

**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.**

- 1 INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS
- 2 INSTALL 4-WIRE COPPER FEEDER CONDUCTORS
- 3 INSTALL 3-WIRE COPPER FEEDER CONDUCTORS
- 4 INSTALL SMFO CABLE
- 5 INSTALL CAT5e 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 HEAT-SHRINK TUBING
- 13 INSTALL HEAT-SHRINK TUBING RETROFIT KIT
- 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 ENTRANCE
- 22 INSTALL NEW CONDUIT INTO NEW CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUBOUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO POLE MOUNTED CABINET
- 26 TERMINATE FIBER-OPTIC CABLE ON INTERCONNECT CENTER IN CCTV EQUIPMENT CABINET
- 27 INSTALL NEW ETHERNET EDGE SWITCH IN 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 SPlice CABINET
- 32 MODIFY EXISTING SPlice ENCLOSURE
- 33 REMOVE EXISTING SPlice CABINET
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY

- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL STANDARD (ELECTRICAL) JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 INSTALL SPECIAL OVERSIZED 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
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL CELL MODEM
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE), EXCEPT AS NOTED ON PLANS
- 54 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 55 LASH CABLE(S) TO EXISTING SIGNAL /COMMUNICATION CABLE
- 56 LASH CABLES TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE
- 59 BOND TRACER WIRE TO EQUIPMENT GROUND BUS ON ONE END
- 60 BOND MESSENGER TO POLE GROUND
- 61 BOND RISER TO POLE GROUND
- 62 INSTALL DMS ASSEMBLY
- 63 INSTALL POLE MOUNTED CCTV CABINET
- 64 INSTALL NEW EQUIPMENT CABINET DISCONNECT
- 65 INSTALL JUNCTION BOX MARKERS
- 66 INTERCEPT EXISTING JUNCTION BOX
- 67 INSTALL CCTV CAMERA EXTENSION POLE
- 68 INSTALL 6X6 WOOD PEDESTAL
- 69 INSTALL 2070E CONTROLLER

LEGEND

- NEW FIBER OPTIC COMMUNICATIONS CABLE
- EXISTING COMMUNICATIONS CABLE
- EXISTING COMMUNICATIONS CABLE TO BE REMOVED
- NEW CONDUIT
- EXISTING CONDUIT
- NEW DIRECTIONAL DRILLED CONDUIT
- NEW GUARDRAIL
- NEW CHAIN LINK FENCE
- EXISTING METAL POLE WITH MASTARM
- NEW METAL POLE WITH MASTARM
- EXISTING RIGHT OF WAY
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- NEW OVERSIZED HEAVY DUTY JUNCTION BOX WITH SPlice ENCLOSURE
- EXISTING OVERSIZED HEAVY DUTY JUNCTION BOX WITH NEW SPlice ENCLOSURE
- NEW SPECIAL OVERSIZED JUNCTION BOX WITH SPlice ENCLOSURE
- EXISTING SPECIAL OVERSIZED JUNCTION BOX WITH NEW SPlice ENCLOSURE
- EXISTING SPECIAL OVERSIZED JUNCTION BOX WITHOUT SPlice ENCLOSURE
- SNOW SHOE
- NEW WOOD POLE
- EXISTING WOOD POLE
- NEW SPlice ENCLOSURE
- EXISTING SPlice ENCLOSURE
- NEW METAL POLE
- EXISTING METAL POLE
- NEW DMS
- EXISTING DMS
- NEW CCTV CAMERA ASSEMBLY
- EXISTING CCTV CAMERA ASSEMBLY
- NEW STANDARD GUY ASSEMBLY
- EXISTING STANDARD GUY ASSEMBLY
- NEW SIGNAL CABINET
- EXISTING SIGNAL CABINET
- NEW MASTER SIGNAL CABINET
- EXISTING MASTER SIGNAL CABINET
- NEW YAGI ANTENNA (SINGLE)
- NEW ELECTRICAL SERVICE
- EXISTING ELECTRICAL SERVICE
- SIGNAL POLE
- CCTV/DMS NUMBER
- SIGNAL INVENTORY NUMBER

ATTACHMENT POINT:

- DISTANCE ABOVE INCHES REFERENCE POINT
- REFERENCE POINT DISTANCE BELOW INCHES

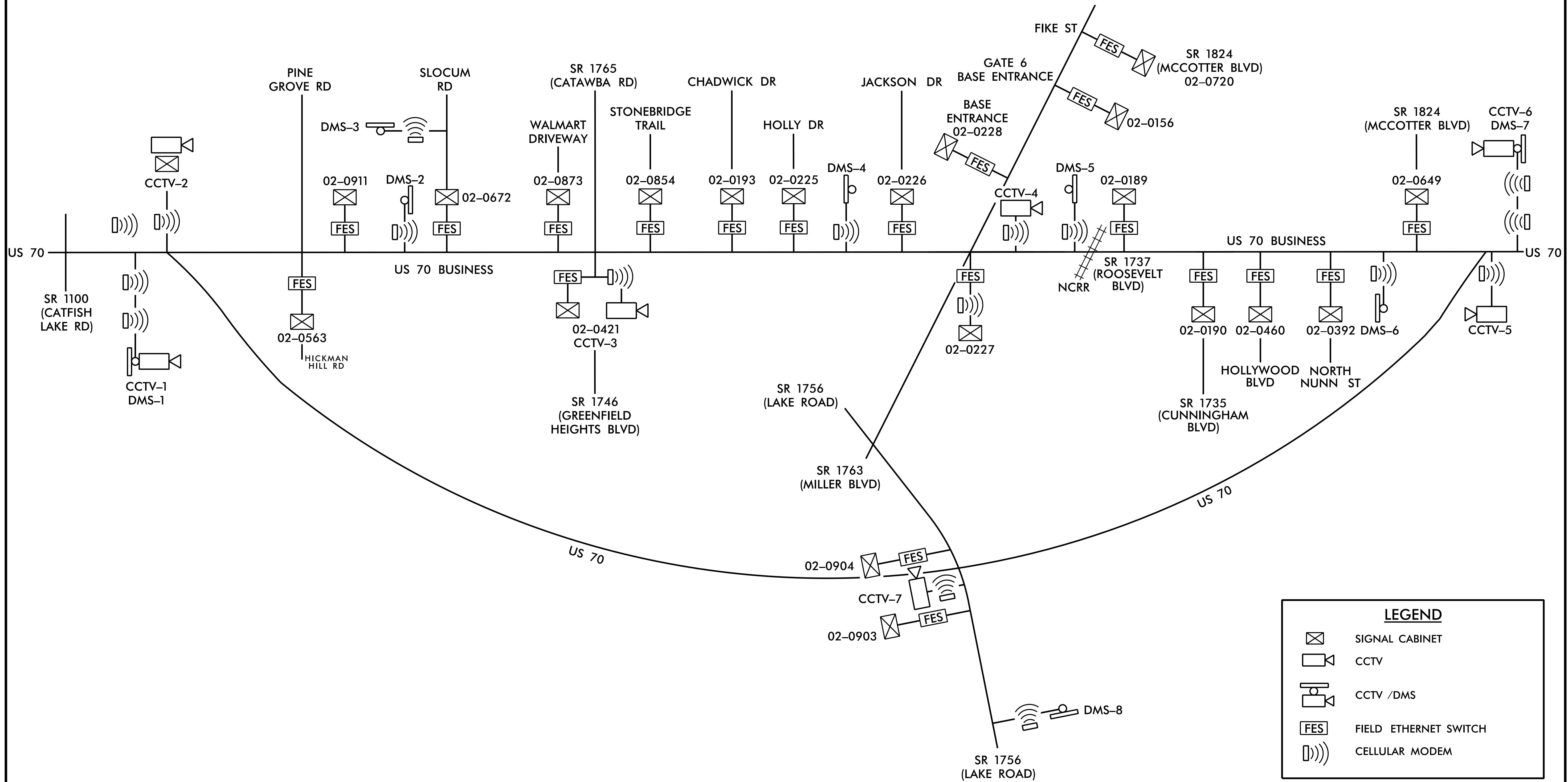
CONSTRUCTION NOTE SYMBOLOGY KEY

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CONSTRUCTION NOTES AND LEGEND		
	Division 02 PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	Craven Co. Havelock REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
REVISIONS			Documented by: <i>Notasha R. Simmons</i> 12/7/2018 SIGNATURE DATE CADD Filename: R1015 scp 01.dgn



LEGEND	
	SIGNAL CABINET
	CCTV
	CCTV / DMS
	FIELD ETHERNET SWITCH
	CELLULAR MODEM

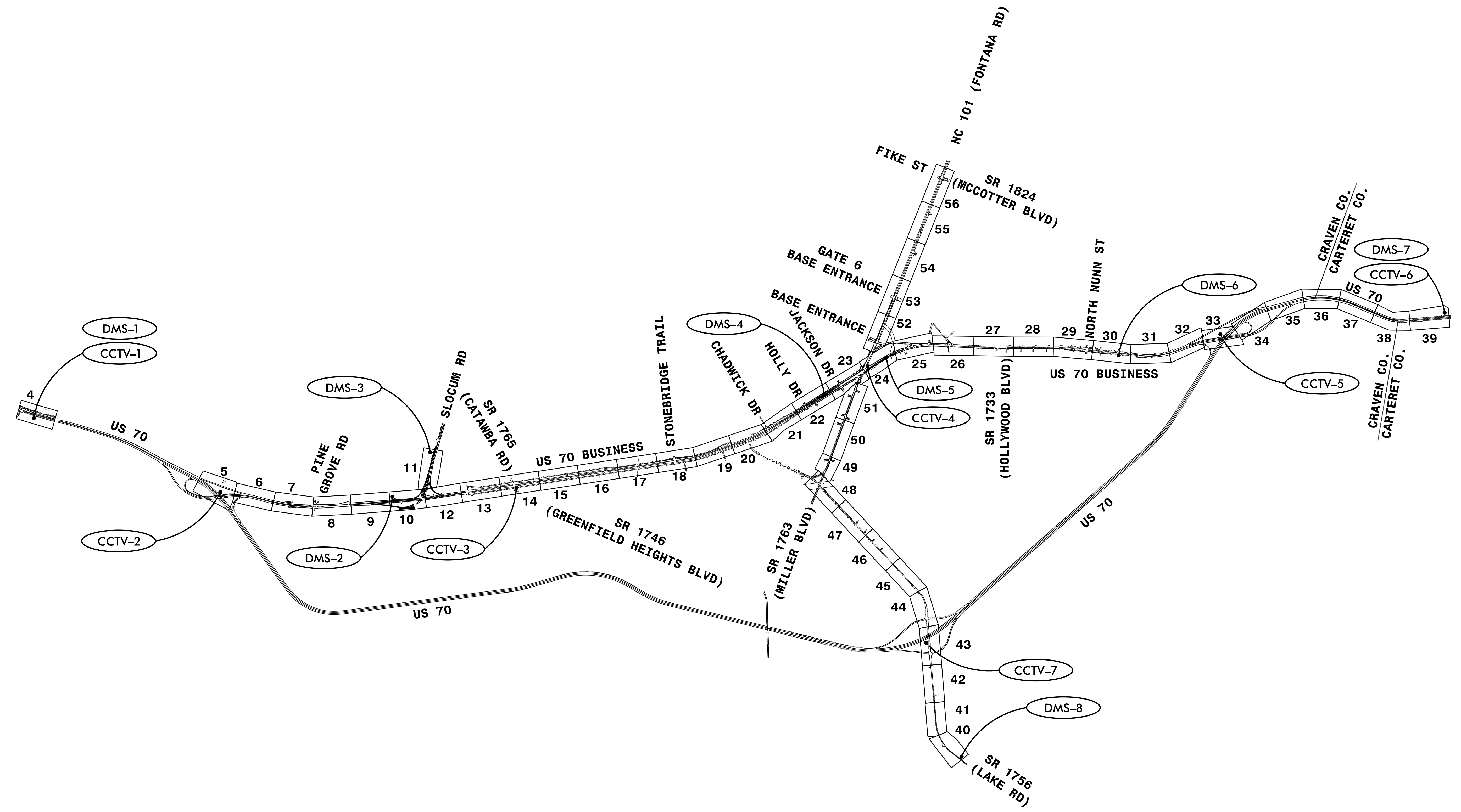
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTES:



1. THIS BLOCK DIAGRAM IS APPROXIMATE REPRESENTATION OF CONNECTIONS. SEE SPLICE DIAGRAMS SHEETS FOR DETAILED CONNECTIONS.
2. CONTACT NCDOT FOR NETWORK CONFIGURATION WHICH IS BUT NOT LIMITED TO IP ADDRESS, VLAN NUMBER, ACL AND PORT CONFIGURATION.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH NCDOT PERSONNEL TO OBTAIN ALL RELEVANT NETWORK INFORMATION BEFORE TESTING.
4. ALL SWITCHES SHALL BE CONFIGURED PER NCDOT SECURITY REQUIREMENTS.

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

<p>Plans Prepared for:</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p align="center">US 70 HAVELOCK BYPASS NETWORK BLOCK DIAGRAM</p>		<p align="center">SEAL</p>					
	<p>Division 02 Craven Co. Havelock</p> <p>PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons</p>	<p>SCALE</p> <p>NONE</p>		<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>DocuSigned by: 12/7/2018 SIGNATURE DATE CADD Filename:</p>	REVISIONS	INIT.	DATE	
REVISIONS	INIT.	DATE						

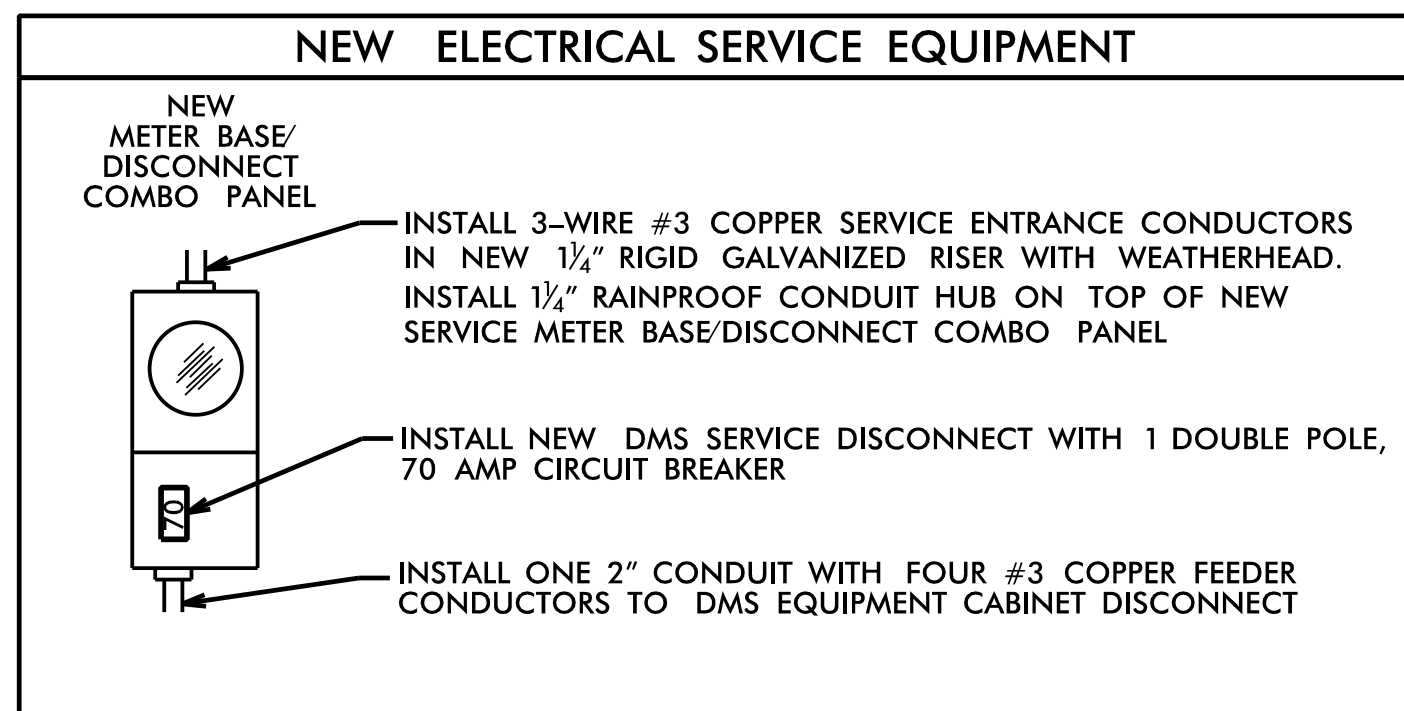


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

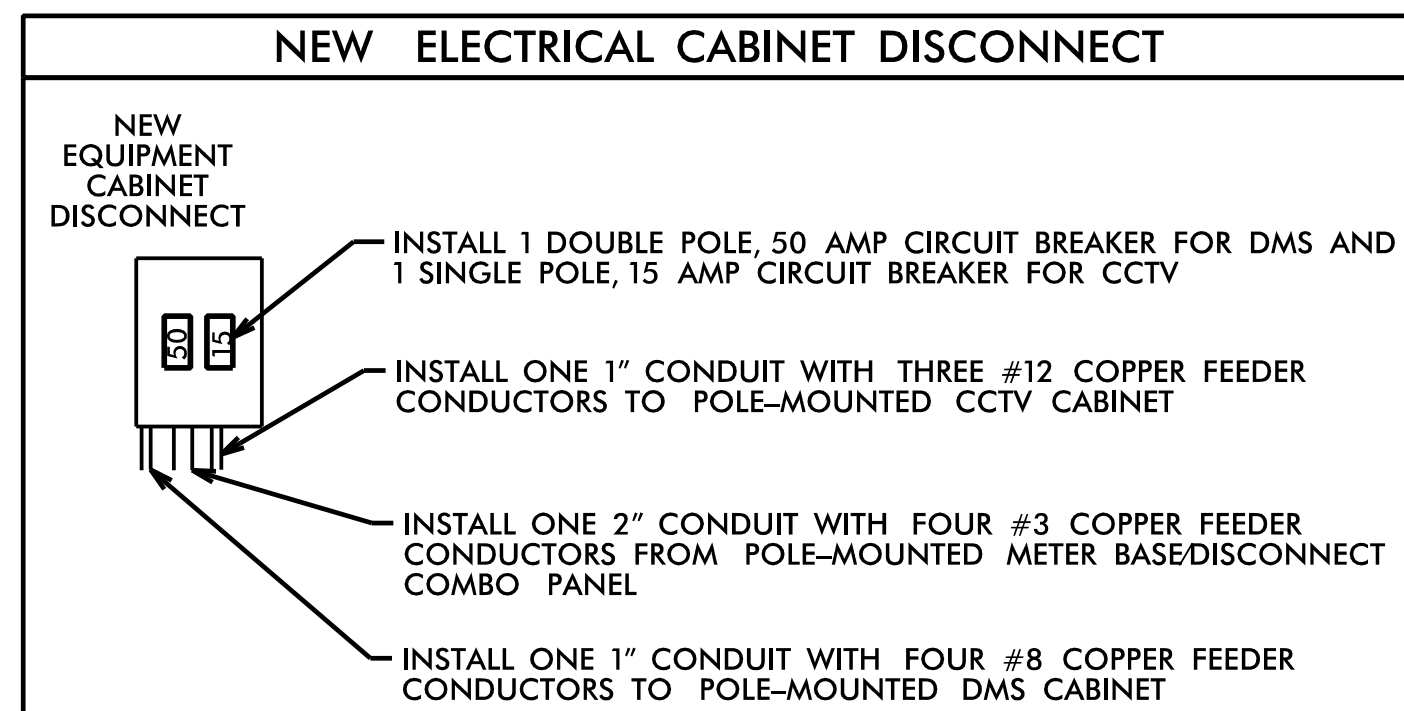
 <small>250 N. Greenfield Place, Garner, NC 27529</small>	US 70 HAVELOCK BYPASS KEY SHEET		 <small>SEAL 031464 NATASHA R. SIMMONS</small>
	<small>Division 02</small> Craven Co. Havelock	<small>PLAN DATE:</small> August 2018	
<small>PREPARED BY:</small> N.K. Vlanich	<small>REVIEWED BY:</small> N.R. Simmons	<small>DocuSigned by: Natasha R. Simmons 12/7/2018</small>	
<small>SCALE</small> NONE	<small>REVISIONS</small>	<small>INIT.</small>	<small>DATE</small>
<small>CADD File name: R1015_scp_03.dgn</small>			

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

DRAWING 1



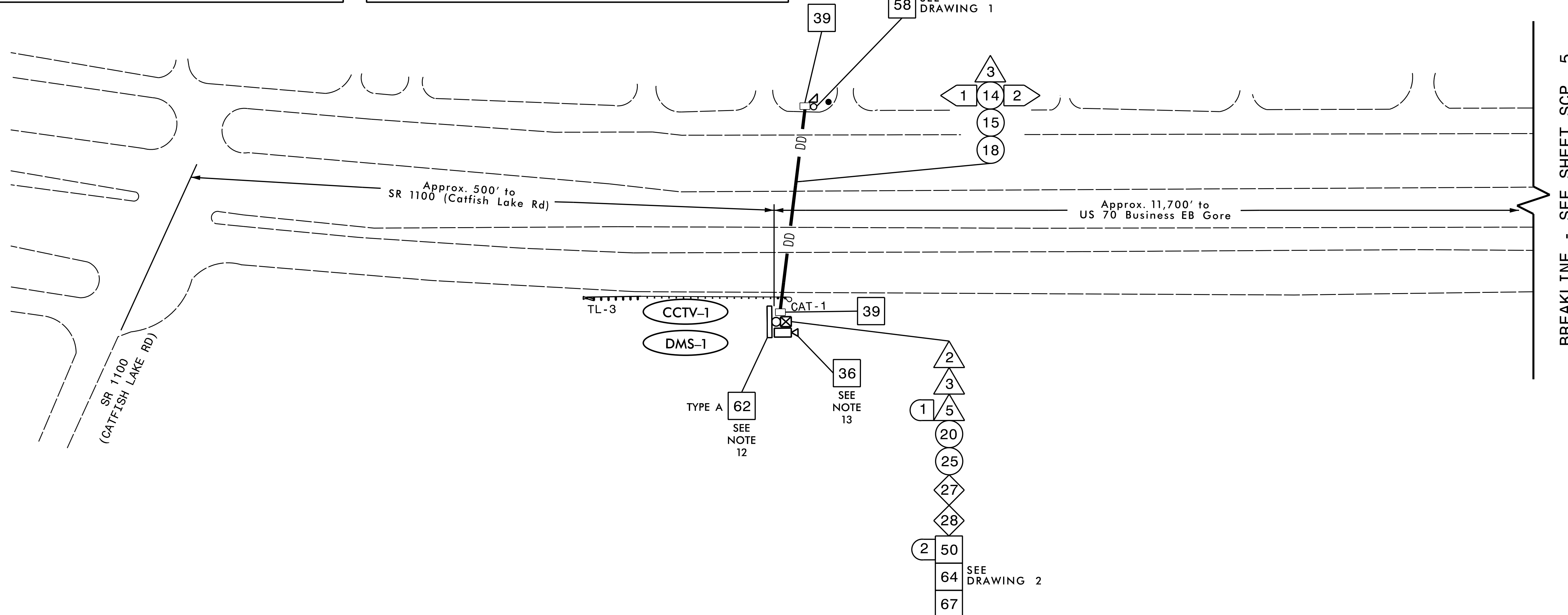
DRAWING 2



CCTV-1 /DMS-1 GPS COORDINATES

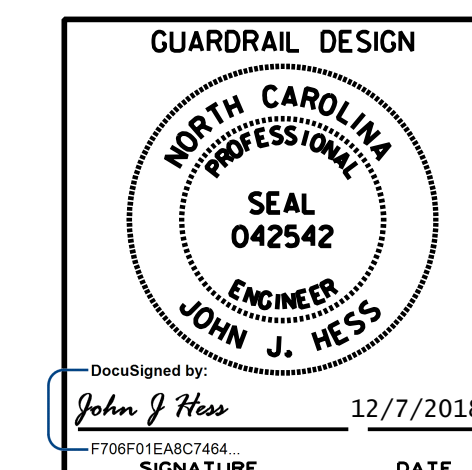
N 34° 58.065'
W 76° 58.020'

ELECTRICAL SERVICE LOCATION TO BE DETERMINED BY DUKE ENERGY IN FIELD.



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.
12. INSTALL A NEW DMS WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
13. INSTALL CCTV ON CCTV EXTENSION POLE.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

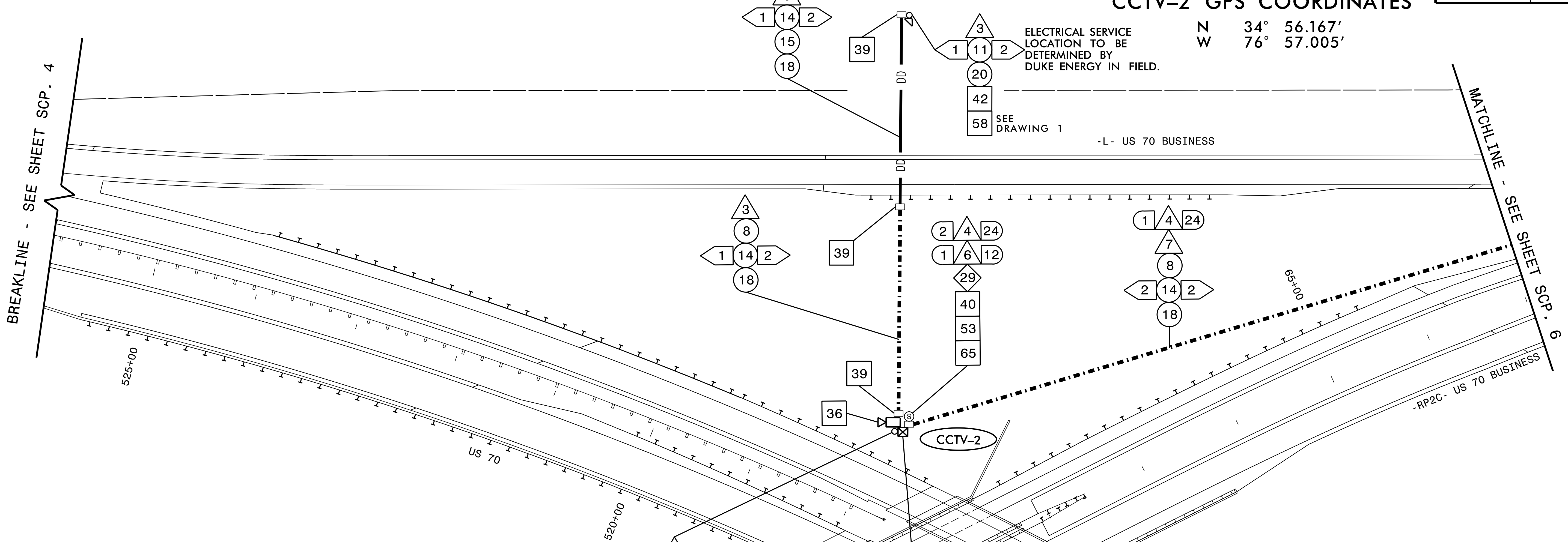
<p>Plans Prepared for:</p> <p>250 N. Greenfield Place - Garner, NC 27529</p>	<p>US 70 HAVELOCK BYPASS CABLE ROUTING PLAN</p>									
	<p>Division 02 Craven Co. Havelock</p> <p>PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	INIT.	DATE			
NO.	DESCRIPTION	INIT.	DATE							
<p>HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997</p>	<p>SCALE</p> <p>0 50</p> <p>1"=50'</p>	<p>CADD Filename: R1015_scp_04.dgn</p>								

CCTV-2 GPS COORDINATES

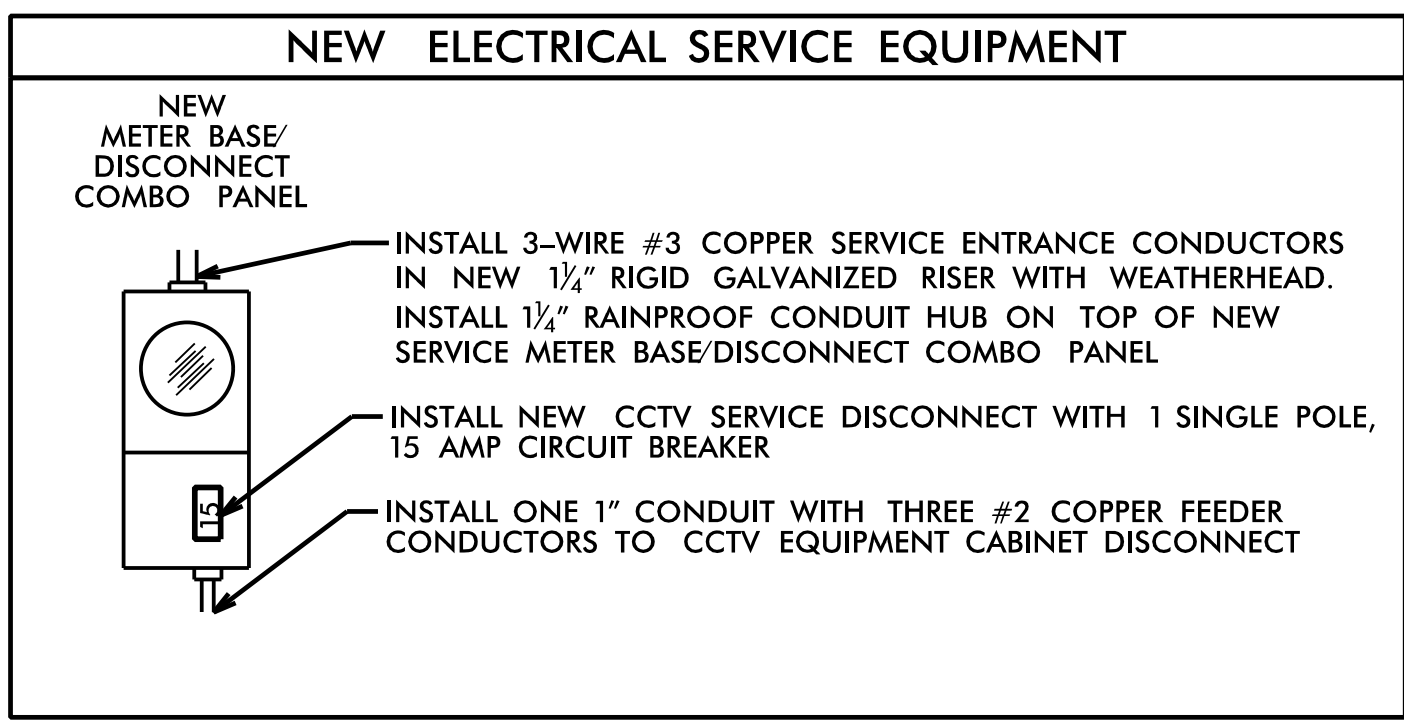
ELECTRICAL SERVICE LOCATION TO BE DETERMINED BY DUKE ENERGY IN FIELD.
 N 34° 56.167'
 W 76° 57.005'

BREAKLINE - SEE SHEET SCP. 4

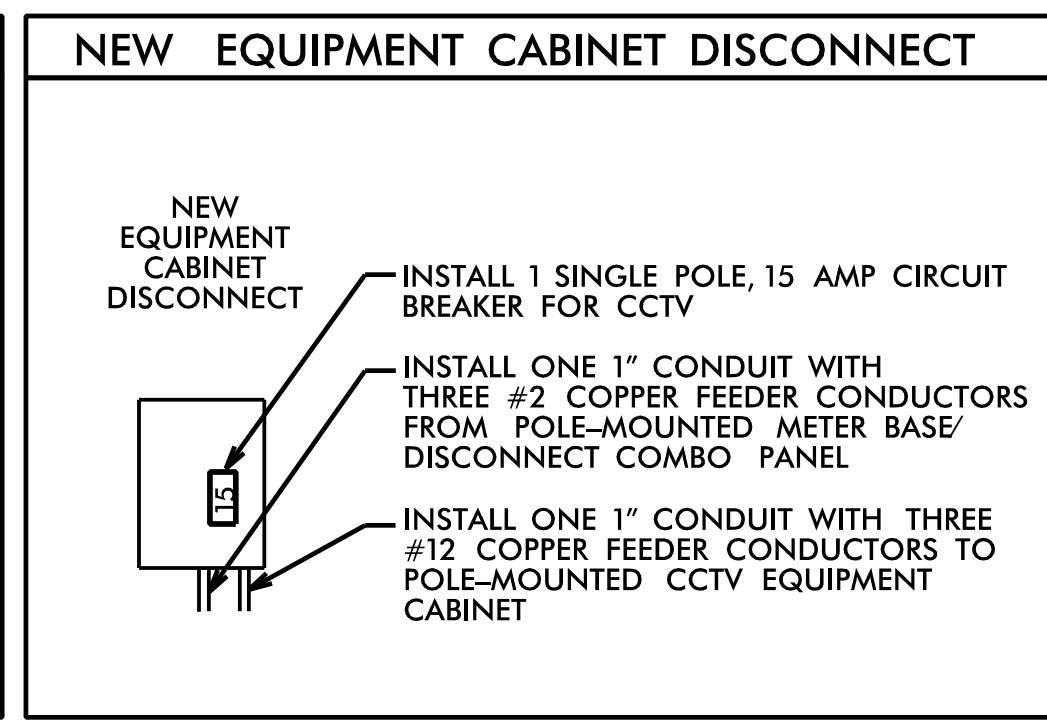
MATCHLINE - SEE SHEET SCP. 6



DRAWING 1



DRAWING 2



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEMS. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

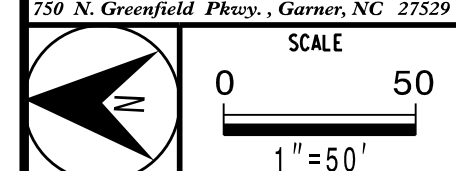
Plans Prepared for:

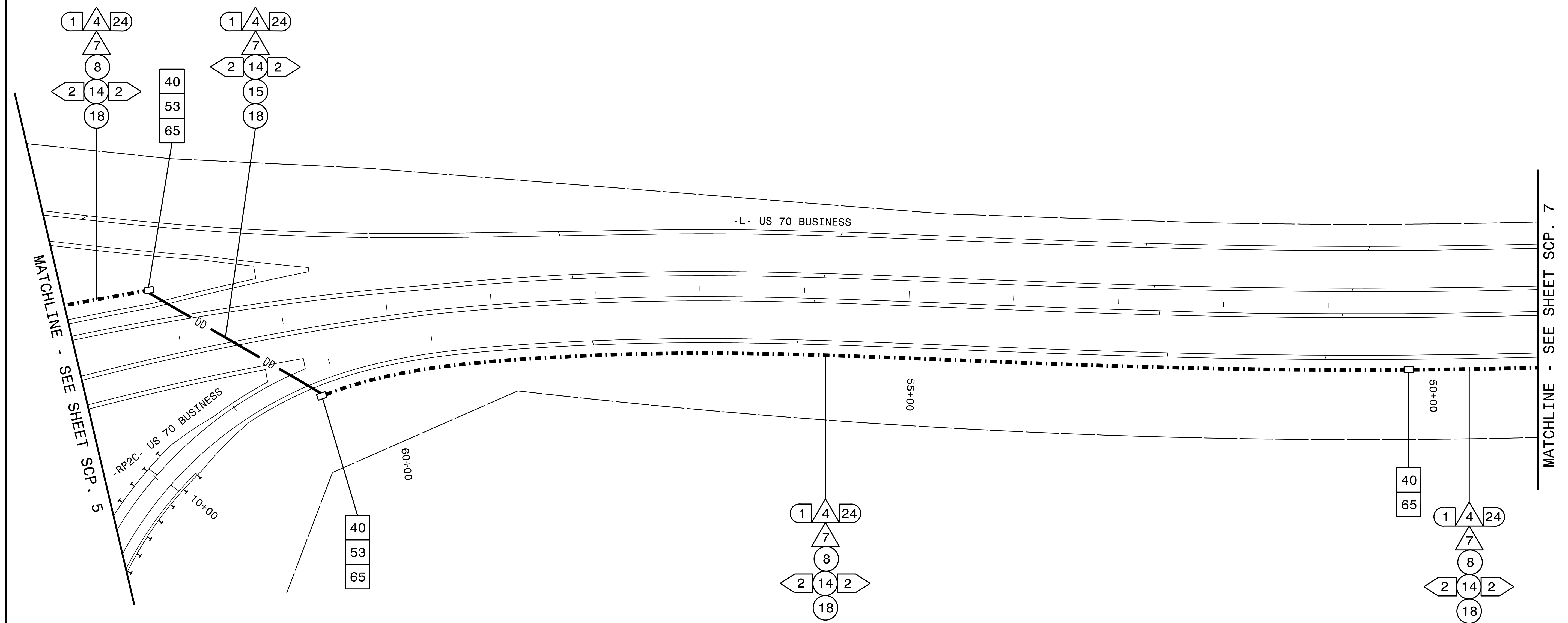
250 N. Greenfield Place, Garner, NC 27529

US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	
Division 02	Craven Co. Havelock
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL

DocuSigned by:
 Natasha R. Simmons 12/7/2018
 FIDAB0F34D454
 SIGNATURE DATE
 CADD Filename: R1015 scp.05.dgn





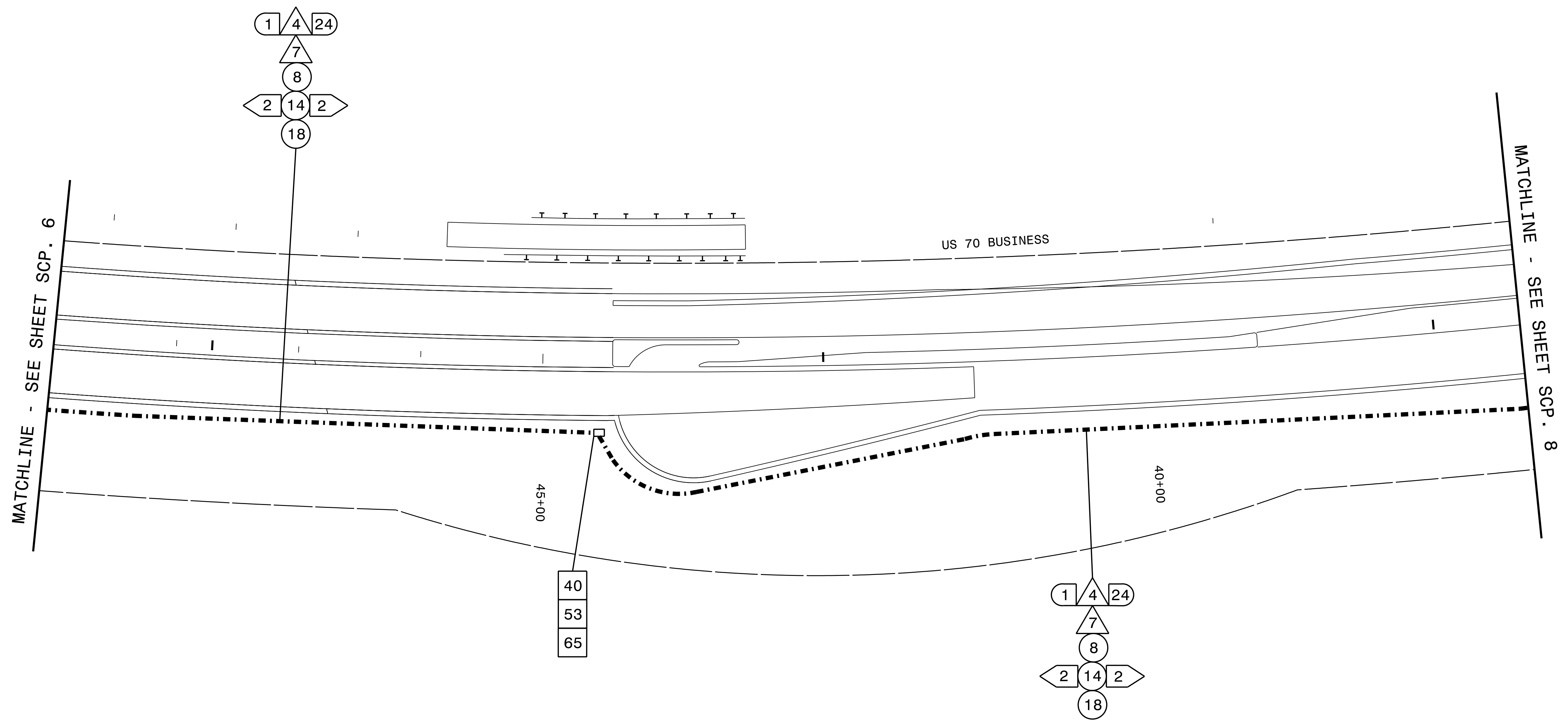
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons		
REVISIONS	INIT.	DATE	
DocuSigned by: Natasha R. Simmons 12/7/2018			SEAL NATASHA R. SIMMONS
CADD Filename: R1015 scp.06.dgn			



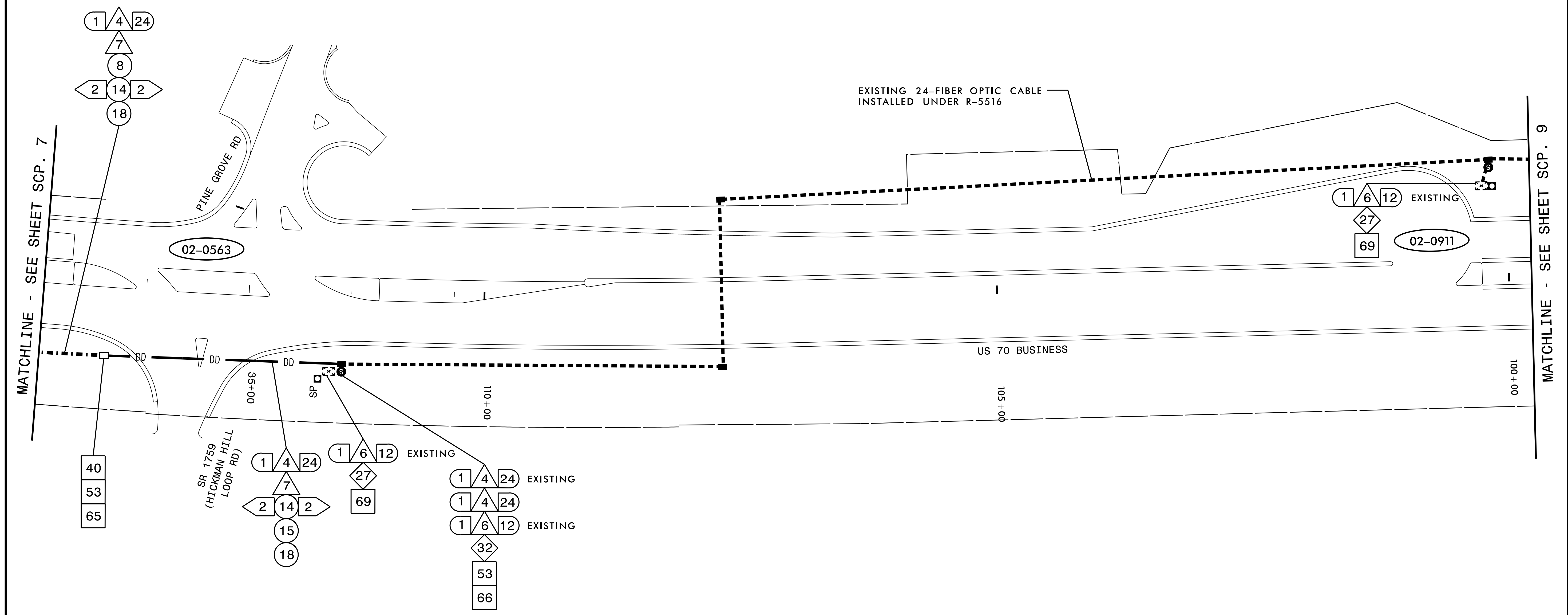
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS							
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	INIT.	DATE			
NO.	DATE	INIT.	DATE							
SCALE 		DocuSigned by: Natasha R. Simmons 12/7/2018 PED480F3AD445A SIGNATURE DATE CADD Filename: R1015 scp.07.dgn								



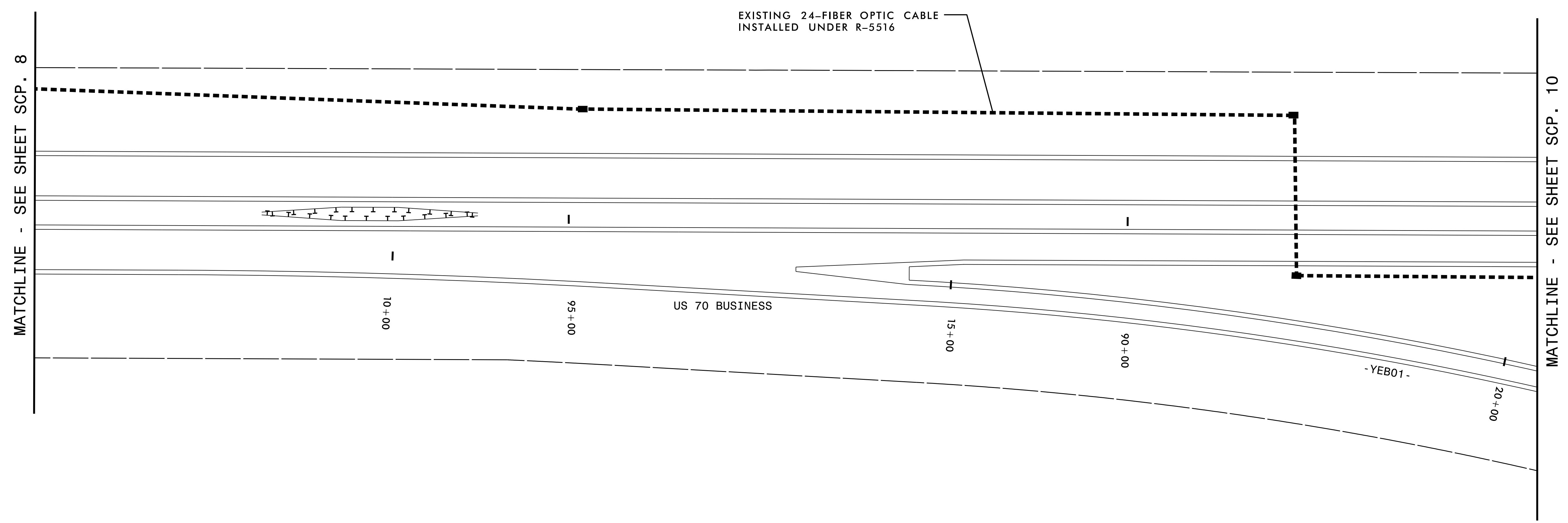
- NOTES:**
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

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

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997



	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell			DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons			
SCALE 0 50 1"=50'			CADD Filename: R1015_scp.08.dgn

NO WORK ON THIS SHEET



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

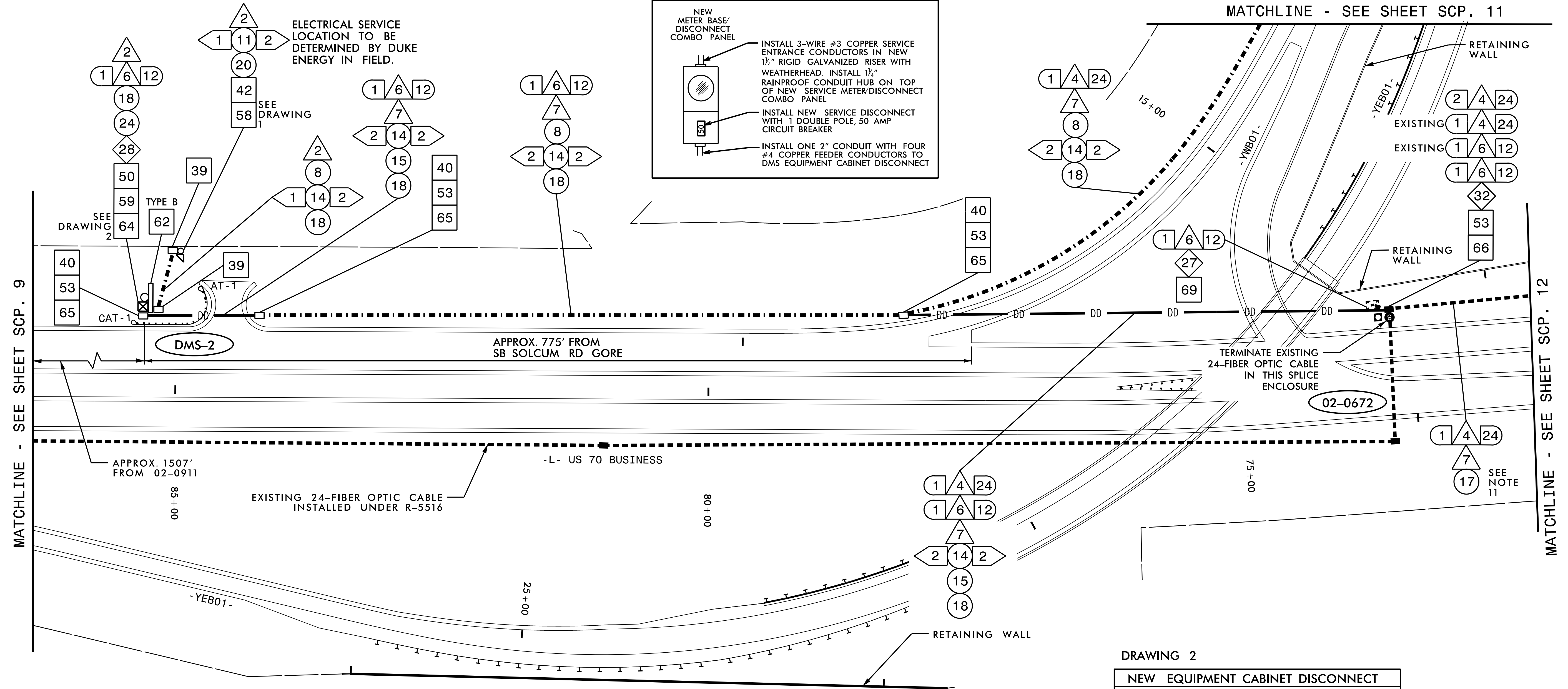
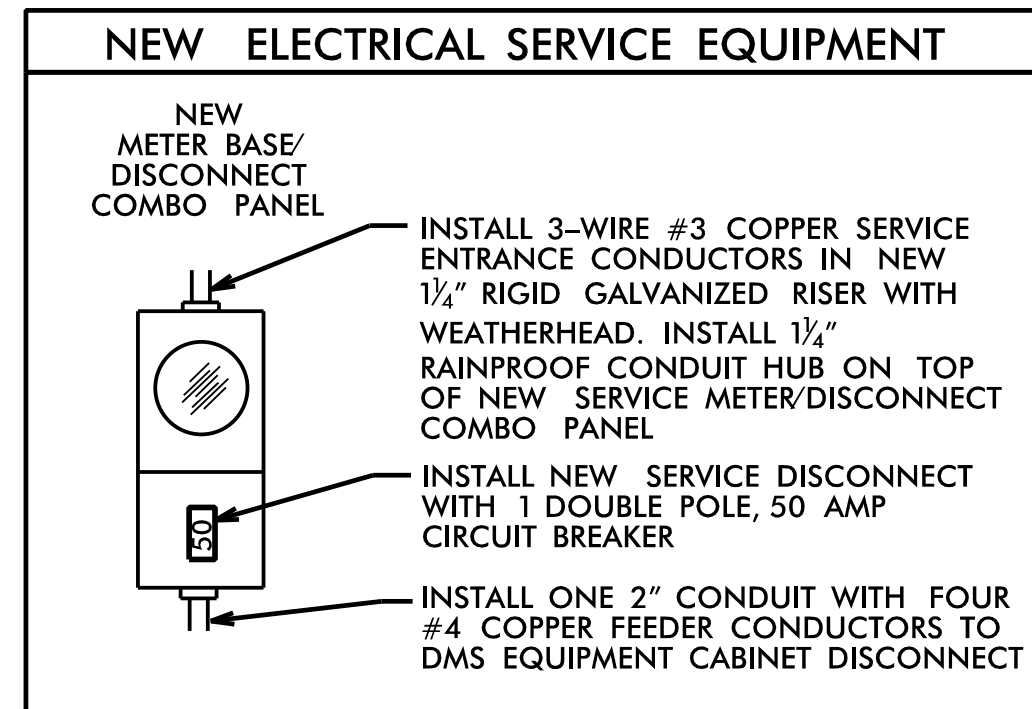
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

 <small>250 N. Greenfield Place, Garner, NC 27529</small>	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	<small>Division 02 Craven Co. Havelock</small>		
<small>PLANNED BY: N.K. Vlanich</small>	<small>REVIEWED BY: T.R. Terrell</small>	<small>DATE: 12/7/2018</small>	
<small>PREPARED BY: N.K. Vlanich</small>	<small>REVIEWED BY: N.R. Simmons</small>	<small>INITIALS</small>	<small>DATE</small>
<small>REVISIONS</small>		<small>SIGNATURE</small>	
<small>SCALE: 1"=50'</small>		<small>DocuSigned by: Natasha R. Simmons 12/7/2018</small>	
<small>1"=50'</small>		<small>FILENAME: R1015_scp_09.dgn</small>	

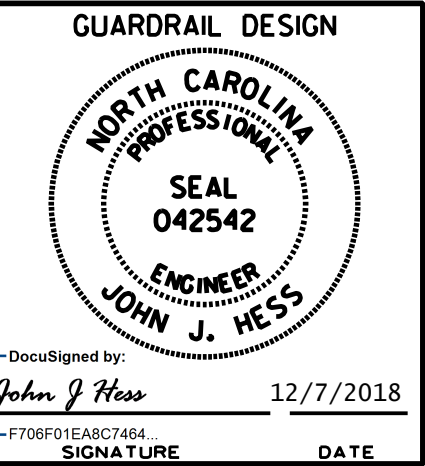
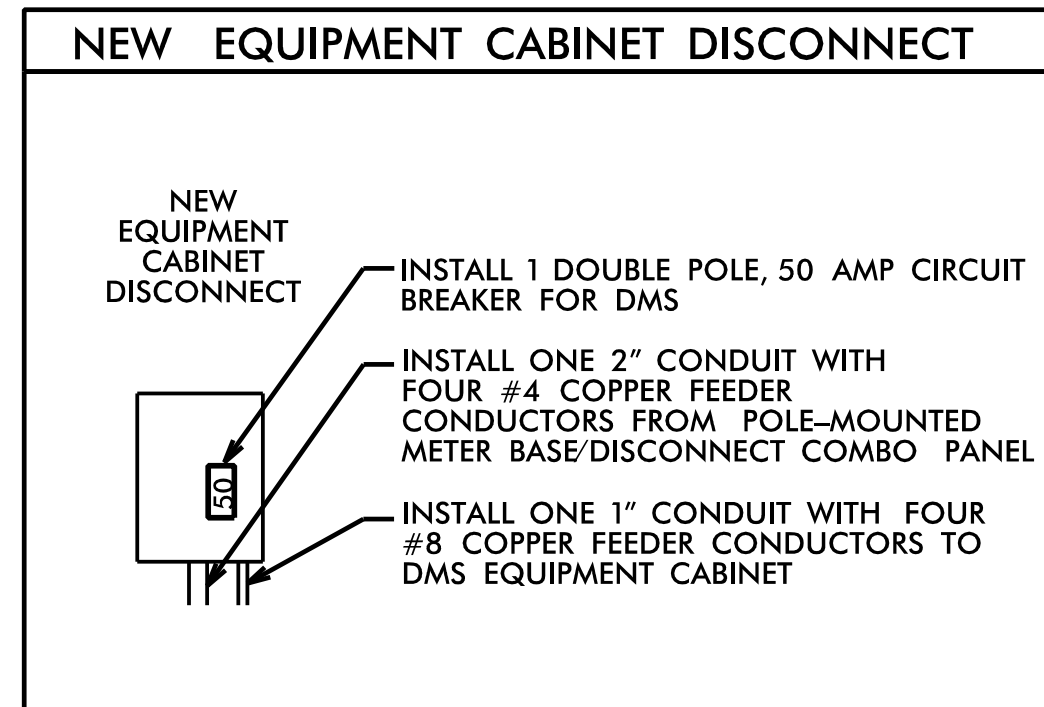
DMS-2 GPS COORDINATES

N 34° 55.223'
W 76° 56.609'

DRAWING 1



DRAWING 2



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. BACK PULL EXISTING FIBER TO EXISTING SPLICE ENCLOSURE AT SIGNAL 02-0672.
12. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

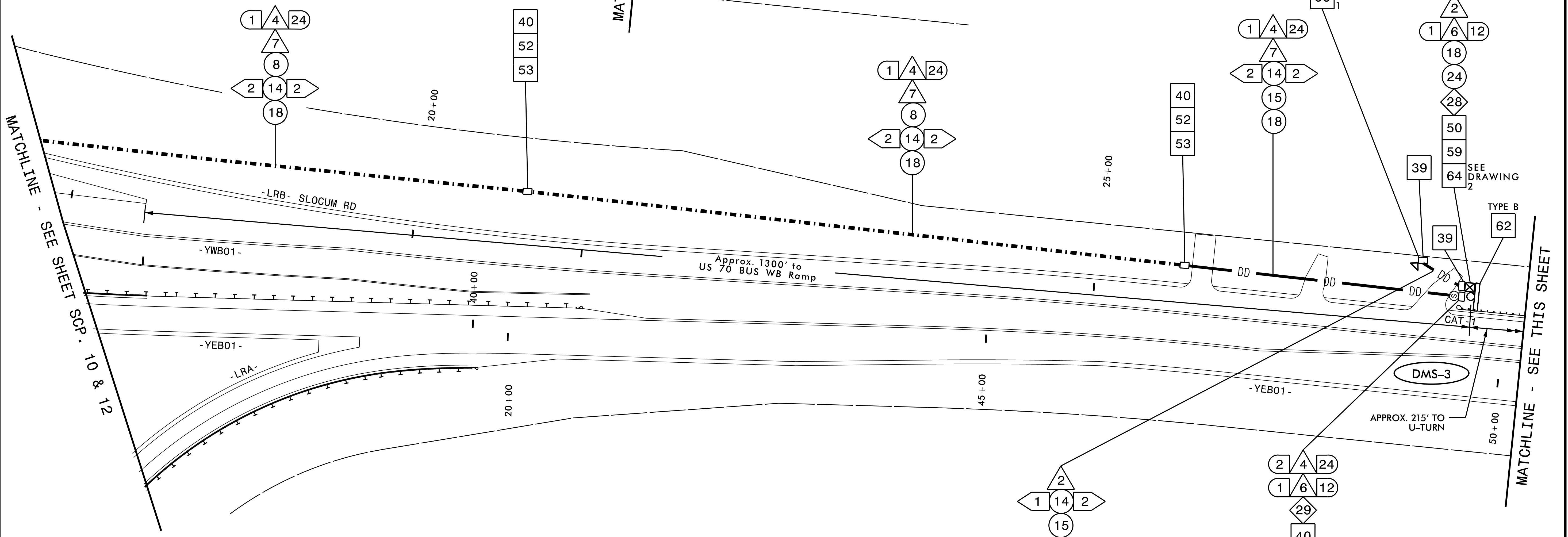
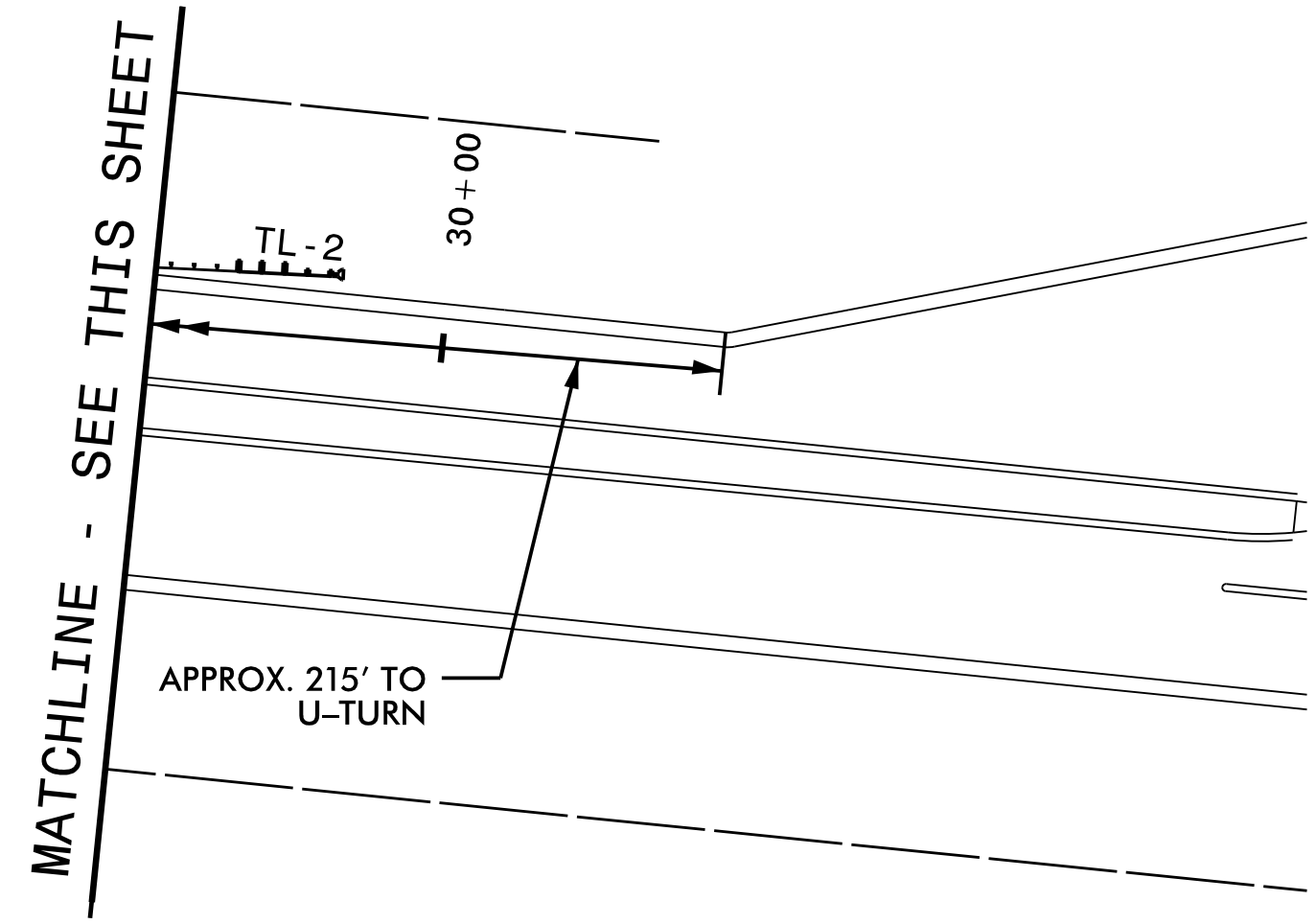
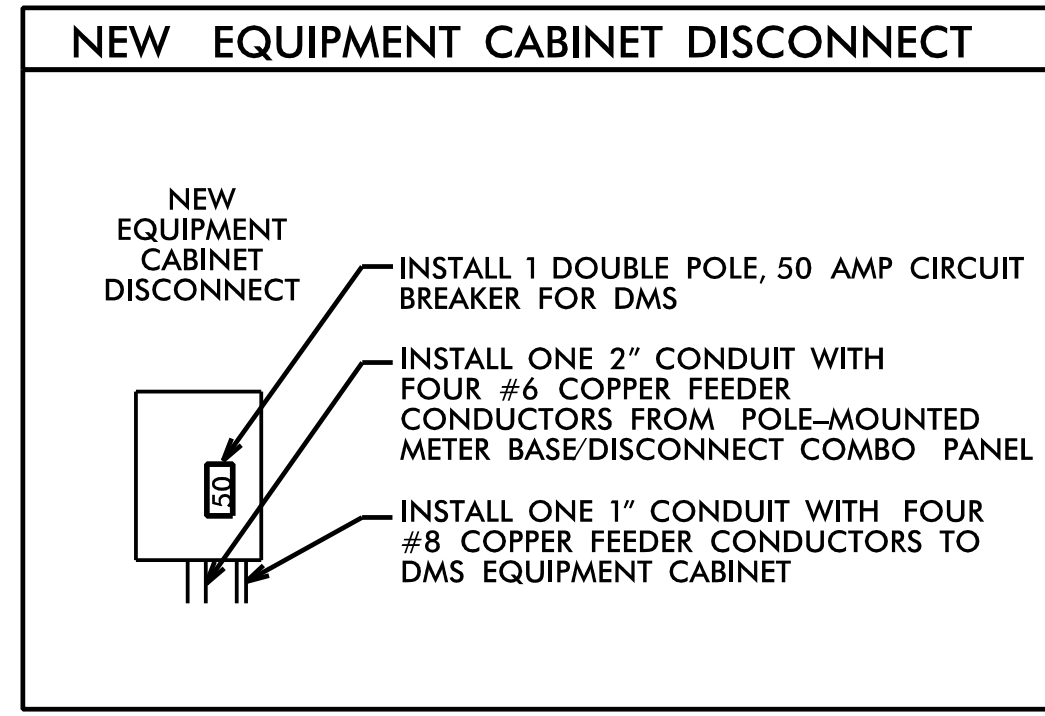
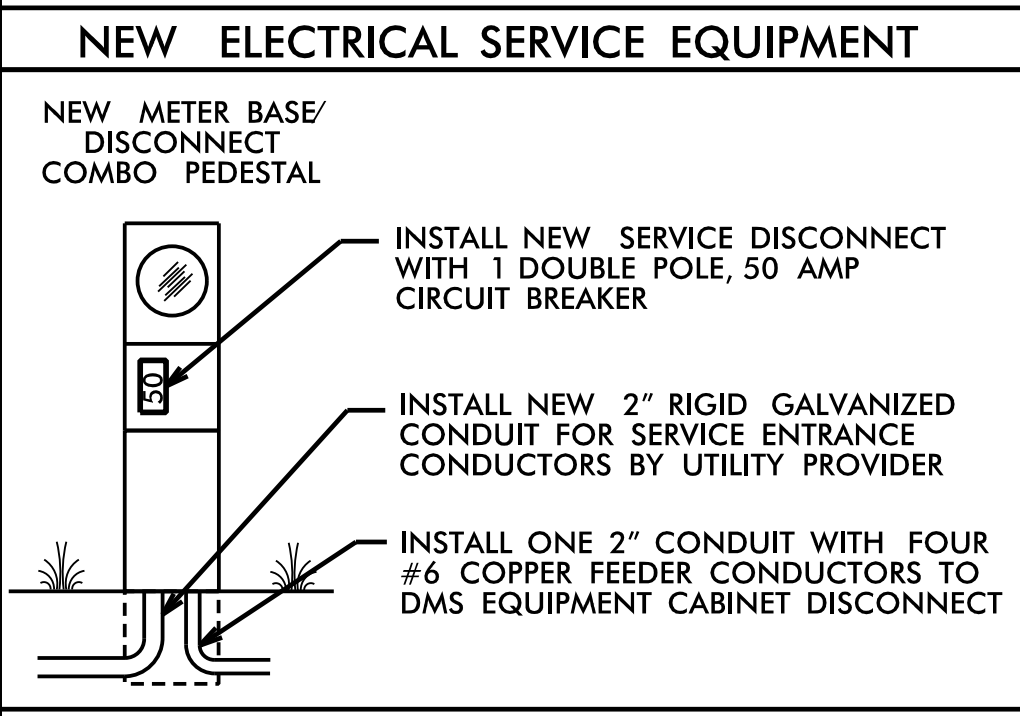
	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE SIGNATURE DATE	
SCALE 0 50 1"=50'		DocuSigned by: Natasha R. Simmons 12/7/2018 SIGNATURE DATE CADD Filename: R1015 scp.10.dgn	

DRAWING 1

DRAWING 2

DMS-3 GPS COORDINATES

N 34° 55.101'
W 76° 56.194'



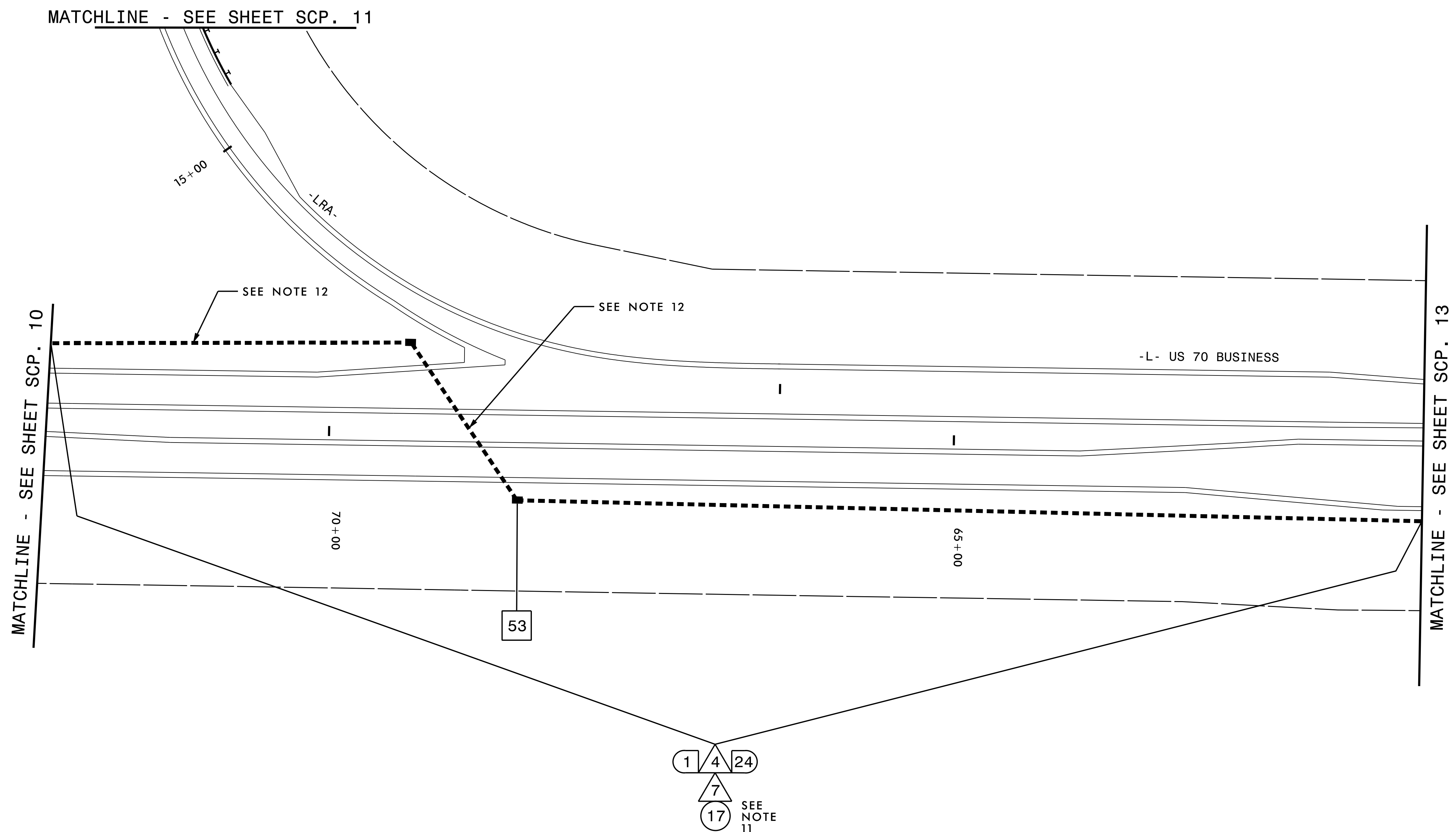
- NOTES:**
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

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

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN										
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018		REVIEWED BY: T.R. Terrell							
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018								
	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				<table border="1"> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>			
REVISIONS	INIT.	DATE									
CADD Filename: R1015 scp.11.dgn			DATE								





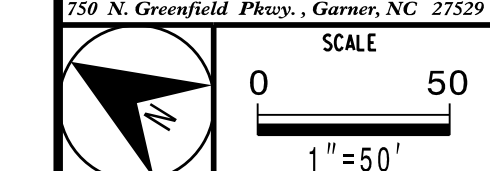
NOTES:

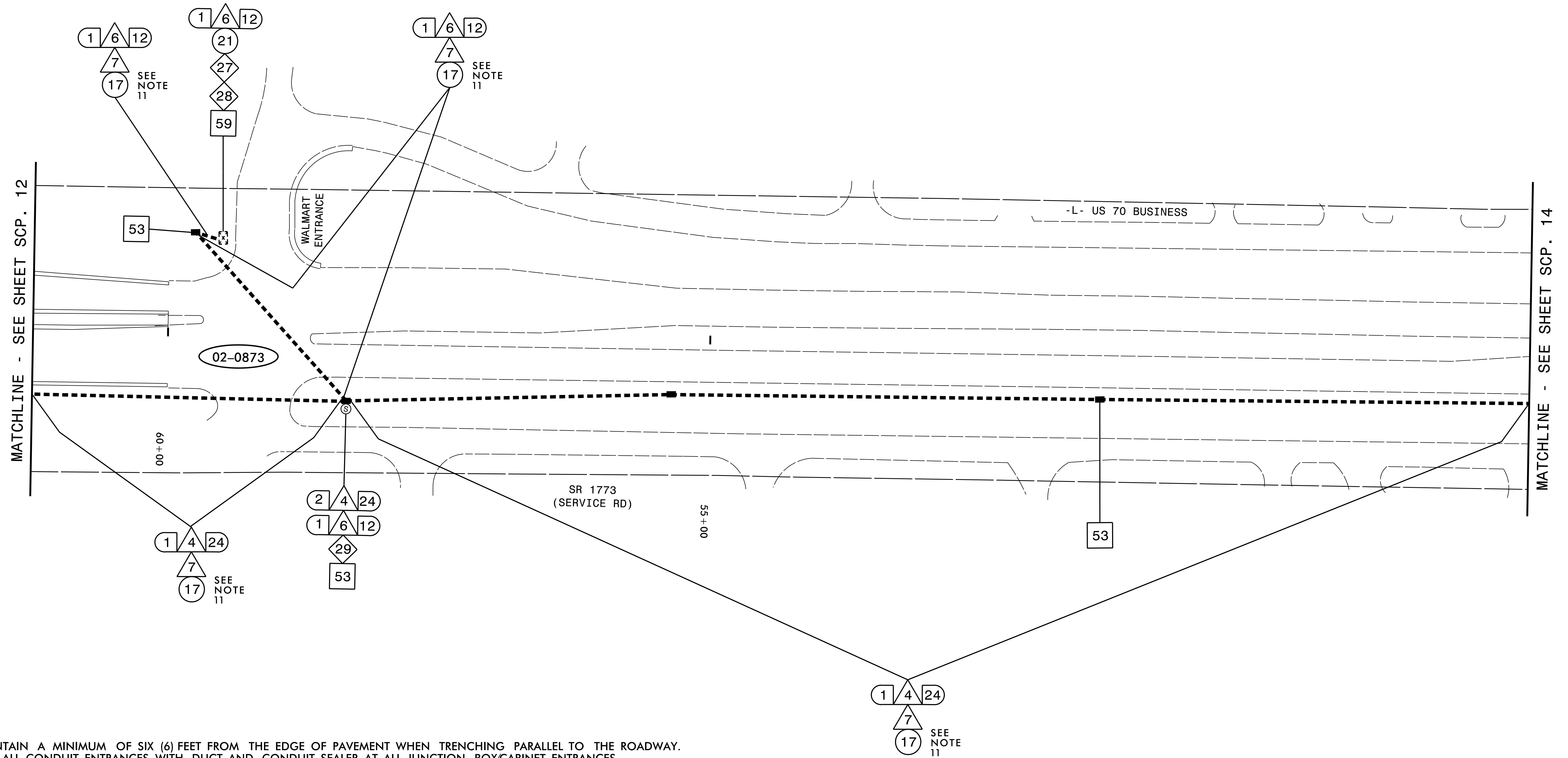
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
12. BACK PULL EXISTING FIBER TO EXISTING SPLICE ENCLOSURE AT SIGNAL 02-0672.

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

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

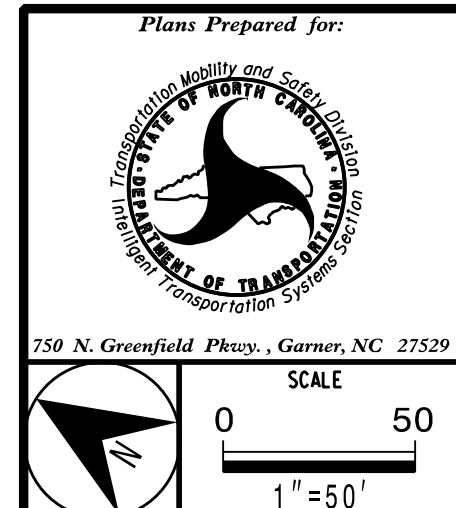
Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons		
REVISIONS	INIT.	DATE	
SIGNED: <i>Notasha R. Simmons</i> 12/7/2018 SEAL: <i>Notasha R. Simmons</i> SIGNATURE DATE			
CADD Filename: R1015_scp.12.dgn			





- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

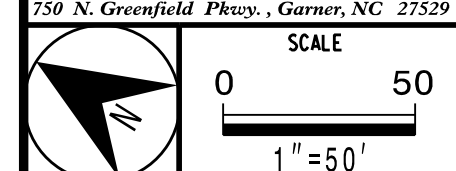
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

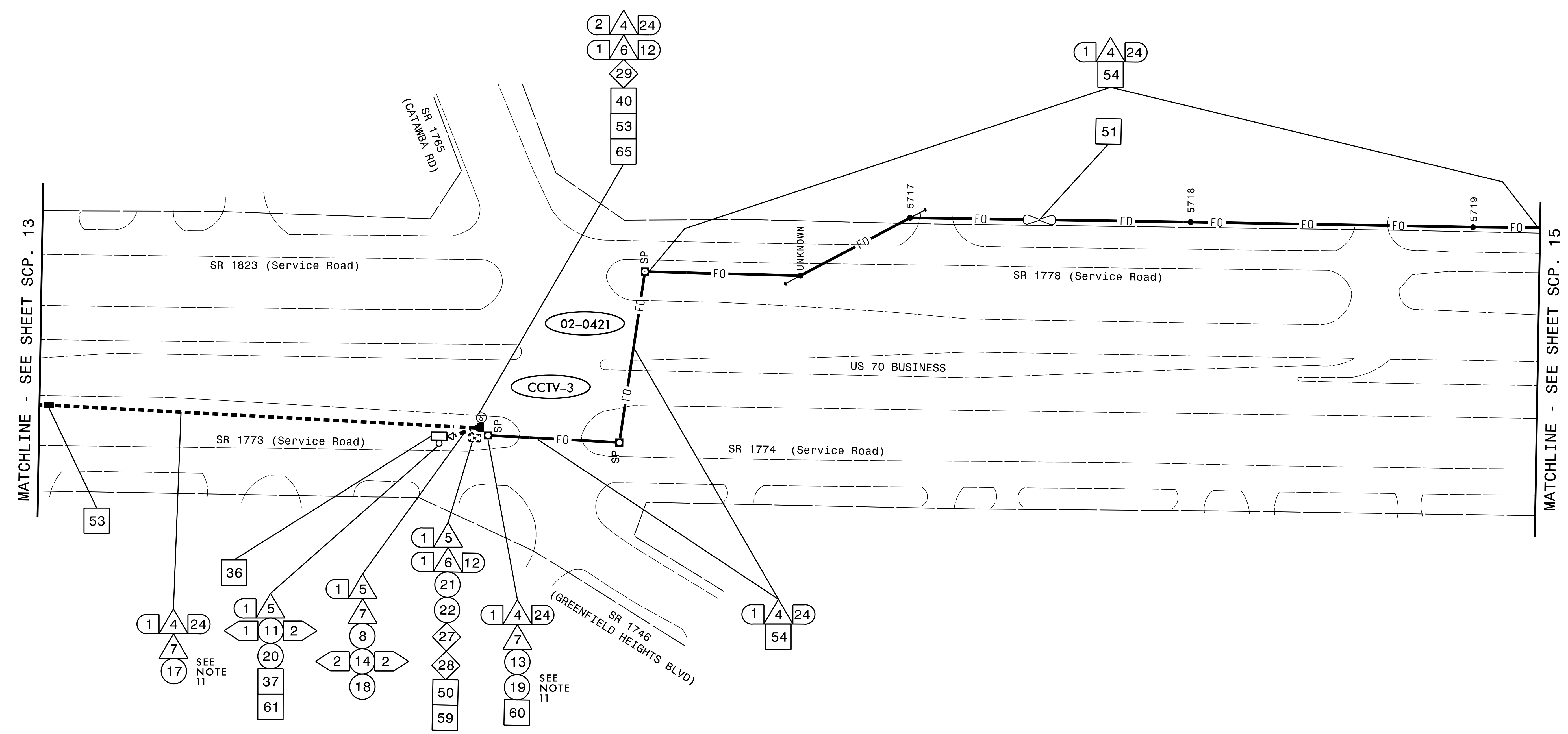


US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	
Division 02	Craven Co. Havelock
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 031464
 ENGINEER
 NATASHA R. SIMMONS
 DocuSigned by:
 Natasha R. Simmons 12/7/2018
 PEDABR0F3AD4454
 SIGNATURE DATE
 CADD Filename: R1015 scp.13.dgn

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED





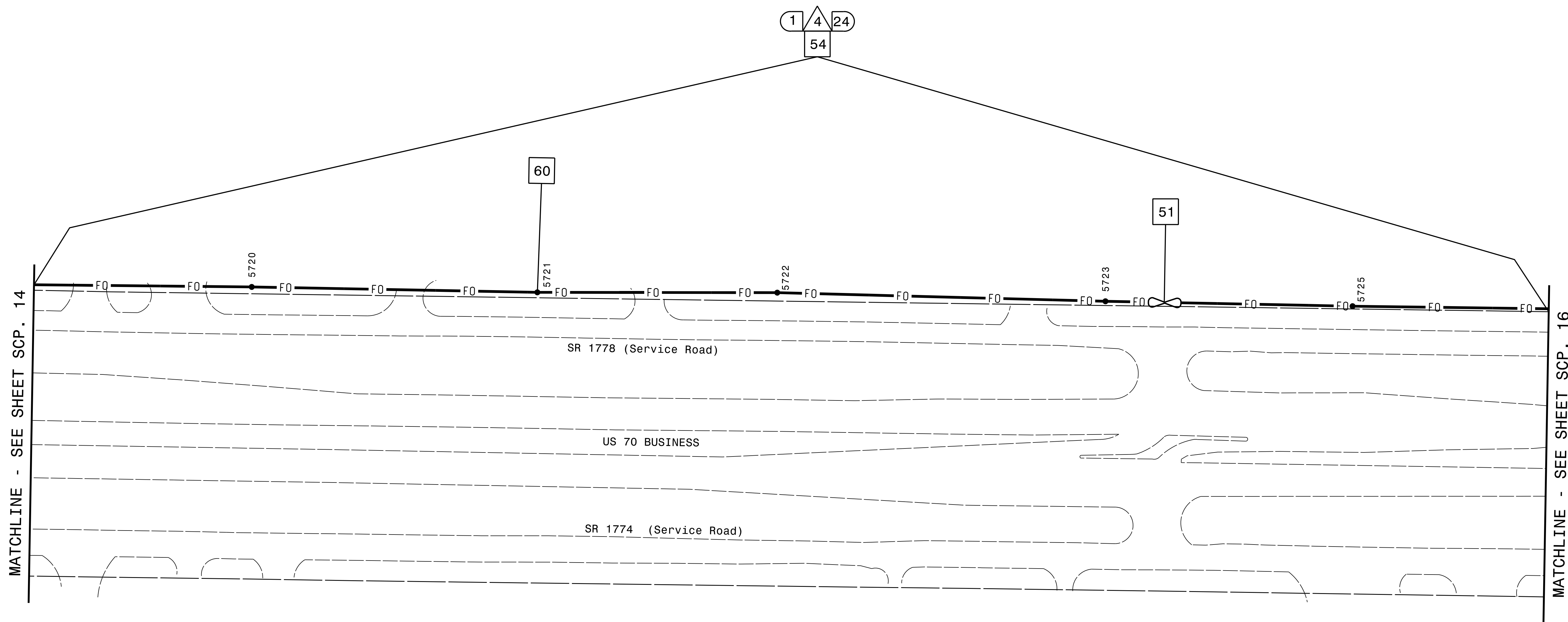
- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO ARRANGE FOR THE DIVISION 2 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
 12. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB

HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	SEAL NATASHA R. SIMMONS ENGINEER
<p>SCALE 0 50 1"=50'</p>	REVISIONS INIT. DATE	INIT. DATE	Notarized by: Natasha R. Simmons 12/7/2018 FIDAB0F3AD454 SIGNATURE DATE CADD Filename: R1015 scp 14.dgn



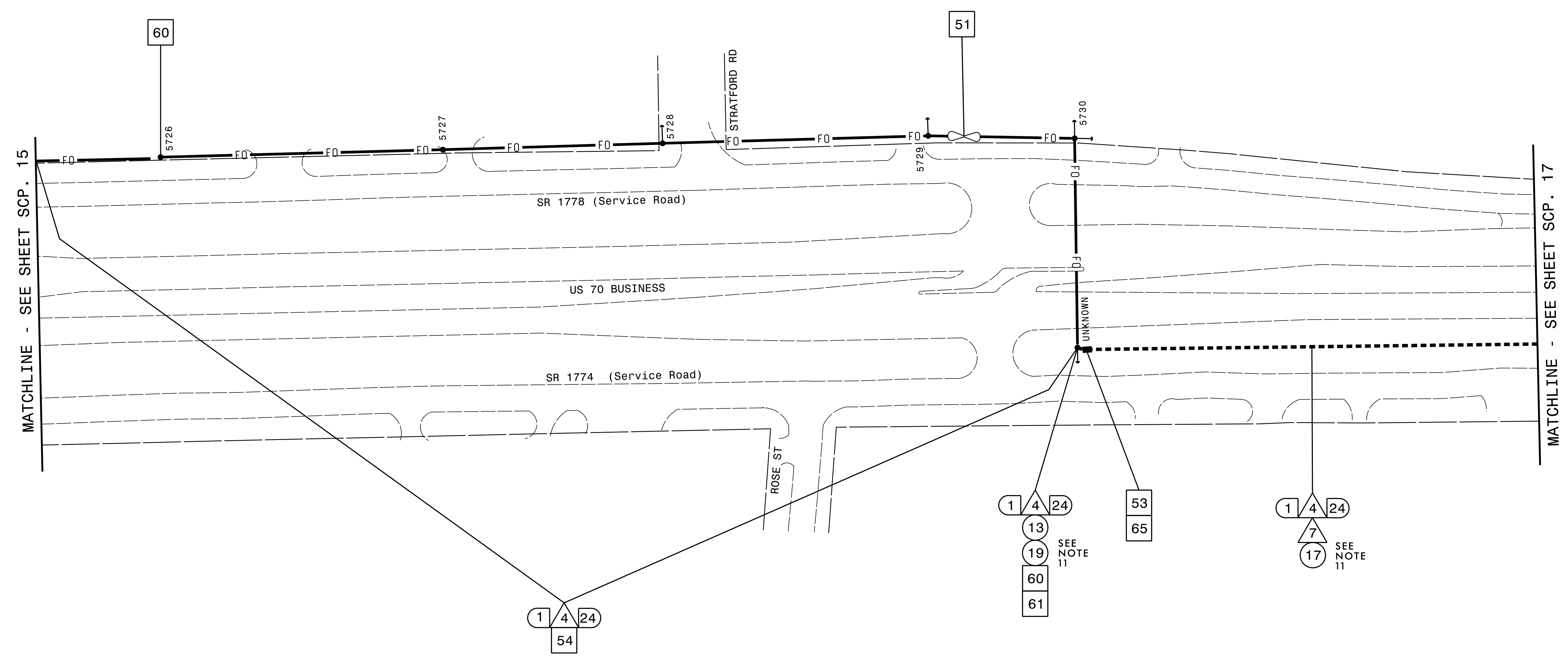
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1"=50'	REVISIONS _____ INIT. DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 _____ SIGNATURE DATE
CADD Filename: R1015 scp 15.dgn			

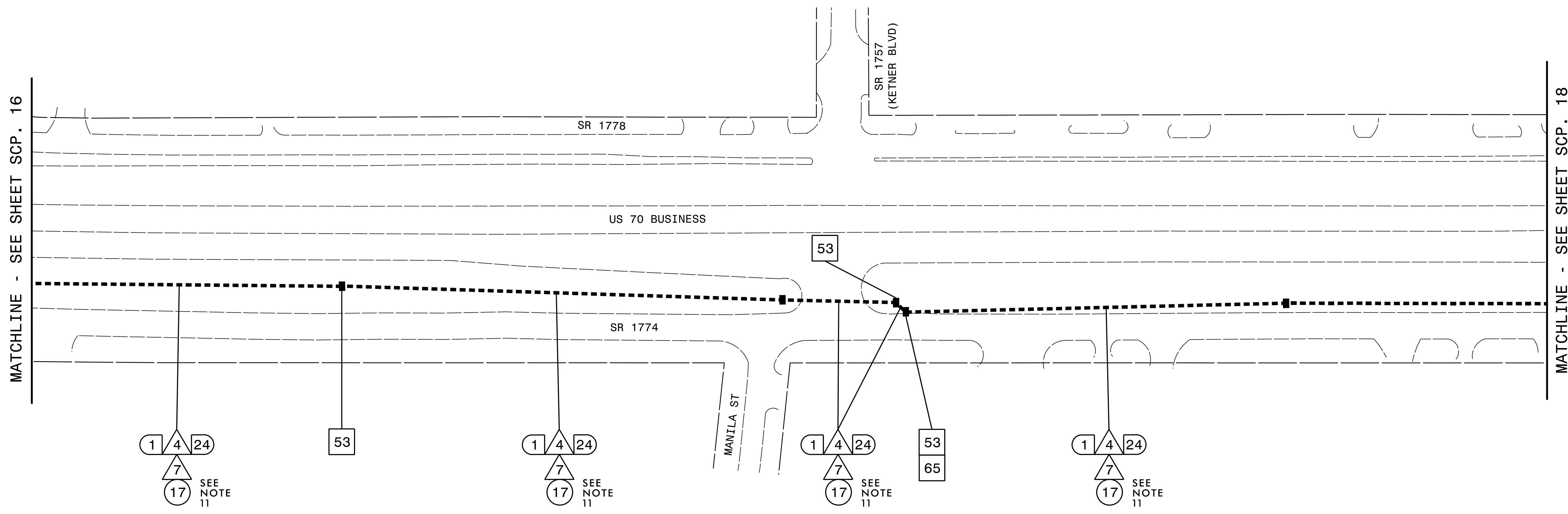


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

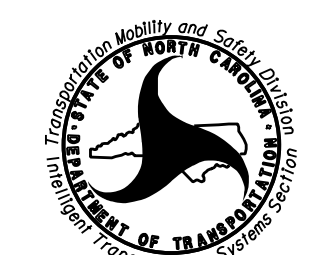
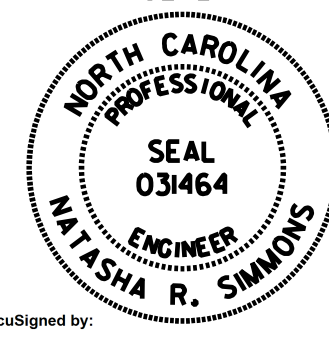

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
SCALE 0 50 1"=50'	REVISIONS _____ INIT. DATE		CADD Filename: R1015 scp.16.dgn

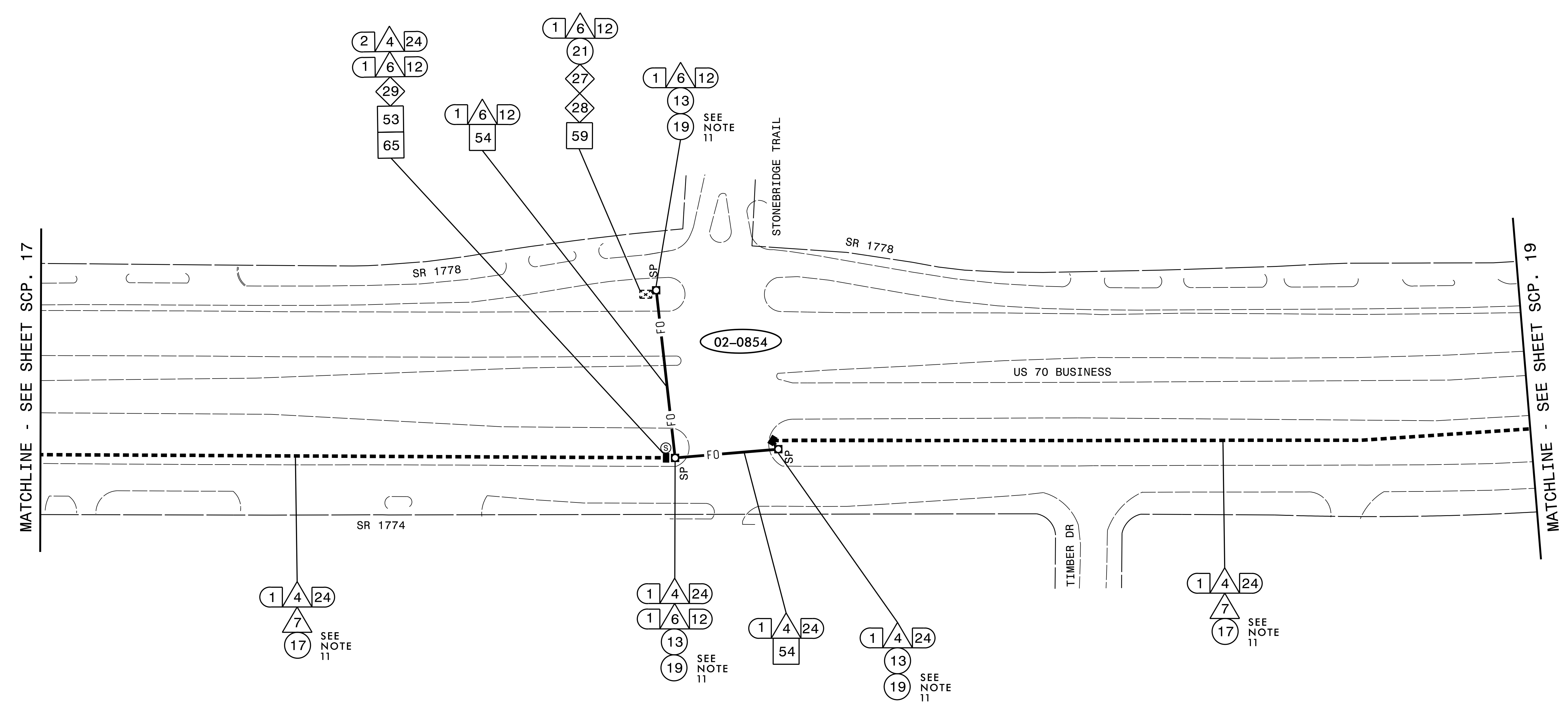


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS SEAL 031464							
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DESCRIPTION	INIT.	DATE			
NO.	DESCRIPTION	INIT.	DATE							
 SCALE 0 50 1"=50'	DocuSigned by: Natasha R. Simmons 12/7/2018 FIDABR0F3AD454 SIGNATURE DATE CADD File name: R1015 scp.17.dgn		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS SEAL 031464							

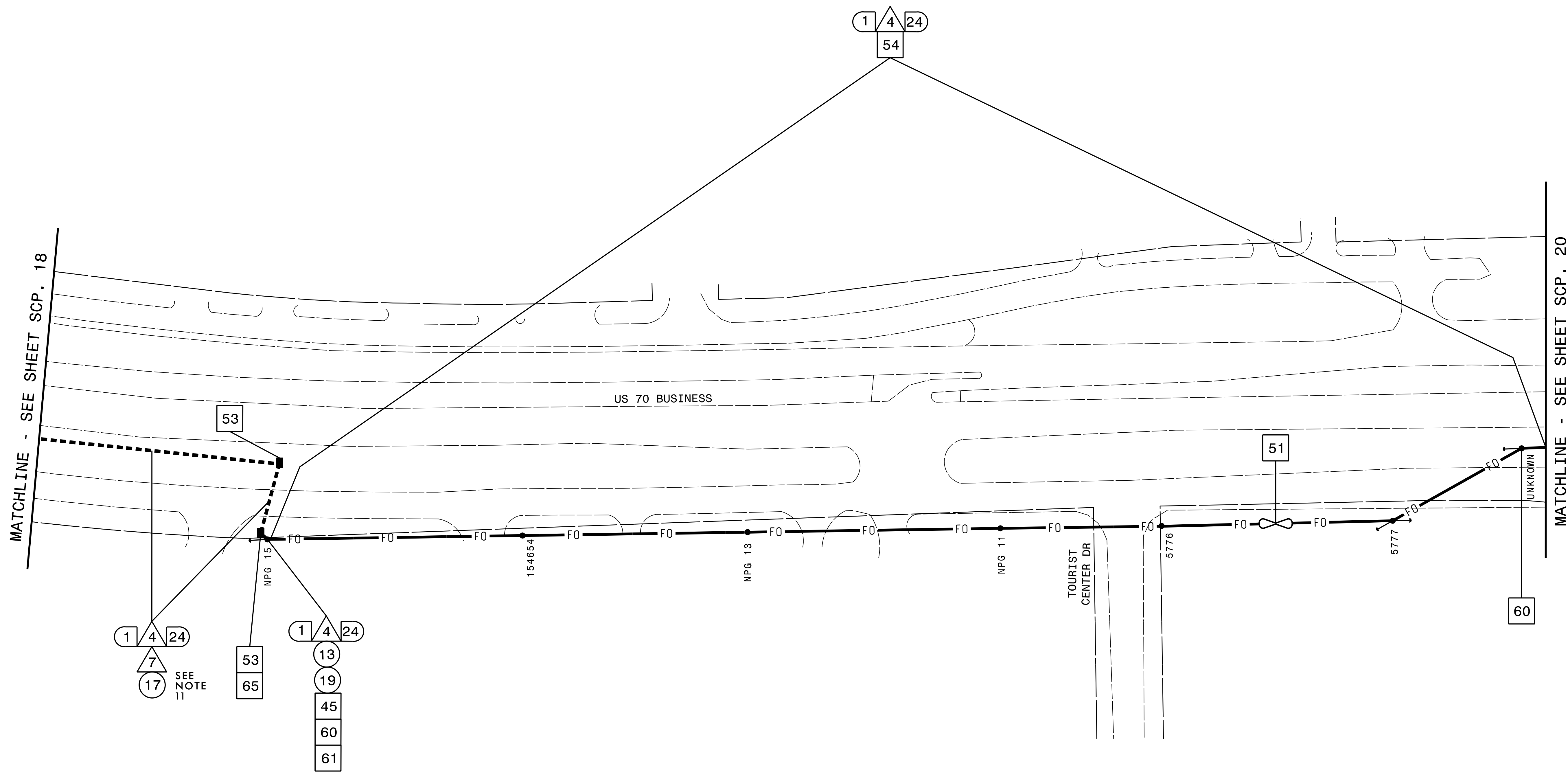


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
SCALE 0 50 1"=50'	REVISIONS INIT. DATE	CADD Filename: R1015 scp.18.dgn	



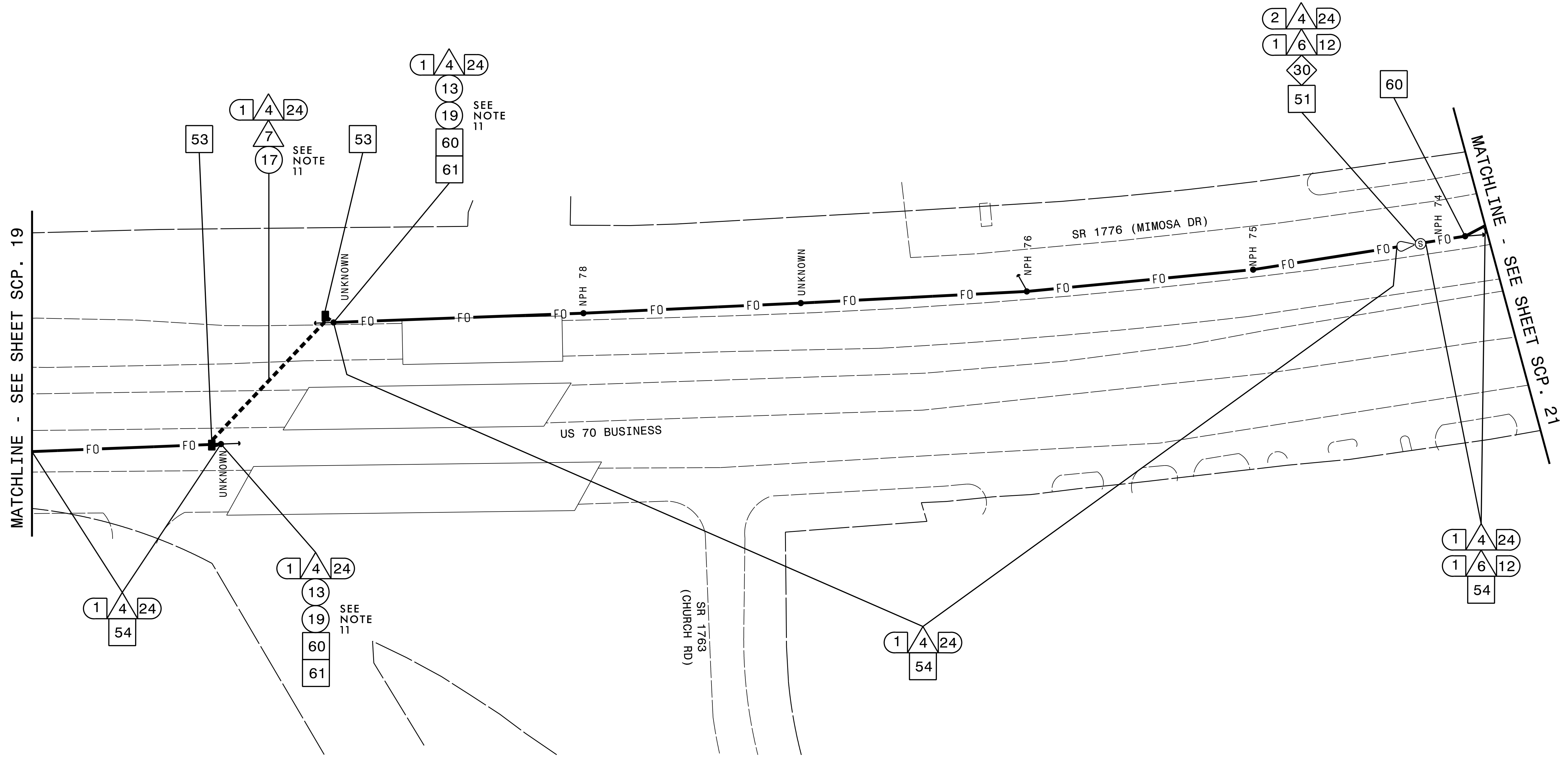
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN							
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE		
REVISIONS	INIT.	DATE						
	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL NATASHA R. SIMMONS CADD Filename: R1015 scp.19.dgn							


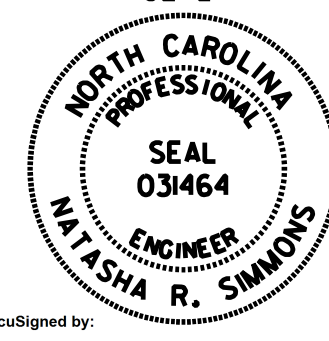


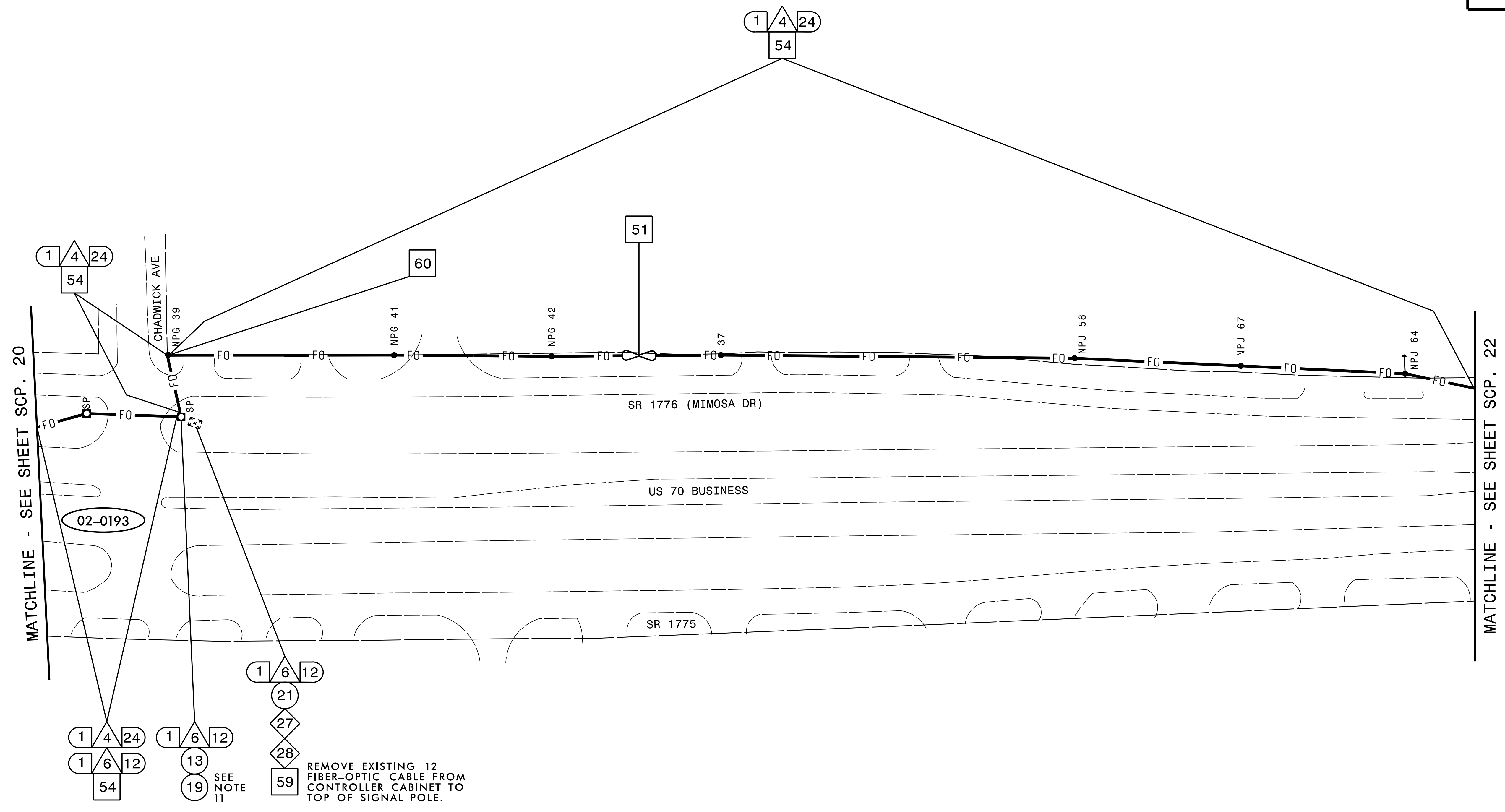
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

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

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		SEAL  NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell			DocuSigned by: Notasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons			
REVISIONS 0 50 1"=50'			CADD Filename: R1015 scp. 20.dgn



- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

REMOVE EXISTING 12 FIBER-OPTIC CABLE FROM CONTROLLER CABINET TO TOP OF SIGNAL POLE.

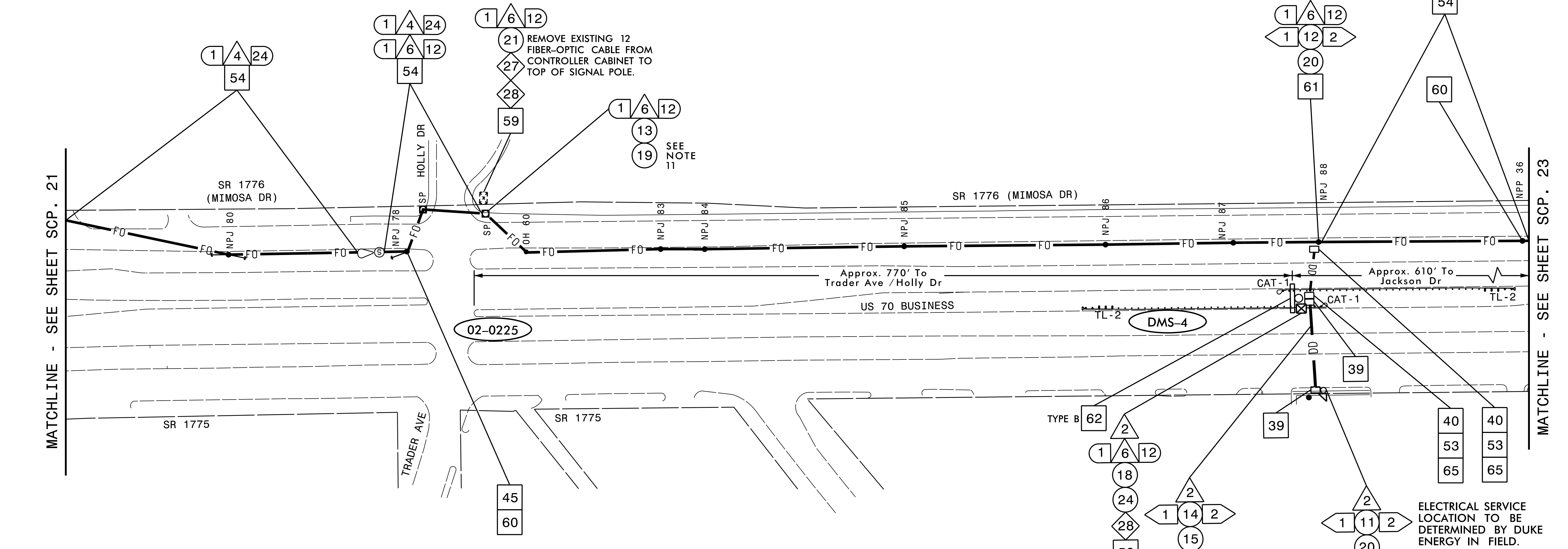
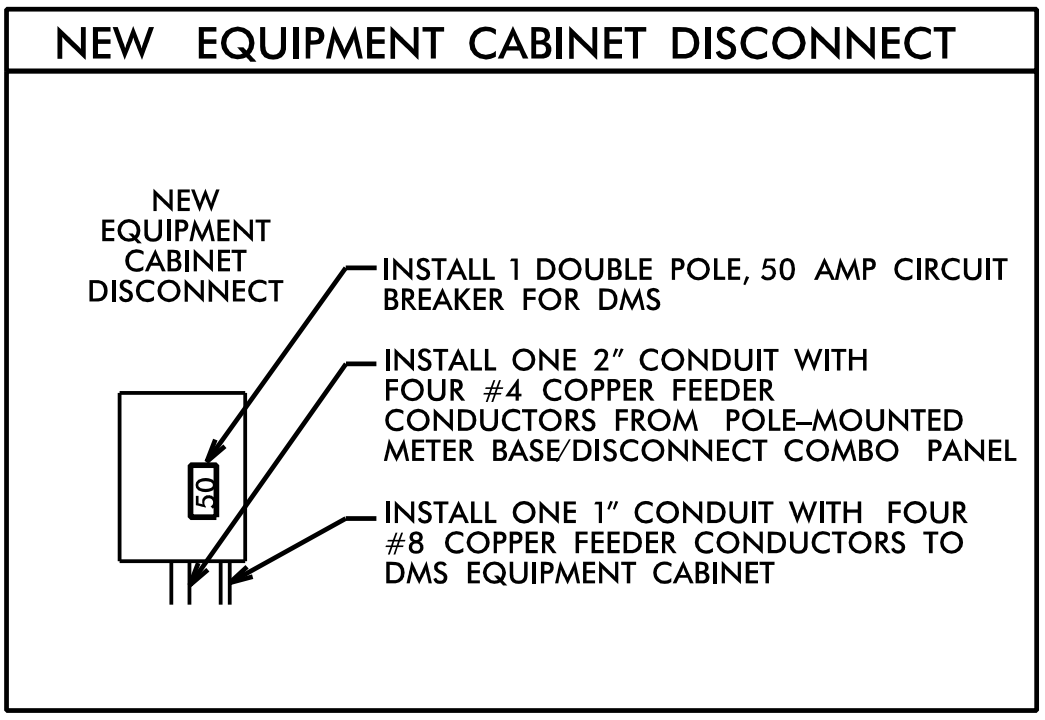
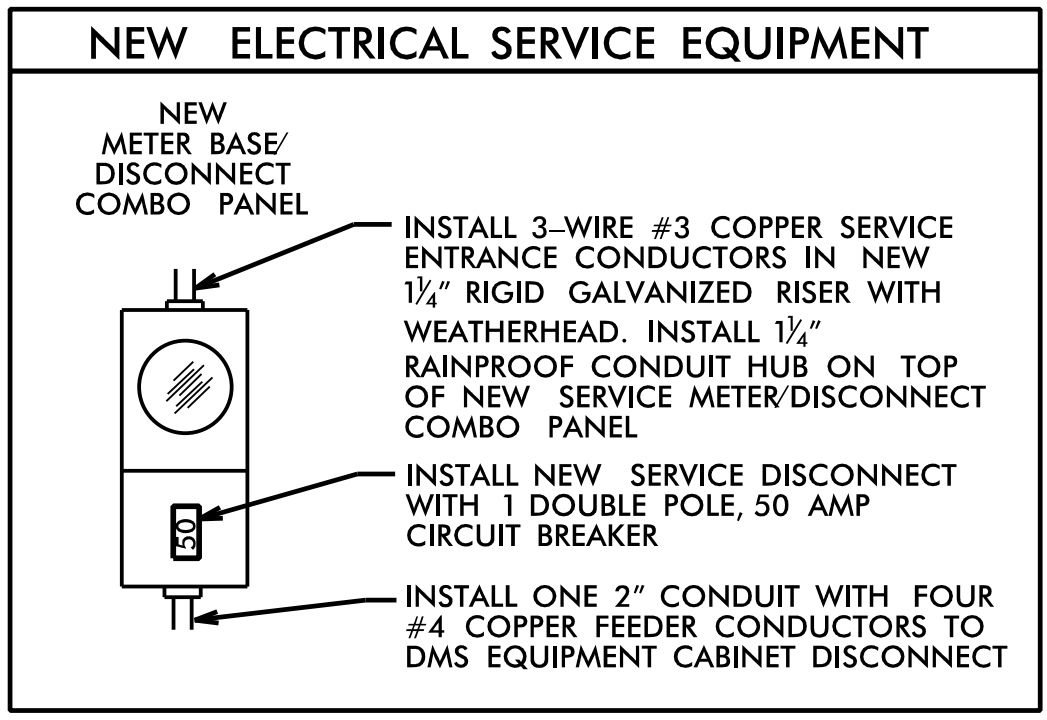
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
SCALE 0 50 1"=50'	REVISIONS INIT. DATE	REVISIONS INIT. DATE	CADD Filename: R1015 scp. 21.dgn

DRAWING 1

DRAWING 2



- NOTES:**
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO ARRANGE FOR THE DIVISION 2 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
 12. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

GUARDRAIL DESIGN

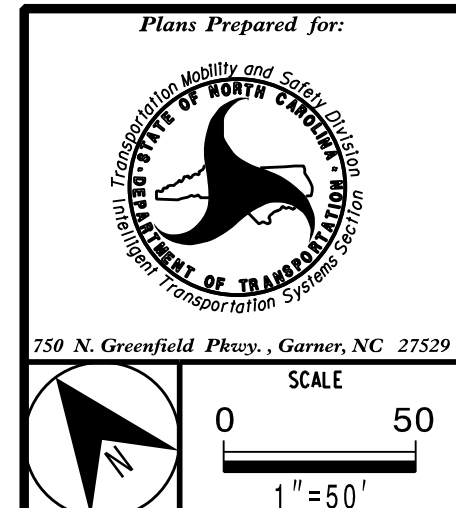
NORTH CAROLINA PROFESSIONAL SEAL
 SEAL 042542
 ENGINEER
 JOHN J. HESS

DocuSigned by:
 John J Hess 12/7/2018
 F700F0E5B2C78E4 SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997



US 70 HAVELOCK BYPASS CABLE ROUTING PLAN

Division 02 Craven Co. Havelock

PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell

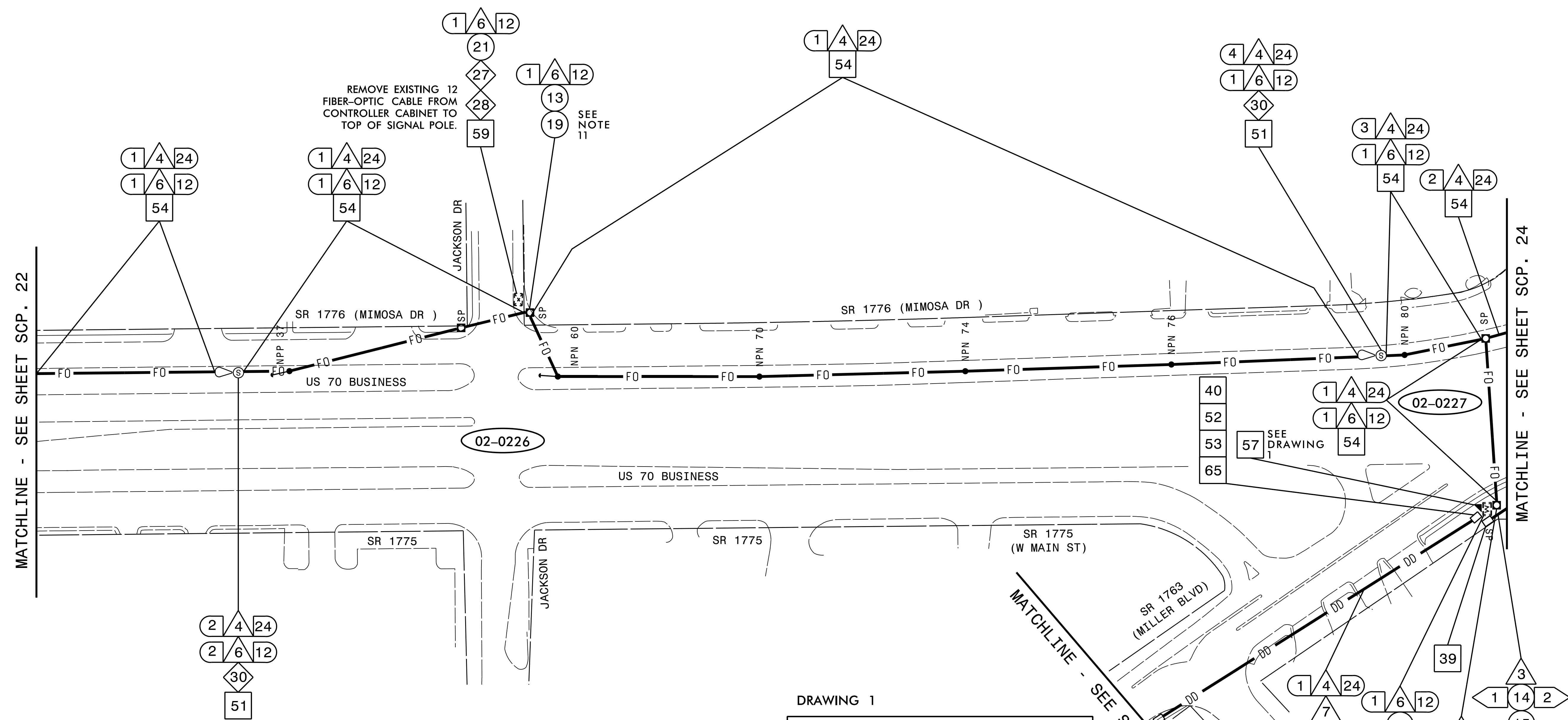
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

NORTH CAROLINA PROFESSIONAL SEAL
 SEAL 031464
 ENGINEER
 NATASHA R. SIMMONS

DocuSigned by:
 Natasha R Simmons 12/7/2018
 F8DA89F3AD484 SIGNATURE DATE

CADD Filename: R1015 scp. 22.dgn



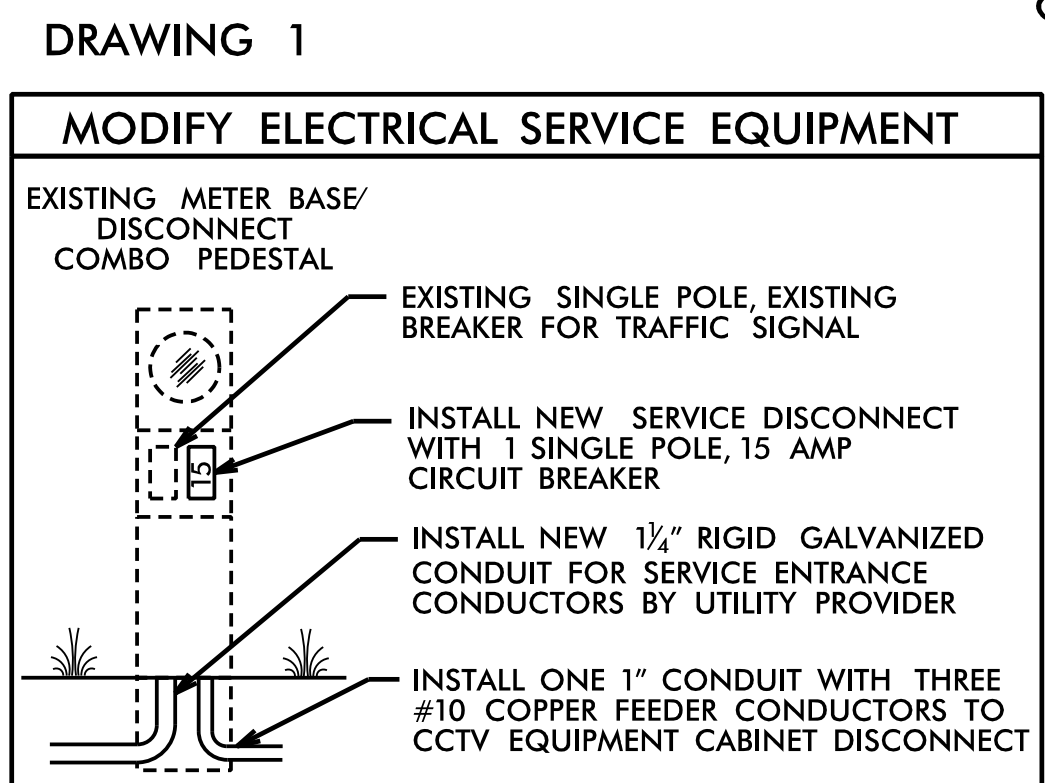
MATCHLINE - SEE SHEET SCP. 22

MATCHLINE - SEE SHEET SCP. 24

- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE SIGNAL CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

REMOVE EXISTING 12 FIBER-OPTIC CABLE FROM CONTROLLER CABINET TO TOP OF SIGNAL POLE.

SEE NOTE 11



REMOVE EXISTING 12 FIBER-OPTIC CABLE FROM CONTROLLER CABINET TO TOP OF SIGNAL POLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

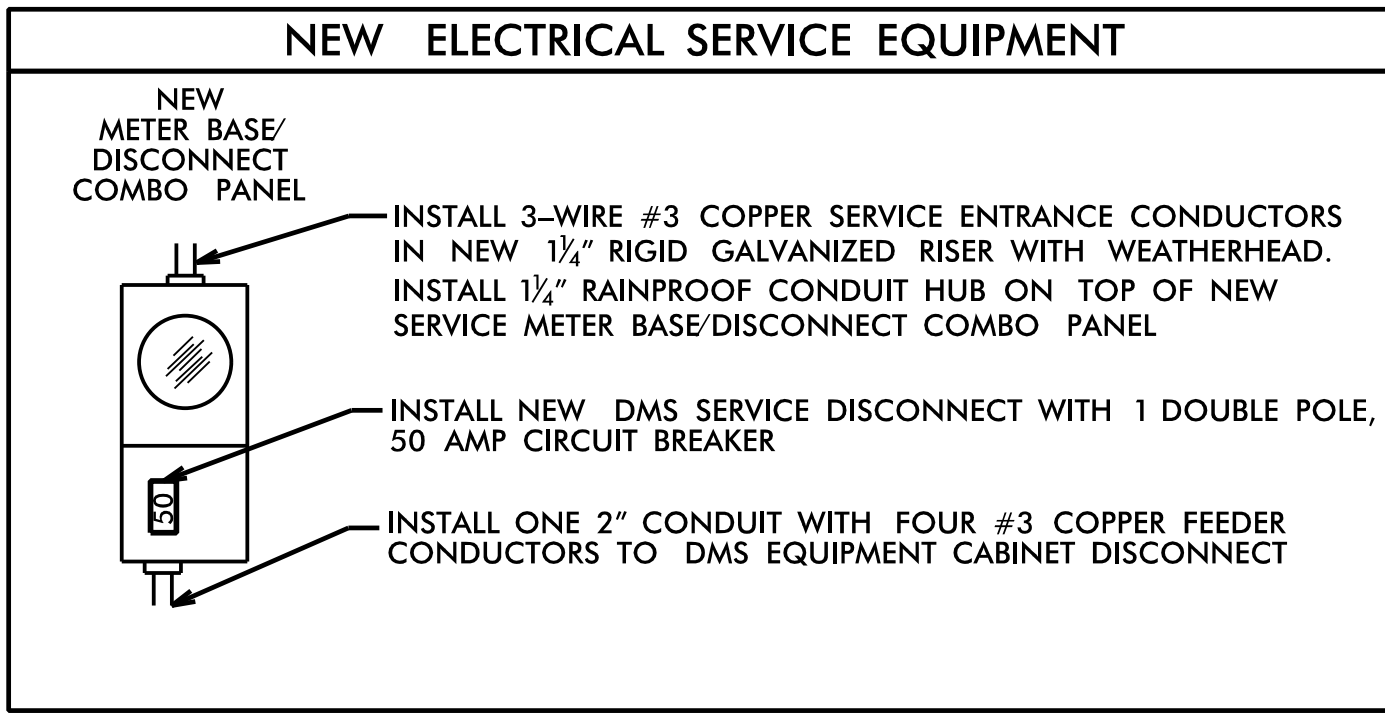
HNTB

HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

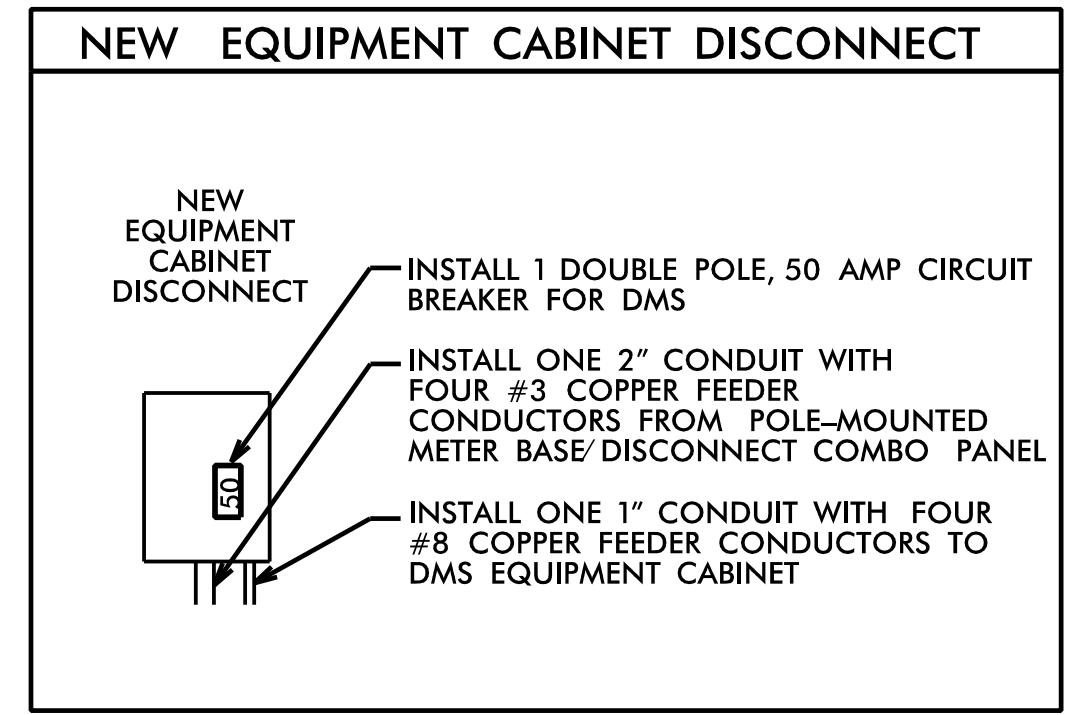
	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	250 N. Greenfield Place, Garner, NC 27529 SCALE: 0 50 1"=50'	
REVISIONS:		INITI. DATE _____	DocuSigned by: Natasha R. Simmons 12/7/2018 SIGNATURE DATE _____

CADD File name: R1015 scp. 23.dgn

DRAWING 1



DRAWING 2

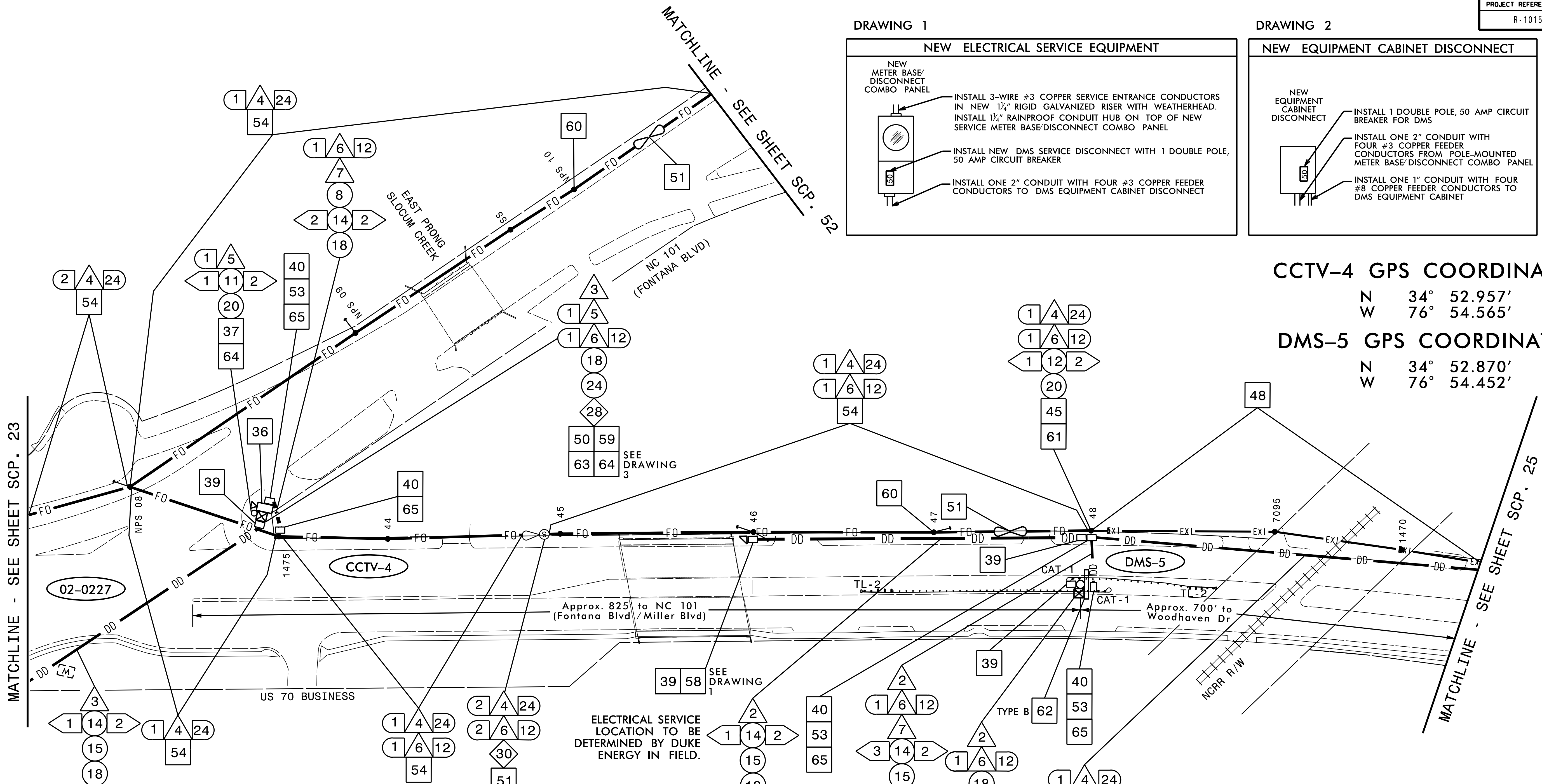


CCTV-4 GPS COORDINATES

N 34° 52.957'
W 76° 54.565'

DMS-5 GPS COORDINATES

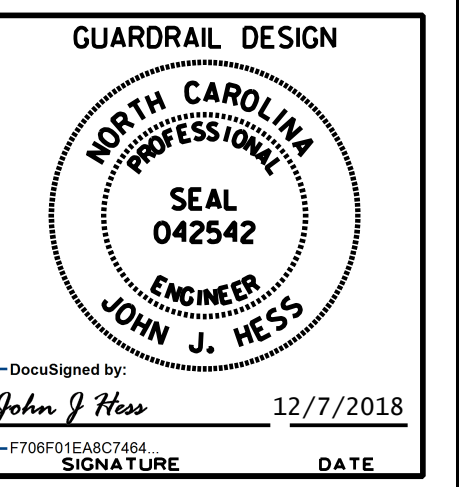
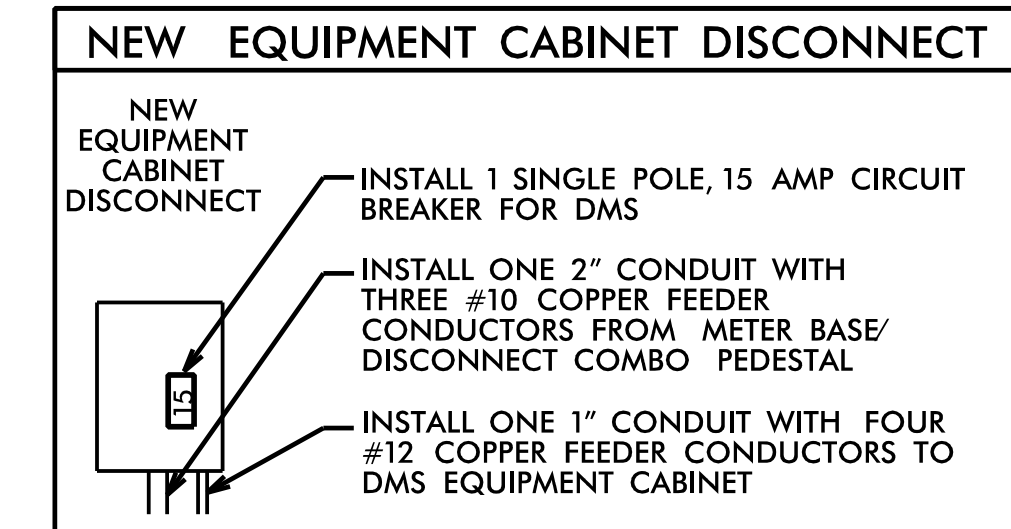
N 34° 52.870'
W 76° 54.452'



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
12. INSTALL TWO (2) INCH CONDUITS IN SIX (6) INCH CONDUIT UNDER RAILROAD TRACKS AT A DEPTH OF FIFTEEN (15) FEET BELOW BASE OF RAIL.
13. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

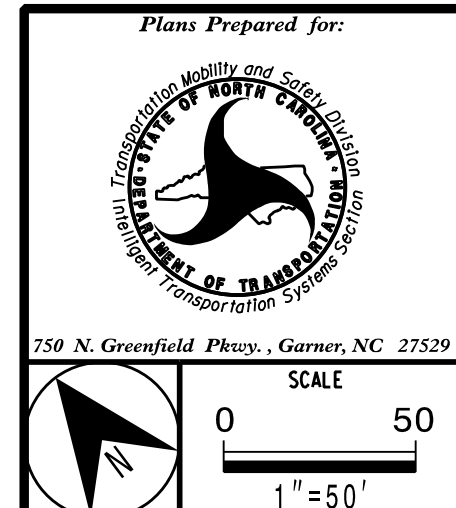
DRAWING 3



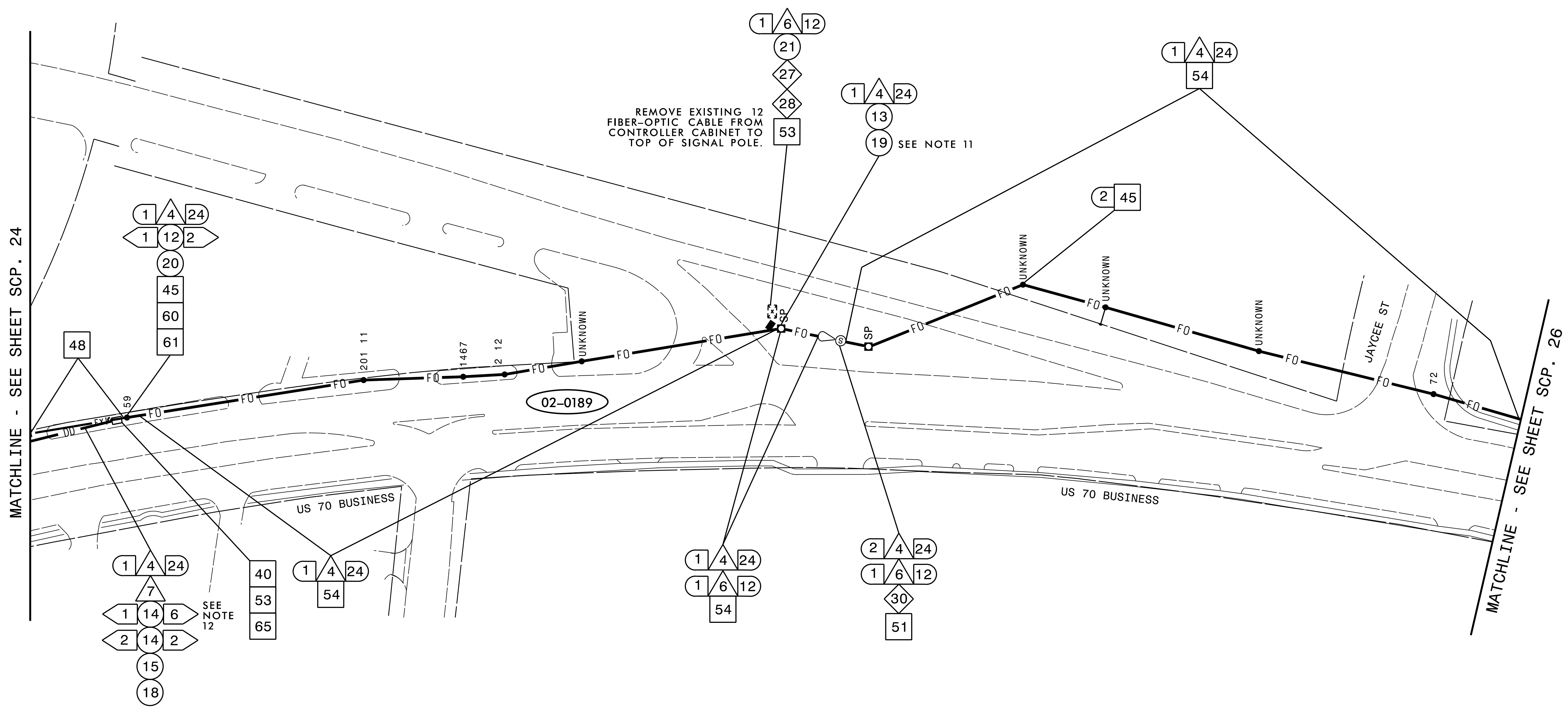
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997



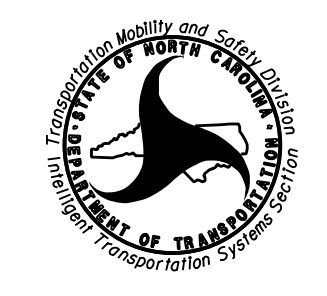

<p>Plans Prepared for:</p> <p>US 70 HAVELOCK BYPASS CABLE ROUTING PLAN</p> <p>Division 02 Craven Co. Havelock</p> <p>PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons</p>		<p>SEAL</p> <p>NORTH CAROLINA PROFESSIONAL ENGINEER</p> <p>SEAL 031464</p> <p>NATASHA R. SIMMONS</p> <p>DocuSigned by: Natasha R. Simmons 12/7/2018</p> <p>SIGNATURE DATE</p>						
<p>250 N. Greenfield Place - Garner, NC 27529</p> <p>SCALE</p> <p>0 50</p> <p>1"=50'</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				<p>DocuSigned by: John J. Hess 12/7/2018</p> <p>SIGNATURE DATE</p> <p>CADD Filename: R1015 scp 24.dgn</p>
REVISIONS	INIT.	DATE						

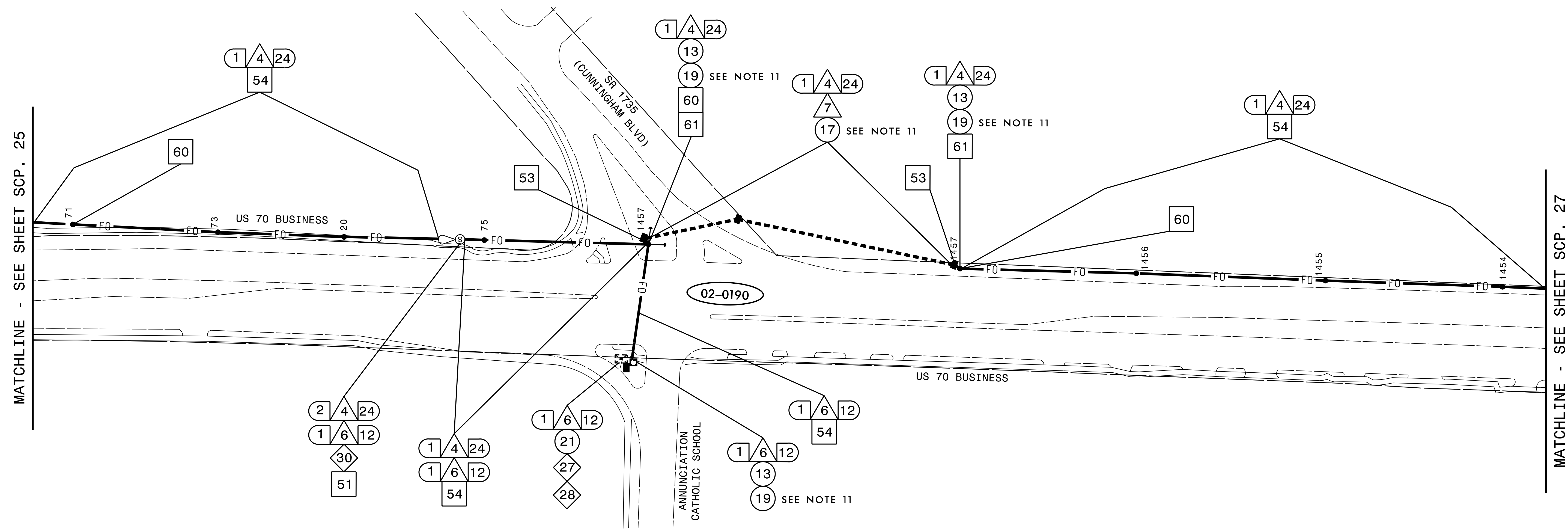


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
 12. INSTALL TWO (2) INCH CONDUITS IN SIX (6) INCH CONDUIT UNDER RAILROAD TRACKS AT A DEPTH OF FIFTEEN (15) FEET BELOW BASE OF RAIL.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 FID486F34D454 SIGNATURE DATE CADD Filename: R1015 scp 25.dgn	

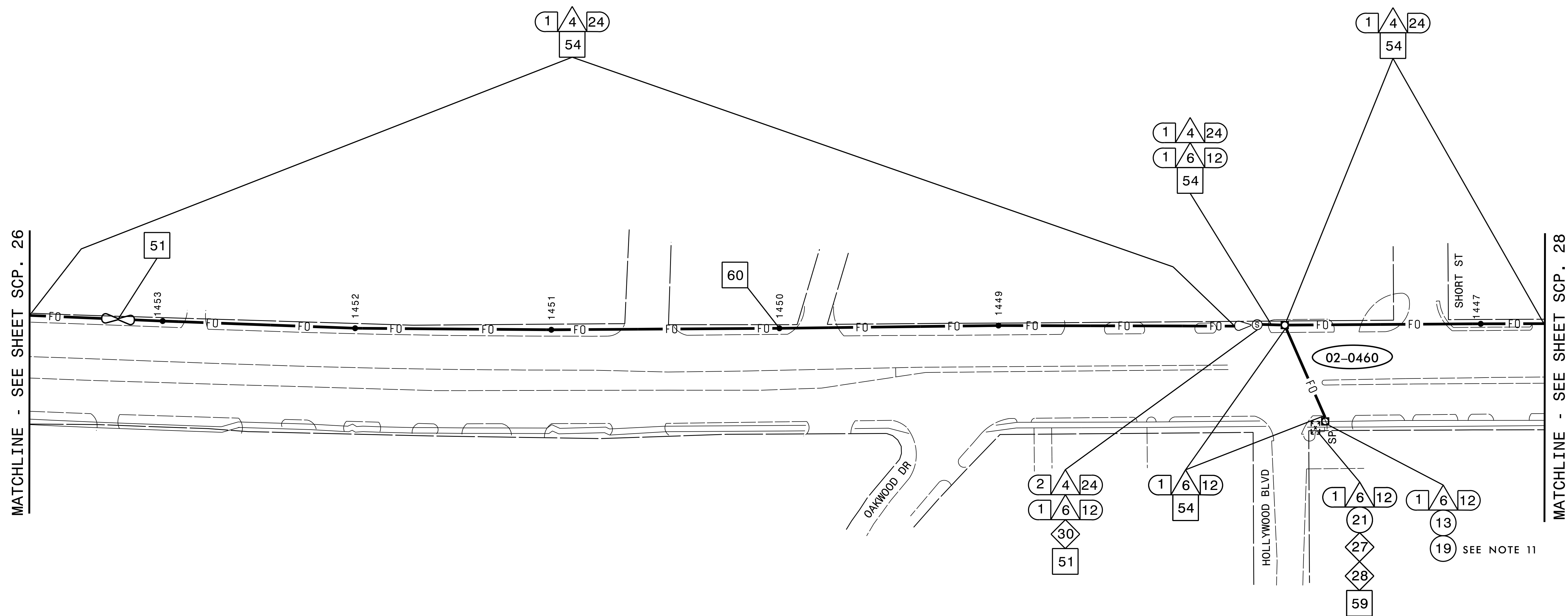


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN							
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons						
	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL 031464 ENGINEER NATASHA R. SIMMONS DATE CADD Filename: R1015 scp.26.dgn
REVISIONS	INIT.	DATE						

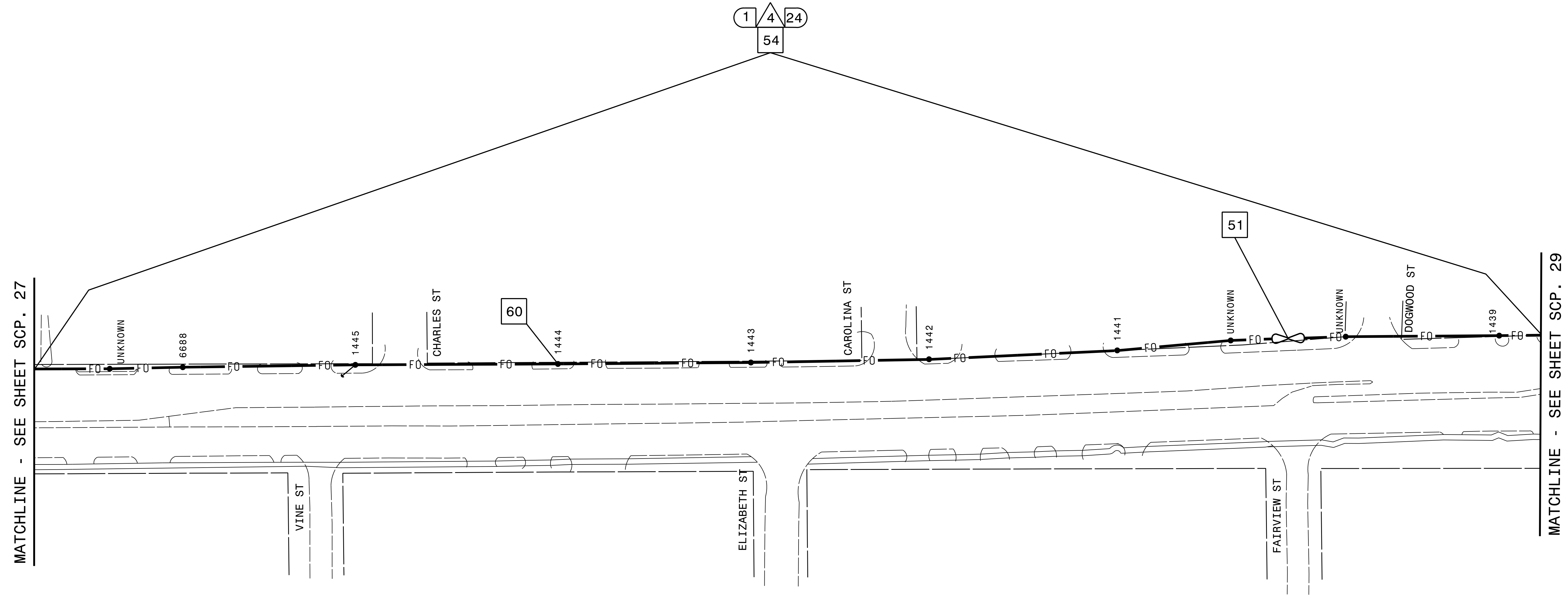


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
SCALE 0 50 1"=50'	REVISIONS INIT. DATE		CADD Filename: R1015 scp. 27.dgn



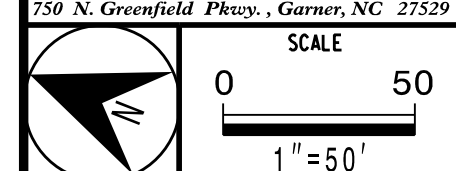
NOTES:

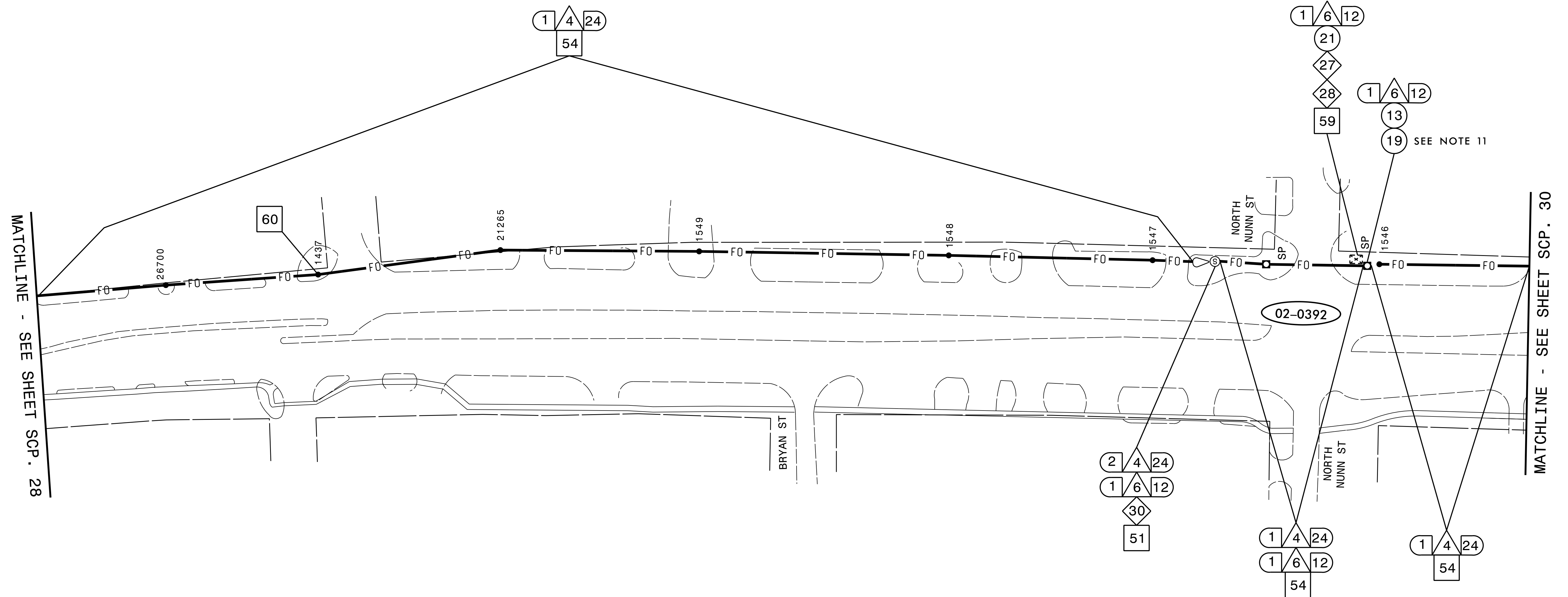
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
750 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 FID486F3AD454 SIGNATURE DATE CADD Filename: R1015 scp 28.dgn

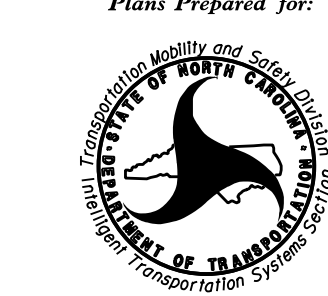
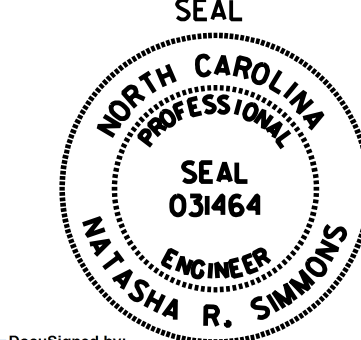




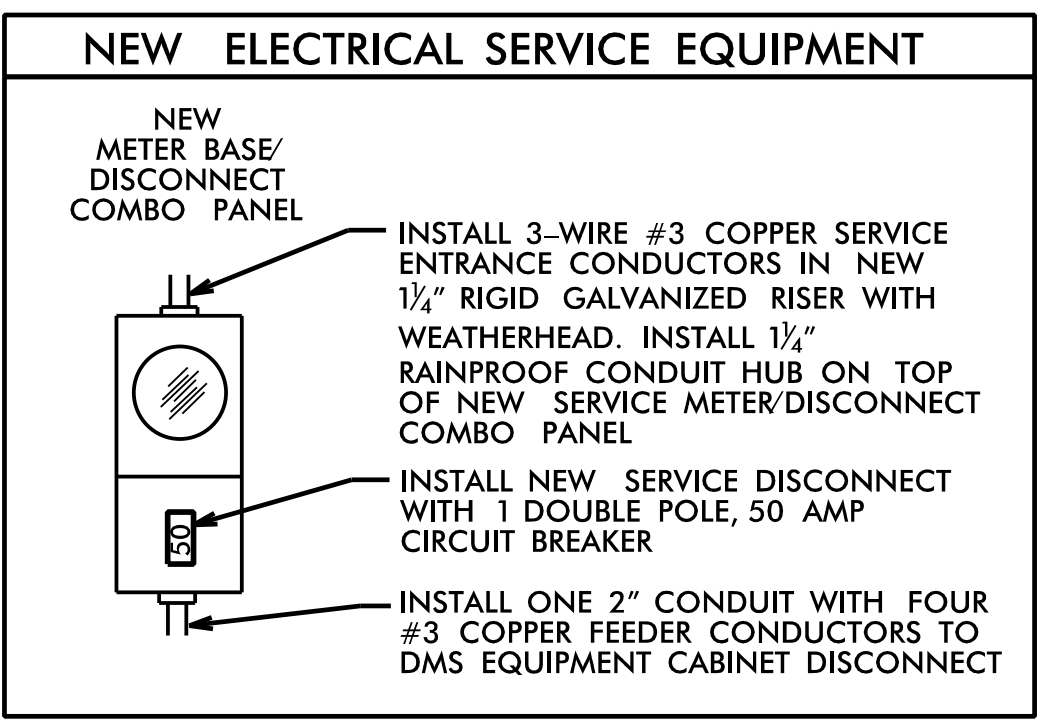
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

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

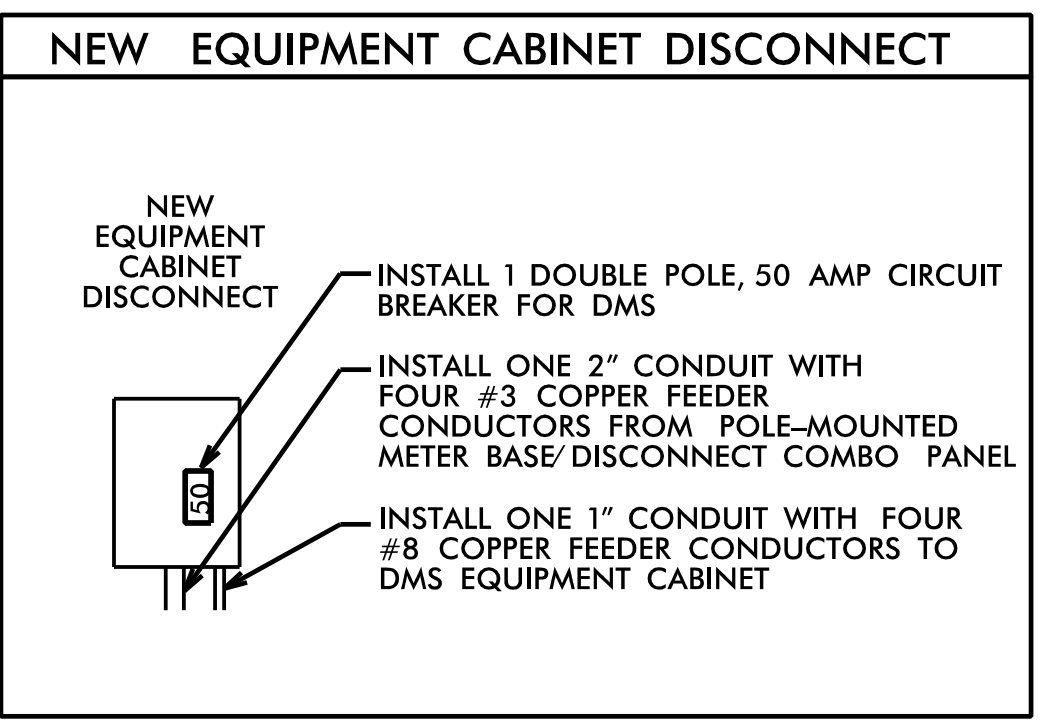
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS								
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE					
REVISIONS	INIT.	DATE									
SCALE 0 50 1"=50'	Notarized by: Natasha R. Simmons 12/7/2018 SEAL NATASHA R. SIMMONS DATE		CADD Filename: R1015 scp 29.dgn								

DRAWING 1

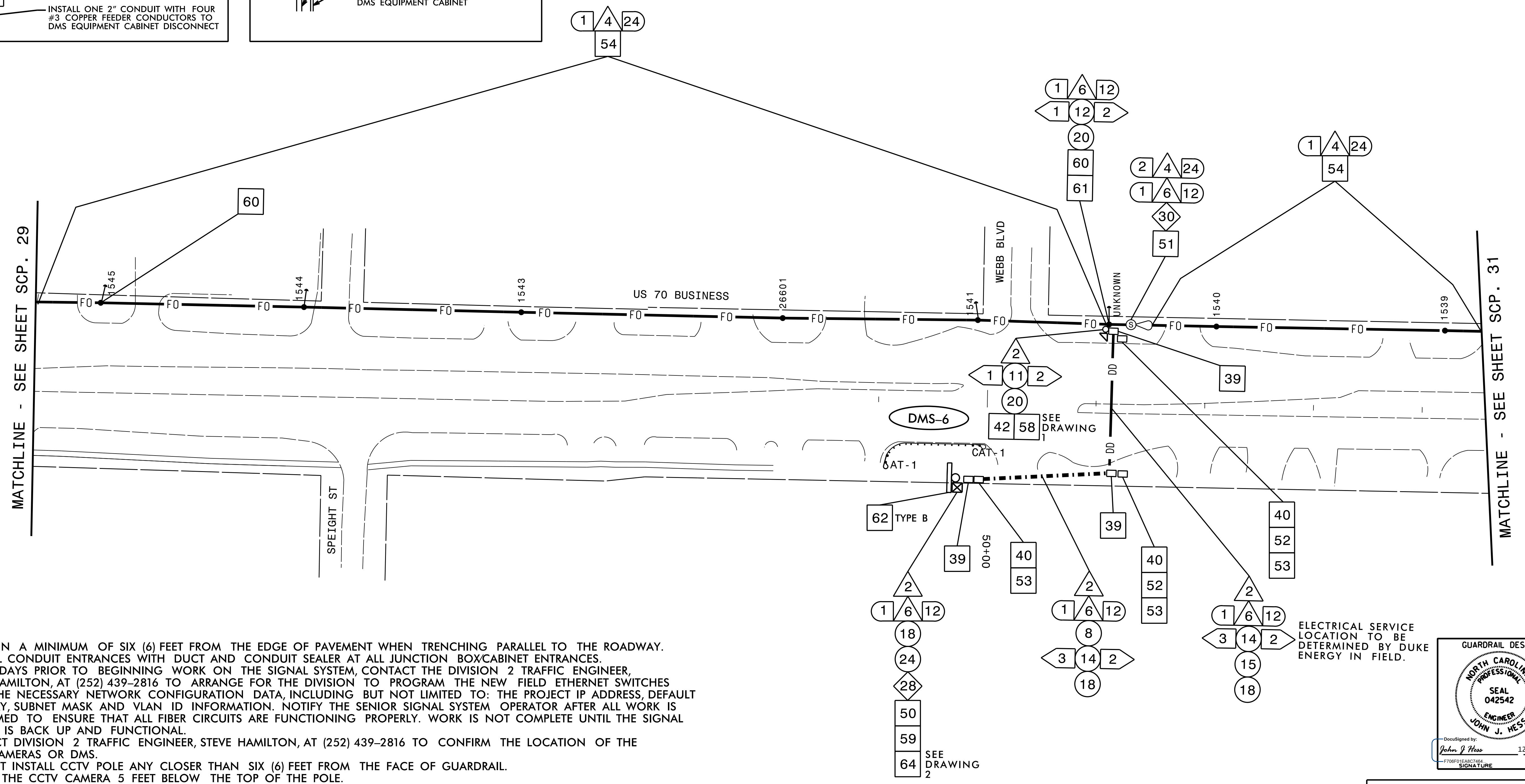


DRAWING 2



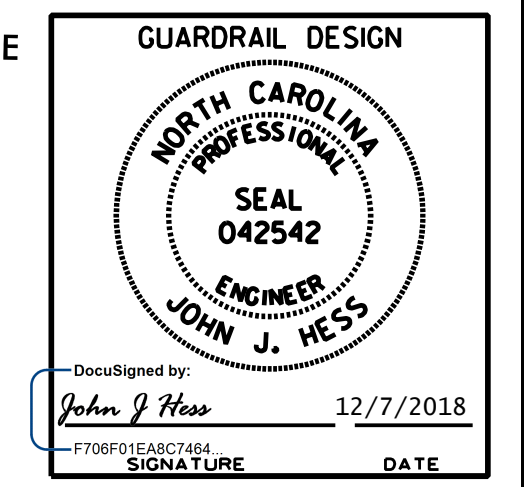
DMS-6 GPS COORDINATES

N 34° 51.384'
W 76° 53.515'

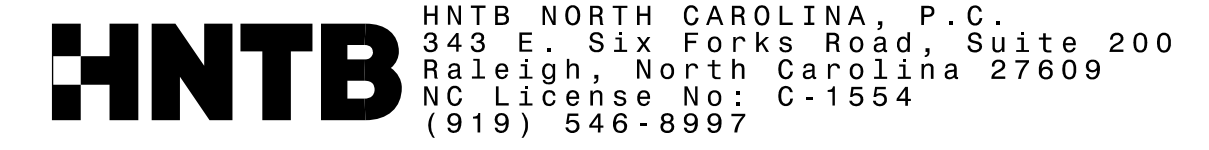


- #### NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
 12. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

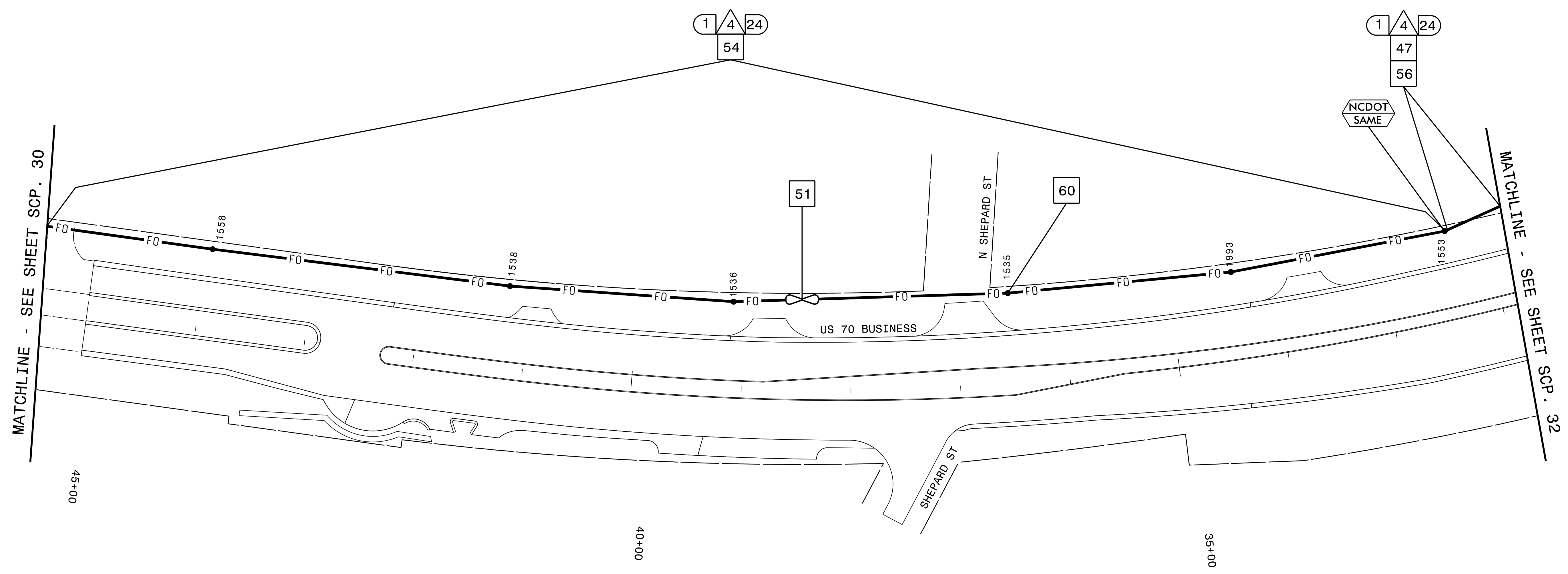
ELECTRICAL SERVICE LOCATION TO BE DETERMINED BY DUKE ENERGY IN FIELD.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
250 N. Greenfield Pkwy., Garner, NC 27529 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997		SCALE 0 50 1" = 50'	DocuSigned by: Natasha R. Simmons 12/7/2018 SIGNATURE DATE



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

GUARDRAIL DESIGN

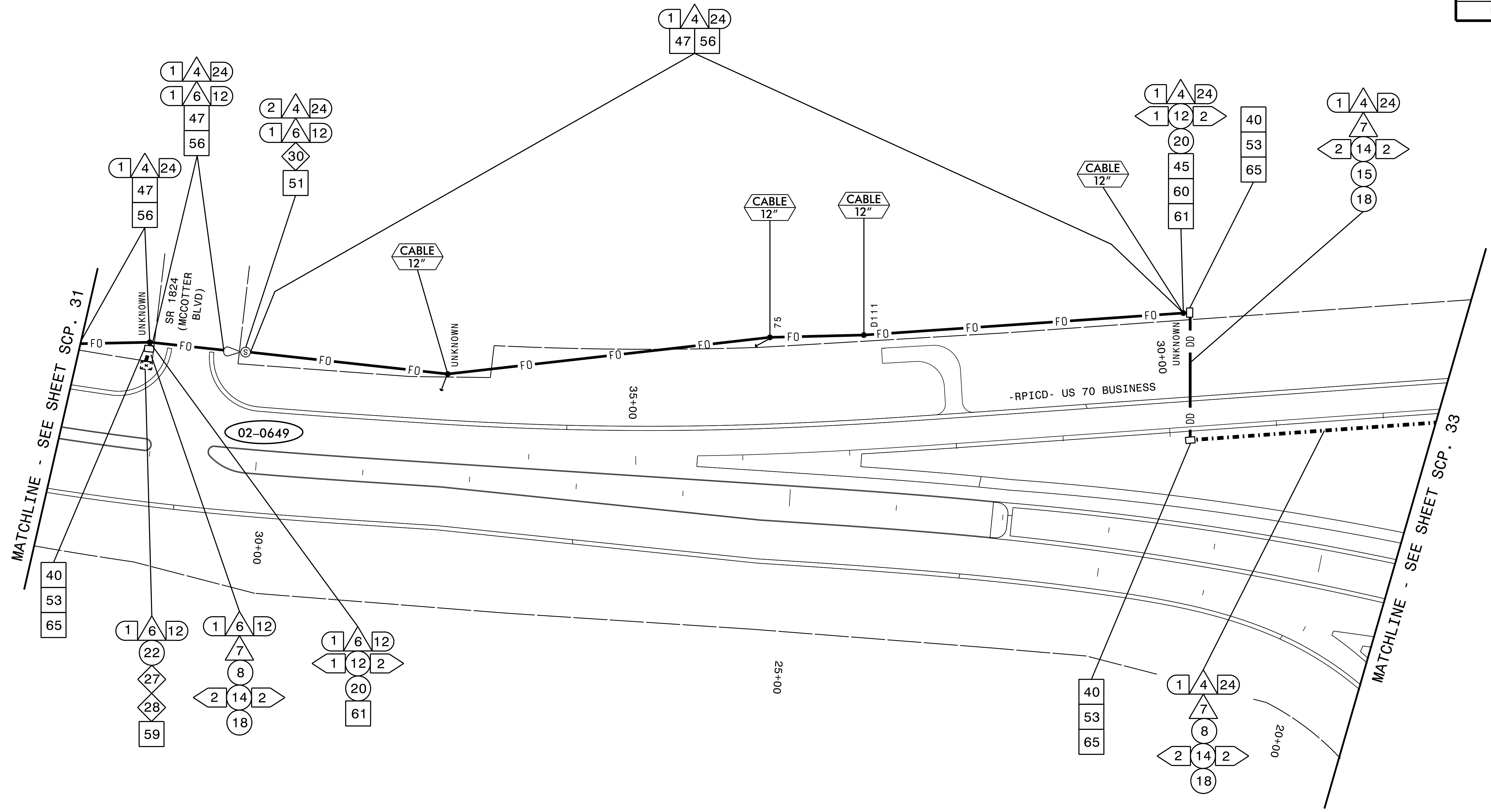
DocuSigned by:
John J. Hess 12/7/2018
F70F07EABCT044
SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons		
REVISIONS _____ _____ _____	INIT. _____ _____ _____	DATE _____ _____ _____	DocuSigned by: Natasha R. Simmons 12/7/2018 F0DAB0F3AD4454 SIGNATURE DATE CADD Filename: R1015 scp 31.dgn

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997




SCALE
 0 50
 1"=50'



- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

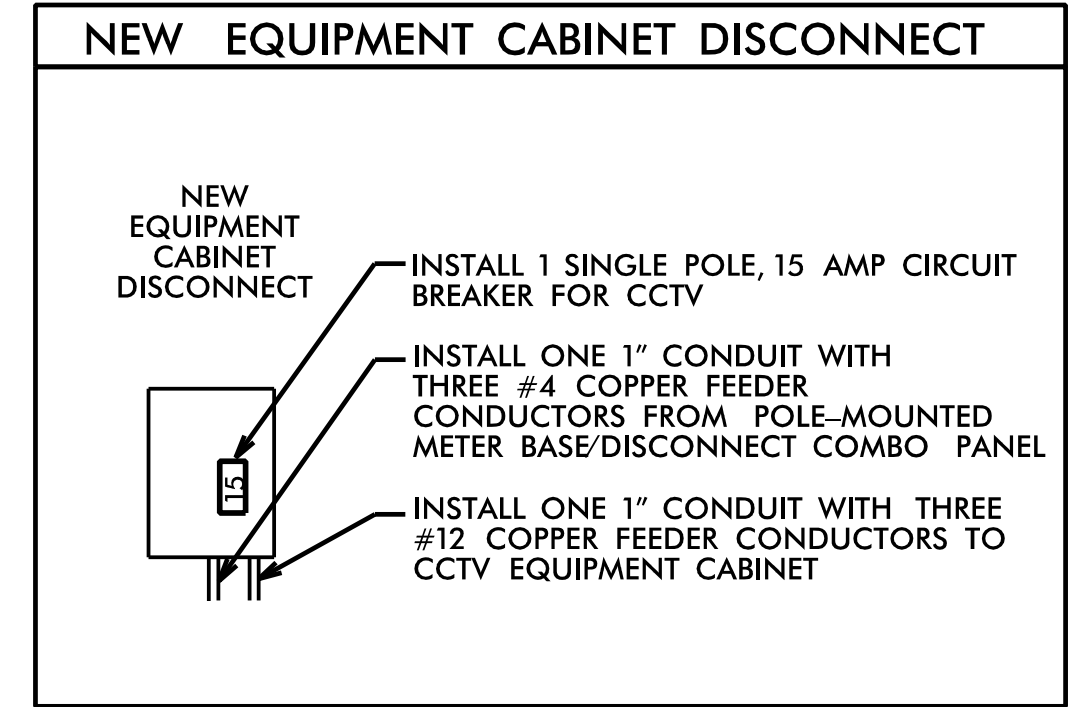
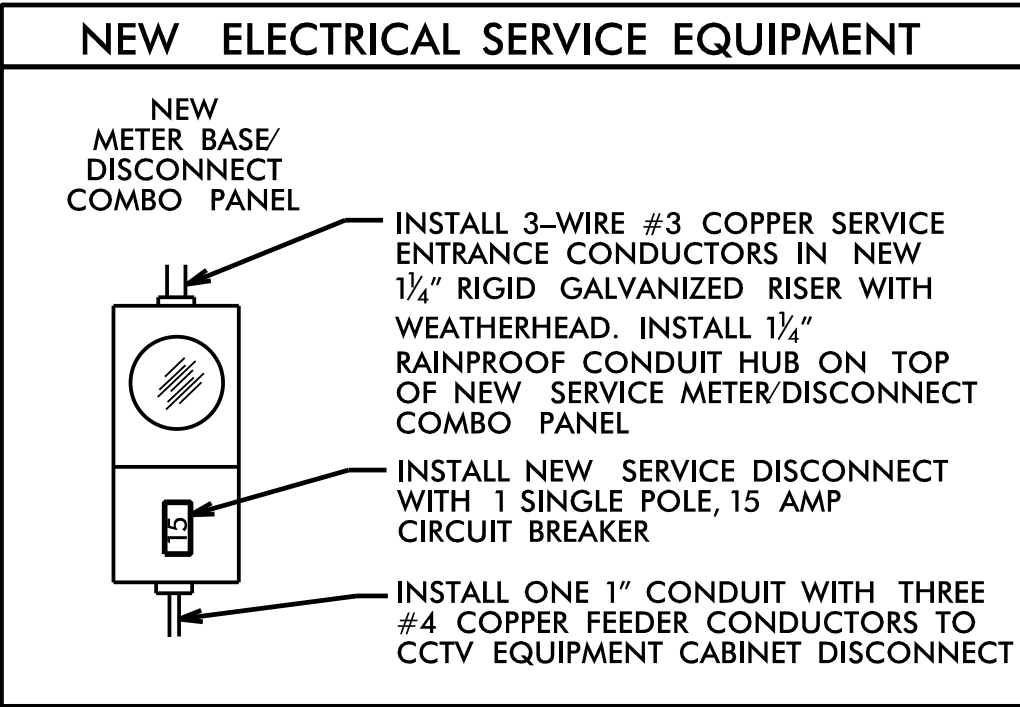
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

 Plans Prepared for: US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	Division 02 Craven Co. Havelock		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS
	PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
250 N. Greenfield Place - Garner, NC 27529 	SCALE 0 50 1"=50'	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE	CADD Filename: R1015 scp. 32.dgn

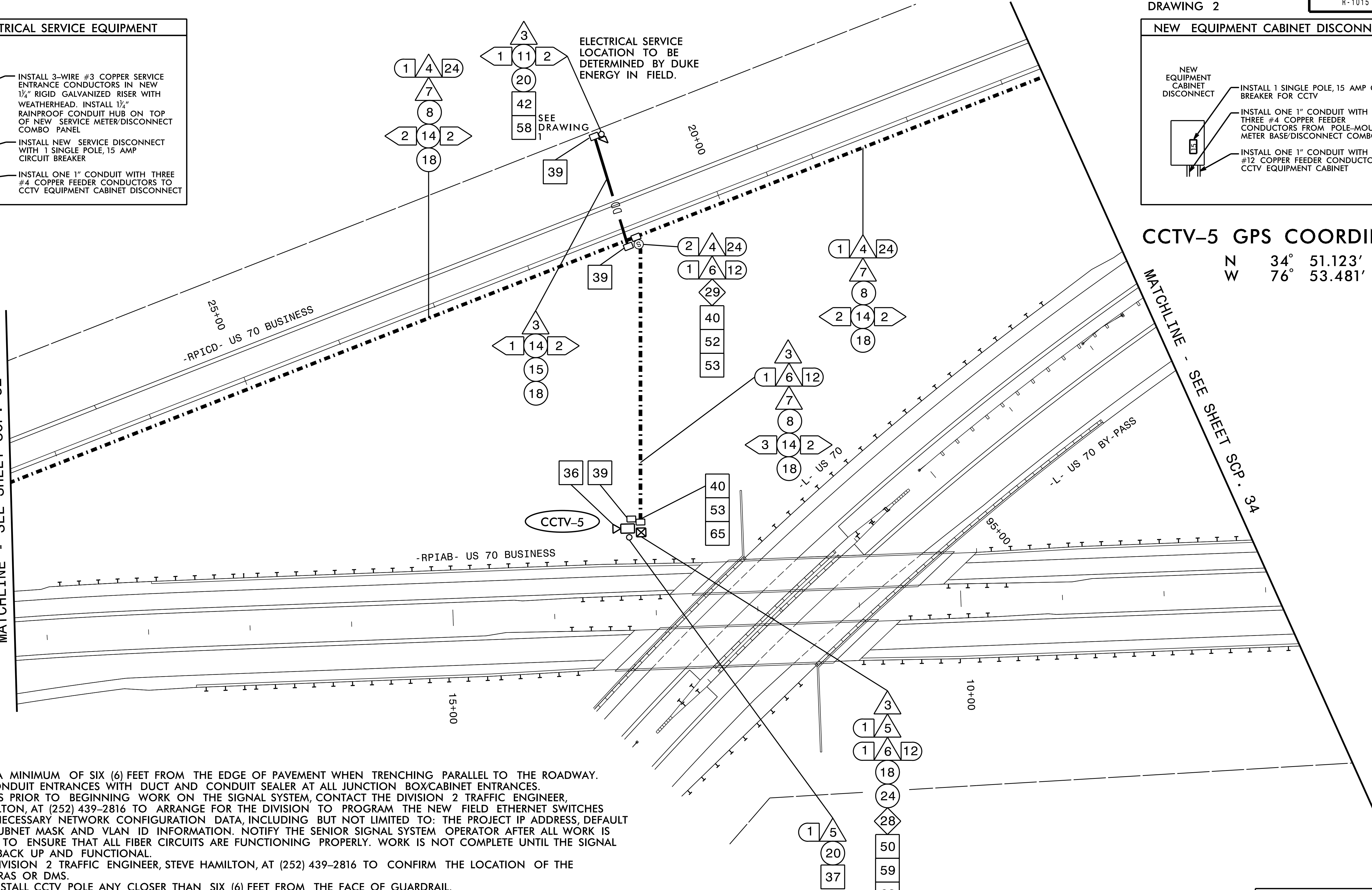
DRAWING 1

DRAWING 2



MATCHLINE - SEE SHEET SCP. 32

MATCHLINE - SEE SHEET SCP. 34



CCTV-5 GPS COORDINATES

N 34° 51.123'
W 76° 53.481'

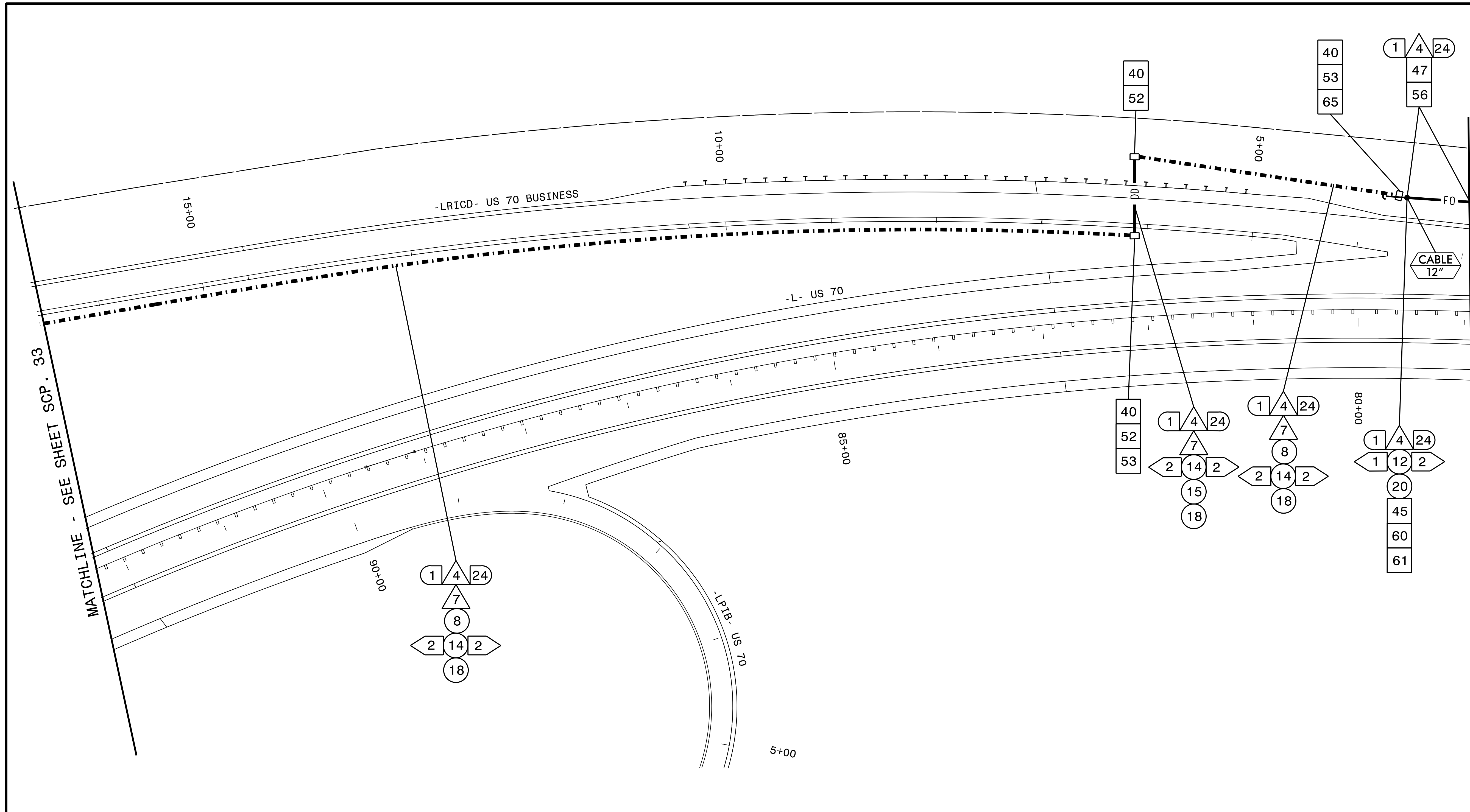
- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

	<p>US 70 HAVELOCK BYPASS CABLE ROUTING PLAN</p>		
	<p>Division 02 Craven Co. Havelock</p>	<p>PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell</p>	
<p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>PREPARED BY: N.K. Vlanich</p>	<p>REVIEWED BY: N.R. Simmons</p>	<p>DocuSigned by: Natasha R. Simmons 12/7/2018</p>
<p>SCALE 0 50 1"=50'</p>	<p>REVISIONS</p>	<p>INIT. DATE</p>	<p>SIGNATURE DATE</p>
<p>CADD Filename: R1015 scp.33.dgn</p>			

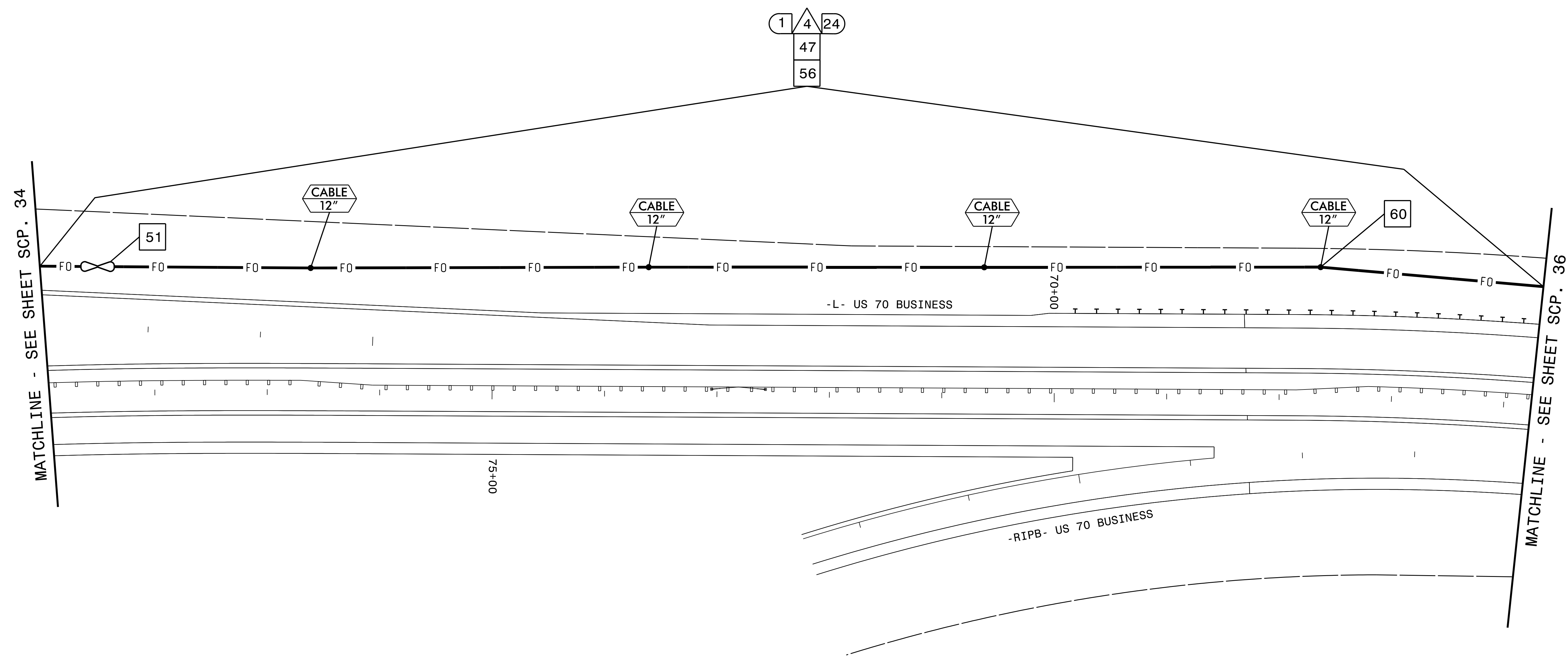


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	DocuSigned by: Natasha R. Simmons 12/7/2018 FIDABDF3AD45A SIGNATURE DATE
SCALE 0 50 1"=50'	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	CADD Filename: R1015 scp 34.dgn



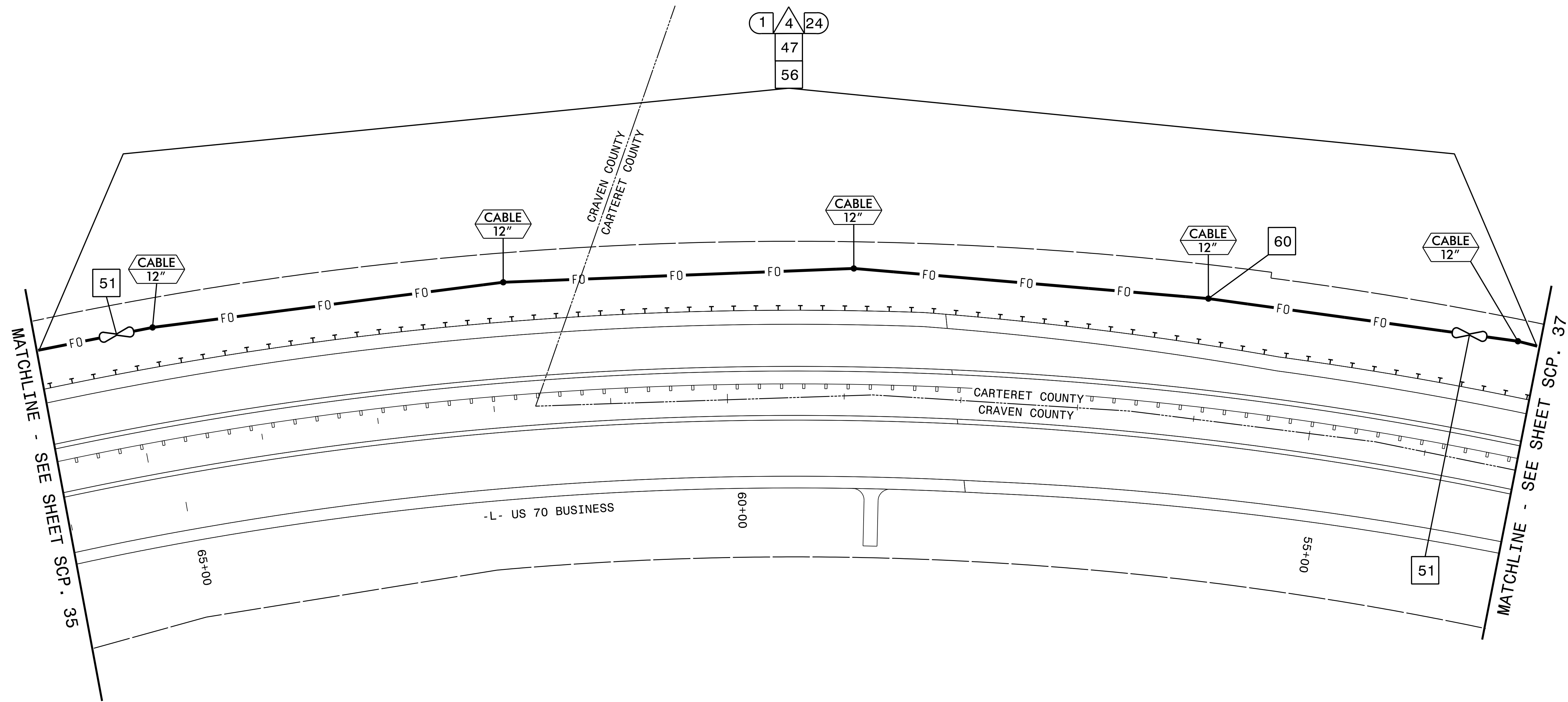
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell	
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 FE0A80F3AD45A SIGNATURE DATE
SCALE 0 50 1"=50'			CADD Filename: R1015 scp.35.dgn



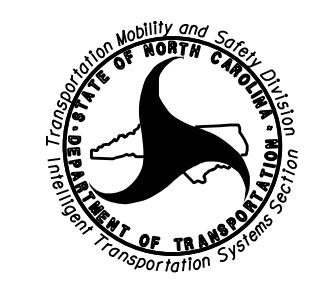

NOTES:

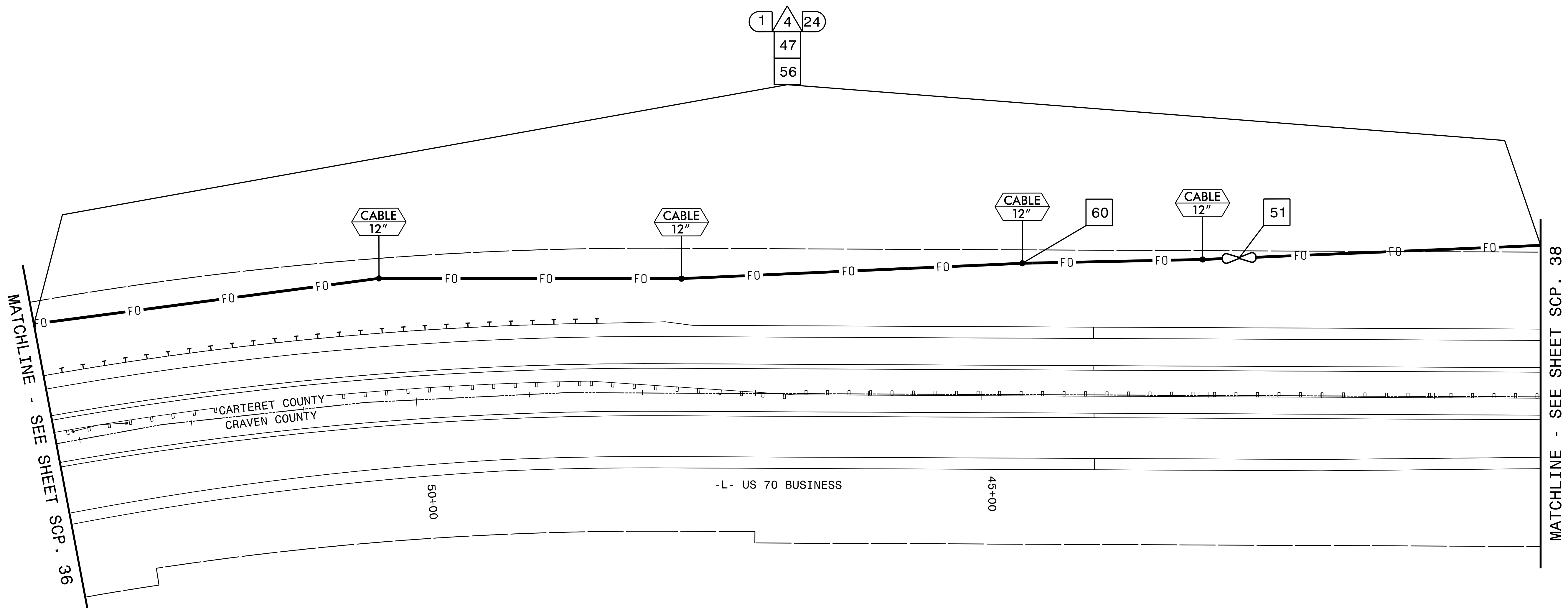
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE
SCALE 0 50 1"=50'		DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE CADD File name: R1015 scp. 36.dgn	



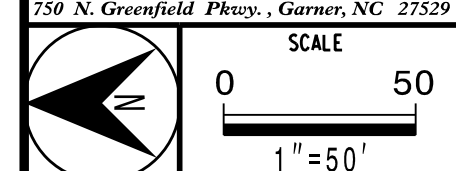
NOTES:

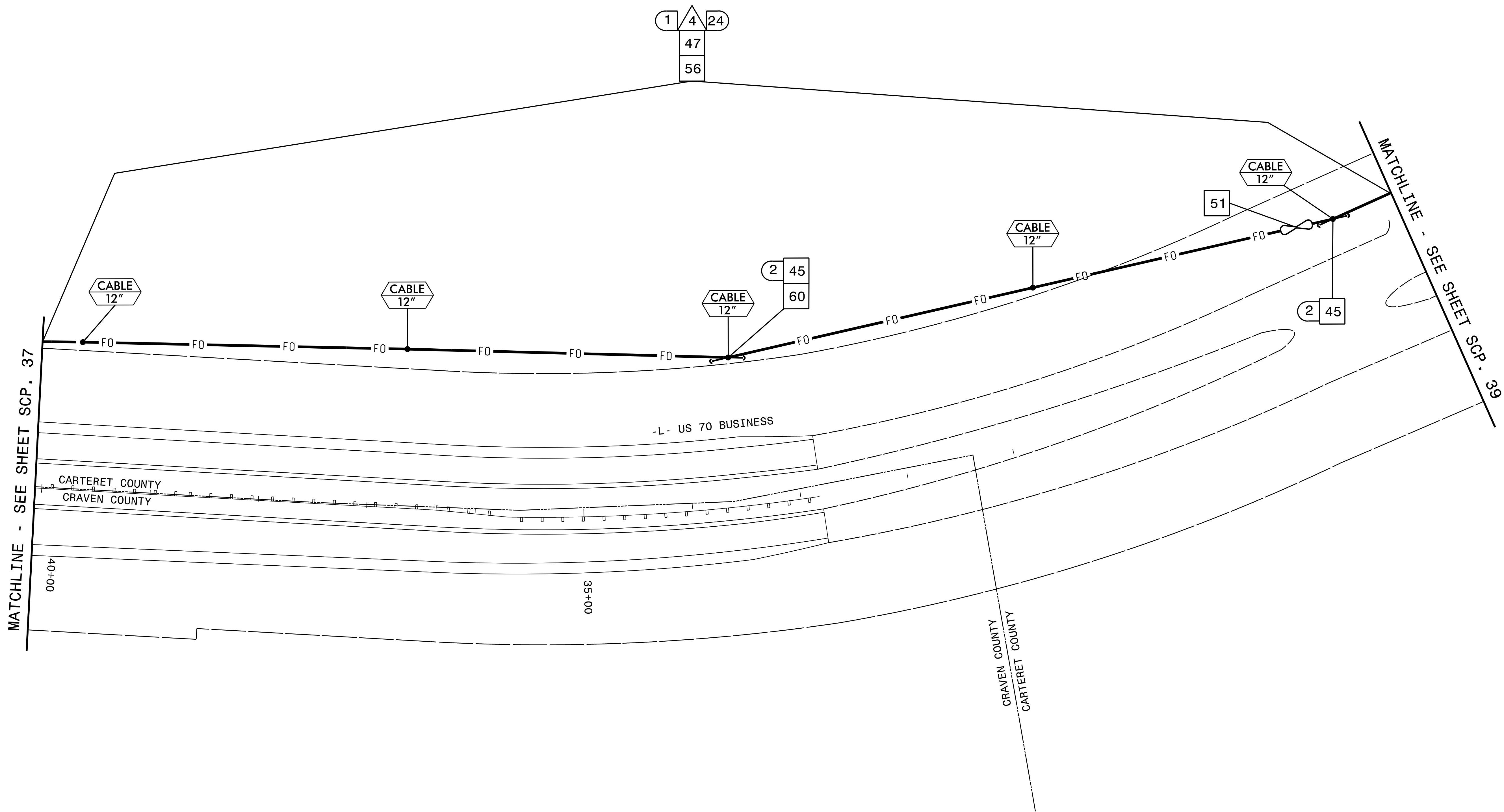
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell			DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons			
REVISIONS		INIT.	DATE
CADD Filename: R1015 scp. 37.dgn			

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997




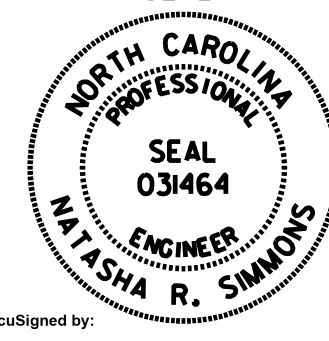


NOTES:

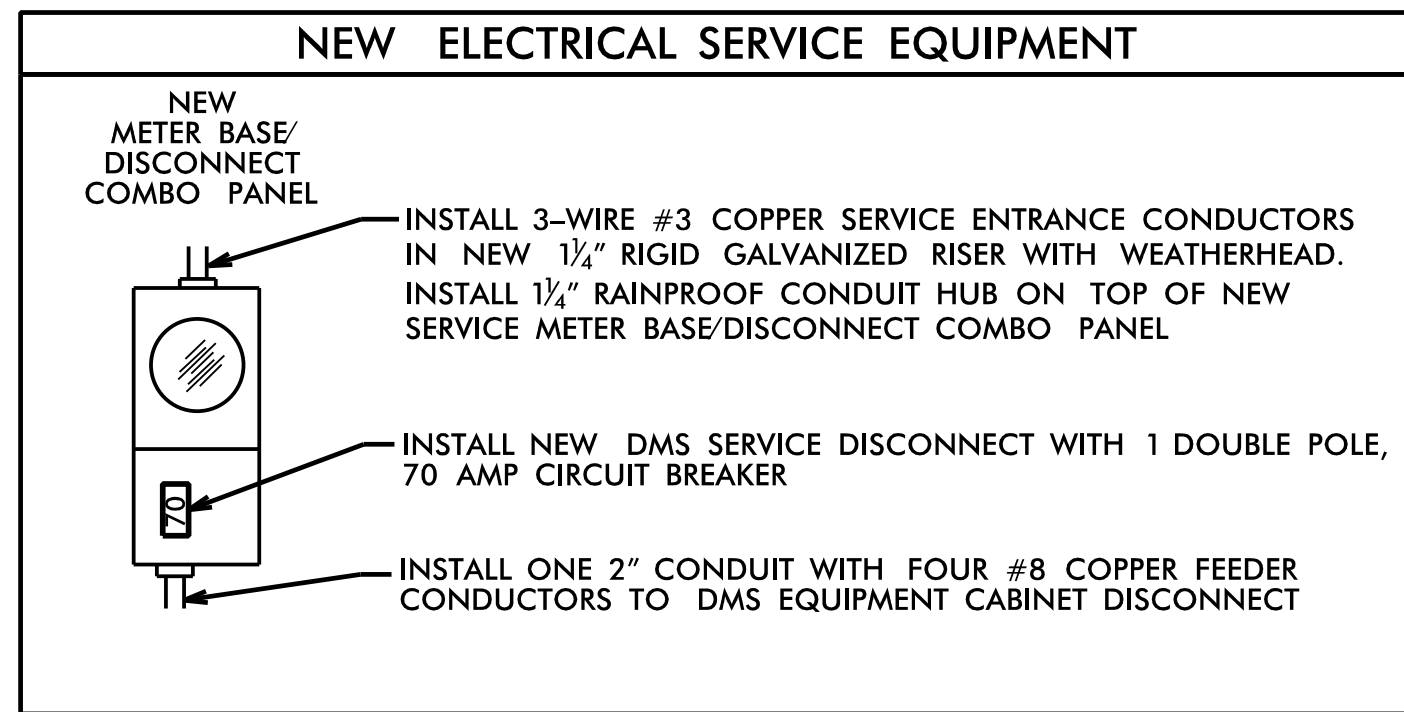
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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

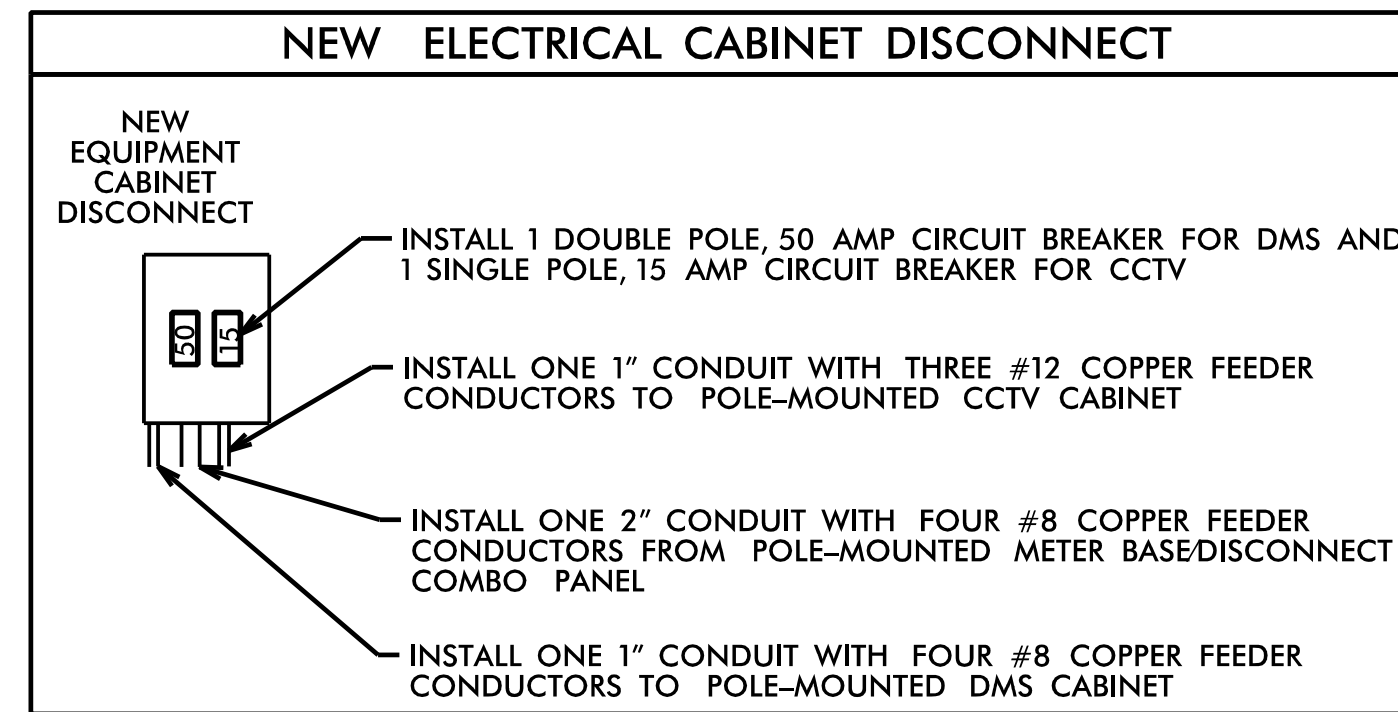
HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
SCALE 0 50 1"=50'	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	DocuSigned by: Natasha R. Simmons 12/7/2018 _____ SIGNATURE DATE CADD Filename: R1015_scp_38.dgn

DRAWING 1

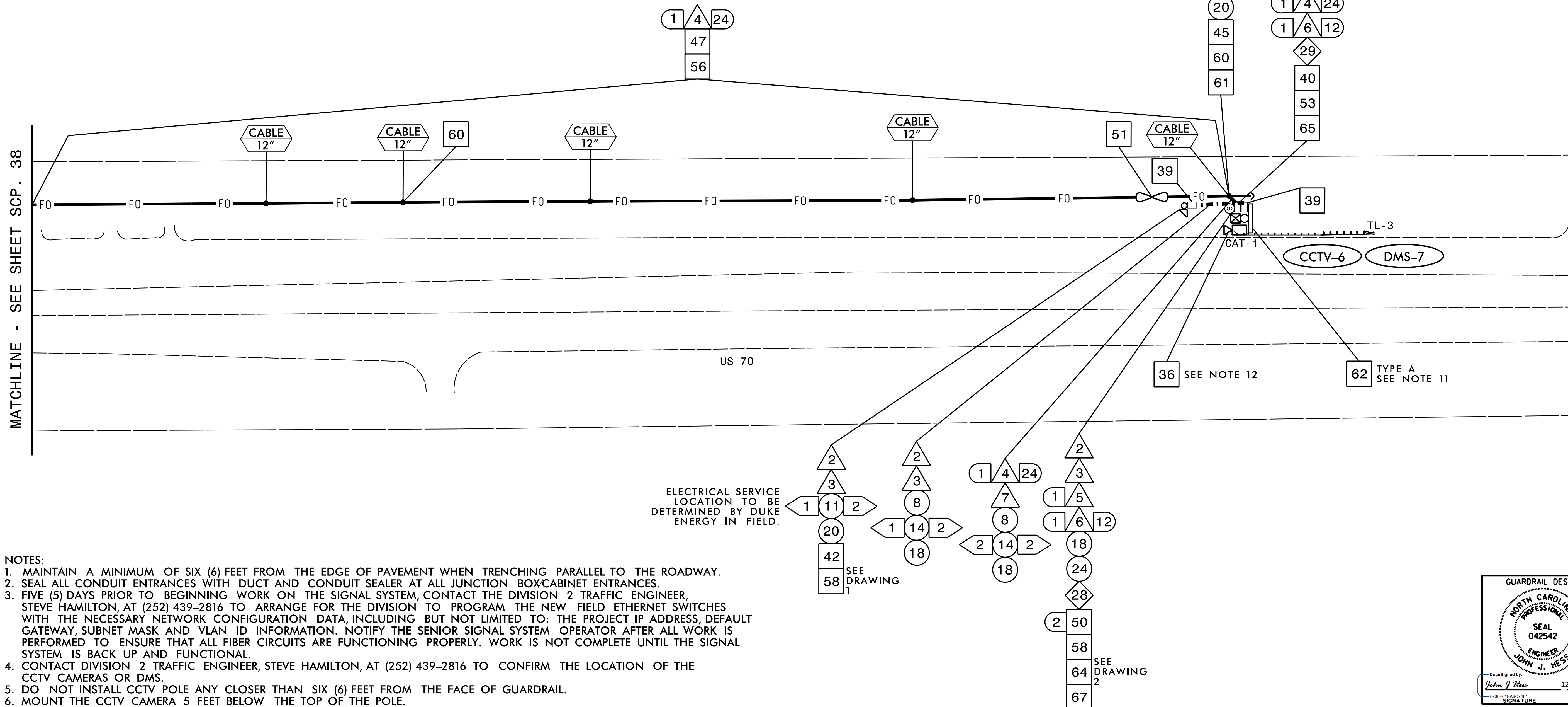


DRAWING 2



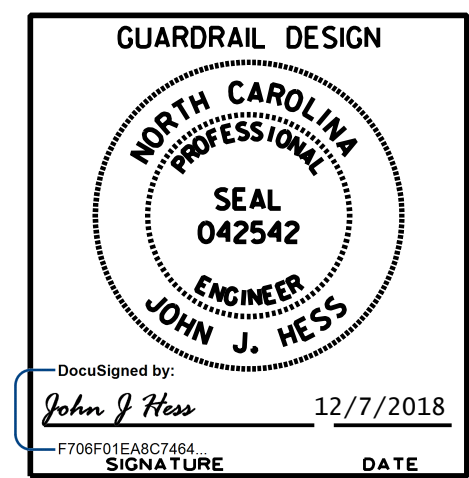
CCTV-6 /DMS-7 GPS COORDINATES

N 34° 49.970'
W 76° 52.788'



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. INSTALL A NEW DMS WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
12. INSTALL CCTV ON CCTV EXTENSION POLE.
13. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Plans Prepared for:

US 70 HAVELOCK BYPASS CABLE ROUTING PLAN

Division 02 Craven Co. Havelock

PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell

PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

DocuSigned by: Natasha R. Simmons 12/7/2018

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS

DocuSigned by: Natasha R. Simmons 12/7/2018

CADD Filename: R1015 scp.39.dgn

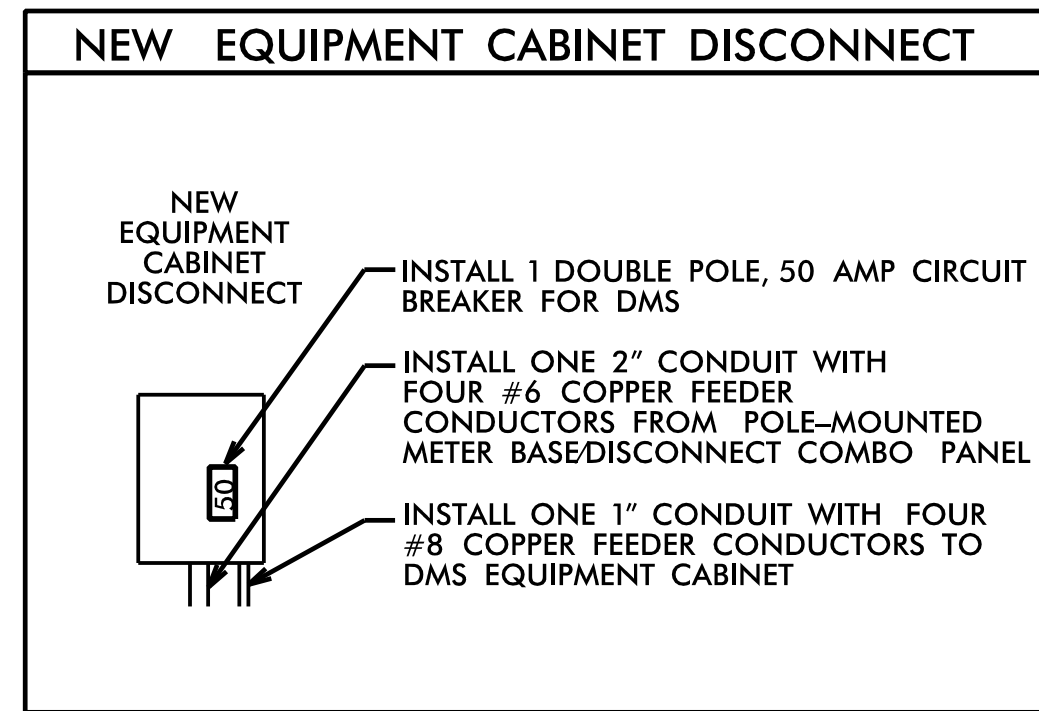
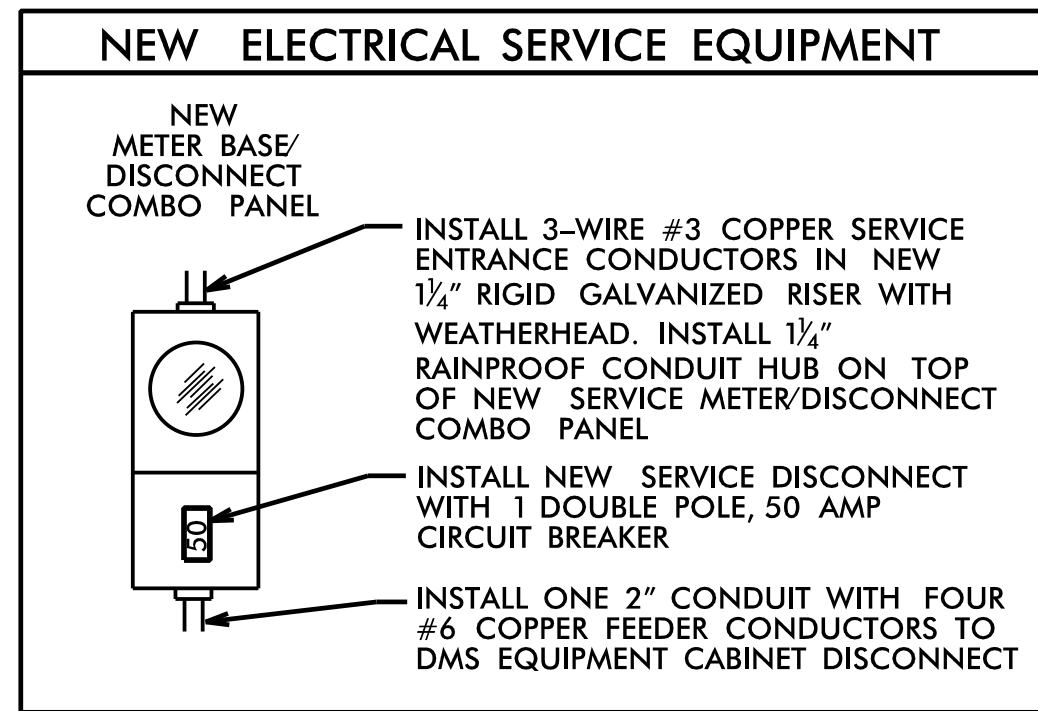
HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

SCALE
0 50
1"=50'

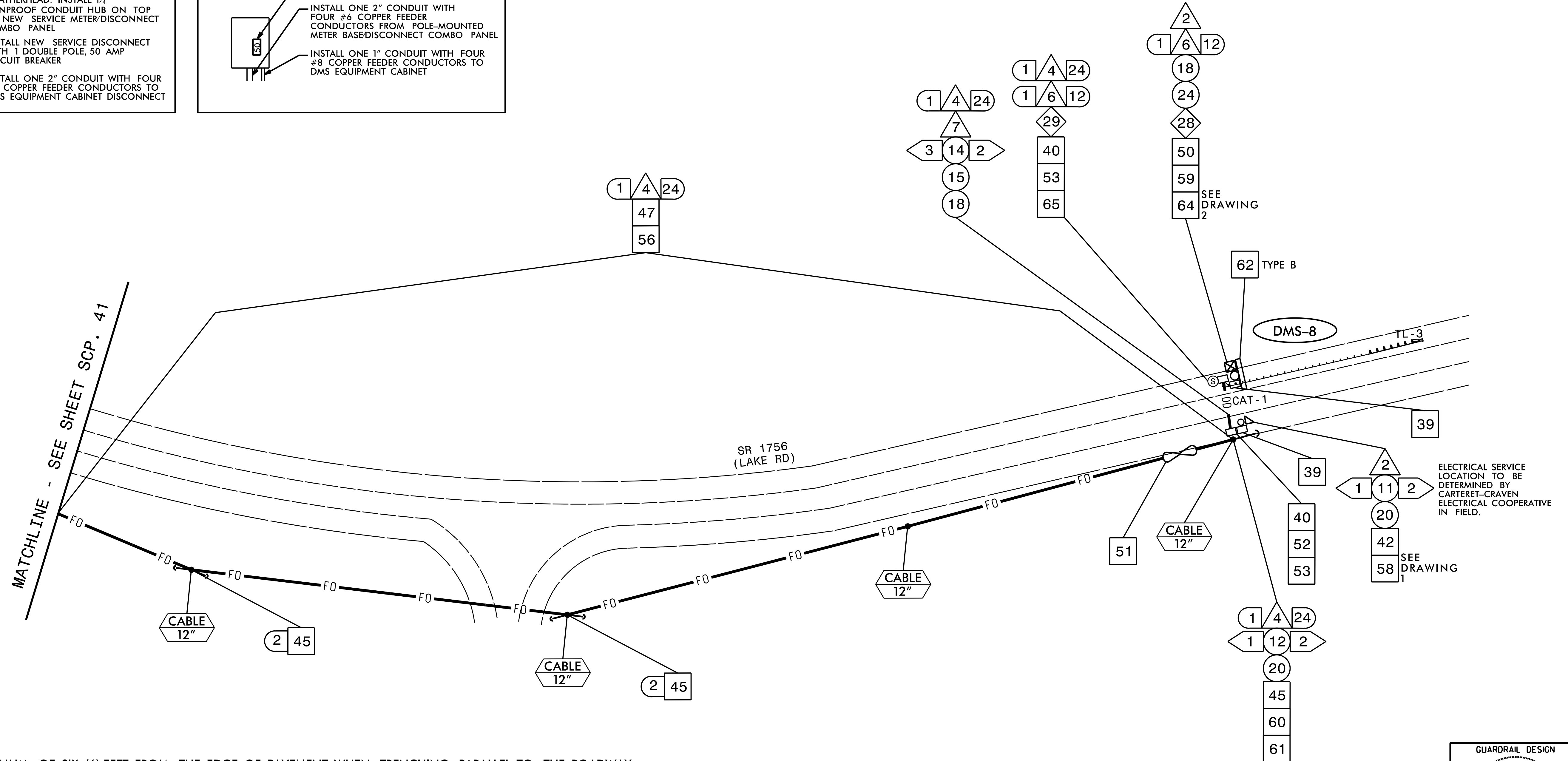
DRAWING 1

DRAWING 2



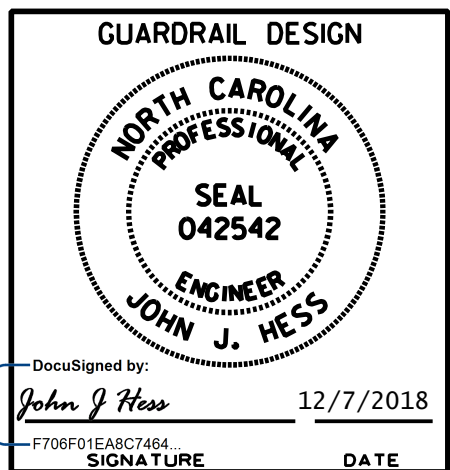
DMS-8 GPS COORDINATES

N 34° 51.660'
W 76° 56.869'



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.



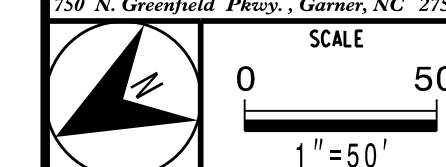
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

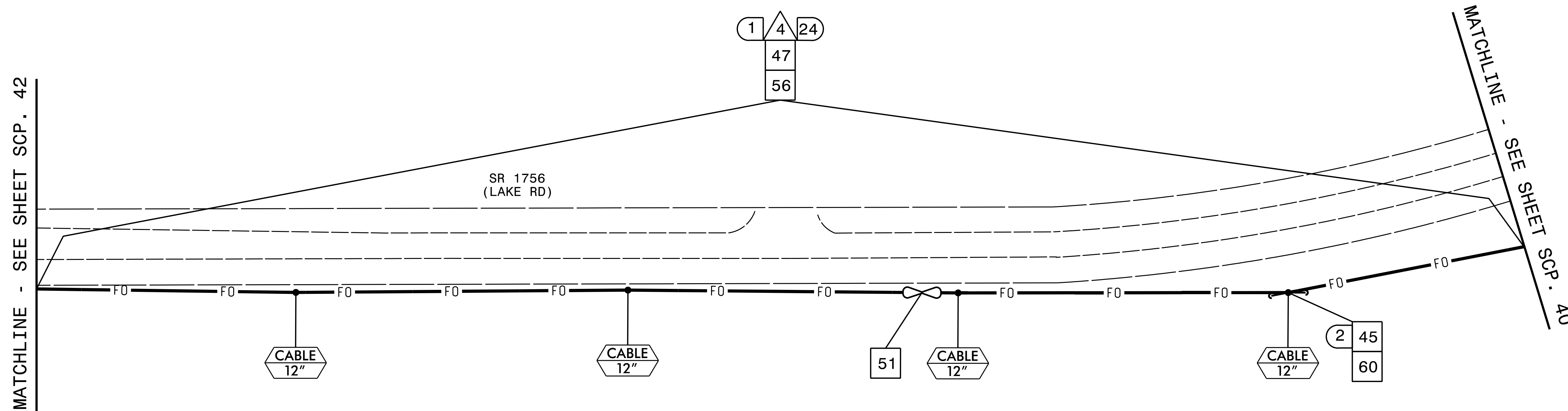
HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

<p>Plans Prepared for:</p>	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		<p>SEAL 031464 ENGINEER NATASHA R. SIMMONS</p> <p>DocuSigned by: Natasha R. Simmons 12/7/2018</p>	
	Division 02	Craven Co.		Havelock
	PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons			
REVISIONS	INIT.	DATE		

CADD Filename: R1015_scp_40.dgn





NOTES:

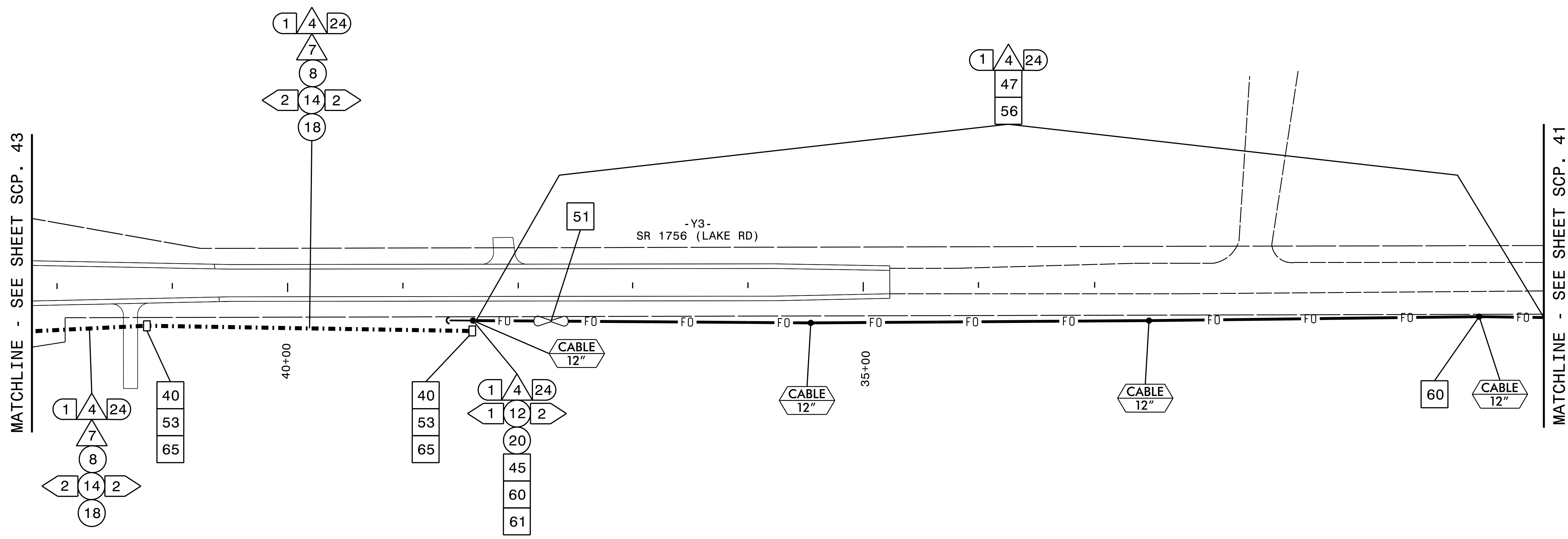
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
250 N. Greenfield Place, Garner, NC 27529 SCALE 0 50 1"=50'	REVISIONS INIT. DATE		CADD Filename: R1015 scp 41.dgn



- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

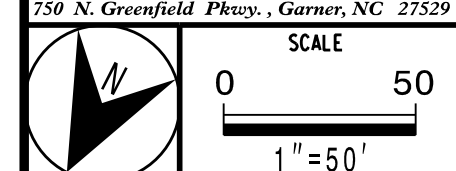
Plans Prepared for:

250 N. Greenfield Place, Garner, NC 27529

US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	
Division 02	Craven Co. Havelock
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

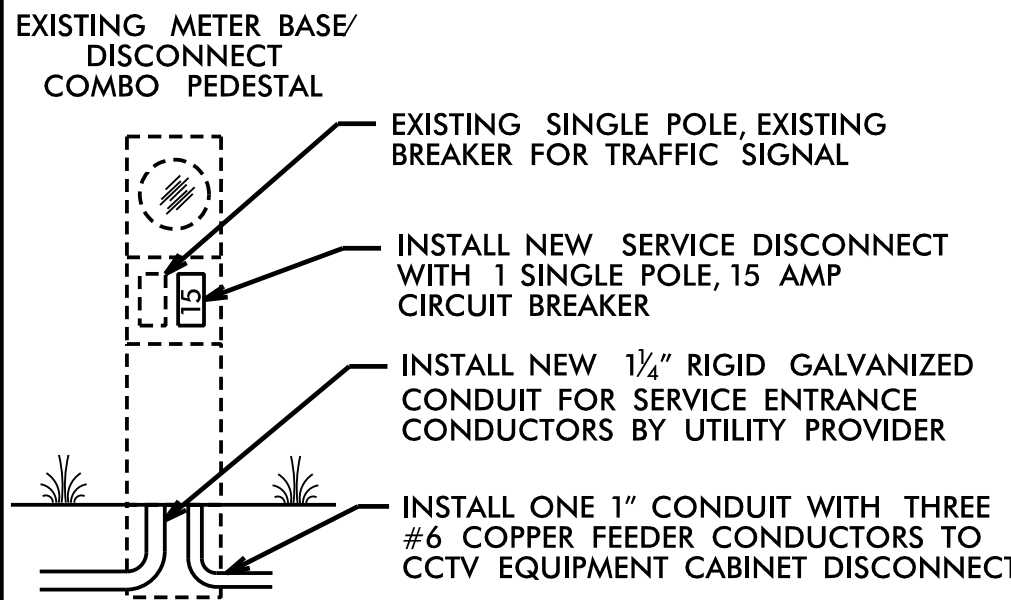
SEAL

DocuSigned by:
 Natasha R. Simmons 12/7/2018
 FEDERAL REGISTER
 SIGNATURE DATE
 CADD Filename: R1015 scp 42.dgn



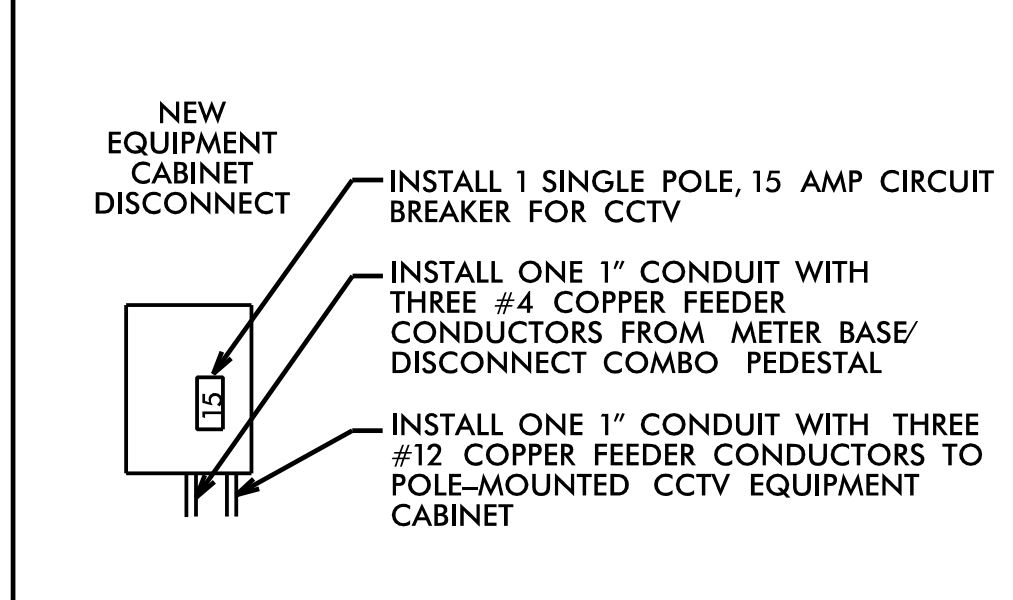
DRAWING 1

MODIFY ELECTRICAL SERVICE EQUIPMENT



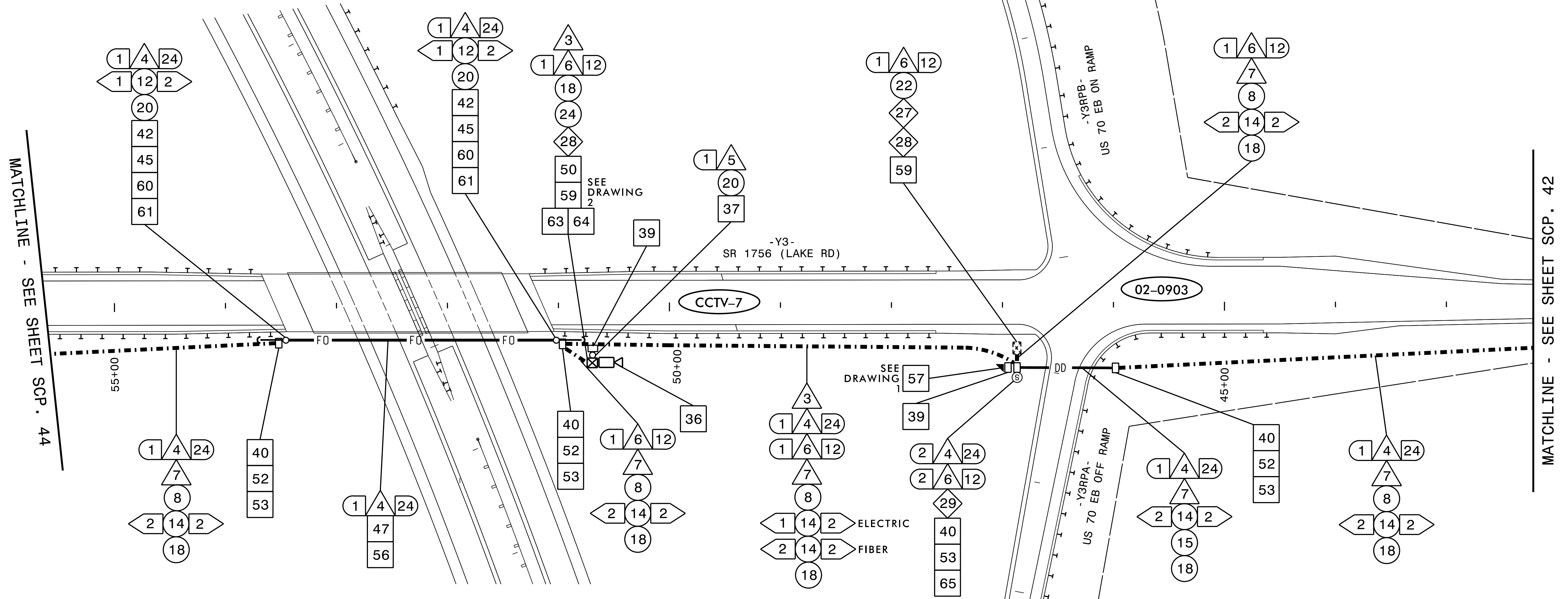
DRAWING 2

NEW EQUIPMENT CABINET DISCONNECT



CCTV-7 GPS COORDINATES

N 34° 52.062'
W 76° 56.192'

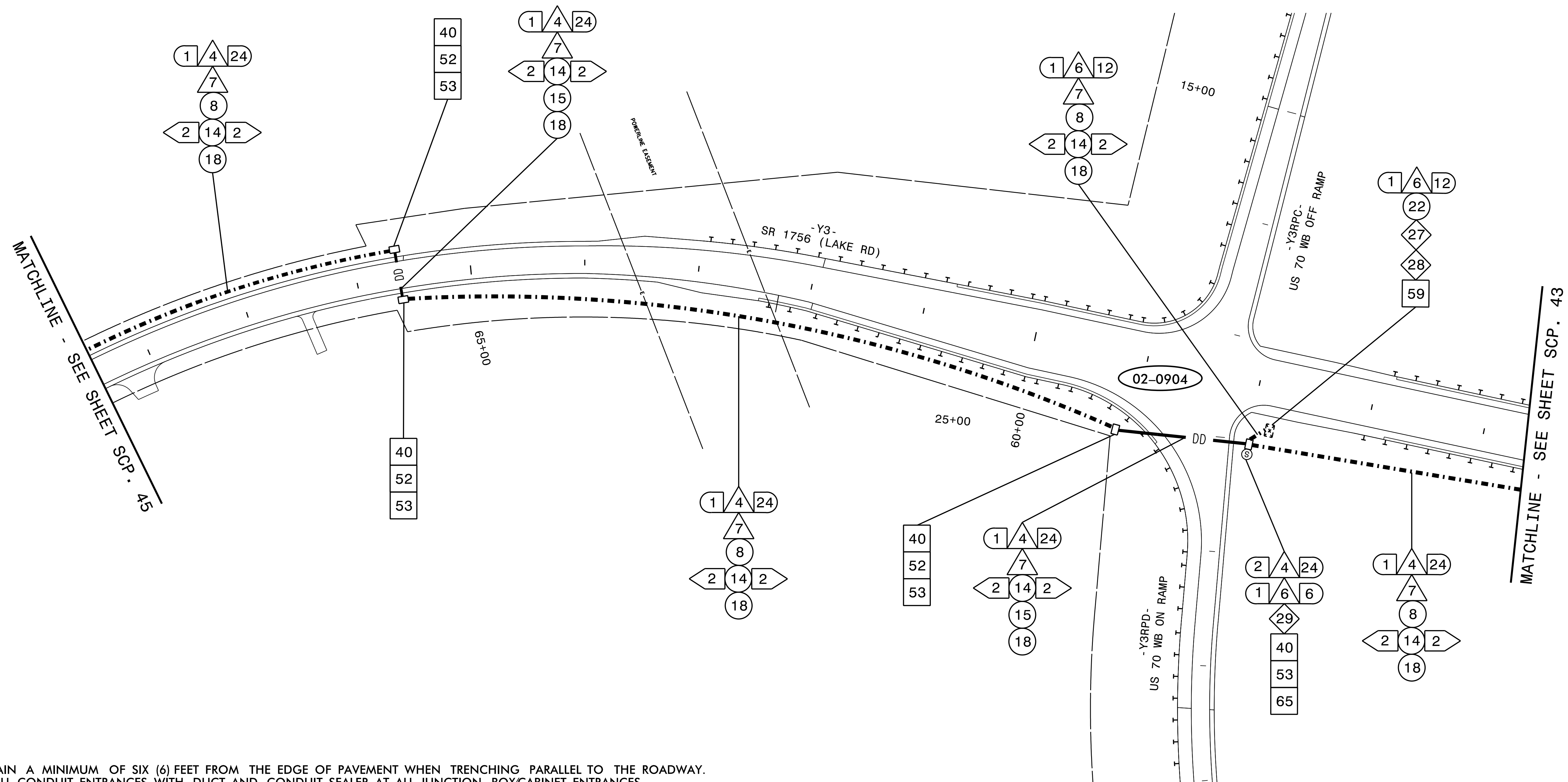


NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE
HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997		SCALE 0 50 1"=50'	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL NATASHA R. SIMMONS ENGINEER SEAL 031464

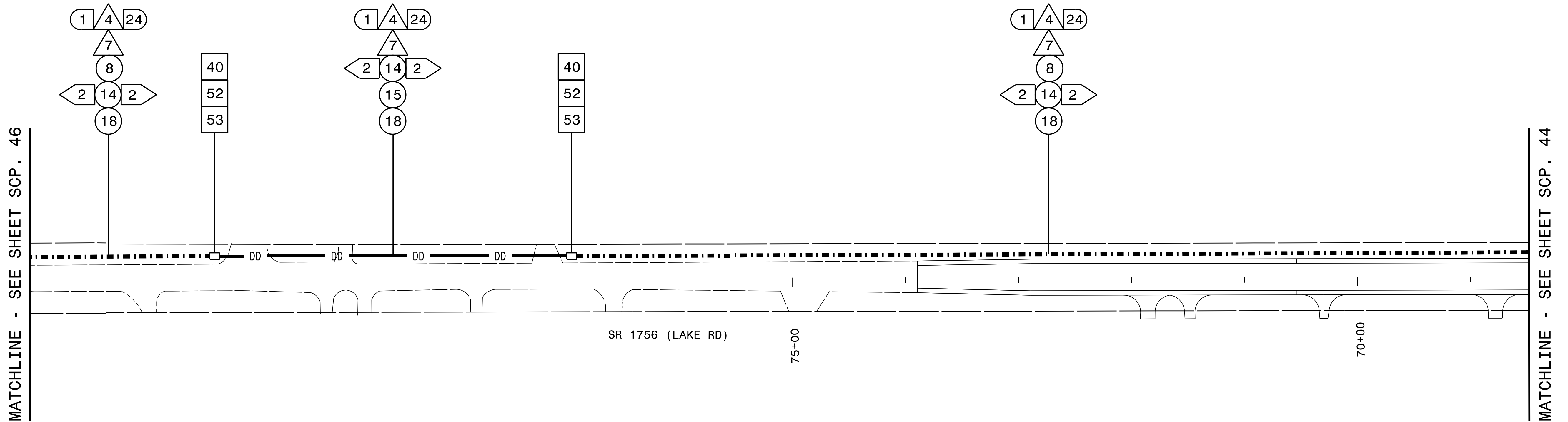


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE
SCALE: 1"=50'		DocuSigned by: Natasha R. Simmons 12/7/2018	
CADD Filename: R1015 scp 44.dgn		SIGNATURE DATE	



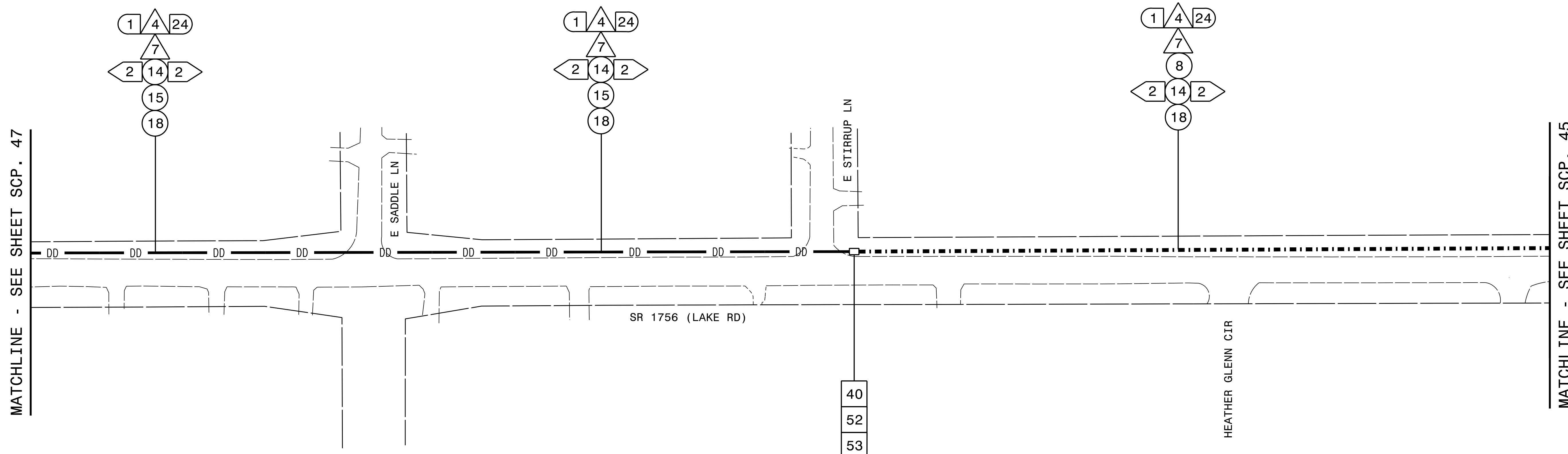
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. NCDOT DIVISION 2 WILL FURNISH AND INSTALL THE CCTV AND DMS CELL MODEM. CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 SIX (6) WEEKS PRIOR TO BEGINNING WORK.

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

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
250 N. Greenfield Place, Garner, NC 27529	PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell	
	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	
SCALE 0 50 1"=50'	REVISIONS	INIT. DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL SIGNATURE DATE
			CADD File name: R1015 scp 45.dgn



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

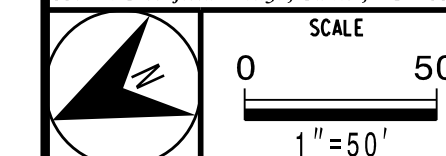
Plans Prepared for:

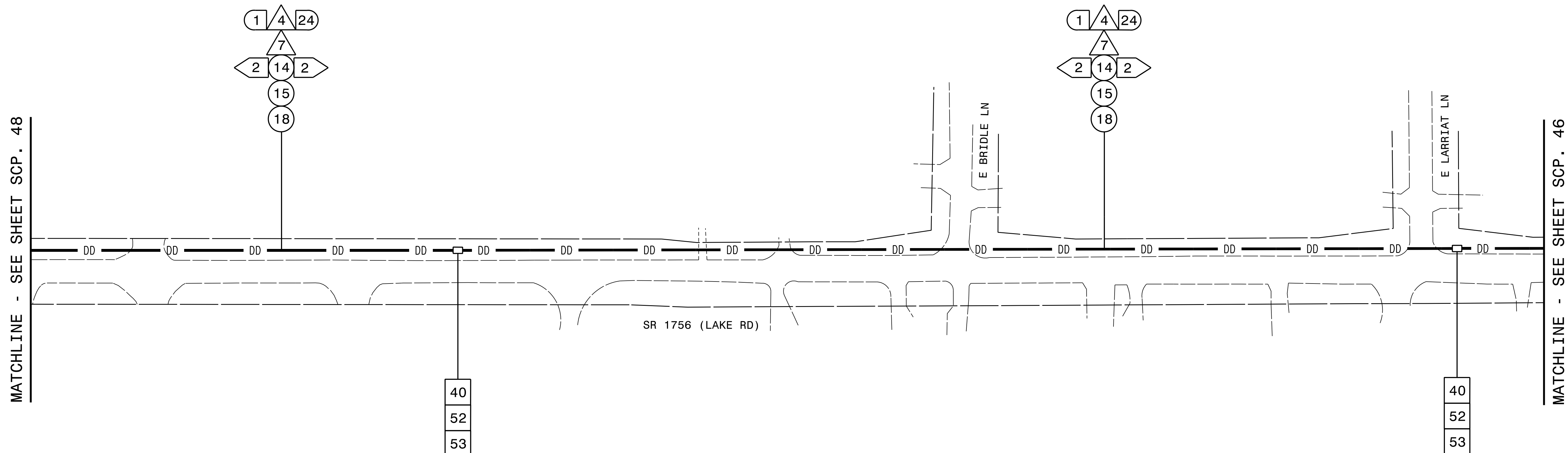
250 N. Greenfield Place, Garner, NC 27529

US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	
Division 02	Craven Co. Havelock
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL

DocuSigned by:
Notasha R. Simmons 12/7/2018
FEDABDF3AD454
SIGNATURE DATE
CADD Filename: R1015 scp. 46.dgn







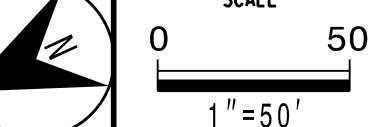
NOTES:

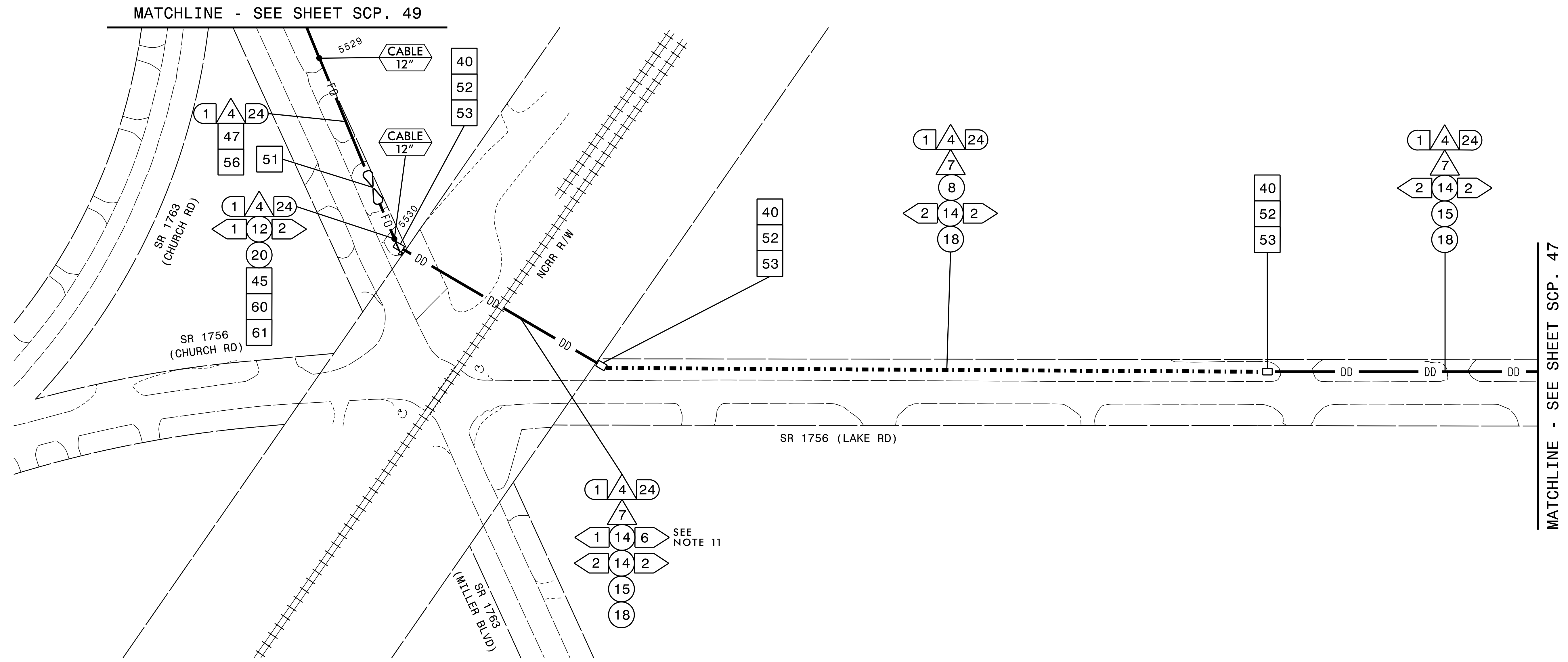
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		SEAL  NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell	
SCALE 	REVISIONS _____	INIT. DATE _____	DocuSigned by: Natasha R. Simmons 12/7/2018 _____ SIGNATURE DATE CADD Filename: R1015 scp 47.dgn



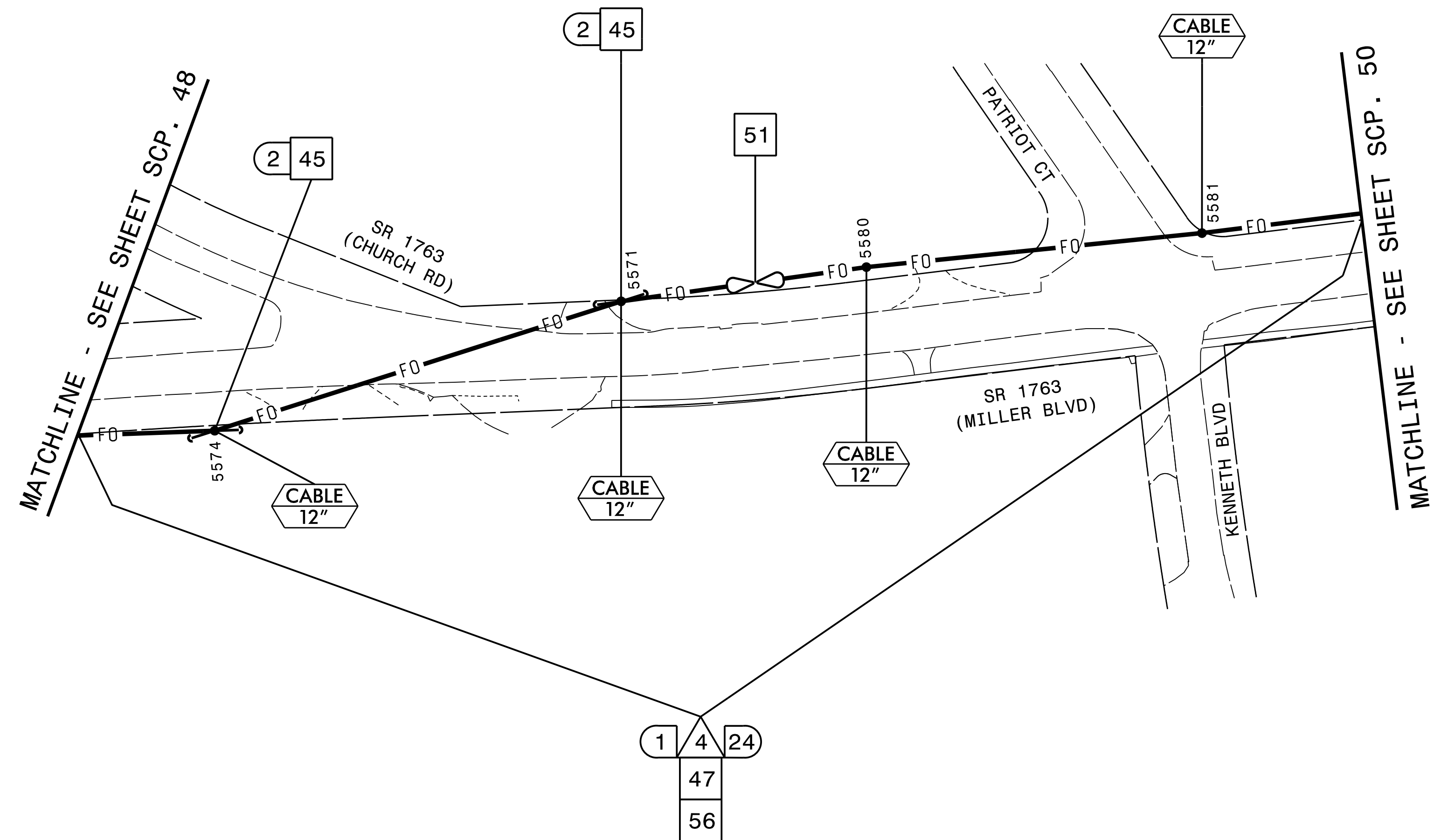
- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. INSTALL TWO (2) INCH CONDUITS IN SIX (6) INCH CONDUIT UNDER RAILROAD TRACKS AT A DEPTH OF FIFTEEN (15) FEET BELOW BASE OF RAIL.

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

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

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE _____ _____ _____	

Notarized by: *Notasha R. Simmons* 12/7/2018
 SEAL
 NATASHA R. SIMMONS
 SIGNATURE DATE
 CADD Filename: R1015 scp 48.dgn




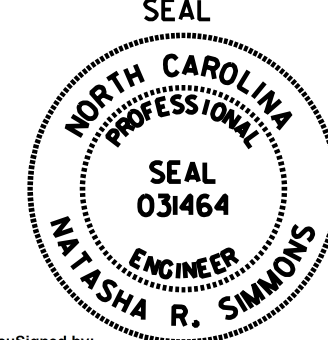
NOTES:

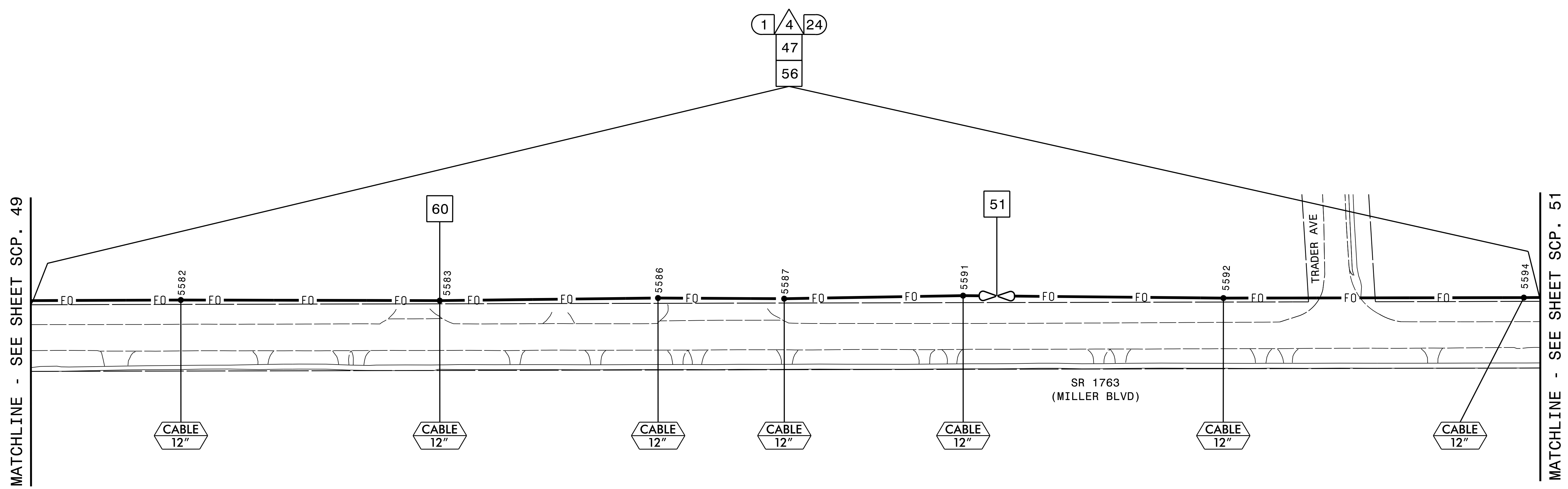
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997




Plans Prepared for: 	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell			
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons			
REVISIONS	INIT.	DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 FEDERAL REGISTER SIGNATURE DATE
SCALE 0 50 1"=50'			CADD Filename: R1015 scp. 49.dgn

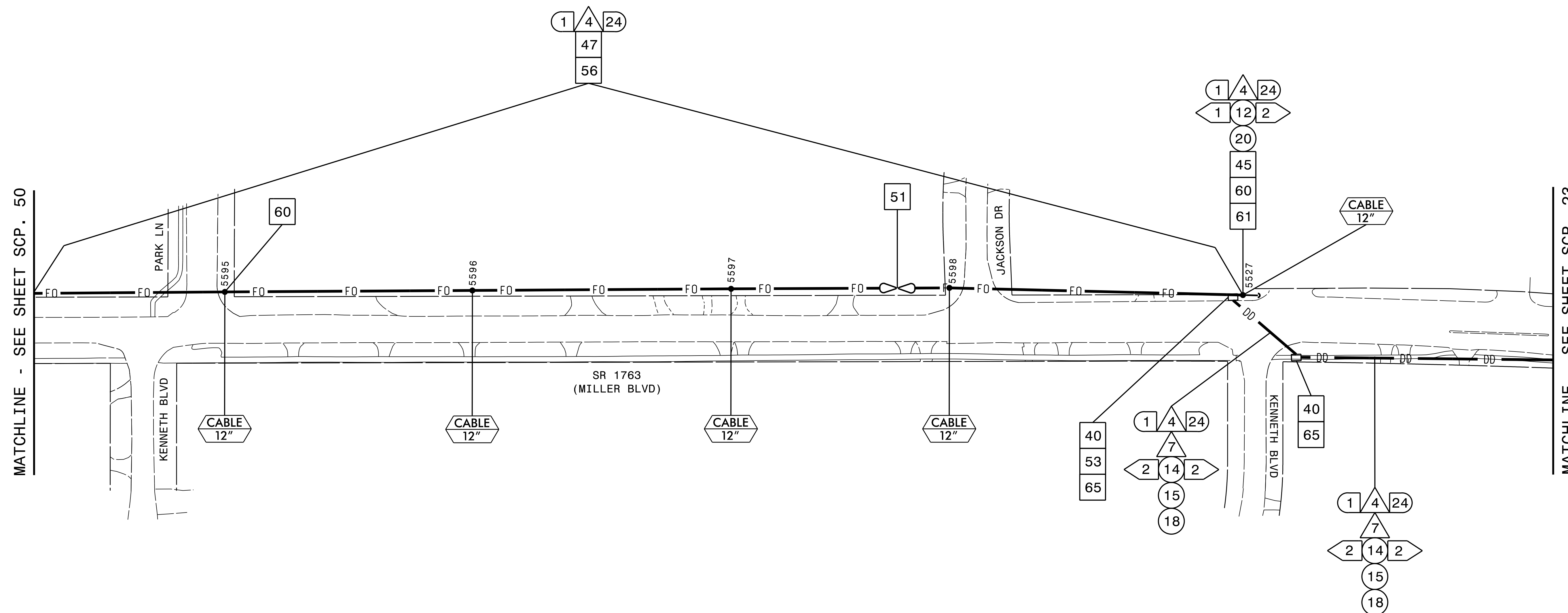


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN									
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	INIT.	DATE			
NO.	DATE	INIT.	DATE							
250 N. Greenfield Place, Garner, NC 27529  SCALE 0 50 1"=50'	DocuSigned by: Natasha R. Simmons 12/7/2018 FEDERAL REGISTERED PROFESSIONAL ENGINEER SIGNATURE DATE CADD Filename: R1015 scp 51.dgn		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 NATASHA R. SIMMONS							



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

Plans Prepared for:

250 N. Greenfield Place, Garner, NC 27529

**US 70
HAVELOCK BYPASS
CABLE ROUTING PLAN**

Division 02 Craven Co. Havelock

PLAN DATE: August 2018 REVIEWED BY: T.R. Terrell

PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons

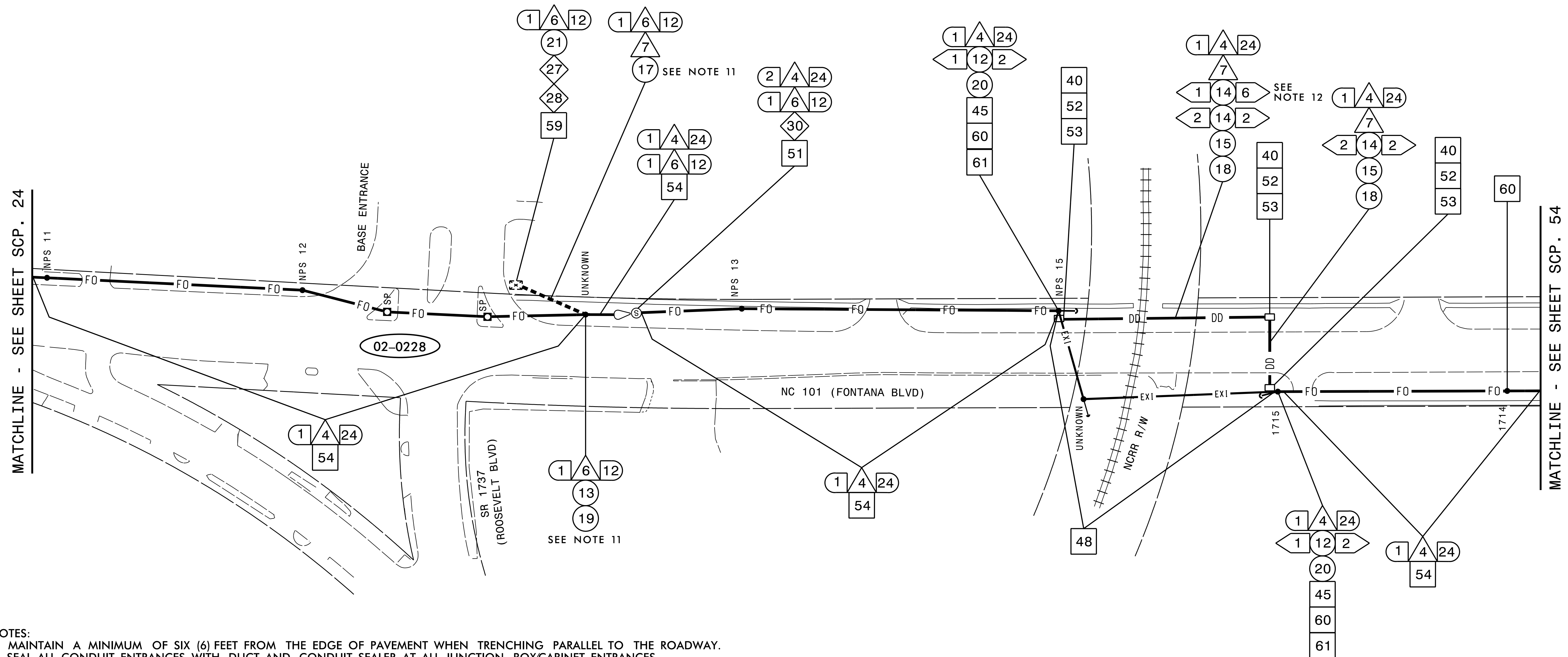
REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Natasha R. Simmons 12/7/2018

Signature: _____ Date: _____

CADD Filename: R1015 scp 51.dgn



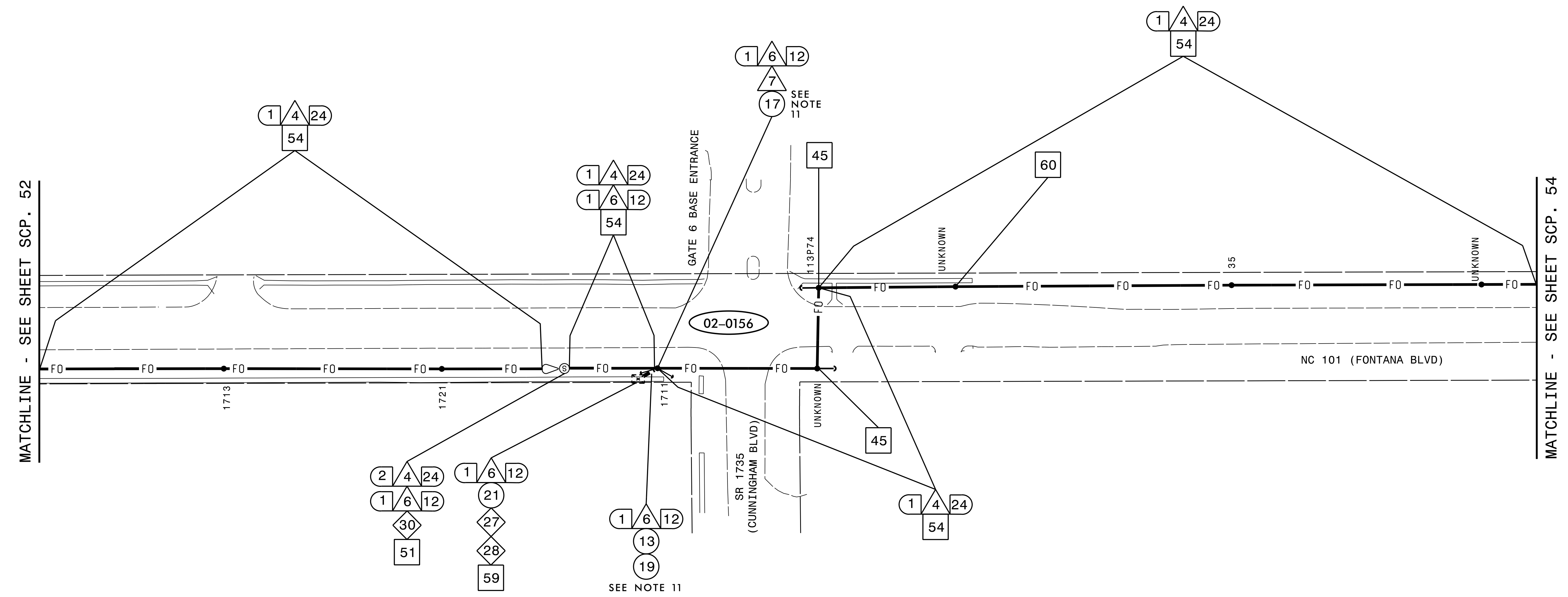
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.
12. INSTALL TWO (2) INCH CONDUITS IN SIX (6) INCH CONDUIT UNDER RAILROAD TRACKS AT A DEPTH OF FIFTEEN (15) FEET BELOW BASE OF RAIL.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED


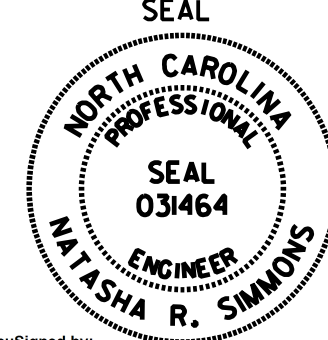
HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	<p>US 70 HAVELOCK BYPASS CABLE ROUTING PLAN</p>		
	Division 02 Craven Co. Havelock PLAN DATE: August 2018 PREPARED BY: N.K. Vlanich	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	
250 N. Greenfield Place, Garner, NC 27529 SCALE 0 50 1"=50'	REVISIONS INIT. DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 FID486F340454 SIGNATURE DATE CADD Filename: R1015 scp. 52.dgn	

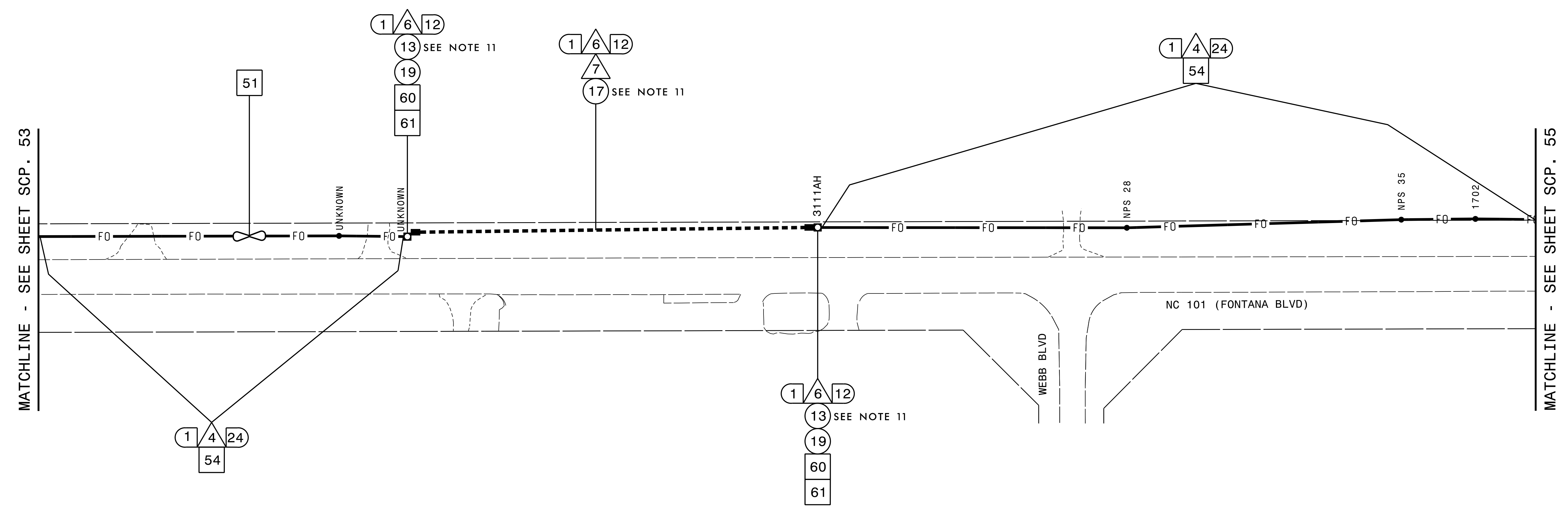


- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 		US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		SEAL  SEAL 031464 NATASHA R. SIMMONS ENGINEER
250 N. Greenfield Place, Garner, NC 27529		Division 02 Craven Co. Havelock		
PLAN DATE: August 2018		REVIEWED BY: T.R. Terrell		DocuSigned by: Natasha R. Simmons 12/7/2018 SEAL 031464 NATASHA R. SIMMONS ENGINEER
PREPARED BY: N.K. Vlanich		REVIEWED BY: N.R. Simmons		
REVISIONS		INIT. DATE		CADD Filename: R1015_scp_53.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

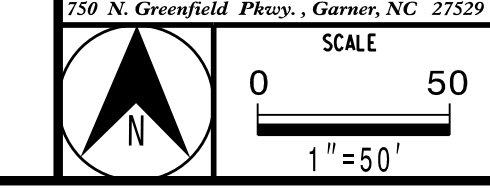


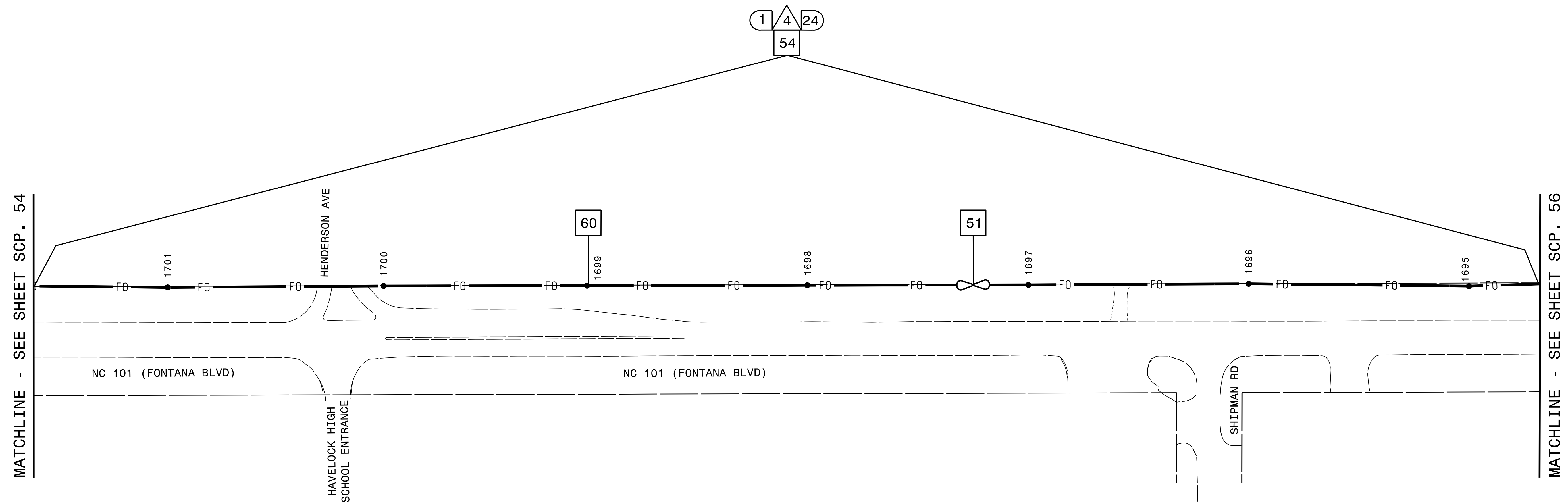
- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
 3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
 4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
 5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
 6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
 8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
 10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.
 11. REMOVE EXISTING FIBER OPTIC CABLE AND PULL IN NEW FIBER OPTIC CABLE.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock	PLAN DATE: August 2018	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons	Notarized by: <i>Notasha R. Simmons</i> 12/7/2018 SEAL SIGNATURE DATE CADD Filename: R1015 scp. 54.dgn





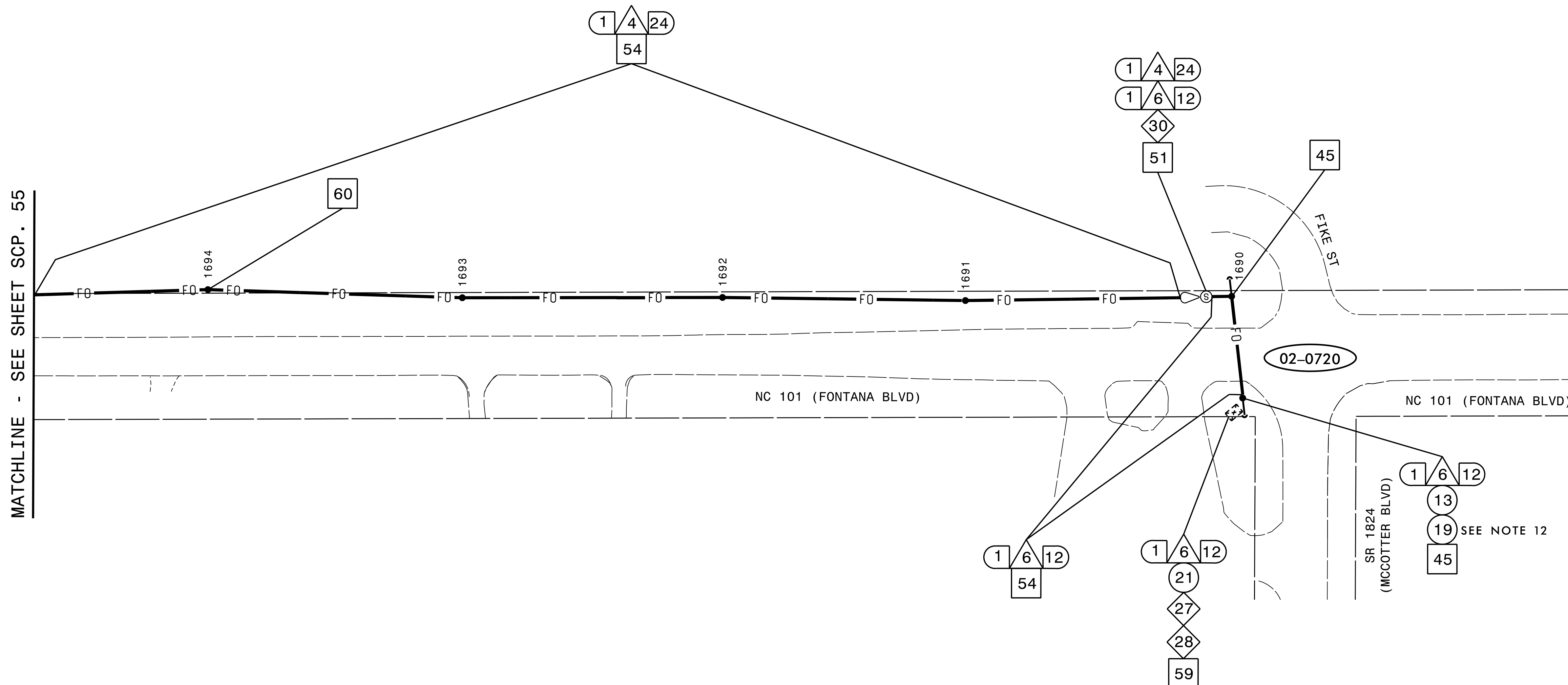
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

	US 70 HAVELOCK BYPASS CABLE ROUTING PLAN		
	Division 02 Craven Co. Havelock		
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons		
REVISIONS	INIT.	DATE	
DocuSigned by: Natasha R. Simmons 12/7/2018			SEAL NATASHA R. SIMMONS
CADD Filename: R1015 scp.55.dgn			



NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
3. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 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 SENIOR SIGNAL SYSTEM OPERATOR 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 FUNCTIONAL.
4. CONTACT DIVISION 2 TRAFFIC ENGINEER, STEVE HAMILTON, AT (252) 439-2816 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS OR DMS.
5. DO NOT INSTALL CCTV POLE ANY CLOSER THAN SIX (6) FEET FROM THE FACE OF GUARDRAIL.
6. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
7. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA OR DMS HAS BEEN CONFIRMED BY THE DIVISION 2 TRAFFIC ENGINEER.
8. INSTALL CONDUITS IN THE SAME TRENCH. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE IN THE SAME JUNCTION BOX.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE MAXIMUM FAULT CURRENT INFORMATION FROM THE POWER COMPANY FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND MAXIMUM FAULT CURRENT ON THE STICKER.
10. AT THE DIRECTION OF THE ENGINEER, PERFORM GRADING AS NEEDED WHERE GUARDRAIL, POLE INSTALLATION AND DMS CONSTRUCTION WORK HAS BEEN PERFORMED.

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



HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

Plans Prepared for:

250 N. Greenfield Place, Garner, NC 27529

US 70 HAVELOCK BYPASS CABLE ROUTING PLAN	
Division 02	Craven Co. Havelock
PLAN DATE: August 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: N.K. Vlanich	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL

DocuSigned by:
Notasha R. Simmons 12/7/2018
FEDABDF3AD4454
SIGNATURE DATE
CADD Filename: R1015 scp.56.dgn

