OPTIONS SERVICE ELECTRICAL

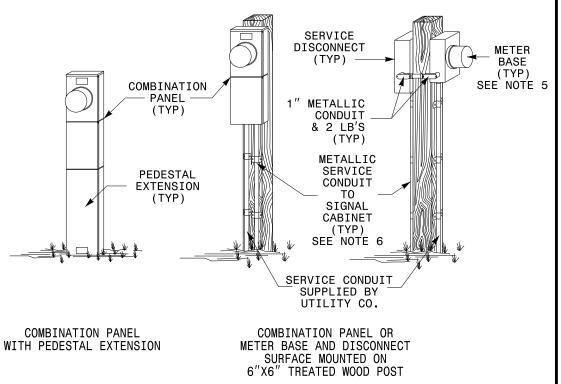
1-24 STATE OF
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

FOR DRAWING STANDARD ENGLISH

SHEET 1 OF 3

1700.01

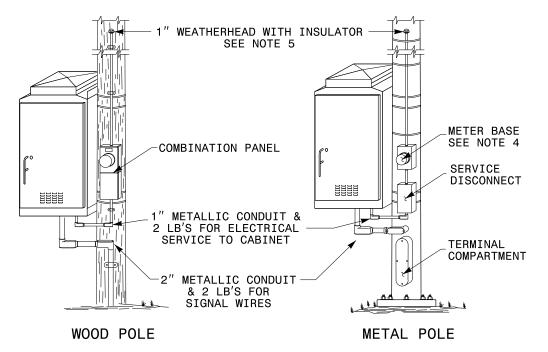
GROUND MOUNTED SERVICE EQUIPMENT OPTIONS FOR UNDERGROUND ELECTRICAL SERVICE



NOTES

- 1. LOCATE THE SERVICE EQUIPMENT NEAR THE SIGNAL CABINET IN A MANNER THAT WILL ALLOW EASY ACCESS TO THE SERVICE DISCONNECT. LOCATE SERVICE EQUIPMENT SO AS NOT TO OBSTRUCT SIGHT DISTANCE OF VEHICLES TURNING RIGHT ON RED.
- 2. FOR GROUND MOUNTED ELECTRICAL SERVICE INSTALLATIONS WHEN POST MOUNTING IS CHOSEN. INSTALL TREATED WOOD POSTS A MINIMUM OF 3 FEET INTO THE GROUND.
- 3. INSTALL ALL METER BASES MOUNTED IN PEDESTALS AT A HEIGHT NOT TO EXCEED 5 FEET AS MEASURED FROM THE CENTER OF THE METER. INSTALL ALL OTHER METER BASES AT A HEIGHT BETWEEN 4 FEET AND 5 FEET AS MEASURED FROM THE CENTER OF THE METER. SEAL ANY UNUSED MOUNTING HOLES ON COMBINATION PANELS, METER BASES AND SERVICE DISCONNECTS.
- 4. INSTALL OVERHEAD ELECTRICAL SERVICE ON POLES AS SHOWN WHEN UNDERGROUND SOURCE IS NOT AN OPTION. COMBINATION PANELS, OR METER BASES AND SERVICE DISCONNECTS, MAY BE INSTALLED ON POLÉS WHEN POLE MOUNTED SIGNAL CABINETS ARE REQUIRÉD FOR THE INSTALLATION. DO NOT ROUTE UNFUSED OVERHEAD ELECTRICAL SERVICE CONDUCTOR INSIDE OF METAL POLES.
- 5. TYPICAL POINT OF DELIVERY FOR UNDERGROUND SERVICE IS INSIDE OF METER BASE. TYPICAL POINT OF DELIVERY FOR OVERHEAD SERVICE IS AT THE WEATHERHEAD ENTRANCE AT THE TOP OF THE SERVICE RISER.
- 6. THE ABOVE GROUND PORTION OF ELECTRICAL SERVICE CONDUIT TO THE SIGNAL CABINET MUST BE METALLIC. THE BELOW GROUND PORTION MAY BE METALLIC OR PVC.

POLE MOUNTED SERVICE EQUIPMENT OPTIONS FOR OVERHEAD ELECTRICAL SERVICE





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FOR DRAWING **ANDARD** STENGLISH

BREAKER MAIN WITH ECT DISCONN ERVICE

SHEET 2 OF 3

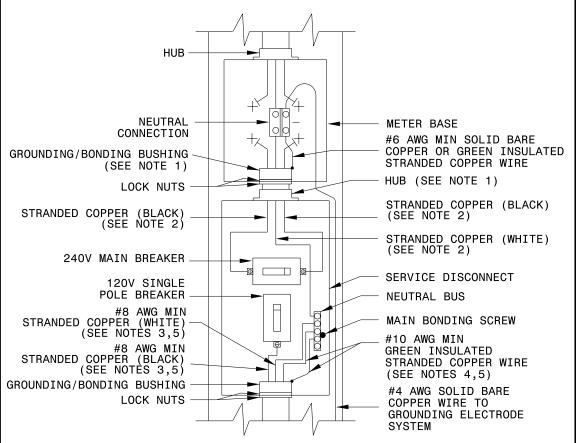
1700.01

HUB NEUTRAL METER BASE CONNECTION #6 AWG MIN SOLID BARE COPPER OR GREEN INSULATED GROUNDING/BONDING BUSHING STRANDED COPPER WIRE (SEE NOTE 1) HUB (SEE NOTE 1) LOCK NUTS STRANDED COPPER (BLACK) STRANDED COPPER (BLACK) (SEE NOTE 2) (SEE NOTE 2) STRANDED COPPER (WHITE) (SEE NOTE 2) 240V MAIN BREAKER SERVICE DISCONNECT 120V SINGLE POLE BREAKER **NEUTRAL BUS** #8 AWG MIN MAIN BONDING SCREW STRANDED COPPER (WHITE) (SEE NOTÈS 3,5) #10 AWG MIN #8 AWG MIN STRANDED COPPER (BLACK) GREEN INSULATED STRANDED COPPER WIRE (SEE NOTÈS 3,5) (SEE NOTES 4,5) GROUNDING/BONDING BUSHING **#4 AWG SOLID BARE** LOCK NUTS COPPER WIRE TO GROUNDING ELECTRODE SYSTEM

TYPICAL ELECTRICAL CONNECTION DETAIL FOR

OVERHEAD SERVICE INSTALLATION

SERVICE DISCONNECT WITH MAIN BREAKER (SHOWN WITH METER BASE/SERVICE DISCONNECT OPTION AND WITH GROUNDING ELECTRODE CONDUCTOR TERMINATED IN DISCONNECT)



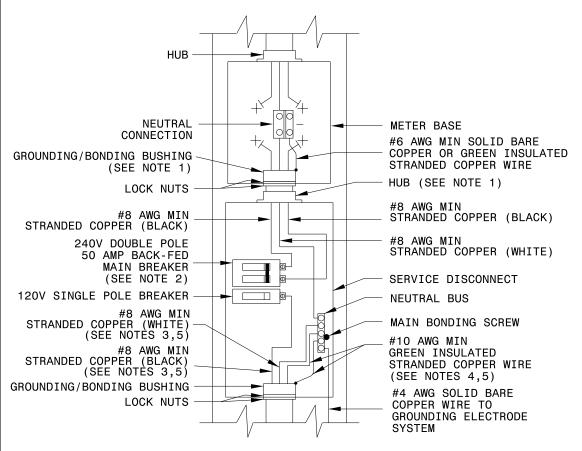
NOTES

- 1. WHEN USING A HUB LISTED AS A GROUNDING HUB (UL TYPES DWTT AND KDER), THE BONDING BUSHING IN THE METER BASE IS NOT NECESSARY.
- 2. SERVICE-ENTRANCE CONDUCTORS SHALL BE SIZED ACCORDING TO THE NEC.
- 3. WIRE SIZE FOR THESE CONDUCTORS SHALL BE #8 AWG MINIMUM FOR A 50 AMP CIRCUIT AND #10 AWG MINIMUM FOR A 30 AMP CIRCUIT.
- 4. FOR TRAFFIC SIGNAL INSTALLATIONS, THIS CONDUCTOR SHALL BE #10 AWG MIN STRANDED COPPER WITH INSULATION THAT IS GREEN WITH ONE OR MORE YELLOW STRIPES.
- 5. THE AMPACITIES LISTED HERE DO NOT TAKE INTO ACCOUNT ANY VOLTAGE DROP CONSIDERATIONS OR TEMPERATURE COMPATIBILITY WITH THE CONNECTION POINTS.

 \overline{S} DISCONNE CAL TRI(EC

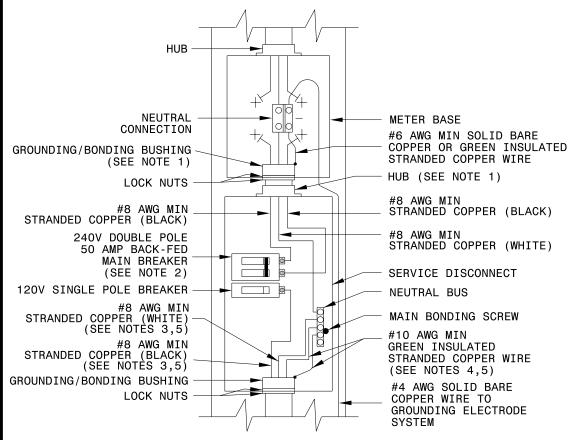
(SHOWN WITH METER BASE/SERVICE DISCONNECT OPTION AND WITH GROUNDING ELECTRODE CONDUCTOR TERMINATED IN DISCONNECT)

ALTERNATE ELECTRICAL CONNECTION DETAIL FOR OVERHEAD SERVICE INSTALLATION SERVICE DISCONNECT WITH BACK-FED MAIN BREAKER (SHOWN WITH METER BASE/SERVICE DISCONNECT OPTION AND WITH GROUNDING ELECTRODE CONDUCTOR TERMINATED IN METER)



TYPICAL ELECTRICAL CONNECTION DETAIL FOR

OVERHEAD SERVICE INSTALLATION SERVICE DISCONNECT WITH BACK-FED MAIN BREAKER



NOTES

- 1. WHEN USING A HUB LISTED AS A GROUNDING HUB (UL TYPES DWTT AND KDER), THE BONDING BUSHING IN THE METER BASE IS NOT NECESSARY.
- 2. BACK-FED MAIN BREAKER MUST BE SECURED BY AN ADDITIONAL FASTENER. BARRIERS SHALL BE INSTALLED TO PREVENT INADVERTENT CONTACT.
- 3. WIRE SIZE FOR THESE CONDUCTORS SHALL BE #8 AWG MINIMUM FOR A 50 AMP CIRCUIT AND #10 AWG MINIMUM FOR A 30 AMP CIRCUIT.
- 4. FOR TRAFFIC SIGNAL INSTALLATIONS, THIS CONDUCTOR SHALL BE #10 AWG MIN STRANDED COPPER WITH INSULATION THAT IS GREEN WITH ONE OR MORE YELLOW STRIPES.
- 5. THE AMPACITIES LISTED HERE DO NOT TAKE INTO ACCOUNT ANY VOLTAGE DROP CONSIDERATIONS OR TEMPERATURE COMPATIBILITY WITH THE CONNECTION POINTS.

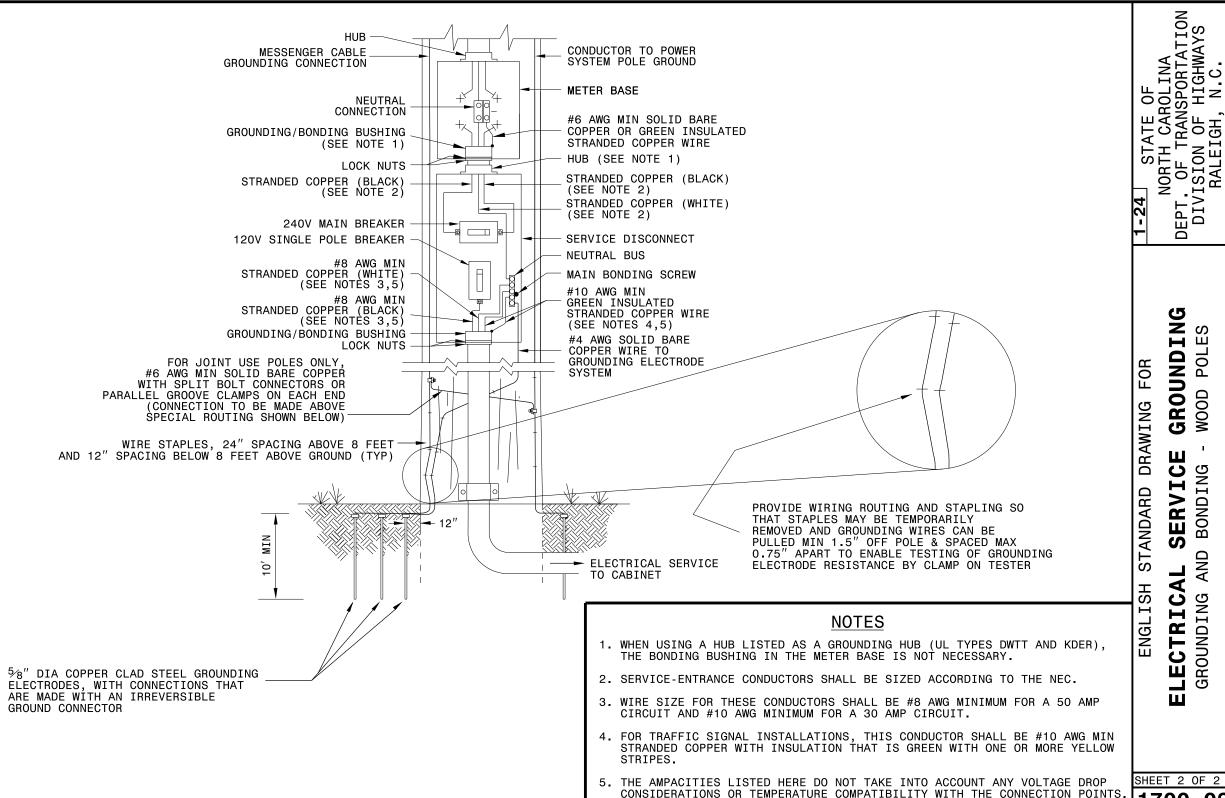
SHEET 3 OF 3

PLACE GROUNDING ELECTRODES IN A STRAIGHT LINE

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ENGLISH STANDARD DRAWING FOR ELECTRICAL SERVICE GROUNDING MULTIPLE AND SECTIONAL ELECTRODES

SHEET 1 OF 2



SHEET 2 OF 2 1700.02

DEPT

GROUNDING

SERVICE BONDING

LECTRICA

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POL

WOOD

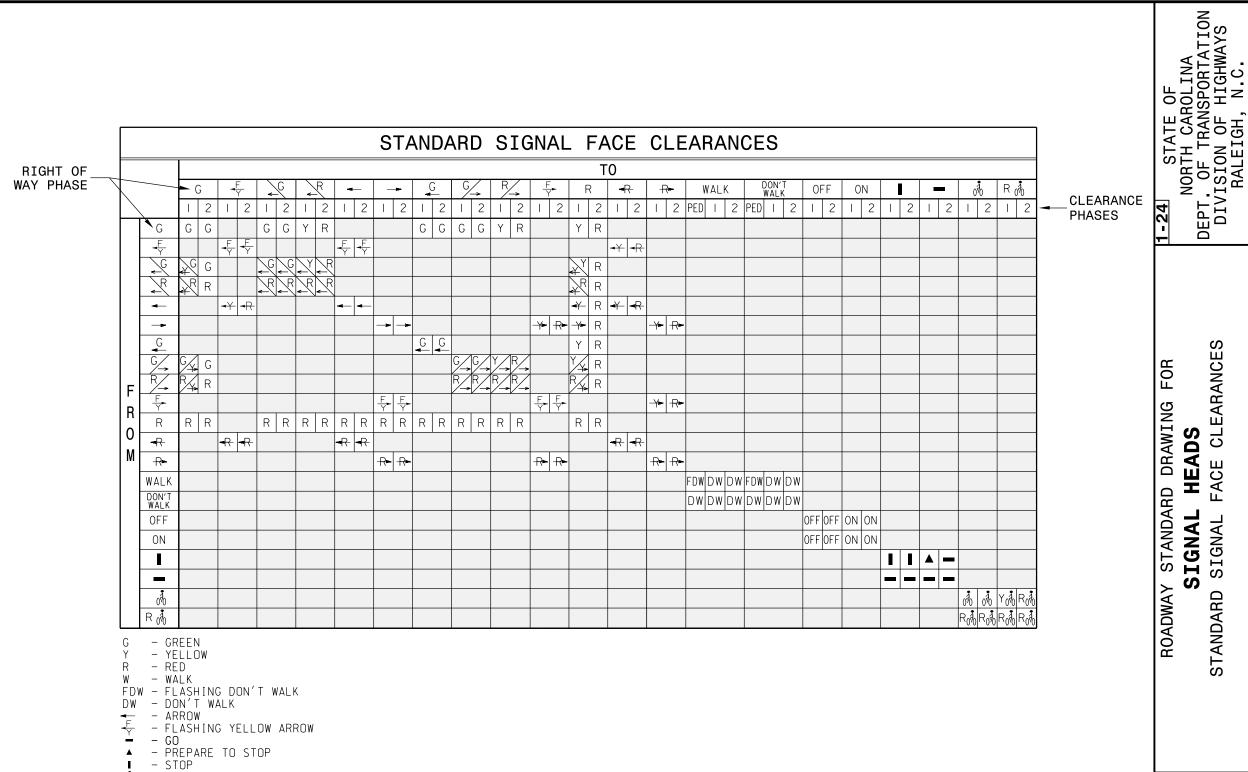
AND

GROUNDING

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RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR SIGNAL HEADS VEHICULAR SIGNAL HEADS

SHEET 1 OF 2

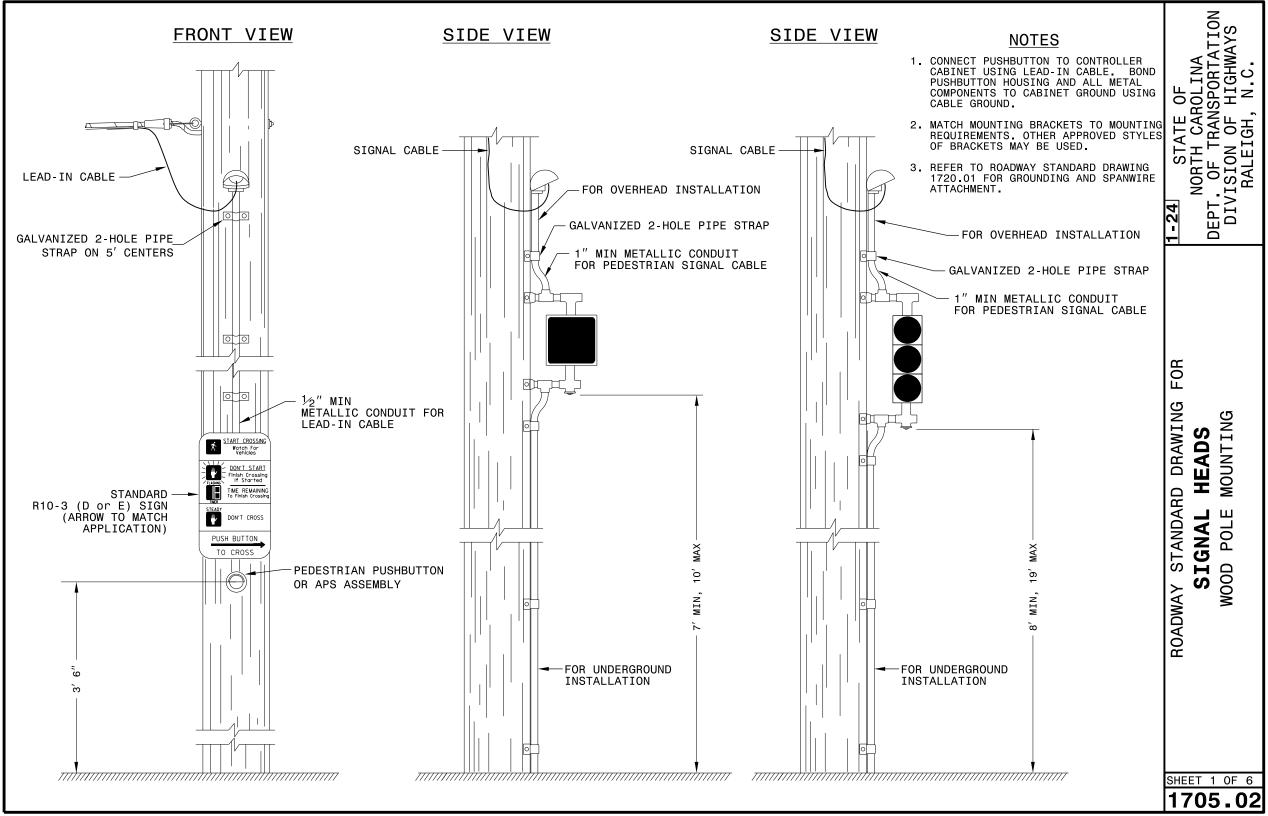


- BICYCLE DISPLAY

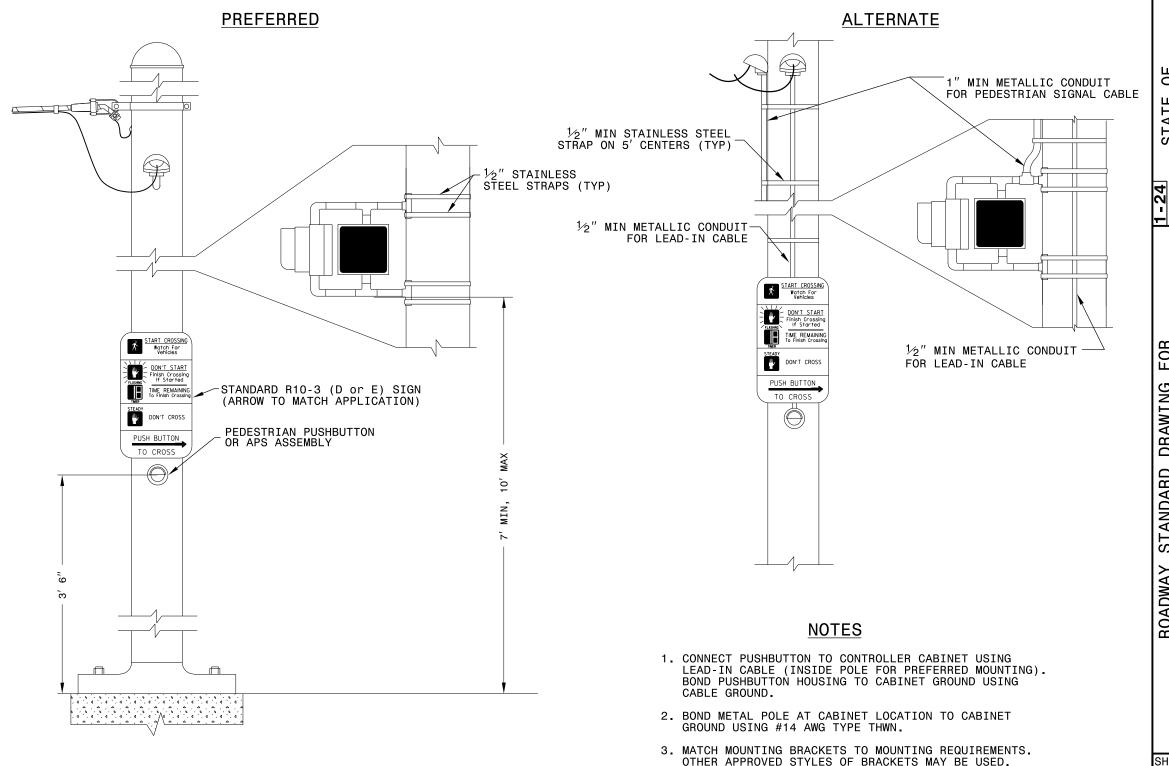
FACE CLEARANCES **HEADS** SIGNAL SIGNAL STANDARD

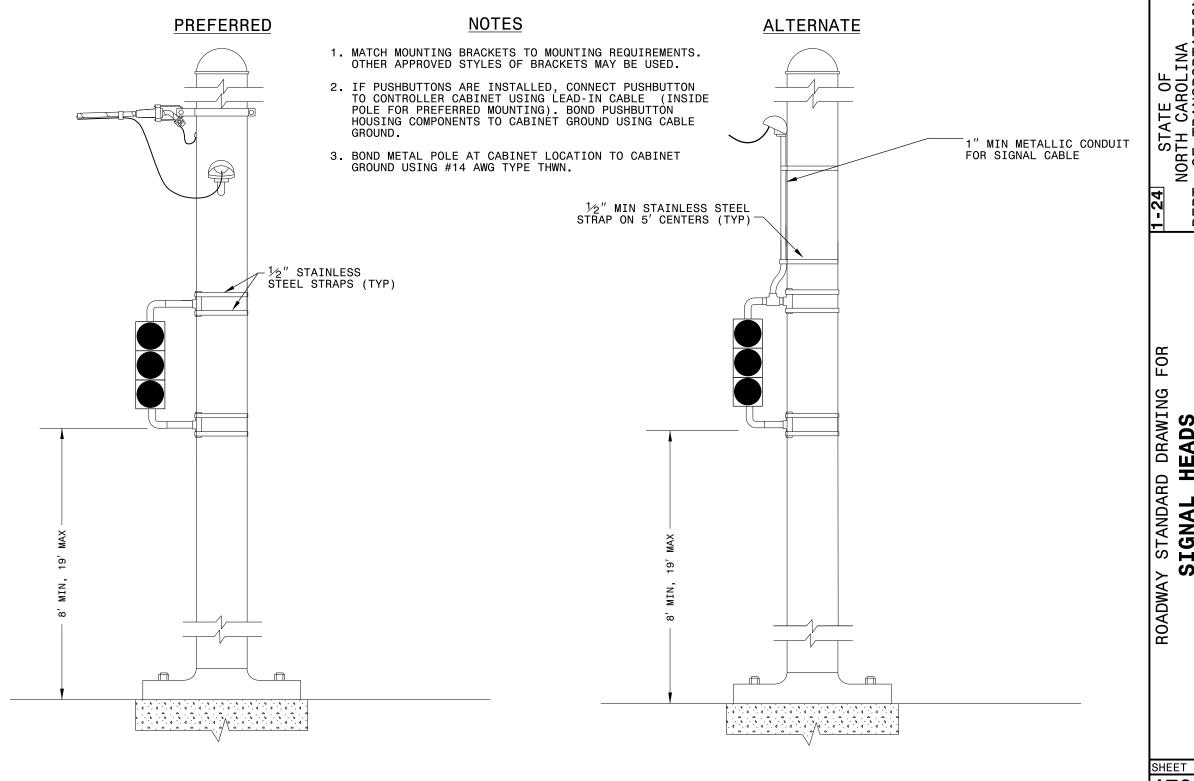
SHEET 2 OF 2 1705.01

DEPT.



SHEET 2 OF 6





NORTH CAR EPT. OF TRANS DIVISION OF RALEIGH, DEPT

> POLE MOUNTING **HEADS** STEEL IGNAL ASSEMBLIES VEHICLE

SHEET 3 OF 6

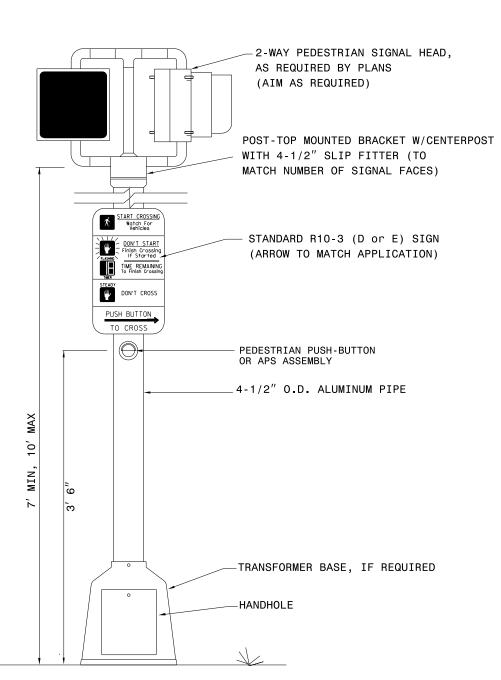


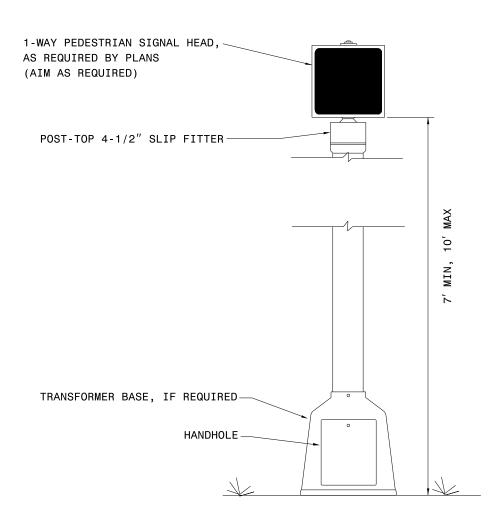
PEDESTRIAN

SHEET 4 OF 6

1705.02

3. REFER TO ROADWAY STANDARD DRAWING 1743 FOR PEDESTAL

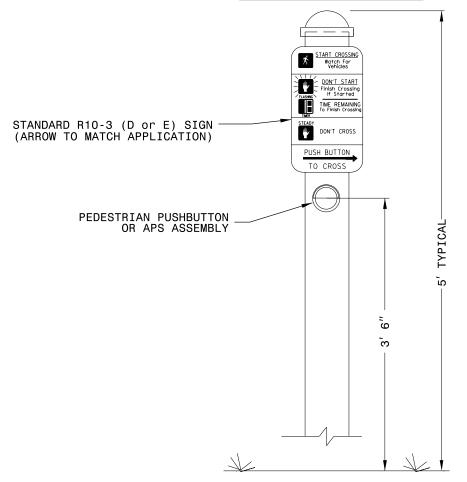




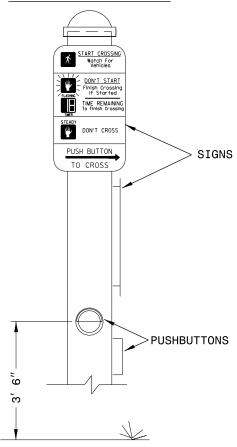
NOTE

- 1. CONNECT PUSHBUTTON TO CONTROLLER CABINET USING LEAD-IN CABLE. BOND PUSHBUTTON HOUSING AND ALL METAL COMPONENTS TO CABINET GROUND USING CABLE GROUND.
- 2. BOND PEDESTAL ASSEMBLY TO CABINET GROUND WITH #14 AWG TYPE THWN.
 - INFORMATION.

SINGLE PUSHBUTTON



DUAL PUSHBUTTON

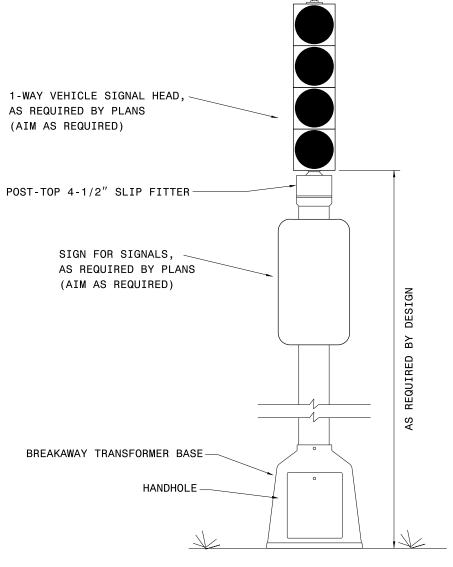


NOTES

- 1. CONNECT PUSHBUTTON TO CONTROLLER CABINET USING LEAD-IN CABLE. BOND PUSHBUTTON HOUSING AND ALL METAL COMPONENTS TO CABINET GROUND USING CABLE GROUND.
- 2. REFER TO ROADWAY STANDARD DRAWING 1743 FOR PEDESTAL INFORMATION.

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. DEPT POST MOUNTING FOR STANDARD DRAWING **PUSHBUTTON HEADS IGNAL** PEDESTRIAN ASSEMBLIES ROADWAY

SHEET 5 OF 6 1705 • 02



- 1. IF PUSHBUTTONS ARE INSTALLED, CONNECT PUSHBUTTON TO CONTROLLER CABINET USING LEAD-IN CABLE. BOND PUSHBUTTON HOUSING TO
- 2. BOND PEDESTAL ASSEMBLY TO CABINET GROUND WITH #14 AWG
- 3. SIGNAL HEAD MOUNTING OPTIONS SHOWN ARE GRAPHICAL DEPICTIONS ONLY AND DO NOT REFLECT THE TYPE OF PEDESTAL THAT MAY BE REQUIRED FOR A SPECIFIC LOAD APPLICATION. REFER TO ROADWAY STANDARD DRAWING 1743.02 FOR PEDESTAL INFORMATION AND LOAD LIMITATIONS.

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MOUNTING **PEDESTAL HEADS IGNAL** ASSEMBLIES VEHICLE

STANDARD DRAWING

ROADWAY

SHEET 6 OF 6

SHEET 1 OF 1 1705.03

NGLISH STANDARD DRAWING FOR	SIGNAL HEADS	WIRE COLOR CONVENTIONS

			IN	NDICATION '	TYPE/COLOR				
WIRE COLOR	R 3-SECTION CIRCULAR	3-SECTION ARROW	3-SECTION FYA	4-SECTION FYA	5-SECTION Y G G	HYBRID BEACON Y	TRANSIT SIGNAL	BICYCLE SIGNAL	PEDESTRIAN
RED	R				R	R (LEFT)	■ STOP	R 뤗	DON'T WALK
YELLOW	Y		← F	← Y	Y	Y	PREPARE TO STOP	Y 0%	
GREEN	G				G	R (RIGHT)	60	070	K WALK
RED-BLACK STRIPE		(R -	(R-	⟨ R-					
YELLOW-BLACK STRIPE		\\	\\	(\(-					
GREEN-BLACK STRIPE		←		\leftarrow	\rightarrow				
WHITE					NEUTRAL				

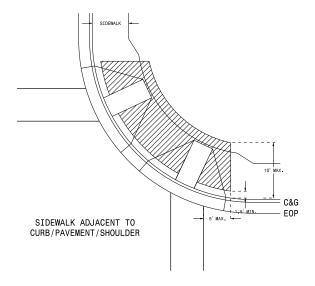
- 1) SOLID OR STRIPED COLORS MAY BE USED ON HEADS WITH MIXED INDICATION TYPES. WHERE PRACTICAL, COORDINATE WIRE COLOR WITH INDICATION COLOR. WHERE INSULATION COLOR DOES NOT MATCH THE INDICATION COLOR OF VEHICULAR DISPLAYS, WRAP APPROPRIATELY COLORED TAPE OVER INSULATION NEAR TERMINATION POINTS.
- 2) THE SPARE GREEN WIRE IN THE 4-CONDUCTOR SIGNAL CABLE BUNDLE MAY BE USED FOR THE SECOND RED INDICATION IN THE HYBRID BEACON. WRAP APPROPRIATELY COLORED TAPE OVER INSULATION NEAR TERMINATION POINTS.

SHEET 1 OF 3 1705.04

FOR STANDARD DRAWING ROADWAY

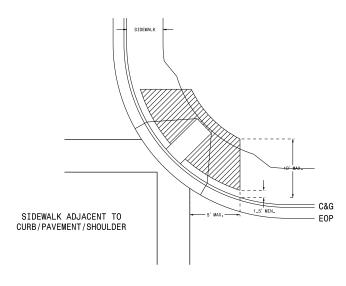
PUSHBUTTON PLACEMENT

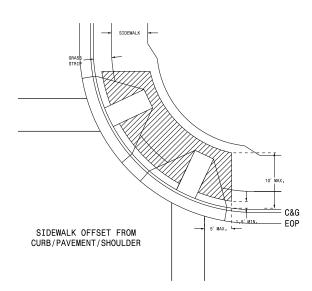
SHARED CURB RAMP

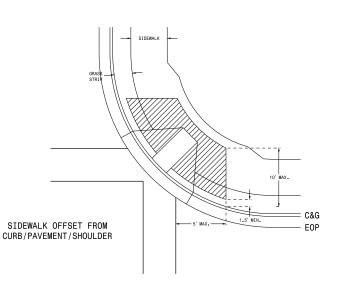


PUSHBUTTON PLACEMENT

SEPARATE CURB RAMPS







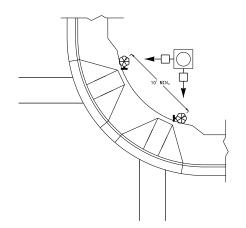
NOTES

- 1. Pushbutton pedestals should not be located further than 10 feet from the edge of curb. shoulder, or pavement.
- 2. The face of the pushbutton should be parallel to the applicable crosswalk.
- 3. Separate pushbuttons used on the same corner should be separated by a distance of at least 10 feet.
- 4. Pushbuttons shall be installed adjacent to a level surface with a maximum reach distance of 10 inches.
- 5. Maintain 4 feet of clearance around pedestal if located in sidewalk.
- 6. Refer to section 1705 of the 2018 NCDOT Roadway Standard Drawings for Pushbutton Assembly details.
- 7. Refer to section 1743 of the 2018 NCDOT Roadway Standard Drawinas for Pedestal details.
- 8. Contact Division Traffic Engineer for pushbutton location approval prior to installation.
- 9. Curb ramps are for symbolic use only and may not reflect actual design or field conditions.

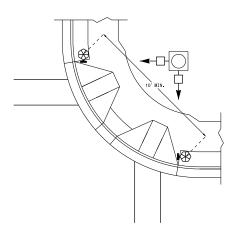
PROPOSED	<u>LEGEND</u>
○	Signal Pole Type I Pushbutton Post
\bigcirc	Type II Signal Pedestal
-	Pushbutton & Sign
-□->	Pedestrian Signal Head
/	Curb Ramp
	Pushbutton Location Area

TYPICAL PUSHBUTTON LOCATIONS (CASE I)

SEPARATE CURB RAMPS W/ TYPE I PEDESTALS

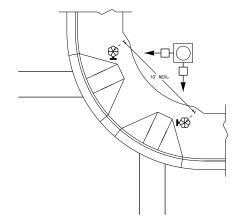


BACK OF SIDEWALK IS WITHIN 10' OF CURB OR PAVEMENT/SHOULDER



GRASS STRIP PLACEMENT IF BACK OF SIDEWALK EXCEEDS 10' FROM CURB OR PAVEMENT/SHOULDER

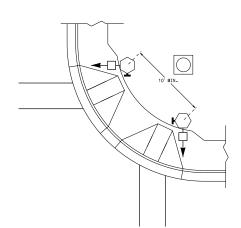
TYPICAL PUSHBUTTON LOCATIONS (CASE II) SEPARATE CURB RAMPS W/ TYPE II PEDESTALS



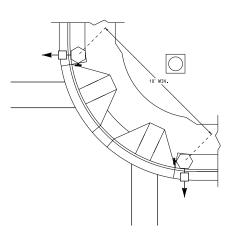
PUSHBUTTON PLACEMENT IN WIDE SIDEWALK

LEGEND PROPOSED 0 Signal Pole ⊗ Type I Pushbutton Post \bigcirc Type II Signal Pedestal \vdash Pushbutton & Sign ---Pedestrian Signal Head 1 Curb Ramp Pushbutton Location Area

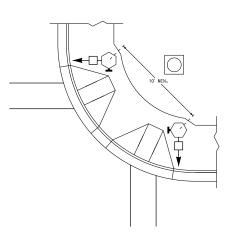
OPTIONAL PUSHBUTTON EXTENSION FACE OF PUSHBUTTON PARALLEL TO APPLICABLE CROSSWALK



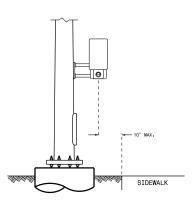
BACK OF SIDEWALK IS WITHIN 10' OF CURB OR PAVEMENT/SHOULDER



GRASS STRIP PLACEMENT IF BACK OF SIDEWALK EXCEEDS 10' FROM CURB OR PAVEMENT/SHOULDER



PUSHBUTTON PLACEMENT IN WIDE SIDEWALK



FOR

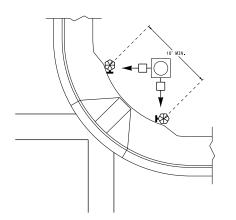
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DEPT

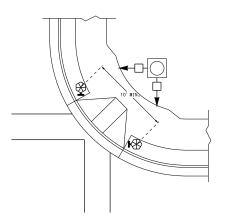
SHEET 2 OF 3

TYPICAL PUSHBUTTON LOCATIONS (CASE III)

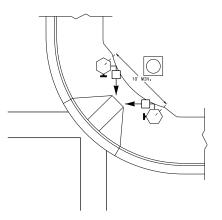
SHARED CURB RAMPS



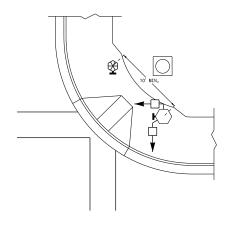
BACK OF SIDEWALK IS WITHIN 10' OF CURB OR PAVEMENT/SHOULDER



GRASS STRIP PLACEMENT IF BACK OF SIDEWALK EXCEEDS 10' FROM CURB OR PAVEMENT/SHOULDER

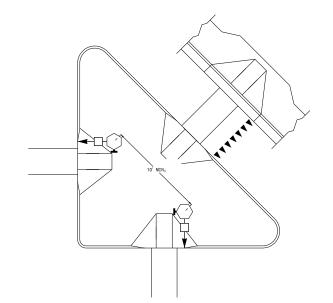


PUSHBUTTON PLACEMENT IN WIDE SIDEWALK (CORRESPONDING PUSHBUTTONS AND SIGNAL HEADS ON DIFFERENT PEDESTALS)

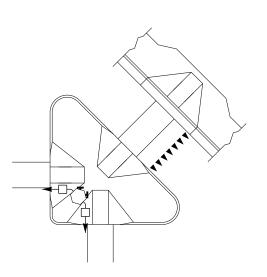


PUSHBUTTON PLACEMENT WITH SHARED TYPE II SIGNAL PEDESTAL AND TYPE I PUSHBUTTON POST

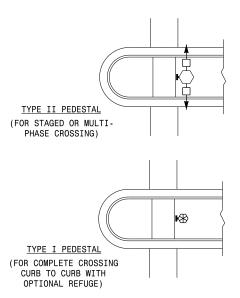
TRAFFIC ISLAND PUSHBUTTON LOCATIONS



PUSHBUTTON PLACEMENT IN LARGE "PORK CHOP ISLAND" WITH SEPARATE PEDESTALS



PUSHBUTTON PLACEMENT IN SMALL "PORK CHOP ISLAND" WITH SHARED PEDESTAL



PUSHBUTTON PLACEMENT IN MEDIAN

<u>LEGEND</u>
Signal Pole Type I Pushbutton Post Type II Signal Pedestal
Pushbutton & Sign Pedestrian Signal Head Curb Ramp Pushbutton Location Area

SHEET 3 OF 3

1705.04

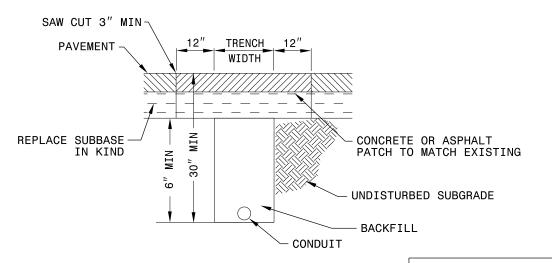
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RALEIGH, N.C. -24 DEPT

FOR

DEPT

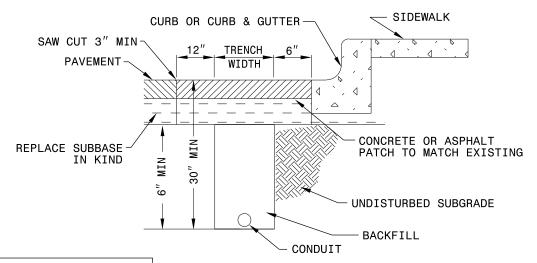
FOR DRAWING STANDARD UNDERGROUND ROADWAY

IN EXISTING PAVEMENT (AT GUTTER)



IN EXISTING PAVEMENT

(NOT AT GUTTER)

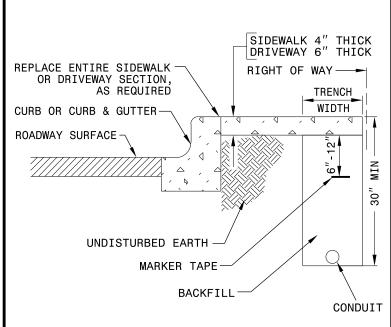


TRENCH

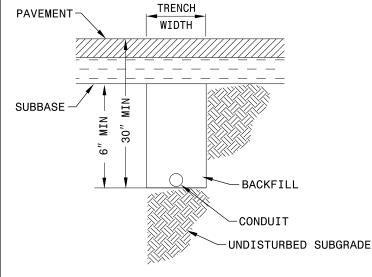
WIDTH

THE REMOVAL OF PAVEMENT BEYOND THE EDGES OF THE TRENCH, AS SHOWN, WILL NOT BE REQUIRED IF SAID EDGES ARE SAW CUT AND MAINTAINED NEATLY WITH NO SHATTER.

IN SIDEWALK OR DRIVEWAY



IN NEW PAVEMENT



-12 NIM -UNDISTURBED EARTH 30″ MARKER TAPE BACKFILL CONDUIT

IN EARTH

MATCH FINISHED GRADE

NOTE

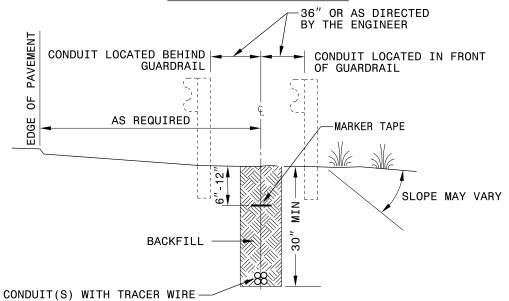
DIG TRENCH WIDE ENOUGH TO ACCEPT THE REQUIRED CONDUITS AND TO PERMIT PROPER COMPACTION.

SHEET 1 OF 2

DEPT

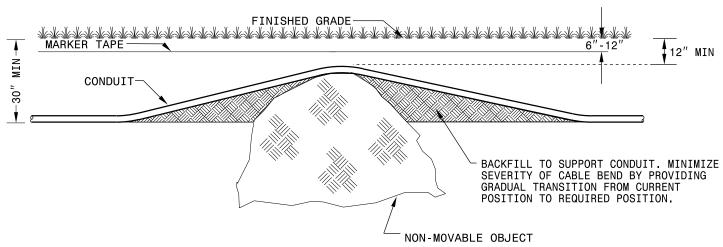
NOTE

THE CONTRACTOR, WITH APPROVAL FROM THE ENGINEER, MAY ADJUST FINAL BURIAL DEPTH OF CONDUIT(S) IN ORDER TO TRAVERSE NON-MOVABLE OBJECTS.



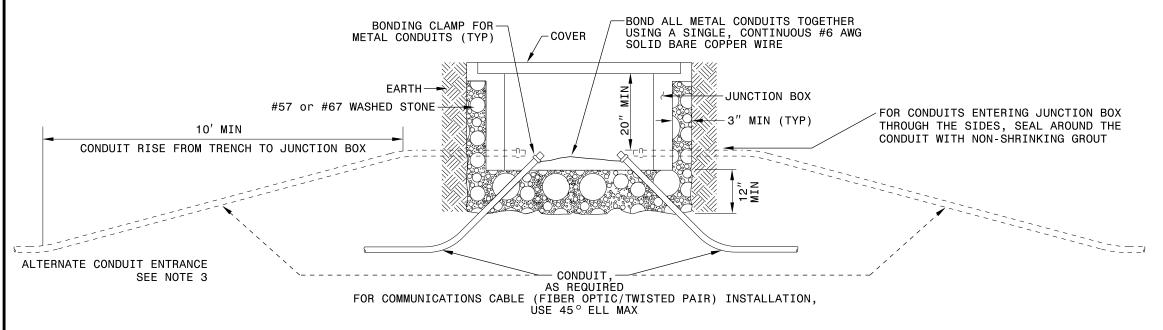
CONDUIT TRENCHING

CONDUIT TRENCHING AROUND NON-MOVABLE OBJECT



SHEET 2 OF 2

JUNCTION BOX OVER-SIZED AND SPECIAL OVER-SIZED



TOP VIEW OF COVER

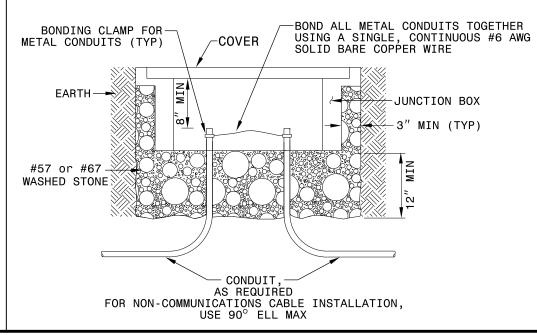
TRAFFIC SIGNAL ITS STANDARD SIZE STANDARD SIZE JUNCTION BOX JUNCTION BOX TRAFFIC NCDOT \Box \Box SIGNAL ELECTRICAL EMBOSSED, IMPRESSED, MOLDED OR ENGRAVED LETTERS MIN ½" HIGH NCDOT FIBER OPTIC OVER-SIZED AND SPECIAL OVER-SIZED

JUNCTION BOX

NOTES

- 1. OTHER STYLES OF JUNCTION BOXES WILL BE ACCEPTABLE PROVIDED THEY SATISFY REQUIREMENTS OF SECTION 1716 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 2. SECURE COVER WITH TWO HEX BOLTS.
- 3. INSTALL CONDUIT THROUGH BOTTOM OF JUNCTION BOX. AS AN ALTERNATIVE, CONDUIT MAY ENTER THROUGH "MOUSE HOLE" INTO SIDE OF JUNCTION BOX ACCORDING TO THE PLANS OR WITH ENGINEER'S APPROVAL.
- 4. FOR CURB AND GUTTER SECTIONS, LOCATE JUNCTION BOXES A MINIMUM OF 6" BEHIND BACK OF CURB AND FOR PAVEMENT SECTIONS A MINIMUM OF 2' FROM PAVEMENT EDGE OR WITHIN RIGHT OF WAY.
- 5. COIL AND STORE 10' OF TRACER WIRE IN ALL JUNCTION BOXES WITH FIBER OPTIC CABLE.
- INSTALL ALL JUNCTION BOXES A MINIMUM OF 4' FROM THE CENTERLINE OF ANY DITCH.

JUNCTION BOX STANDARD SIZE



ROADWAY STANDARD DRAWING FOR JUNCTION BOXES

NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

SHEET 1 OF 1

10,

TO ELECTRICAL

SERVICE METER BASE OR

2" METALLIC CONDUIT TO

CABINET OR PULL BOX

5/8" DIA COPPER CLAD STEEL

IRREVERSIBLE COMPRESSION

GROUND CONNECTION

GROUNDING ELECTRODE, DRIVEN INTO UNDISTURBED EARTH WITH DISCONNECT

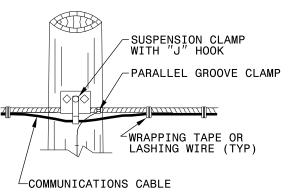
#4 OR #6 AWG SOLID BARE

CONDUCTOR (DOWN POLE TO

MESSENGER CABLE (TYP)

COPPER WIRE GROUNDING

GROUNDING ELECTRODE)



NOTE

PARALLEL

PARALLEL GROOVE CLAMP

3-BOLT CLAMP

OR EQUIVALENT

GROOVE CLAMP

FOR CONNECTING MESSENGER TO MESSENGER, USE PARALLEL GROOVE CLAMP, 3-BOLT CLAMP OR EQUIVALENT. FOR CONNECTING COPPER WIRE TO MESSENGER, USE PARALLEL GROOVE CLAMP.

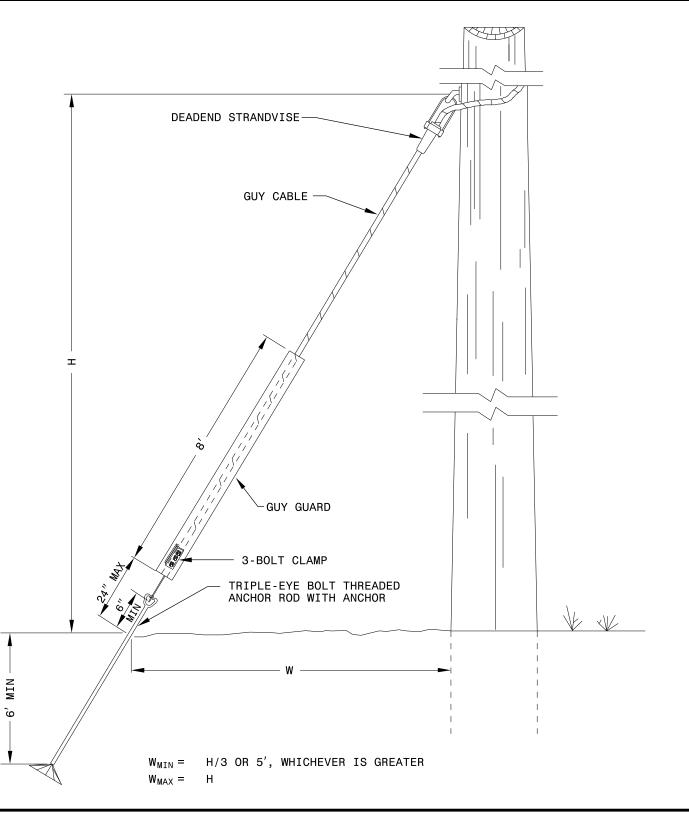
GROUNDING FOR DRAWING AND POLI ATTACHMENT STANDARD WOOD ROADWAY P METHODS

DEPT

SHEET 1 OF 1

GENERAL NOTES

- 1. GUY EACH SPAN SEPARATELY.
- 2. USE EYE HARDWARE (EYE BOLTS, EYE NUTS, ANGLE EYES, EYES, TRIPLE-EYE BOLT ANCHOR RODS) WITH ROUNDED GROOVES IN THE EYES. PROVIDE A SEPARATE GROOVE FOR EACH CABLE TO BE TERMINATED.
- 3. SEE ROADWAY STANDARD DRAWING 1720 FOR METHODS OF ATTACHMENT AND GROUNDING.



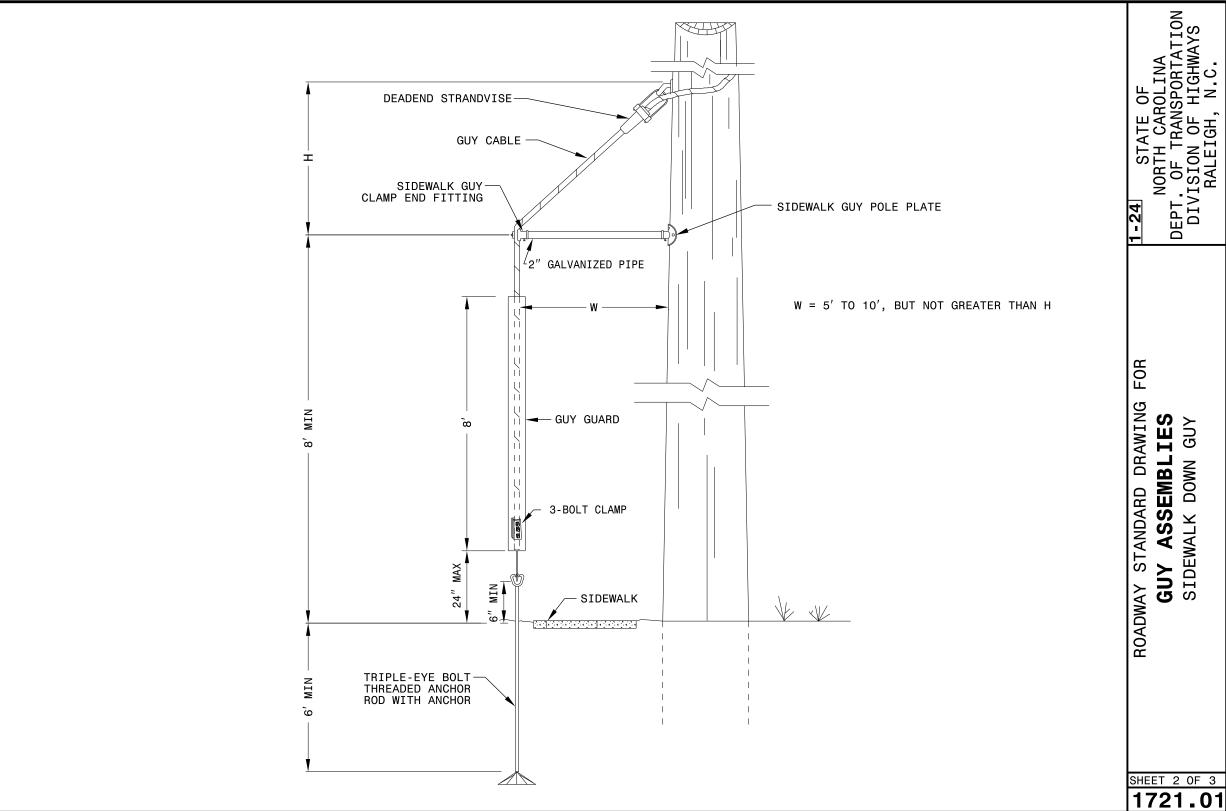
ROADWAY STANDARD DRAWING

GUY ASSEMBLIES

DIRECT DOWN GILY

FOR

SHEET 1 OF 3



DEPT ASSEMBLIES SIDEWALK DOWN GUY

1-24 STATE OF
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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR GUY ASSEMBLIES
AERIAL (BACK) GUYS

SHEET 3 OF 3

LOOP WINDING METHOD

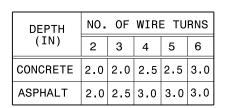
START

DETECTION INDUCTIVE ROADWAY

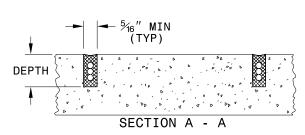
SHEET 1 OF 3

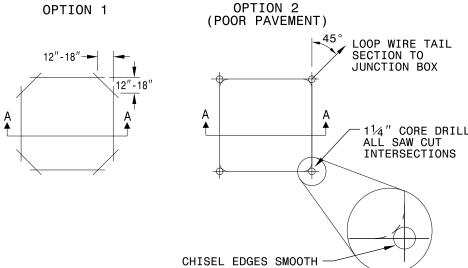
CONVENTIONAL 4-SIDED LOOP

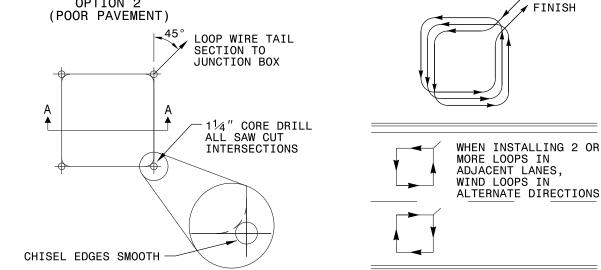
SAW CUT OPTIONS



SAW SLOT DEPTH CHART







LOOP WIRE TWISTING METHOD

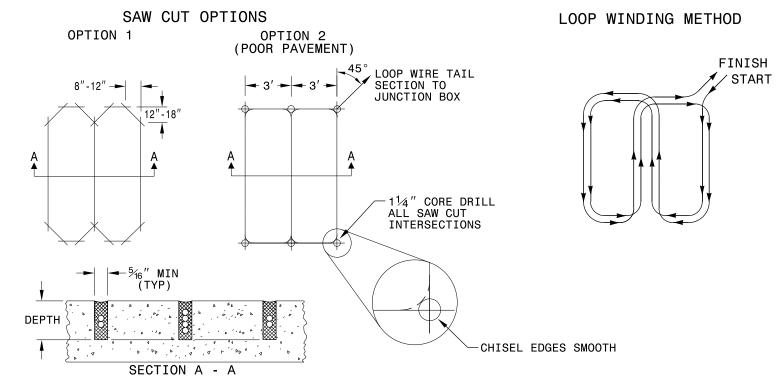
INCORRECT WAY TO TWIST WIRE



NOTES

- 1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- 3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
- 4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

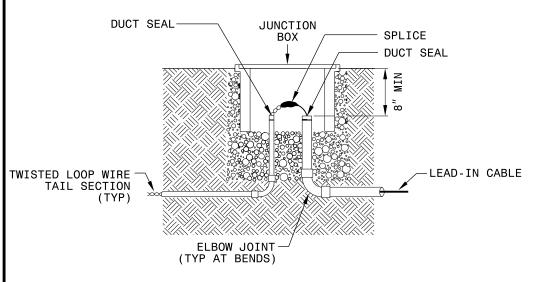
QUADRUPOLE LOOP



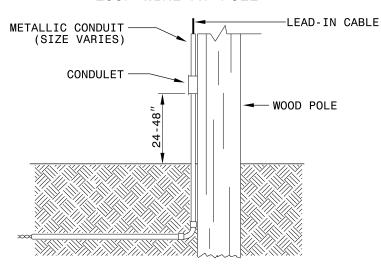
DEPTH IS 2.5" FOR CONCRETE AND 3.0" FOR ASPHALT

LOOP WIRE SPLICE POINT DETAILS

LOOP WIRE AT JUNCTION BOX



LOOP WIRE AT POLE

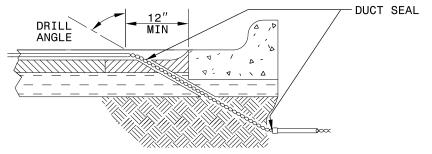


NOTE

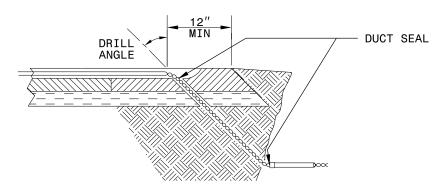
SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

LOOP WIRE PAVEMENT EDGE DETAILS

LOOP WIRE AT CURB & GUTTER SECTION



LOOP WIRE AT PAVEMENT SECTION



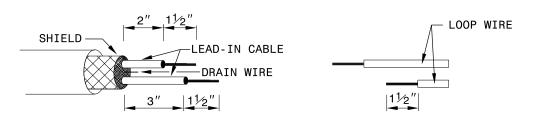
NOTES

- 1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
- 2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
- 3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

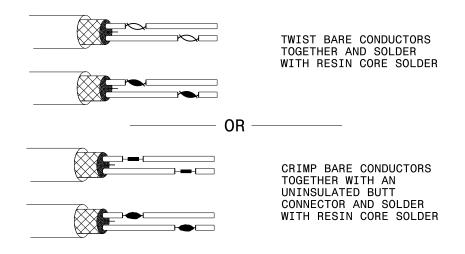
1-24 STATE OF
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DIVISION OF HIGHWAYS

ROADWAY STANDARD DRAWING FOR INDUCTIVE DETECTION LOOPS LOOP WIRE DETAILS

SHEET 2 OF 3

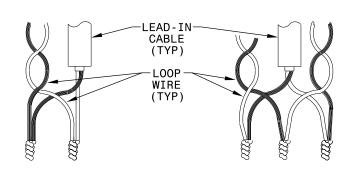


STEP 2. CONNECT AND SOLDER

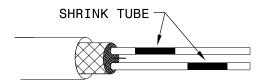


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

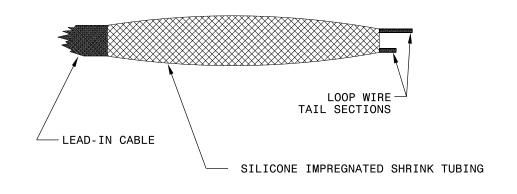
LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS SINGLE CONNECTION SERIES CONNECTION



STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY



STEP 4. ENVIRONMENTALLY PROTECT SPLICE



1-24 STATE OF
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DIVISION OF HIGHWAYS

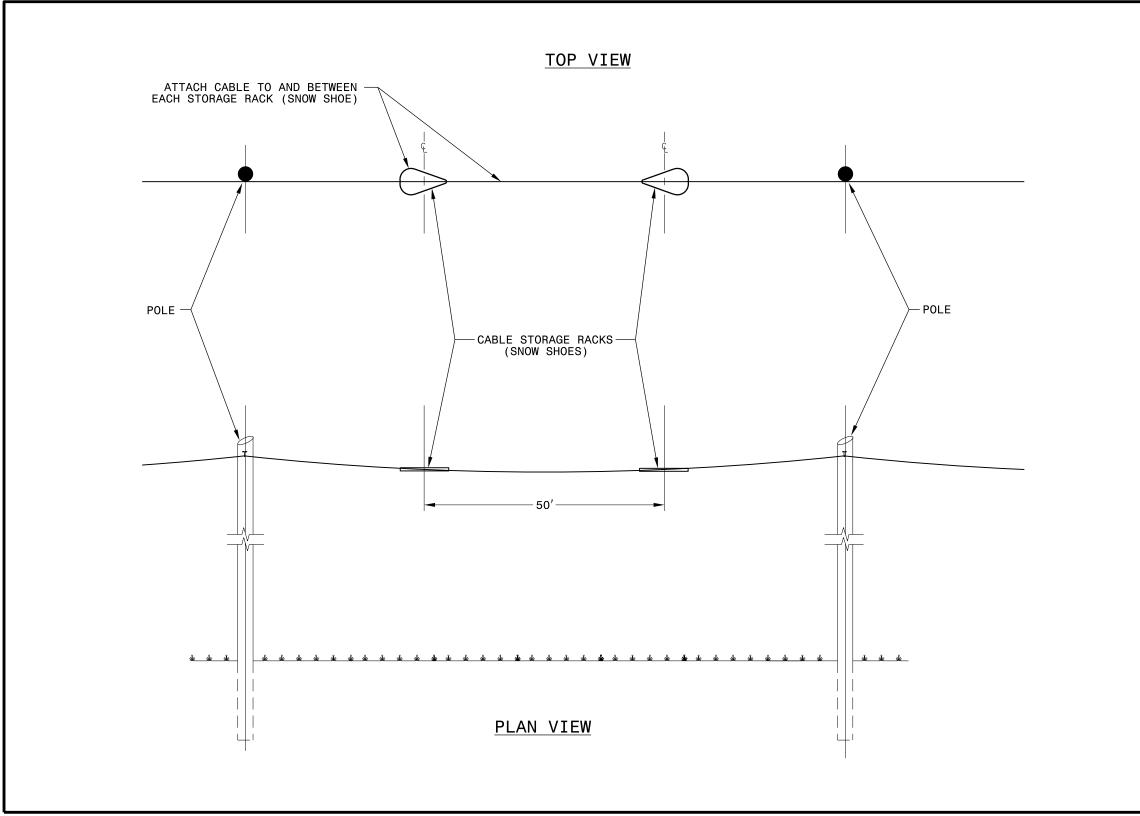
WIRE .00PS LOOP AND DETECTION CABLE LEAD-IN INDUCTIVE FOR SPLICING

FOR

STANDARD DRAWING

ROADWAY

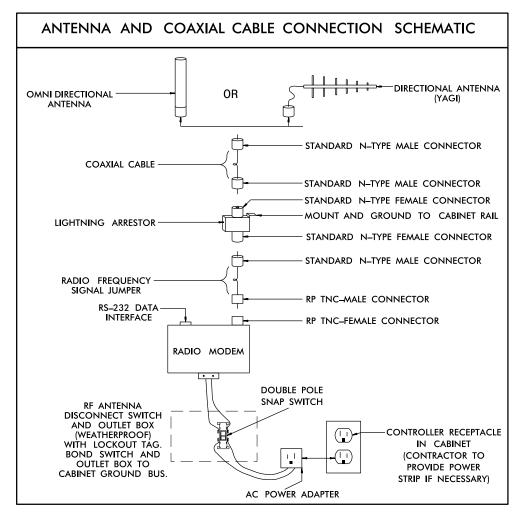
SHEET 3 OF 3



1-24 STATE OF
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR FIBER-OPTIC CABLE SPARE CABLE STORAGE

SHEET 1 OF 1



1-24 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

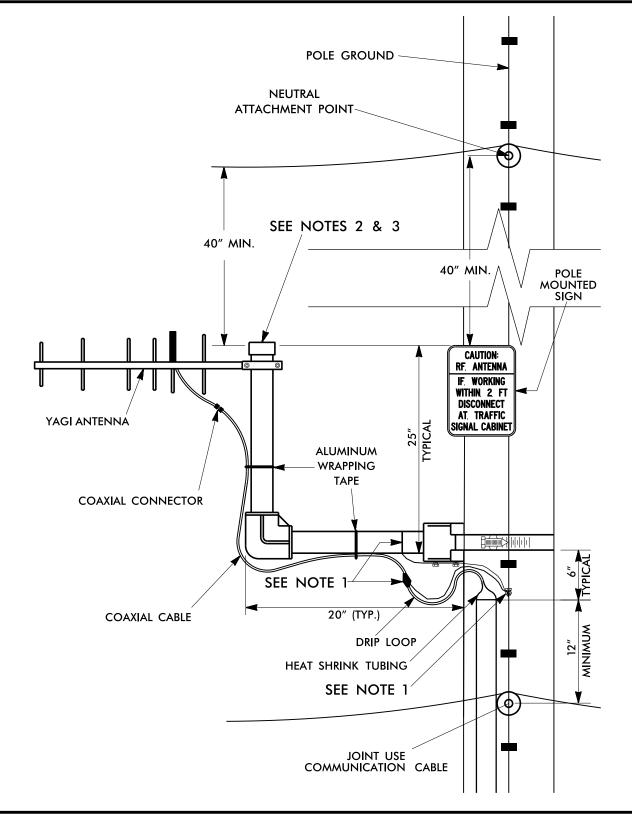
SPREAD SPECTRUM RADIO
RADIO SYSTEM INSTALLATION

SHEET 1 OF 5

I. WOOD POLE — BOND # 6 AWG SOLID BARE COPPER WIRE TO ANTENNA SUPPORT USING LISTED PIPE CLAMP. BOND OTHER END OF # 6 AWG SOLID BARE COPPER WIRE TO THE POLE GROUND USING A SPLIT BOLT CONNECTOR. BOND SHIELD OF COAXIAL CABLE WITH AN APPROVED GROUNDING SYSTEM (USING #6 AWG STRANDED COPPER WIRE) BONDED TO THE POLE GROUND. WEATHERPROOF THE CONNECTION ONCE THE GROUNDING SYSTEM IS INSTALLED. ENSURE "POLE GROUND" IS IN PLACE.

METAL POLE — BOND # 6 AWG SOLID BARE COPPER WIRE TO ANTENNA SUPPORT USING LISTED PIPE CLAMP. BOND OTHER END OF # 6 AWG SOLID BARE COPPER WIRE TO THE POLE OR EXISTING SYSTEM GROUND USING A METHOD APPROVED BY THE ENGINEER. BOND SHIELD OF COAXIAL CABLE WITH AN APPROVED GROUNDING SYSTEM (USING #6 AWG STRANDED COPPER WIRE) BONDED TO THE POLE BY A METHOD APPROVED BY THE ENGINEER. WEATHERPROOF THE CONNECTION ONCE THE GROUNDING SYSTEM IS INSTALLED. ENSURE "SYSTEM GROUND" IS IN PLACE.

- TO CONSERVE VERTICAL SPACING ON THE POLE (JOINT-USE OR SIGNAL POLE) WITH REGARDS TO THE SURROUNDING UTILITIES, INSTALL THE ANTENNA MOUNTING HARDWARE USING ONE OF THE TWO METHODS LISTED BELOW: (ENSURE THAT THE MOUNTING METHOD DOES NOT DEGRADE THE ANTENNA'S SIGNAL INTEGRITY)
 - A) ROTATE THE VERTICAL SUPPORT ARM 90 DEGREES SUCH THAT THE ANTENNA IS AT THE SAME HEIGHT AS THE HORIZONTAL SUPPORT ARM.
 - B) ELIMINATE THE VERTICAL SUPPORT ARM AND MOUNT THE ANTENNA TO THE HORIZONTAL SUPPORT ARM.
 - C) ANTENNA, ANTENNA SUPPORT ARM, AND SIGN TO MAINTAIN A 40" SEPARATION FROM NEUTRAL /POWER AND 12" FROM OTHER UTILITIES.
- 3. INSTALL AN END CAP TO SEAL THE EXPOSED END OF THE MOUNTING PIPE.



SIAIE OF NORTH CAROLINA DEPT. OF TRANSPORTATION OF HIGHWAYS

ROADWAY STANDARD DRAWING FOR SPREAD SPECTRUM RADIO ANTENNA AND COAXIAL CABLE

SHEET 2 OF 5

SIGN NUMBER: SP05224 BACKG COLOR: Yellow DESIGN BY: S PIOTROWSKI DATE: Revised M.Manriquez 5/23/2017 CHECKED BY: SUSAN B. KUNZ TYPE: DECAL COPY COLOR: Black DIV: INTELLIGENT TRANSPORTATION SYSTEM PROJECT ID: QUANTITY: SYMBOL Х Υ WID HT SIGN WIDTH: 0'-9" HEIGHT: 0'-6" TOTAL AREA: 0.4 Sq.Ft. NOTE: RF ANTENNA **BORDER TYPE: FLUSH** RECESS: 0" THIS WIDTH: 0.25" ŢØ.5" RADII: **DISCONNECT** 9 SIGN MAT'L: 0.063" (1.6 mm) ALUMINUM NO. Z BARS: LENGTH: Tø.5 SHALL **SWITCH** USE NOTES: BE 1 Legend and border shall be direct applied **PRODUCED** non-reflective sheeting. 2. Background shall be Grade C reflective sheeting. AS 0.9 7.2" DECAL BORDER R = 1 " TH=0.25"

LETTER POSITIONS

								Lett	ter	spac	ing	s ar	e to	st	art	of ı	next	let	ter					Series/Siz Text Lengt
	R	F		Α	N	Т	Е	N	N	А														C1
0.9	0.8	0.5	1	0.8	0.7	0.7	0.7	0.8	0.7	0.6	0.9													7.2
	D	I	s	С	0	N	N	Е	С	Т														C1
1.2	0.8	0.3	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.5	1.2													6.7
	s	w	I	Т	С	н																		C1
2.6	0.7	0.9	0.3	0.7	0.7	0.5	2.6																	3.9
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1-24 STATE OF
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DIVISION OF HIGHWAYS

ROADWAY STANDARD DRAWING FOR SPREAD SPECTRUM RADIO
RF ANTENNA DISCONNECT DECAL

SHEET 3 OF 5

POLE MOUNTED SIGN

SIGN NUMBER: SP05223

BACKG COLOR: Yellow COPY COLOR: Black

TYPE: D
QUANTITY:

SIGN WIDTH: 0'-9" HEIGHT: 1'-0"

TOTAL AREA: 0.8 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.2"
RADII: 1"

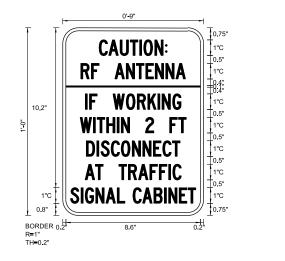
SYMBOL	Х	Υ	WID	HT
BAR	0.2	8.2	8.6	1.0

NO Z BARS: LENGTH: MAT'L: 0.063" (1.6 mm) ALUMINUM

USE NOTES:

- 1. Legend and border shall be direct applied non-reflective sheeting.
- 2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY DATE: Revised M.Manriquez 5/23/2017 CHECKED BY: SUSAN KUNZ PROJECT ID: DIV: INTELLIGNET TRANSPORTATION SYSTEMS



0.60 SPACING FACTOR

LETTER POSITIONS

								Lett	ter	spac	ing	s ar	e to	sta	art	of r	next	let	ter	 		Series/Si Text Leng
	С	Α	U	Т	I	0	N	:														С
2.3	0.6	0.7	0.6	0.6	0.3	0.7	0.7	0.1	2.3													4.4
	R	F		Α	N	Т	Е	N	N	Α												С
1.1	0.7	0.5	1	0.7	0.6	0.6	0.6	0.7	0.6	0.6	1.1											6.7
	I	F		w	0	R	К	I	N	G												С
1.4	0.3	0.5	1	0.8	0.7	0.7	0.6	0.3	0.7	0.5	1.4											6.1
	w	I	Т	н	I	N		2		F	Т											С
1.1	0.9	0.2	0.6	0.7	0.3	0.5	1	0.5	1	0.6	0.5	1.1										6.8
	D	I	s	С	0	N	N	Е	С	Т												С
1.5	0.7	0.3	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5	1.5											6
	Α	т		Т	R	А	F	F	I	С												С
1.4	0.7	0.5	1	0.6	0.6	0.7	0.6	0.6	0.3	0.6	1.4											6.2
	s	I	G	N	Α	L		С	Α	В	I	N	Е	т								С
0.5	0.7	0.3	0.7	0.6	0.7	0.5	0.4	0.6	0.7	0.7	0.3	0.7	0.6	0.5	0.5							7.9

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROADWAY STANDARD DRAWING FOR SPREAD SPECTRUM RADIO RF ANTENNA WARNING SIGN

SHEET 4 OF 5

STATE OF JRTH CAROLINA OF TRANSPORTATION SION OF HIGHWAYS N.C. DIVISION OF RALEIGH, NORTH OF T DEPT

SYSTEMS STANDARD DRAWING FOR RADIO POWER SPECTRUM SPREAD

CABINET

AND AUXILIARY F VALONE REPEATER POWER, GROUND AND AL FOR STANDALONE ROADWAY

SHEET 5 OF 5

DRAWING STANDARD

MIN. THICKNESS

PEDESTRIAN

ROADWAY

SHEET 1 OF 1

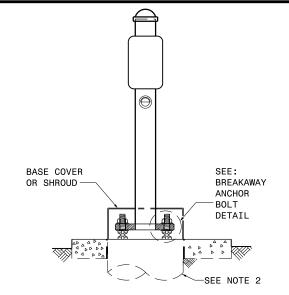
1743.01



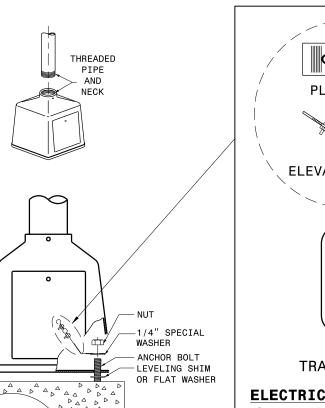
- 1. CONSTRUCT POSTS ON FHWA APPROVED BREAKAWAY BASES OR ANCHORS.
- 2. CONSTRUCT POST FOUNDATIONS IN ACCORDANCE WITH STANDARD DRAWING 1743.04.
- PUSHBUTTON POSTS ARE DESIGNED FOR USE IN ALL WIND ZONE REGIONS. BASE REACTIONS FOR 2 PUSHBUTTONS AND 2 9"X12" PEDESTRIAN SIGNS ARE:

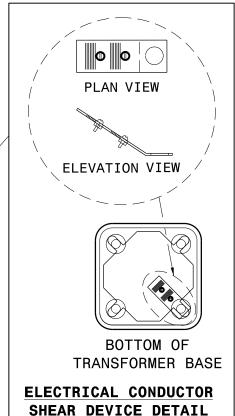
SHEAR LOAD: 120 LBS MOMENT LOAD: 435 FT LBS

- 4. BASE REACTIONS ARE BASED ON A DESIGN LOADING FOR 2 PUSHBUTTONS AND 2 PEDESTRIAN SIGNS. DO NOT EXCEED THE DESIGN LOADING WITHOUT APPROVAL.
- 5. ALL ELECTRICAL CONDUCTORS INSIDE OF BREAKAWAY SUPPORTS SHOULD SHEAR OR BECOME DISCONNECTED AS CLOSE TO THE FOUNDATION BASE AS POSSIBLE DURING A KNOCKDOWN. REFER TO ELECTRICAL CONDUCTOR SHEAR DEVICE DETAIL. IF ALTERNATIVES ARE AVAILABLE, THEY CAN BE USED PER APPROVAL OF THE
- 6. FLANGE BASE WITH BREAKAWAY BOLT OPTION MAY ONLY BE USED FOR TYPE I PEDESTRIAN PUSHBUTTON POSTS.

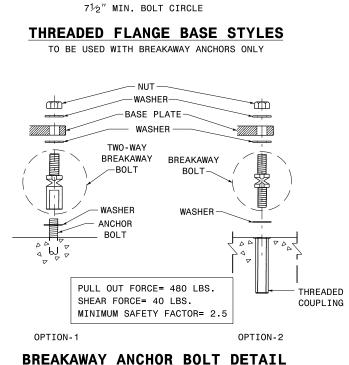


PUSHBUTTON POST ON FLANGE BASE WITH **BREAKAWAY ANCHOR BOLTS**





SEE NOTE #5



TO BE USED WITH THREADED FLANGE BASES ONLY

TOP VIEW

SIDE VIEW

PUSHBUTTON POST ON BREAKAWAY TRANSFORMER BASE

POLE CAP, ACORN TYPE (ALUMINUM)

41/2" O.D. ALUMINUM PIPE MIN. THICKNESS = 0.237

PEDESTRIAN PUSH-BUTTON

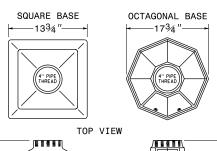
(SEE RDWY STD. DWG. 1705)

BREAKAWAY TRANSFORMER BASE

TOP OF SIDEWALK

TOP OF FOUNDATION

SEE NOTE 2

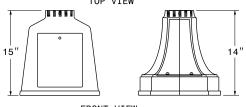


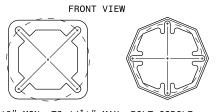
β

REQUIRED

FINISHED

GRADE

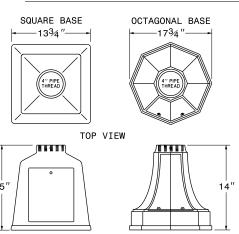


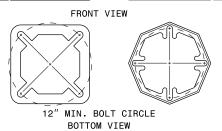


12" MIN. TO 141/2" MAX. BOLT CIRCLE BOTTOM VIEW

NORMAL DUTY TRANSFORMER BASE STYLES

TRANSFORMER BASE ANCHORING DETAIL

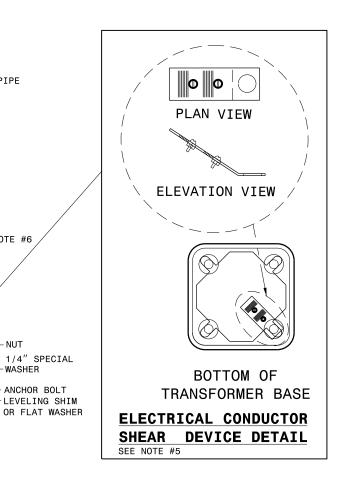




NORMAL DUTY TRANSFORMER BASE STYLES

NOTES:

- 1. CONSTRUCT PEDESTALS ON FHWA APPROVED BREAKAWAY BASES OR ANCHORS
- 2. CONSTRUCT PEDESTAL FOUNDATIONS IN ACCORDANCE WITH STANDARD DRAWING 1743.04.
- 3. NORMAL DUTY PEDESTALS ARE DESIGNED FOR A WIDE VARIETY OF TRAFFIC SIGNAL AND PEDESTRIAN SIGNAL APPLICATIONS IN ALL WIND ZONE REGIONS AS LONG AS THE DESIGN CAN BE ACCOMPLISHED USING AN 8' OR 10' ALUMINUM POST AND:
 - WHEN USED EXCLUSIVELY FOR PEDESTRIAN SIGNAL APPLICATIONS WHERE THE DESIGN LOADING DOES NOT EXCEED: 2 PEDESTRIAN SIGNALS, 2 9"X12" PEDESTRIAN SIGNS AND 2 PUSHBUTTONS.
 - WHEN USED EXCLUSIVELY FOR VEHICLE SIGNAL APPLICATIONS WHERE THE DESIGN LOADING DOES NOT EXCEED: 2 3-SECTION 12" POST TOP MOUNTED SIGNAL HEADS.
 - WHEN USED FOR BOTH PEDESTRIAN AND VEHICLE SIGNAL APPLICATIONS WHERE THE DESIGN LOADING DOES NOT EXCEED: 1 3-SECTION 12" POST TOP MOUNTED SIGNAL HEAD, 1 PEDESTRIAN SIGNAL, 1 9"X12" PEDESTRIAN SIGN, AND 1 PUSHBUTTON. PROPOSED DESIGN APPLICATIONS THAT EXCEED ANY LOAD COMBINATIONS LISTED ABOVE AND/OR REQUIRE A POST TALLER THAN 10' SHOULD CONSIDER USING A TYPE III PEDESTAL TO MEET THE DESIGN REQUIREMENTS OR HAVE A STRUCTURAL EVALUATION PERFORMED. DO NOT EXCEED DESIGN LOADING WITHOUT APPROVAL.
- 4. DO NOT USE A FLANGE BASE WITH BREAKAWAY ANCHOR BOLTS ON A TYPE II PEDESTAL.
- 5. ALL ELECTRICAL CONDUCTORS INSIDE OF BREAKAWAY SUPPORTS SHOULD SHEAR OR BECOME DISCONNECTED AS CLOSE TO THE FOUNDATION BASE AS POSSIBLE DURING A KNOCKDOWN. REFER TO ELECTRICAL CONDUCTOR SHEAR DEVICE DETAIL. IF ALTERNATIVES ARE AVAILABLE, THEY CAN BE USED PER APPROVAL OF THE ENGINEER.
- 6. PROVIDE POLE AND BASE COLLAR ASSEMBLY.



SEE NOTE #6

1/4" SPECIAL WASHER

ANCHOR BOLT

TAIE C. H CAROLINA TRANSPORTATION JN OF HIGHWAYS STATE DIVISION OF RALEIGH NORTH **P** DEPT

R

FOR DRAWING A STANDARD PEDES DUTY NORMAL ROADWAY

SHEET 1 OF 1

1. CONSTRUCT PEDESTALS ON FHWA APPROVED BREAKAWAY BASES OR ANCHORS.

2. CONSTRUCT PEDESTAL FOUNDATIONS IN ACCORDANCE WITH STANDARD DRAWING 1743.04.

3. HEAVY DUTY PEDESTALS ARE DESIGNED FOR USE IN ALL WIND ZONE REGIONS. PEDESTAL BASE REACTIONS, USING 41/2" OD SCHEDULE 120 GALVANIZED STEEL

AND A 48" X 48" SIGN. DO NOT EXCEED DESIGN LOADING WITHOUT APPROVAL.

BECOME DISCONNECTED AS CLOSE TO THE FOUNDATION BASE AS POSSIBLE DURING A KNOCKDOWN. REFER TO ELECTRICAL CONDUCTOR SHEAR DEVICE DETAIL. IF ALTERNATIVES ARE AVAILABLE, THEY CAN BE USED PER APPROVAL OF THE

FOR STANDARD DRAWING ALS PEDES ROADWAY

TYPE

DUTY

HEAVY

SPORTATION HIGHWAYS

STATE

NORTH

DEPT

DIVISION OF RALEIGH,

SHEET 1 OF 1

SHEET 1 OF 1 1743.04

0

STANDARD

1. CAST FOUNDATION AGAINST UNDISTURBED SOIL WHEREVER CONDITIONS PERMIT. IN UNSTABLE SOIL, CAST-IN-PLACE TUBE FORMS ARE ALLOWED WITH APPROVAL.

2. COMPLY WITH APPLICABLE PROVISIONS OF SECTION 825 FOR CONCRETE CONSTRUCTION.

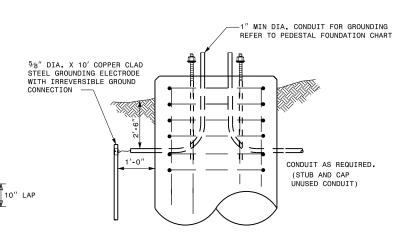
- 3. USE CLASS "A" CONCRETE THAT MEETS THE REQUIREMENTS OF SECTION 1000 WITH A COMPRESSION STRENGTH AT 28 DAYS OF F'c= 3000 PSI (MIN.).
- 4. USE ASTM GRADE 60 DEFORMED BARS FOR ALL REINFORCING STEEL.
- 5. GRADE IS ASSUMED TO BE (8H:1V) OR FLATTER. FOUNDATION SIZE AND DEPTHS ARE BASED ON THE FOLLOWING SOIL DESIGN PARAMETERS:
 - A. SANDY TYPE SOIL

NOTES:

- B. NO GROUND WATER WITHIN 5'-0" OF SURFACE ELEVATION
- C. WIND SPEED NOT TO EXCEED 140 MPH

IF ACTUAL CONDITIONS VARY SUBSTANTIALLY FROM THOSE ASSUMED, THE FOUNDATION DEPTH MAY BE ADJUSTED. IN THIS CASE, CONTACT THE ENGINEER.

- 6. MAINTAIN AT LEAST 3" COVER ON ALL REINFORCEMENT.
- 7. ORIENT CONDUIT AS REQUIRED BY THE DESIGN OR AS DICTATED BY FIELD CONDITIONS.
- 8. USE ADHESIVE ANCHOR FOR THREADED COUPLING INSERT. FOR TYPE I MINIMUM DEPTH NECESSARY IS 0'-41/2" AND FOR TYPE II MINIMUM DEPTH NECESSARY IS 0'-65/8". FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.



GROUNDING & CONDUIT DETAIL

CLOSED HOOPS

1/2" PREMOLDED

-STDEWALK

CHAMEER

3" (TYP)

S 1'-0"

PEDESTAL FOUNDATION DETAILS FOR SIDEWALK

BREAKAWAY ANCHOR MEMBER (TYP)

3"(TYP

DIAMETER "A"

TYPES I & II ONLY

SECTION A-A

(SEE NOTE 8)

EXPANSION JOINT FILLER

FINISHED GRADE

PEDESTAL FOUNDATION - PLAN VIEW

ANCHOR BOLT (TYP)

BOLT CIRCLE

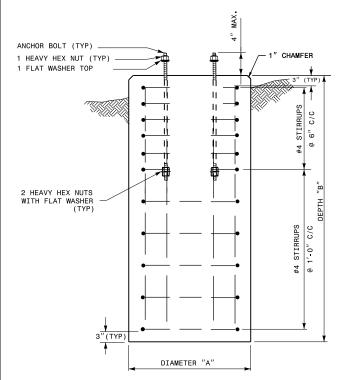
CONDUIT AS REQUIRED

CLEAR (TYP)

#4 STIRRUPS

#8 VERTICAL REINFORCING (V BARS)

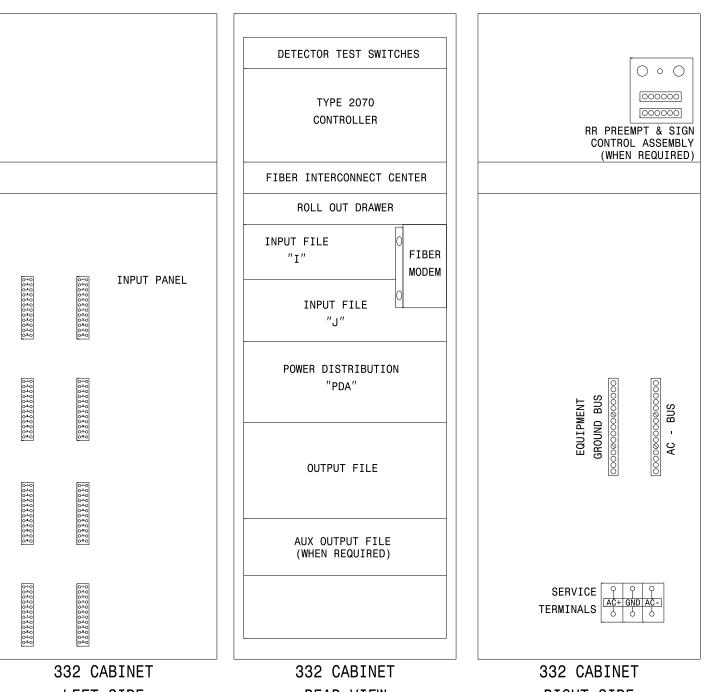
@ EQUAL SPACING



TYPES I, II & III SECTION A-A

	PEDESTAL FOUND	OITAC	N T	YPE /	AND S	SIZE	
			SIZE		ANCHOR	BOLT	INSTALL
TYPE	PEDESTAL DESCRIPTION	DIAMETER "A" FT	DEPTH "B" FT	CONCRETE VOLUME CY	DIAMETER (MIN.) IN	LENGTH FT-IN	GROUNDING SYSTEM (YES/NO)
I	PEDESTRIAN PUSHBUTTON	2'-0"	3'-6"	.41	1/2	1'-6"	NO
ΙΙ	NORMAL - DUTY	2'-0"	5'-0"	.58	3⁄4	2'-0"	YES
III	HEAVY-DUTY	2'-6"	7'-0"	1.27	1	4'-0"	YES

			R	EIN	REINFORCING STEEL SCHEDULE														
	V-BAR STIRRUP																		
						QI	UANTITY												
TYPE	SIZE #	QTY	LENGTH	WEIGHT LBS	SIZE #	VERTICAL ON 6" CENTERS	ON 12"	TOTAL	LENGTH	DIAMETER "C" FT	OVERLAP MIN.	WEIGHT LBS	TOTAL STEEL WEIGHT LBS						
I	8	6	3'-0"	56	4	0	4	4	5'-7"	1'-6"	0'-10"	15	71						
ΙΙ	8	6	4'-6"	86	4	5	3	8	5'-7"	1'-6"	0'-10"	30	116						
III	8	6	6'-6"	122	4	7	4	11	7'-2"	2'-0"	0'-10"	53	175						



NOTE

PROVIDE 2" SPACE BETWEEN CONTROLLER AND ROLL OUT DRAWER TO ACCOMMODATE FIBER INTERCONNECT CENTER.

LEFT SIDE REAR VIEW REAR VIEW

RIGHT SIDE REAR VIEW

CABINETS STANDARD DRAWING FOR AND CONTROLLERS ROADWAY

STATE OF NORTH CAROLINA
T. OF TRANSPORTATION
T. TO TRANSPORTATION
T. TO TRANSPORTATION
N. C.

DEPT

DIVISION OF RALEIGH,

CONTROLLER

(BASEMOUNT) 2070 LAYOUT MITH 332 COMPONENT CABINET MODEL CABINET 170

SHEET 1 OF 2 1751.01

CABINETS LAYOUT AND

CONTROLLERS CABINET

CABINET MODEL

170

SHEET 2 OF 2 1751.01

STANDARD DRAWING FOR ROADWAY

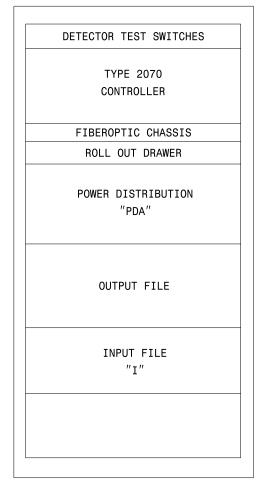
COMPONENT

RR PREEMPT & SIGN CONTROL ASSEMBLY (WHEN REQUIRED) $\bigcirc \circ \bigcirc$ 000000 EQUIPMENT GROUND BUS - BUS

SERVICE TERMINALS

AC

336S CABINET RIGHT SIDE REAR VIEW



336S CABINET FRONT VIEW

336S CABINET REAR VIEW

DETECTOR TEST SWITCHES

TYPE 2070

CONTROLLER

FIBER INTERCONNECT CENTER

ROLL OUT DRAWER

OUTPUT FILE

FOLD DOWN INPUT PANEL

FIBER

MODEM

88888888888

14444444444

POWER DISTRIBUTION

"PDA"

88888888888

1444444444

NOTE

PROVIDE 2" SPACE BETWEEN CONTROLLER AND ROLL OUT DRAWER TO ACCOMMODATE FIBER INTERCONNECT CENTER.

NORTH CAROLINA
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. DEPT

SYSTEMS CABINETS STANDARD DRAWING FOR POWER AND AUXILIARY NEMA TS-2 AND CONTROLLERS ROADWAY GROUND, POWER,

SHEET 1 OF 1