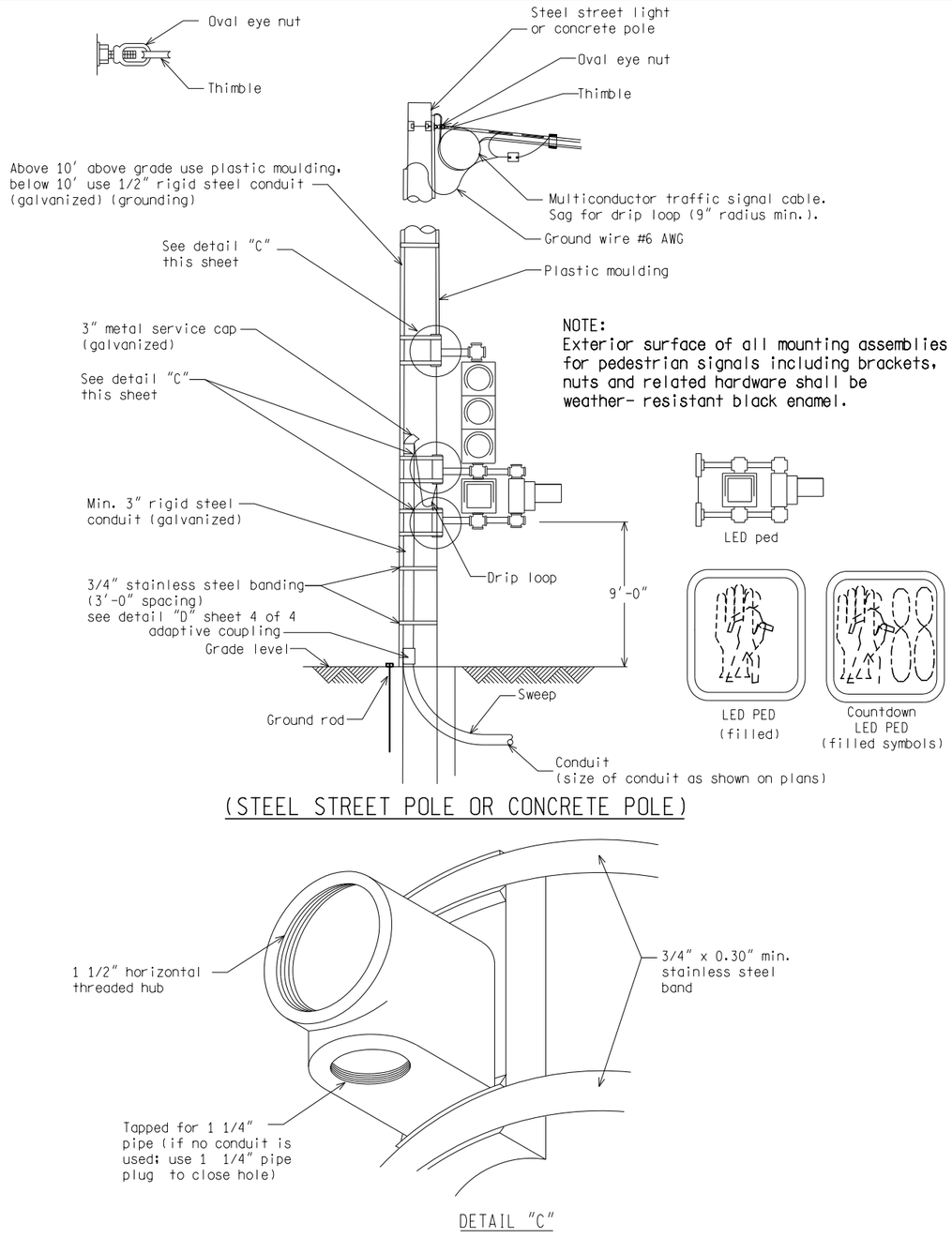
FILE:	TSC:				

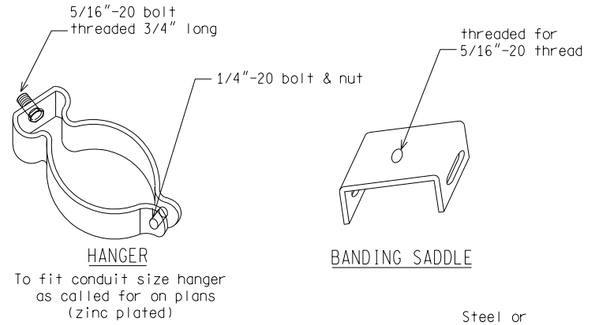


(STEEL STREET POLE OR CONCRETE POLE)

DETAIL "C"

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE			
File: PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14	PLAN DATE	WC-029-C	SHEET 3of 4



DETAIL "D"
TYPICAL CONDUIT ATTACHMENT
TO STEEL OR CONCRETE POLE

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE			
File: PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14	PLAN DATE	WC-029-C	SHEET 4of 4

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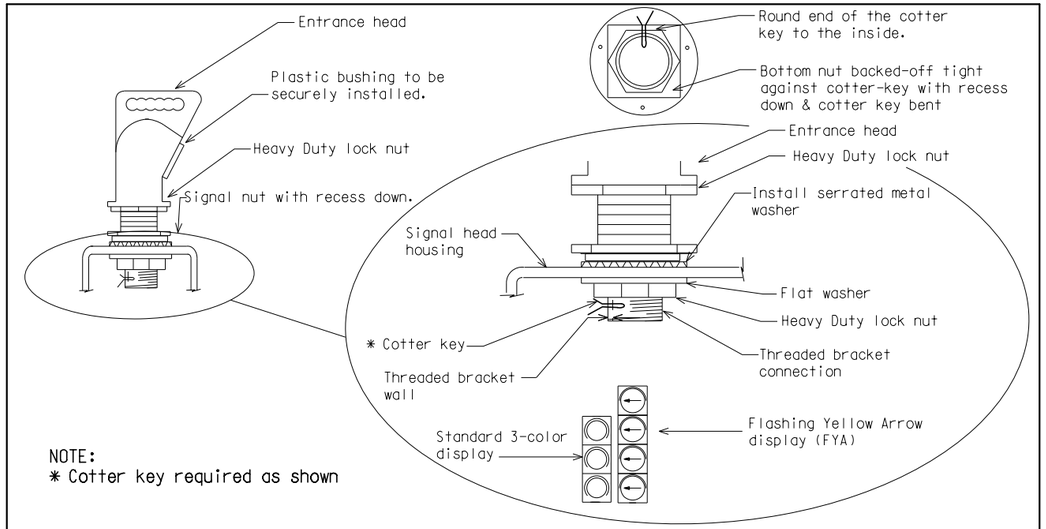
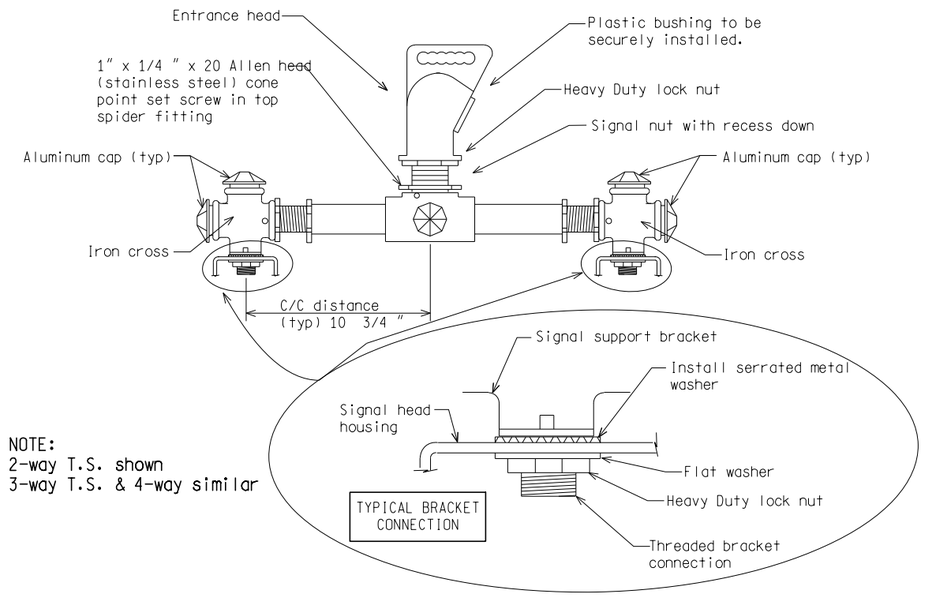
FILE:	TSC:				



NOTE:
* Cotter key required as shown

ONE-WAY TRAFFIC SIGNAL HEAD



NOTE:
2-way T.S. shown
3-way T.S. & 4-way similar

MULTIPLE-WAY TRAFFIC SIGNAL HEAD(S)

NOT TO SCALE

File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

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PREPARED BY TRAFFIC AND SAFETY

DRAWN BY: DJF

CHECKED BY:

ENGINEER OF DELIVERY

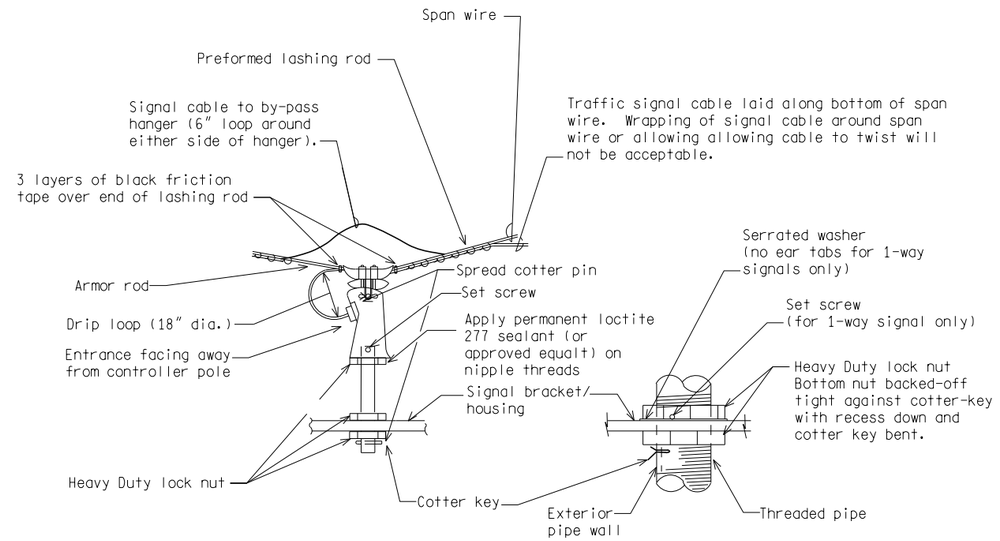
ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL) FHWA APPROVAL DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

SPAN WIRE MOUNTED T.S. BRACKET ASSEMBLY

PLAN DATE | WC-030-A | SHEET 1 of 2



HANGER ATTACHMENT

NOTE:
Exterior surface of all mounting assemble located below span clamps, including stems, lock nuts, and related hardware must match the current FHWA Highway yellow color tolerance chart per the Standard Specifications for Construction.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL) FHWA APPROVAL DATE

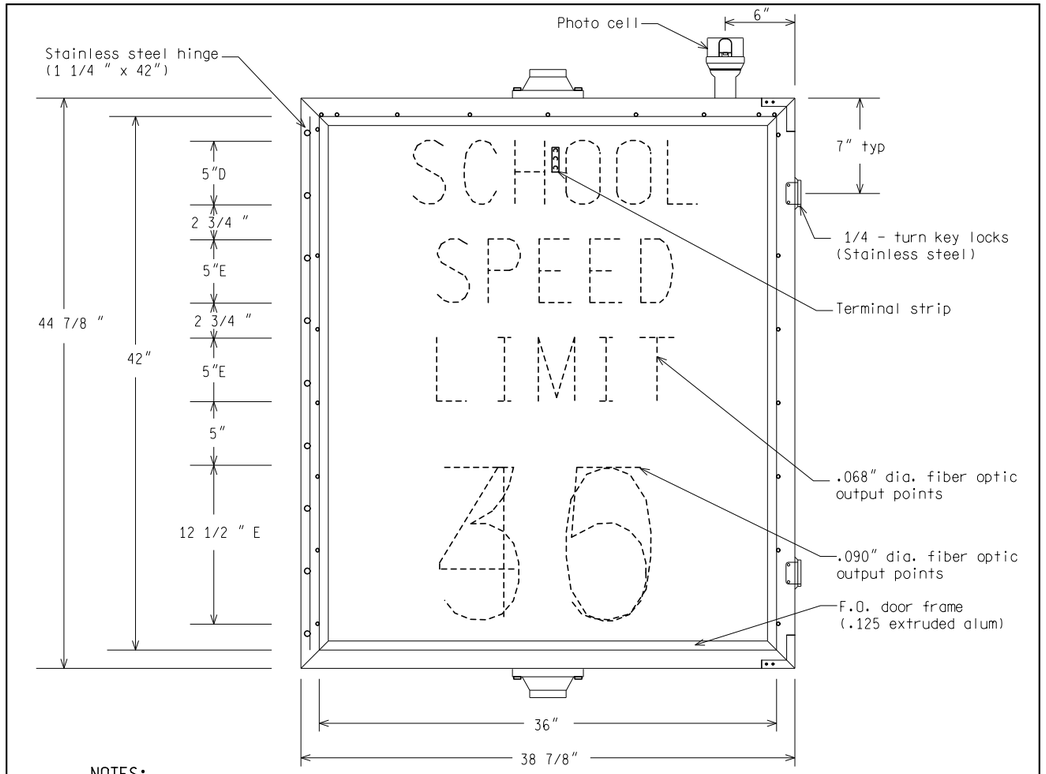
File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

PLAN DATE | WC-030-A | SHEET 2 of 2

AS-LET PLAN REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

MDOT Michigan Department of Transportation

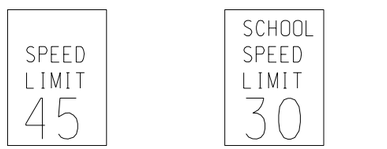
	DATE:	CS:		DRAWING	SHEET
	DESIGN UNIT:	JN:			
FILE:	TSC:				



NOTES:

1)"SCHOOL SPEED LIMIT" shall be formed by rows of .068" dia. fiber optic bundles spaced at 1/2 " O.C. (normal). "45" and "30" shall be 0.90" dia. fiber optic bundle spaced at 5/8 " O.C. (normal).

2) Message displays and colors:



Message 1
(white)

Message 2
("SCHOOL" - yellow)
("SPEED LIMIT 30" - white)

3) Message shall completely blank out when not energized.

4) Phase dimmer shall provide a means of manual adjustment for nighttime dimming. Dimming shall be activated by the photocell.

5) Sign housing shall be pre-drilled for power entry though top mounting hub.

6) Sign shall be equipped with four (4) 3/16 " dia. weep holes located in the lower cormers of the housing.

7) Exterior of housing assembly shall be painted semi-gloss black.

8) Approximate weight of sign assembled - 120 lbs.

NOT TO SCALE

File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

MDOT Michigan Department of Transportation

PREPARED BY
TRAFFIC AND SAFETY

DRAWN BY: DJF

CHECKED BY:

ENGINEER OF DELIVERY

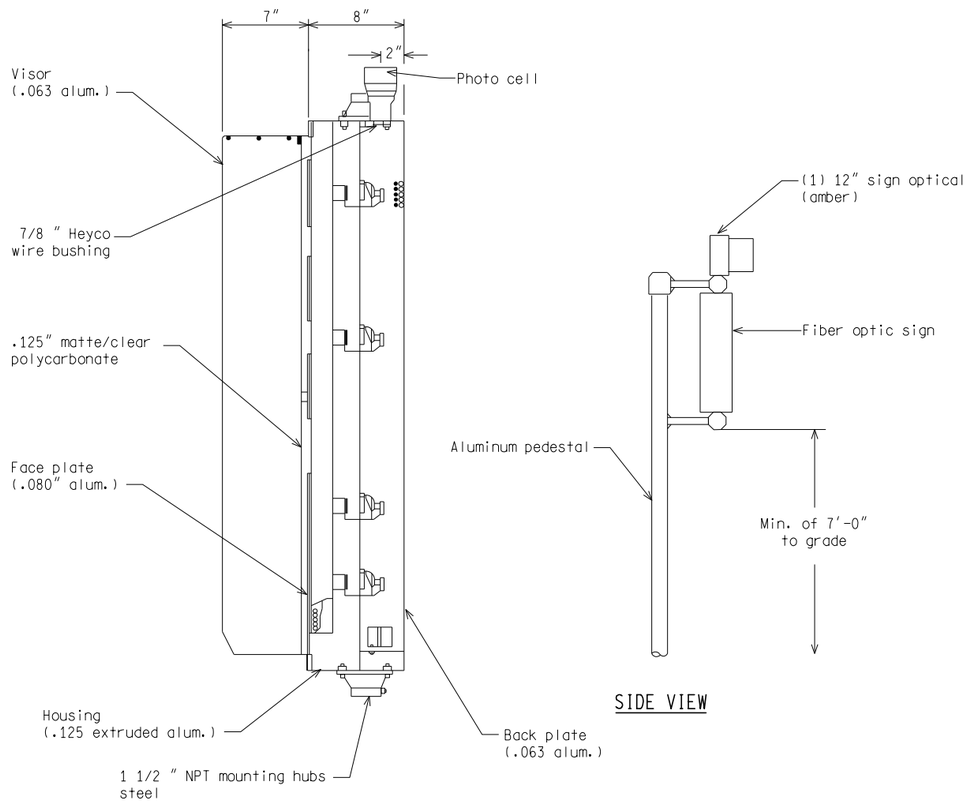
ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL)
FHWA APPROVAL DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

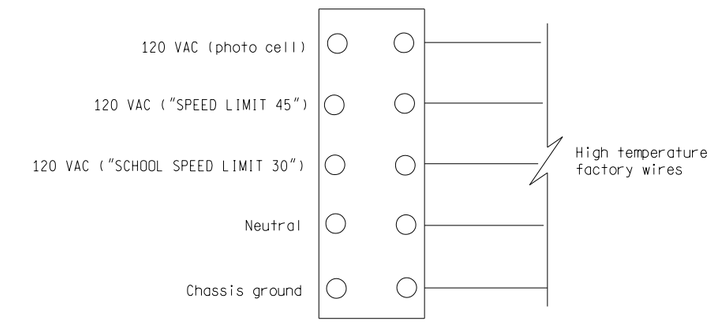
FIBER OPTIC VARIABLE SPEED LIMIT SIGN

PLAN DATE | WC-031-A | SHEET 1 of 2



SIDE VIEW

FIBER OPTIC VARIABLE SPEED LIMIT SIGN



TERMINAL STRIP CONNECTION

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL)
FHWA APPROVAL DATE

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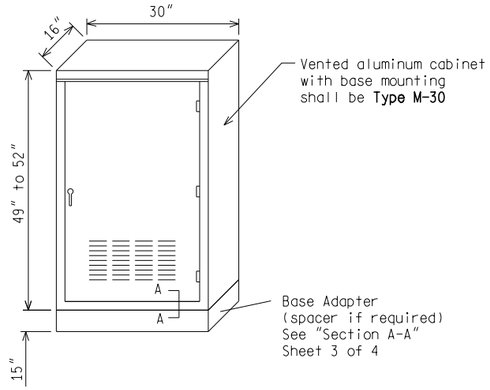
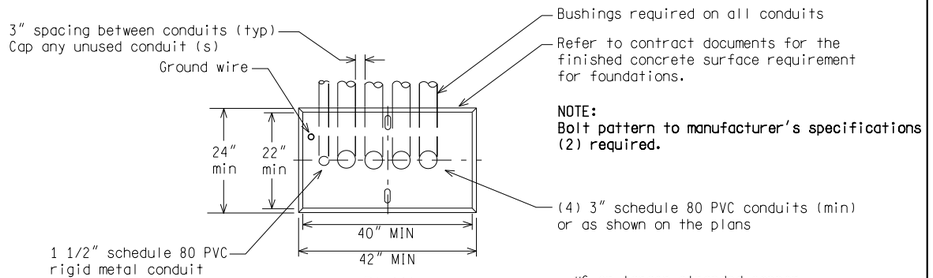
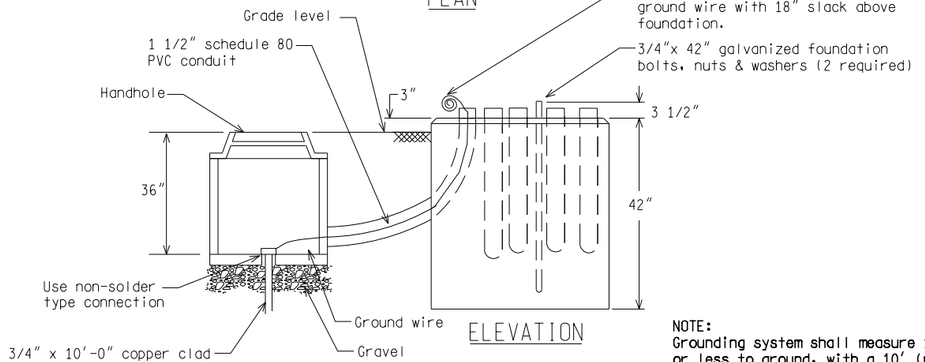


BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET



PLAN



ELEVATION

FOUNDATION

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

NOT TO SCALE

File:PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

MDOT Michigan Department of Transportation

PREPARED BY
TRAFFIC AND SAFETY

DRAWN BY:

CHECKED BY:

ENGINEER OF DELIVERY

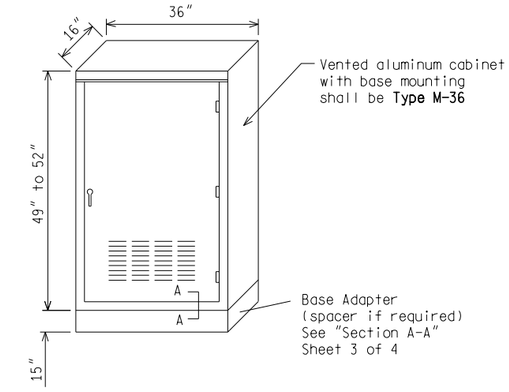
ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL)
FHWA APPROVAL DATE

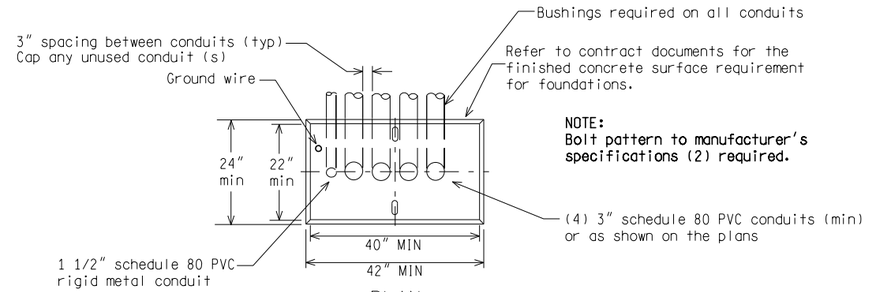
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

BASE MOUNTED T.S.
CONTROLLER CABINET/FOUNDATIONS

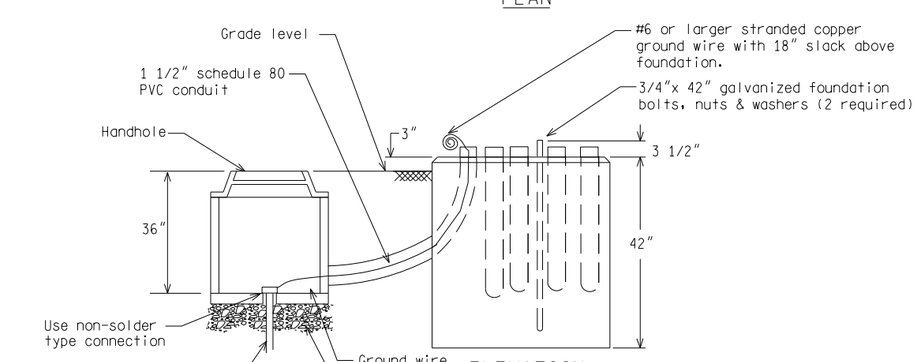
PLAN DATE	WC-045-A	SHEET 1 of 4



BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET



PLAN



ELEVATION

FOUNDATION

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

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE			
File:PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14	PLAN DATE	WC-045-A	SHEET 2 of 4

AS-LET PLAN REVISIONS

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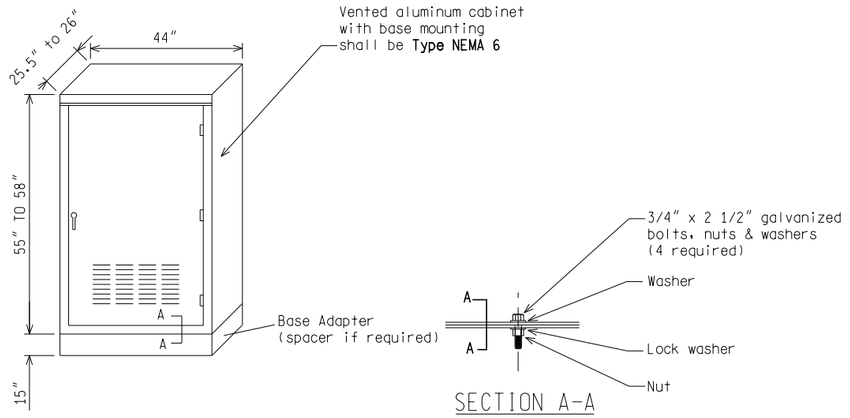
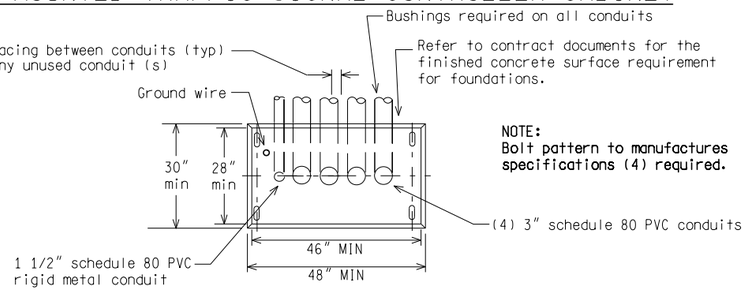
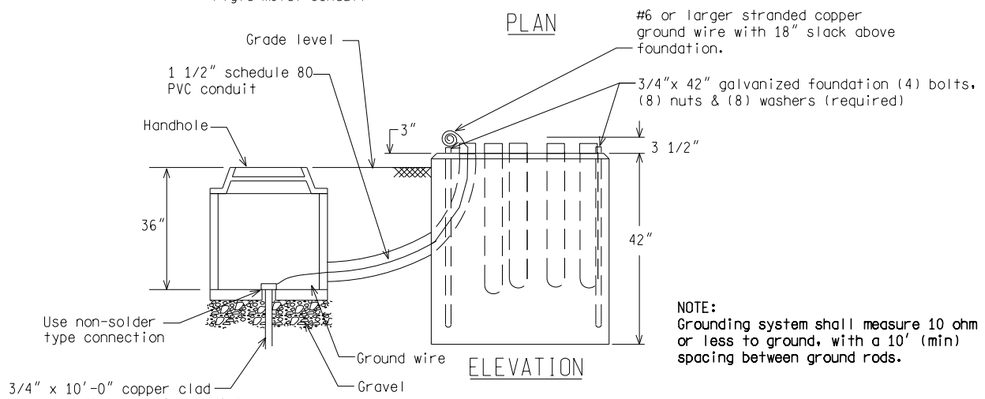


BASE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET



PLAN

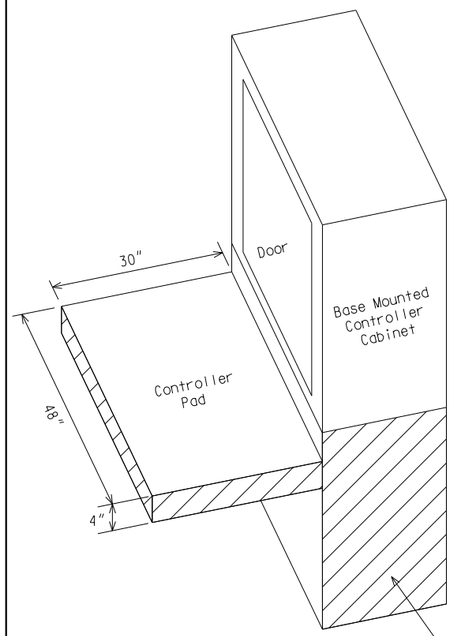


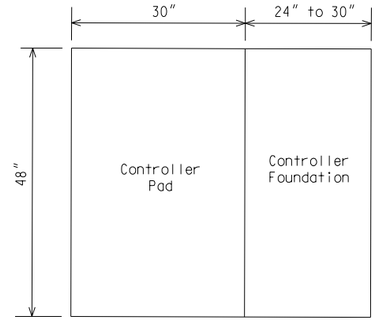
ELEVATION

FOUNDATION

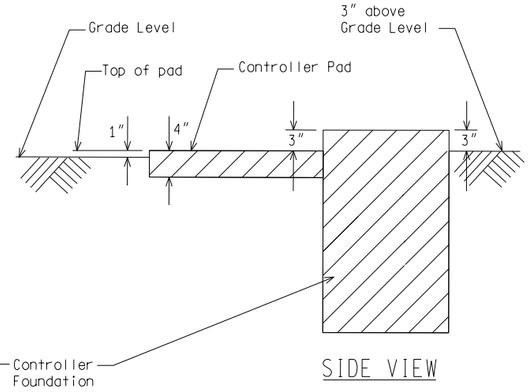
NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-045-A	SHEET 3 of4
File:PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14			





TOP VIEW



SIDE VIEW

BASE MOUNTED CONTROLLER PAD

NOTE:
Payment for controller pad to be included in controller foundation pay item.
Controller cabinet door to open toward pad.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-045-A	SHEET 4 of4
File:PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14			

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MDOT Michigan Department of Transportation

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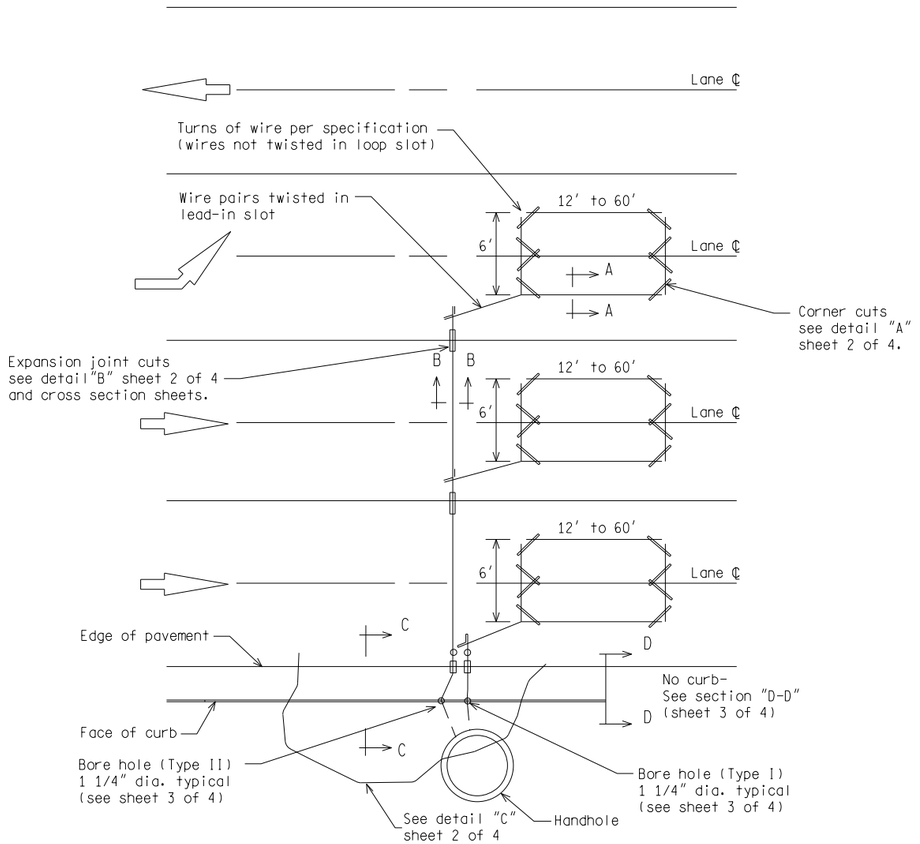


NOTES:
1) Lead-in slot may be on either near or far side of loop approach as directed by the Engineer.
2) Two loops maximum allowed per saw cut from loop to curb.
3) 3 turns required for loops equal to or greater than 6′x10′.
4) 4 turns required for loops less than 6′x10′.
5) Refer to contract documents for high pressure washing of saw cuts and removal of debris.

NOT TO SCALE

File: PW:RD/TR/Signals/WC SD/Final Rev. 10/21/14

MDOT Michigan Department of Transportation

PREPARED BY
TRAFFIC AND SAFETY

DRAWN BY:

CHECKED BY:

ENGINEER OF DELIVERY

ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL)
FHWA APPROVAL DATE

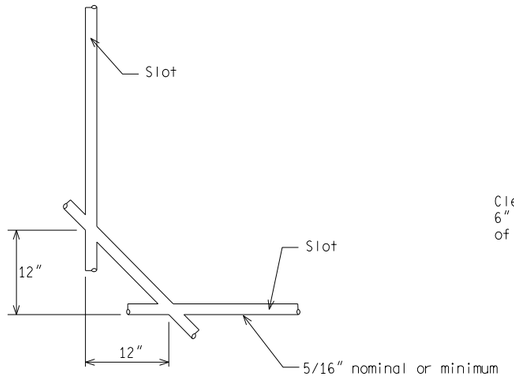
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

TRAFFIC LOOPS

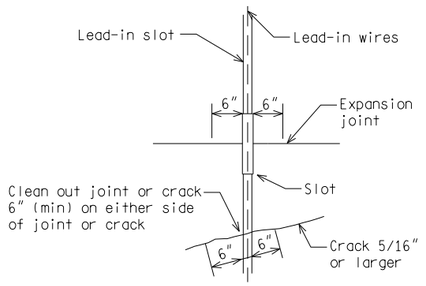
PLAN DATE

WC-170-A

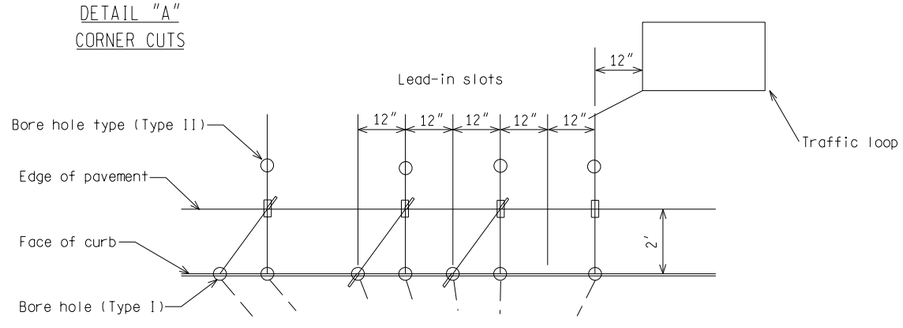
SHEET
1 of 4



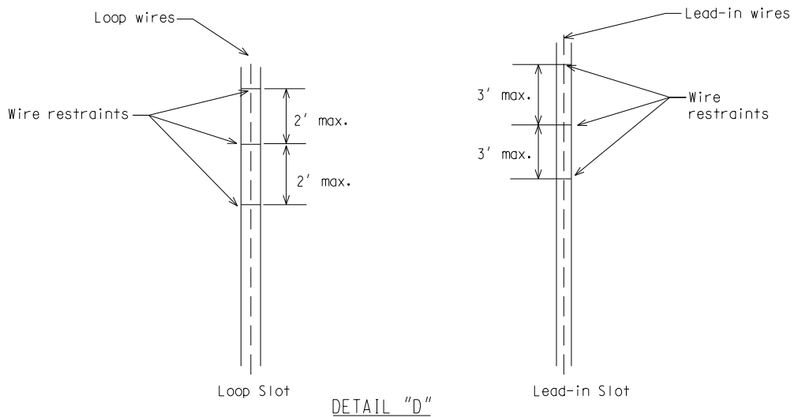
DETAIL "A"
CORNER CUTS



DETAIL "B"
EXPANSION JOINT CUTS



DETAIL "C"
TERMINATION OF LEAD-IN SLOTS



DETAIL "D"
WIRE RESTRAINTS

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN

(SPECIAL DETAIL)
FHWA APPROVAL DATE

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PLAN DATE

WC-170-A

SHEET
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AS-LET PLAN REVISIONS							
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MDOT Michigan Department of Transportation

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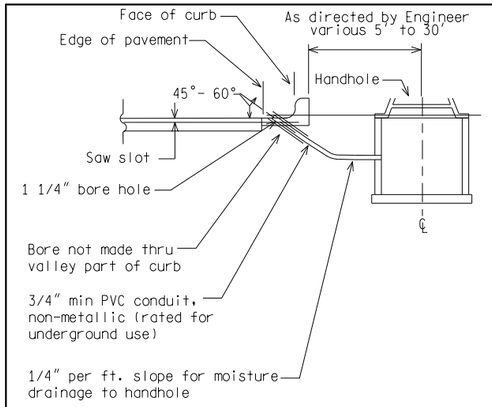
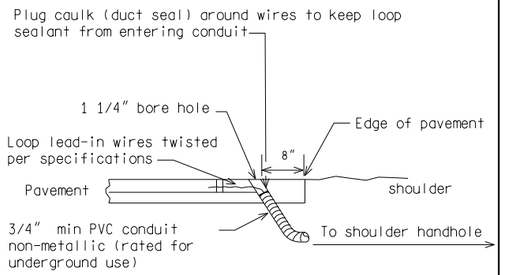
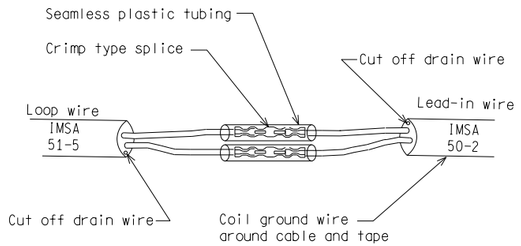
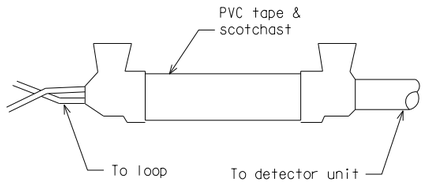


TYPE I
SECTION "C-C"
UNDER CURB INSTALLATION

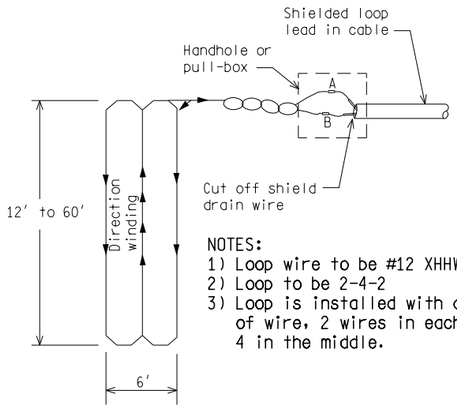


TYPE II
BORE HOLE & LOOP WIRING
SECTION "D-D"
UNDER PAVEMENT INSTALLATION



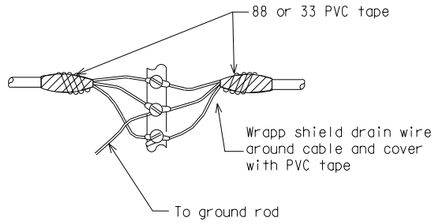


HANDHOLE & PULL-BOX SPLICES
(WATERPROOF)



NOTES:
1) Loop wire to be #12 XHHW
2) Loop to be 2-4-2
3) Loop is installed with a double layer of wire, 2 wires in each outside cut, 4 in the middle.

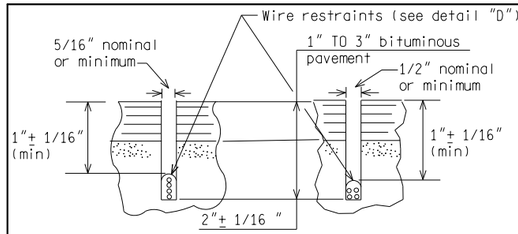
SERIES LOOP CONNECTION



CONTROLLER CABINET CONNECTION

NOT TO SCALE

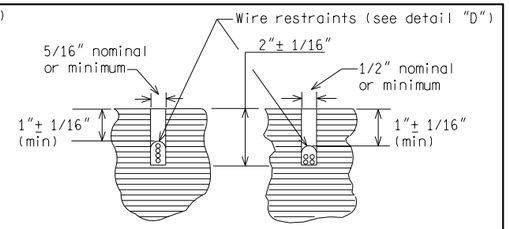
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-170-A	SHEET 3 of 4
File: PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14			



SECTION A-A
LOOP SLOT

SECTION B-B
LEAD-IN SLOT

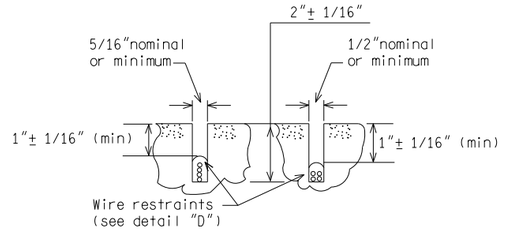
SLOT CROSS SECTIONS
(BITUMINOUS PAVEMENT OVER CONCRETE)



SECTION A-A
LOOP SLOT

SECTION B-B
LEAD-IN SLOT

SLOT CROSS SECTIONS
(BITUMINOUS PAVEMENT)



SECTION A-A
LOOP SLOT

SECTION B-B
LEAD-IN SLOT

SLOT CROSS SECTIONS
(CONCRETE PAVEMENT)

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) FHWA APPROVAL DATE	PLAN DATE	WC-170-A	SHEET 4 of 4
File: PW:RD/TR/Signals/WC SD/Final	Rev. 10/21/14			

AS-LET PLAN REVISIONS							
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MDOT Michigan Department of Transportation

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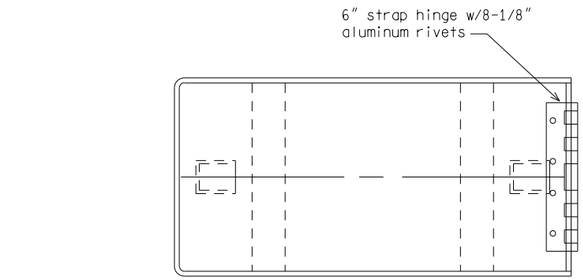

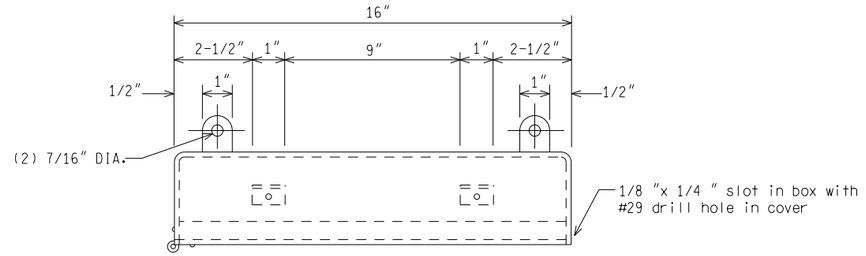

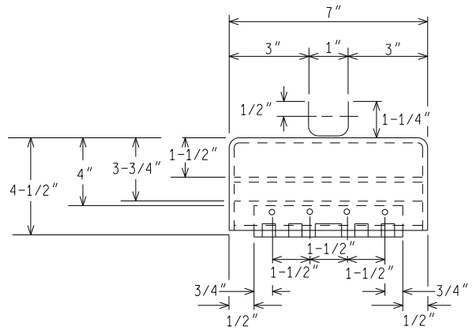

NOTES:
1) Box to be of weather tight construction.
2) Bushing for cable entrance to be liquid tight, sized per cable used.
3) Terminal Block to be cinch 17-142, 17 position or approved equal.
4) Mounting brackets to be same material as box.
5) All material to be 13 gauge sheet aluminum.

ALUMINUM SPAN WIRE JUNCTION BOX

NOT TO SCALE

File:PW:RD/TR/Signals/WC SD/Final Rev. 12/16/14

MDOT Michigan Department of Transportation

PREPARED BY
TRAFFIC AND SAFETY

DRAWN BY:DJF

CHECKED BY:

ENGINEER OF DELIVERY

ENGINEER OF DEVELOPMENT

(SPECIAL DETAIL)
FHWA APPROVAL DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

SPAN WIRE JUNCTION BOX

PLAN DATE

WC-408-A

SHEET
1 of 1

AS-LET PLAN REVISIONS

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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