

SOIL CONDITION

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.)
S26L1	26	22	2	9	210	19.5	12.5	9	6.5	15.5	14.5	13	8	12	4	12
S26L2	26	23	2	10	240	19.5	12	9	6.5	15.5	14.5	13	8	12	4	12
S26L3	26	25	2	11	260	20.5	12	10	8	16	15	13	8	12	4	12
S30L1	30	22	2	9	230	19	11	9	7	15.5	14	12.5	8	12	4	12
S30L2	30	23	2	10	270	20	12	10	8	16	14.5	13	8	12	4	12
S30L3	30	25	2	11	290	21	12	10	8	17	15	13.5	8	12	4	12
S30H1	30	25	3	13	355	23	13	11	9	18	16.5	14.5	8	12	4	12
S30H2	30	29	3	15	405	25	14	11	9	19	17.5	15.5	8	14	4	12
S30H3	30	29	3	16	430	26	15	12	9	20	18	16	8	14	4	6
S35L1	35	22	3	8	260	19.5	12	10	8	15.5	14.5	13	8	12	4	12
S35L2	35	23	3	10	300	21	12	10	8	16.5	15	13.5	8	12	4	12
S35L3	35	25	3	10	320	21.5	13	10	8	17	15.5	14	8	12	4	12
S35H1	35	25	3	12	390	23.5	14	11	9	18	17	15	8	14	4	12
S35H2	35	29	4	14	460	26	15	12	9	20	18	16	8	14	4	6
S35H3	35	29	4	16	495	28.5	15	13.5	10	21.5	19	17	8	14	4	6

48" DIAMETER FOUNDATION CONCRETE VOLUME (CUBIC YARDS) = (0.465) x DRILLED PIER LENGTH

PROJECT I.D. NO.	SHEET NO.
	Sig.M8

GENERAL NOTES:

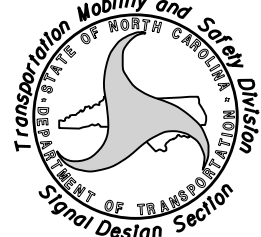
1. VALUES SHOWN IN THE "REACTIONS AT THE POLE BASE" COLUMN REPRESENT THE MINIMUM ACCEPTABLE CAPACITY ALLOWED FOR DESIGN USING A COMBINED FORCE RATIO (CFR) OF 1.00.
2. USE CHAIRS AND SPACERS TO MAINTAIN PROPER CLEARANCE.
3. FOR FOUNDATION, ALWAYS USE AIR-ENTRAINED CONCRETE MIX.

FOUNDATION SELECTION:

1. PERFORM A STANDARD PENETRATION TEST AT EACH PROPOSED FOUNDATION SITE TO DETERMINE "N" VALUE.
2. SELECT THE APPROPRIATE WIND ZONE FROM M1 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 MANUAL FOR DRILLED SHAFTS.

09-01-2024 10:48
S:\1\SSM1\15 Signal\Signal Design Section\Structures\Drawings\2024 Merai Pole Strain Pole Found.-Saturated Soil Condition.dgn
Kedur.fgm

Prepared In the Offices of:



750 N.Greenfield Pkwy,Garner,NC 27529

SCALE

0 1"=10' NA

NONE

Standard Strain Pole Foundation for All Soil Conditions

PLAN DATE: SEPTEMBER 2023

DESIGNED BY: K.C. DURIGON

PREPARED BY: K.C. DURIGON

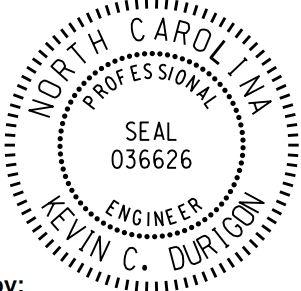
REVIEWED BY: D.C. SARKAR

REVISIONS

INIT.

DATE

SEAL



SEAL 036626

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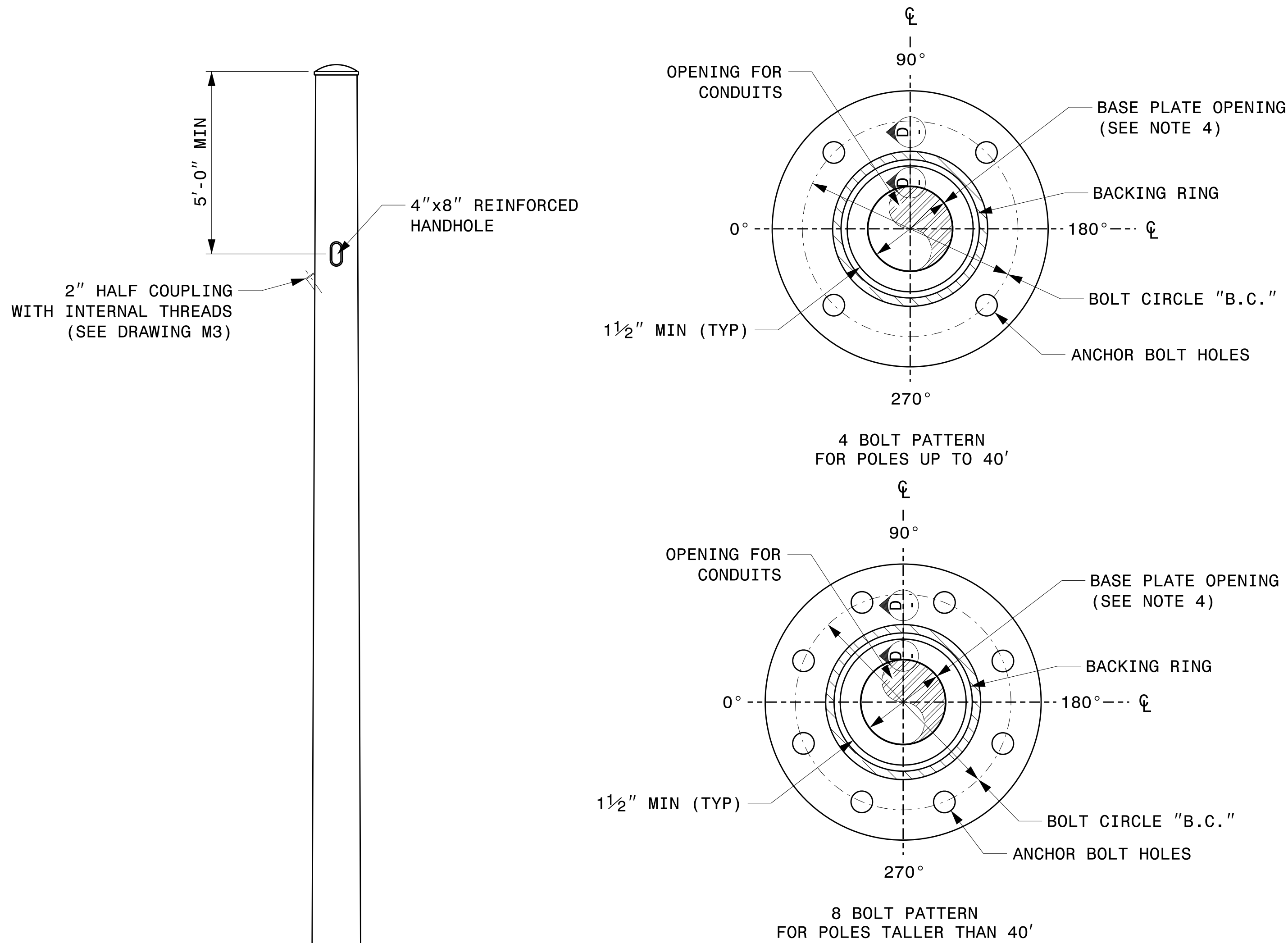


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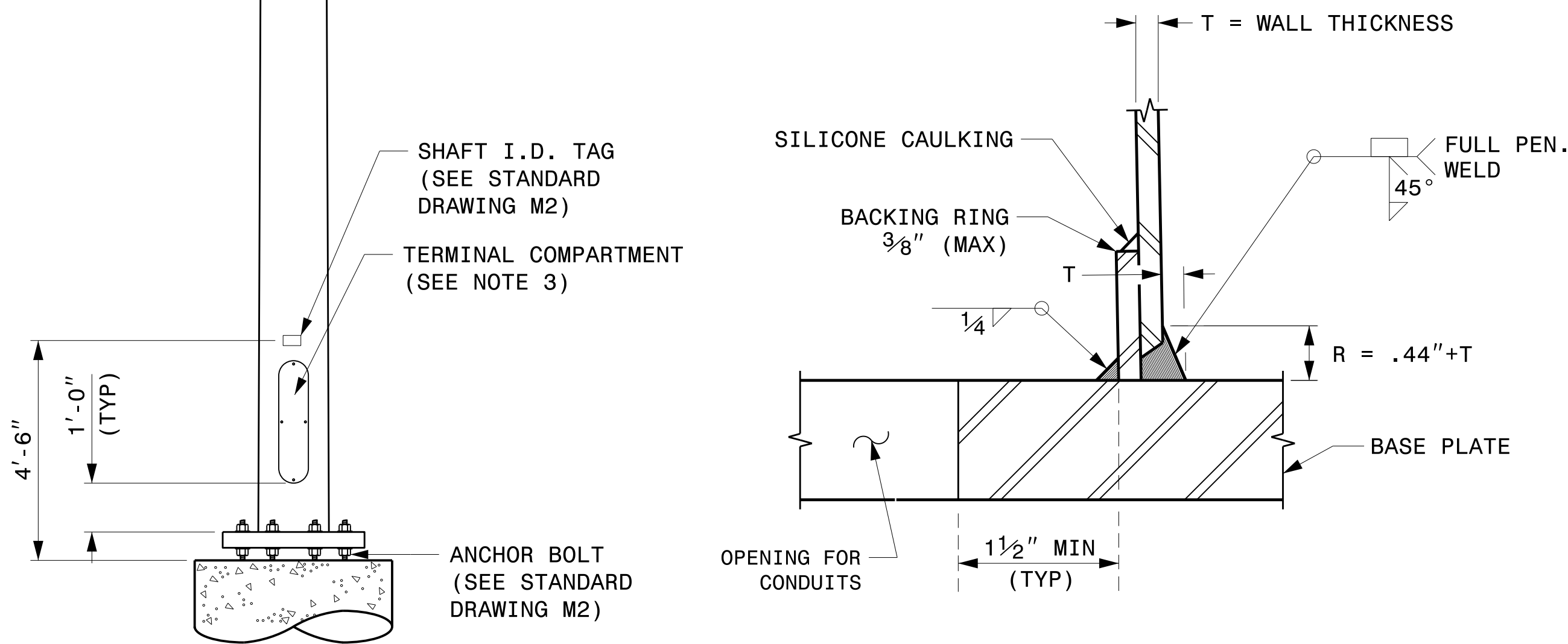
09/21/2023

DATE

Standard Strain Pole Foundation – All Soil Conditions



BASE PLATE DETAILS



SECTION D-D
(POLE ATTACHMENT TO BASE PLATE)
FULL - PENETRATION
GROOVE WELD DETAIL

CCTV CAMERA POLE
(NOT TO SCALE)

NOTES:

1. THIS DRAWING PROVIDES BASIC DETAILS FOR CCTV POLES. PROJECT REQUIREMENTS MAY REQUIRE SPECIAL FACTORY PREPS THAT ARE NOT SHOWN ON THESE DETAILS.
2. DETAILS FOR INTERNAL CAMERA LOWERING SYSTEMS ARE NOT SHOWN.
3. POLE MOUNTED CABINETS MAY REQUIRE MODIFICATIONS TO THE LOWER HANDHOLE OPENING TO MOUNT CABINETS. 4" X 8" REINFORCED HANDHOLES ARE ACCEPTABLE OPTIONS, AND MAY BE PREFERRED.
4. OPENING IN POLE BASE SHALL BE EQUAL TO POLE BASE INSIDE DIAMETER MINUS 3 1/2" BUT SHALL NOT BE LESS THAN 8 1/2".
5. USE COMPACT SECTION CRITERIA D/T RATIO PER AASHTO LTS-LRFD 1ST EDITION SECTION 5.7.2.

	Typical Fabrication Details For CCTV Poles		
	PLAN DATE: SEPTEMBER 2023	DESIGNED BY: K.C. DURIGON	
	PREPARED BY: K.C. DURIGON	REVIEWED BY: C.F. ANDREWS	
SCALE 0 NA NONE	REVISIONS	INIT.	DATE
DocuSigned by: Kevin Durigon 4B23DC79B3784DA...		09/21/2023 DATE	

1	INSTALL COAX CABLE
2	INSTALL ETHERNET CABLE
3	EXISTING ETHERNET (OR COAX) CABLE
4	INSTALL SMFO CABLE
5	EXISTING SMFO CABLE
6	INSTALL FIBER OPTIC DROP CABLE ASSEMBLY
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 BASE MOUNTED CABINET
25	INSTALL NEW RISER INTO BASE MOUNTED CABINET
26	INSTALL NEW ETHERNET EDGE SWITCH
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	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE
32	INSTALL POLE MOUNTED SPLICE CABINET
33	INSTALL BASE MOUNTED SPLICE CABINET

<u>LEGEND</u>	
	NEW FIBER OPTIC COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
	NEW AERIAL GUY ASSEMBLY
	NEW CONDUIT
	EXISTING CONDUIT
	NEW DIRECTIONAL DRILLED CONDUIT

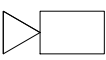
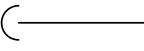
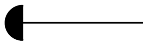
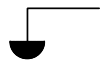
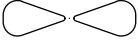
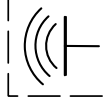
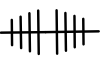
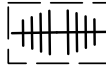
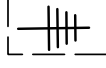
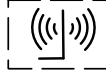
<u>NEW</u>		<u>EXISTING</u>	
	OVERSIZED JUNCTION BOX		
	WOOD POLE		
	AERIAL SPICE ENCLOSURE		
	UNDERGROUND SPICE ENCLOSURE		
	METAL POLE		
	CCTV ASSEMBLY		
	STANDARD GUY ASSEMBLY		
	SIDEWALK GUY ASSEMBLY		
	CABLE STORAGE RACKS (SNOW SHOES)		
	SIGNAL/EQUIPMENT CABINET		
	SPLICE CABINET		
	FLAT PANEL ANTENNA (SINGLE)		
	YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION		
	YAGI ANTENNA (SINGLE)		
	OMNI ANTENNA		
SP	SIGNAL POLE	SP	
XX-XXXX	SIGNAL INVENTORY NUMBER	XX-XXXX	

Diagram illustrating the symbols used in the cable tray layout:

- XX** (in a circle): INDICATES NUMBER OF CABLES, LOOPS, ETC.
- XX** (in a hexagon): INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
- XX** (in a triangle): INDICATES NUMBER OF RISER(S)/CONDUIT(S)
- XX** (in a circle): INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

Legend for Cable Tray Symbols:

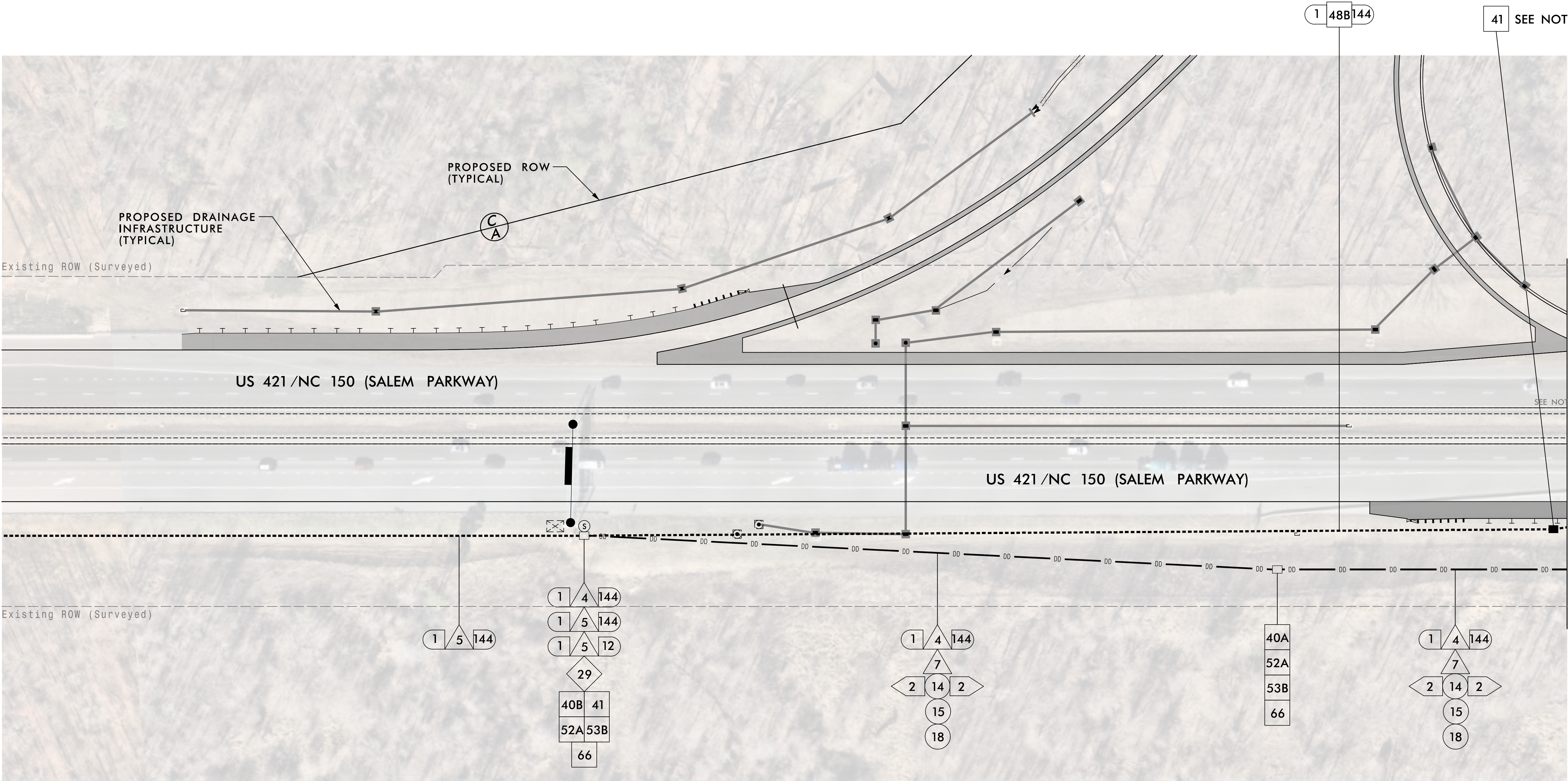
- XX** (in a circle): NUMBER OF CABLE(S)
- XX** (in a hexagon): NUMBER OF FIBER/TWISTED PAIRS
- XX** (in a triangle): NEW/EXISTING CABLE
- XX** (in a circle): REMOVE/MODIFY CABLE
- XX** (in a circle): CONDUIT/RISER

Legend for Riser/Conduit Symbols:

- XX** (in a circle): NUMBER OF RISER(S)/CONDUIT(S)
- XX** (in a circle): DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

<u>ATTACHMENT POINT:</u>	
	DISTANCE ABOVE (IN)/ATTACHMENT POINT REFERENCE POINT
	REFERENCE POINT DISTANCE BELOW (IN)/ATTACHMENT POINT

[illegible]



NOTES:

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DEPUTY DIVISION TRAFFIC ENGINEER, AT 336-747-7800, 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 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 OPERAITONAL.
- 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) REMOVE EXISTING JUNCTION BOX AND BACKFILL WITH APPROVED SUBGRADE MATERIAL. CUT CONDUIT OFF 30" BELOW GRADE AND ABANDON.

	U-5760		
	Communications Cable and Conduit Routing Plan		
	Division 9	Forsyth County Kernersville	
	PLAN DATE: September 2024	REVIEWED BY: KW Smith	
PREPARED BY: MC Burke	REVIEWED BY:	INIT.	DATE
REVISIONS			
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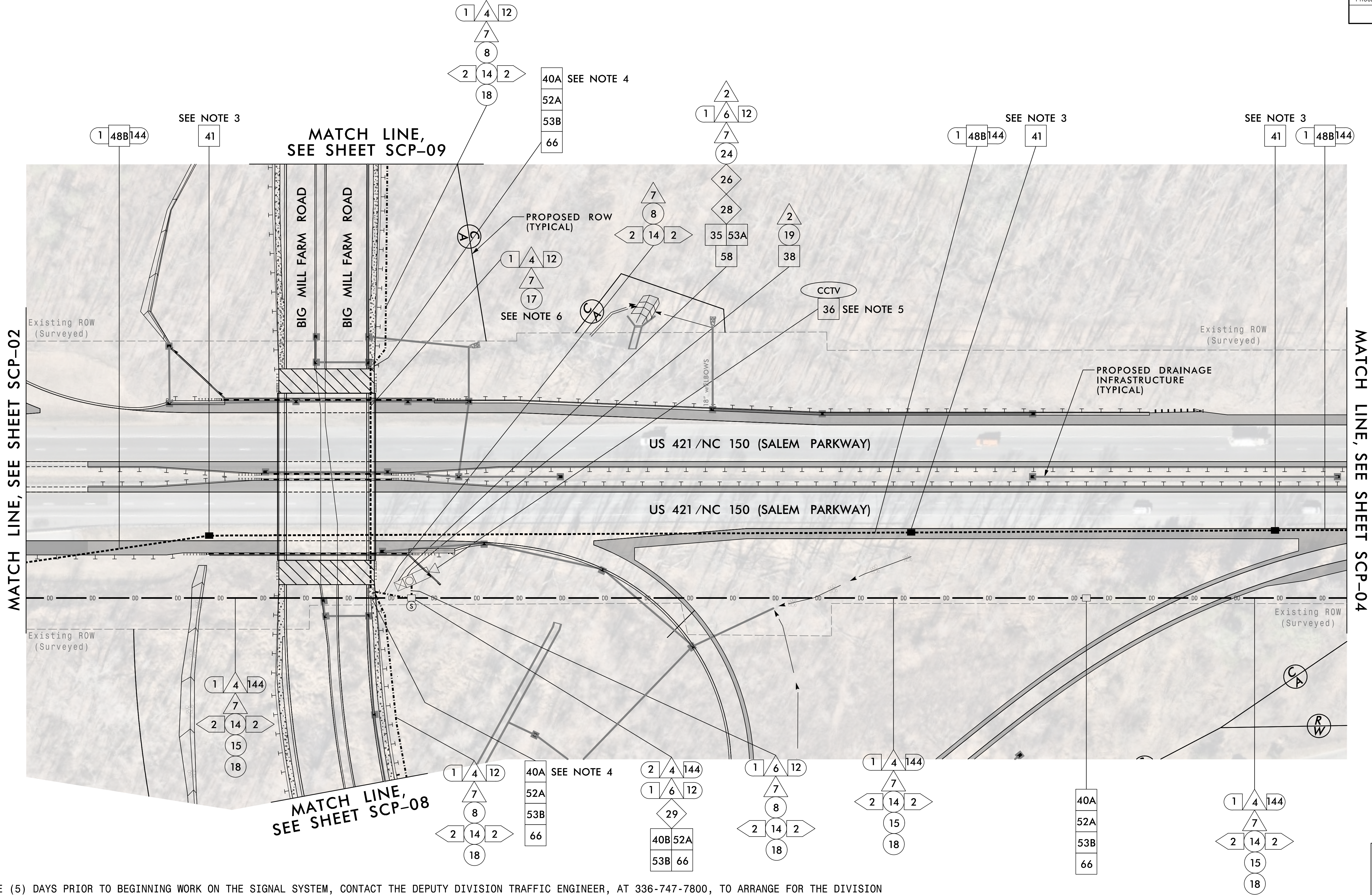
Kimley»Horn

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Tel: (919) 677-2000
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SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
030472
ENGINEER
KEVIN W. SMITH

DocuSigned by
Kevin Smith
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7/14/2025

PROJECT REFERENCE NO.	SHEET NO.
U - 5760	SCP - 03

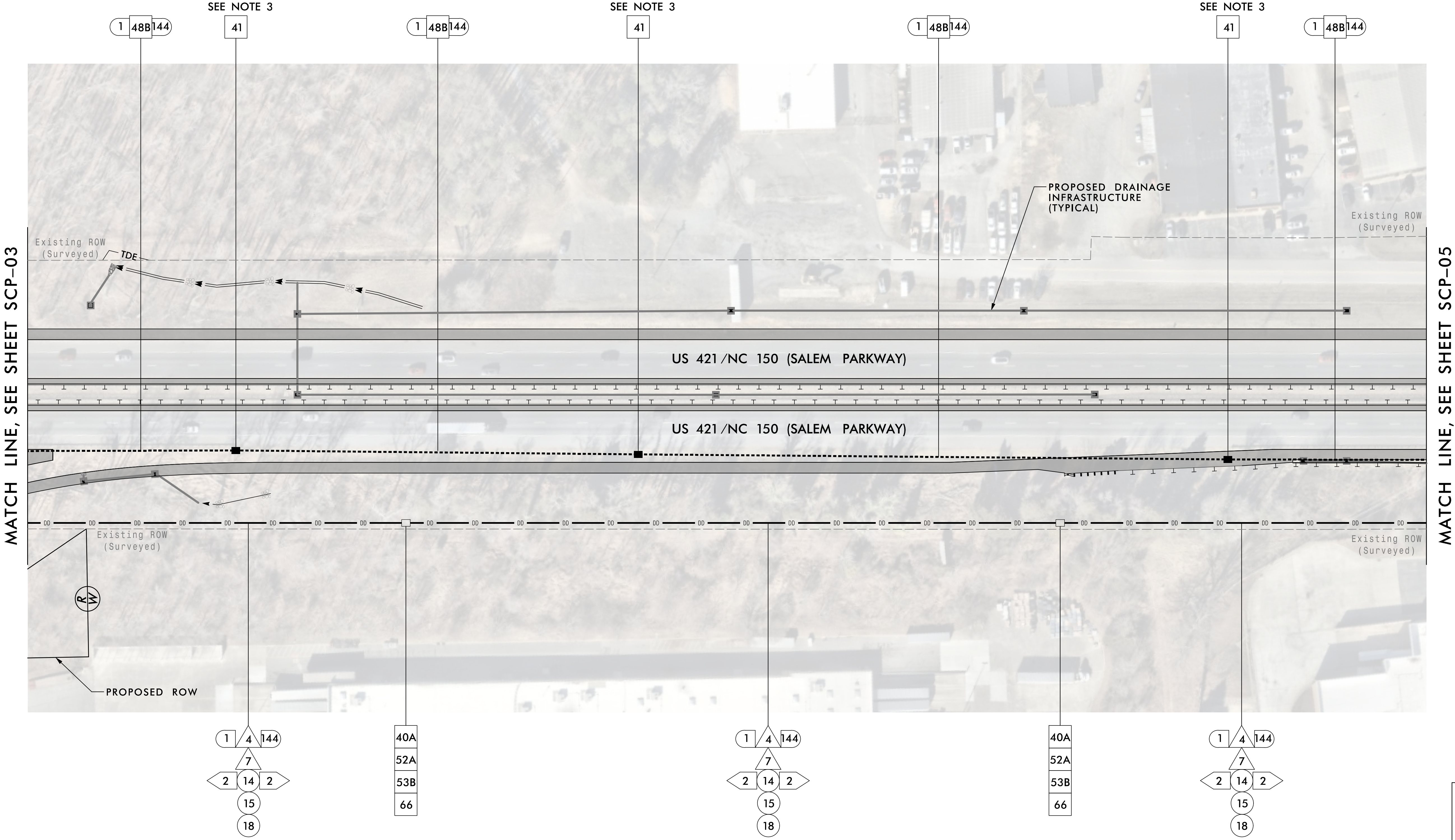


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- 3) REMOVE EXISTING JUNCTION BOX AND BACKFILL WITH APPROVED SUBGRADE MATERIAL. CUT CONDUIT OFF 30" BELOW GRADE AND ABANDON.
- 4) INSTALL NEW JUNCTION BOXES IN ADVANCE OF BRIDGE SLABS AND INTEGRATE WITH BRIDGE CONDUIT STUBOUTS.
- 5) MOUNT CCTV CAMERA AT A HEIGHT OF 45' ABOVE FINAL GRADE.
- 6) SEE BRIDGE DETAILS FOR INSTALLATION OF CONDUIT IN BRIDGE STRUCTURE.

	U-5760	
	Communications Cable and Conduit Routing Plan	
	Division 9 Forsyth County Kernersville	
	PLAN DATE: September 2024	REVIEWED BY: KW Smith
PREPARED BY: MC Burke	REVIEWED BY:	
REVISIONS	INIT.	DATE

SEAL	
DocuSigned by	
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7/14/2025	
SIGNATURE DATE	
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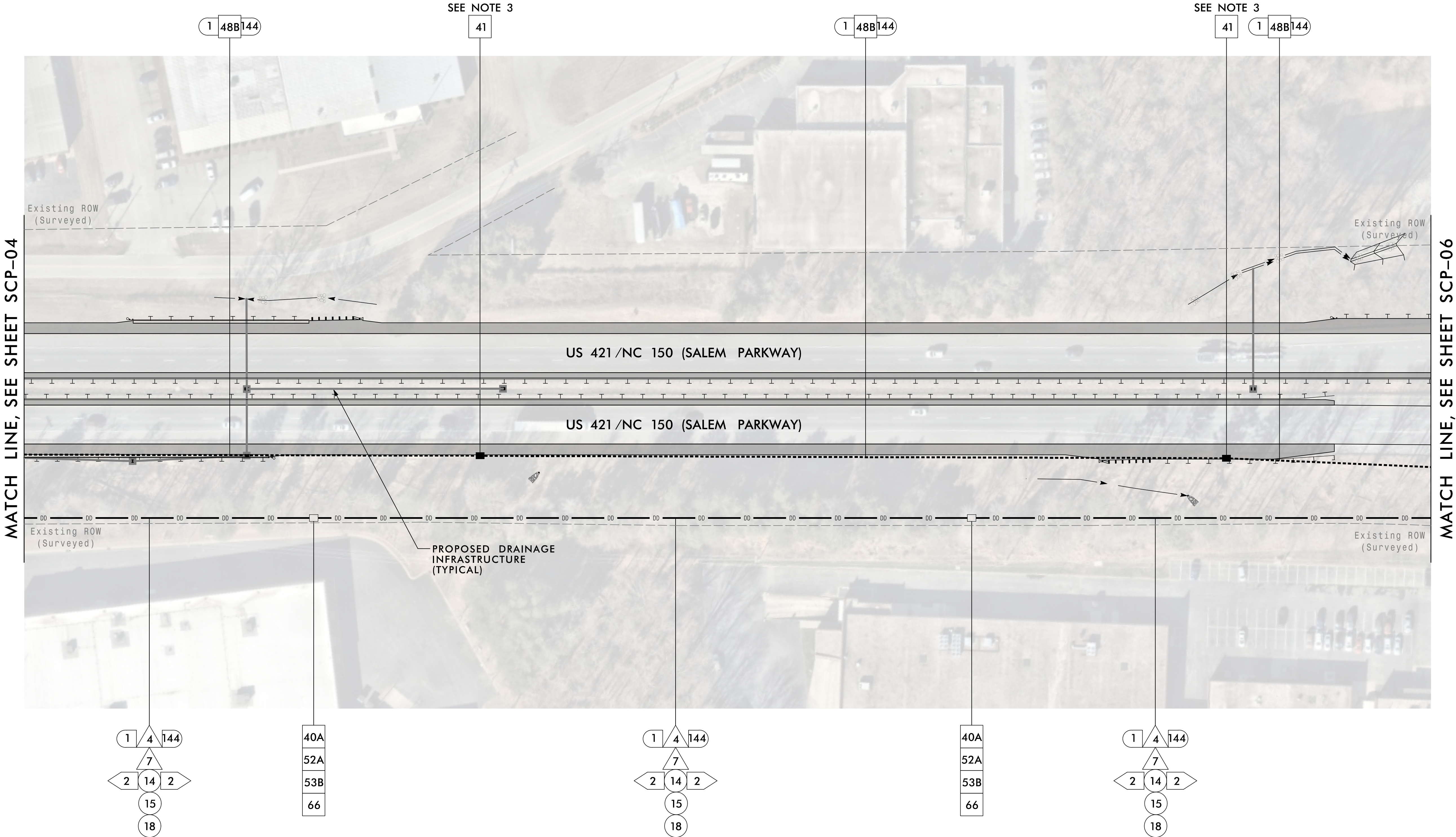


NOTES:

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	Communications Cable and Conduit Routing Plan		
	Division 9	Forsyth County Kernersville	
	PLAN DATE: September 2024	REVIEWED BY: KW Smith	
	PREPARED BY: MC Burke	REVIEWED BY:	
	REVISIONS	INIT.	DATE
SCALE: 0 N/A			
CADD Filename:		7/14/2025	

7/14/2025
ksRAL_Roadway\01036392 - U-5760 Big Mill Farm Road\Traffic Signal\56 - Cable Routing\1.CADD\U-5760_scp04.dgn



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 750 N. Greenfield Pkwy., Garner, NC 27529	Plans Prepared For:		
	U-5760		
	Communications Cable and Conduit Routing Plan		
	Division 9	Forsyth County Kernersville	
	PLAN DATE: September 2024	REVIEWED BY: KW Smith	
PREPARED BY: MC Burke	REVIEWED BY:	INIT.	DATE
REVISIONS			
SIGNATURE		DATE	
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SEAL

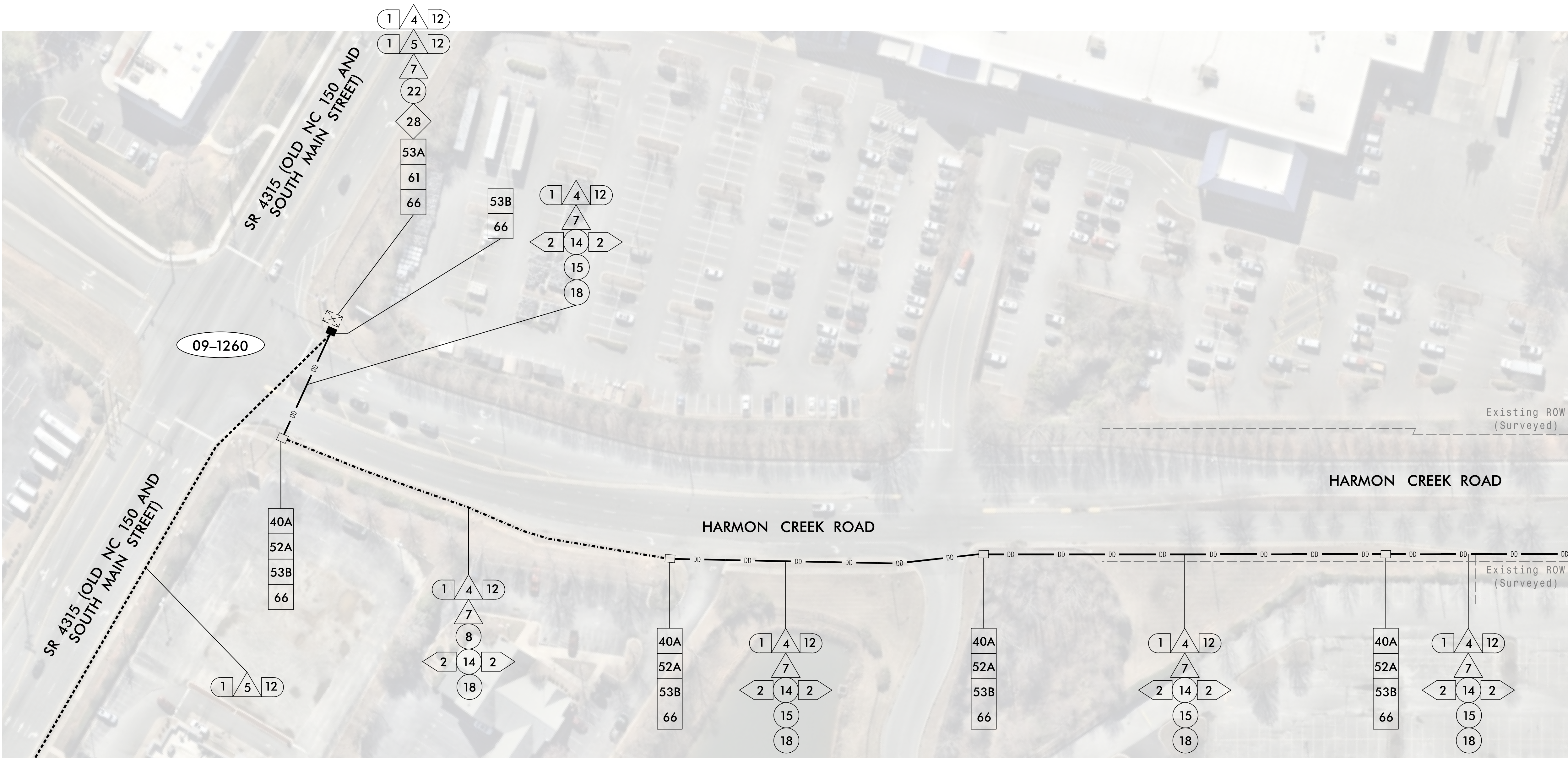
NORTH CAROLINA
PROFESSIONAL
SEAL
030472
ENGINEER
KEVIN W. SMITH

DocuSigned by
Kevin Smith
00065048380440F...
7/14/2025



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Plans Prepared For: 750 N. Greenfield Pkwy., Garner, NC 27529	U-5760 Communications Cable and Conduit Routing Plan <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Division 9</td> <td style="width: 33%;">Forsyth County</td> <td style="width: 33%;">Kernersville</td> </tr> <tr> <td>PLAN DATE: September 2024</td> <td colspan="2">REVIEWED BY: KW Smith</td> </tr> <tr> <td>PREPARED BY: MC Burke</td> <td colspan="2">REVIEWED BY:</td> </tr> </table>	Division 9	Forsyth County	Kernersville	PLAN DATE: September 2024	REVIEWED BY: KW Smith		PREPARED BY: MC Burke	REVIEWED BY:		SEAL																									
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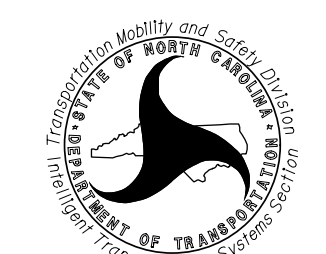


MATCH LINE, SEE SHEET SCP-08

NOTES:

- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DEPUTY DIVISION TRAFFIC ENGINEER, AT 336-747-7800, 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 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 OPERAITONAL.
- 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) REMOVE EXISTING JUNCTION BOX AND BACKFILL WITH APPROVED SUBGRADE MATERIAL. CUT CONDUIT OFF 30" BELOW GRADE AND ABANDON.

Plans Prepared For:



750 N. Greenfield Pkwy., Garner, NC 27529

U-5760

Communications Cable and Conduit Routing Plan

Division 9 Forsyth County Kernersville

PLAN DATE: September 2024 REVIEWED BY: KW Smith

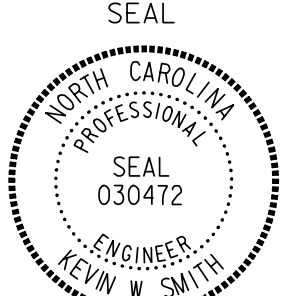
PREPARED BY: MC Burke REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE: 0' = 1" N/A



SEAL



DocuSigned by
Kevin Smith
7/14/2025

SIGNATURE DATE

CADD Filename: