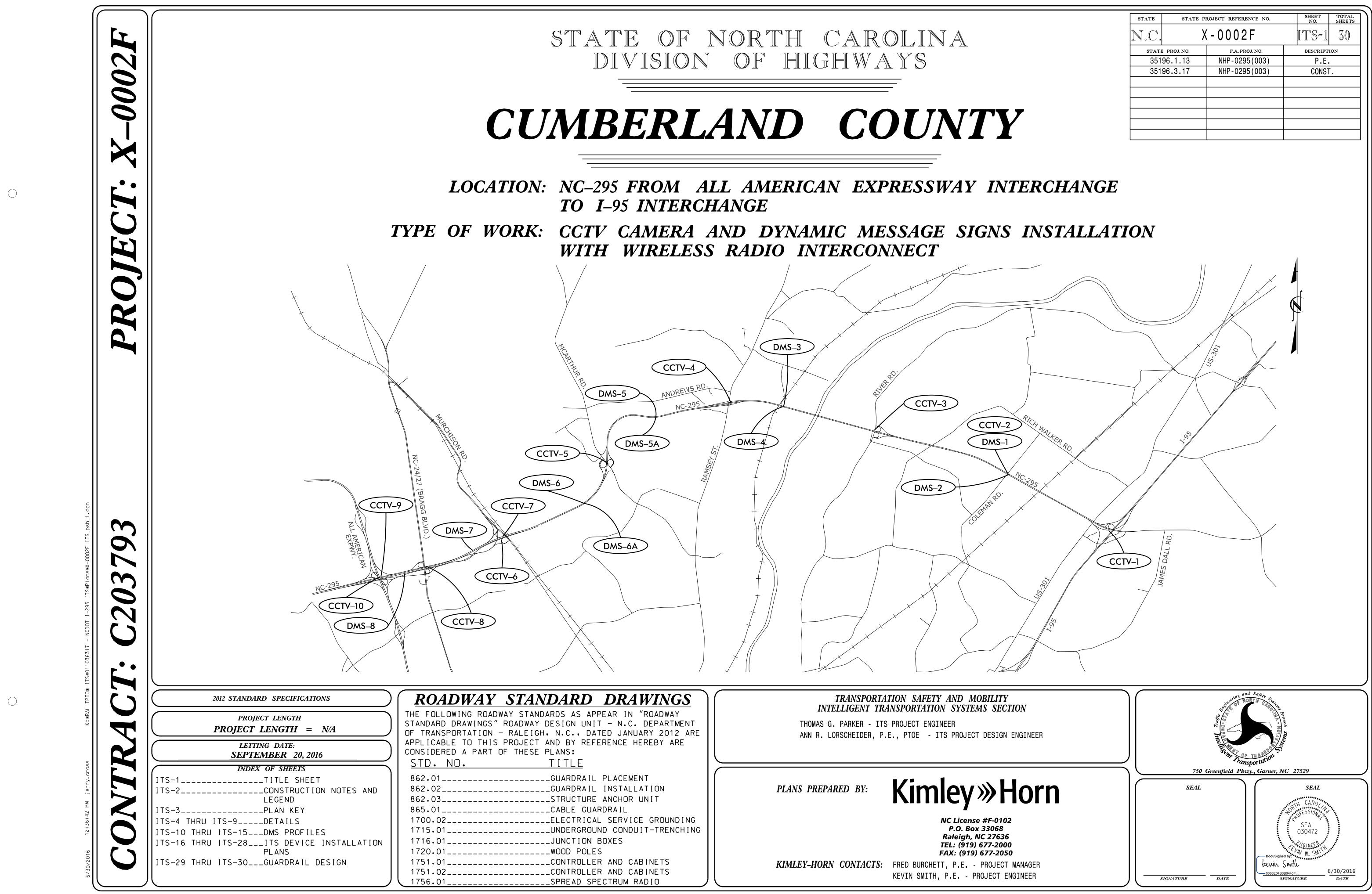
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STATE STATE	STATE PROJECT REFERENCE NO.				
N.C.	C. X-0002F				
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPT	ION		
35196.1.13	NHP-0295(003)	P.E			
35196.3.17	NHP-0295(003)	CONS	Г.		

$\sqrt{1}$	INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS
	INSTALL 3-WIRE COPPER FEEDER CONDUCTORS
$\sqrt{3}$	INSTALL 4-WIRE COPPER FEEDER CONDUCTORS
$\overbrace{4}$	INSTALL SMFO CABLE
$\sqrt{5}$	INSTALL MMFO CABLE
	INSTALL FIBER OPTIC DROP CABLE
	INSTALL TRACER WIRE
8	TRENCH OR PLOW
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 CAB
13	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
	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 CABI
25	INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
26	TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
27	INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
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	REMOVE EXISTING CABINET FOUNDATION	F O F
36	INSTALL CCTV CAMERA ASSEMBLY	
37	INSTALL CCTV CAMERA WOOD POLE	REM
38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	
39	INSTALL JUNCTION BOX	
40	INSTALL OVERSIZED JUNCTION BOX	DD DD B&J B&J
41	REMOVE EXISTING JUNCTION BOX	
42	INSTALL WOOD POLE	
43	INSTALL 6"X6" WOOD PEDESTAL	
44	INSTALL AERIAL GUY ASSEMBLY	
45	INSTALL STANDARD GUY ASSEMBLY	
46	INSTALL SIDEWALK GUY ASSEMBLY	
47	INSTALL MESSENGER CABLE	
48	INSTALL DIRECTIONAL (YAGI) ANTENNA FOR WIRELESS SYSTEM	
49	INSTALL OMNIDIRECTIONAL ANTENNA FOR WIRELESS SYSTEM	
50	INSTALL WIRELESS RADIO TRANSCEIVER	XX-XXX
51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE	CONS7
52	INSTALL DELINEATOR MARKER	
53	STORE 20 FEET OF COMMUNICATIONS CABLE	
54	LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE	(XX)
55	LASH CABLE(S) TO EXISTING MESSENGER CABLE	XX
56	LASH CABLE(S) TO NEW MESSENGER CABLE	xx>
57	MODIFY EXISTING ELECTRICAL SERVICE	
58	INSTALL NEW ELECTRICAL SERVICE	
59	INSTALL NEW POLE MOUNTED EQUIPMENT CABINET	
60	INSTALL NEW EQUIPMENT CABINET DISCONNECT	
61	INSTALL DMS ASSEMBLY	
62	INSTALL DMS PEDESTAL AND FOUNDATION	
63	INSTALL SOLAR POWER ASSEMBLY	
64	INSTALL FIELD ETHERNET SWITCH	
65	INSTALL CCTV CAMERA VISOR	

BLE SEAL

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		PROJECT REFERENCE NO.	SHEET NO.
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	LEGEND		
• F 0	NEW FIBER OPTIC COMMUNICATIONS CABLE		
	NEW TWISTED PAIR COMMUNICATIONS CABLE		
• E X I	EXISTING COMMUNICATIONS CABLE		
REM —	EXISTING COMMUNICATIONS CABLE TO BE REMOVED		
	NEW AERIAL GUY ASSEMBLY		
	NEW CONDUIT		
	EXISTING CONDUIT		
D	NEW DIRECTIONAL DRILLED CONDUIT		
"J ——	NEW BORED AND JACKED CONDUIT		
	NEW JUNCTION BOX		
	EXISTING JUNCTION BOX		
0	NEW WOOD POLE		
•	EXISTING WOOD POLE		
S	AERIAL SPLICE ENCLOSURE		
\bigcirc	NEW METAL POLE		
	EXISTING METAL POLE		
	NEW CCTV ASSEMBLY		
$\left[\right] $	NEW PEDESTAL-MOUNTED DMS ASSEMBLY		
$\bar{\boxtimes}$	NEW BASE-MOUNTED EQUIPMENT CABINET		
	NEW POLE-MOUNTED EQUIPMENT CABINET		
\bigtriangledown	NEW ELECTRICAL SERVICE		
	EXISTING ELECTRICAL SERVICE		
»)—	NEW WIRELESS RADIO ANTENNA		
KXX	ITS DEVICE INVENTORY NUMBER		
τρικ	TION NOTE SYMBOLOGY KE	۲ .	
ίλυς	TION NOIE SINIDULUGI KE		
INDI	CATES NUMBER OF CABLES, LOOPS, ETC.		
	CATES NUMBER OF FIBERS PER CABLE, TED PAIRS PER CABLE, ETC.		
IND	CATES NUMBER OF RISER(S)/CONDUIT(S)		
IND	ICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)		
NI	JMBER		
		JMBER OF WISTED PAIRS	
C,	ABLE(S)		
	\sim		

NUMBER ____ OF RISER(S)/CONDUIT(S)

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

NC-295 FAYETTEVILLE OUTER LOOP ITS CONSTRUCTION NOTES & LEGEND SEAL Plans Prepared For: CARO SEAL 030472 CUMBERLAND COUNTY DIVISION 06

 Kinley
 Horn

 NC License #F-0102
 N. Greenfield Pkwy., Garner, NC 27529

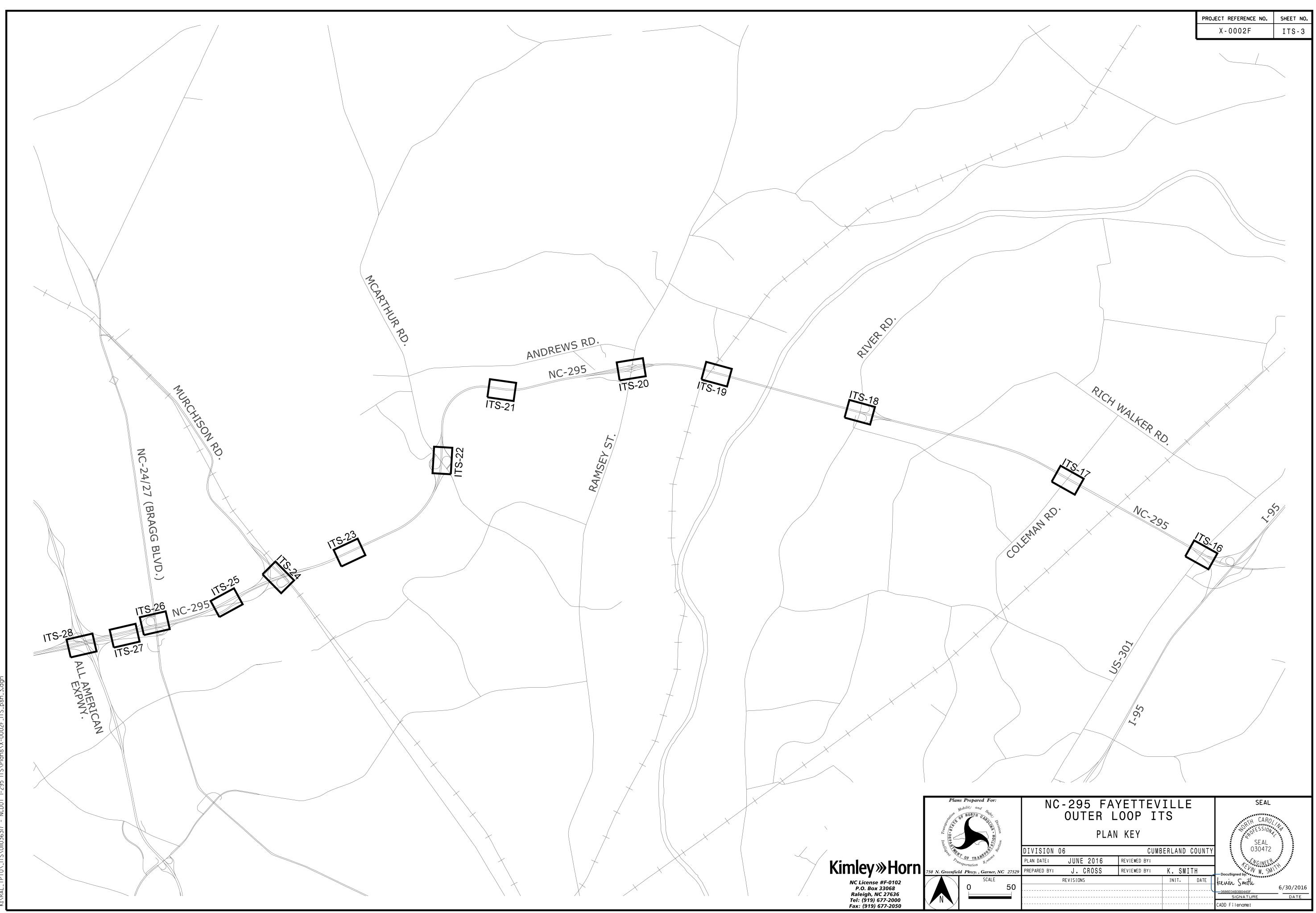
 PREPARED BY:
 J. CROSS

 Raleigh, NC 27636

 Tel: (919) 677-2000

 Fax: (919) 677-2050

 PLAN DATE: JUNE 2016 REVIEWED BY: - <u>SIGNATURE</u> CADD Filename: 6/30/2016

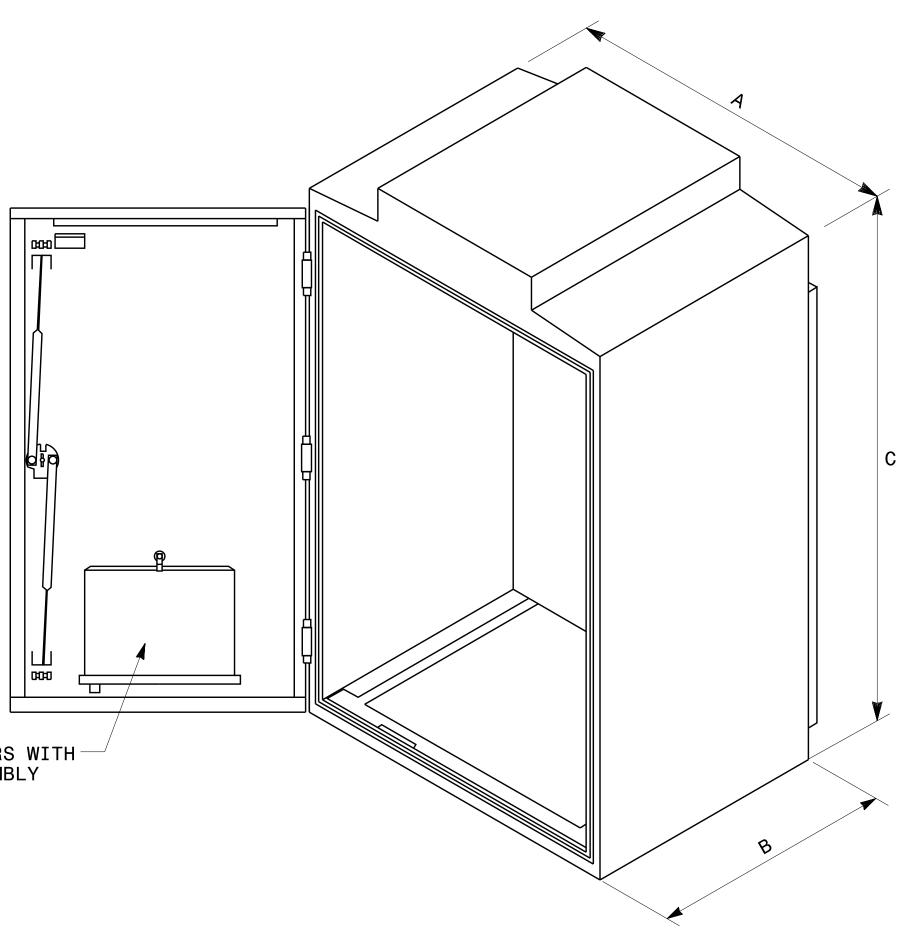


3/30/2016 12:36:48 PMjerry.cross ...RAI TPTON ITSN01036317 - NCNOT 1-295 ITSNPIADSYX-0002F ITS ASH 3

CABINET HOUSING DIMENSIONS

3	32	<u>33</u>	86S
A	24″	A	24″
B	30″	B	20″
C	64″	C	46″

VENTILATION LOUVERS WITH ——/ FILTER/SHELL ASSEMBLY

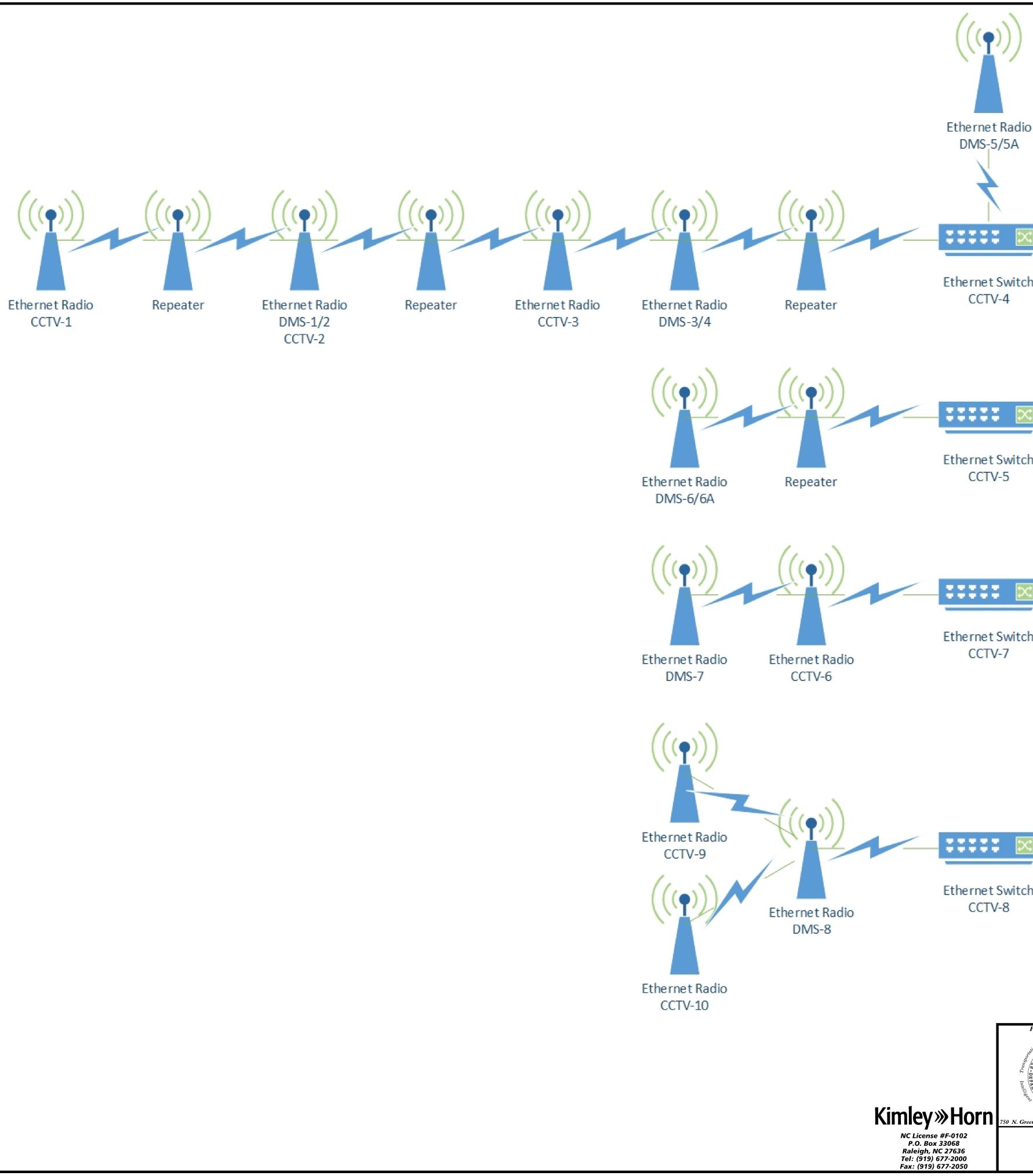


EQUIPMENT CABINET SIZES



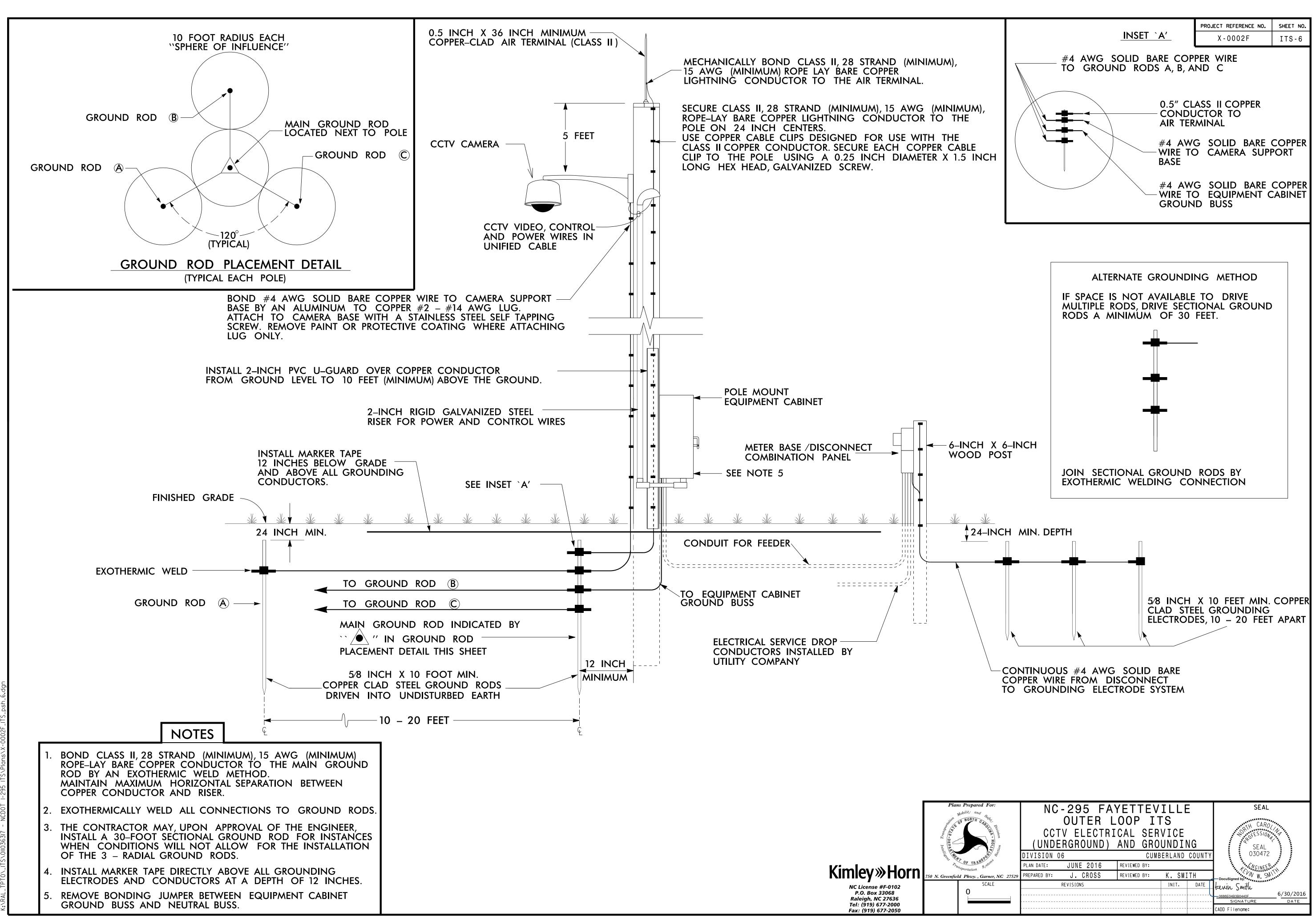
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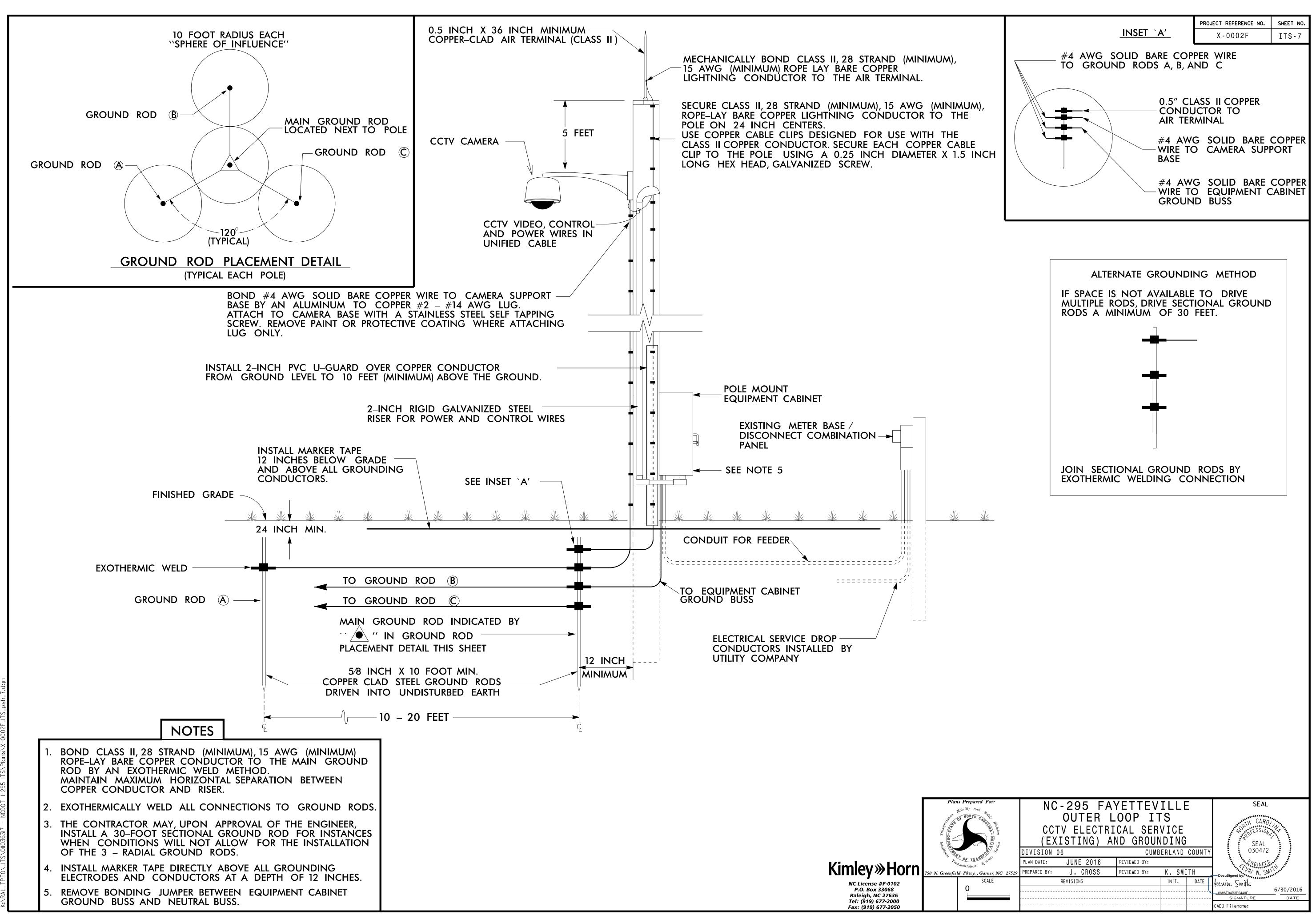
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	d Pkwy., Garner, NC 27529	PREPARED BY:	J. CROSS	REVIEWED BY:	K. SMI	ΙTΗ	DocuSigned by	
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Plans Prepared For:	Optic Network Ture Connection To NCDOT Fiber Optic Network NC - 295 FAYETTEVIL OUTER LOOP ITS SYSTEM BLOCK DIAGRAM	ND COUNTY	· · · · · · · · · · · · · · · · · · ·
Mobility and Second Division using the second secon	Optic Network	ND COUNTY SMITH DocuSigned by: W. SN	· · · · · · · · · · · · · · · · · · ·





	Prepared For:	NC	-295 F/	AYETTEV	Í Í L L E		SEAL
Mobilit./ and Great Durision		CCI		LOOP I RICAL SEF	TS RVICE		SEAL
	Section 2	· · · · ·)6		BERLAND		030472
Tran	SJSterns Sportation	PLAN DATE:	JUNE 2016	REVIEWED BY:			to WCINEE Social to
	Pkwy., Garner, NC 27529	PREPARED BY:	J. CROSS	REVIEWED BY:	K. SMI	I T H	- DocuSigned by:
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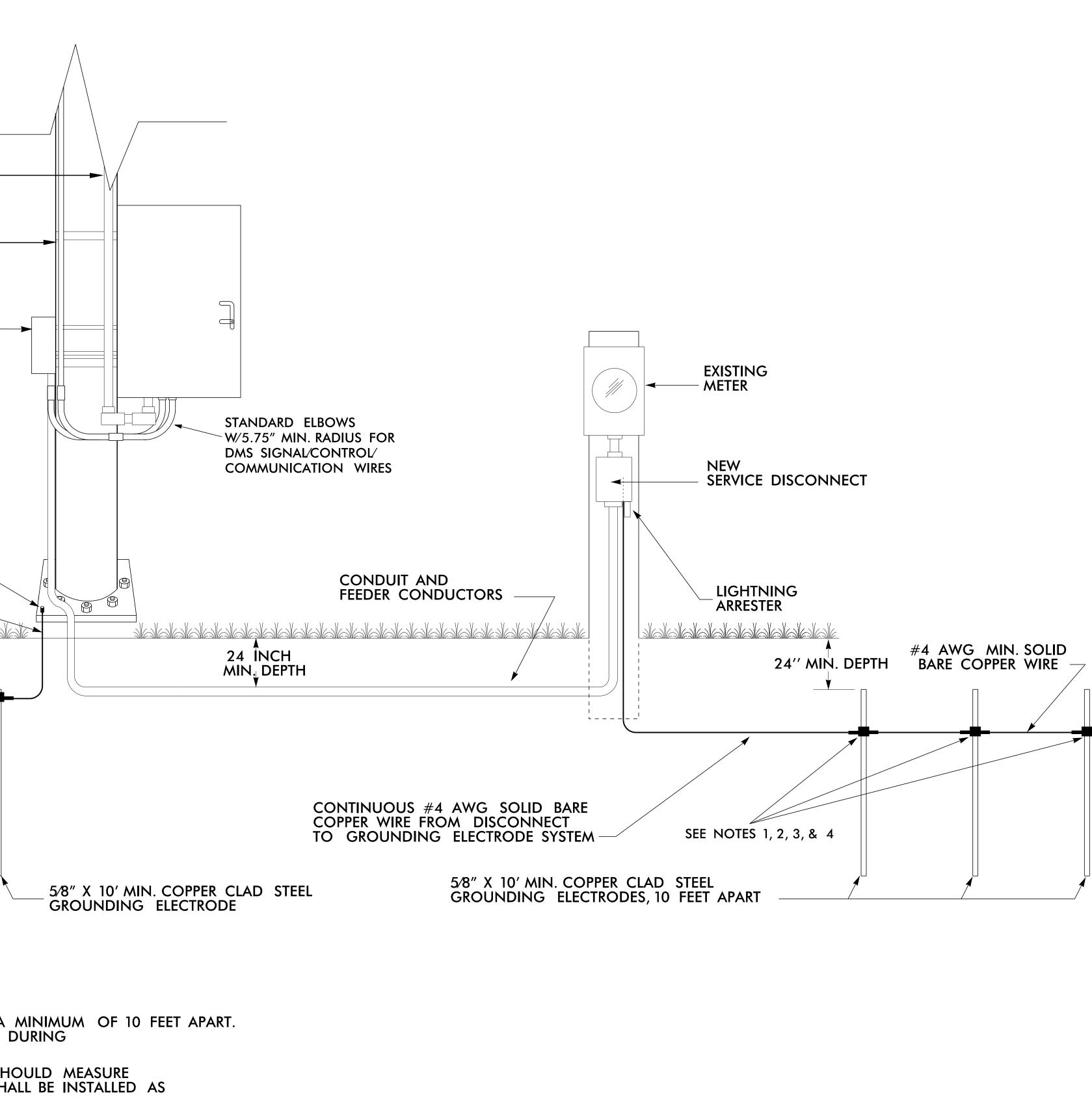
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PROJECT REFERENCE NO.	SHEET NO.
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Plans Prepared For:		NC-295 FAYETTEVILLE OUTER LOOP ITS					SEAL		
		DIVISION 06 CUMBERLAND COUN				COUNTY	Υ SEAL 030472		
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	d Pkwy., Garner, NC 27529	PREPARED BY:	J. CROS	S	REVIEWED BY:	K. SMI	ITH	DocuSigned by:	
	SCALE		REVISIONS			INIT.	DATE	kenin Smith	
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	RGC FOR DMS FEEDER CONDUCTORS —
	RGC WITH DMS SIGNAL/CONTROL/ COMMUNICATION WIRES
	EQUIPMENT CABINET
	DISCONNECT
	1/4 INCH GROUNDING LUG —
	#4 AWG MIN. SOLID BARE COPPER WIRE
	24 INCH MIN ₁ DEPTH
sh_9.dgr	NOTES
ITS\Plans\X-0002F_ITS_psh_9.dgn	 INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED INSTALLATION.
-Ylans/X-	2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SH TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SH
I-295 ITS	DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT. 3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
⊢	4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AN AT A DEPTH OF 12 INCHES.
12:37:09 PMjerry.cross T0_ITS\011036317 - NCD0	5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWE AND EQUIPMENT GROUND.
7:09 PM	6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET "EQUIPMENT GROUND".
2016 12:3 TPT0_	7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
6/30/2016 K:\RAL_TPT	8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.



ND CONDUCTORS

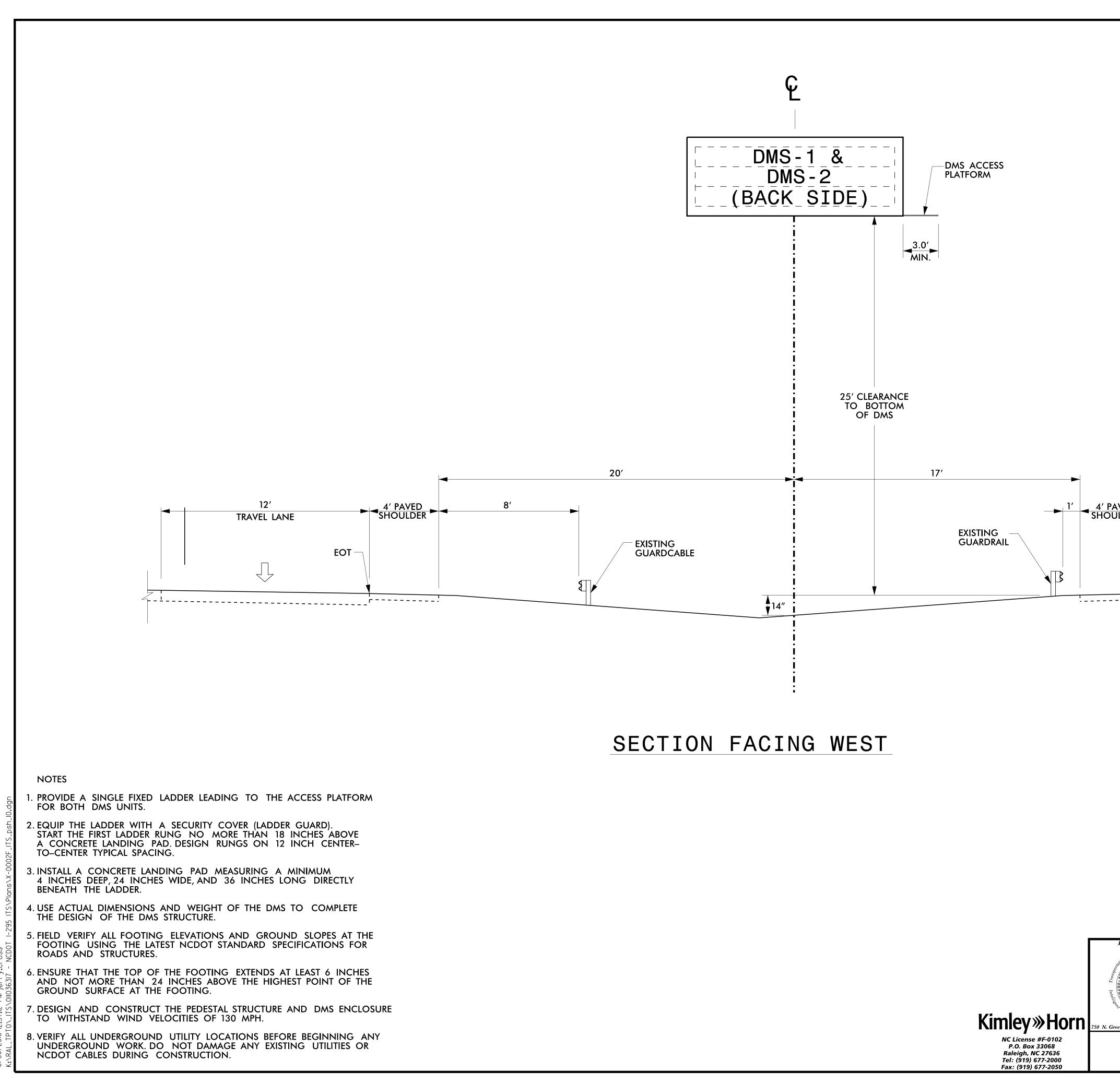
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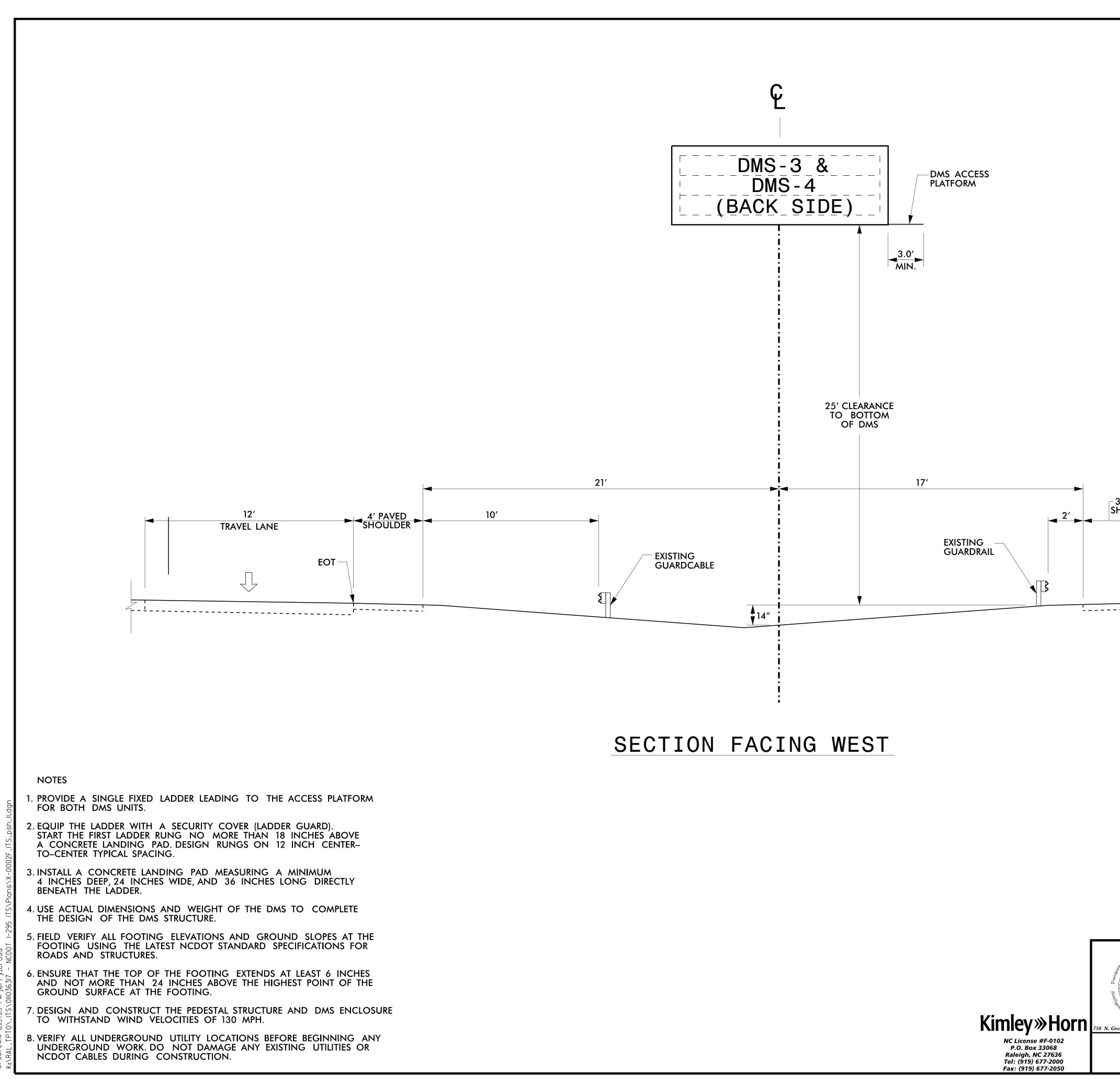
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	DIVISION 06	CUMB	ERLAND	COUNTY	030472
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reenfield Pkwy. , Garner, NC 27529	PREPARED BY: J. CROSS	REVIEWED BY:	K. SMI	TH	DocuSigned by
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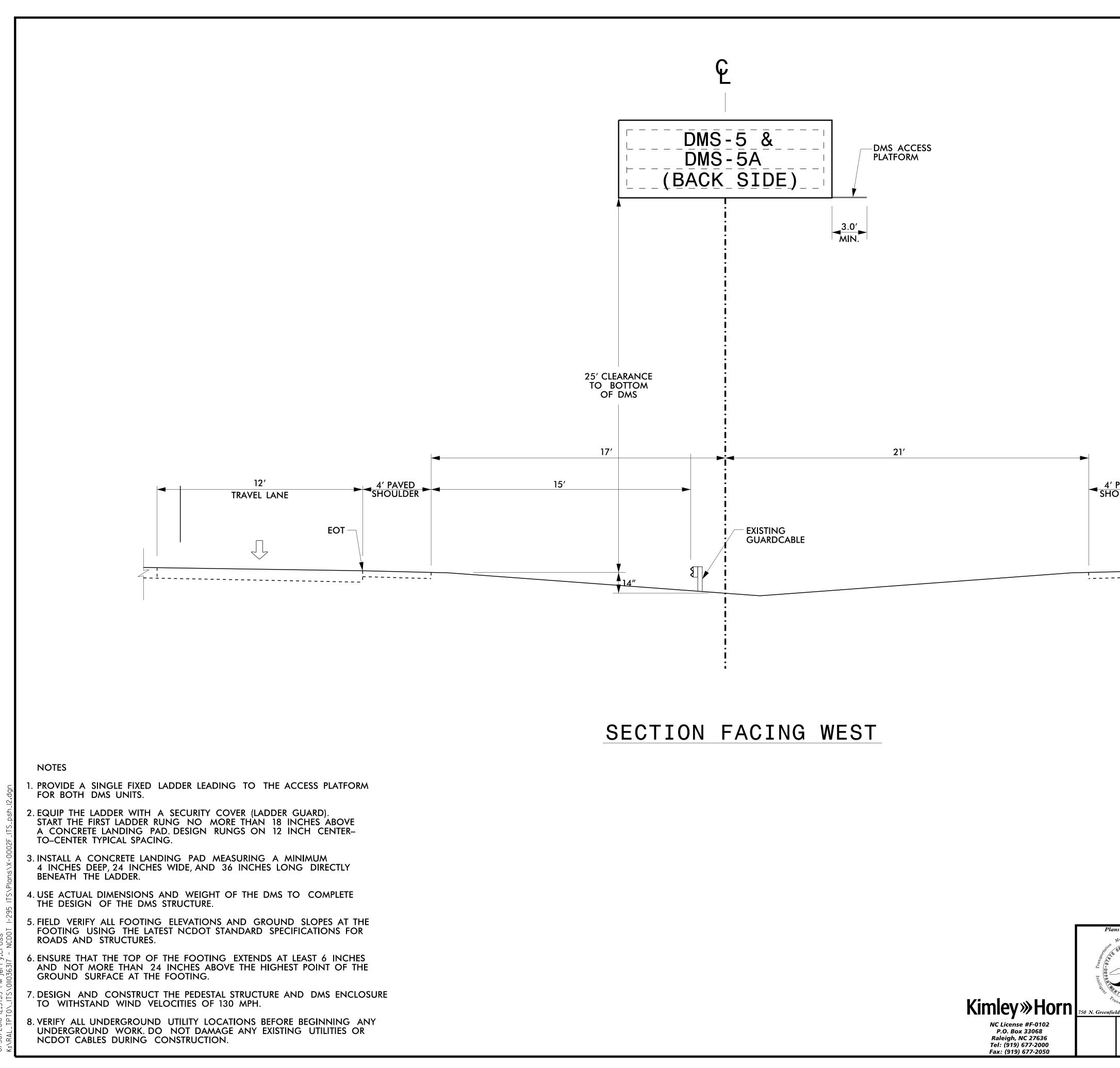
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tation C	NORTH CAROLINE	OUTER LOOP ITS						A.
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HI BRA		DIVISION 06		CUMB	ERLAND	COUNTY	030472	00000
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	d Pkwy., Garner, NC 27529	PREPARED BY:	J. CROSS	REVIEWED BY:	K. SMI	TH	— DocuSigned by:	*****
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ans Prepared For: Mobility and Sec	E SEAL	
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NC-295 FAYETTEVILL OUTER LOOP ITS DMS-5 & DMS-5A PROFILE DIVISION 06 CUMBERLAND	COUNTY SEAL 030472	3666006000
PLAN DATE: JUNE 2016 REVIEWED BY: Field Pkwy., Garner, NC 27529 PREPARED BY: J. CROSS REVIEWED BY:	trine F.	0000° (TH
SCALE REVISIONS INT.	DATE DOCUSIGNED BY	.**

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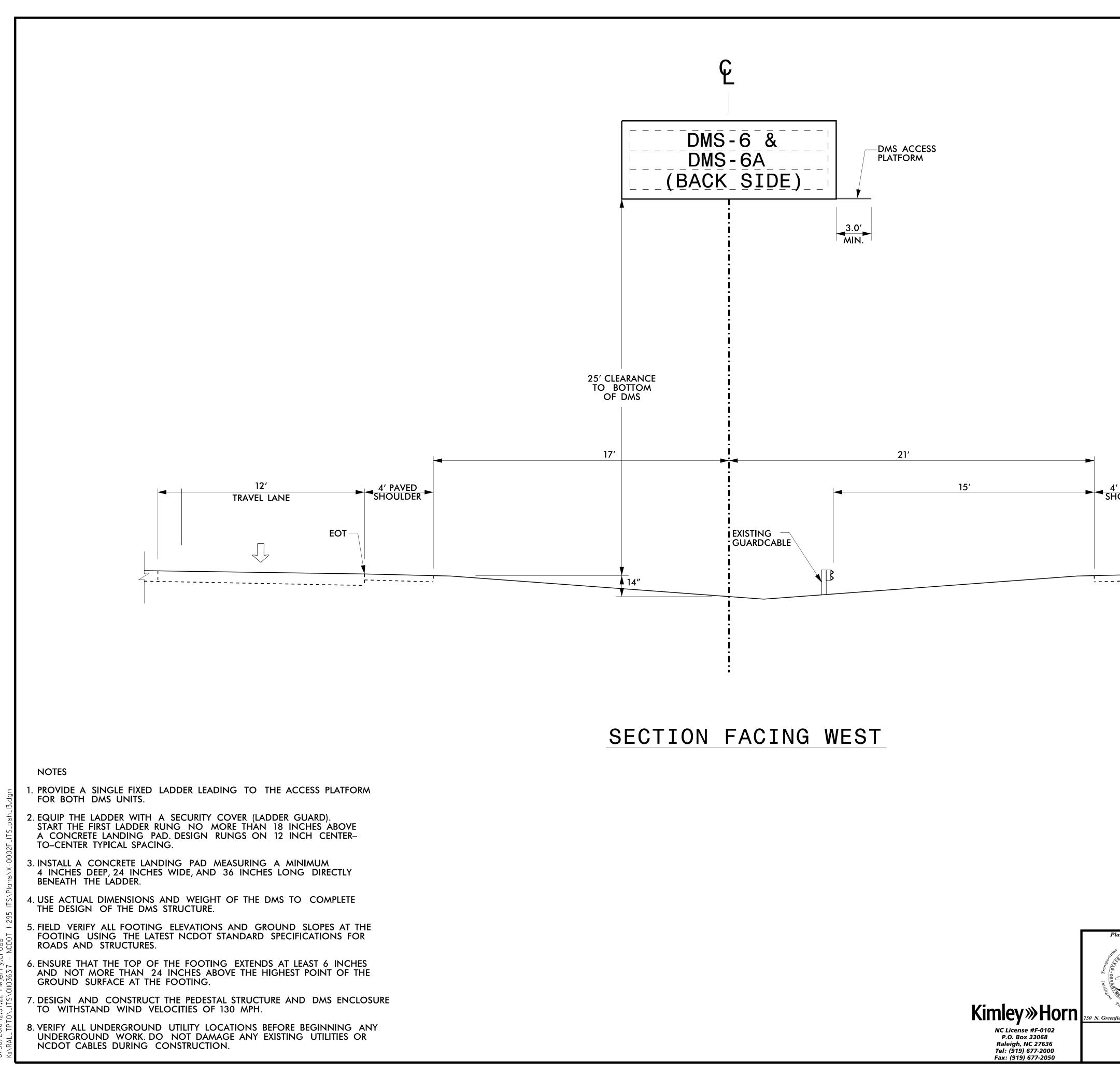
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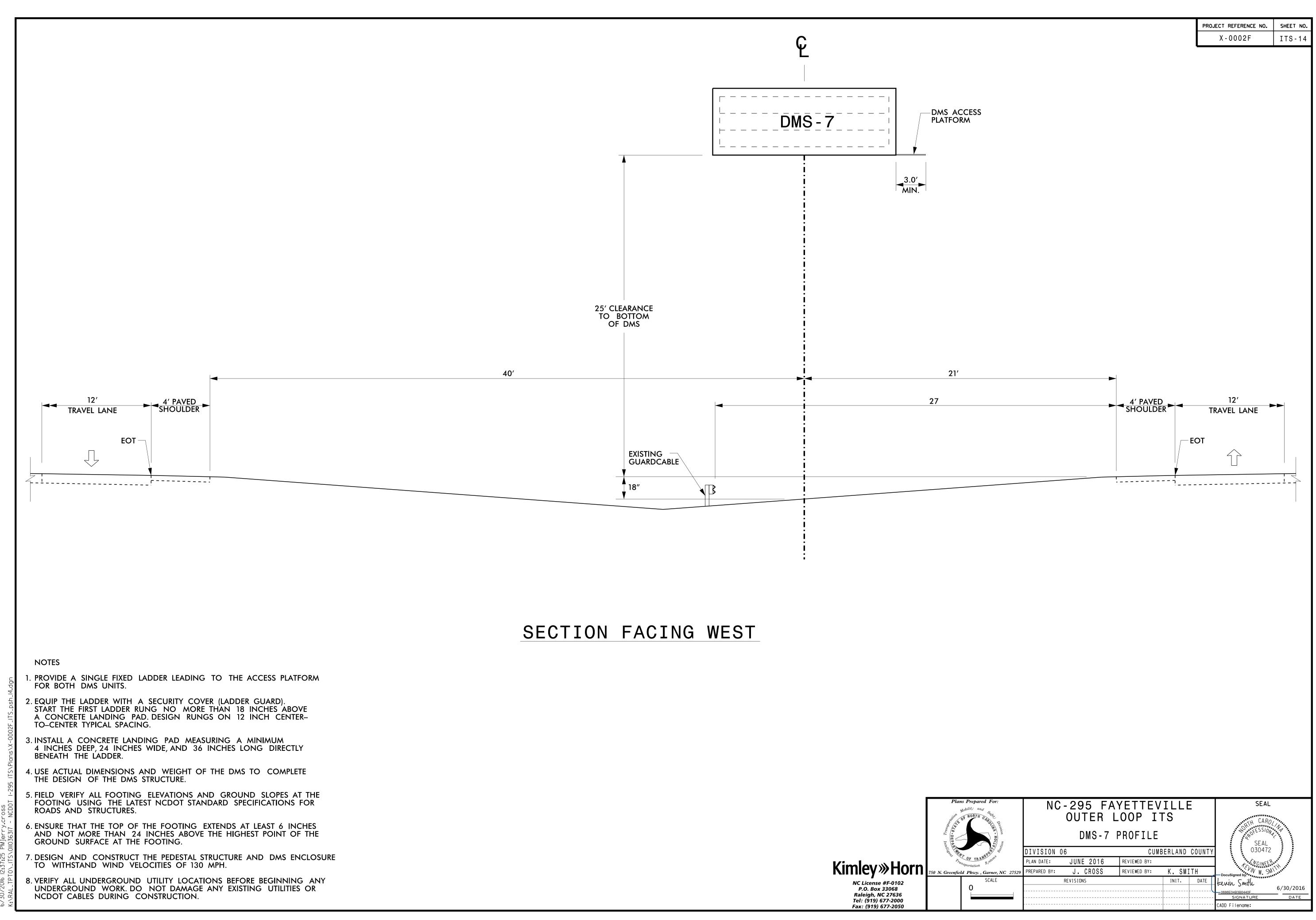


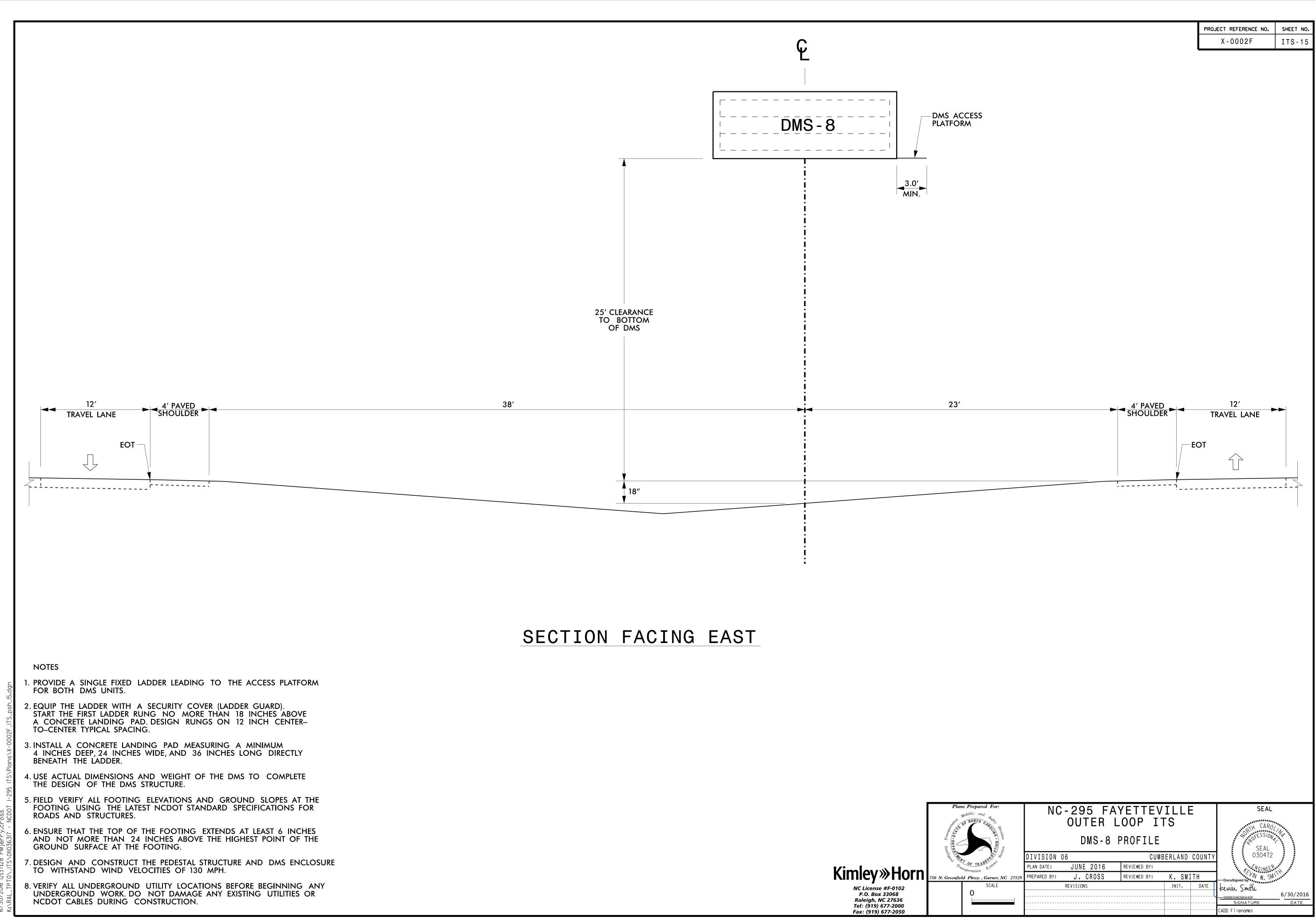
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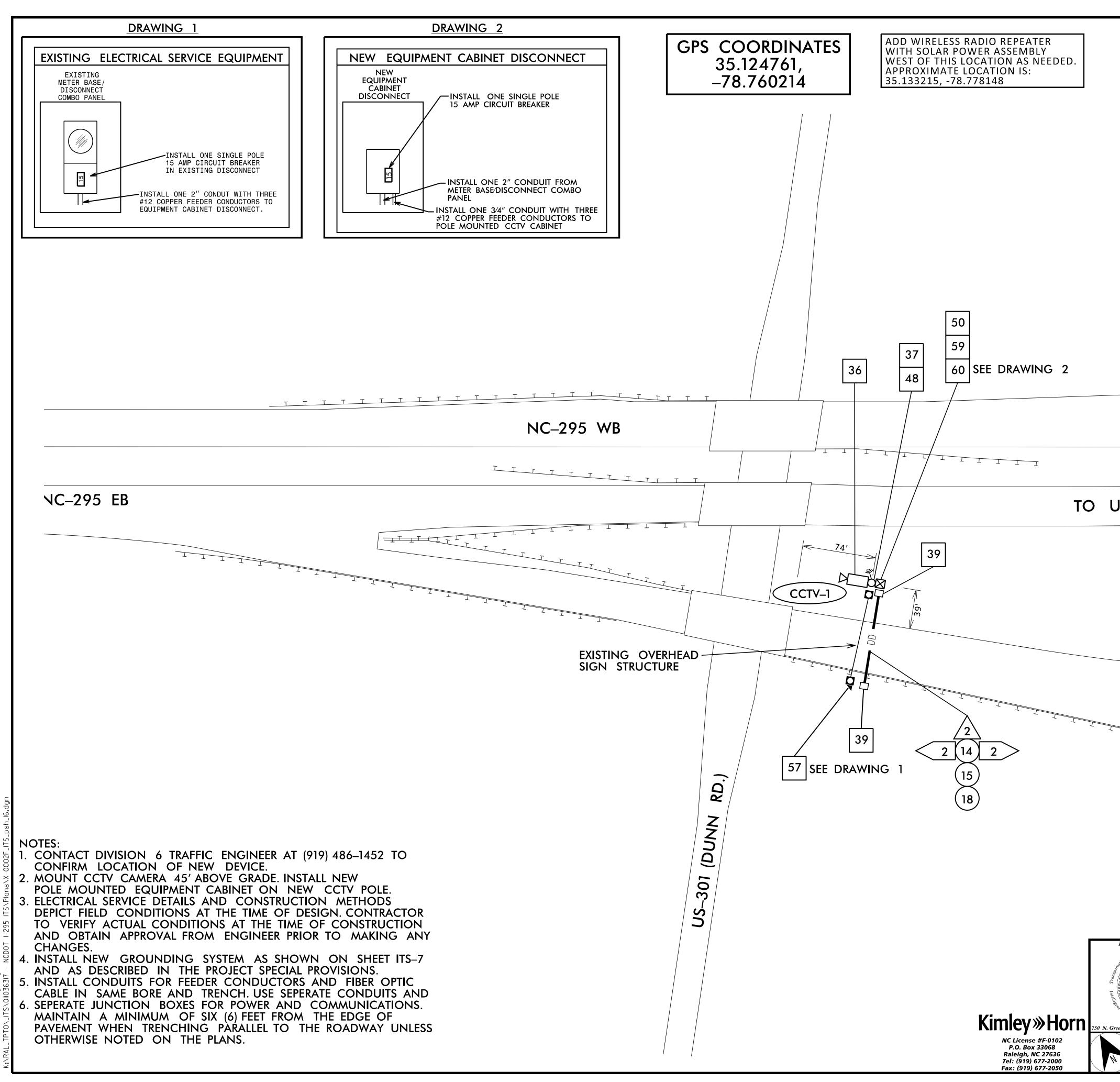
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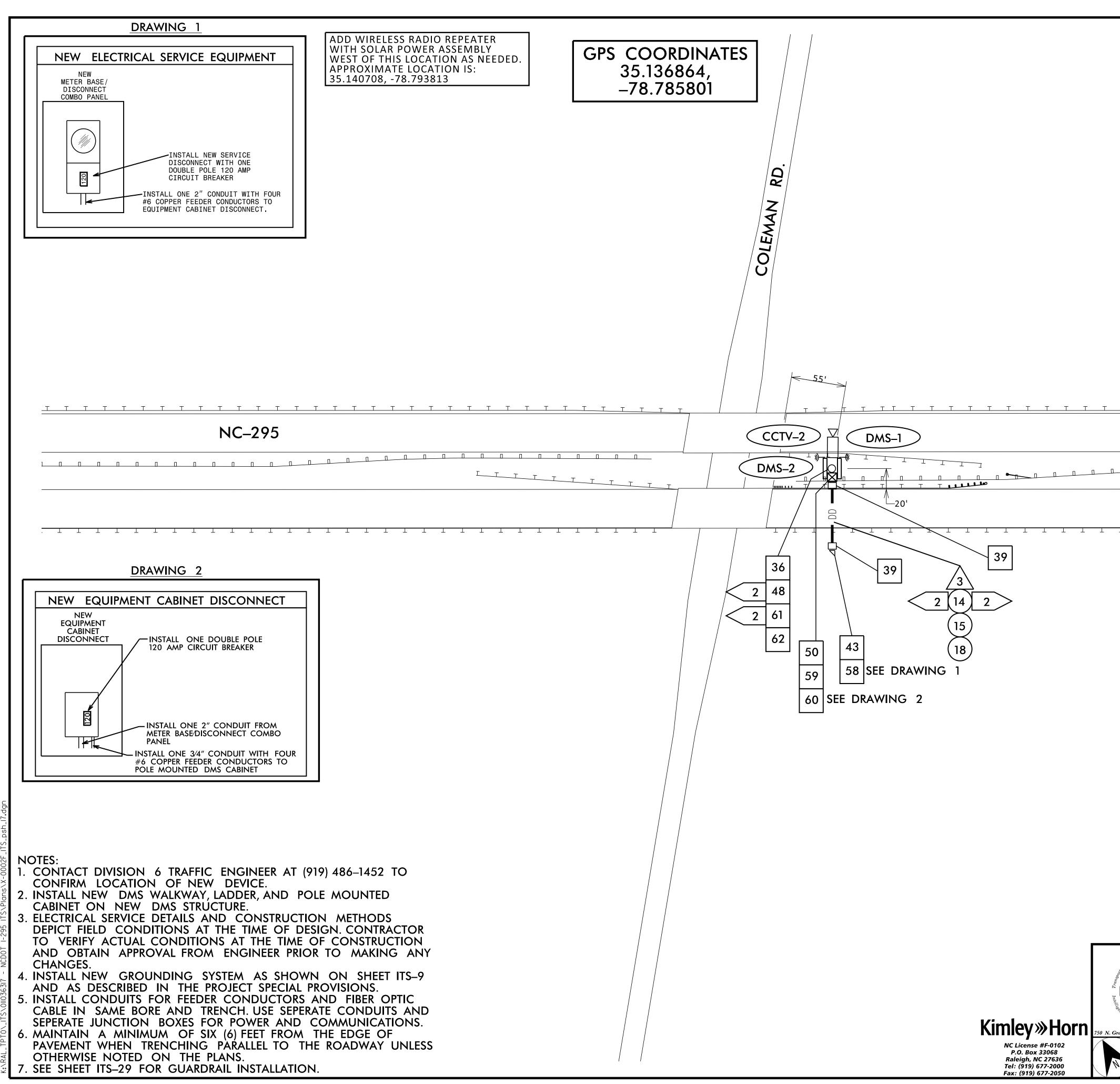
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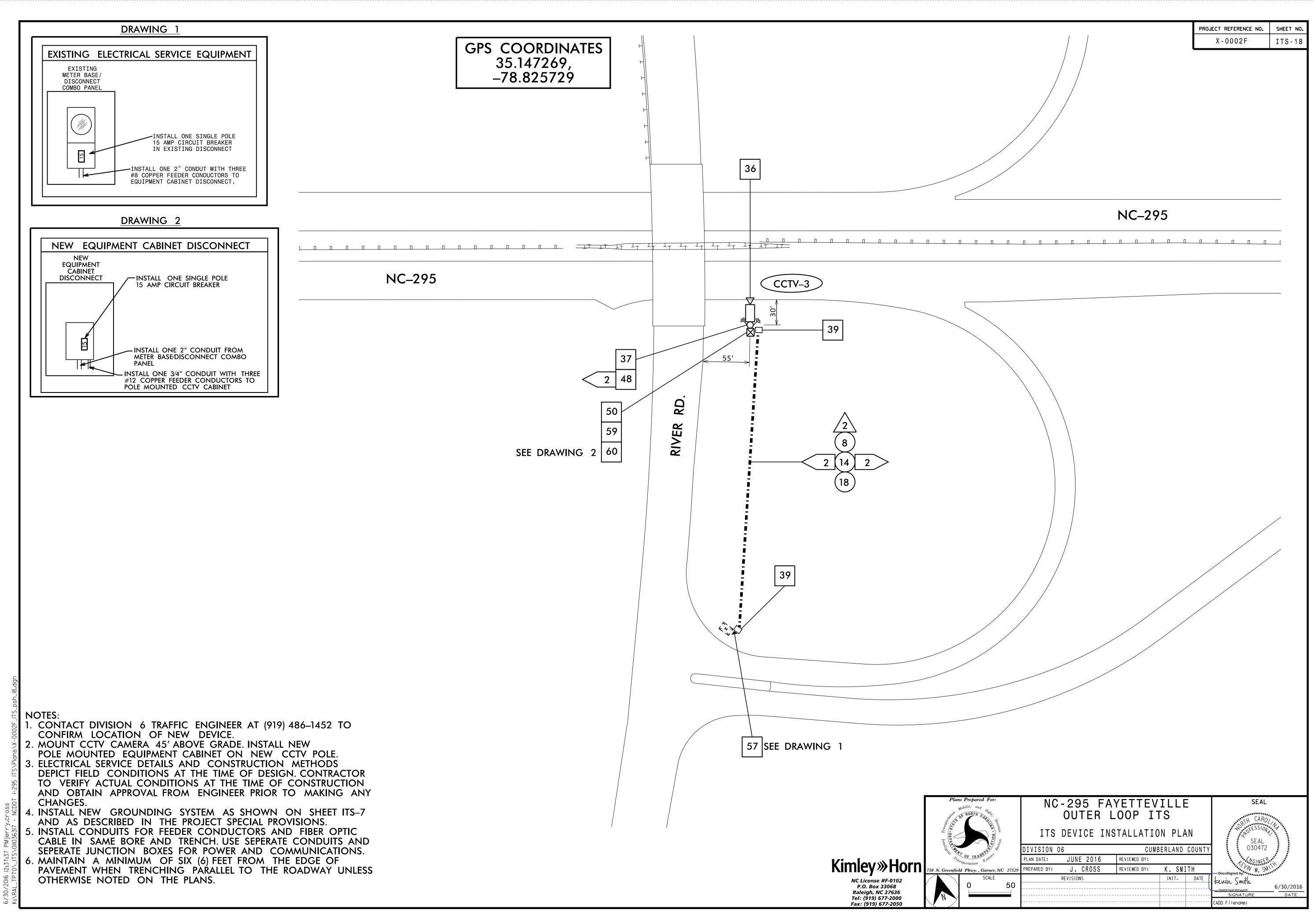


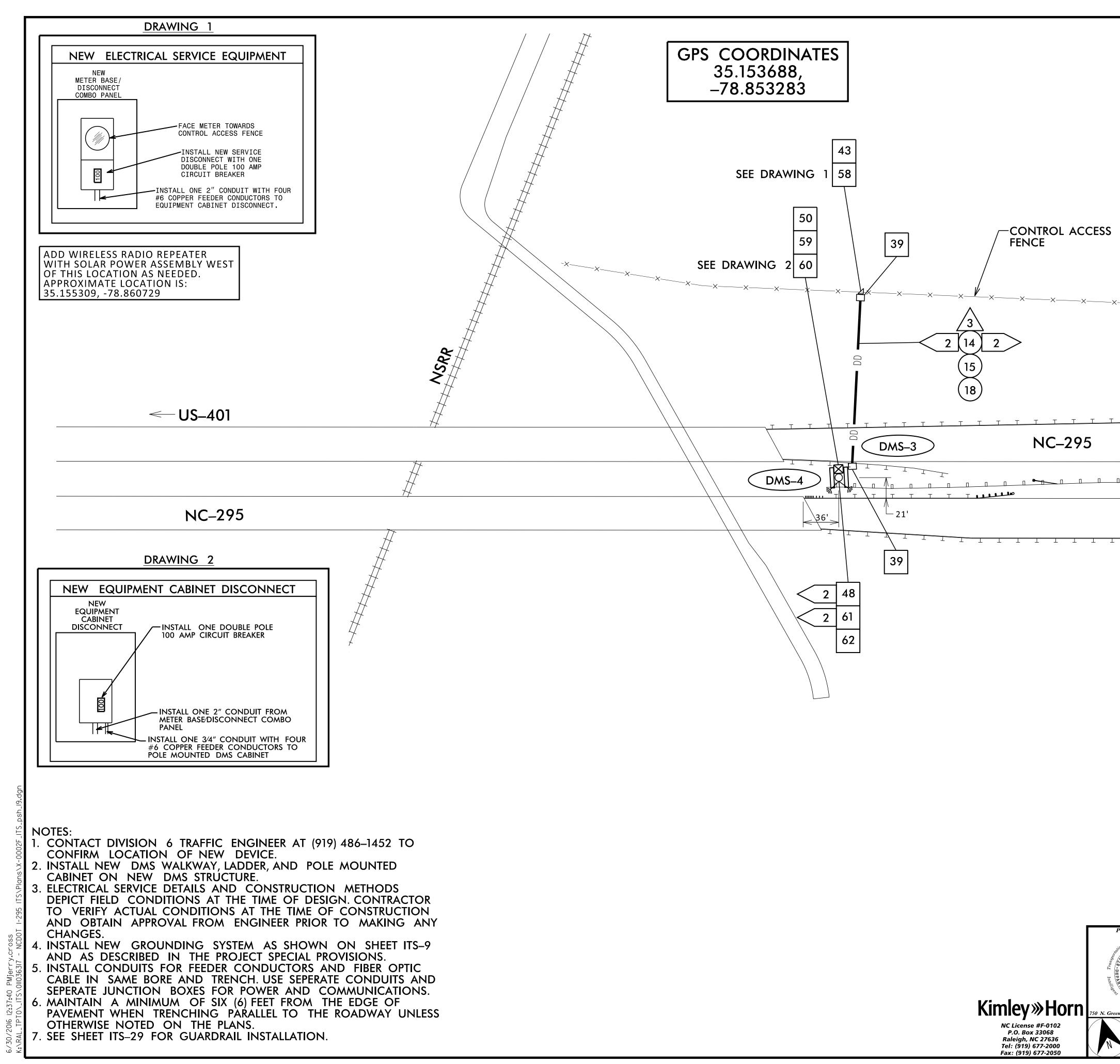


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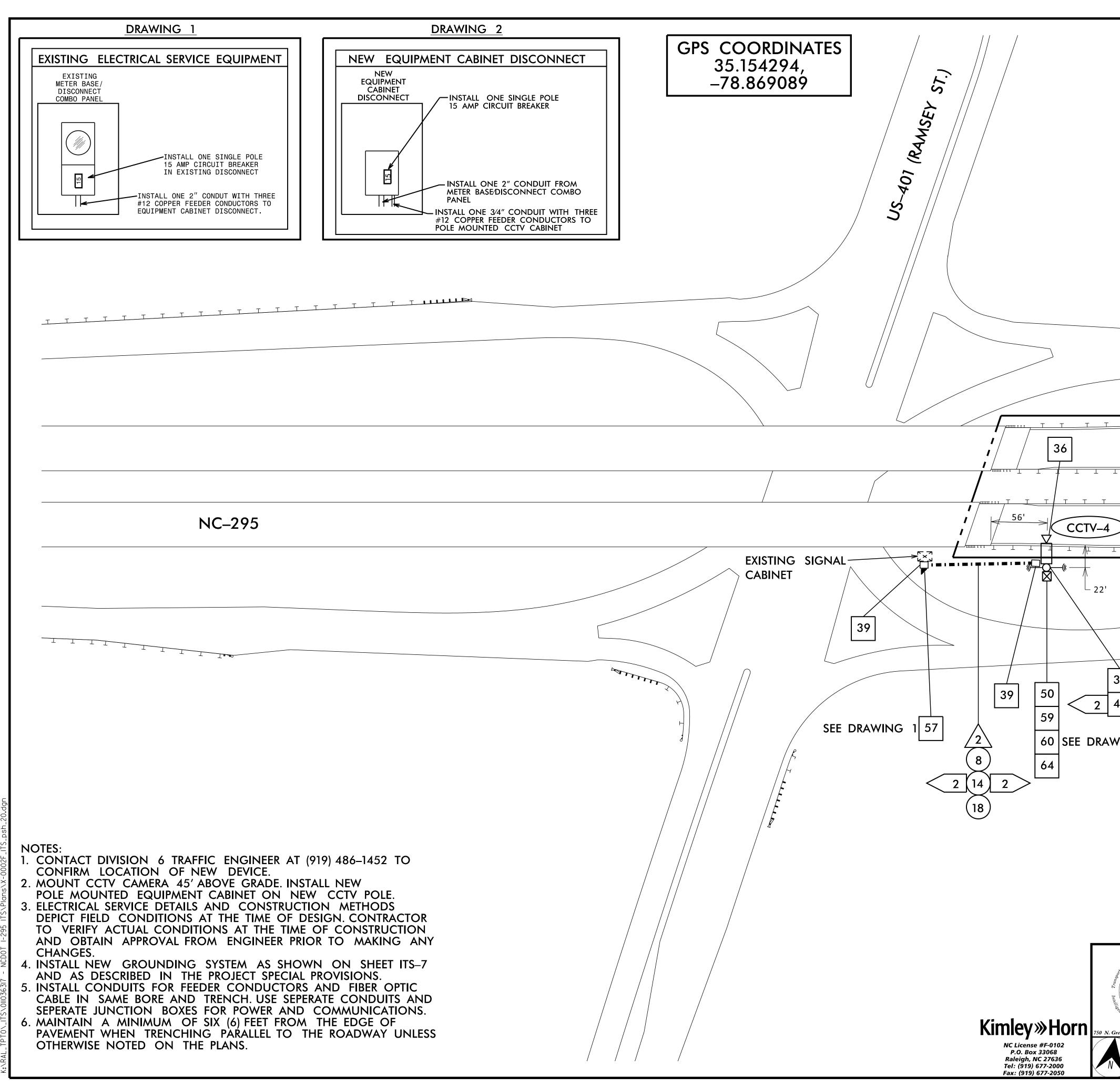
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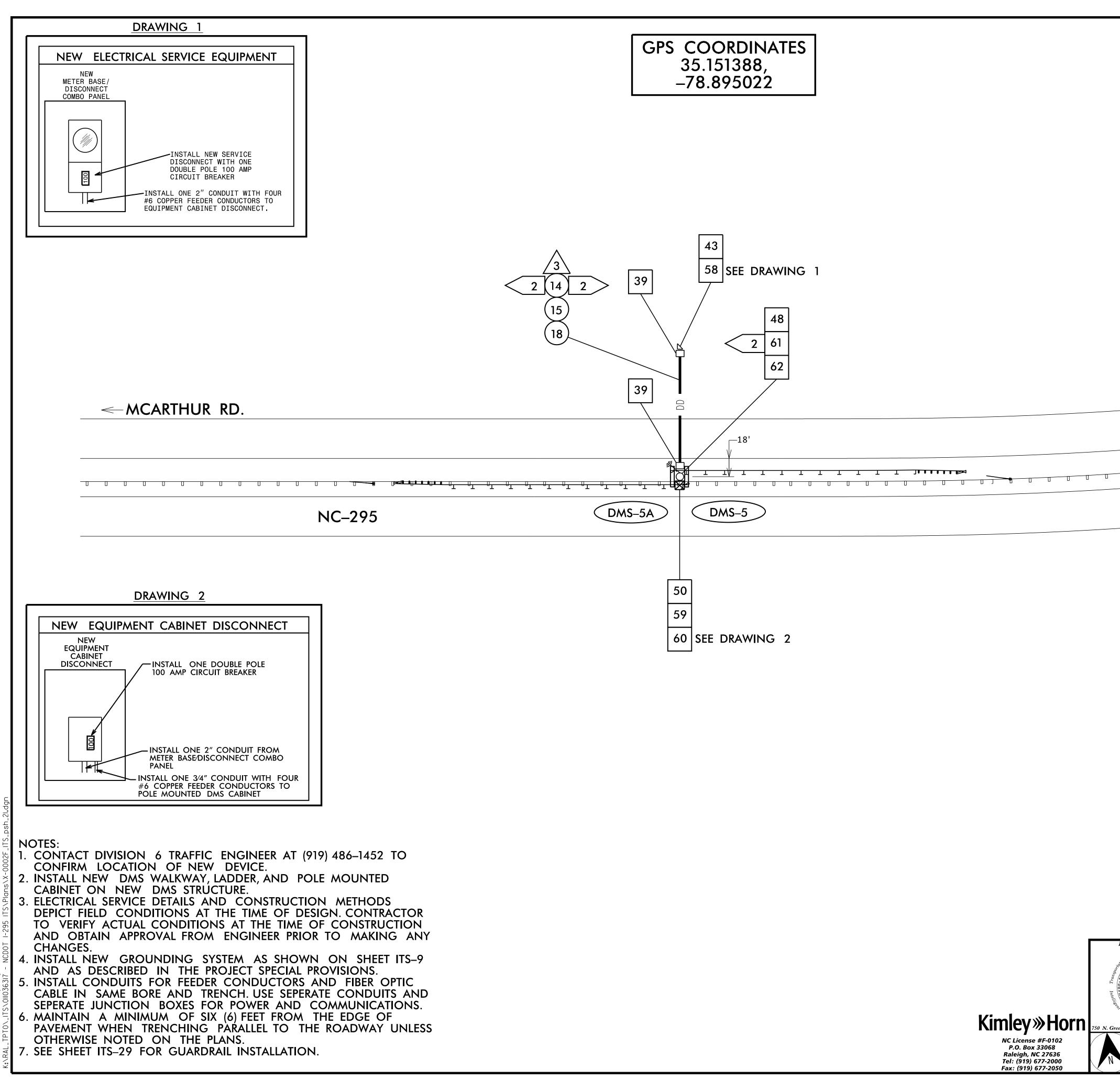


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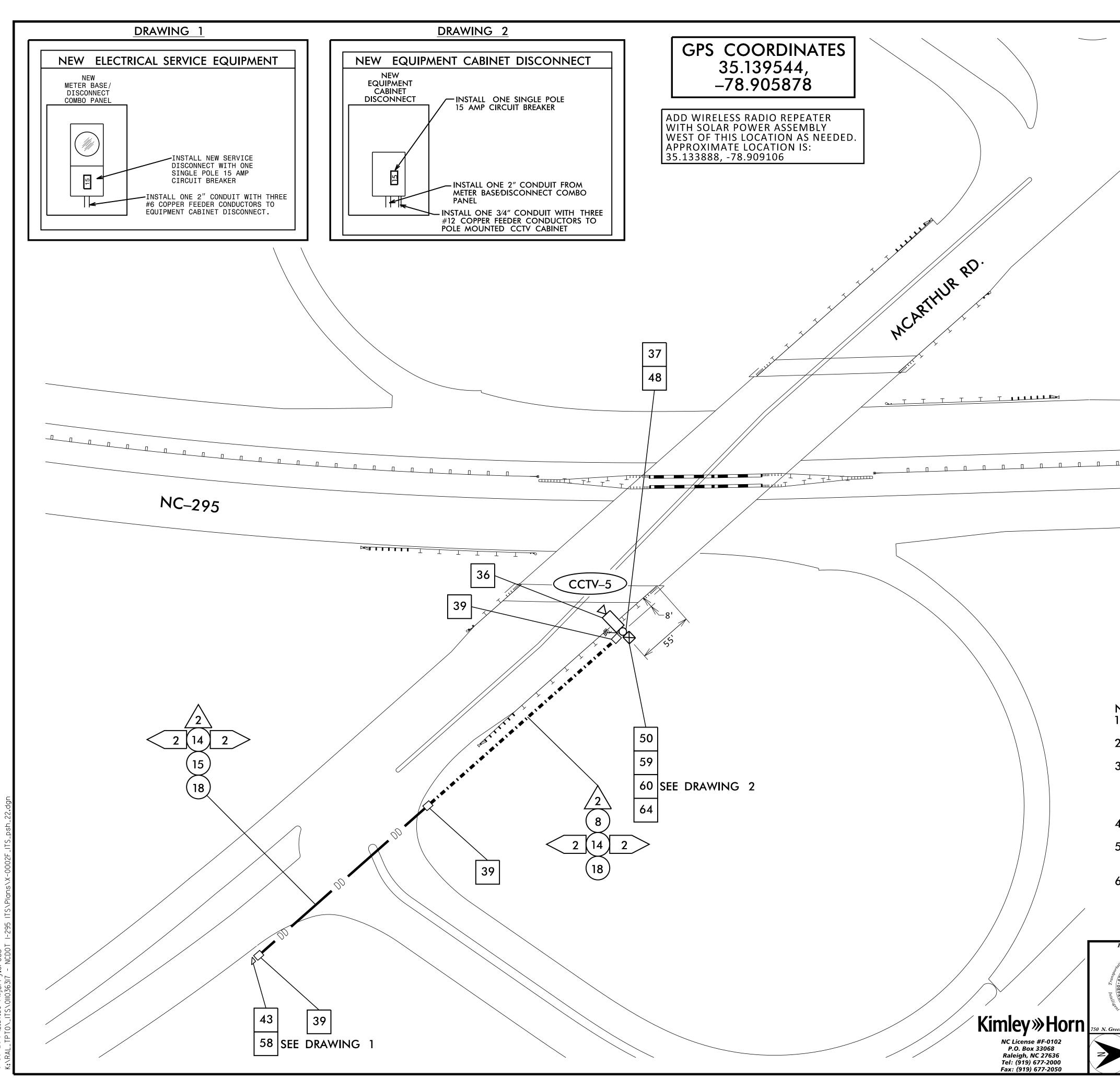
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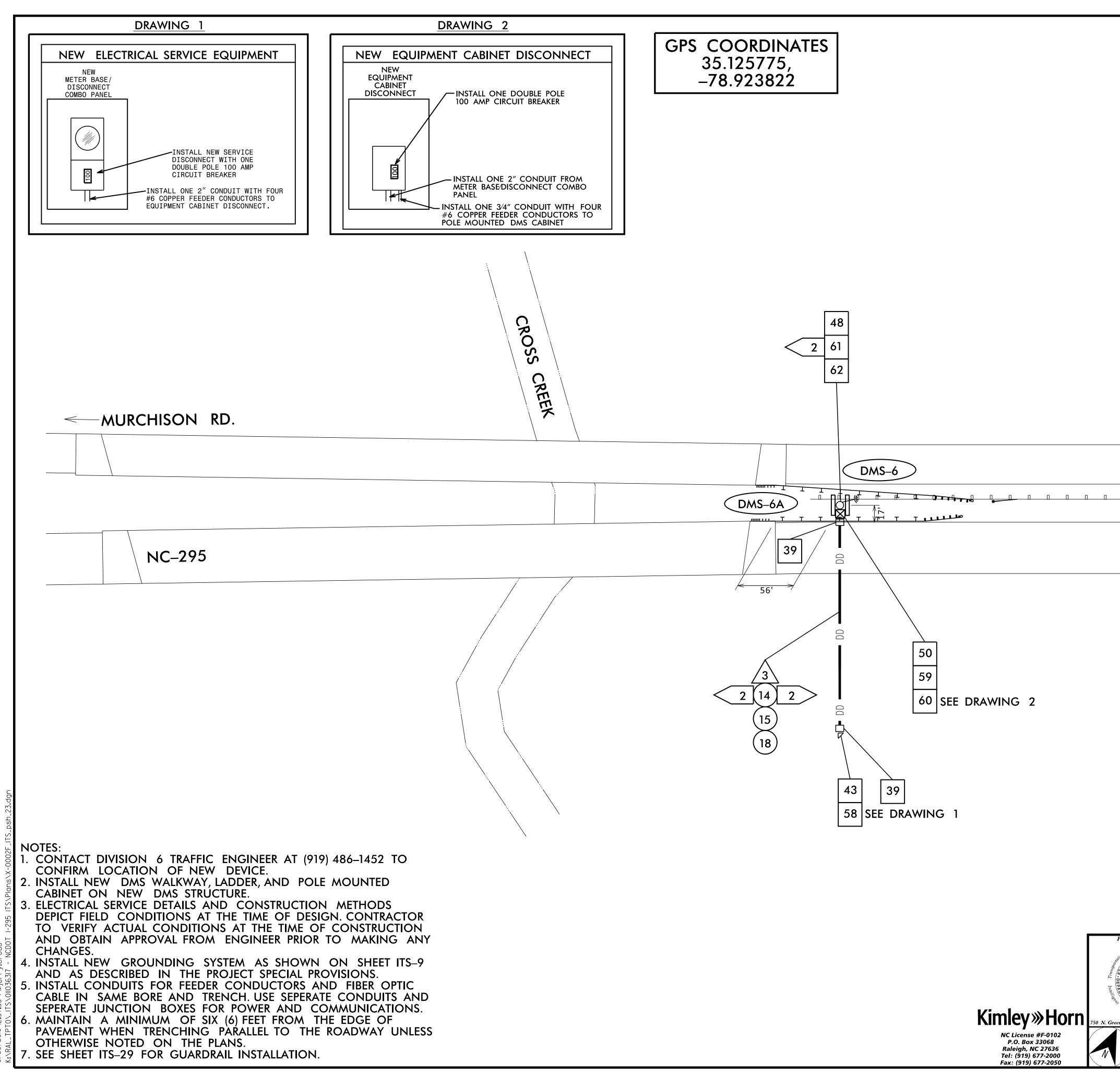


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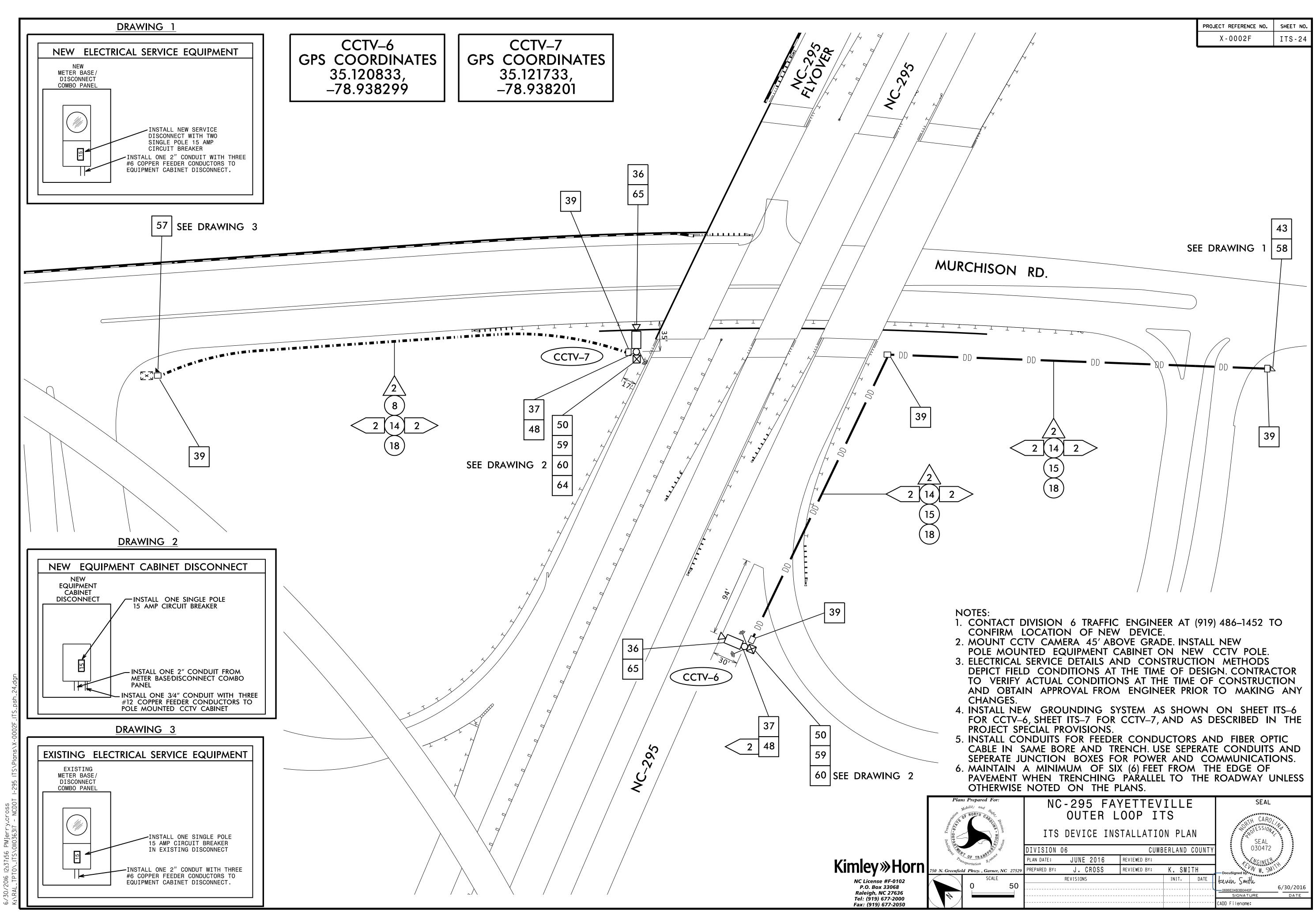


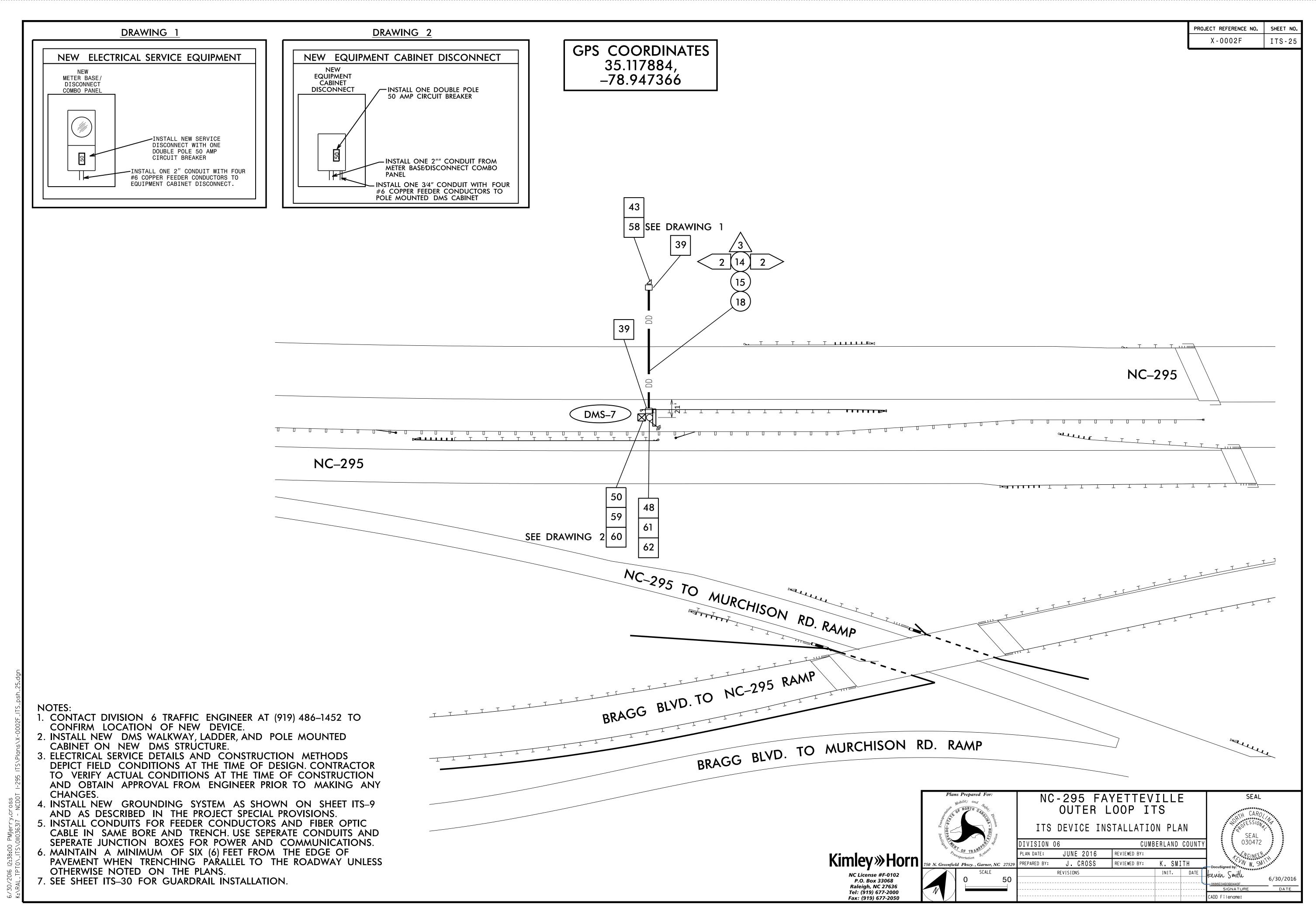
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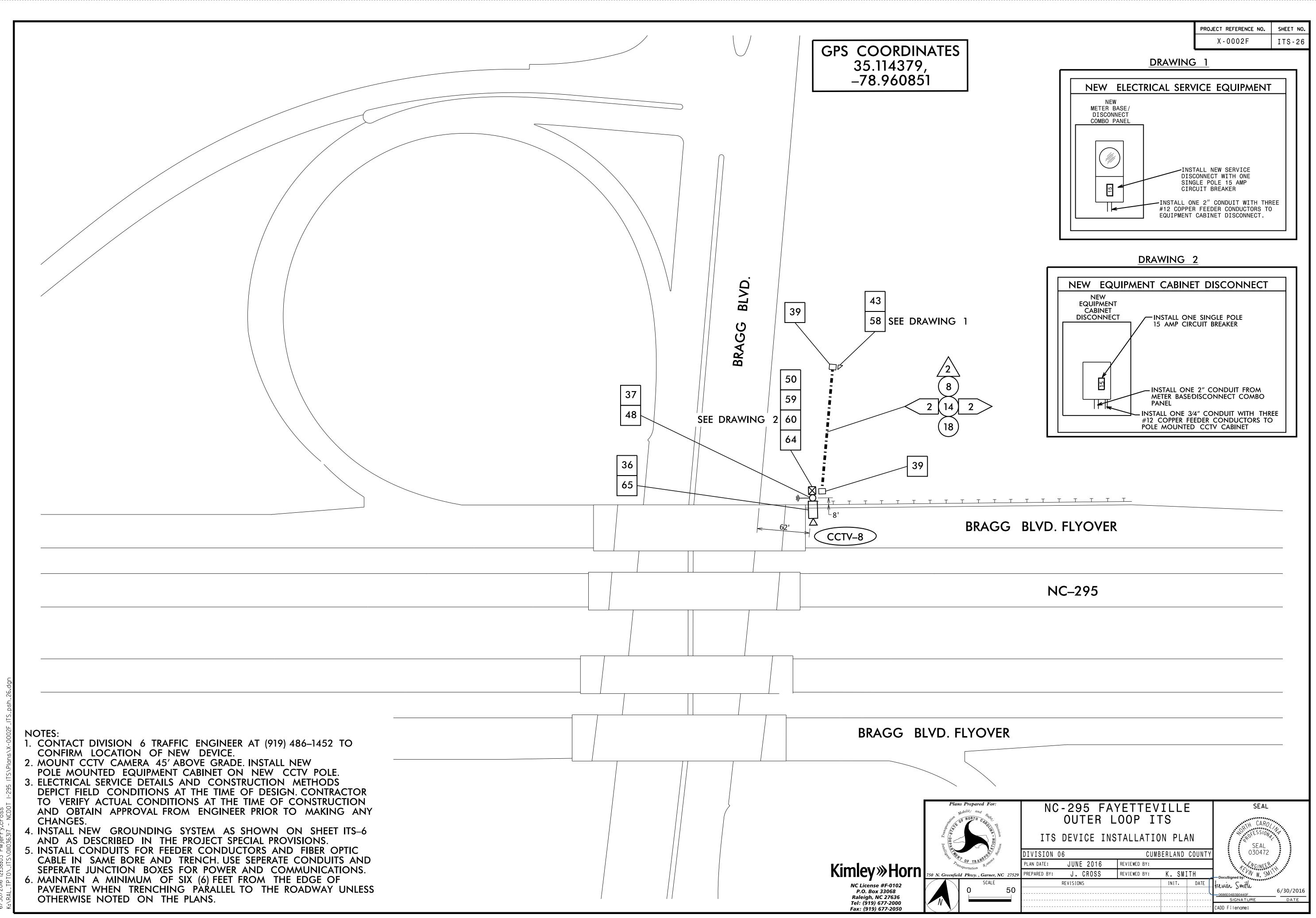
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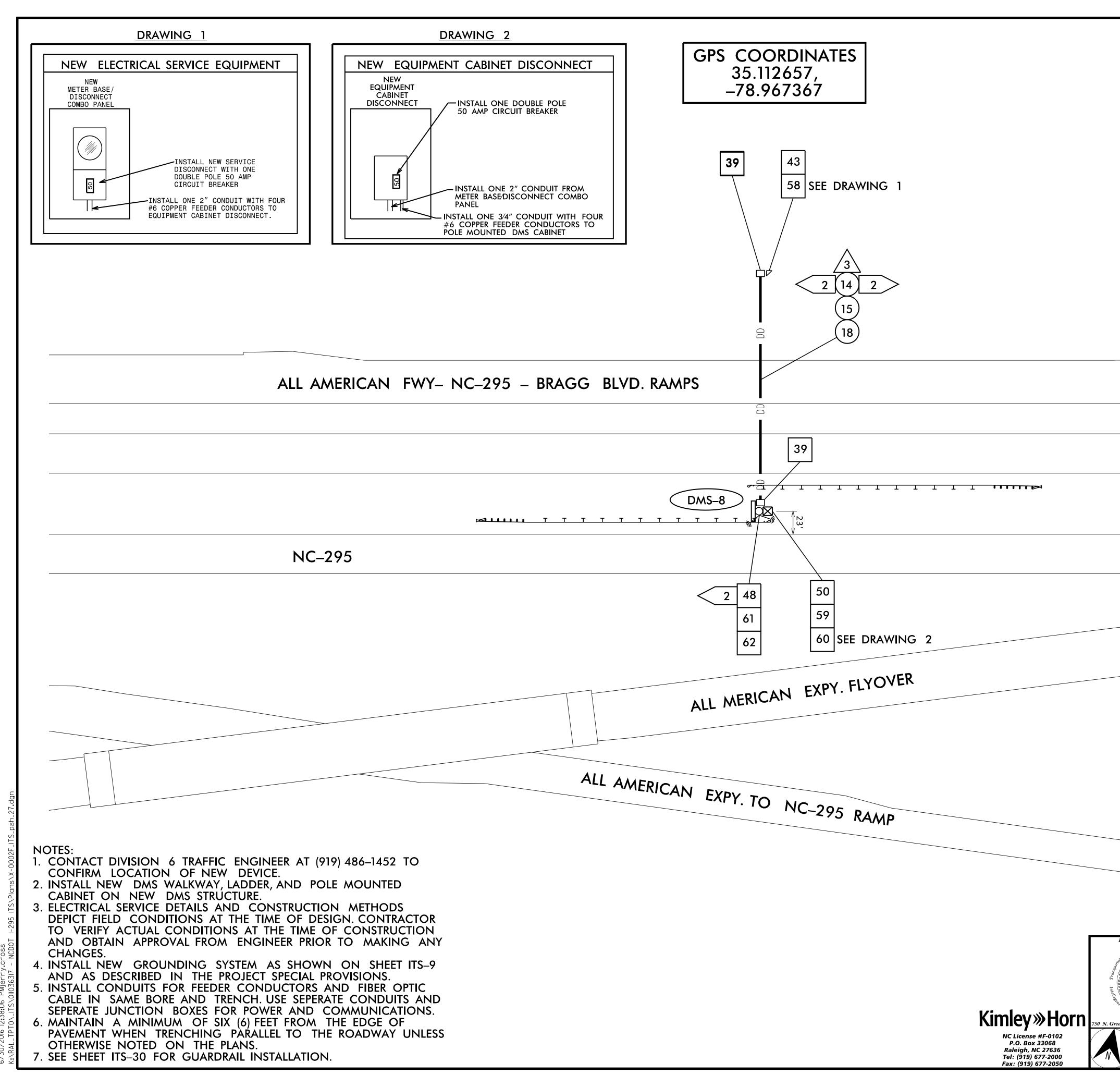


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Greenfield Pkwy., Garner, NC 27529 PREPARED BY: J. CROSS REVIEWED BY: K. SMI SCALE REVISIONS INIT.	ITH DATE	Docusigned by W. SM	
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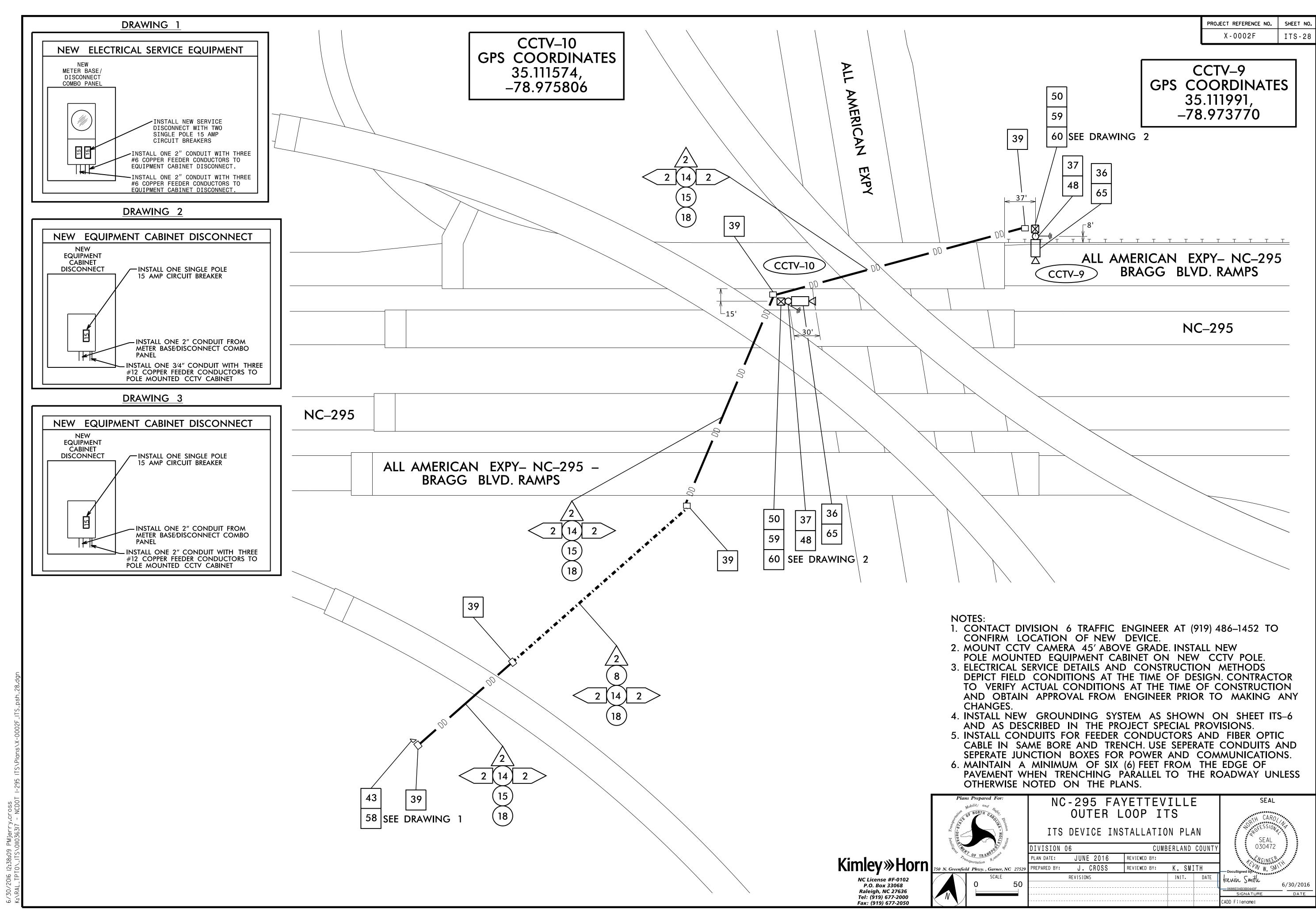


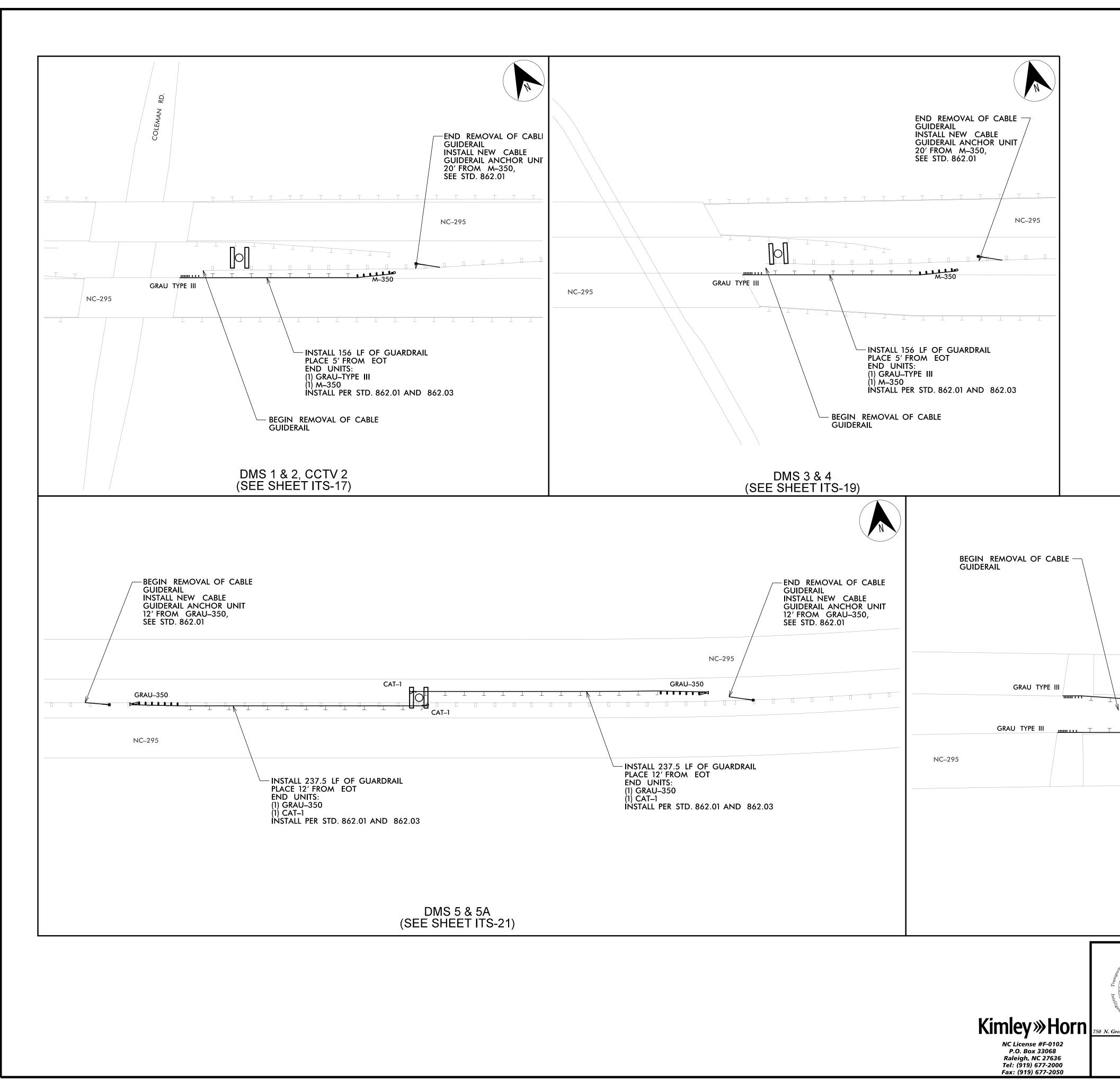




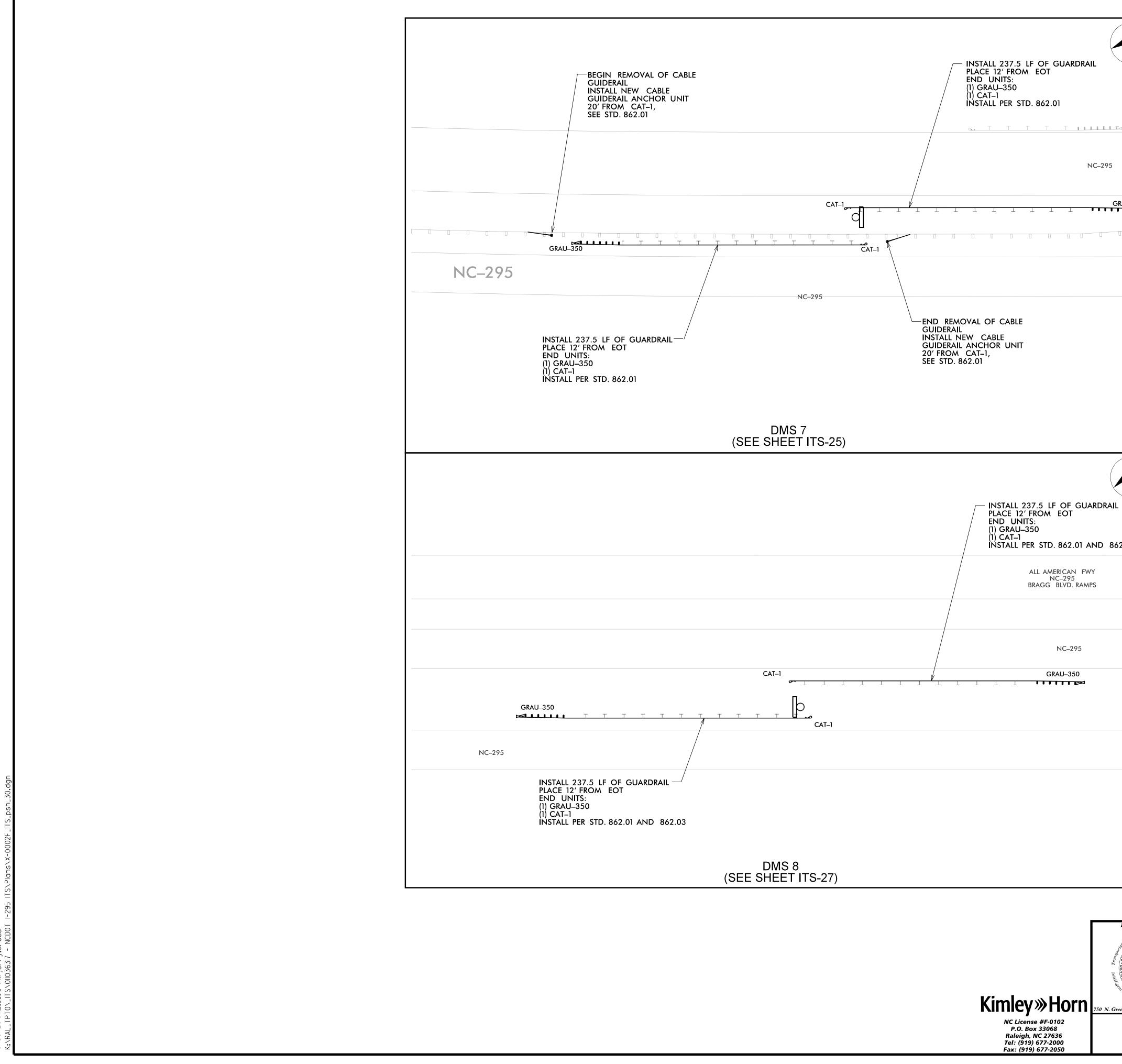
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scenfield Pkwy., Garner, NC 27529	PREPARED BY: J. CROSS REVIEWED BY: K. SMI REVISIONS INIT.	TH DATE LEWIN Smith	
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/ INSTALL 162.5		
PLACE 5' FRON END UNITS: (1) GRAU–TYPE		
(1) M–350 INSTALL PER ST	ID. 862.01 AND 862.03	
	—END REMOVAL OF CABLE GUIDERAIL	
	INSTALL NEW CABLE GUIDERAIL ANCHOR UNIT 20' FROM M–350,	
	SEE STD. 862.01	
	NC–295	
INSTALL 162.5 LF OF GUARDR PLACE 5' FROM EOT END UNITS:	AIL	
(1) GRAU–TYPE III (1) M–350		
ÍŃSTALL PER STD. 862.01 AND	862.03	
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	CUMBERLAND COUNTY	
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SCALE REVISIONS 0 50	INIT. DATE Levin Smith	6/30/2016
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