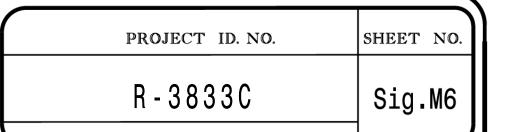


Strain Pole Attachments

NOTE:

- 1. Strap all signal cables to the side of the pole with $\sqrt[3]{4}$ " 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.



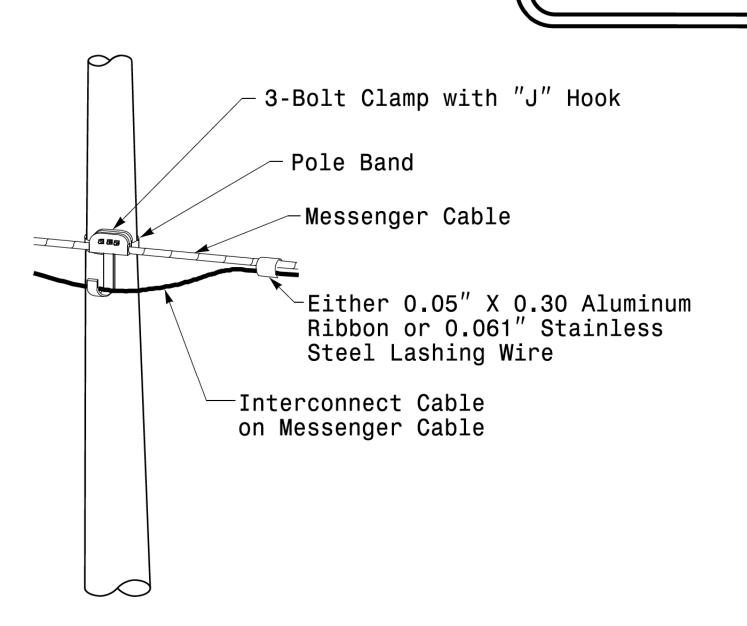
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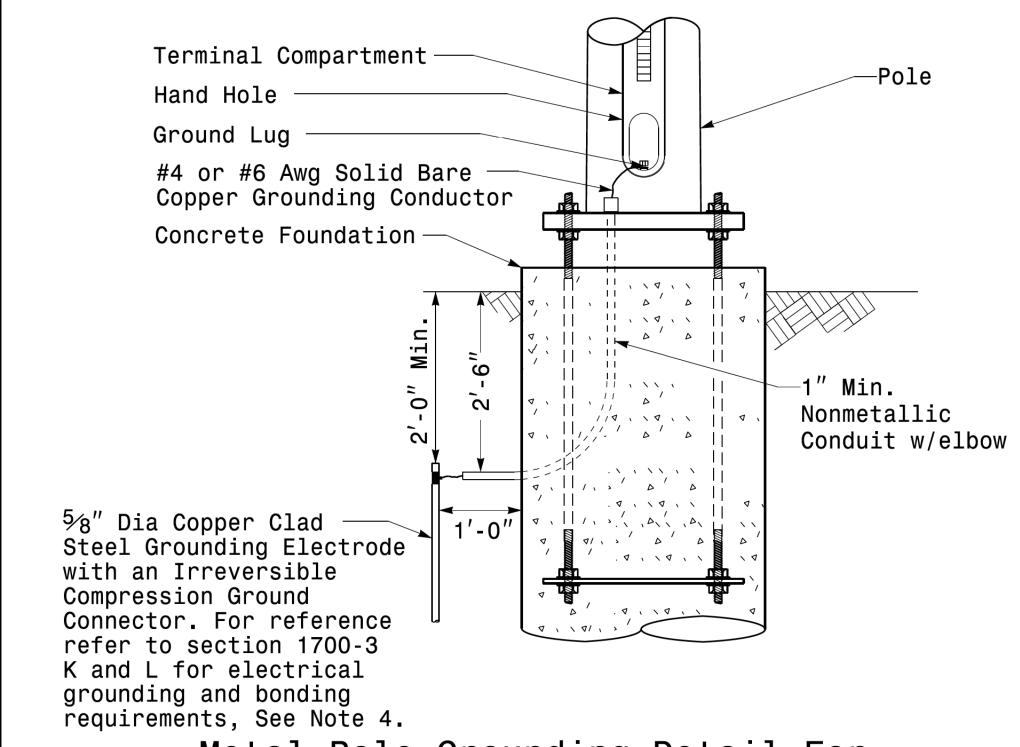
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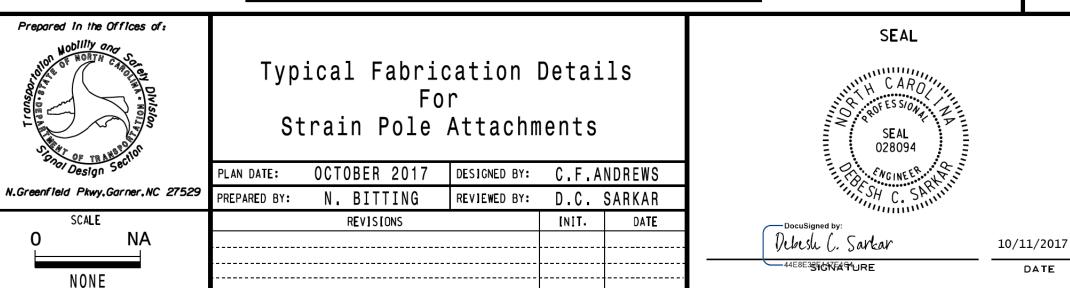
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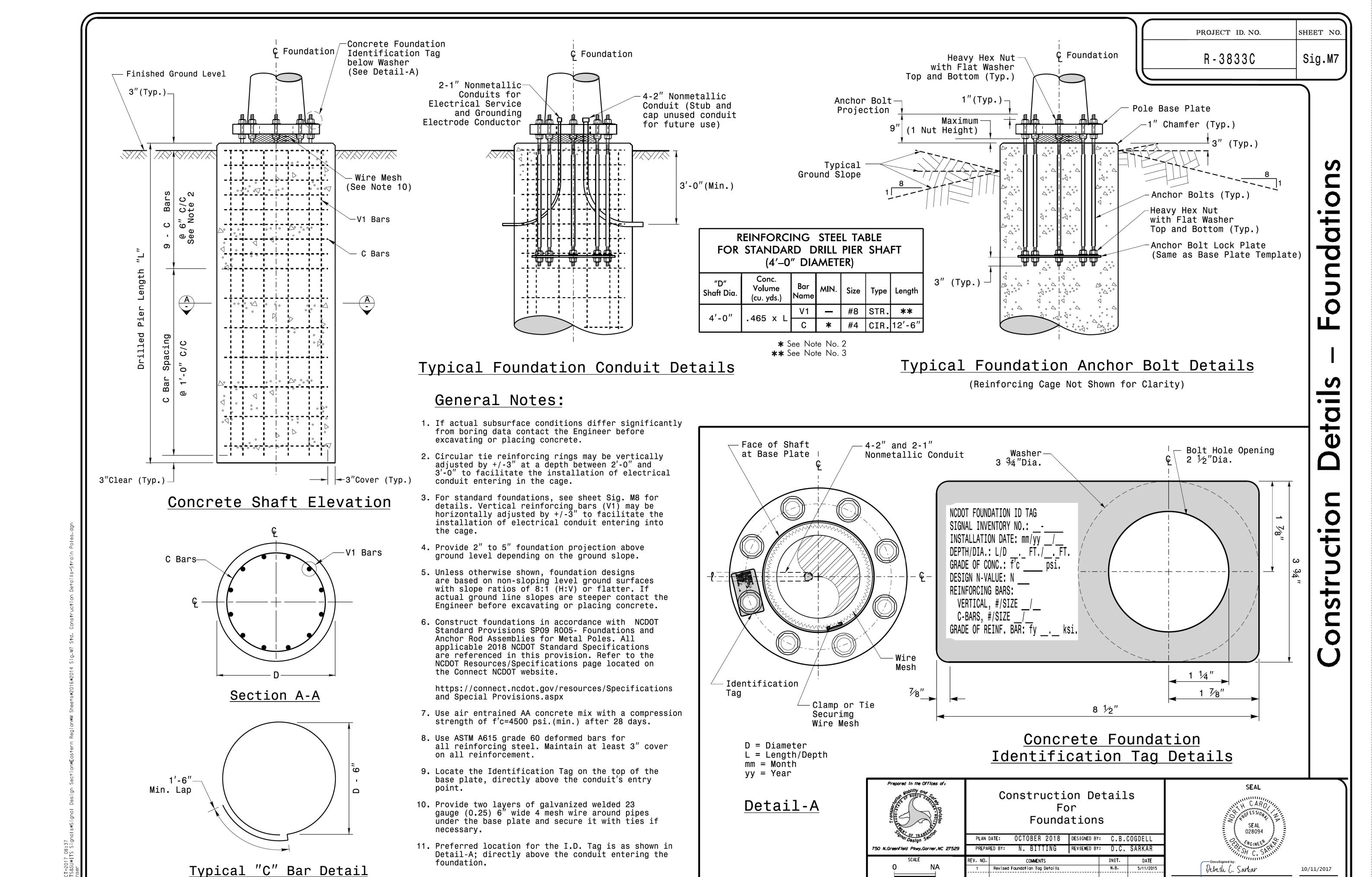


Attachment of Cable to <u>Intermediate Metal Pole</u>



<u>Metal Pole Grounding Detail For</u> Strain Pole and Mast Arm





NONE

10/11/2017

D		9	0	9	9	\mathbb{C}
П	-	J	0	J	J	U

PROJECT ID. NO.

Sig.M8 n - 30330

SHEET NO.

Condition Soil Foundation-All <u>o</u>

		STANDARD								STANDARD FOUNDATIONS						Reinforcement			
		STRAIN POLES							48" Diameter Drilled Pier Length (L) – Feet						Komiorcomoni				
			Case No.	Pole Height (Ft.)	Plate	Reaction Axial (kip)	Shear (kip)	Pole Base 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	Sand Medium N–Value 11–30	Dense N–Value >30	Longit Bar Size (#)	Quantity (ea.)	Stirr Bar Size (#)	Spacing (in.)
F	w_	L	S26L3	26	25	2	11	270	19	13	10	8	17	14.5	12.5	8	12	4	12
	D N T	I G	S30L3	30	25	2	11	300	19.5	13.5	10	8	17.5	15	13	8	14	4	12
	Z O	H	S35L3	35	25	3	11	320	20	13.5	10.5	8	17.5	15	13	8	14	4	12
	N E	H	S30H3	30	29	3	16	450	24.5	16	12	9	21	17.5	15	8	16	4	6
	1	A V Y	S35H3	35	29	4	16	515	26	17	12.5	9.5	22	18.5	16	8	16	4	6
$\ \cdot \ $	W	Ļ	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
	I N D	I G	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
Ш	Z 0	H	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	0 N E	HE	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
	2	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
	W	Ļ	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
	D N T	G H	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
Ш	Z 0	Ϋ	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	N E	>ПІ	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
	3	V Y	S35H2	35	29	4	15	475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6
	Ψ	٦.	S26L1	26	22	2	8	190	16	11.5	8.5	8	15	12.5	11	8	12	4	12
	D D	G H	S30L1	30	22	2	8	205	16.5	11.5	9	8	15	13	11.5	8	12	4	12
	Z	Ϋ́	S35L1	35	22	3	8	230	17	12	9	8	15.5	13.5	11.5	8	12	4	12
	N E	HEA	S30H1	30	25	3	12	320	20.5	13.5	10.5	8	18	15	13.5	8	16	4	6
	4	V Y	S35H1	35	25	4	12	350	21	14	10.5	8.5	18.5	15.5	13.5	8	16	4	6
	W I	Ļ	S26L2	26	23	2	10	245	18	12.5	9.5	8	16.5	14	12	8	12	4	12
	N D	Ġ	S30L2	30	23	2	10	270	18.5	12.5	10	8	16.5	14	12.5	8	12	4	12
Ш	Z 0	Т	S35L2	35	23	3	10	300	19.5	13	10	8	17	14.5	13	8	12	4	12
	N E	HEA	S30H2	30	29	3	15	415	23	15.5	11.5	9	20	17	14.5	8	16	4	6
	5	V Y	S35H2	35	29	4	15	415 475	25	16.5	12	9.5	21	17.5	15.5	8	16	4	6

General Notes:

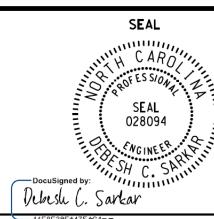
- 1. Values shown in the "Reactions at the Pole Base" column represent the minimum acceptable capacity allowed for design using a design CSR of 1.00.
- 2. Use chairs and spacers to maintain proper clearance.
- 3. For foundation, always use air-entrain concrete mix.

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 $"{\sf N}"$ 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.

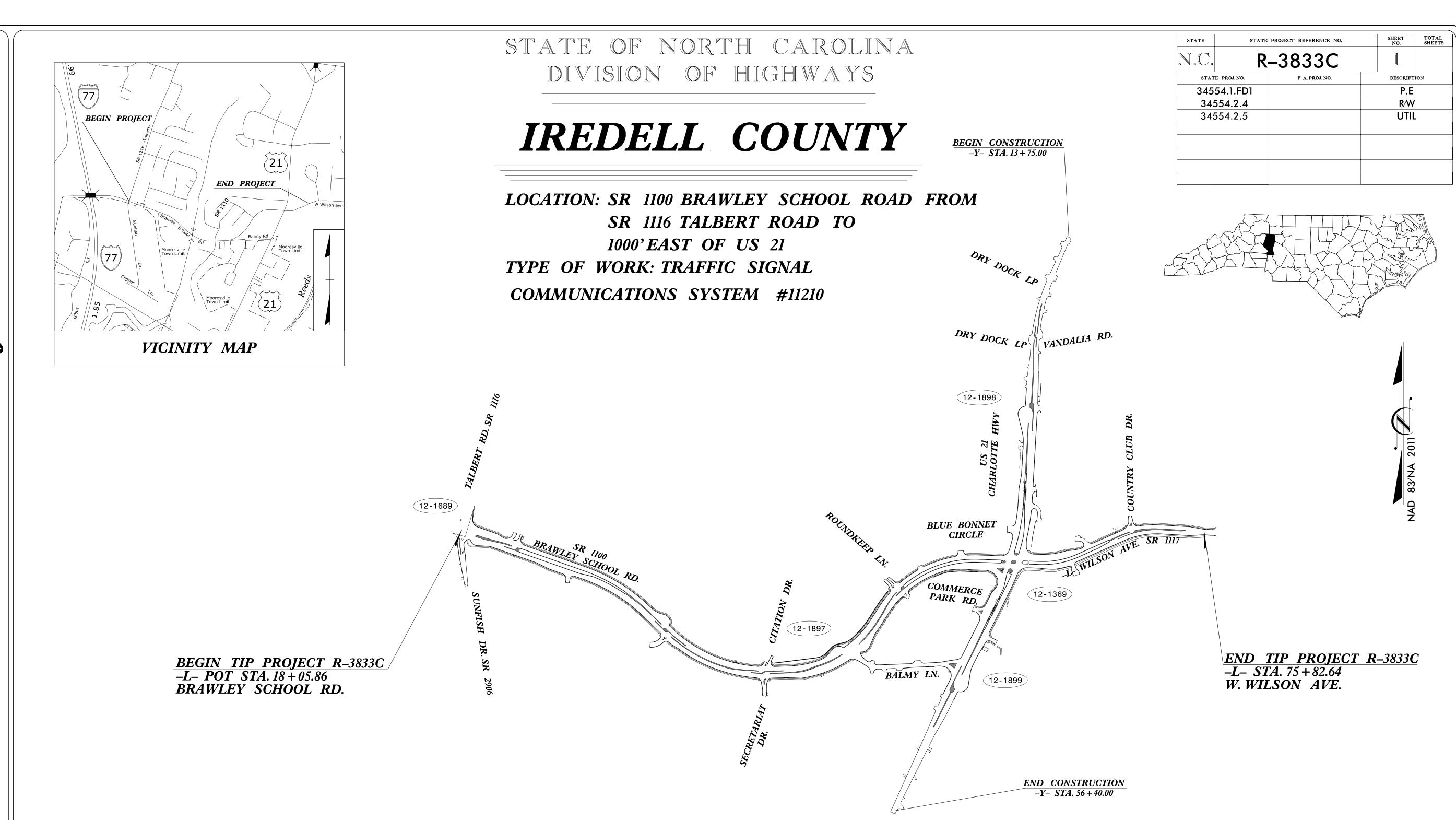
Standard Strain Pole Foundation for All Soil Conditions

PLAN DATE: OCTOBER 2017 DESIGNED BY: C.B. COGDELL



10/11/2017

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



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MOORESVILLE

2018 STANDARD SPECIFICATIONS

PROJECT LENGTH: 1.940 MILES

LETTING DATE: MAY 22nd, 2022

INDEX OF PLANS

SCP-3 thru SCP-7 SCP-8 thru SCP-10 TITLE SHEET

ROADWAY STANDARD DRAWINGS THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD

DRAWINGS" ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C. DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS.

STD. No.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURE
1101.04	TEMPORARY SHOULDER CLOSURE
1715.01	UNDERGROUND CONDUIT - TRENCHING
1716.01	JUNCTION BOXES
1721.01	GUY ASSEMBLIES
1730.01	FIBER OPTIC CABLE - SPARE CABLE STORAGE
1751.02	CONTROLLERS AND CABINETS - POWER, GROUND, AND AUXILIARY

NCDOT CONTACT: TRANSPORTATION SAFETY AND MOBILITY INTELLIGENT TRANSPORTATION SYSTEMS SECTION

Gregory Green Signal Communication Project Engineer

Heidi Berggren, EIT Signal Communication Project Design Engineer



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Senior Transportation Engineer



CONSTRUCTION NOTES AND LEGEND CABLE ROUTING PLANS FIBER-OPTIC SPLICING DETAILS

(XX-XXXX)

SIGNAL INVENTORY No.

LEGEND

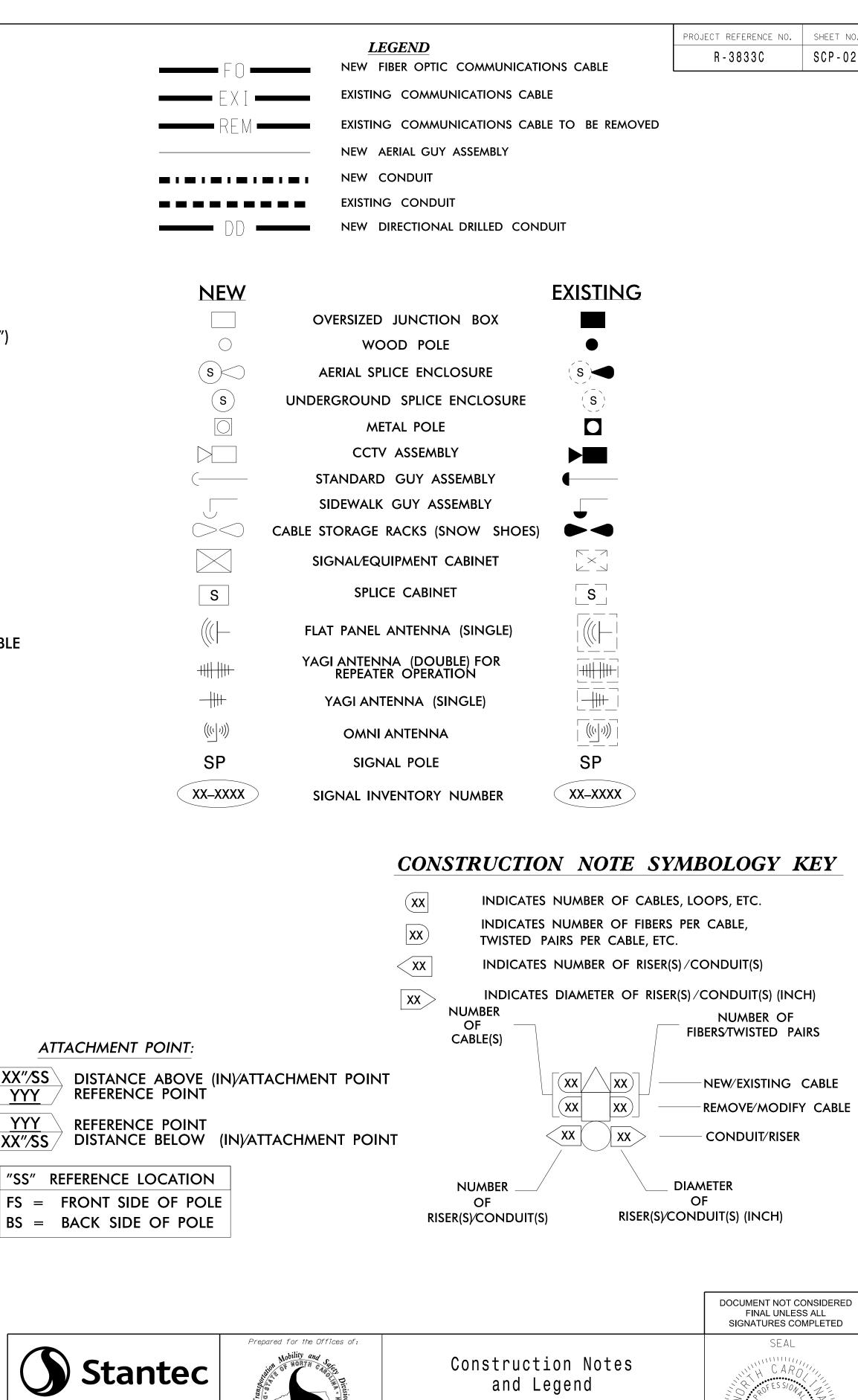
Stantec Larry Overn, PE, PTOE Stantec Consulting Services Inc.
801 Jones Franklin Rd-Suite 300
Raleigh, NC 27606
Tel. 919.851.6866
Fax. 919.851.7024

WWW stantec com

Senior Transportation Designer Ryan Costello, EIT Transporation Engineer In Training

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 24" x
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
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 ST
52A	100 FEET OF CABLE INSTALL DELINEATOR MARKER
52B	INSTALL JUNCTION BOX MARKER
53A	STORE 30 FEET OF COMMUNICATIONS CABLE
53B	STORE 50 FEET OF EACH 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 EQUIPMENT CABINET DISCONNECT
60	BOND TRACER WIRE TO EQUIPMENT
61	GROUND BUS DO NOT BOND TRACER WIRE TO
62	EQUIPMENT GROUND BUS BOND RISER AND MESSENGER CABLE
63	TO POLE GROUND 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

SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24") EXISTING COMMUNICATIONS AND MESSENGER CABLE CABLE STORAGE RACKS (SNOW SHOES) AND STORE





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N.T.S.

Division 12 Catawba and Iredell Co. Mooresville May 2022 REVIEWED BY: E D Harris PREPARED BY: R J Costello REVIEWED BY: L Overn REVISIONS INIT. DATE

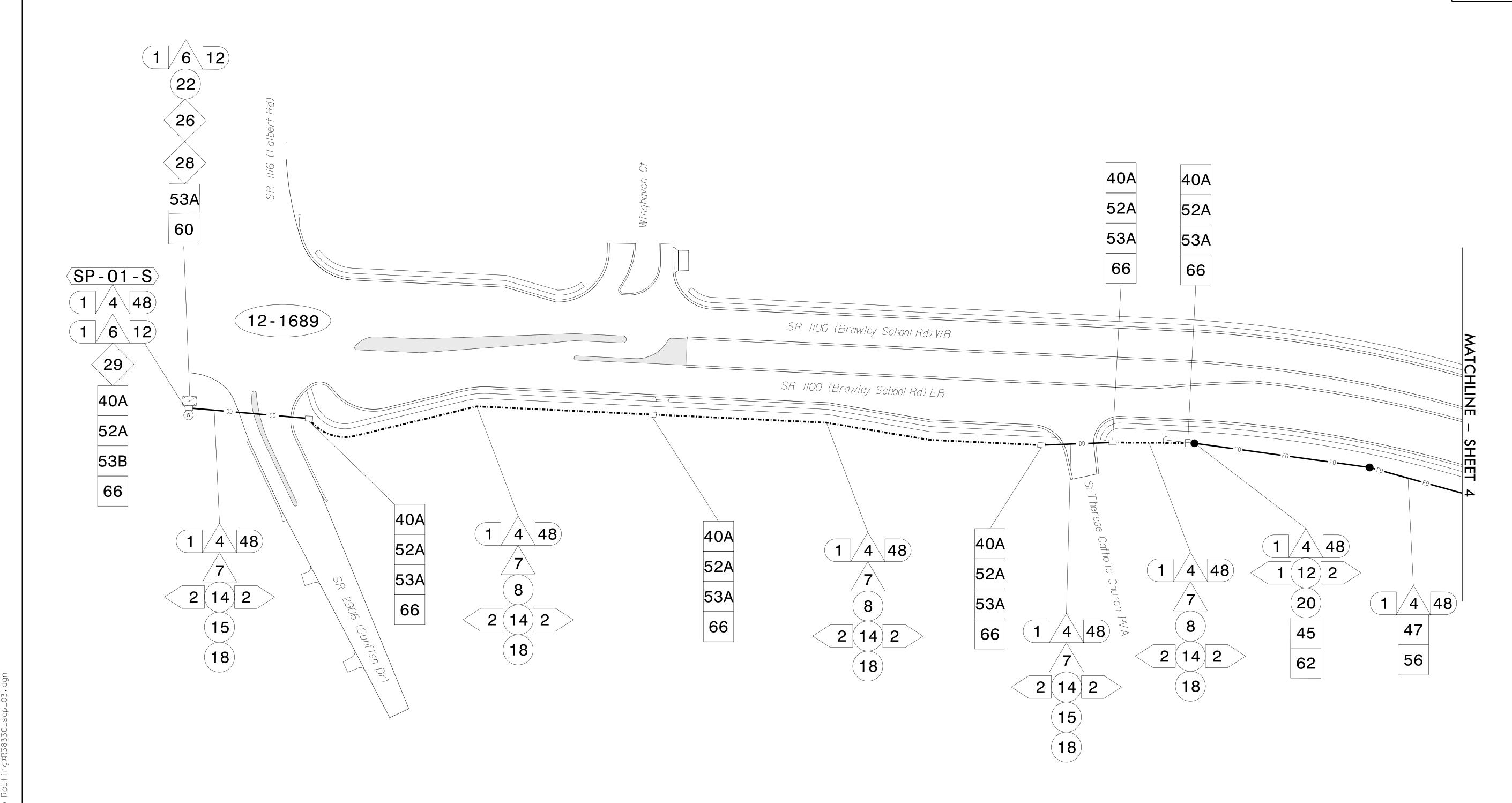
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CADD Filename:

DATE

R-3833C SCP-03



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 12 TRAFFIC ENGINEER AT (980) 552-4214 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 IS PERFORMÉD TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
- 2) ALL CABLE ATTACHMENT POINTS ARE 40" BELOW POWER, FRONT SIDE OF POLE (FS) UNLESS OTHERWISE NOTED.
- 3) CELL MODEM FOR MASTER SIGNAL SYSTEM CABINET WILL BE PROVIDED TO CONTRACTOR BY NCDOT. CONTRACTOR MUST CONTACT NCDOT DIVISION 12 TRAFFIC ENGINEER, BYRON ENGLE AT 980-552-4214 SIX (6) WEEKS PRIOR TO INSTALLATION TO ALLOW LEAD TIME FOR ACQUIRING DEVICES.



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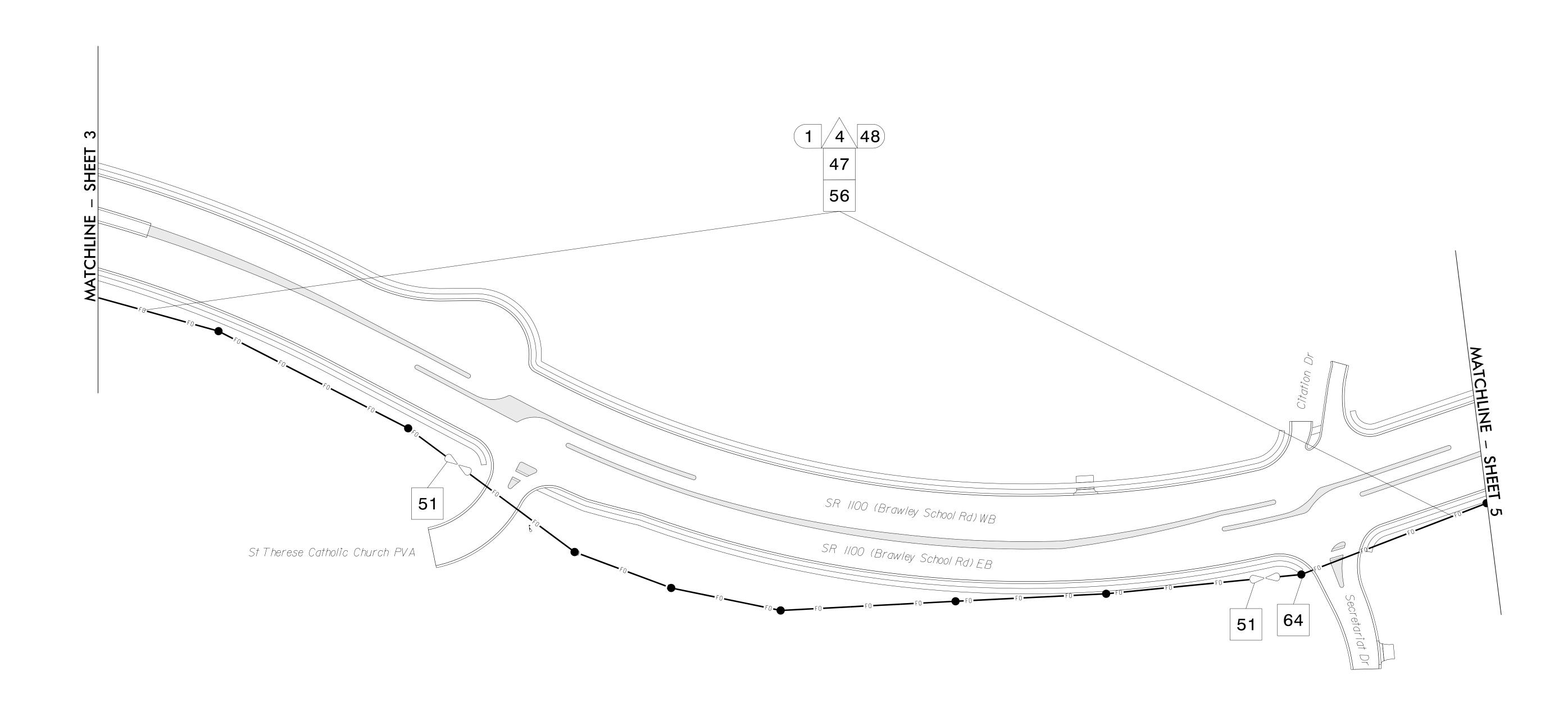
1"=100'

SR 1100 (Brawley School Road) Cable Routing Plan

	Division	12		Catawba	and	Iredell (0.	Moor	esville	
	PLAN DATE:		Má	ay 2022		REVIEWED BY	':	E D Ha	rris	
27529	PREPARED BY:	R	J	Costell	LO	REVIEWED BY	′:	L Ov	ern	
		RE	VIS	SIONS				INIT.	DATE	r
100										

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R-3833C SCP-04

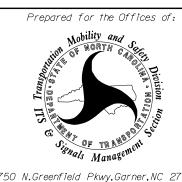


1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 12 TRAFFIC ENGINEER AT (980) 552-4214 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.

2) ALL CABLE ATTACHMENT POINTS ARE 40" BELOW POWER, FRONT SIDE OF POLE (FS) UNLESS OTHERWISE NOTED.



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1"=100'

SR 1100 (Brawley School Road) Cable Routing Plan

	Division 1:	12 Catawba ar	nd Iredell Co.	Moor	esville
	PLAN DATE:	May 2022	REVIEWED BY:	E D Hai	rris
27529	PREPARED BY:	R J Costello	REVIEWED BY:	L Ove	rn
		REVISIONS		INIT.	DATE
100					

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 11/2/2022

PROJECT REFERENCE NO. R-3833C SCP-05 1 /4 48 56 45 1 6 12 1 (12) 2 45 52A 1 /6 12 53B 66 53B 66 (14) 2 (18)

> SEAL 045933

> > 11/2/2022

CADD Filename:

SR 1100 (Brawley School Road)/

US 21 (Charlotte Hwy)

Cable Routing Plan

Division 12 Catawba and Iredell Co. Mooresville
PLAN DATE: May 2022 REVIEWED BY: E D Harris

L Overn

INIT. DATE

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: R J Costello REVIEWED BY:

1"=100'

REVISIONS

Stantec

Stantec Consulting Services Inc.

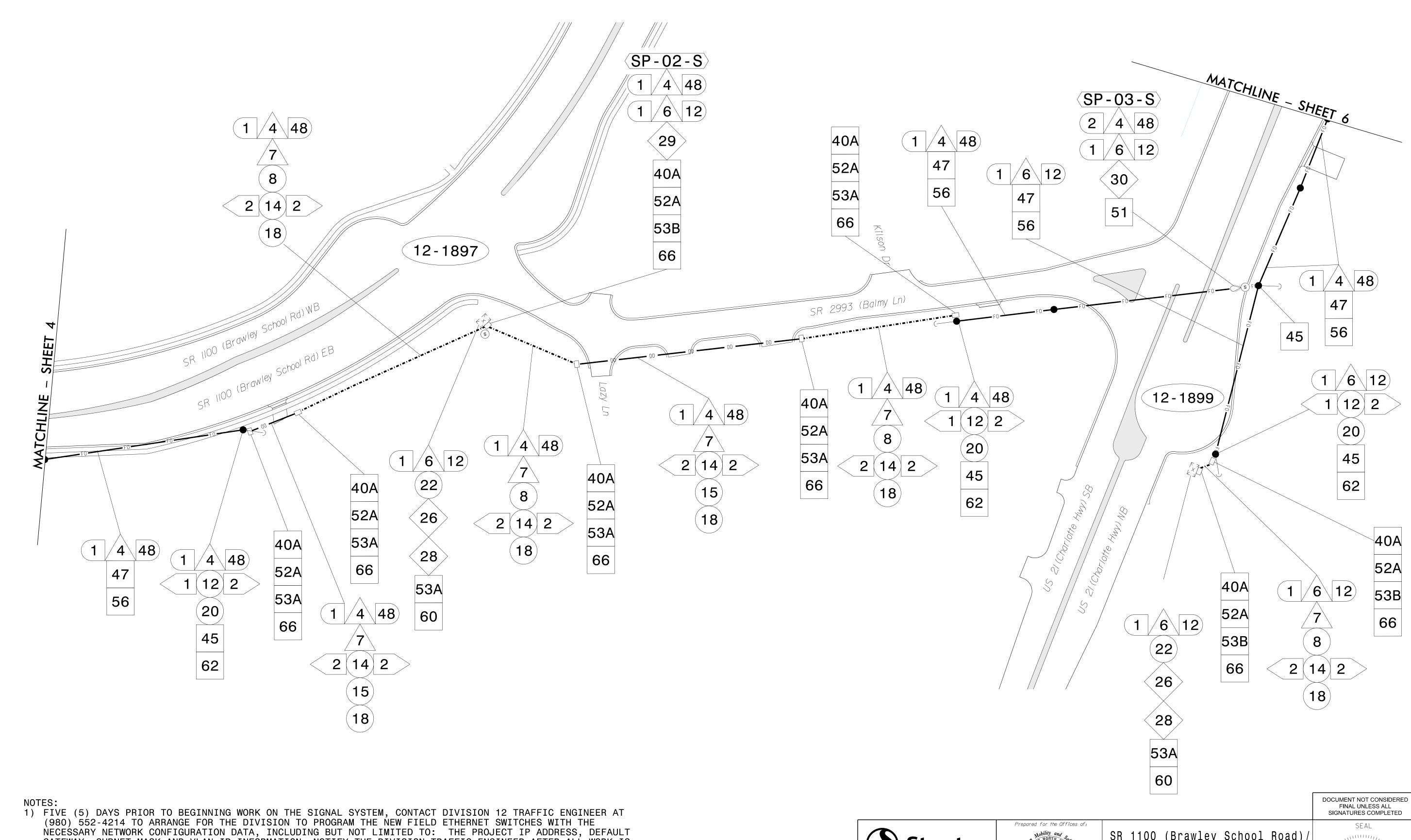
Raleigh, NC 27606

Tel. (919) 851-6866

Fax. (919) 851-7024

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801 Jones Franklin Road-Suite 300



GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE

2) ALL CABLE ATTACHMENT POINTS ARE 40" BELOW POWER, FRONT SIDE OF POLE (FS) UNLESS OTHERWISE NOTED.

SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.

PROJECT REFERENCE NO. R-3833C SCP-06 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL US 21 (Charlotte Hwy)

SEAL

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11/2/2022

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CADD Filename:

Cable Routing Plan

Division 12 Catawba and Iredell Co. Mooresville
PLAN DATE: May 2022 REVIEWED BY: E D Harris

L Overn

INIT. DATE

750 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY: R J Costello REVIEWED BY:

REVISIONS

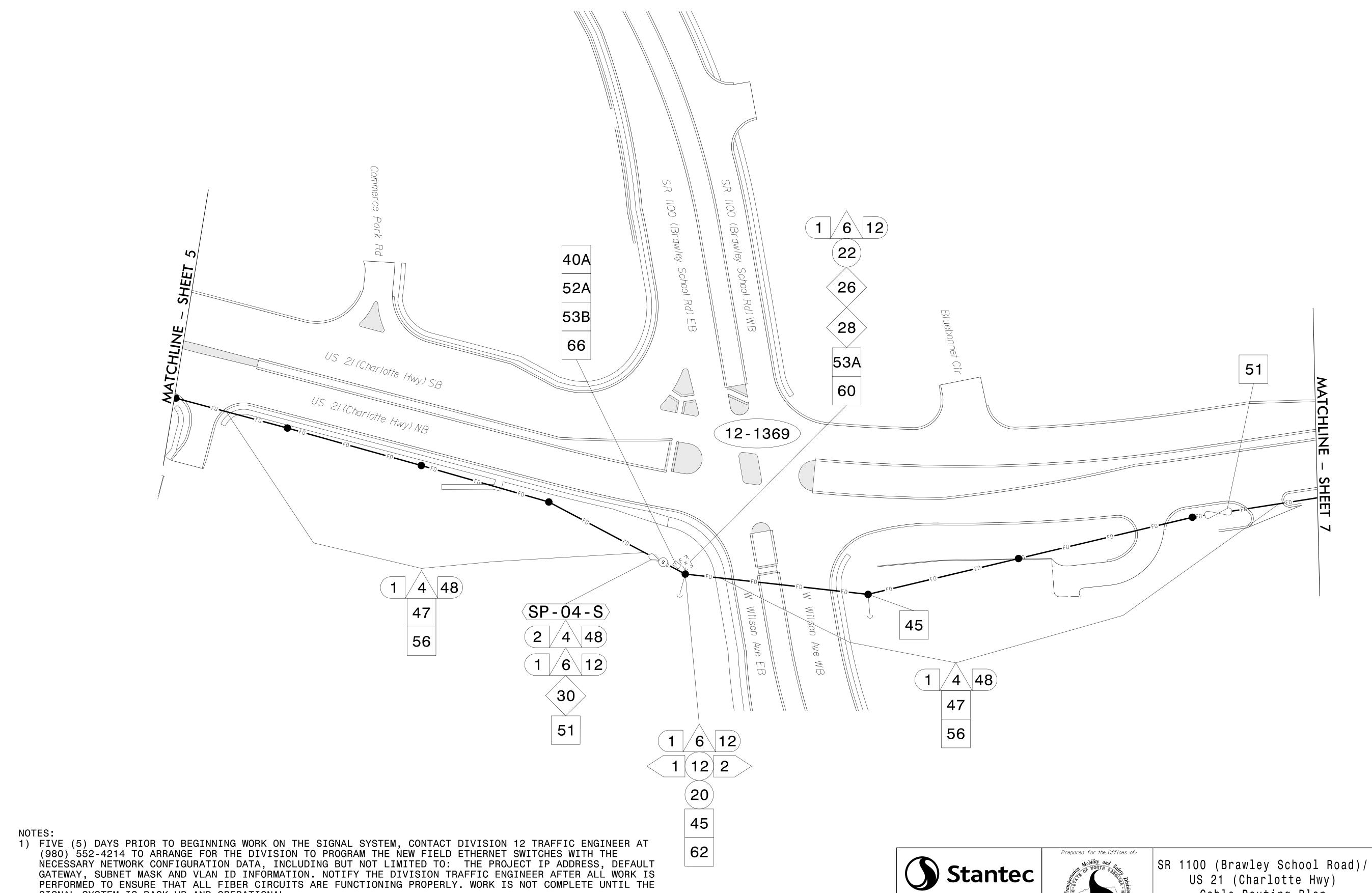
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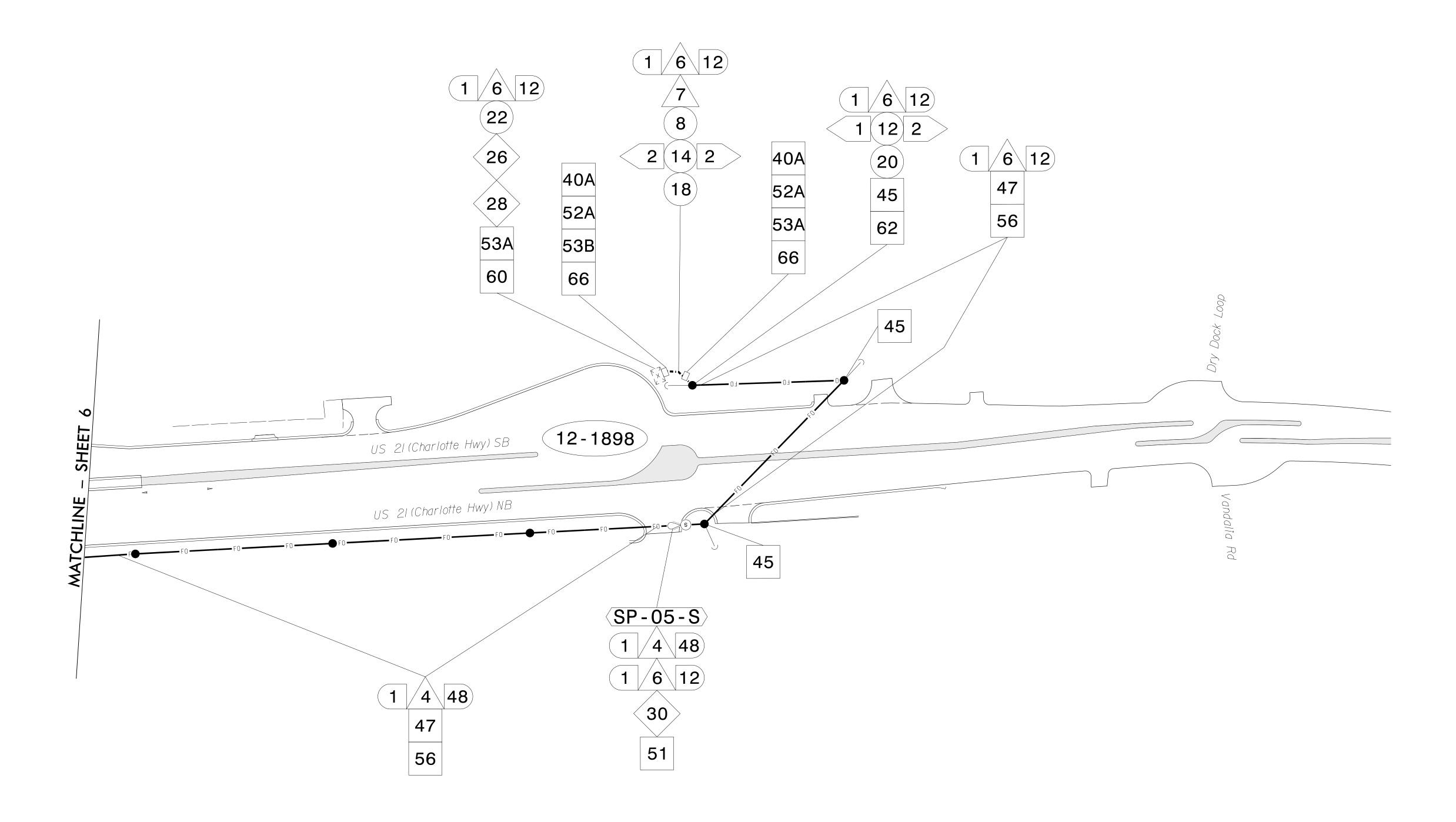
801 Jones Franklin Road-Suite 300 Raleigh, NC 27606



SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.

2) ALL CABLE ATTACHMENT POINTS ARE 40" BELOW POWER, FRONT SIDE OF POLE (FS) UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO. R-3833C SCP-07



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 12 TRAFFIC ENGINEER AT (980) 552-4214 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 IS 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.



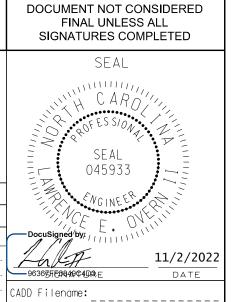
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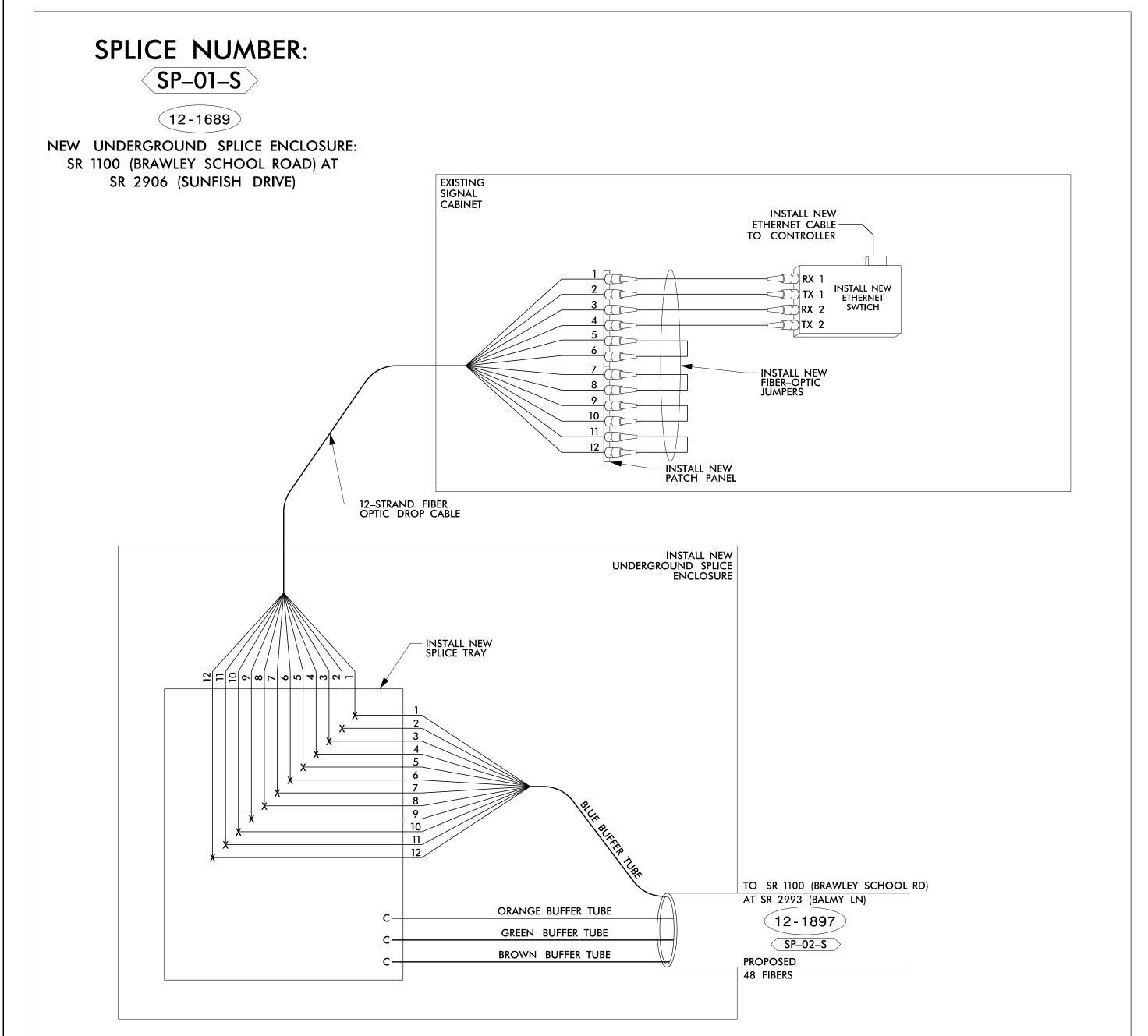


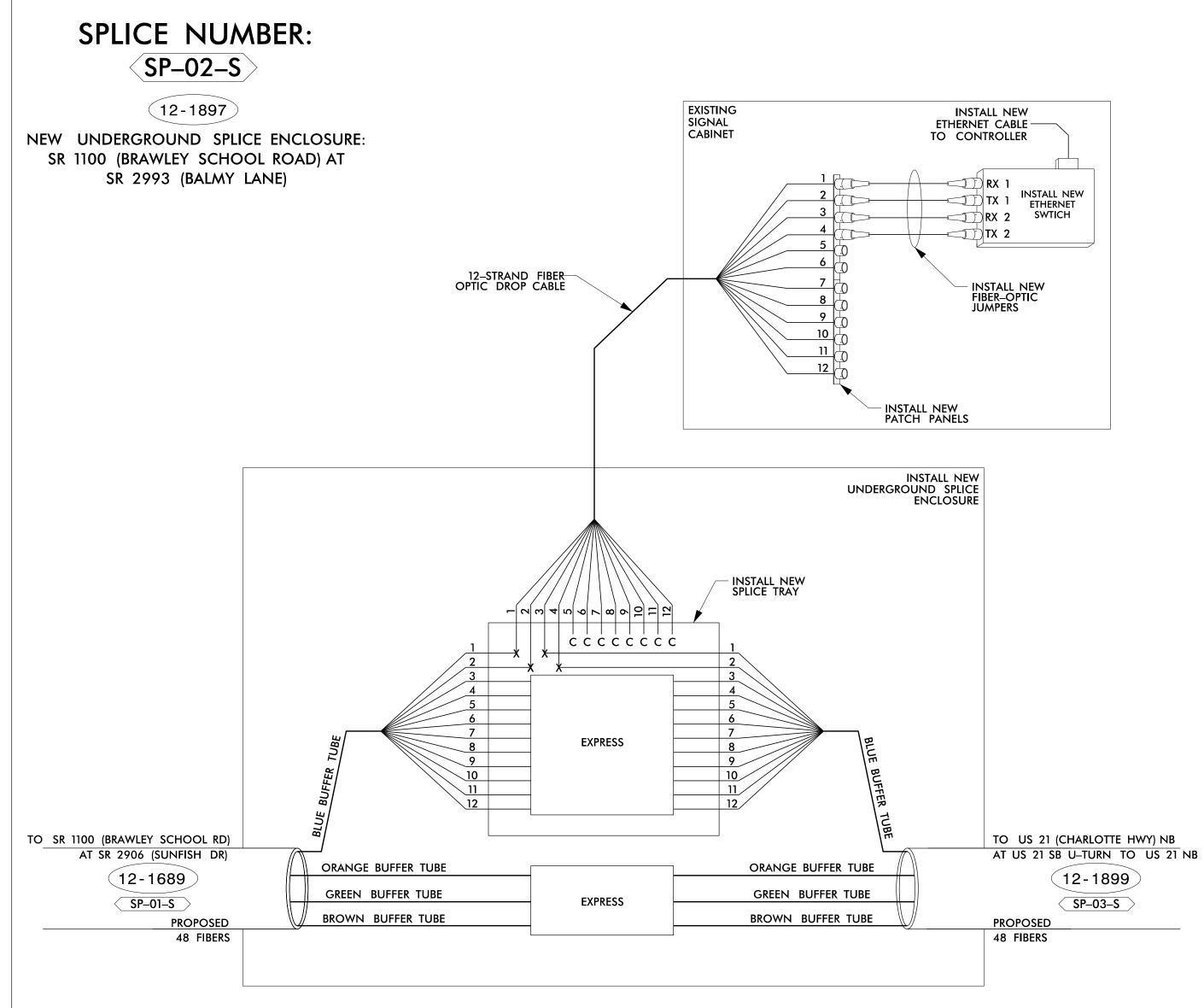
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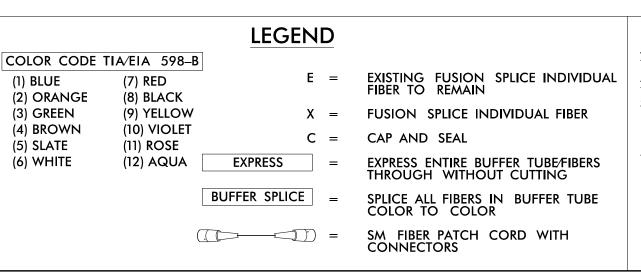
US 21 (Charlotte Hwy) Cable Routing Plan

Division 12 Catawba and Iredell Co. Mooresville
PLAN DATE: May 2022 REVIEWED BY: E D Harris 750 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY: R J Costello REVIEWED BY: L Overn REVISIONS INIT. DATE









1. UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.

ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.

FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE NCDOT DIVISION 12 TRAFFIC ENGINEER BYRON ENGLE, AT 980–552–4214 TO ARRANGE FOR NCDOT 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 NCDOT DIVISION 12 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS UP AND OPERATIONAL. INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

SPLICE LOCATION
DATE
COMPANY NAME
NAME OF INDIVIDUAL PERFORMING THE SPLICE

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.



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SR 1100 (Brawley School Road)/ US 21 (Charlotte Hwy) Fiber Optic Splice Details

Division 12 Iredell County Mooresvill
PLAN DATE: March 2022 REVIEWED BY: E D Harris Mooresville L Overn REVIEWED BY:

CAROSEAL 045933 96367FF684964D3... SIGNATURE 11/2/2022 CADD Filename:

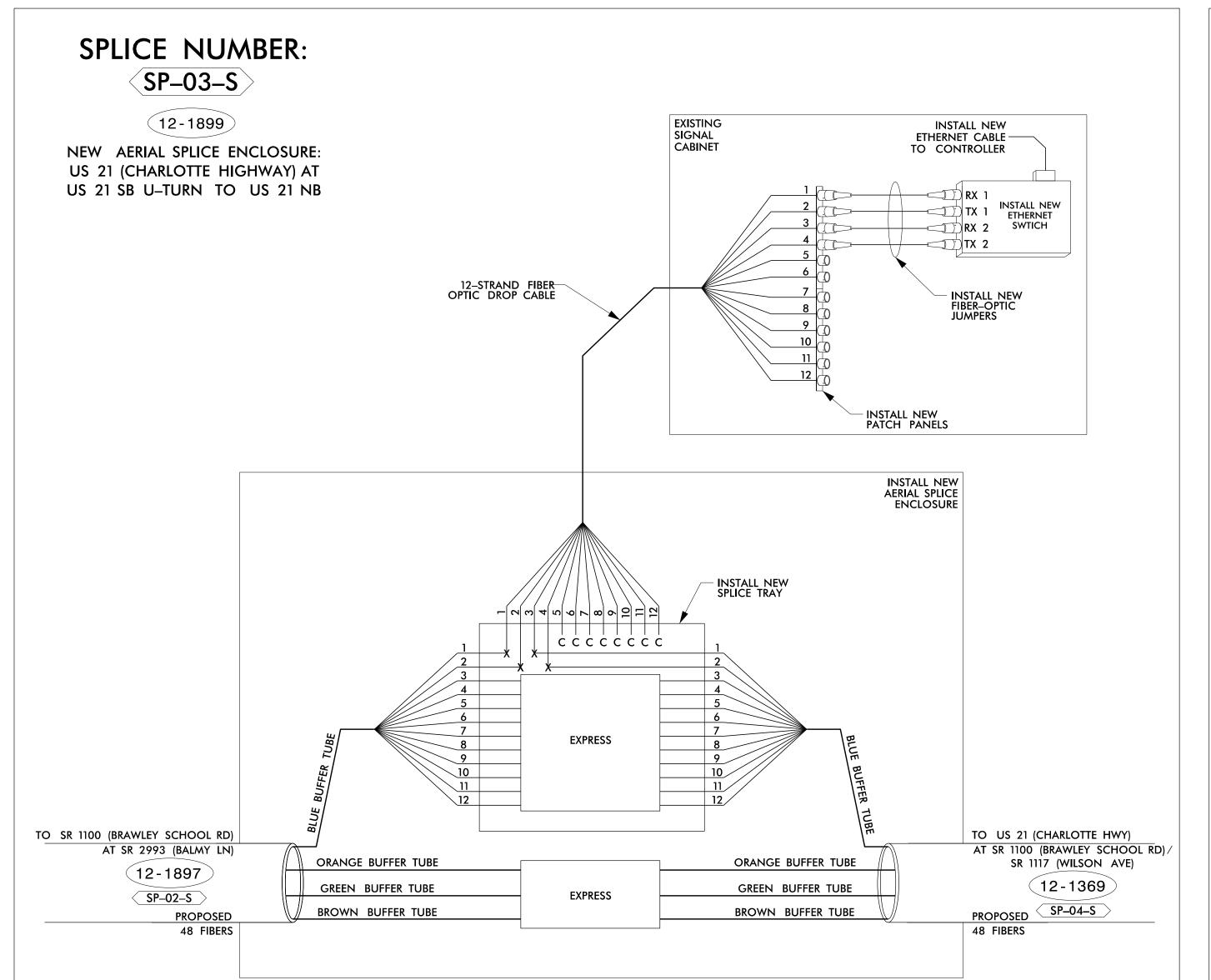
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

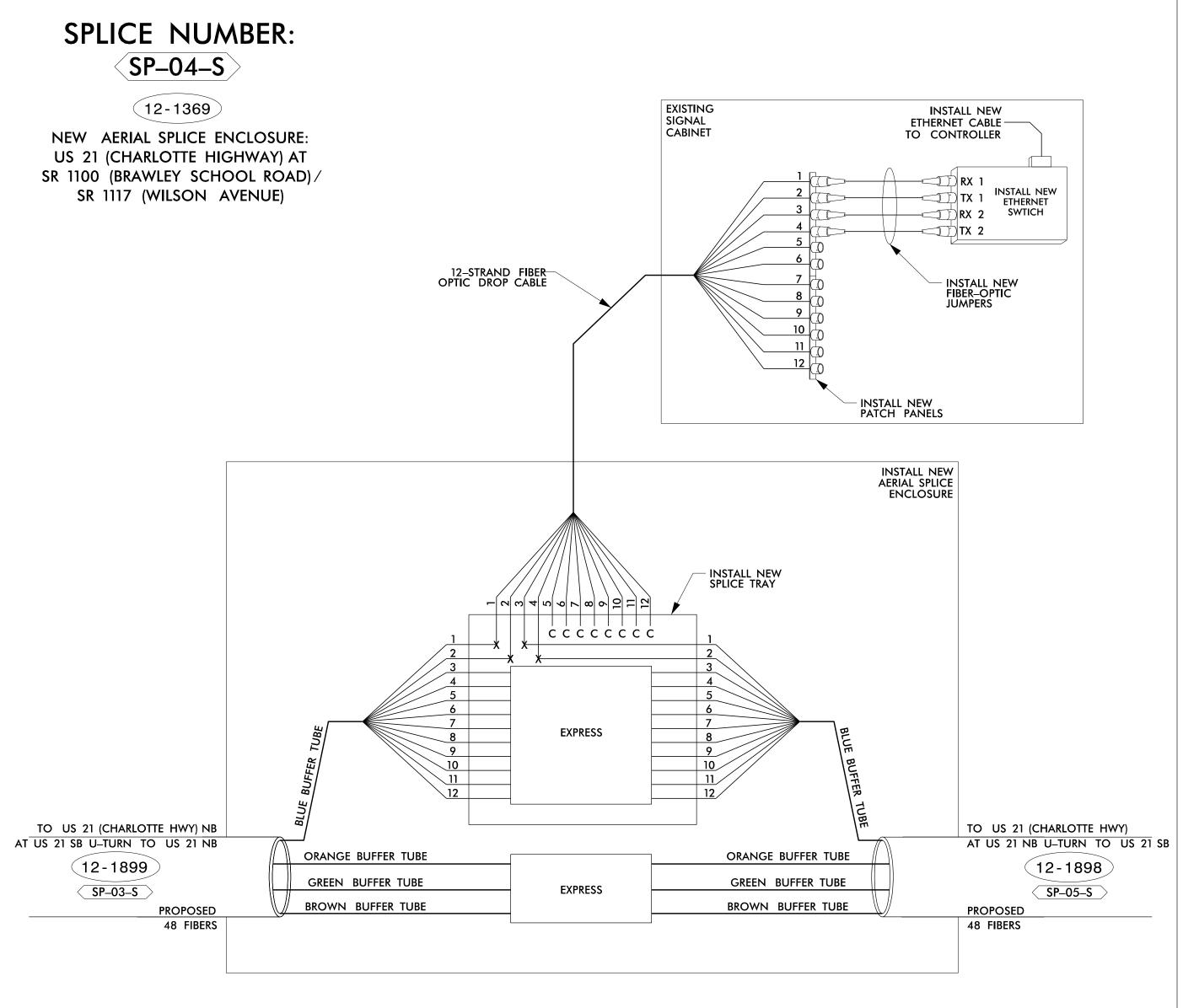
SEAL

750 N.Greenfield Pkwy,Garner,NC 27529 PREPARED BY: R M MUNCEY REVISIONS INIT. DATE N.T.S.

PROJECT REFERENCE NO.







LEGEND

BUFFER SPLICE =

=

COLOR CODE TIA/EIA 598-B (1) BLUE (7) RED (2) ORANGE (8) BLACK (3) GREEN (9) YELLOW (4) BROWN

(10) VIOLET (11) ROSE (12) AQUA **EXPRESS**

EXISTING FUSION SPLICE INDIVIDUAL FIBER TO REMAIN X = FUSION SPLICE INDIVIDUAL FIBER C = CAP AND SEAL

EXPRESS ENTIRE BUFFER TUBE/FIBERS THROUGH WITHOUT CUTTING SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR

SM FIBER PATCH CORD WITH CONNECTORS

1. UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE NCDOT DIVISION 12 TRAFFIC ENGINEER BYRON ENGLE, AT 980–552–4214 TO ARRANGE FOR NCDOT 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 NCDOT DIVISION 12 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS UP AND OPERATIONAL.

INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

SPLICE LOCATION
DATE
COMPANY NAME
NAME OF INDIVIDUAL PERFORMING THE SPLICE

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.



License No. F-0672

Stantec Consulting Services Inc. 801 Jones Franklin Road-Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com



N.T.S.

SR 1100 (Brawley School Road)/ US 21 (Charlotte Hwy)

2 Iredell County Mooresvill
March 2022 REVIEWED BY: E D Harris REVIEWED BY: L Overn 750 N.Greenfield Pkwy,Garner,NC 27529 | PREPARED BY: R M MUNCEY

CARN SEAL 045933 96367FF6849C4D3... SIGNATURE 11/2/2022 CADD Filename:

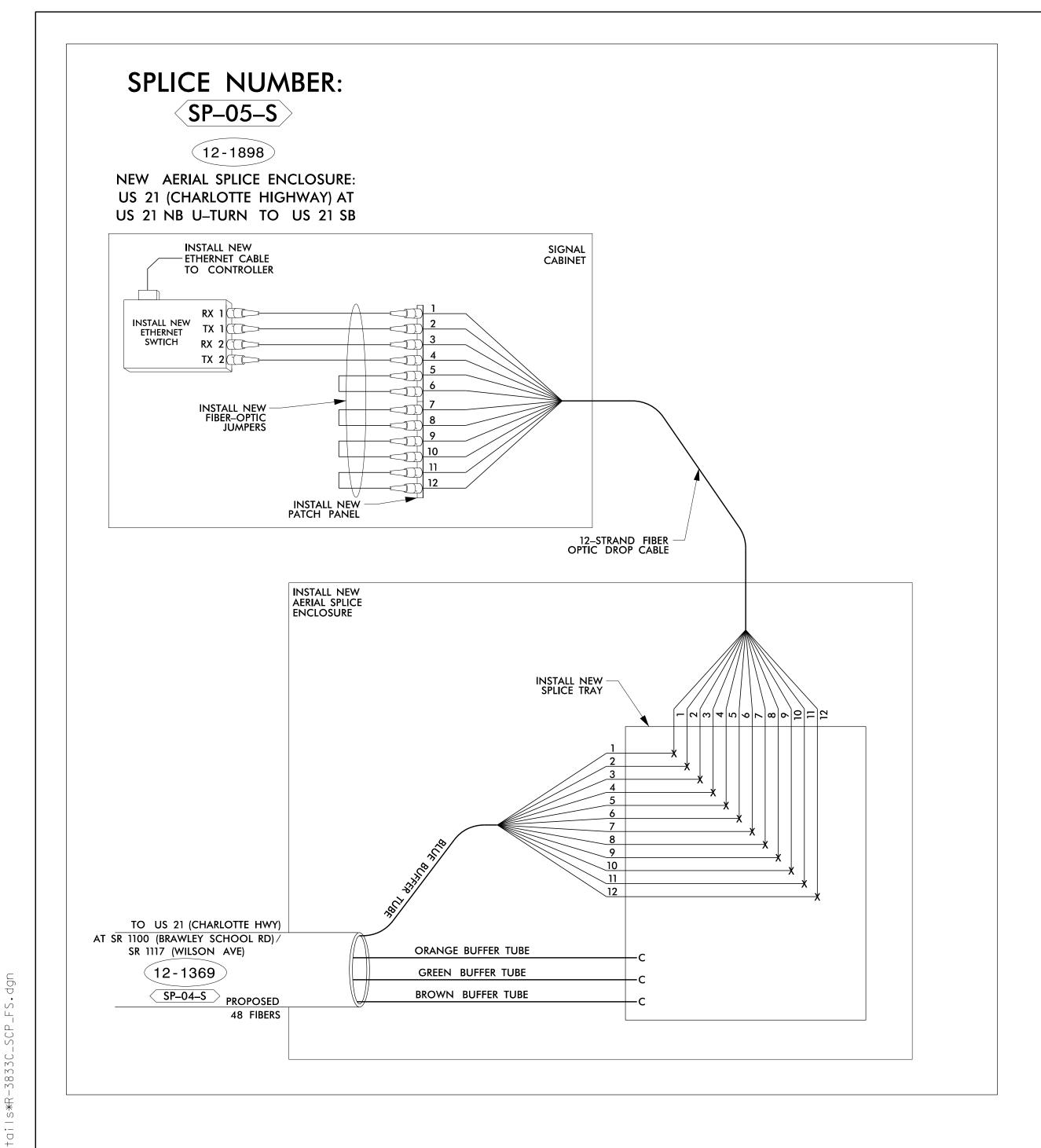
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

(5) SLATE

(6) WHITE

Fiber Optic Splice Details Mooresville INIT. DATE



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SR 1100 (Brawley School Road)/ US 21 (Charlotte Hwy) Fiber Optic Splice Details

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FINAL UNLESS ALL SIGNATURES COMPLETED SEAL CARN SEAL 045933 96367FF6849C4D3... SIGNATURE 11/2/2022 CADD Filename:

DOCUMENT NOT CONSIDERED

(1) BLUE

(2) ORANGE

(3) GREEN

(4) BROWN

(5) SLATE

(6) WHITE

COLOR CODE TIA/EIA 598-B

(7) RED

(8) BLACK

(9) YELLOW

(10) VIOLET

(12) AQUA

(11) ROSE

LEGEND EXISTING FUSION SPLICE INDIVIDUAL FIBER TO REMAIN X = FUSION SPLICE INDIVIDUAL FIBER C = CAP AND SEAL

EXPRESS ENTIRE BUFFER TUBE/FIBERS THROUGH WITHOUT CUTTING EXPRESS

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR SM FIBER PATCH CORD WITH CONNECTORS

1. UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.

2. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE NCDOT DIVISION 12 TRAFFIC ENGINEER BYRON ENGLE, AT 980–552–4214 TO ARRANGE FOR NCDOT 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 NCDOT DIVISION 12 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS UP AND OPERATIONAL.

INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

SPLICE LOCATION
DATE
COMPANY NAME
NAME OF INDIVIDUAL PERFORMING THE SPLICE

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.