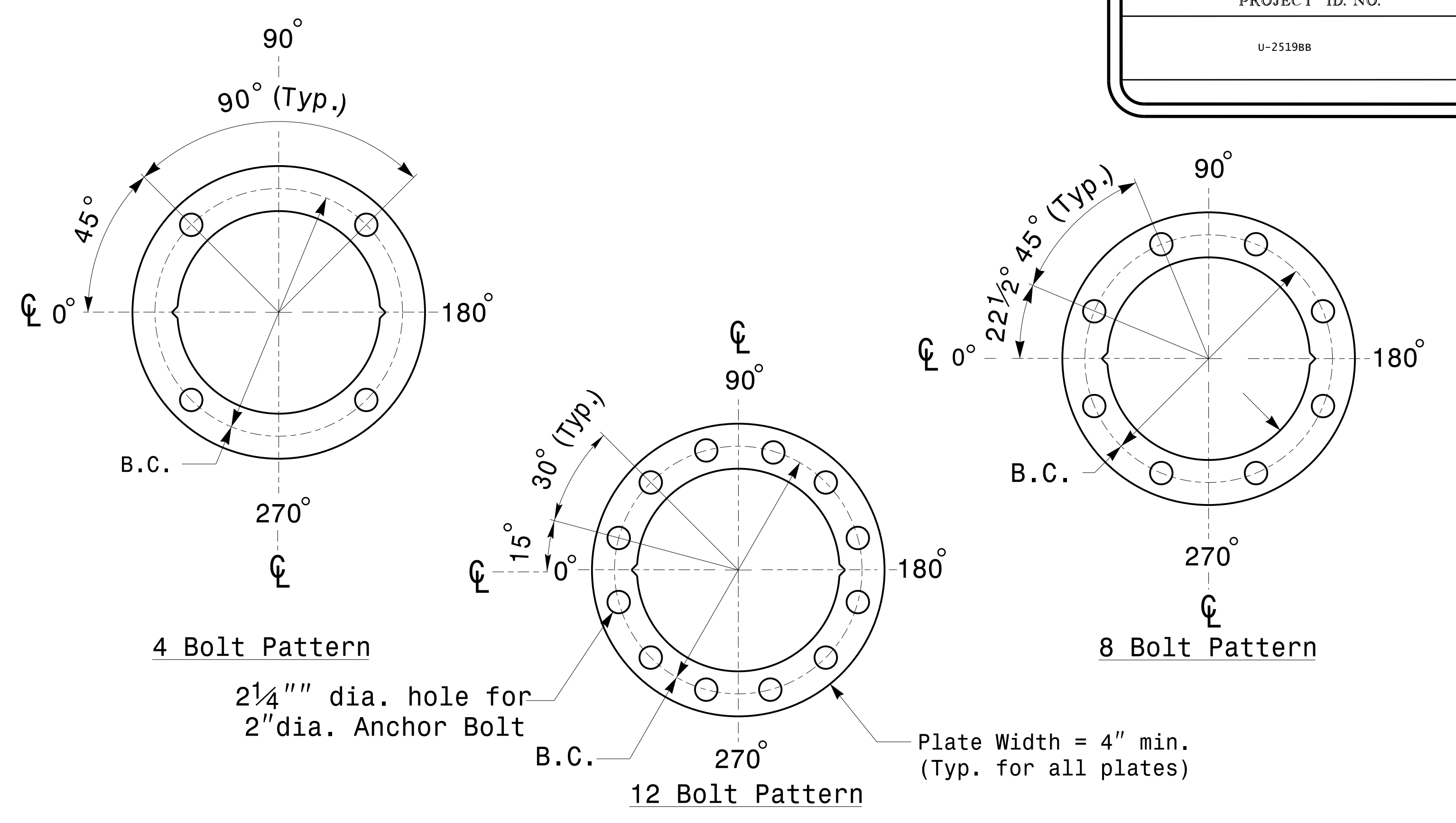
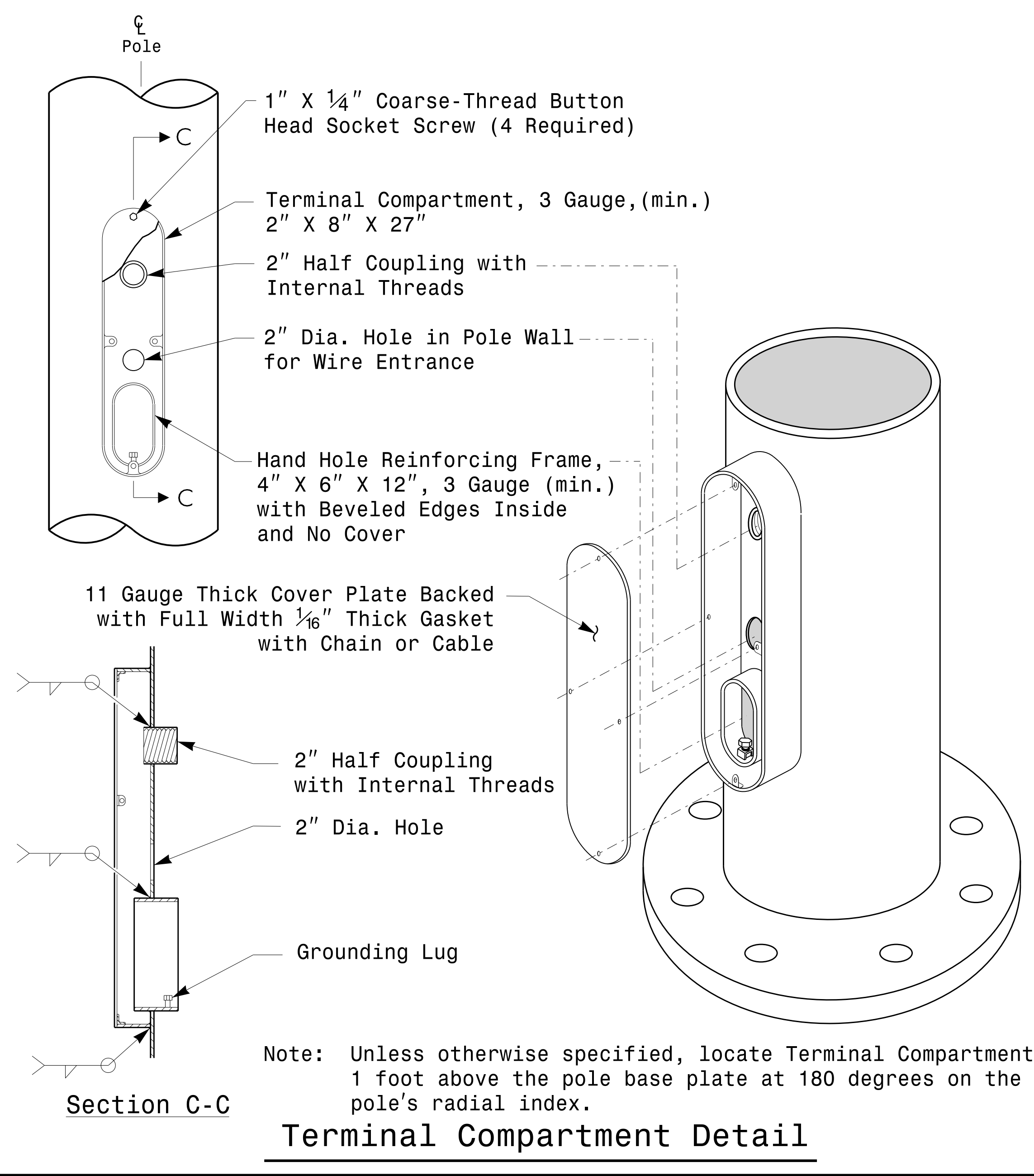


**This electronic collection of documents is provided  
for the convenience of the user  
and is Not a Certified Document –**

**The documents contained herein were originally issued  
and sealed by the individuals whose names and license  
numbers appear on each page, on the dates appearing  
with their signature on that page.**

**This file or an individual page  
shall not be considered a certified document.**



Construct Templates and Plates from 1/4" min. thick Steel. Galvanizing is not required.

Shaft I.D. Tag  
(Provide on Shaft of Strain Poles and Mast Arm Poles Shaft)

Notes:

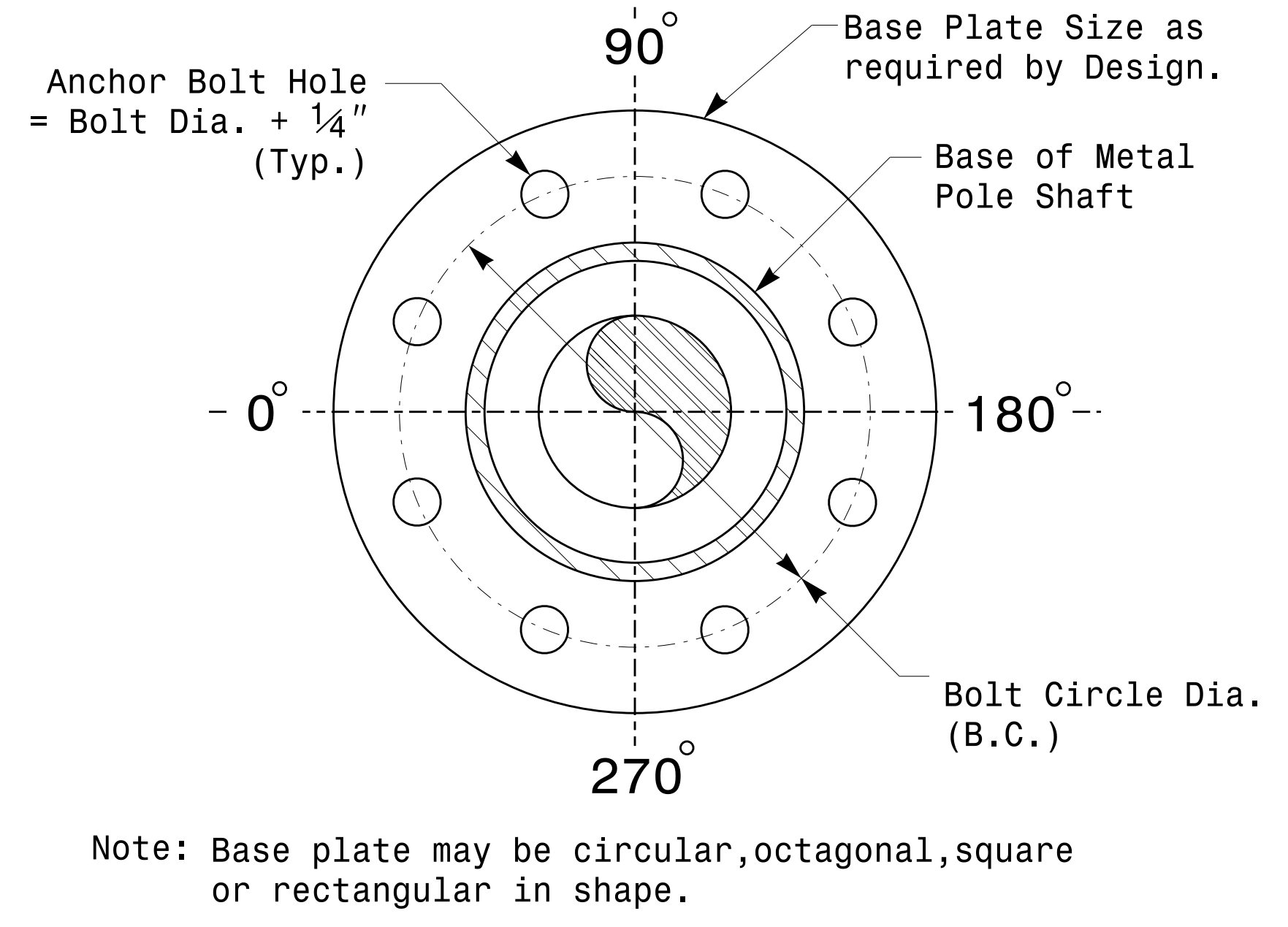
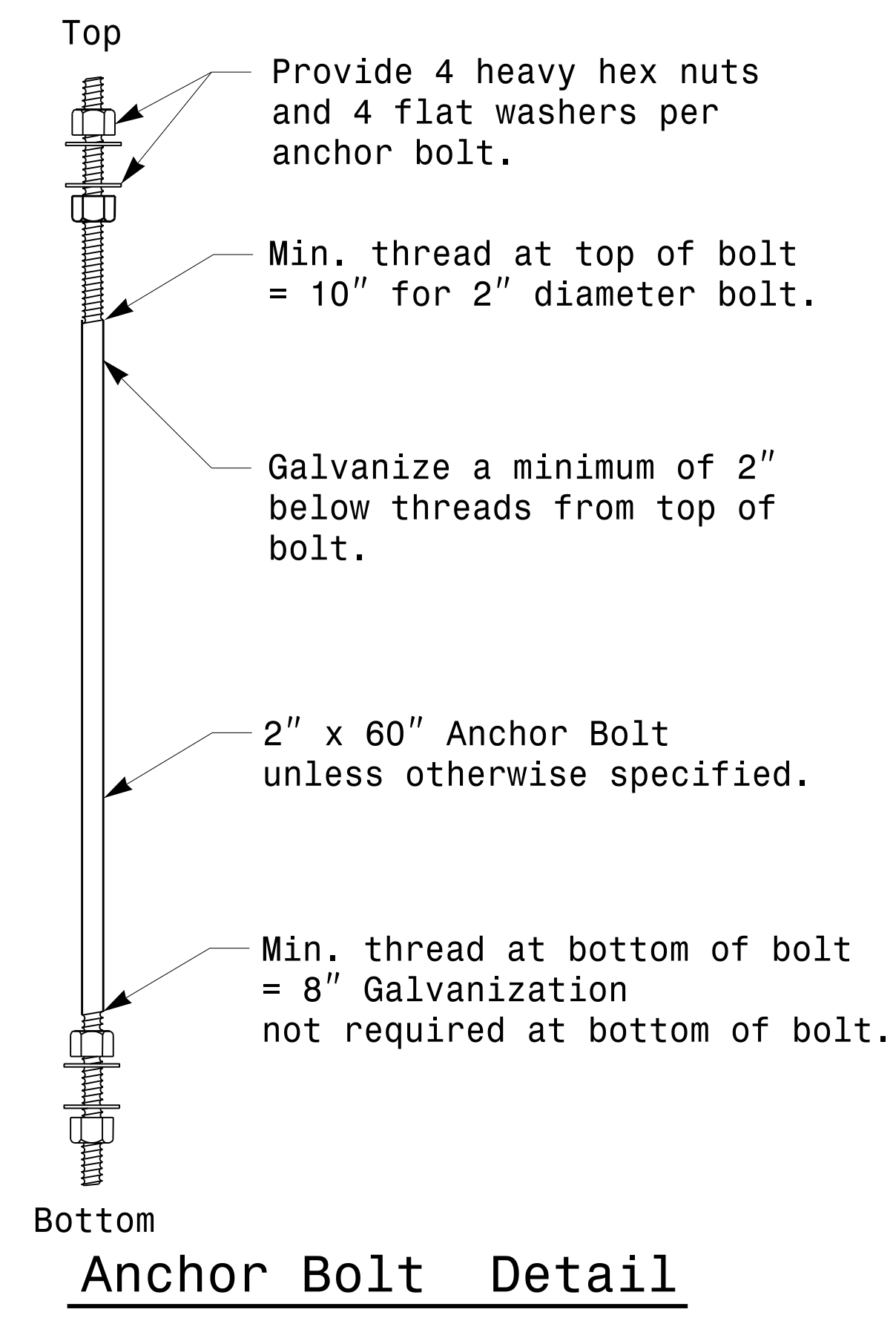
- 1) D= Diameter, T= Thickness, L= Length, Y= Yield Strength
- 2) A.B. = Anchor Bolt
- 3) B.C. = Bolt Circle of Anchor Bolts
- 4) If Custom Design, use "NCDOT STANDARD" line for Signal Inv. Number and pole I.D. number
- 5) See drawing M3 and M4 for mounting positions of I.D. tags.

Arm I.D. Tag  
(Provide on each section of a multi-section mast arm.)

Notes:

- 1) D= Diameter, T= Thickness, L= Length, Y= Yield Strength
- 2) A.B. = Anchor Bolt
- 3) B.C. = Bolt Circle of Anchor Bolts
- 4) If Custom Design, use "NCDOT STANDARD" line for Signal Inv. Number and pole I.D. number
- 5) See drawing M3 and M4 for mounting positions of I.D. tags.

**Identification Tag Details**



Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Fabrication Details For All Metal Poles	
PLAN DATE: OCTOBER 2017	DESIGNED BY: C.F. ANDREWS
PREPARED BY: N. BITTING	REVIEWED BY: D.C. SARKAR
REVISIONS	INIT. DATE

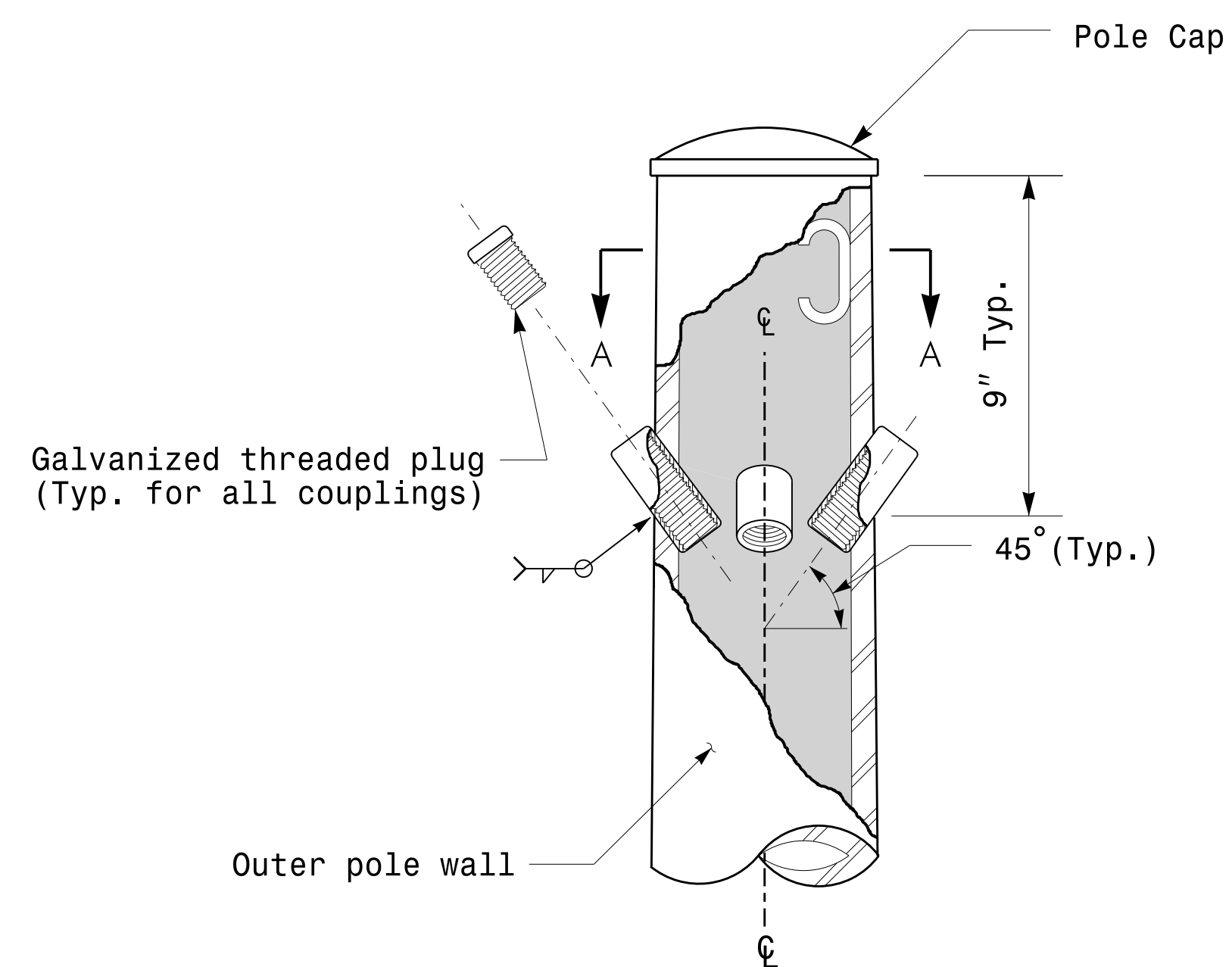
SEAL

DocuSign by: D.C. Sarkar  
4486328 SIGNATURE

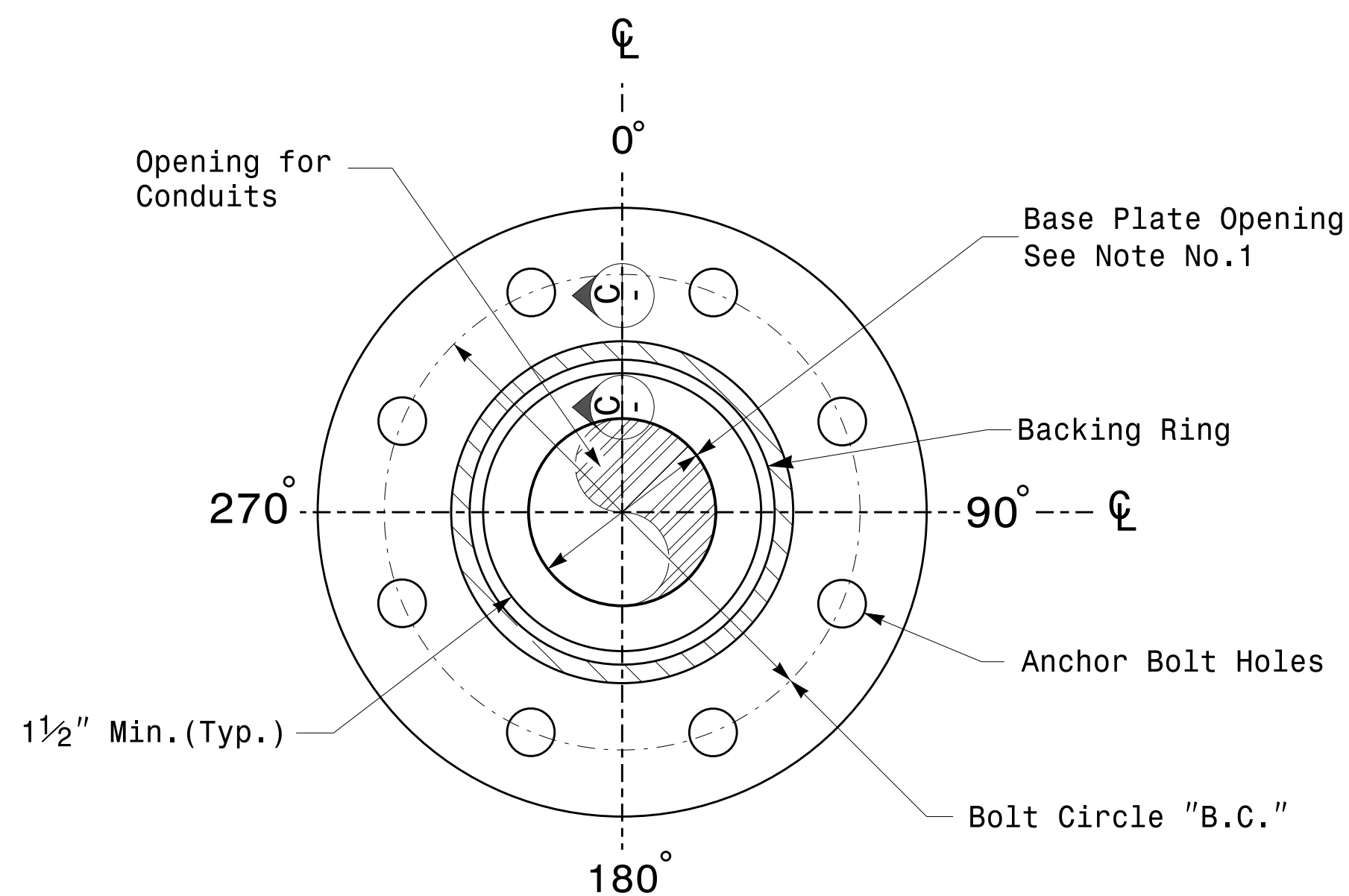
10/11/2017  
DATE

11-001-2017-08430  
136504115 Signal&Sigs:gncl Design Section Eastern RegionM1 Sheets20162014 Sig.M2 Std. Fabrication Detail-1s-4-11 Poles.dgn  
P21

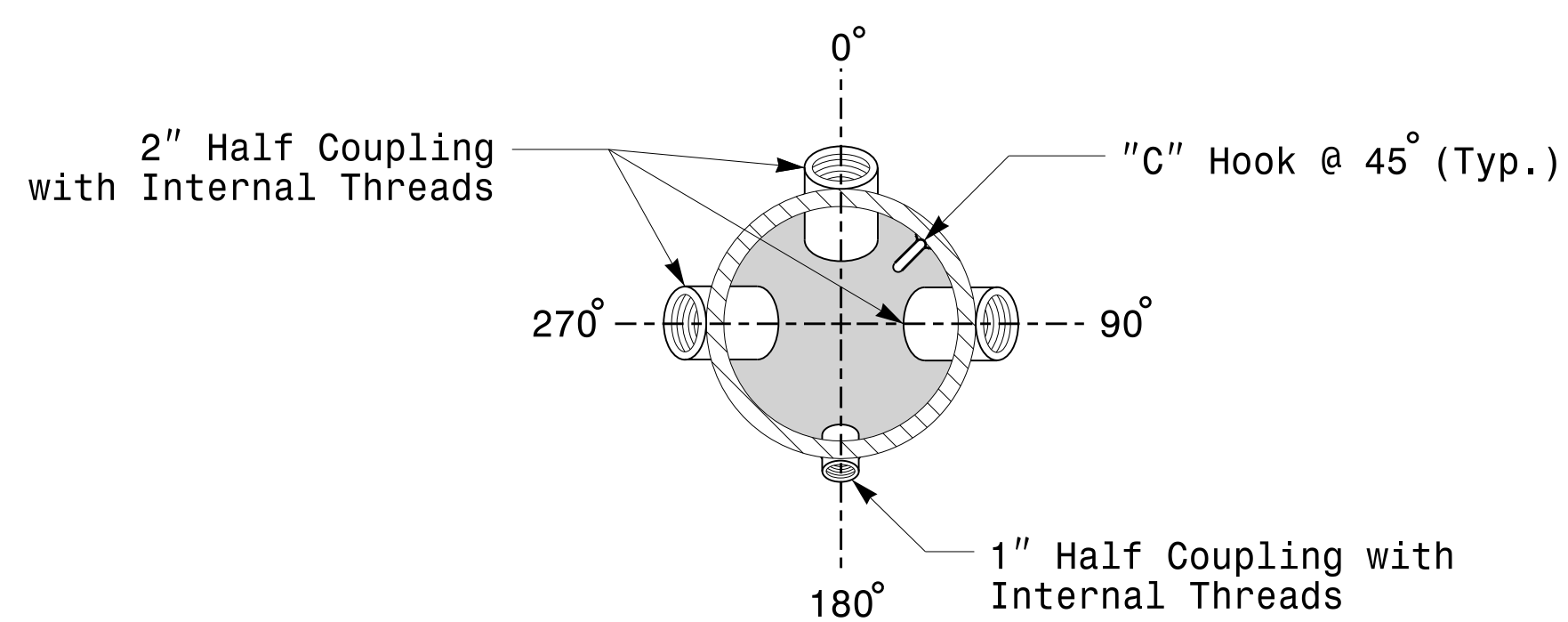
Note:  
 1. Opening in pole base plate shall be equal to pole base inside diameter minus 3 1/2" but shall not be less than 8 1/2".



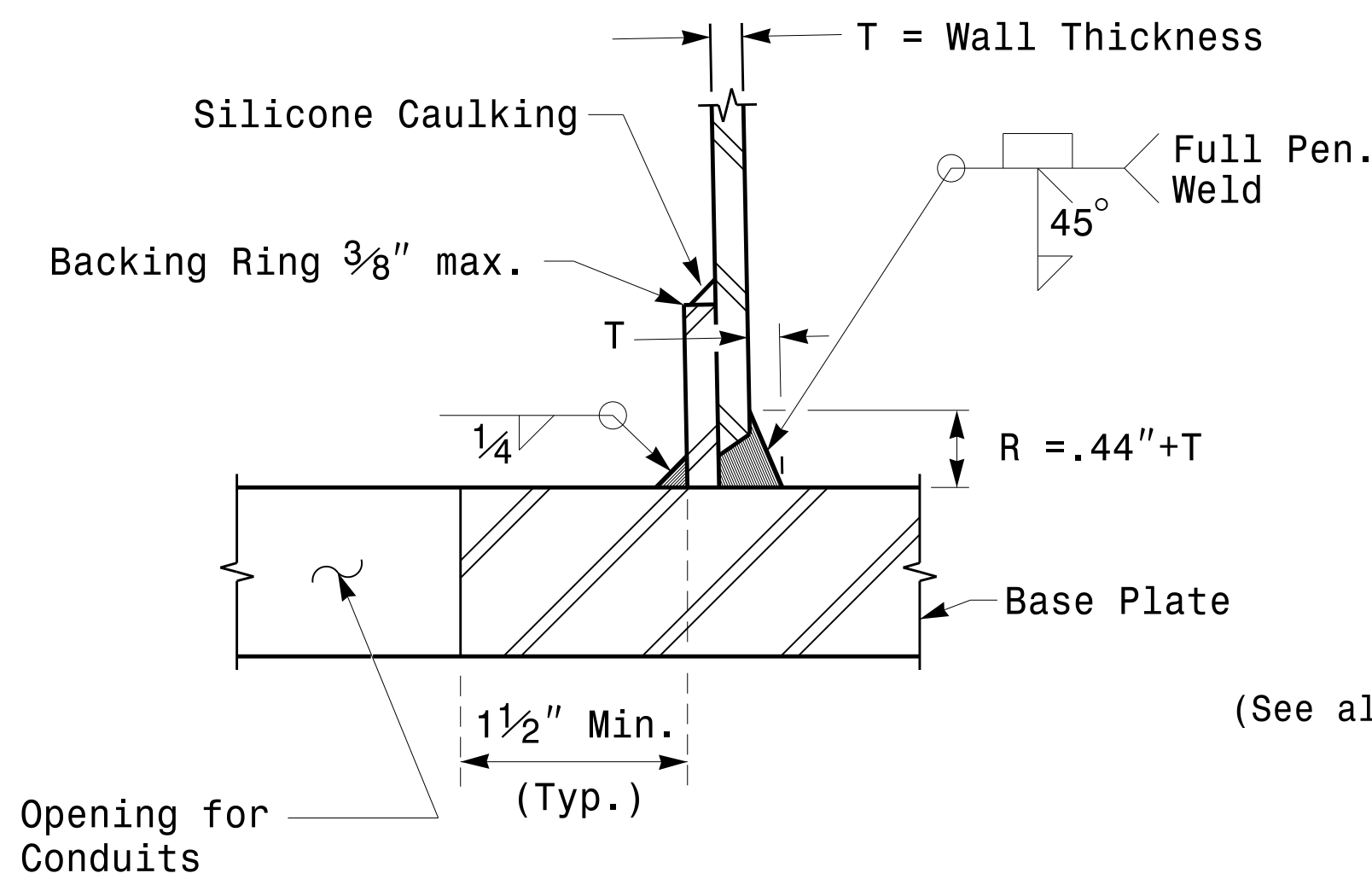
Cable Entrances at Top of Pole



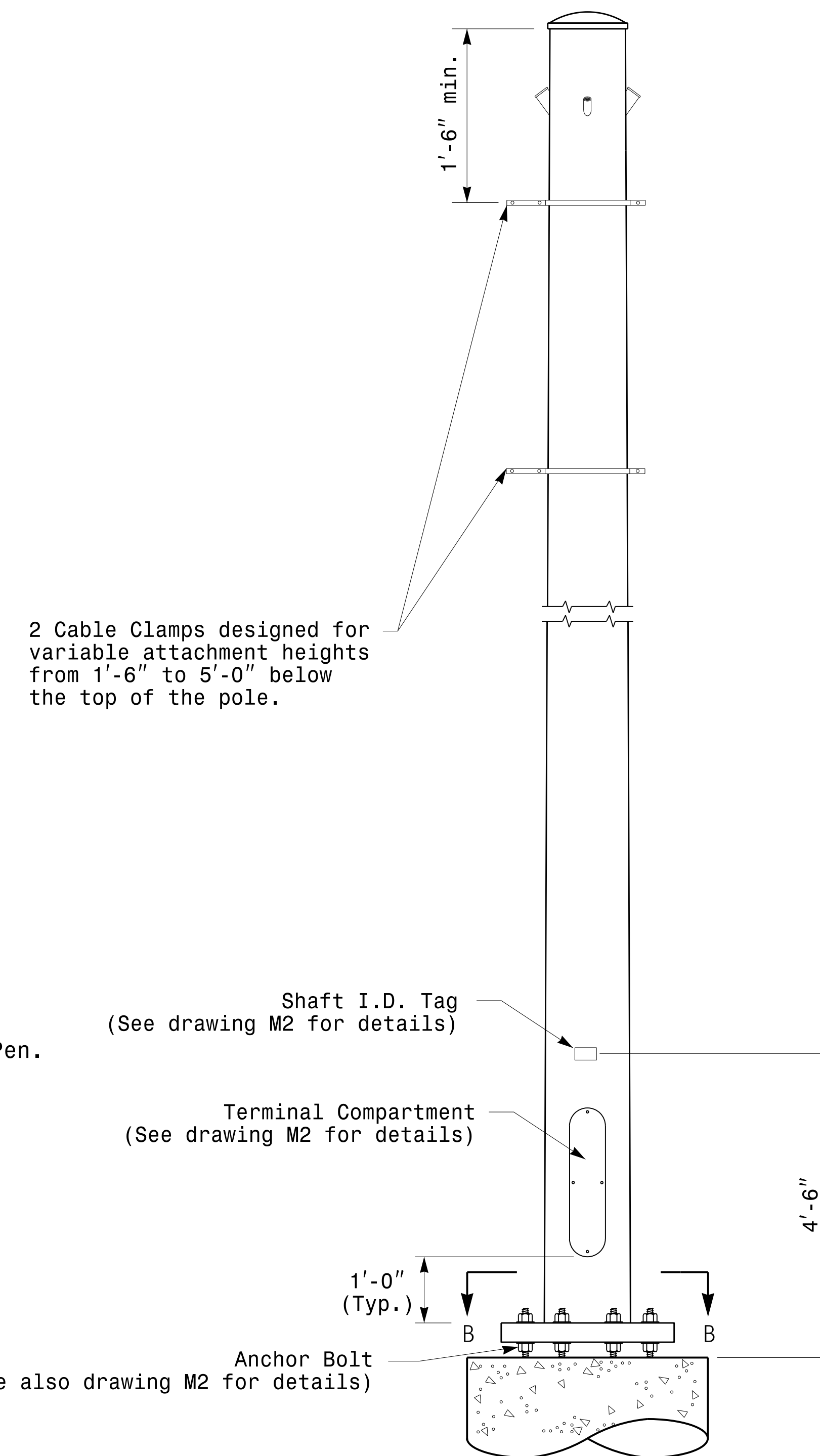
Section B-B Pole Base Plate Details (8 and 12 Bolt Pattern)



Section A-A Radial Orientation for Factory Installed Accessories at Top of Pole



Section C-C Full-Penetration Groove Weld Detail (Pole Attachment to Base Plate)



Monotube Strain Pole

Prepared in the Offices of:  
  
 750 N. Greenleaf Pkwy, Garner, NC 27529

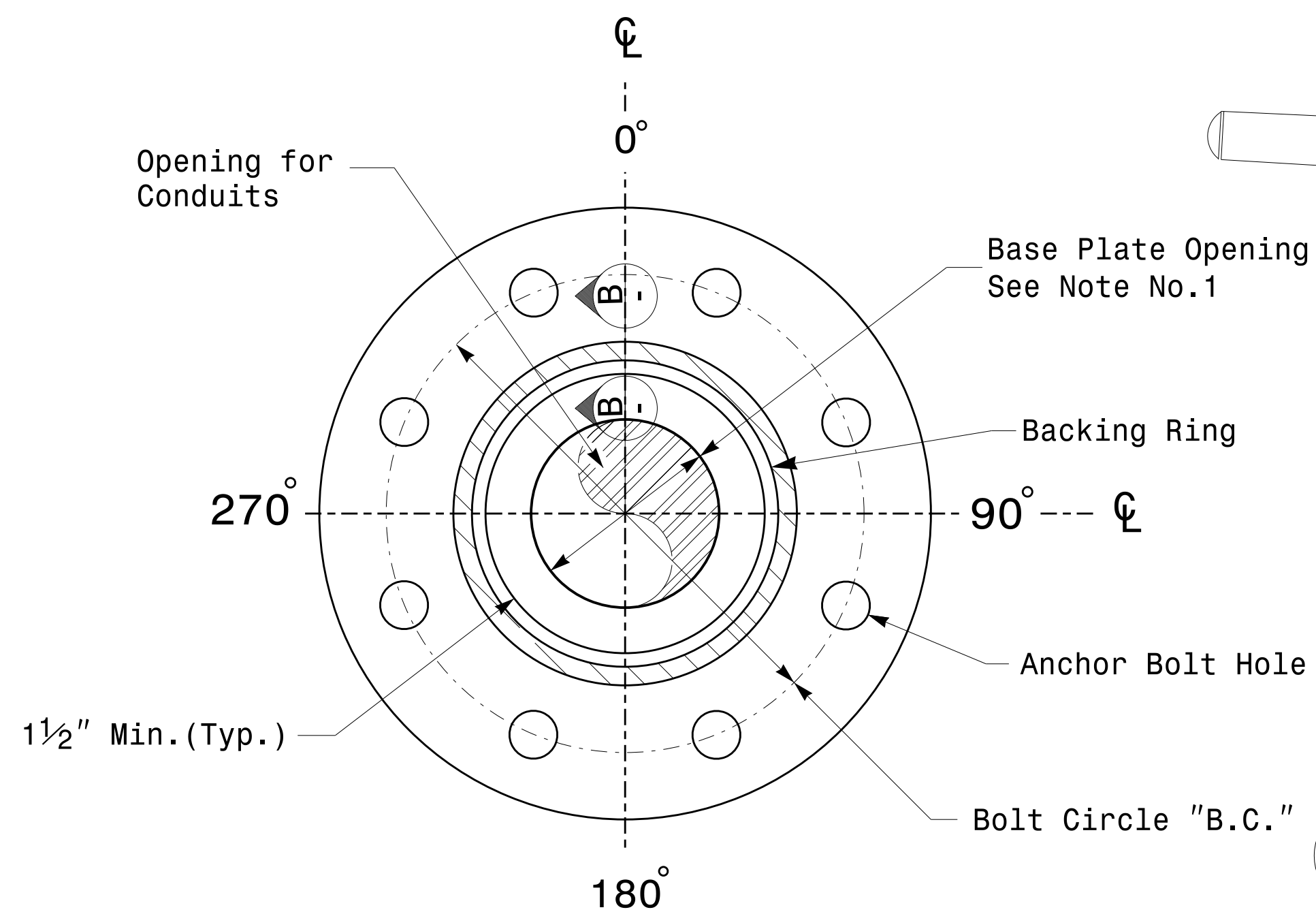
Typical Fabrication Details For Strain Poles			
PLAN DATE:	OCTOBER 2017	DESIGNED BY:	K.C. DURIGON
PREPARED BY:	N. BITTING	REVIEWED BY:	D.C. SARKAR
SCALE	0 NA	REVISIONS	INIT. DATE
	NONE		

SEAL  
  
 DocuSigned by:  
 Debesh C. Sarkar  
 10/11/2017  
 DATE

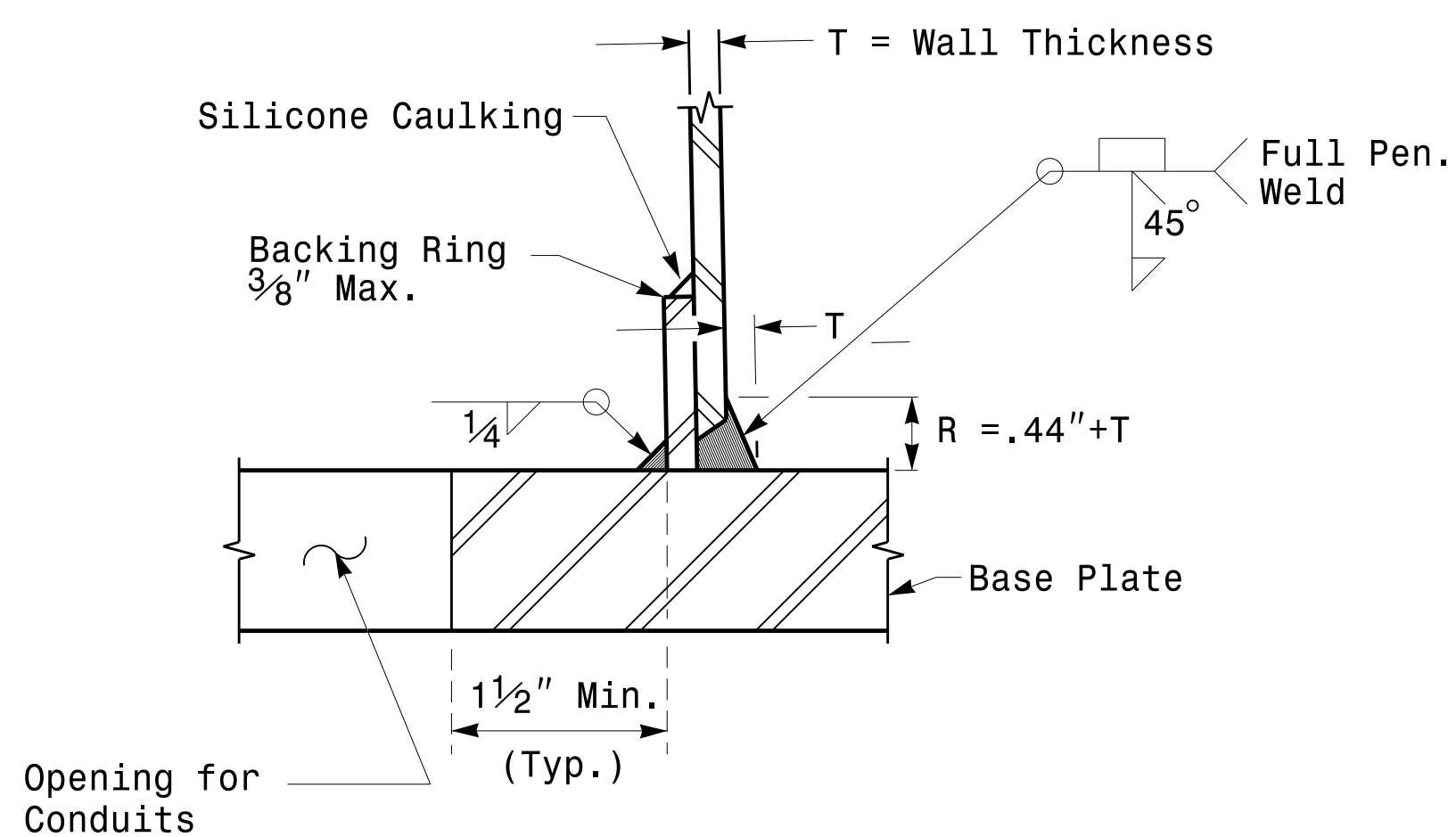
11-OCT-2017 09:25 136504115 Signal.svk:gnrc Design Section\Facsim Region\MT Sheets\2016\2014 Sig.M3 Std. Fabrication Details-Strain Poles.dgn

Fabrication Details - Strain Poles

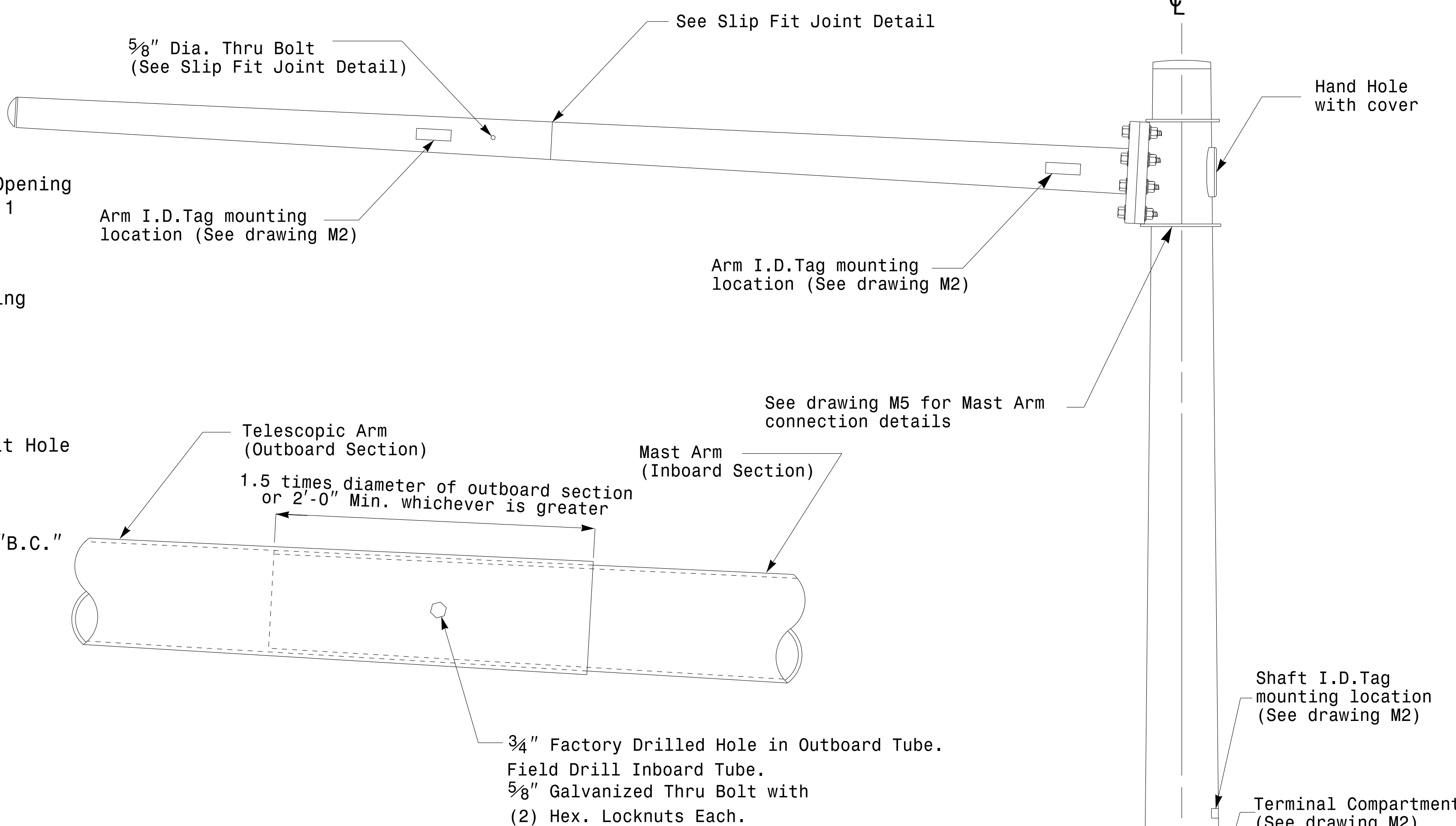
Note:  
 1. Opening in pole base plate shall be equal to pole base inside diameter minus 3 1/2" but shall not be less than 8 1/2".



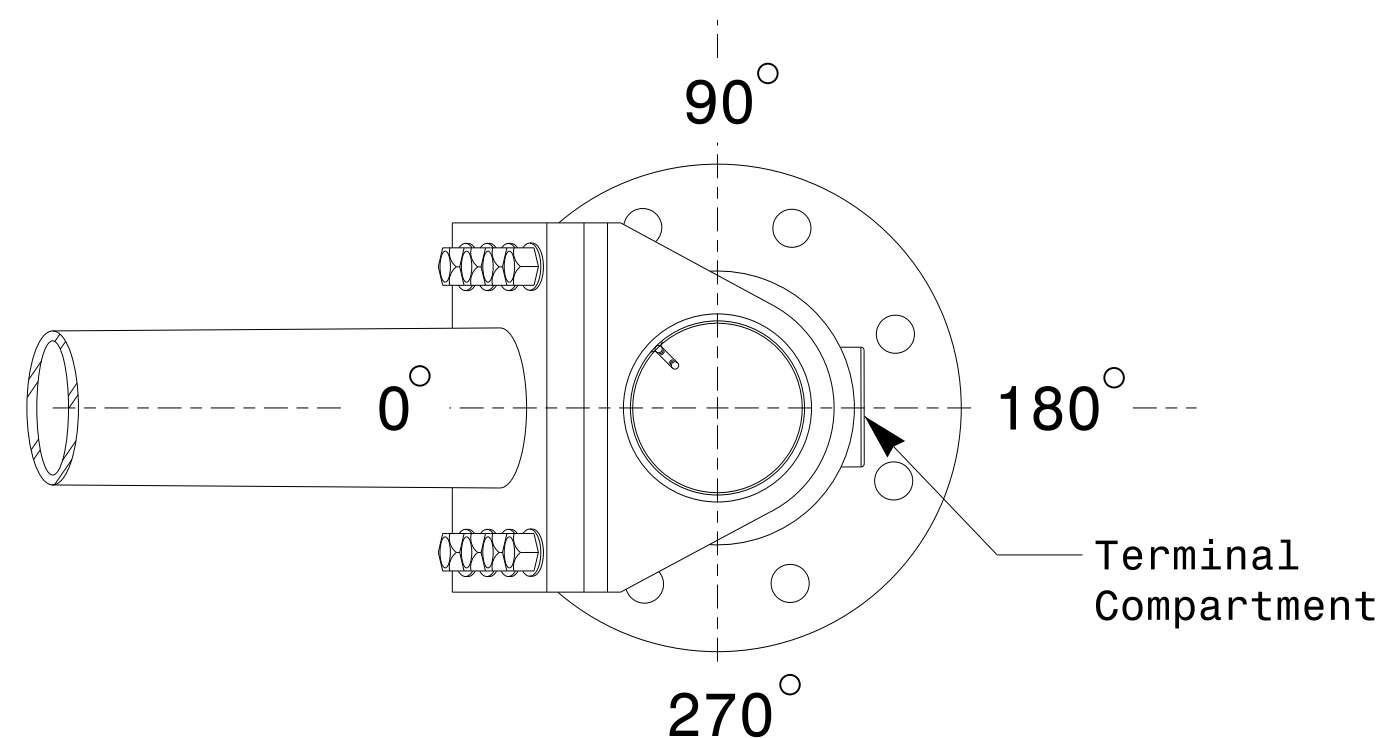
Section A-A  
 Pole Base Plate Details



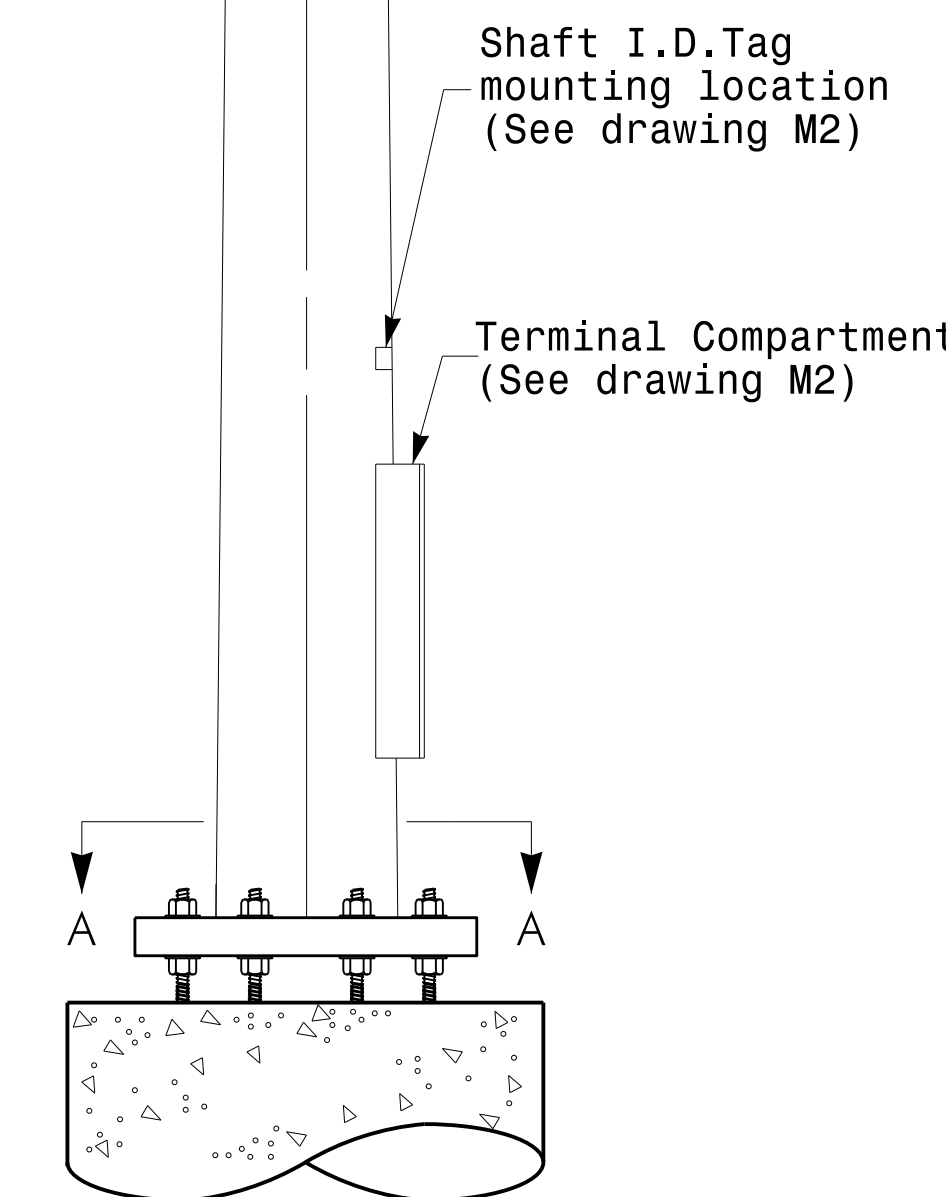
Section B-B  
 (Pole Attachment to Base Plate)  
 Full-Penetration Groove Weld Detail



Slip Fit Joint Detail for Mast Arm



Mast Arm Radial Orientation



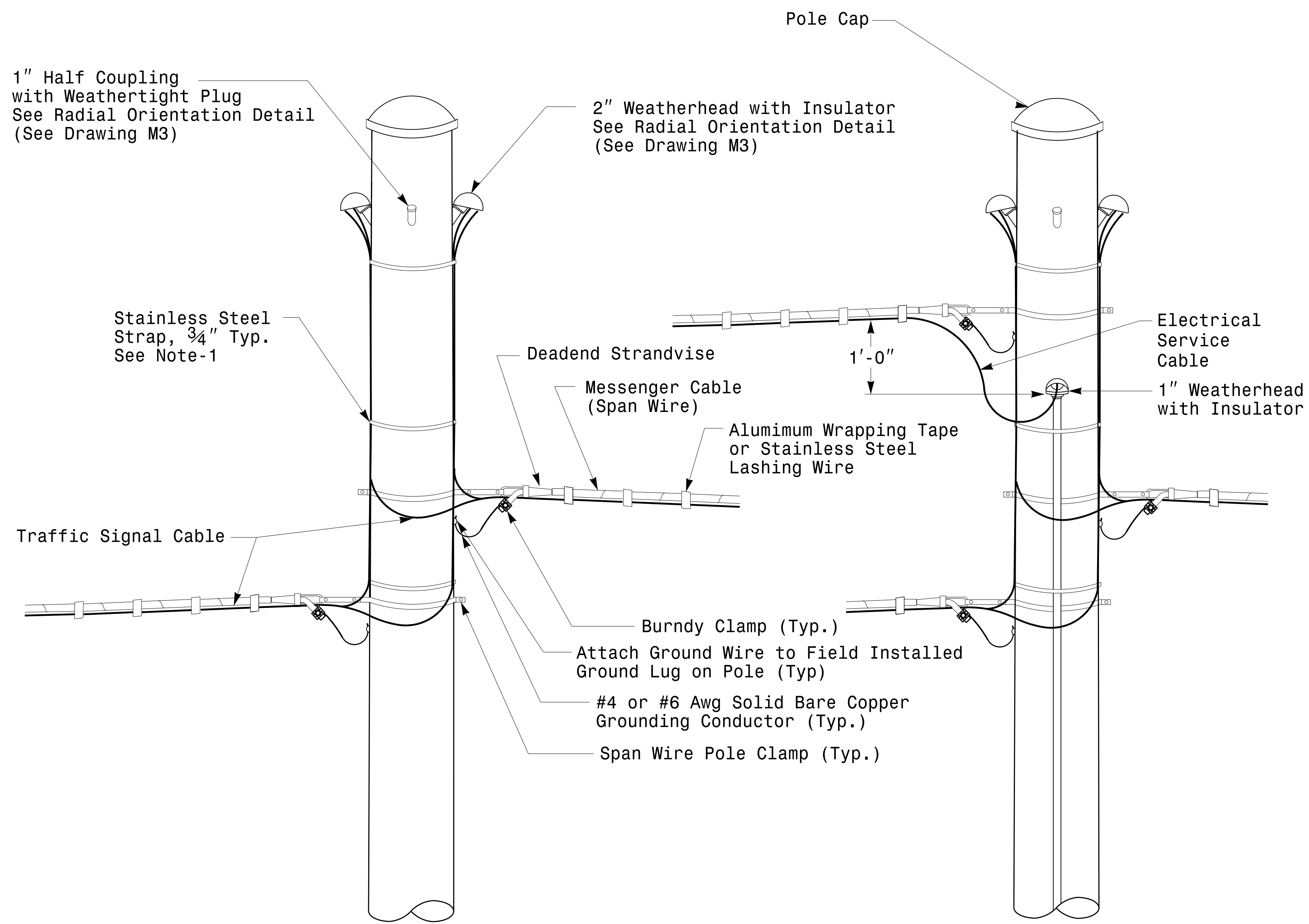
Mast Arm Pole

	<b>Typical Fabrication Details For Mast Arm Poles</b>		SEAL 
	PLAN DATE: OCTOBER 2017 PREPARED BY: N. BITTING	DESIGNED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR	
SCALE: 0 NA NONE	DocuSigned by: <i>Dinesh C. Sarkar</i> 10/11/2017		DATE

Fabrication Details - Mast Arm Poles

11-OCT-2017 08:33 136504115 SignalDesign Section Design Section Eastern Region\m4 Sheets\2016\2014 Sig.M4 Std. Fabrication Detail-Mast Arm Poles.dgn

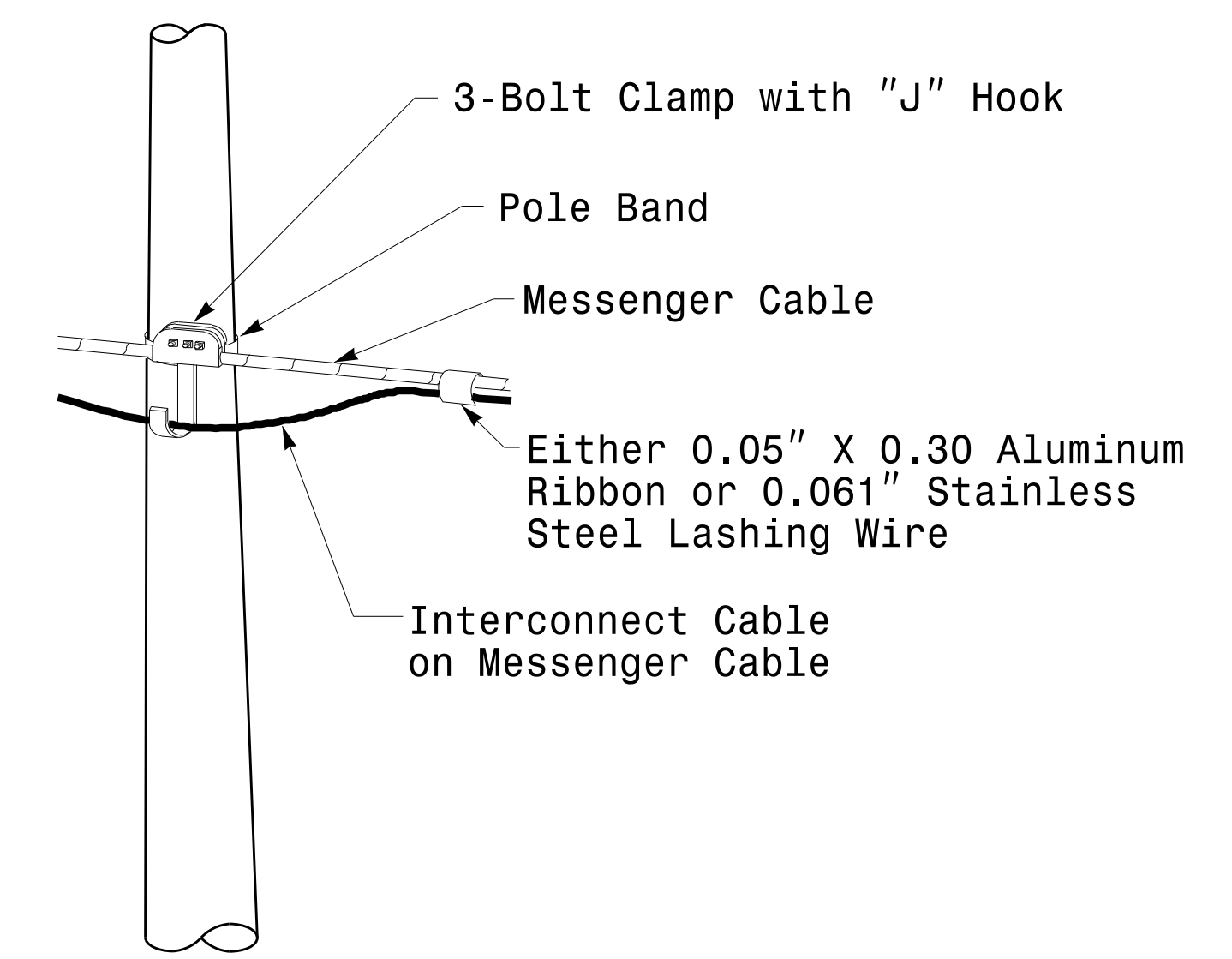




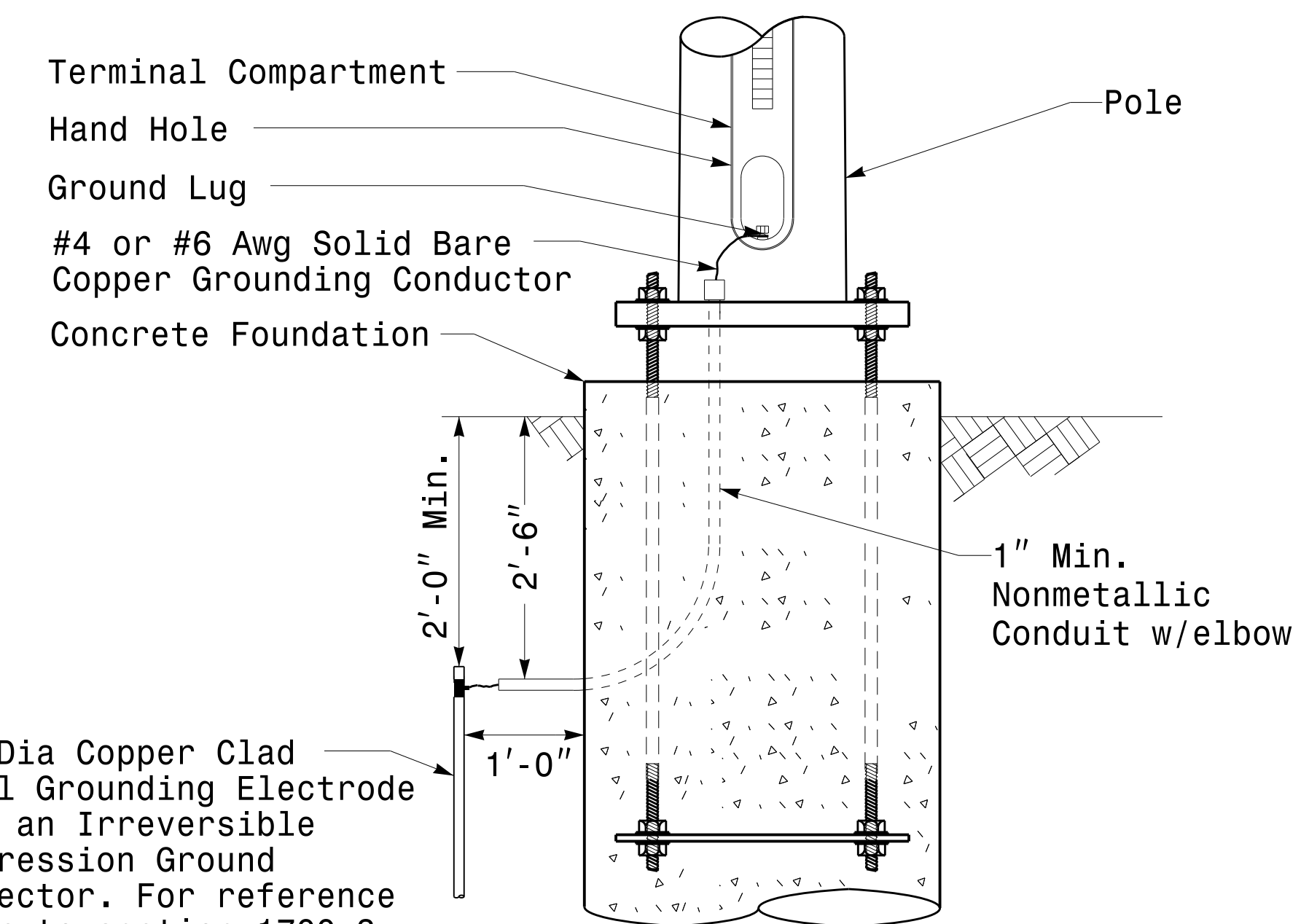
**Strain Pole Attachments**

**NOTE:**

1. Strap all signal cables to the side of the pole with 3/4" stainless steel straps when the distance between the spanwire attachment clamp and the weatherheads exceeds 3'-0".
2. Provide minimum two spanwire pole clamps per pole.
3. It is prohibited to attach two span wires at one pole clamp.
4. For general requirements refer to NCDOT Standard Specifications for Roadway and Structures, January 2018.



**Attachment of Cable to Intermediate Metal Pole**



5/8" Dia Copper Clad Steel Grounding Electrode with an Irreversible Compression Ground Connector. For reference refer to section 1700-3 K and L for electrical grounding and bonding requirements, See Note 4.

**Metal Pole Grounding Detail For Strain Pole and Mast Arm**

	<b>Typical Fabrication Details For Strain Pole Attachments</b>		
	PLAN DATE: OCTOBER 2017 DESIGNED BY: C.F. ANDREWS PREPARED BY: N. BITTING REVIEWED BY: D.C. SARKAR	REVISIONS INIT. DATE	

11-OCT-2017 08:36 136504115 StrainPole.dgn Design Section Eastern Region\m\ Sheets\2016\2014 Sig.M6 Std. Fabrication Details-Strain Poles.dgn



# SOIL CONDITION

PROJECT ID. NO. U-251988	SHEET NO. Sig.M8
-----------------------------	---------------------

		STANDARD STRAIN POLES					STANDARD FOUNDATIONS 48" Diameter Drilled Pier Length (L) - Feet							Reinforcement				
		Case No.	Pole Height (Ft.)	Base Plate BC (In.)	Reactions at the Pole Base			Clay				Sand			Longitudinal		Stirrups	
					Axial (kip)	Shear (kip)	Moment (ft-kip)	Medium N-Value 4-8	Stiff N-Value 9-15	Very Stiff N-Value 16-30	Hard N-Value >30	Loose N-Value 4-10	Medium N-Value 11-30	Dense N-Value >30	Bar Size (#)	Quantity (ea.)	Bar Size (#)	Spacing (in.)
WIND ZONE 1	LIGHT	S26L3	26	25	2	11	270	19	13	10	8	17	14.5	12.5	8	12	4	12
		S30L3	30	25	2	11	300	19.5	13.5	10	8	17.5	15	13	8	14	4	12
		S35L3	35	25	3	11	320	20	13.5	10.5	8	17.5	15	13	8	14	4	12
	HEAVY	S30H3	30	29	3	16	450	24.5	16	12	9	21	17.5	15	8	16	4	6
		S35H3	35	29	4	16	515	26	17	12.5	9.5	22	18.5	16	8	16	4	6
WIND ZONE 2	LIGHT	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
		S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
		S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	HEAVY	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
		S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
WIND ZONE 3	LIGHT	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
		S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
		S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	HEAVY	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
		S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
WIND ZONE 4	LIGHT	S26L1	26	22	2	8	190	16	11.5	8.5	8	15	12.5	11	8	12	4	12
		S30L1	30	22	2	8	205	16.5	11.5	9	8	15	13	11.5	8	12	4	12
		S35L1	35	22	3	8	230	17	12	9	8	15.5	13.5	11.5	8	12	4	12
	HEAVY	S30H1	30	25	3	12	320	20.5	13.5	10.5	8	18	15	13.5	8	16	4	6
		S35H1	35	25	4	12	350	21	14	10.5	8.5	18.5	15.5	13.5	8	16	4	6
WIND ZONE 5	LIGHT	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
		S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
		S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	HEAVY	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
		S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6

**General Notes:**

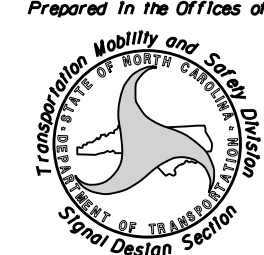

1. Values shown in the "Reactions at the Pole Base" column represent the minimum acceptable capacity allowed for design using a design CSR of 1.00.
2. Use chairs and spacers to maintain proper clearance.
3. For foundation, always use air-entrain concrete mix.

**Foundation Selection:**

1. Perform a standard penetration test at each proposed foundation site to determine "N" value.
2. Select the appropriate wind zone from M 1 drawing.
3. Select the soil type (Clay or Sand) that best describes the soil characteristics.
4. Get the appropriate standard pole case number from the plans or from the Engineer.
5. Select the appropriate column under "Standard Foundations" based on soil type and "N" value. Select the appropriate row based on the pole load case.
6. The foundation depth is the value shown in the "Standard Foundations" category where the column and the row intersect.
7. Use Construction Procedures and Design Methods prescribed by FHWA-NHI-10-016 for Reference Drilled Shafts.

**Standard Strain Pole Foundation-All Soil Condition**

48" Dia. Foundations Concrete Volume (cubic yards) = (0.465) x Drilled Pier Length

	<p><b>Standard Strain Pole Foundation for All Soil Conditions</b></p> <p>PLAN DATE: OCTOBER 2017    DESIGNED BY: C.B. COGDILL                  PREPARED BY: N. BITTING    REVIEWED BY: D.C. SARKAR</p>									
SCALE: 0 NA NONE	REVISIONS: <table border="1" style="font-size: small;"> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>7/12/2015</td> <td>N.B.</td> <td>Changed "Foundation Depth" to "Drilled Pier Length" in Conc. Egn.</td> </tr> </table>	NO.	DATE	INIT.	DESCRIPTION	1	7/12/2015	N.B.	Changed "Foundation Depth" to "Drilled Pier Length" in Conc. Egn.	Documented by: <i>D. C. SARKAR</i> DATE: 10/11/2017
NO.	DATE	INIT.	DESCRIPTION							
1	7/12/2015	N.B.	Changed "Foundation Depth" to "Drilled Pier Length" in Conc. Egn.							

11-007-2017-08-10  
S:\11242017\Sig.M8\15-Sig.M8-Std.-Strain Pole Found.-Saturated Soil-Cond1110n.dgn  
mz:insgr

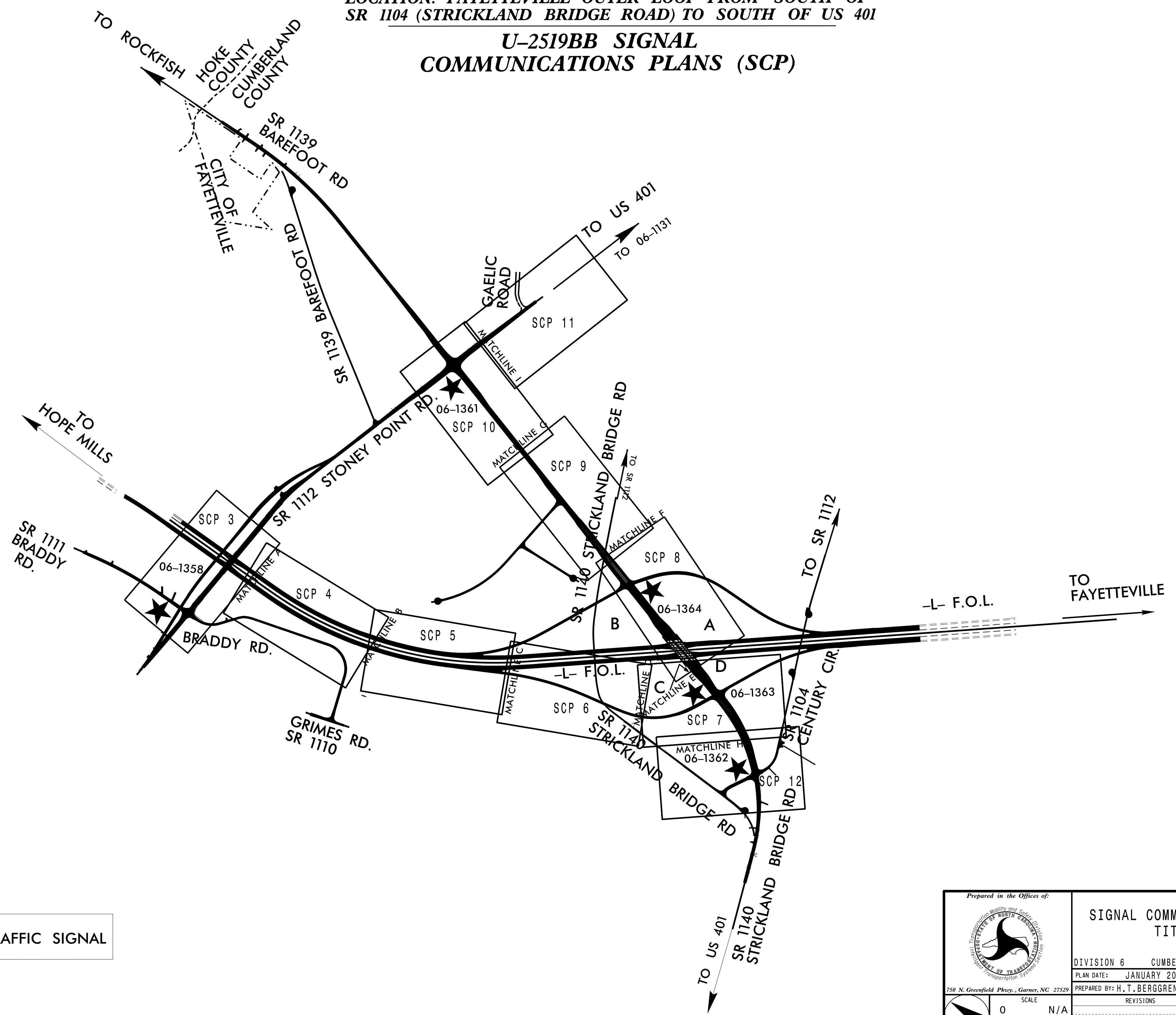


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CUMBERLAND COUNTY

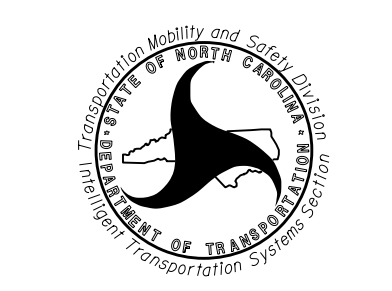

LOCATION: FAYETTEVILLE OUTER LOOP FROM SOUTH OF SR 1104 (STRICKLAND BRIDGE ROAD) TO SOUTH OF US 401

## U-2519BB SIGNAL COMMUNICATIONS PLANS (SCP)



★ PROPOSED TRAFFIC SIGNAL

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

 Prepared in the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	<b>SIGNAL COMMUNICATIONS PLANS TITLE SHEET</b>		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 042578 MATTHEW T. CARLISLE
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: G. ORN PREPARED BY: H. T. BERGGREN, EIT 99FB8BEF7984FA...		
SCALE N/A N/A	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	DATE _____ _____ _____

DATE: 02/02/2022

- 1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL COAX CABLE
- 3 INSTALL ETHERNET CABLE
- 4 INSTALL SMFO CABLE
- 5 EXISTING SMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE
- 27 INSTALL NEW FIBER OPTIC TRANSCEIVER
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 REMOVE EXISTING SPLICE CABINET

- 34 INSTALL CABINET FOUNDATION
- 35 INSTALL CCTV CAMERA POLE MOUNTED CABINET
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40A INSTALL OVERSIZED JUNCTION BOX
- 40B INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 36" x 24")
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48A REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 48B REMOVE EXISTING COMMUNICATIONS CABLE
- 49 BACK PULL EXISTING COMMUNICATIONS CABLE
- 50 INSTALL CELL MODEM AND ANTENNA
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52A INSTALL DELINEATOR MARKER
- 52B INSTALL JUNCTION BOX MARKER
- 53 STORE 20 FEET OF COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE
- 59 INSTALL NEW ETHERNET EDGE SWITCH
- 60 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 61 DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 62 BOND RISER AND MESSENGER CABLE TO POLE GROUND
- 63 BOND RISER TO POLE GROUND
- 64 BOND MESSENGER CABLE TO POLE GROUND
- 65 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 66 INSTALL MOLDABLE DUCT SEAL
- 67 SLACK SPAN

**LEGEND**

	FO	NEW FIBER OPTIC COMMUNICATIONS CABLE
	TWIST PR	NEW TWISTED PAIR COMMUNICATIONS CABLE
	EXI	EXISTING COMMUNICATIONS CABLE
	REM	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
		NEW AERIAL GUY ASSEMBLY
		NEW CONDUIT
		EXISTING CONDUIT
	DD	NEW DIRECTIONAL DRILLED CONDUIT
	B&J	NEW BORED AND JACKED CONDUIT
		NEW JUNCTION BOX
		EXISTING JUNCTION BOX
		NEW WOOD POLE
		EXISTING WOOD POLE
		AERIAL SPLICE ENCLOSURE
		UNDERGROUND SPLICE ENCLOSURE
		NEW METAL POLE
		EXISTING METAL POLE
		NEW CCTV ASSEMBLY
		NEW STANDARD GUY ASSEMBLY
		NEW SIDEWALK GUY ASSEMBLY
		SIGNAL INVENTORY NUMBER
		NEW CABLE STORAGE RACKS (SNOW SHOES)
		EXISTING CABLE STORAGE RACK (SNOW SHOE)
		EXISTING CONTROLLER AND CABINET
		NEW CCTV CABINET
		EXISTING SPLICE CABINET
		NEW SPLICE CABINET
		SP
		SIGNAL POLE
		FLAT PANEL ANTENNA (SINGLE)
		YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION
		YAGI ANTENNA (SINGLE)
		OMNI ANTENNA

**CONSTRUCTION NOTE SYMBOLOGY KEY**

- INDICATES NUMBER OF CABLES, LOOPS, ETC.
- INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

NUMBER OF CABLE(S)      NUMBER OF FIBERS/TWISTED PAIRS

NEW/EXISTING CABLE  
REMOVE/MODIFY CABLE  
CONDUIT/RISER

NUMBER OF RISER(S)/CONDUIT(S)      DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

**ATTACHMENT POINT:**

'SS  
YYY

DISTANCE ABOVE (IN)/ATTACHMENT POINT REFERENCE POINT

REFERENCE POINT

'SS

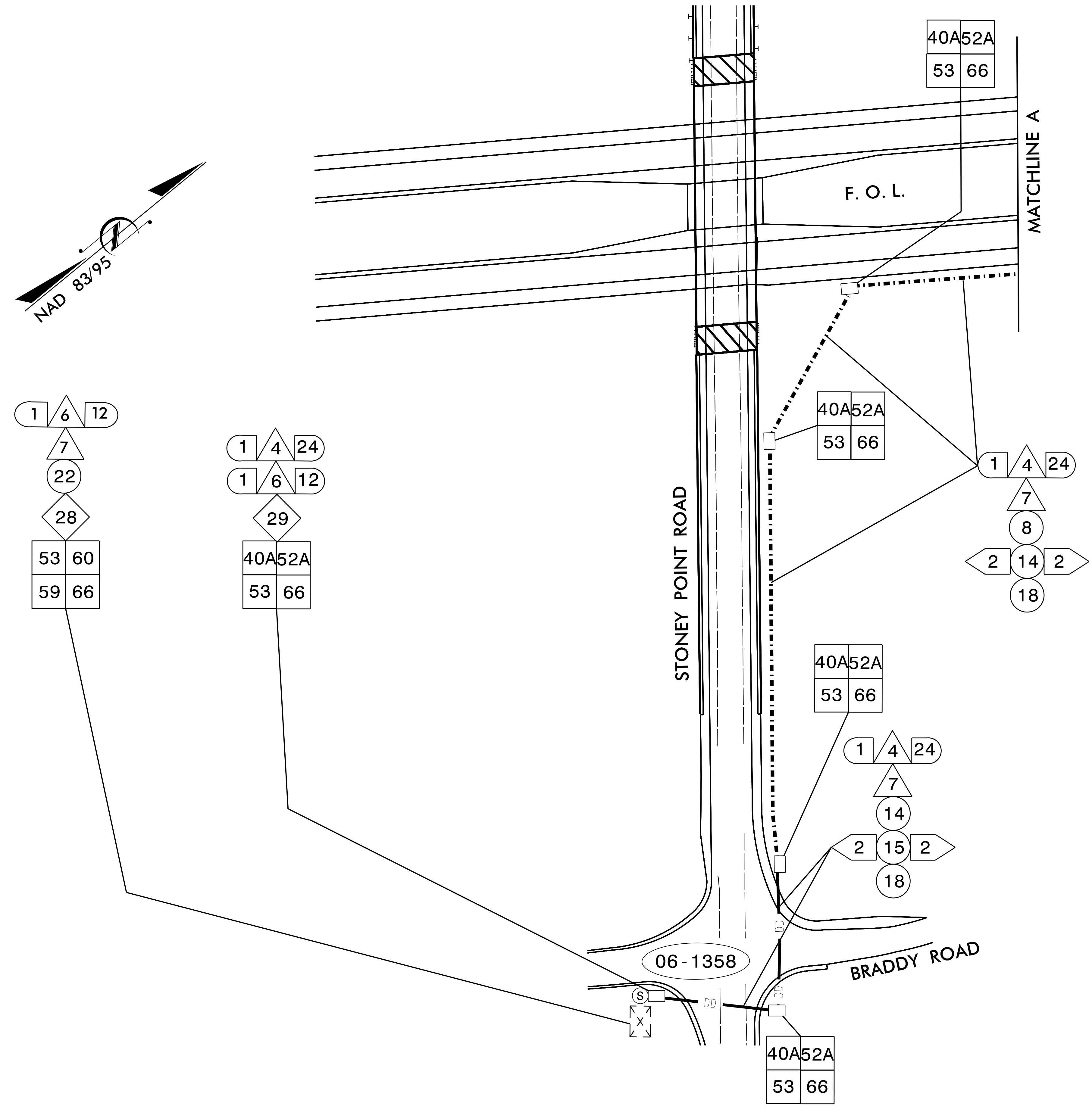
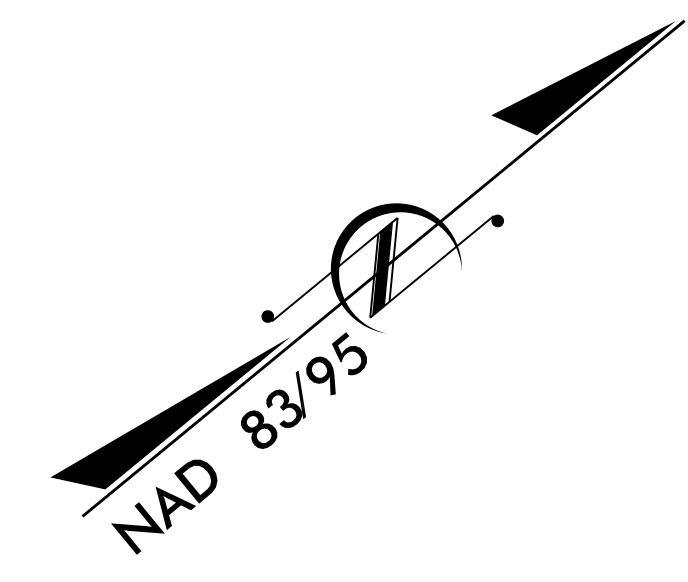
DISTANCE BELOW (IN)/ATTACHMENT POINT

**"SS" REFERENCE LOCATION**

FS = FRONT SIDE OF POLE  
BS = BACK SIDE OF POLE

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

	<b>CONSTRUCTION NOTES</b>	
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: G. GRAY PREPARED BY: H.T. BERGGREN, EIT 99FB8EF78A4FA...	REVISIONS      INIT.      DATE
SCALE: 0 N/A N/A	DATE: 02/02/2022	



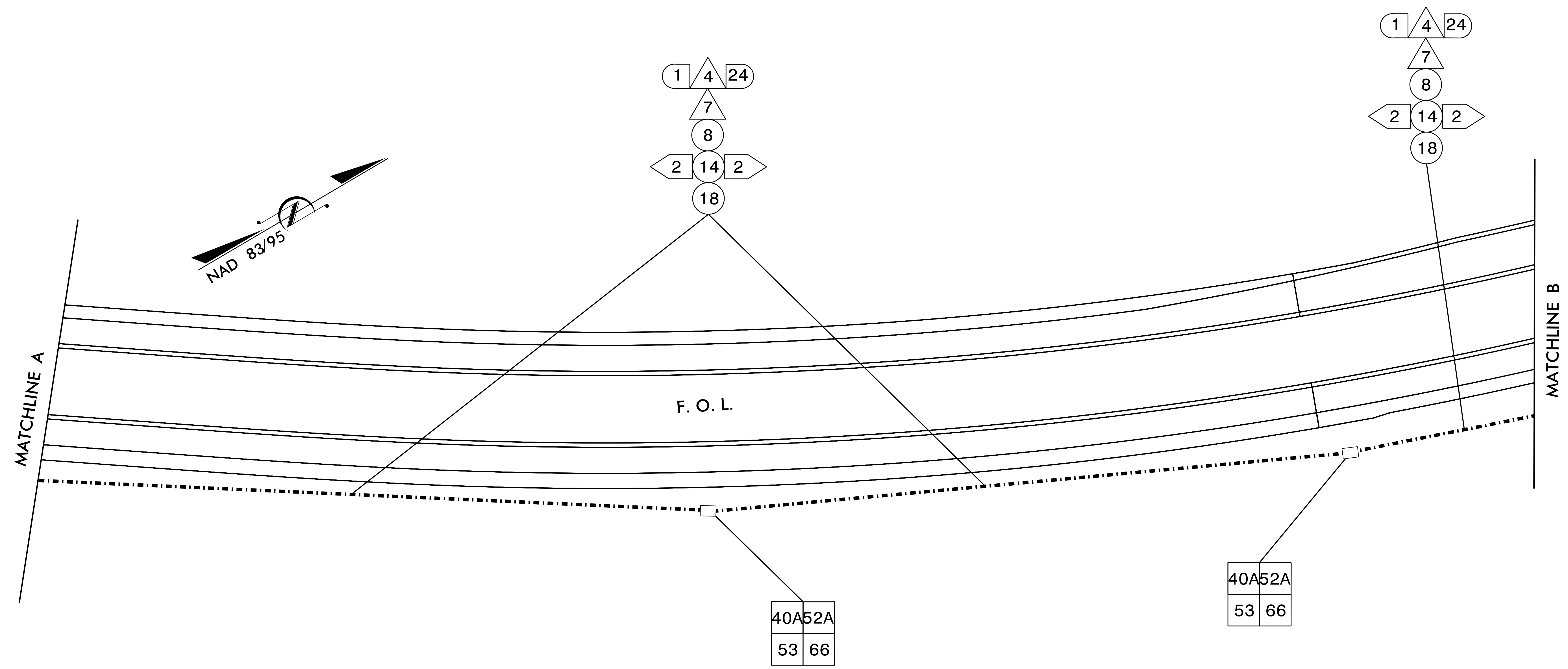
NOTES:

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FINAL PHASE

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

	<b>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</b>		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042578 MATTHEW T. CARLISLE DATE: 02/02/2022
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H. T. BERGGREN, EIT	REVISIONS _____ _____ _____	
Prepared in the Offices of: 	SCALE 0 50 1" = 50'		DATE: 02/02/2022

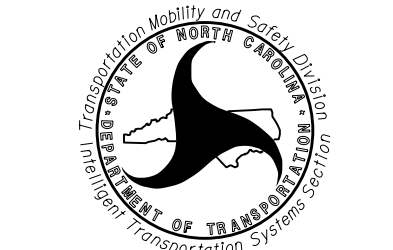
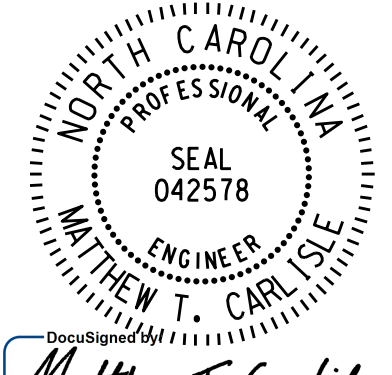
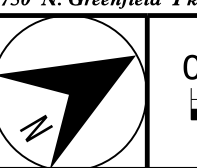


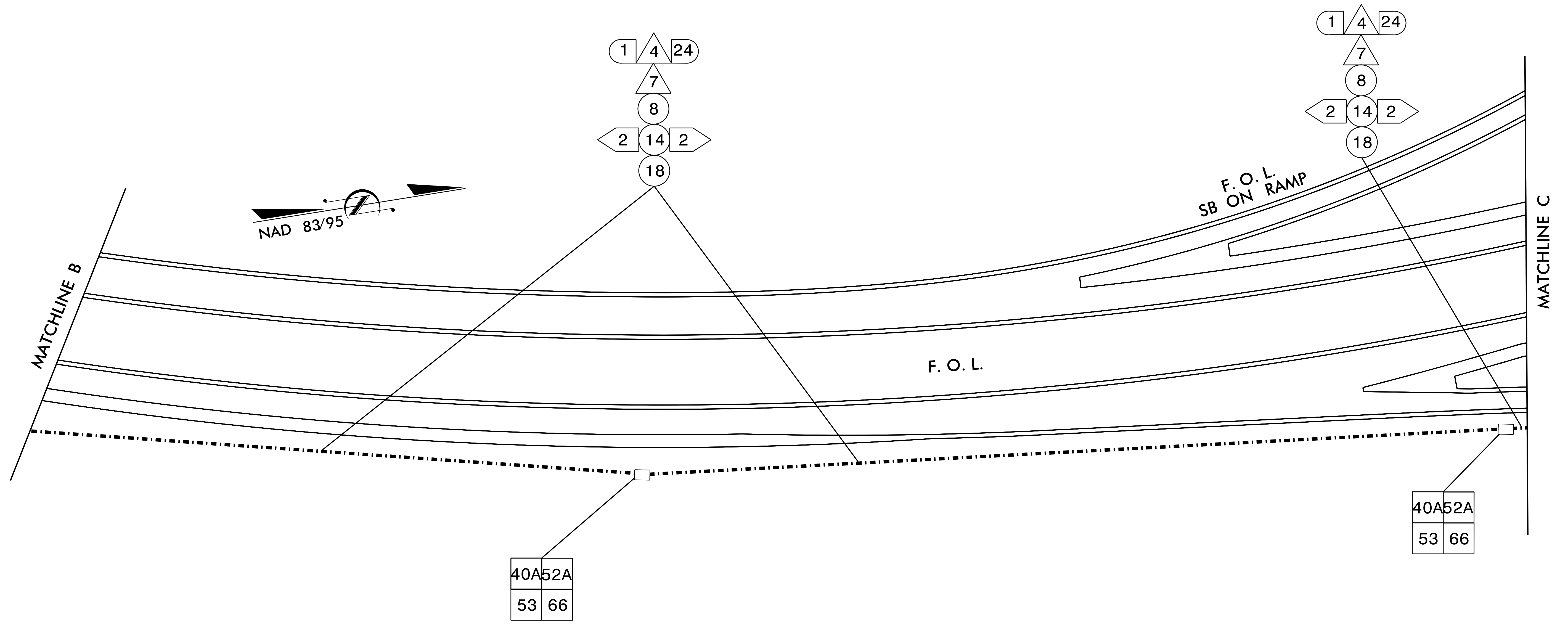
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FINAL PHASE

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 Prepared in the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	<b>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</b>		 SEAL 042578 MATTHEW T. CARLISLE ENGINEER									
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Owen</i> PREPARED BY: H. T. BERGGREN, EI 99FB8BEF78A4FA...											
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REVISIONS	INIT.	DATE										

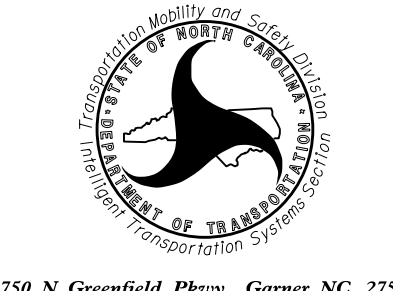
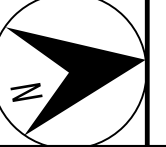


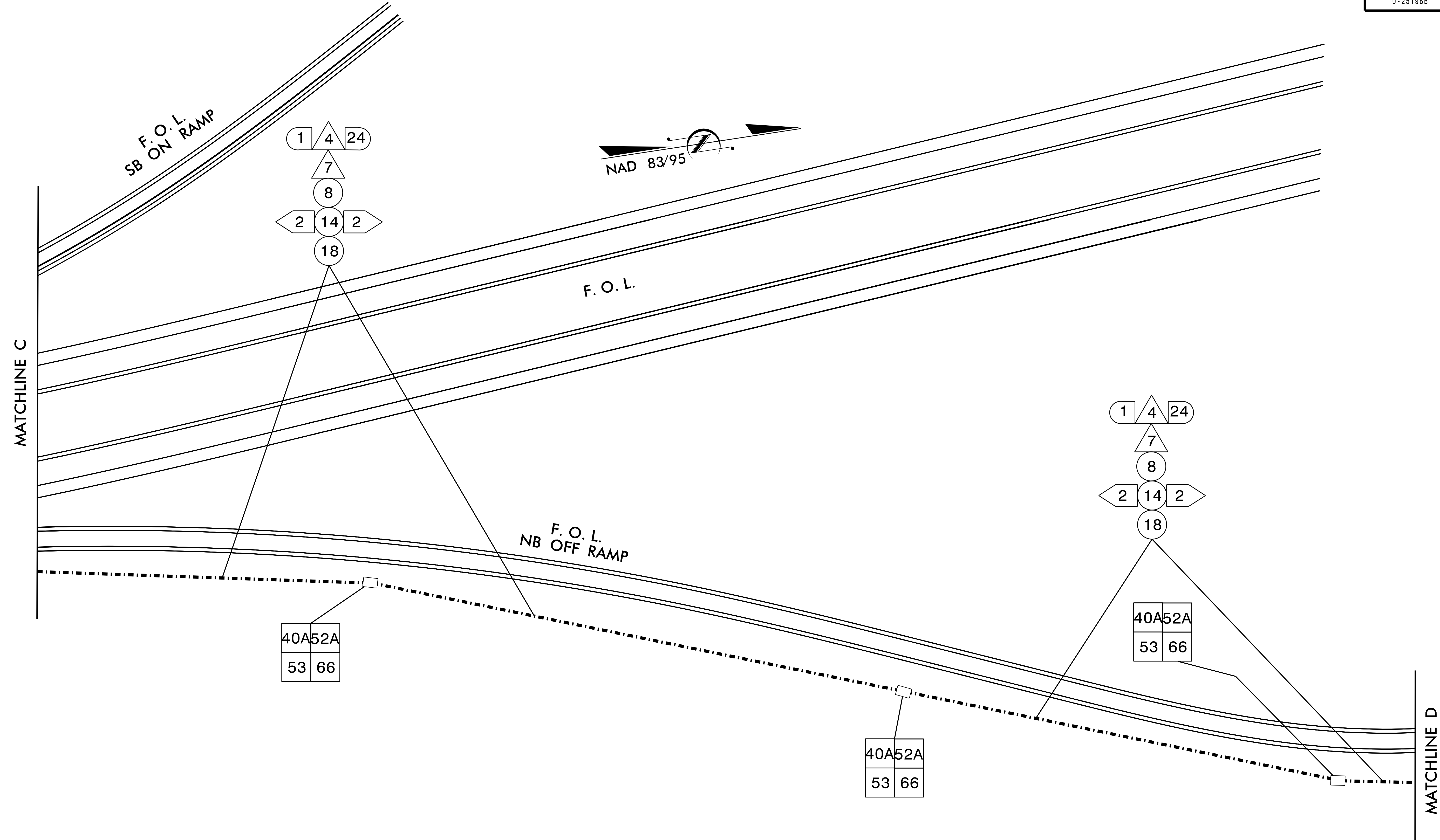
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**FINAL PHASE**

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 Prepared in the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	<b>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</b>		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042578 MATTHEW T. CARLISE DATE: 02/07/2022									
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H.T. BERGGREN, EIT 99FB8BEF7954FA...											
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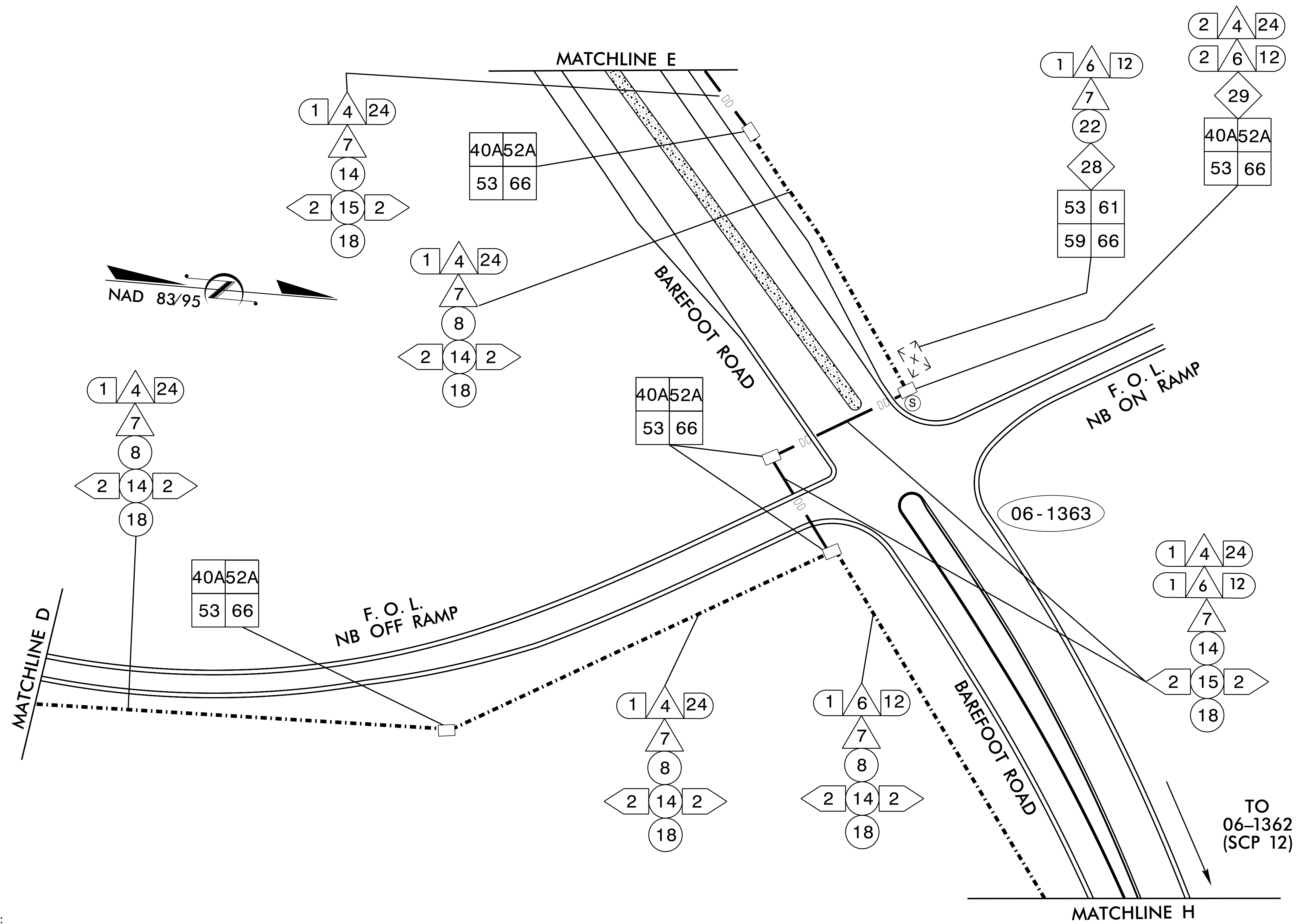
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FINAL PHASE

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<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</p>									
	<p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p> <p>PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Owen</i></p> <p>PREPARED BY: H.T. BERGGREN, EI</p>	<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION	DATE				<p>INIT. DATE</p> <table border="1"> <tr> <td> </td> <td> </td> </tr> </table>
NO.	DESCRIPTION	DATE								
<p>SCALE 0 50</p> <p>1" = 50'</p>	<p>DATE: 02/02/2022</p>		<p>Matthew T. Carlisle</p>							



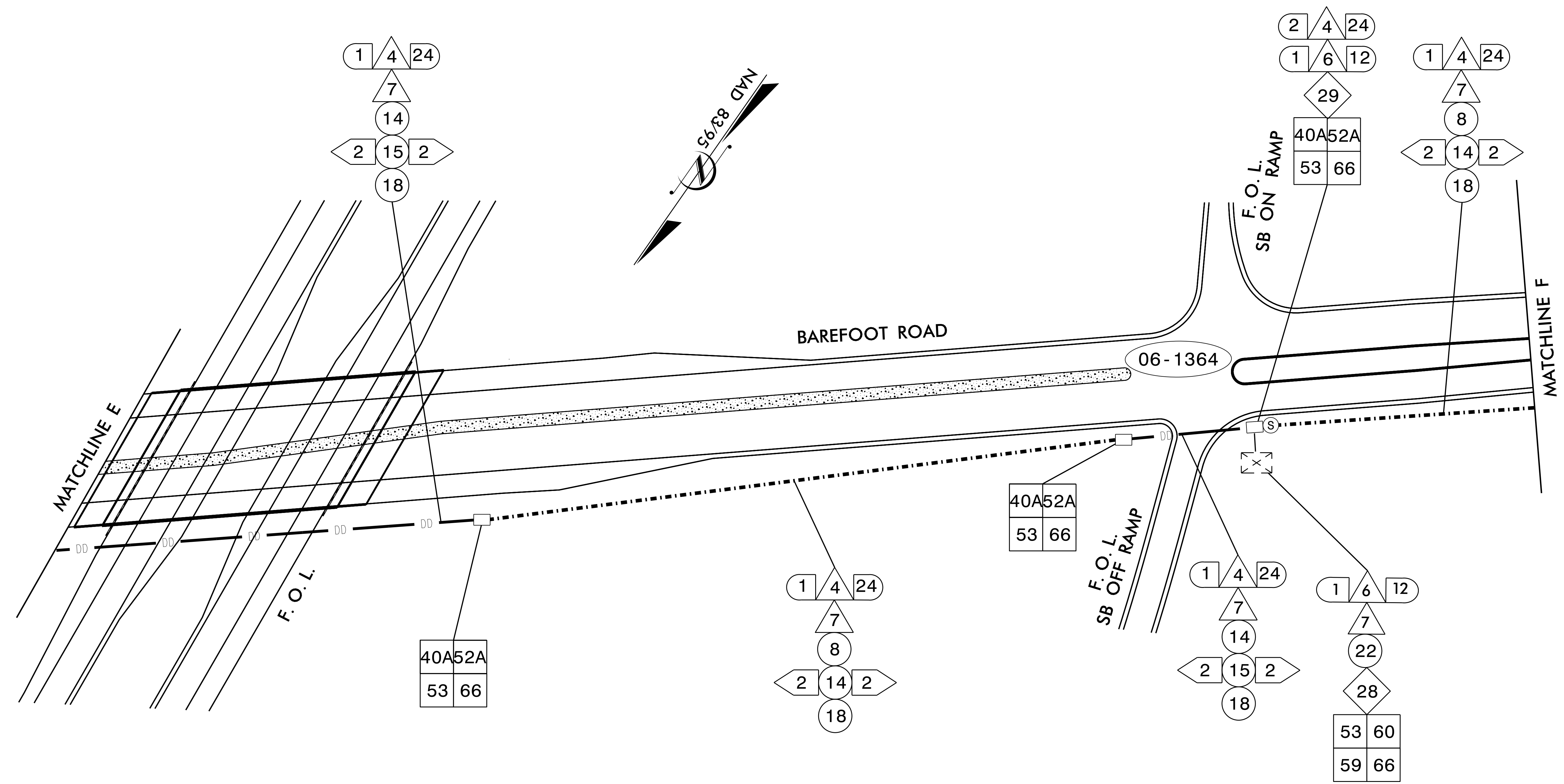
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	Prepared in the Offices of: 		COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H. T. BERGGREN, EIT 99FB8BEF78A4FA...
	SCALE 0 50 1" = 50'	REVISIONS INIT. DATE	

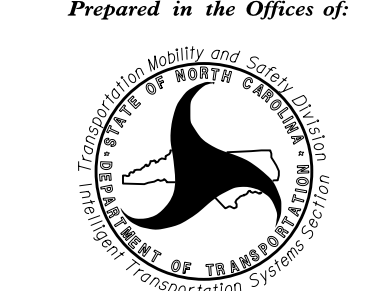
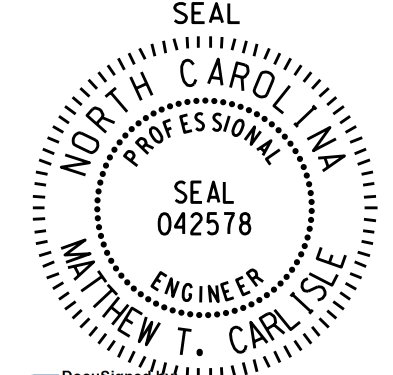


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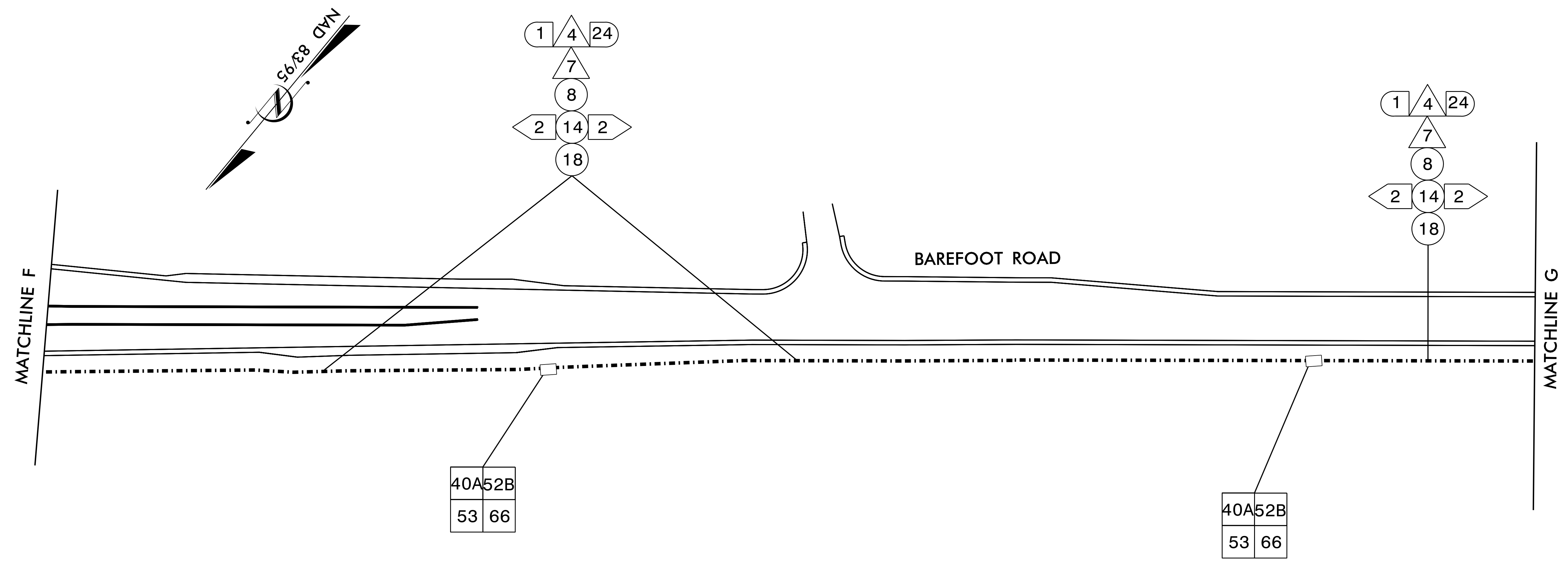
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	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H.T. BERGGREN, EIT 99FB8BEF78A4FA...		
SCALE 0 50 1" = 50'	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	DATE _____ _____ _____





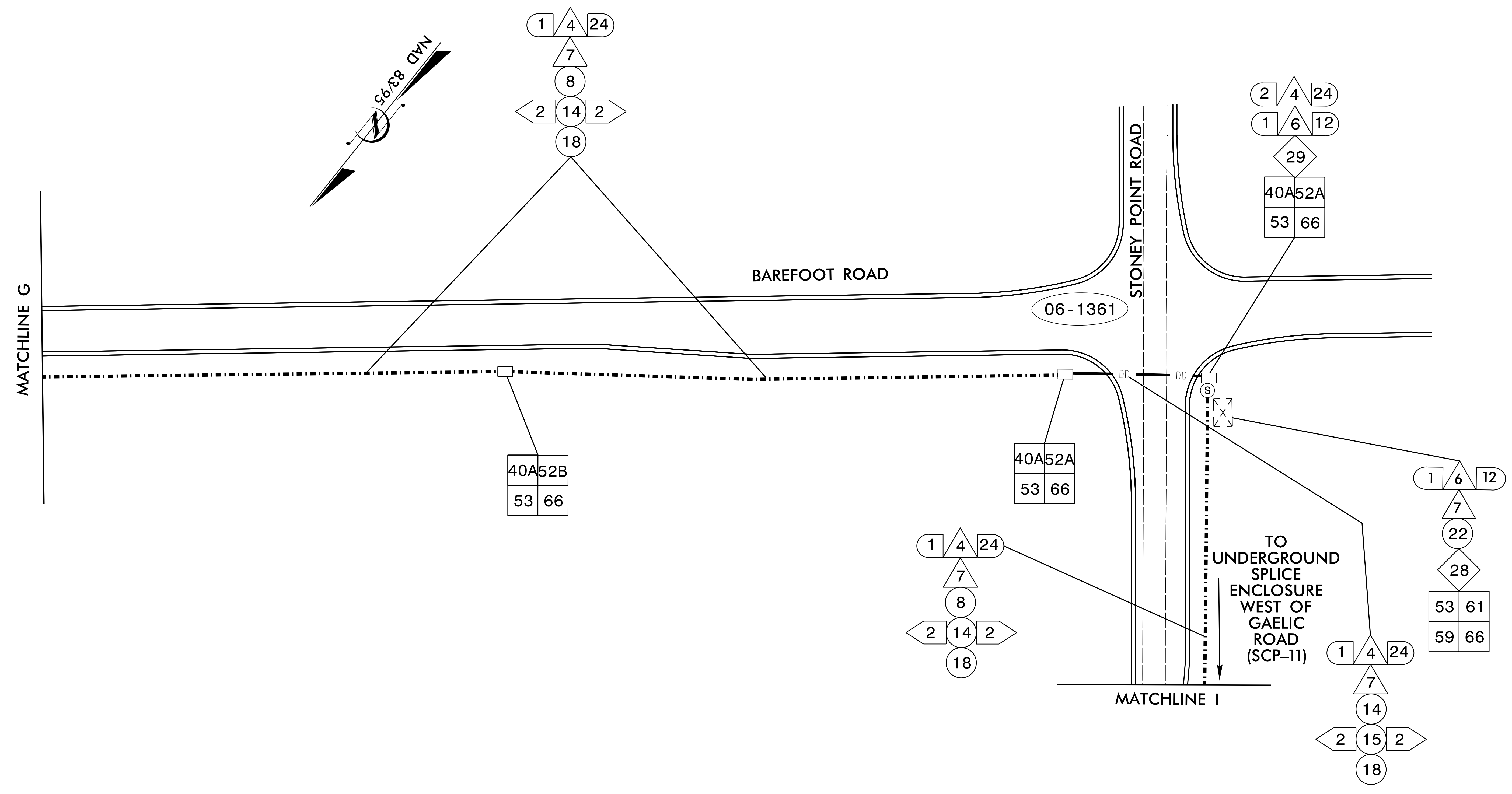
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	<p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p>	
<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>PLAN DATE: JANUARY 2022</p>	<p>REVIEWED BY: <i>G. Owen</i></p>
<p>SCALE 0 50 1" = 50'</p>	<p>PREPARED BY: H. T. BERGGREN, EI</p>	<p>REVISIONS</p>
		<p>INIT. DATE</p>
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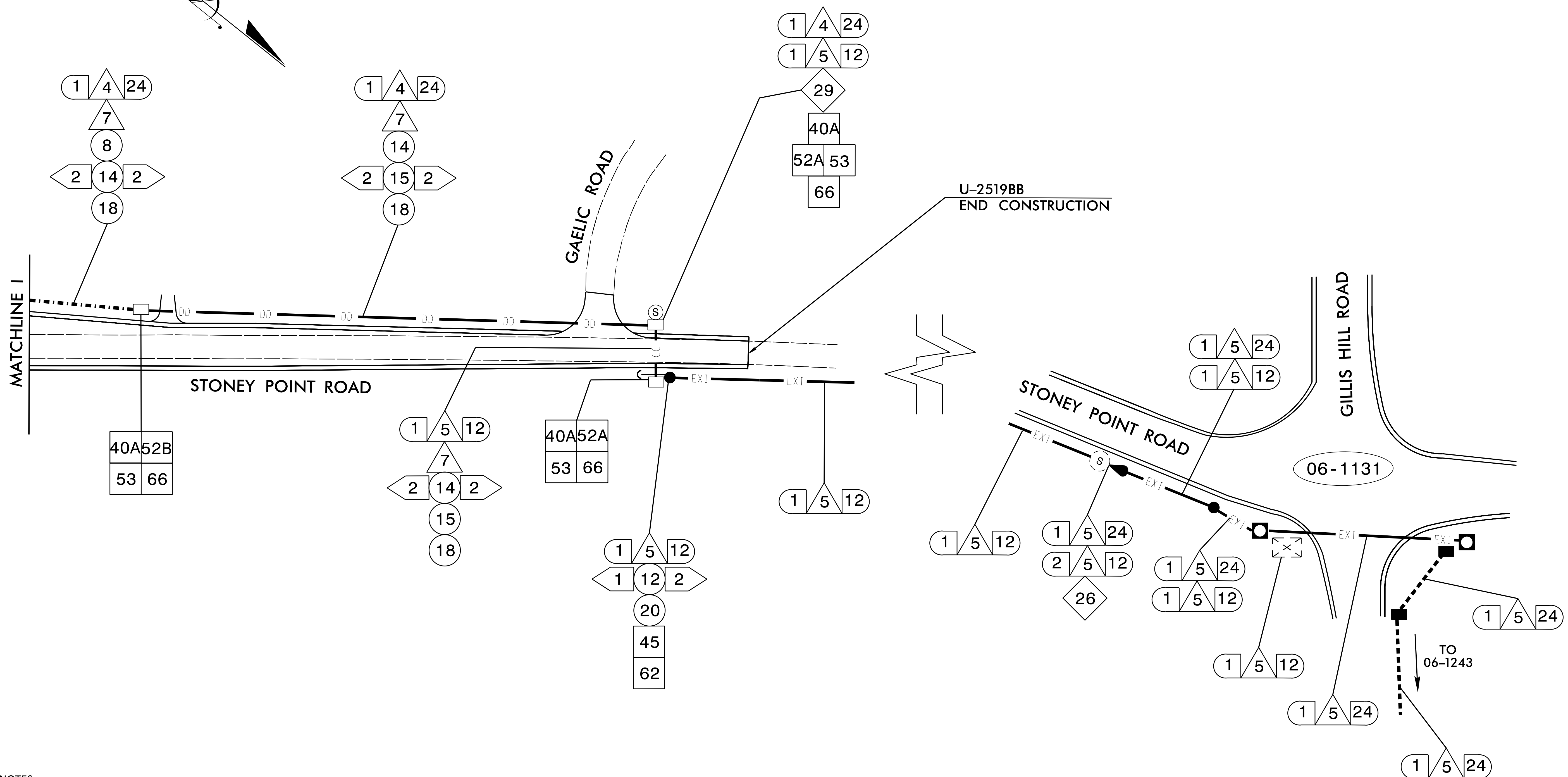
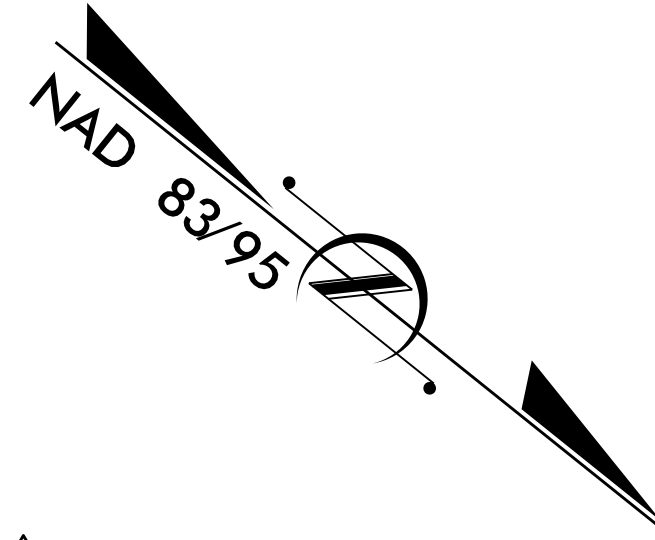
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	<p>COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS</p>							
	<p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p>	<p>REVIEWED BY: <i>G. Crum</i></p>						
<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>PLAN DATE: JANUARY 2022</p>	<p>PREPARED BY: H. T. BERGGREN, EI</p>						
<p>SCALE 0 50 1" = 50'</p>	<table border="1"> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISIONS	INIT.	DATE				<p>DATE: 02/02/2022</p>
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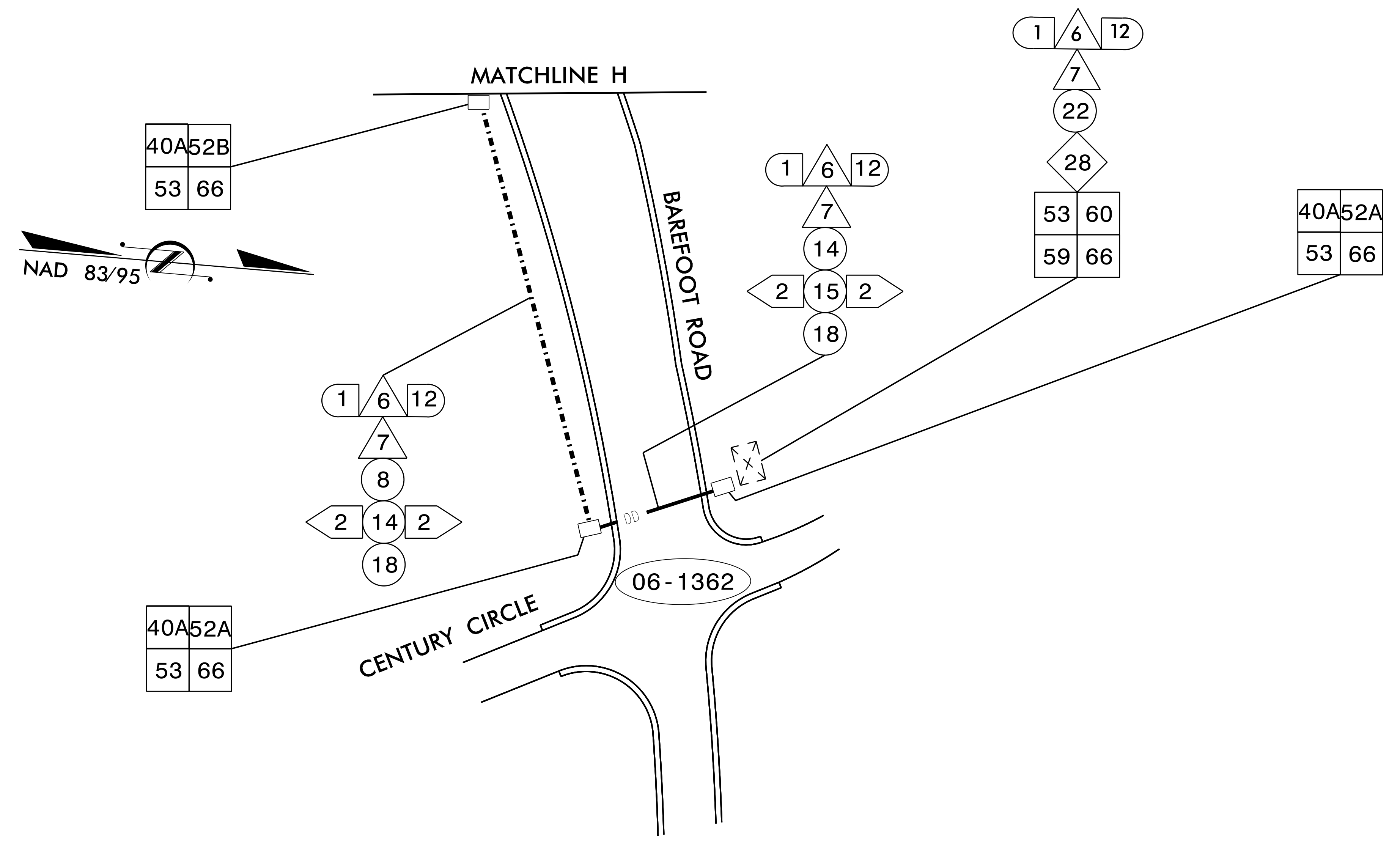
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- 2) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.

FINAL PHASE

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

	COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS		
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE	SEAL 042578	
PLAN DATE: JANUARY 2022	REVIEWED BY: <i>G. Green</i>	ENGINEER	
PREPARED BY: H. T. BERGGREN, EIT	MATTHEW T. CARLISLE		
REVISIONS	INIT.	DATE	
SCALE 0 50 1" = 50'	DATE: 02/02/2022		

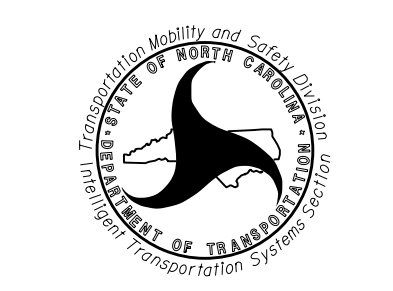
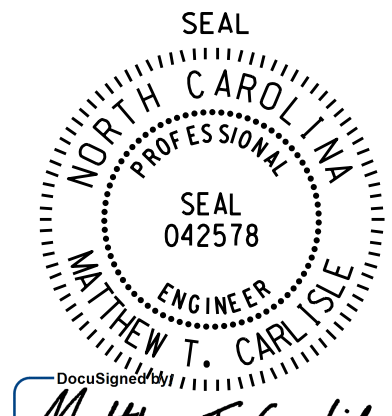


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	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Owen</i> PREPARED BY: H. T. BERGGREN, EI 99FBDEF7954FA...		
SCALE 0 50 1" = 50'	REVISIONS _____ _____ _____	INIT. DATE _____ _____	DATE _____ _____

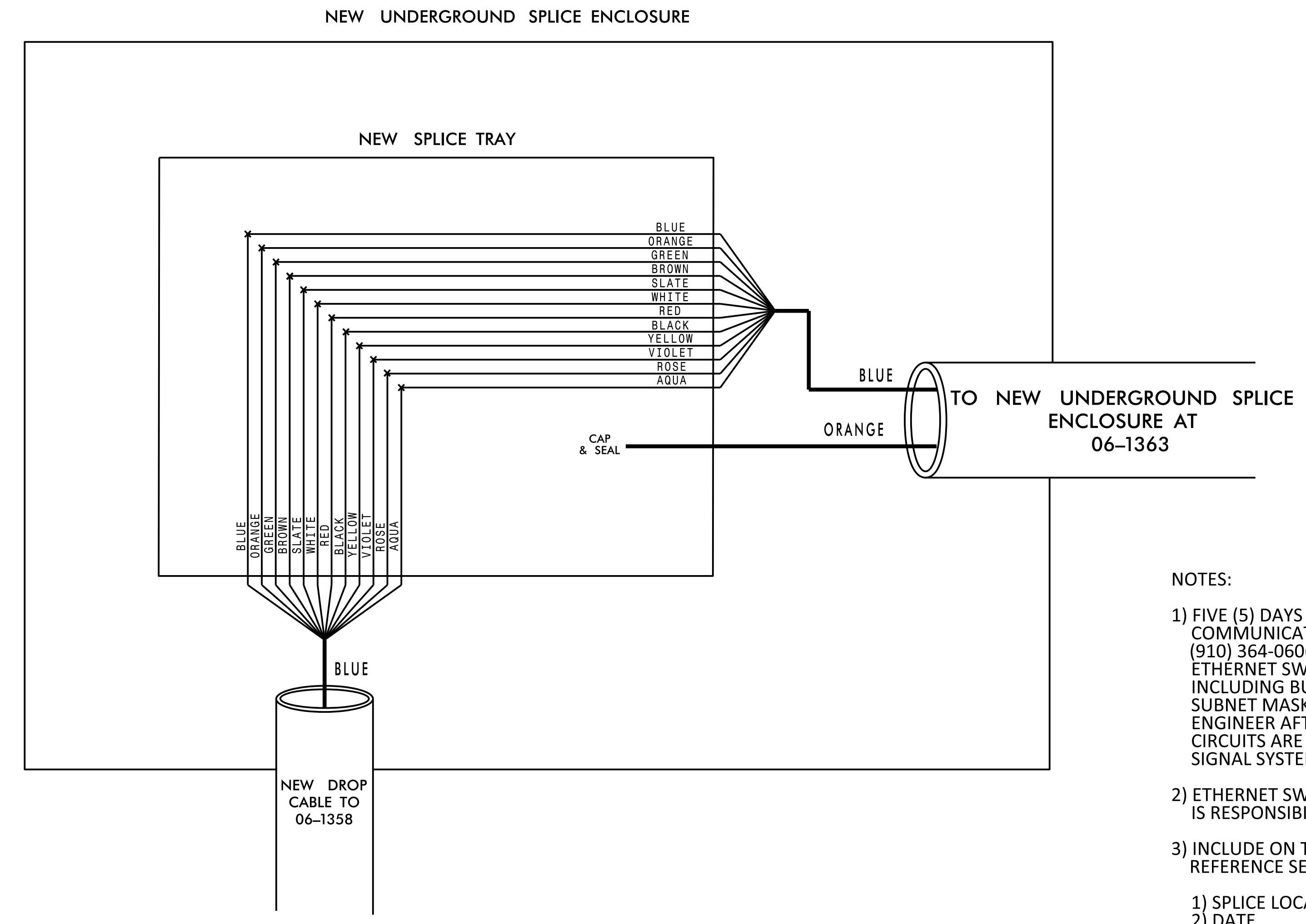
**NEW UNDERGROUND SPLICE ENCLOSURE AT STONEY POINT ROAD & BRADY ROAD SIG. INV. 06-1358**

**Notes:**  
 Unused fibers left coiled and stored in splice tray.  
 Unused buffer tubes left coiled and stored in splice tray.

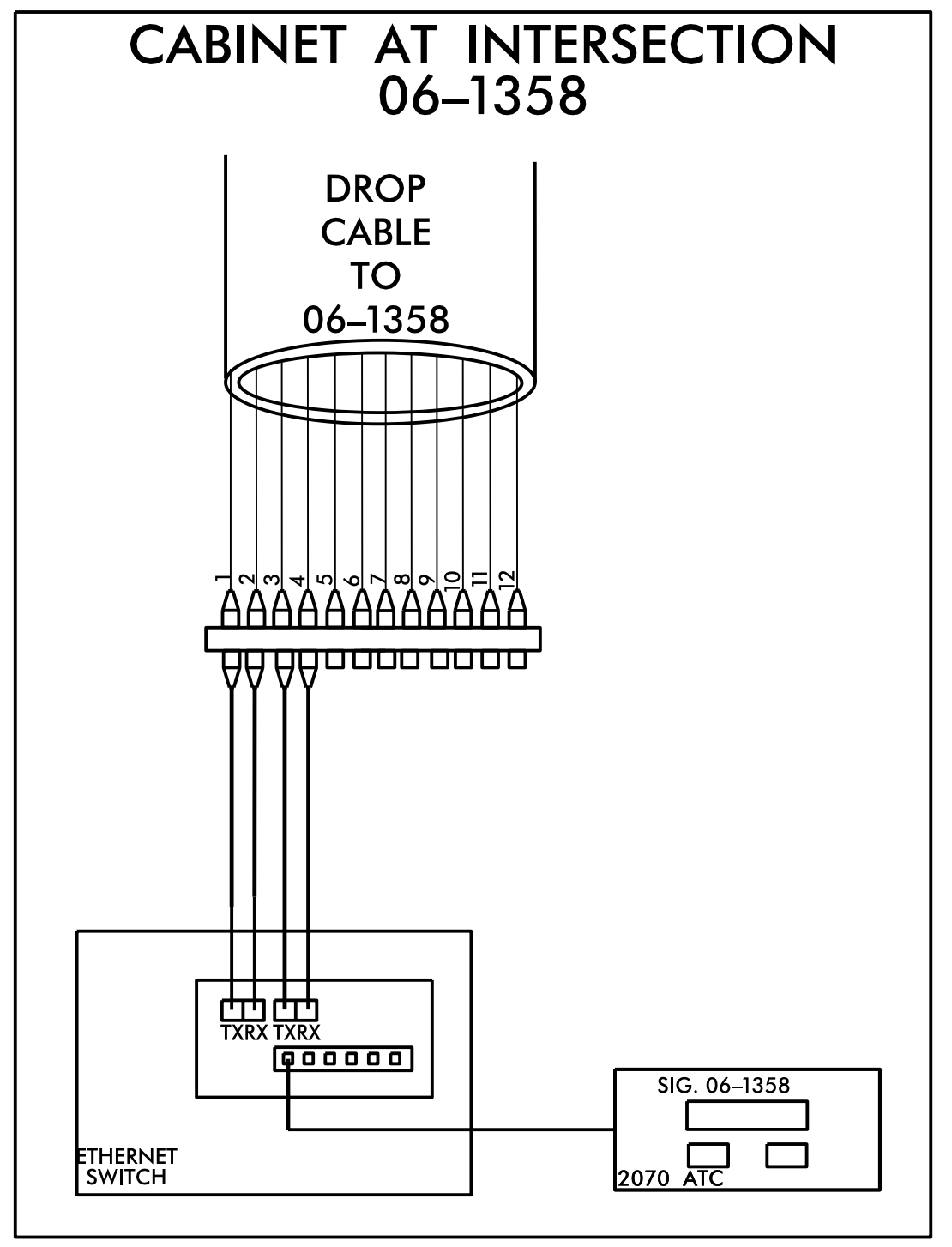
**LEGEND**

COLOR CODE  
TIA/EIA 598-A

(1) BLUE	(7) RED	X - FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	
(3) GREEN	(9) YELLOW	BUFFER TUBE SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	



- NOTES:**
- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
  - 2) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
  - 3) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:  
 REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"  
 1) SPLICE LOCATION  
 2) DATE  
 3) COMPANY NAME  
 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.



**FINAL PHASE**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

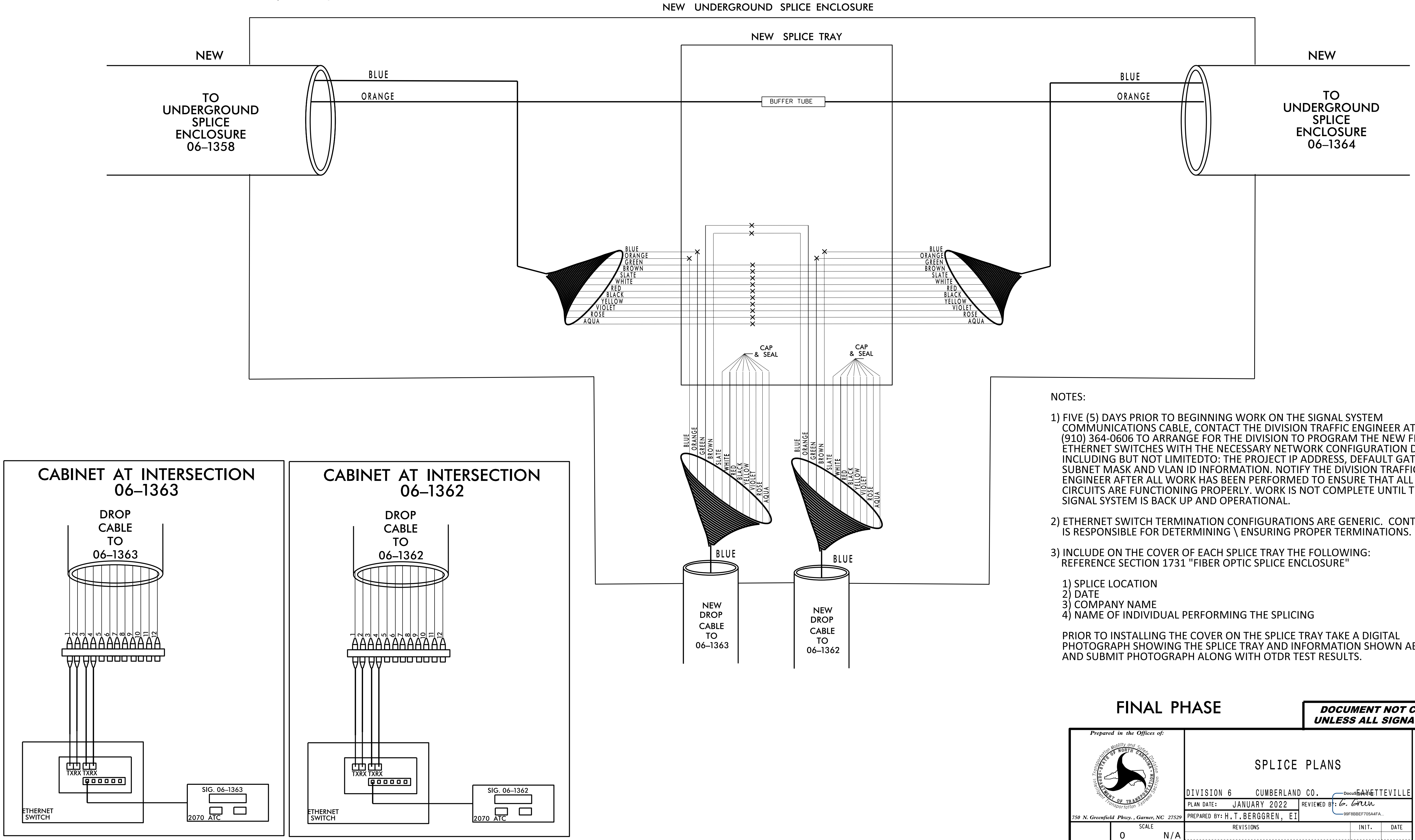
	<b>SPLICE PLANS</b>		
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H.T. BERGGREN, EI	SCALE: 0 N/A REVISIONS: _____ INIT. DATE: _____	

**NEW UNDERGROUND SPLICE ENCLOSURE AT BAREFOOT ROAD & F. O. L. NB ON RAMP AT SIG. INV. 06-1363**

**LEGEND**

COLOR CODE TIA/EIA 598-A		
(1) BLUE	(7) RED	X - FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	
(3) GREEN	(9) YELLOW	[BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	

**Notes:**  
Unused fibers left coiled and stored in splice tray.



- NOTES:**
- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
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  - 3) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
    - 1) SPLICE LOCATION
    - 2) DATE
    - 3) COMPANY NAME
    - 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

**FINAL PHASE**

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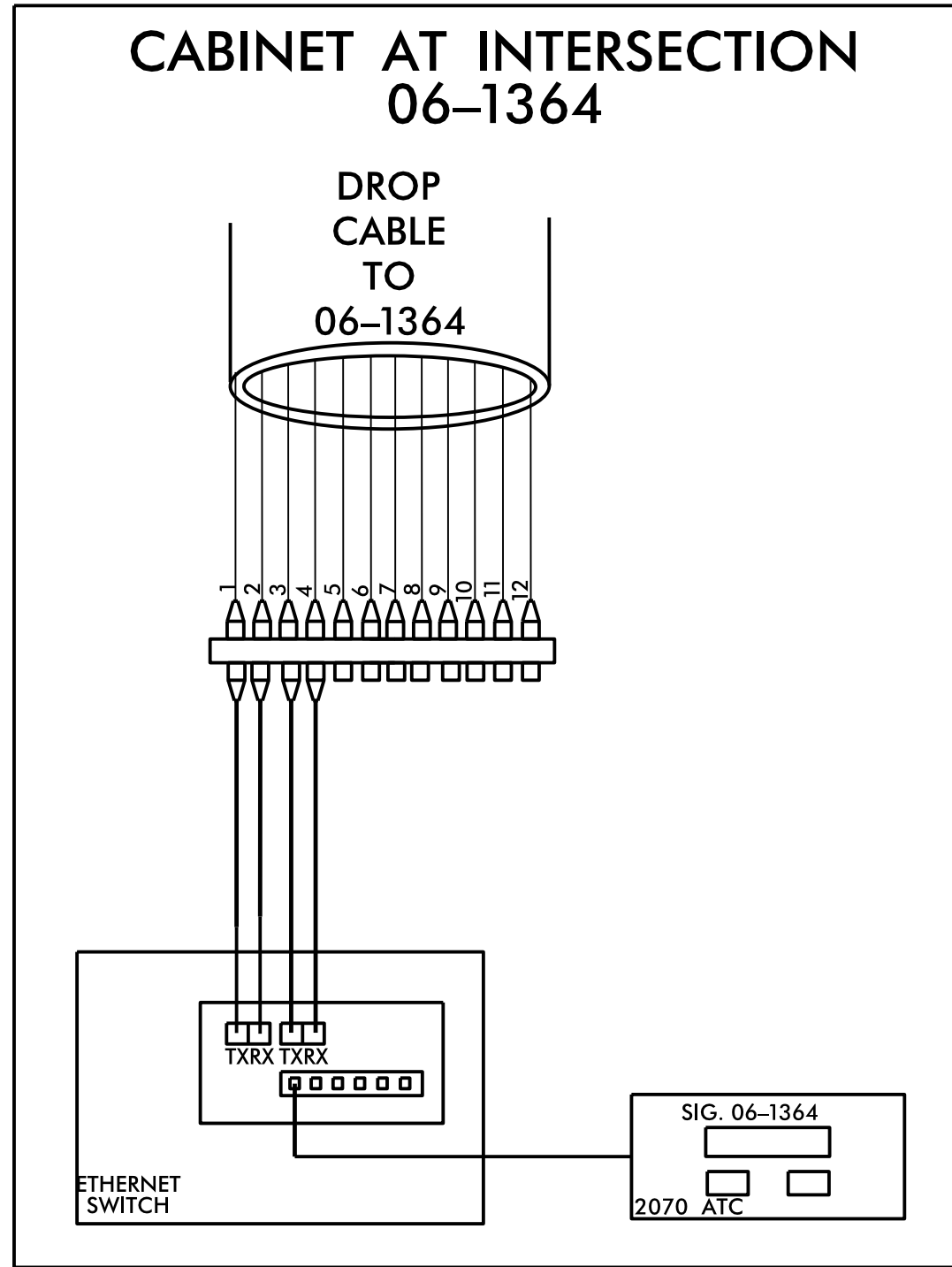
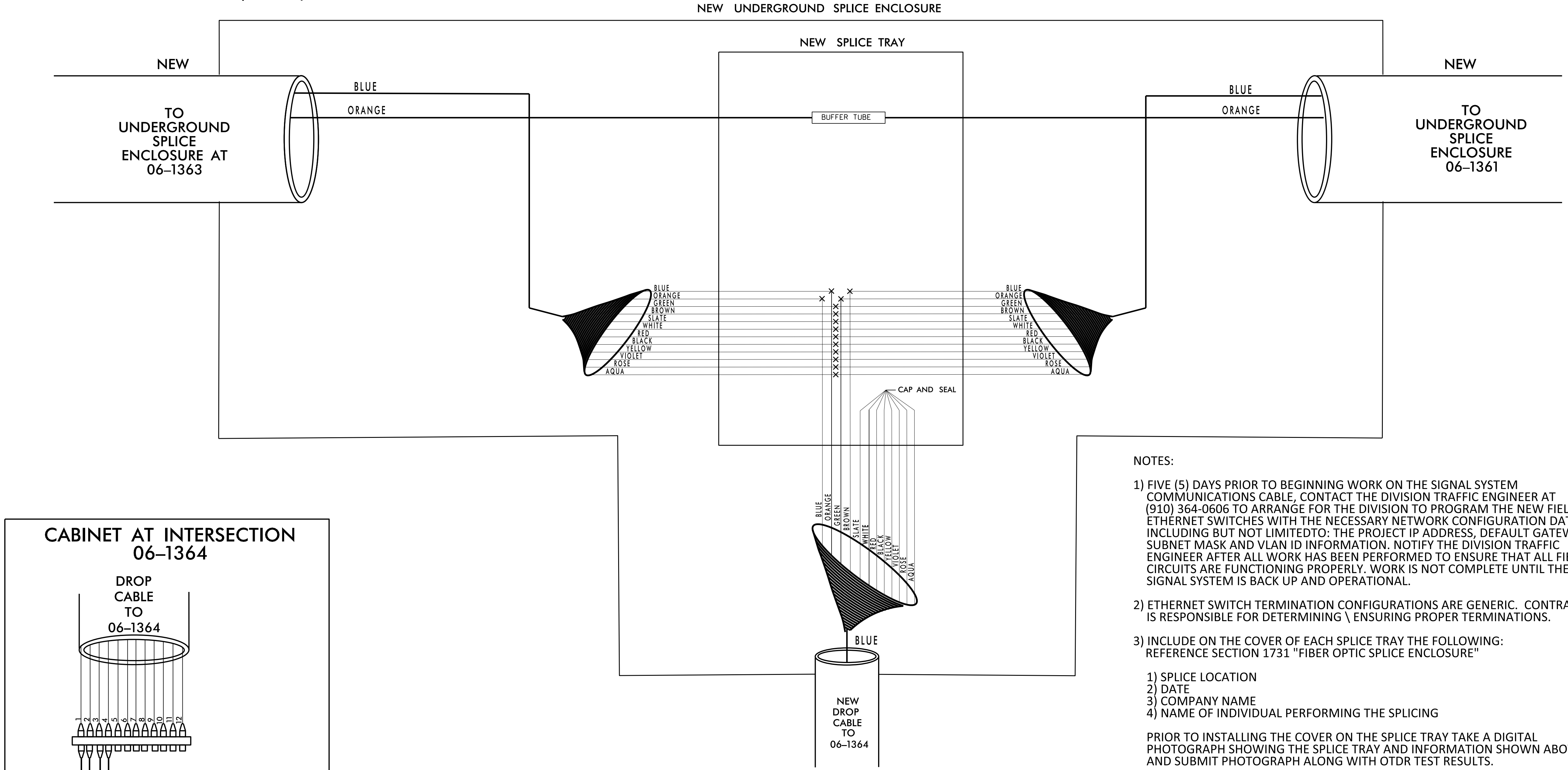
<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p><b>SPLICE PLANS</b></p> <p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p> <p>PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. GRAY</i></p> <p>PREPARED BY: H. T. BERGGREN, EI</p>		<p>Matthew T. Carlisle 02/02/2022</p>
	<p>SCALE: 0 N/A</p>	<p>REVISIONS</p>	

**NEW UNDERGROUND SPLICE ENCLOSURE AT F. O. L. SB ON RAMP & F. O. L. SB OFF RAMP**  
**SIG. INV. 06-1364**

**LEGEND**

COLOR CODE TIA/EIA 598-A		X - FUSION SPLICE INDIVIDUAL FIBER
(1) BLUE	(7) RED	
(2) ORANGE	(8) BLACK	[BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(3) GREEN	(9) YELLOW	
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	

Notes:  
 Unused fibers left coiled and stored in splice tray.



- NOTES:
- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
  - 2) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
  - 3) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:  
 REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"  
 1) SPLICE LOCATION  
 2) DATE  
 3) COMPANY NAME  
 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

**FINAL PHASE**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

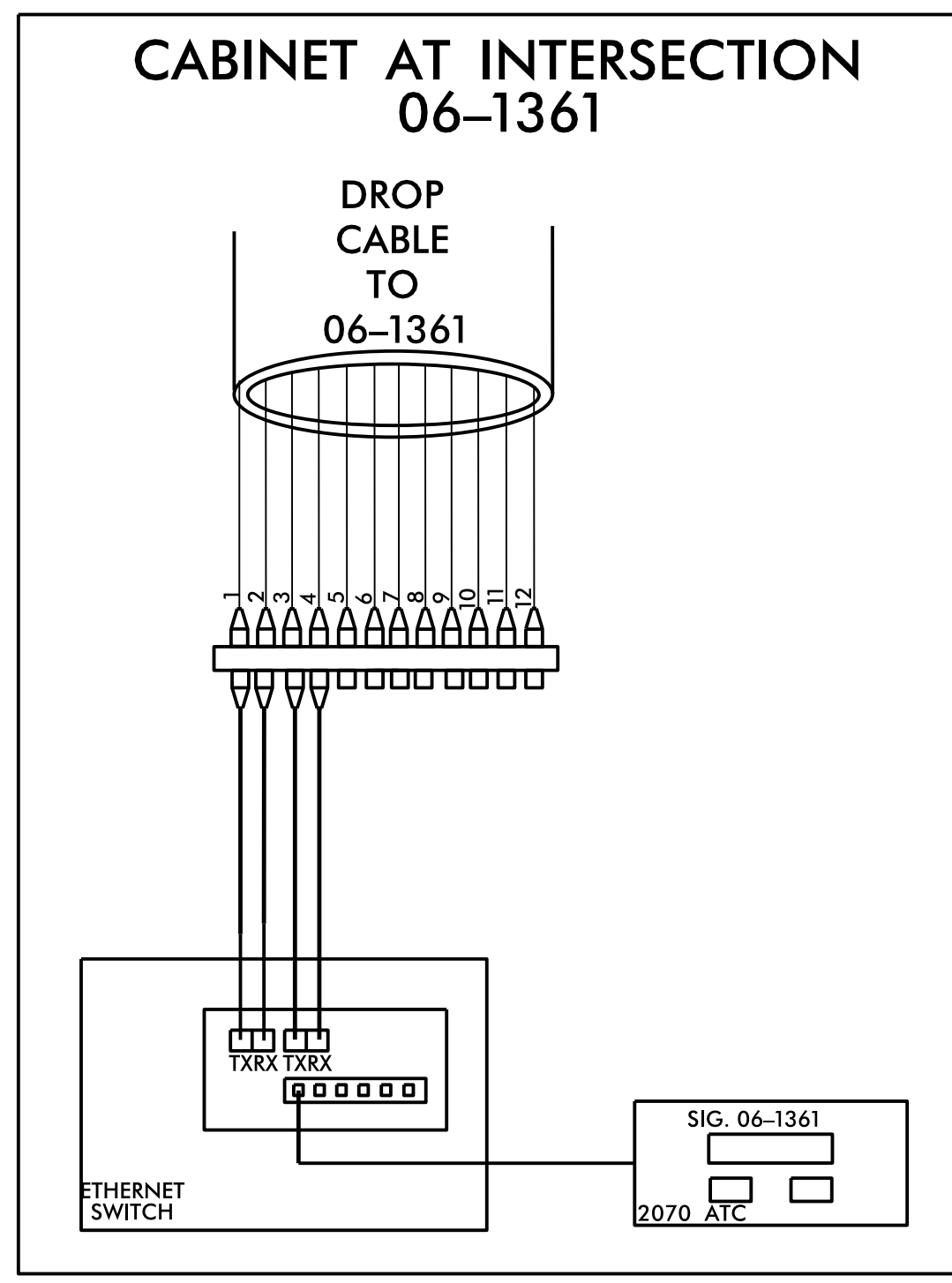
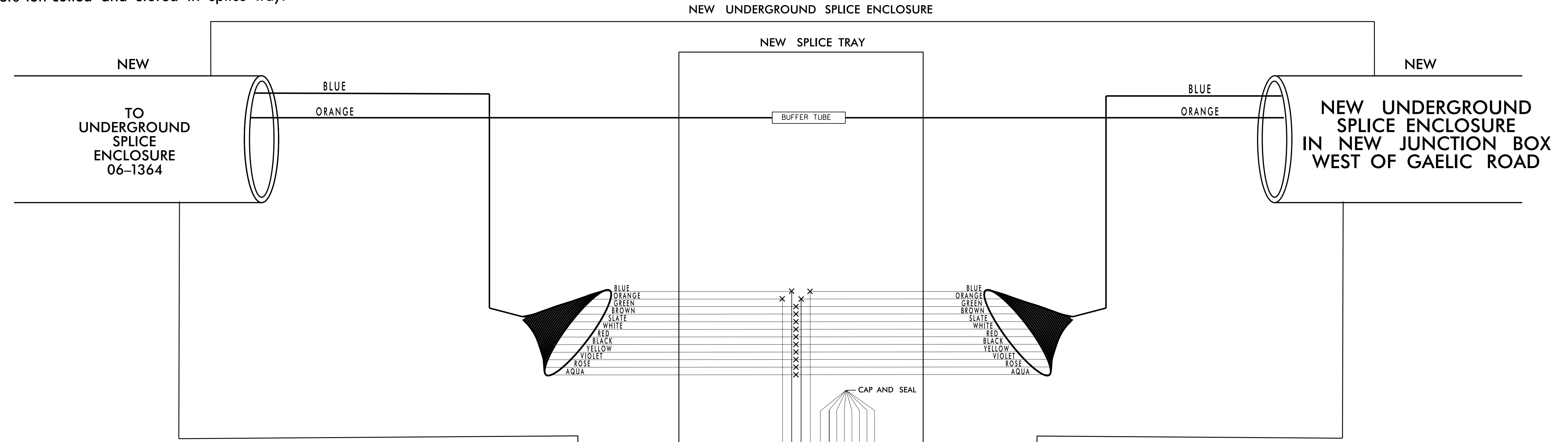
	<b>SPLICE PLANS</b>	
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i> PREPARED BY: H. T. BERGGREN, EI 99FB8BEF78A4FA...	
SCALE 0 N/A N/A	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____

**NEW UNDERGROUND SPLICE ENCLOSURE AT BAREFOOT ROAD & STONEY POINT ROAD**  
 SIG. INV. 06-1361

**LEGEND**

COLOR CODE TIA/EIA 598-A		X - FUSION SPLICE INDIVIDUAL FIBER
(1) BLUE	(7) RED	
(2) ORANGE	(8) BLACK	[BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(3) GREEN	(9) YELLOW	
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	

Notes:  
 Unused fibers left coiled and stored in splice tray.



NOTES:

- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
- ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
  - SPLICE LOCATION
  - DATE
  - COMPANY NAME
  - NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

**FINAL PHASE**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p><b>SPLICE PLANS</b></p>		
	<p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p> <p>PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Green</i></p> <p>PREPARED BY: H.T. BERGGREN, EI</p>	<p>SCALE: 0 N/A</p>	

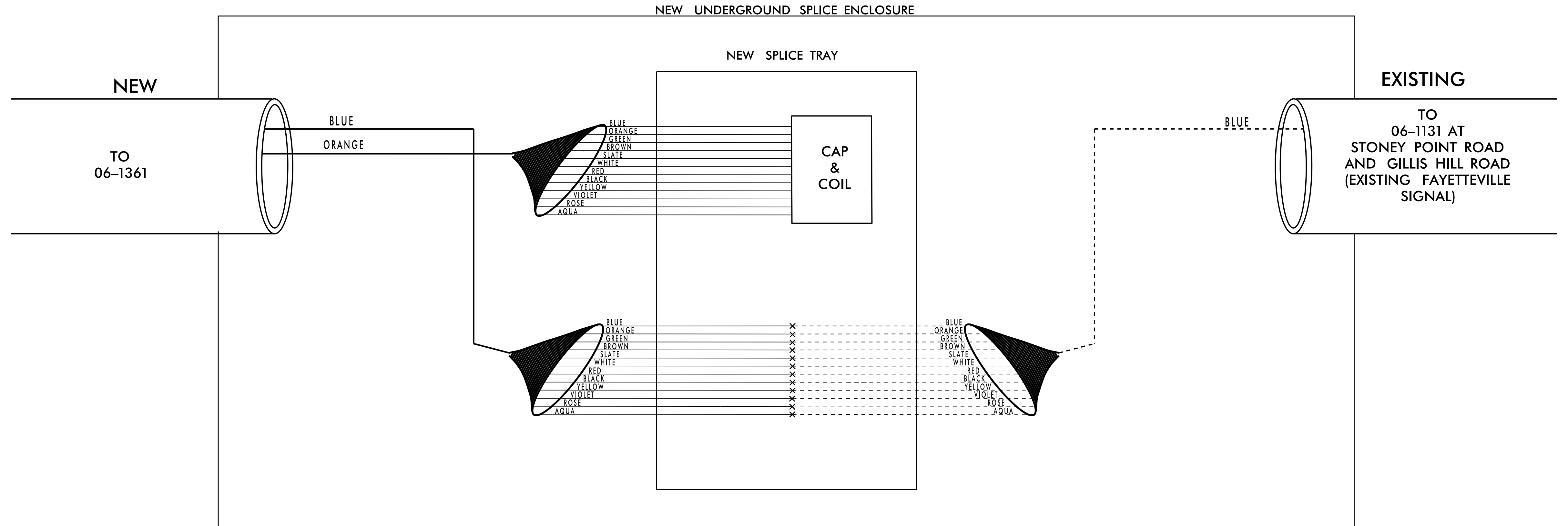
DATE: 02/02/2022



**NEW UNDERGROUND  
SPLICE ENCLOSURE  
IN NEW JUNCTION BOX  
WEST OF GAELIC ROAD**

LEGEND

COLOR CODE TIA/EIA 598-A		
(1) BLUE	(7) RED	X - FUSION SPLICE INDIVIDUAL FIBER
(2) ORANGE	(8) BLACK	
(3) GREEN	(9) YELLOW	[BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	



**NOTES:**

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
- 2) UNCOIL EXISTING 12-FIBER CABLE AND INSTALL A NEW UNDERGROUND SPLICE ENCLOSURE FOR INTERCONNECTION INTO THE FAYETTEVILLE SIGNAL SYSTEM.
- 3) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.

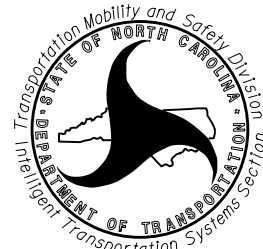

- 4) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

**FINAL PHASE**

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

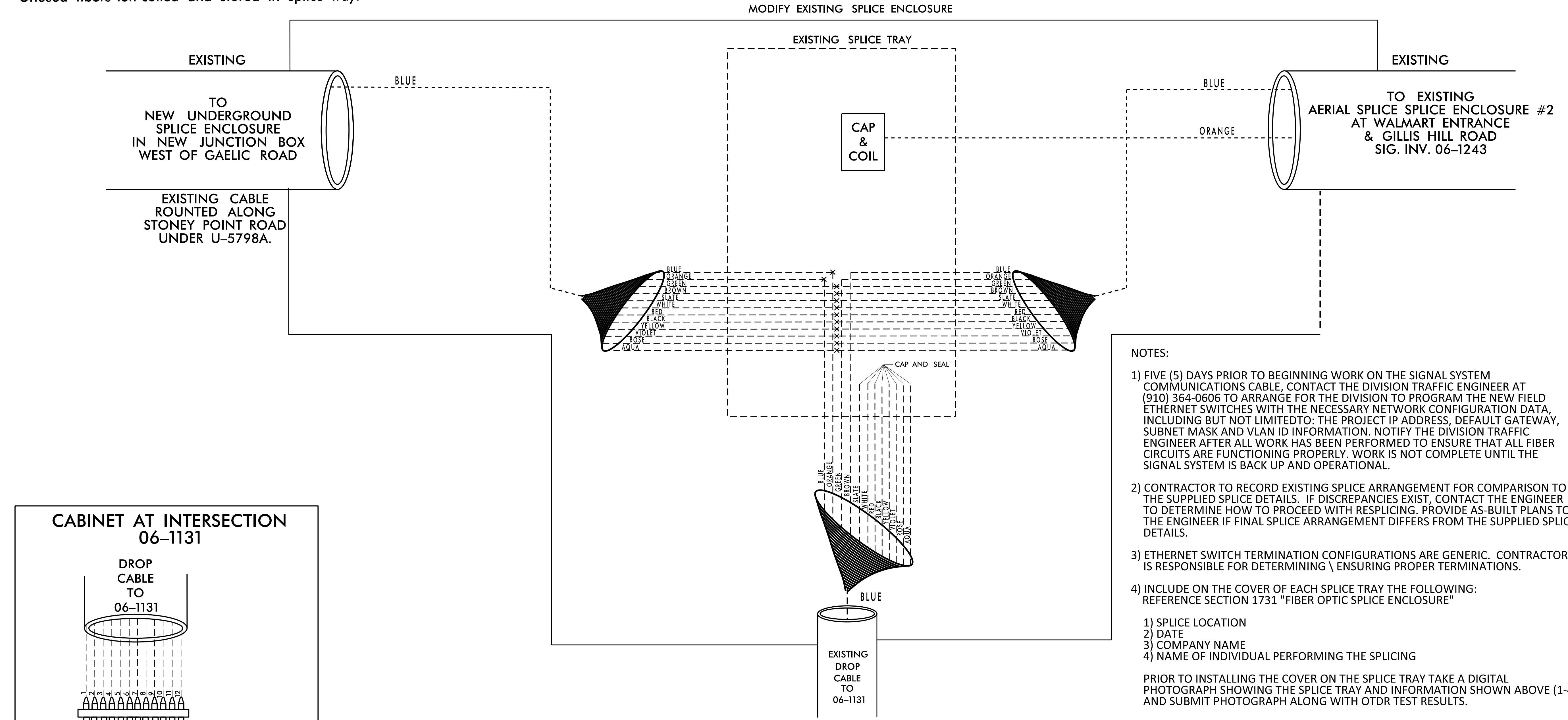
 <small>750 N. Greenfield Pkwy., Garner, NC 27529</small>	<b>SPLICE PLANS</b>		 <small>SEAL 042578</small> <small>DATE: 02/02/2022</small>
	DIVISION 6 CUMBERLAND CO. FAYETTEVILLE PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Gruen</i> PREPARED BY: H.T. BERGGREN, EI 99FB8BEF78A4FA...		
REVISIONS: _____ INIT.: _____ DATE: _____		DATE: _____	

**FAYETTEVILLE SIGNAL SYSTEM  
EXISTING AERIAL SPLICE ENCLOSURE  
(SE#3-INSTALLED UNDER U-5798A)  
GILLIS HILL ROAD &  
AT STONEY POINT ROAD  
SIG. INV. 06-1131**

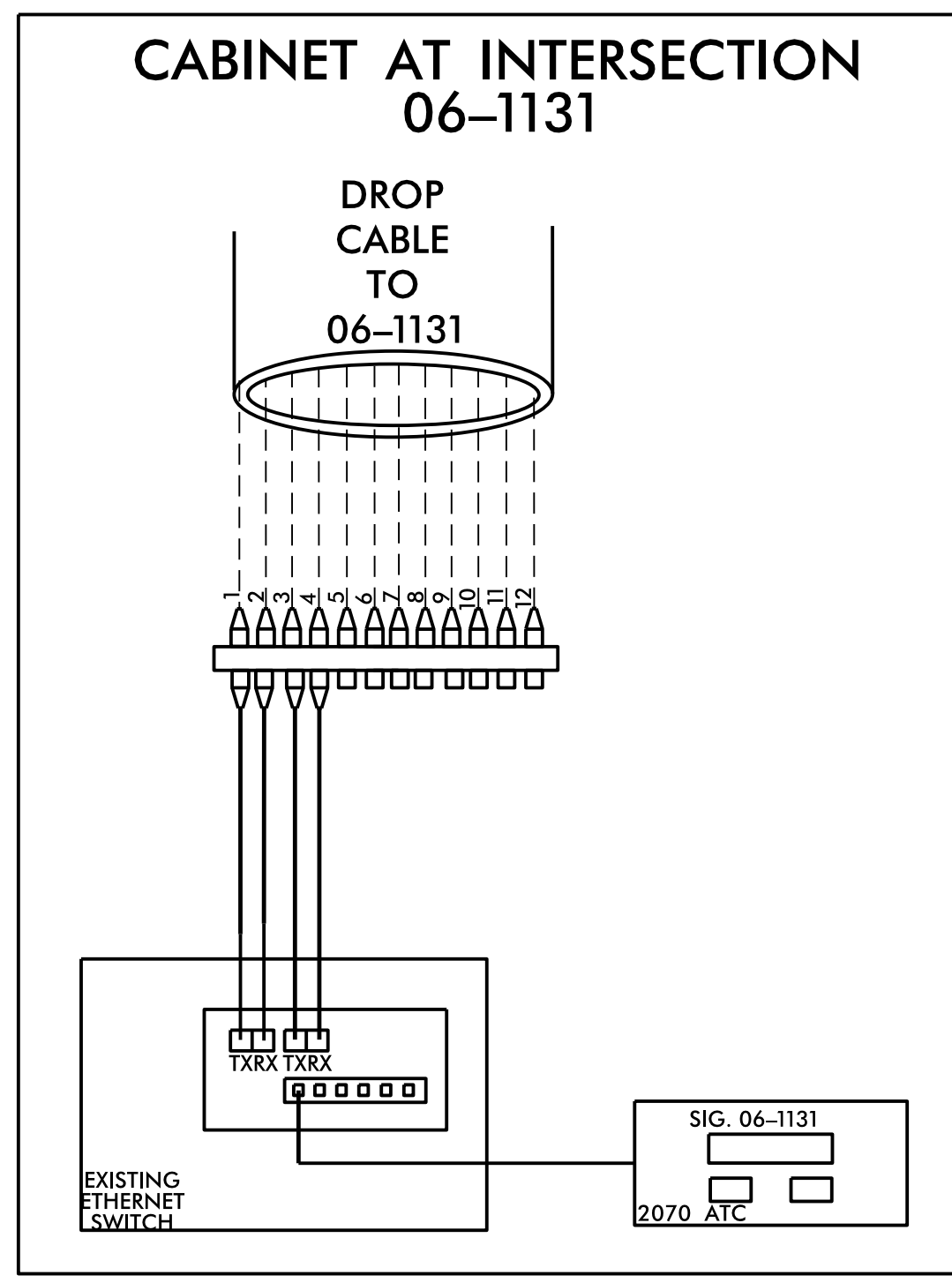
Notes:  
Unused fibers left coiled and stored in splice tray.

**LEGEND**

COLOR CODE TIA/EIA 598-A		X - FUSION SPLICE INDIVIDUAL FIBER
(1) BLUE	(7) RED	
(2) ORANGE	(8) BLACK	[BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE AS NOTED
(3) GREEN	(9) YELLOW	
(4) BROWN	(10) VIOLET	
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	



- NOTES:
- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM COMMUNICATIONS CABLE, CONTACT THE DIVISION TRAFFIC ENGINEER AT (910) 364-0606 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK HAS BEEN PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
  - 2) CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
  - 3) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
  - 4) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:  
REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"  
1) SPLICE LOCATION  
2) DATE  
3) COMPANY NAME  
4) NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.



**FINAL PHASE**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p><b>SPLICE PLANS</b></p>		
	<p>DIVISION 6 CUMBERLAND CO. FAYETTEVILLE</p> <p>PLAN DATE: JANUARY 2022 REVIEWED BY: <i>G. Crum</i></p> <p>PREPARED BY: H.T. BERGGREN, EI</p>	<p>REVISIONS</p>	
<p>SCALE: 0 N/A</p>	<p>DATE: 02/02/2022</p>		<p>Matthew T. Carlisle</p>