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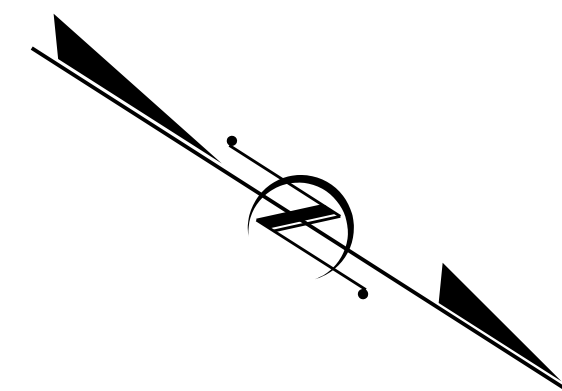
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

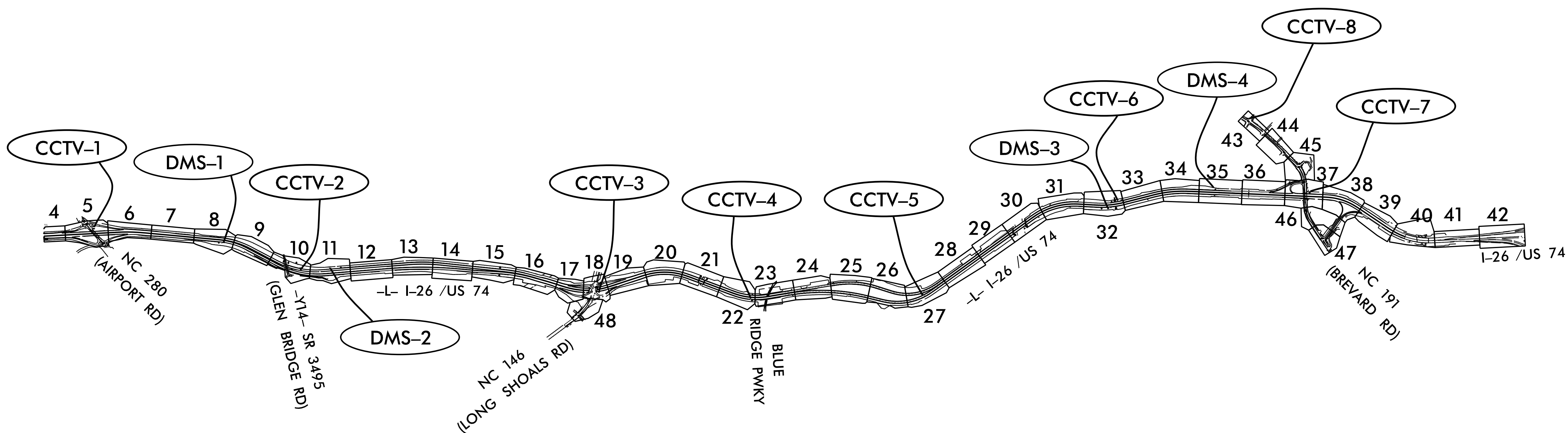
BUNCOMBE COUNTY

LOCATION: I-26 FROM EAST OF NC 280 (AIRPORT ROAD)
WEST OF NC 191 (BREVARD ROAD)

TYPE OF WORK: FIBER, CCTV CAMERA AND DYNAMIC MESSAGE SIGN
INSTALLATIONS



TIP PROJECT: I-4700



CONTRACT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

2018 STANDARD SPECIFICATIONS	
PROJECT LENGTH PROJECT LENGTH = 9.4 MILES	
LETTING DATE: MAY 2019	
INDEX OF SHEETS	
ITS-1	TITLE SHEET
ITS-2	NETWORK BLOCK DIAGRAM
ITS-3	CONSTRUCTION NOTES AND LEGEND
ITS-4-48	COMMUNICATION ROUTING PLANS
ITS-49-52	DMS ELEVATIONS
ITS-53-71	SPLICE DETAILS
ITS-72-75	TYPICAL DETAILS

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT
AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE	STD. NO.	TITLE
862.01	GUARDRAIL PLACEMENT	1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
862.02	GUARDRAIL INSTALLATION	1180.01	SKINNY - DRUM
862.03	STRUCTURE ANCHOR UNIT	1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION
862.04	ANCHORING END OF GUARDRAIL		SPACING
865.01	CABLE GUIDERAIL	1261.02	GUARDRAIL AND BARRIER DELINEATORS -TYPES AND
1101.01	WORK ZONE WARNING SIGNS		MOUNTING
1101.02	TEMPORARY LANE CLOSURES	1262.01	GUARDRAIL END DELINEATION
1101.04	TEMPORARY SHOULDER CLOSURES	1700.01	ELECTRICAL SERVICE OPTIONS
1101.01	TRAFFIC CONTROL DESIGN TABLES	1700.02	ELECTRICAL SERVICE GROUNDING
1110.02	PORTABLE WORK ZONE SIGNS	1715.01	UNDERGROUND CONDUIT-TRENCHING
1115.01	FLASHING ARROW BOARDS	1716.01	JUNCTION BOXES
1130.01	DRUMS	1720.01	WOOD POLES
1135.01	CONES	1721.01	GUY ASSEMBLY
1150.01	FLAGGING DEVICES	1751.02	CONTROLLER AND CABINETS

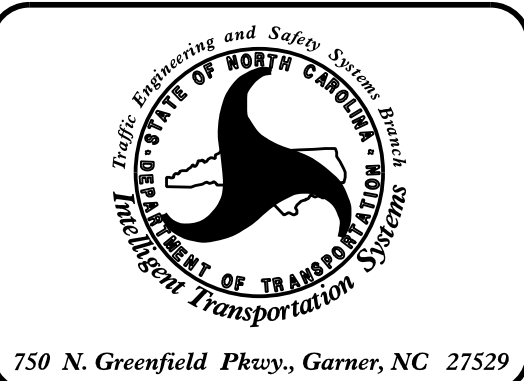
NCDOT CONTACTS:

ANNA G. HENDERSON, PE	DIVISION 13 TRAFFIC ENGINEER
SCOTT M. COLLIER, PE	REGIONAL TRAFFIC SAFETY ENGINEER
GREGG GREEN	SIGNALS COMMUNICATIONS PROJECT ENGINEER

PLANS PREPARED BY: **HNTB**

HNTB CONTACTS:

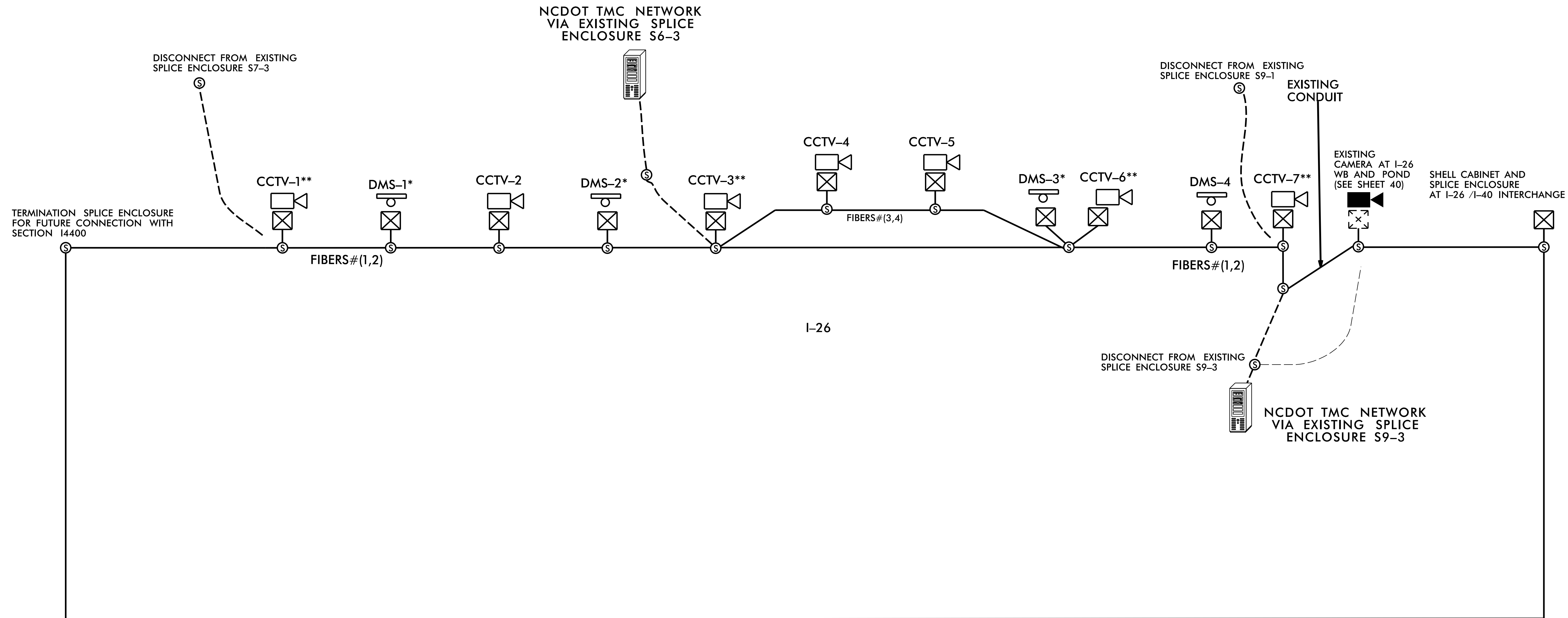
N.R. SIMMONS, PE, PTOE - PROJECT MANAGER
D.L. JONES, PE - SENIOR ITS PROJECT MANAGER
R. NUNE, PE - SENIOR ITS DESIGN ENGINEER
A. ALI - ITS ENGINEER I
A.H. THORNBURG, PE - DESIGN ENGINEER III
T.R. TERRELL - SENIOR DESIGN TECHNICIAN



SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
048072
ENGINEER
RAKESH NUNE

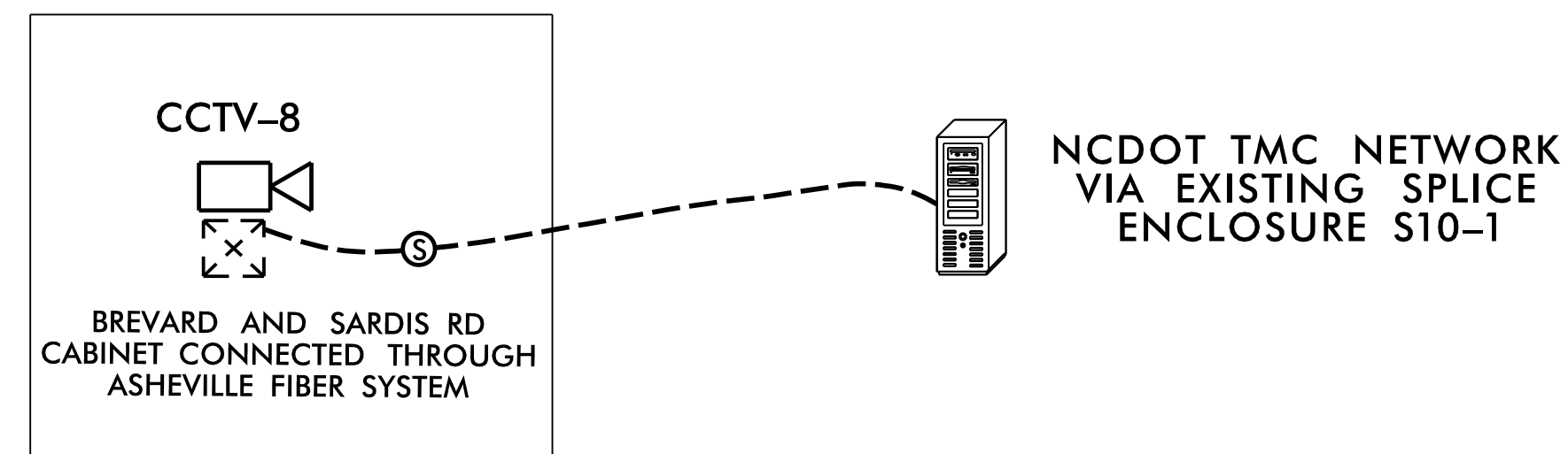
Designed by: *Rakesh Nune* DATE: 2/28/2019



FIBERS#(5,6) AND FIBERS#(7,8)

NOTE: FIBERS #3,4 AND FIBERS# 7,8 ARE CONNECTED TO ONLY SOLAR PANEL POWERED DEVICES AND SPLICED THROUGH AT REST OF THE CABINETS

*PROPOSED DMS IS REPLACING EXISTING DMS AT THIS LOCATION.
 **PROPOSED CCTV IS REPLACING EXISTING CCTV AT THIS LOCATION.



LEGEND

- EXISTING ITS EQUIPMENT CABINET
- PROPOSED ITS EQUIPMENT CABINET
- SPLICE ENCLOSURE
- CCTV (EXISTING)
- CCTV (PROPOSED)
- DMS PEDESTAL MOUNTED WITH CABINET
- CELLULAR MODEM IN CABINET
- CONNECTION TO EXISTING NETWORK
- NETWORK CONNECTION BY THIRD PARTY

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NOTES:

1. THIS BLOCK DIAGRAM IS AN APPROXIMATE REPRESENTATION OF CONNECTIONS. SEE SPLICE DIAGRAMS SHEETS FOR DETAILED CONNECTIONS.
2. CONTACT NCDOT FOR NETWORK CONFIGURATION WHICH CONSISTS OF BUT IS 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.
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 NC License No: C-1554
 (919) 546-8997

Plans Prepared for: 	I-4700 NETWORK BLOCK DIAGRAM		SEAL
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE NONE	REVISIONS	INIT. DATE	Date Signed by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD File name: I4700 ITS-02.dgn

- 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 CAT 5e CCTV 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 OR INTERCONNECT CENTER
- 33 REMOVE EXISTING SPlice CABINET
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY

- 37 REMOVE EXISTING DMS, CABINET AND STRUCTURE
- 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 CELL MODEM
- 43 REMOVE EXISTING METAL POLE AND FOUNDATION
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS CABLE
- 49 EXISTING SIGNAL CABINET (HUB CONNECTION)
- 50 CONDUITS INSTALLED IN BRIDGE STRUCTURE (SEE ROADWAY PLANS)
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKERS
- 53 STORE 30 FEET OF COMMUNICATIONS CABLE (EACH CABLE), EXCEPT AS NOTED ON PLANS
- 54 REMOVE EXISTING CABINET
- 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, PEDESTAL STRUCTURE, ACCESS LADDER AND DMS FOUNDATION
- 63 INSTALL POLE MOUNTED CABINET
- 64 INSTALL NEW EQUIPMENT CABINET DISCONNECT
- 65 INSTALL GROUND MOUNTED SHELL CABINET
- 66 INTERCEPT EXISTING JUNCTION BOX
- 67 INSTALL CCTV CAMERA EXTENSION POLE
- 68 INSTALL SOLAR PANEL ASSEMBLY
- 69 REMOVE WOOD POLE
- 70 INSTALL WOOD POLE
- 71 REMOVE EXISTING CCTV CAMERA
- 72 INSTALL STEP-UP /STEP-DOWN TRANSFORMER

LEGEND

	FD	NEW FIBER OPTIC COMMUNICATIONS CABLE
	EXI	EXISTING COMMUNICATIONS CABLE
	REM	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
		NEW CONDUIT
		EXISTING CONDUIT
	DD	NEW DIRECTIONAL DRILLED CONDUIT
		EXISTING GUARDRAIL
		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 HEAVY DUTY JUNCTION BOX WITH SPlice ENCLOSURE
		EXISTING SPECIAL OVERSIZED HEAVY DUTY JUNCTION BOX WITH NEW SPlice ENCLOSURE
		NEW WOOD POLE
		EXISTING WOOD POLE
		NEW AERIAL SPlice
		EXISTING AERIAL SPlice
		NEW SPlice ENCLOSURE
		EXISTING SPlice ENCLOSURE
		NEW METAL POLE
		EXISTING METAL POLE
		STEP-UP STEP-DOWN TRANSFORMER
		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 ITS EQUIPMENT CABINET
		EXISTING ITS EQUIPMENT CABINET
		NEW SOLAR PANEL ASSEMBLY
		NEW ELECTRICAL SERVICE
		EXISTING ELECTRICAL SERVICE
		SIGNAL POLE
		EXISTING ANTENNA
	XXX-#	CCTV/DMS NUMBER
	XX-XXXX	SIGNAL INVENTORY NUMBER

ATTACHMENT POINT:

DISTANCE ABOVE INCHES
REFERENCE POINT

REFERENCE POINT
DISTANCE BELOW INCHES

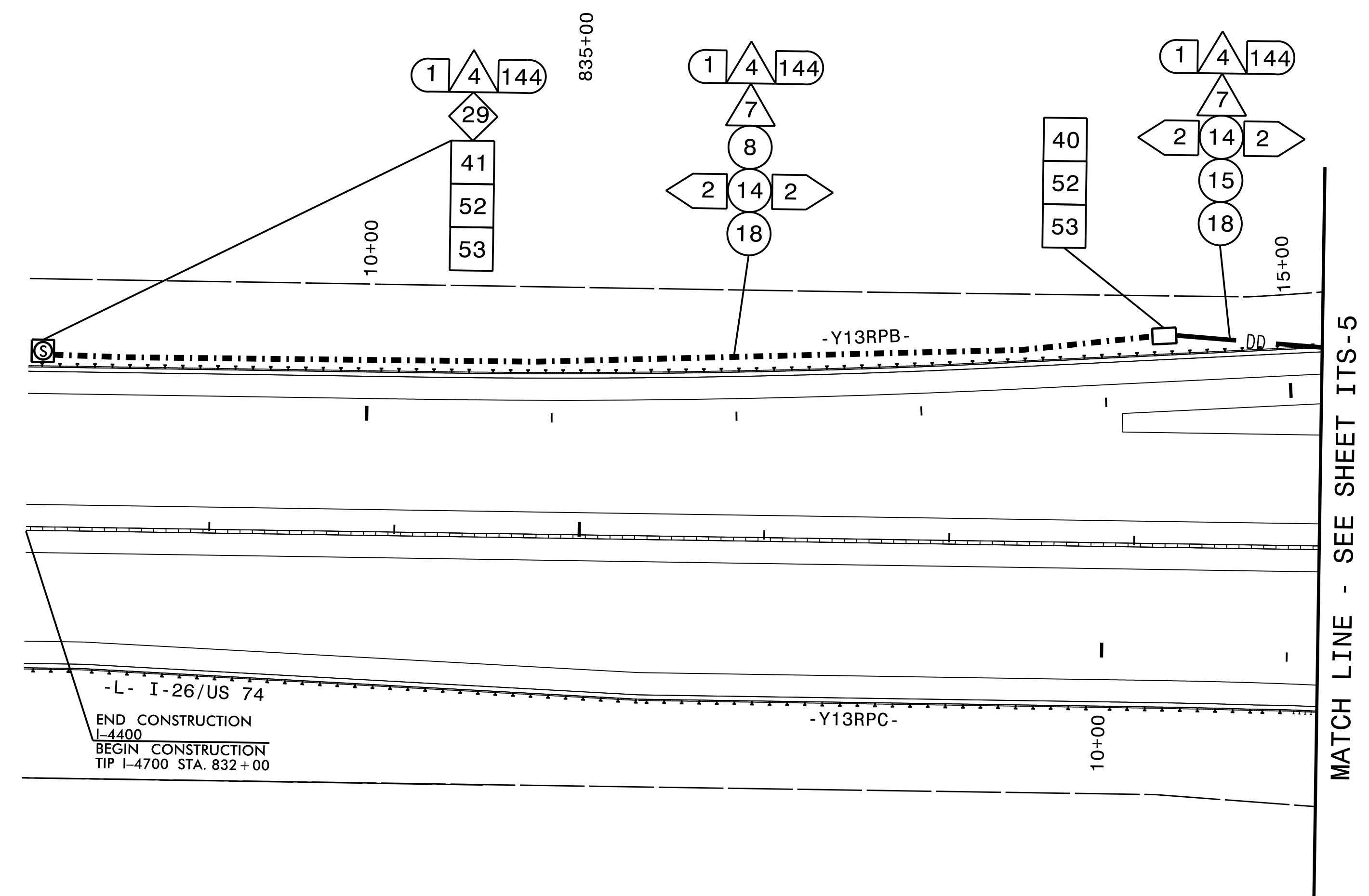
CONSTRUCTION NOTE SYMBOLOGY KEY

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

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Plans Prepared for: 	I-4700 CONSTRUCTION NOTES AND LEGEND Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	SEAL Rakesh Nune 2/28/2019 SIGNATURE DATE
SCALE NONE	REVISIONS _____ INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 BE01A15A037440 SIGNATURE DATE CADD File name: I-4700_ITS-03.dgn



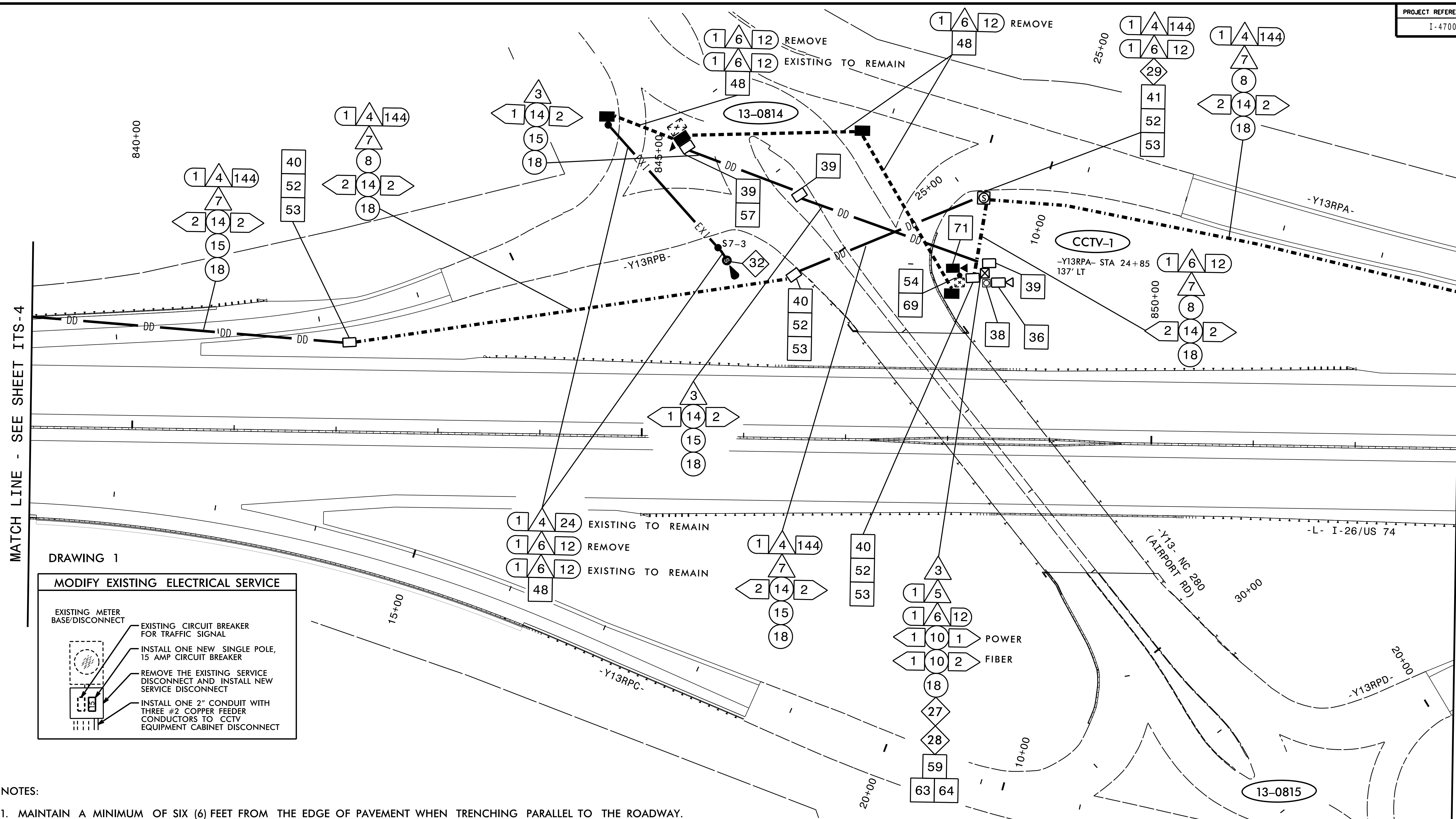
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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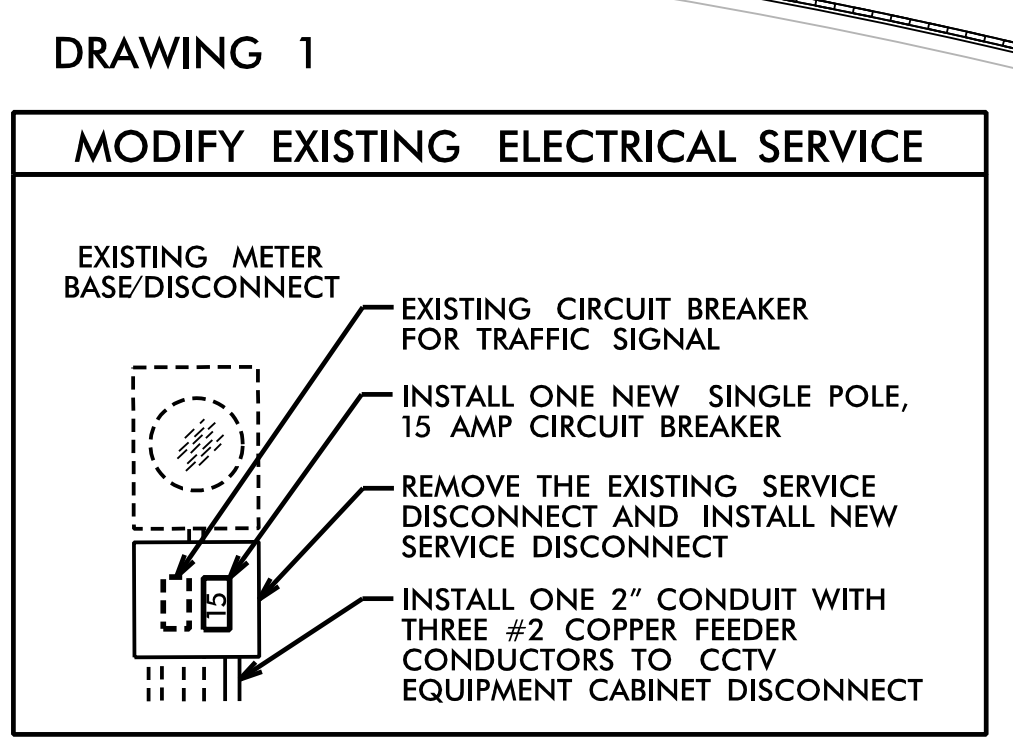
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(919) 546-8997

	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1" = 50'	REVISIONS INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD File name: I-4700 ITS-4.dgn

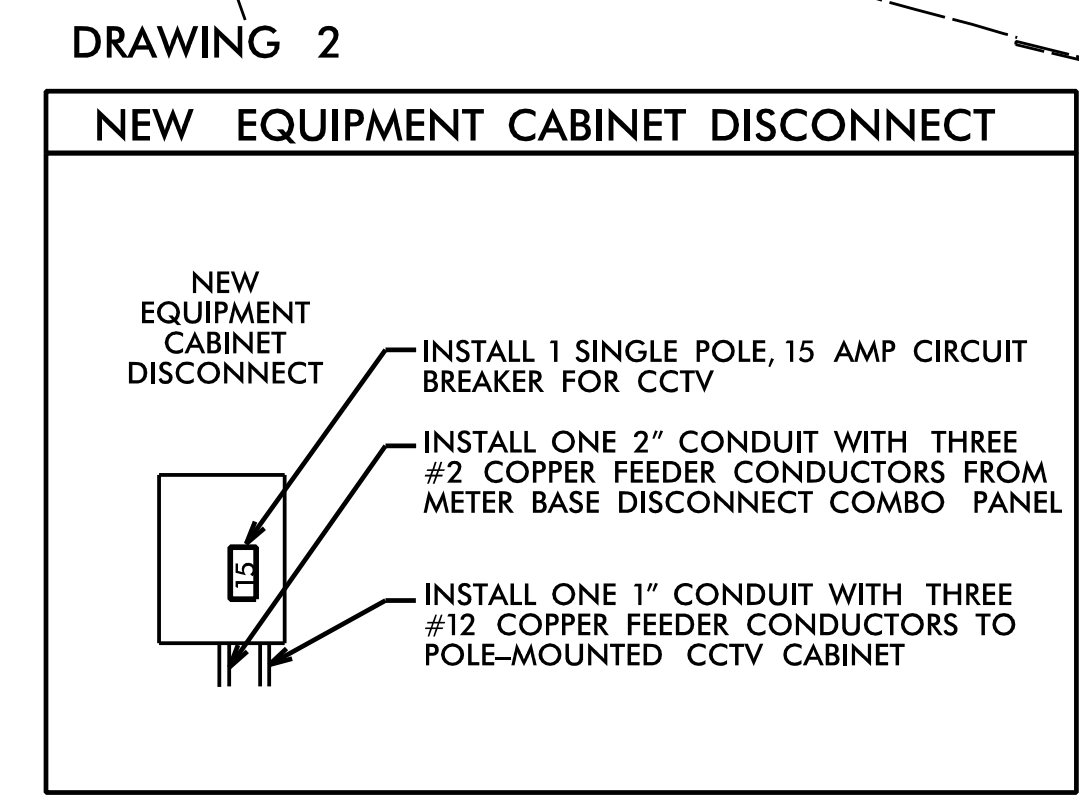


MATCH LINE - SEE SHEET ITS-4

MATCH LINE - SEE SHEET ITS-6



- NOTES:**
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
 3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
 4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
 5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
 6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
 7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
 8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
 9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
 10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.
 12. SIX (6) WEEKS PRIOR TO BEGINNING WORK ON THE DEVICES, CONTACT THE DIVISION 13 DEPUTY TRAFFIC ENGINEER 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 DEPUTY TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTION PROPERLY. WORK IS NOT COMPLETE UNTIL THE SYSTEM IS BACK UP AND FUNCTIONAL.

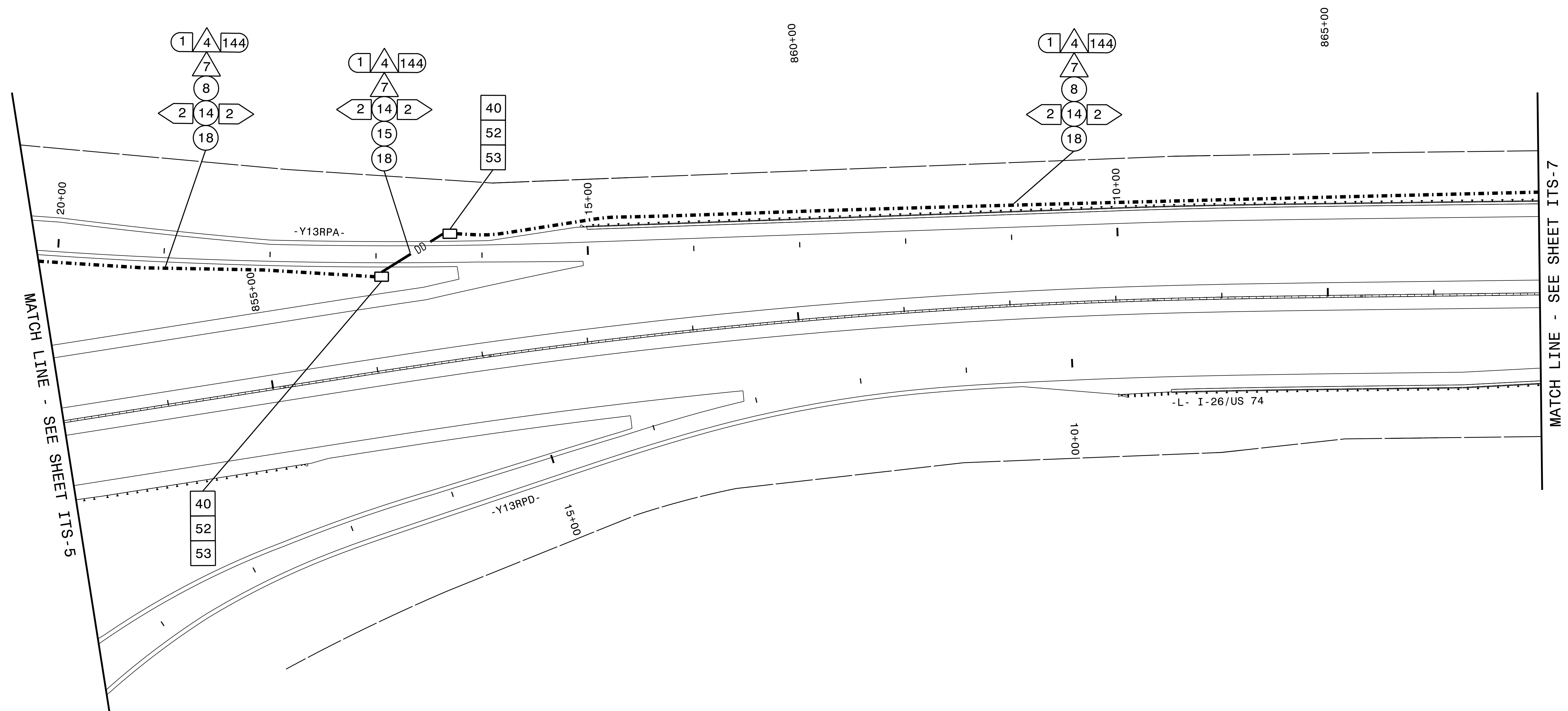


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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
259 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1"=50'	REVISIONS _____ INIT. DATE	Date Signed by: <i>Rakesh Nune</i> 2/28/2019 _____ SIGNATURE DATE CADD File Name: I-4700 ITS-05.dgn



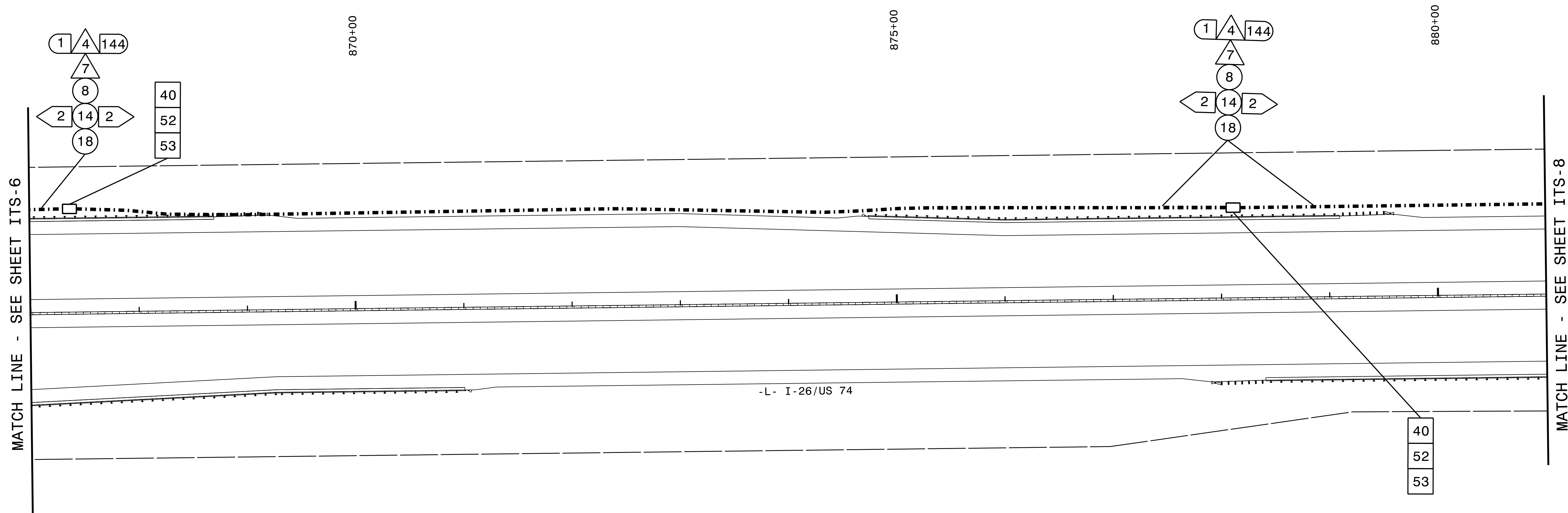
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6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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	I-4700 CABLE ROUTING PLAN								
	Division 13	Buncombe		Asheville					
<small>Plans Prepared for:</small> 	PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell	<small>DocuSigned by:</small> 						
<small>250 N. Greenfield Place - Garner, NC 27529</small>	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons		2/28/2019					
	<small>SCALE</small> 	<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				<small>SIGNATURE</small>
REVISIONS	INIT.	DATE							
<small>1"=50'</small>		<small>CADD Filename: I-4700 ITS-06.dgn</small>							



NOTES:

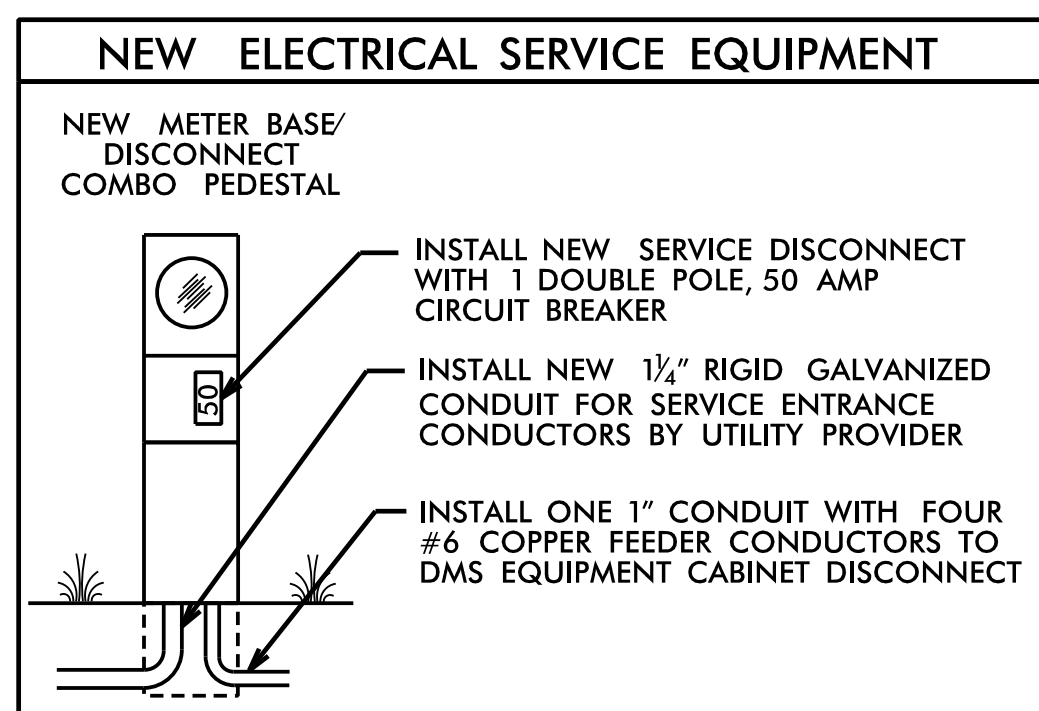
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
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4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
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Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
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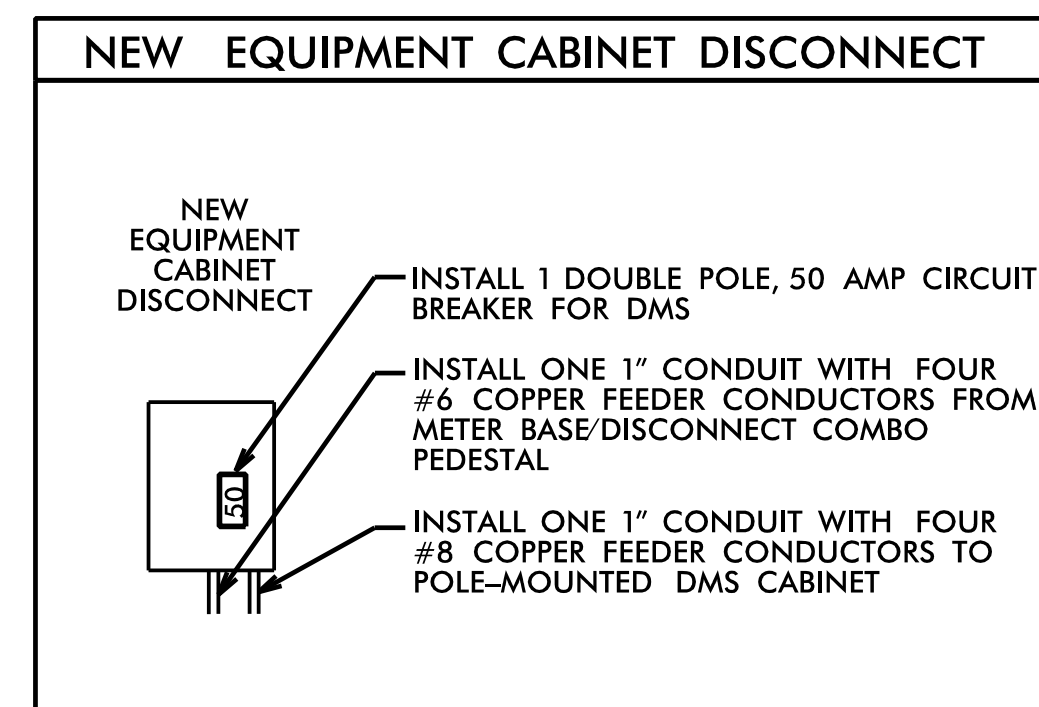
DRAWING 1



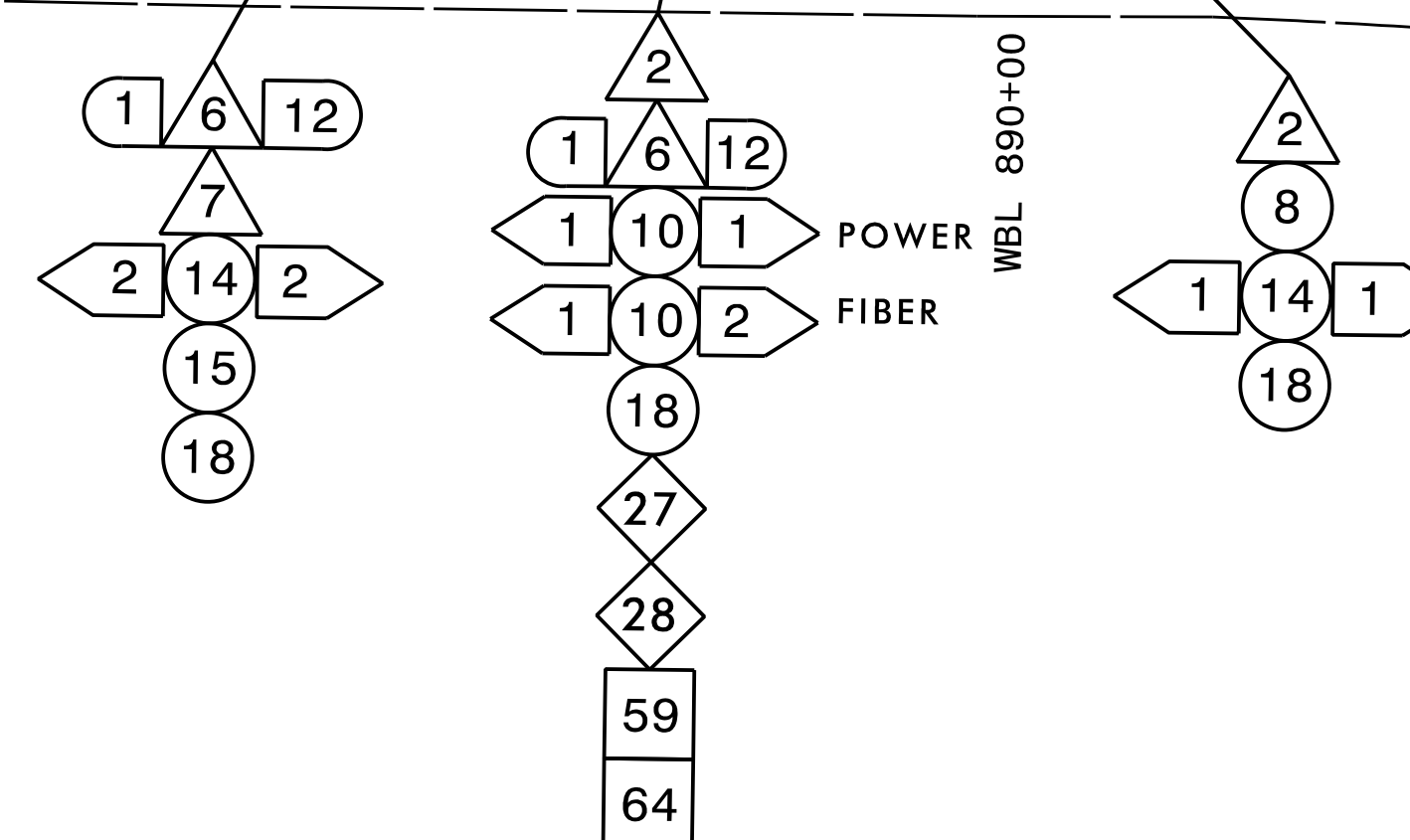
MATCH LINE - SEE SHEET ITS-7



DRAWING 2



WBL 885+00



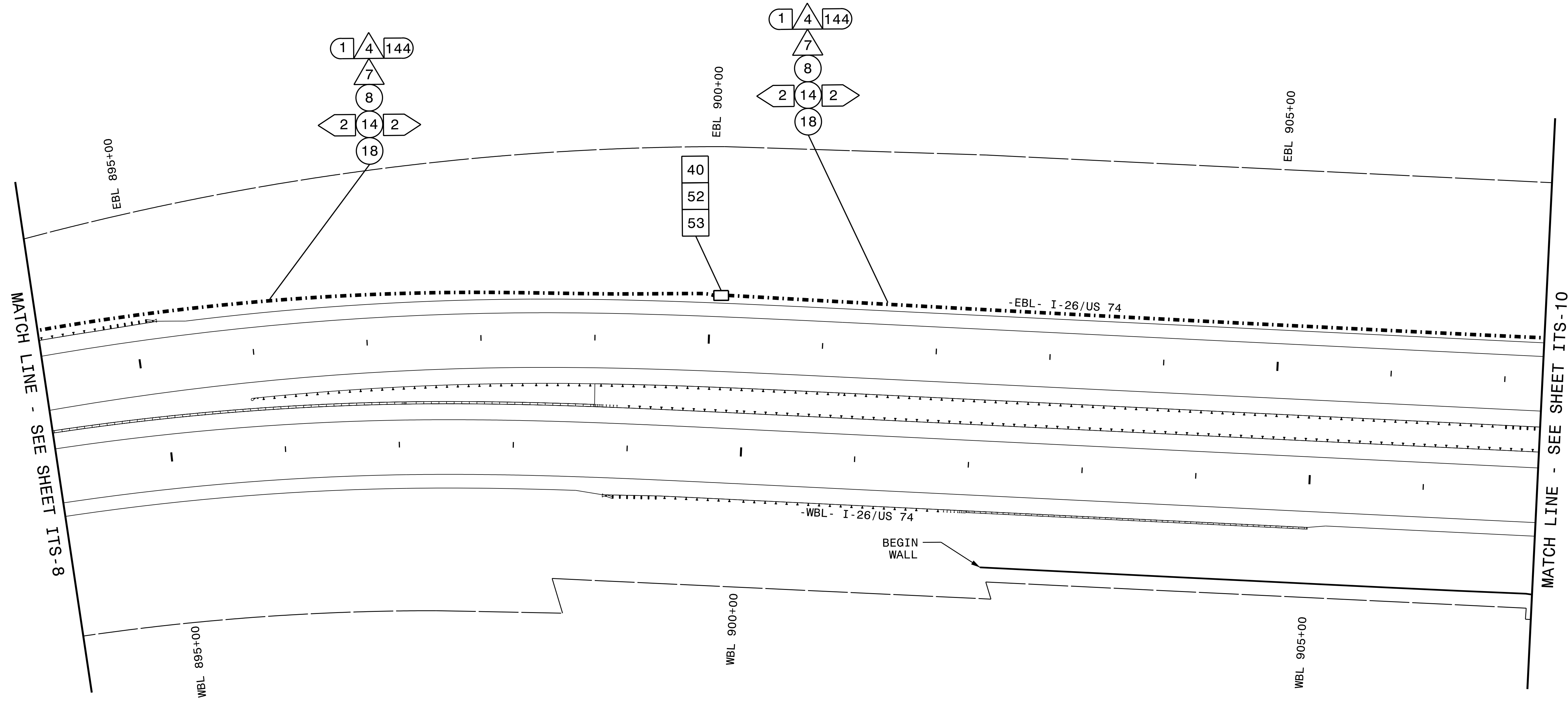
MATCH LINE - SEE SHEET ITS-9

NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.
12. SIX (6) WEEKS PRIOR TO BEGINNING WORK ON THE DEVICES, CONTACT THE DIVISION 13 DEPUTY TRAFFIC ENGINEER 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 DEPUTY TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTION PROPERLY. WORK IS NOT COMPLETE UNTIL THE SYSTEM IS BACK UP AND FUNCTIONAL.

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<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>Plans Prepared for:</p> <p>Division 13 Buncombe Asheville</p>							
	<p>I-4700 CABLE ROUTING PLAN</p> <p>PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons</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: Rakesh Nune 2/28/2019</p> <p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE</p> <p>SIGNATURE DATE</p> <p>CADD File name: I-4700 ITS-08.dgn</p>
REVISIONS	INIT.	DATE						



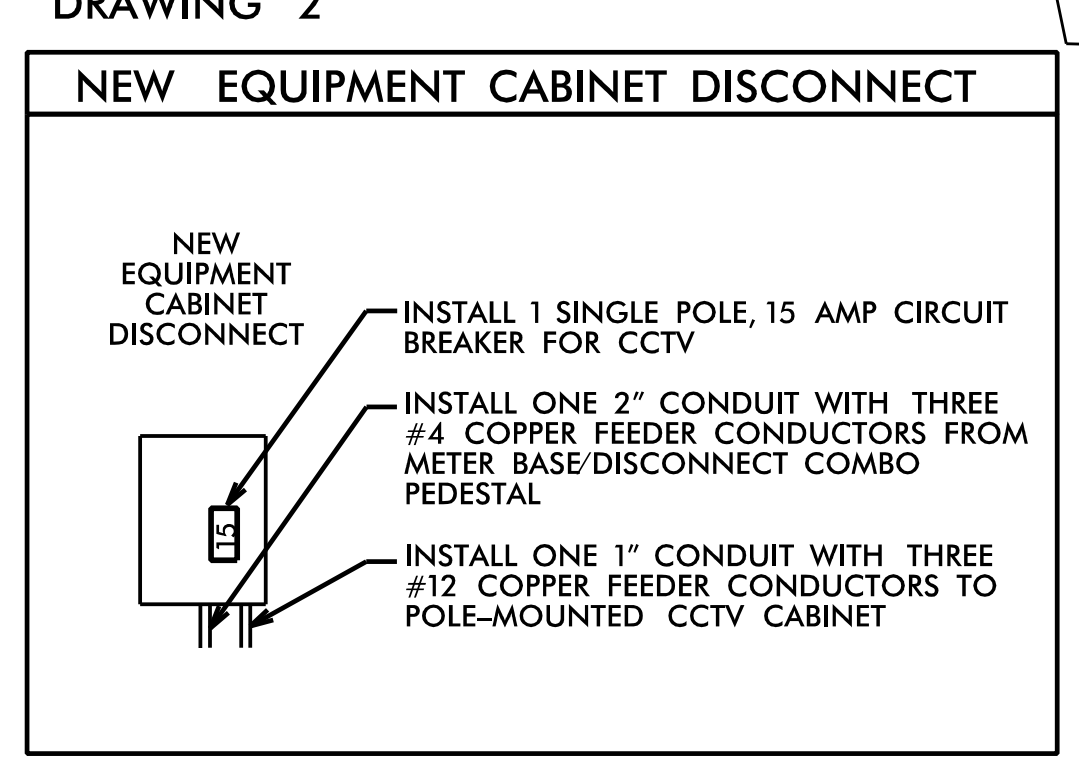
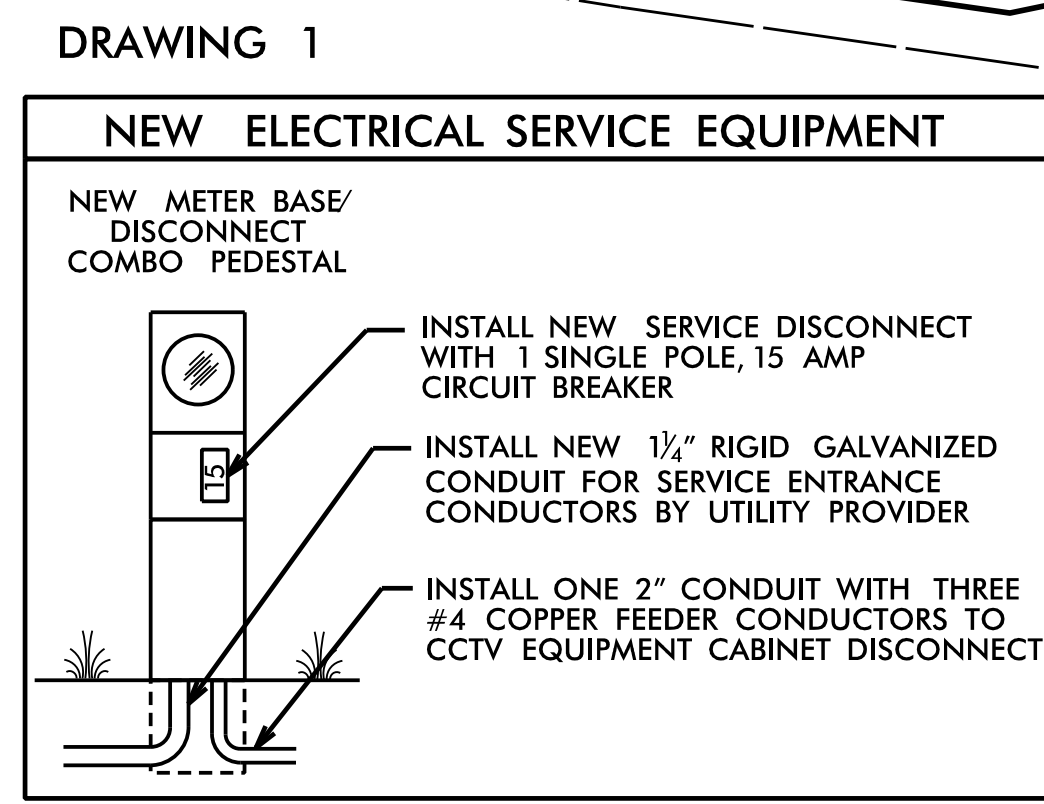
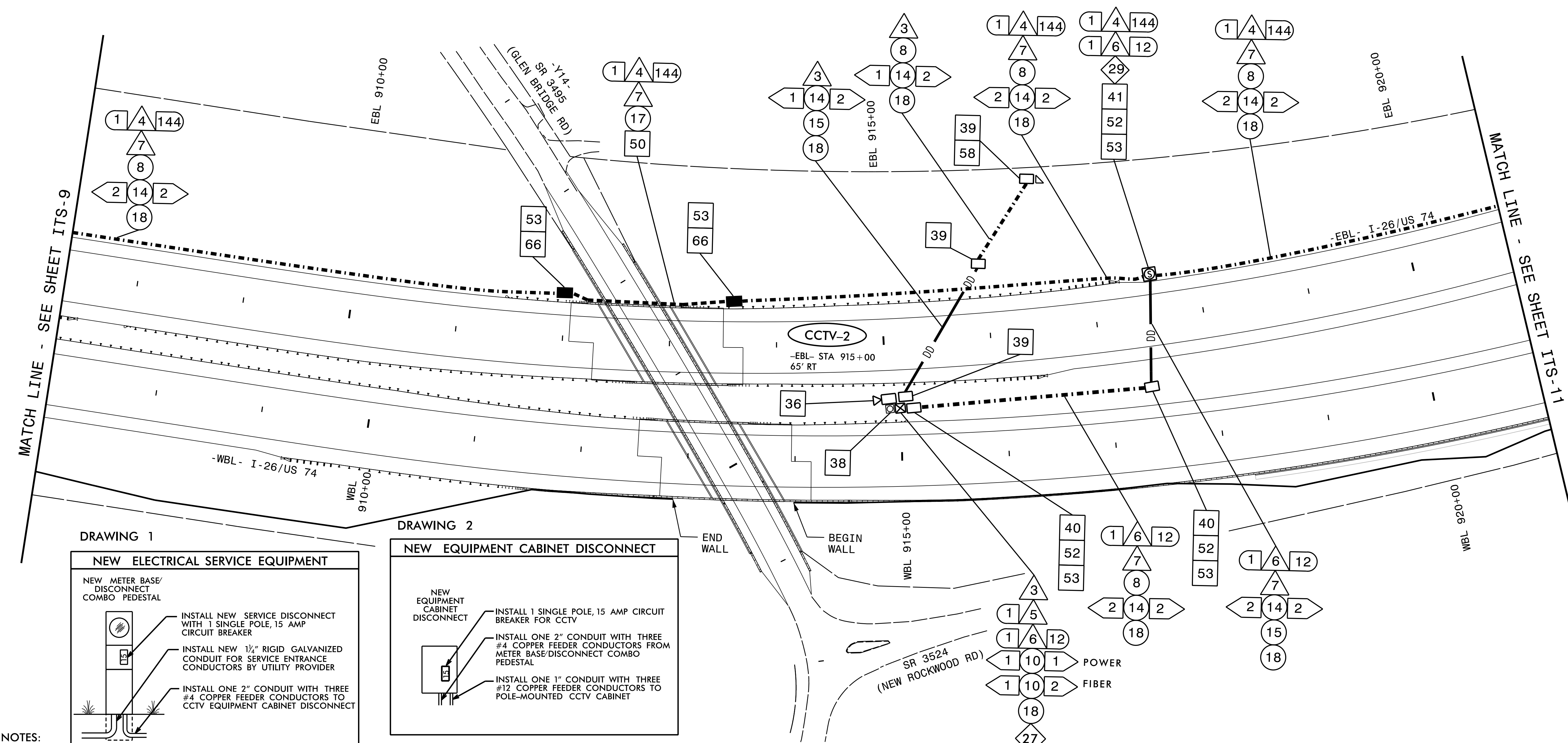
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6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
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9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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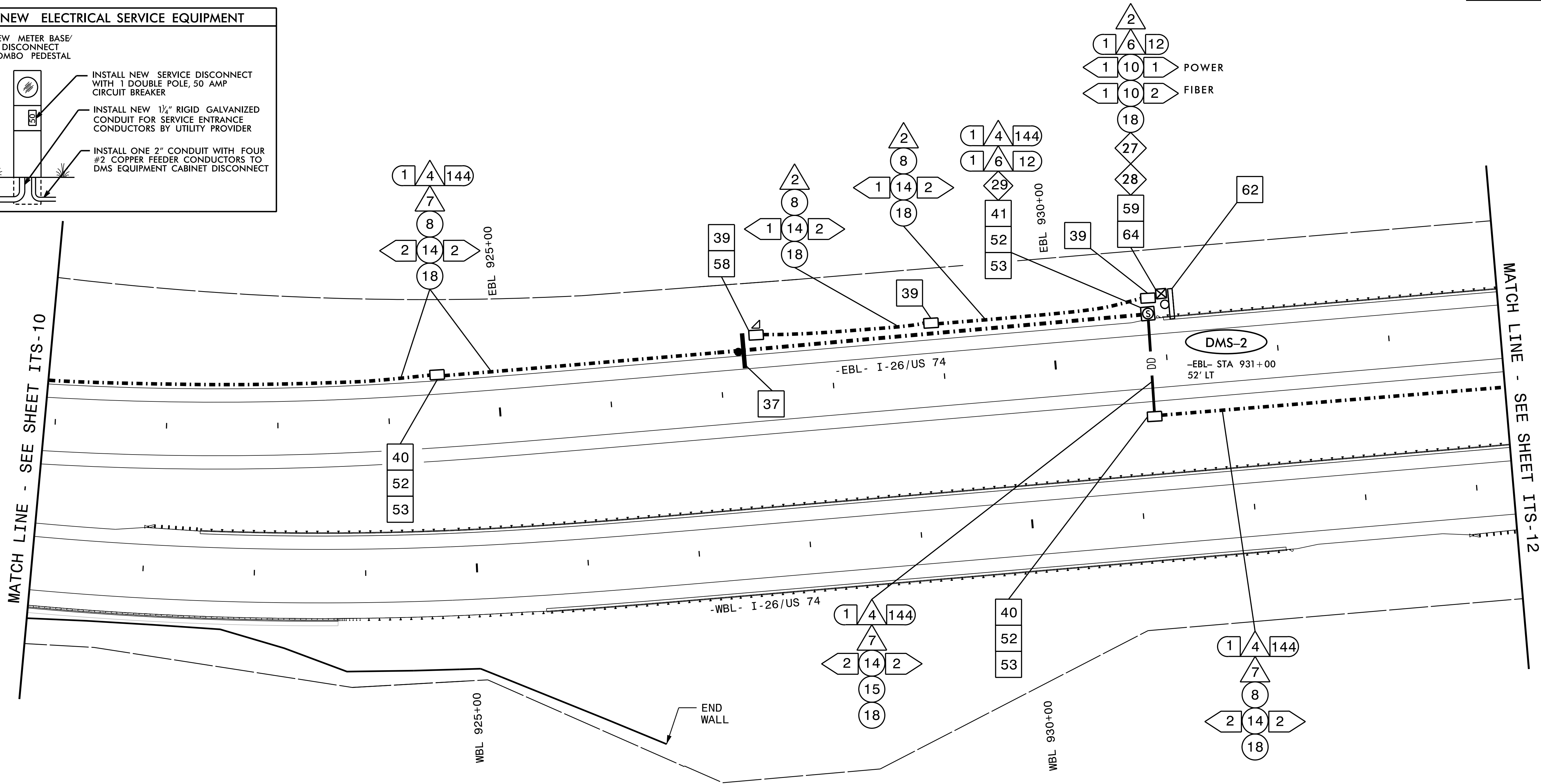
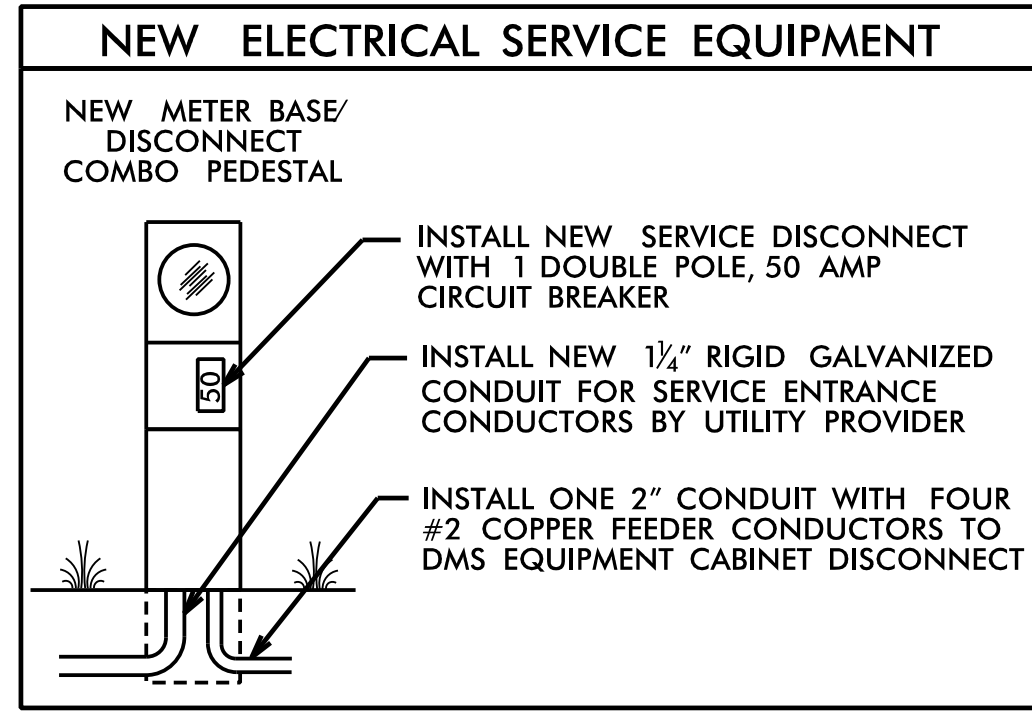
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 <small>Plans Prepared for:</small> <small>259 N. Greenfield Place, Garner, NC 27529</small>	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE _____ _____ _____	

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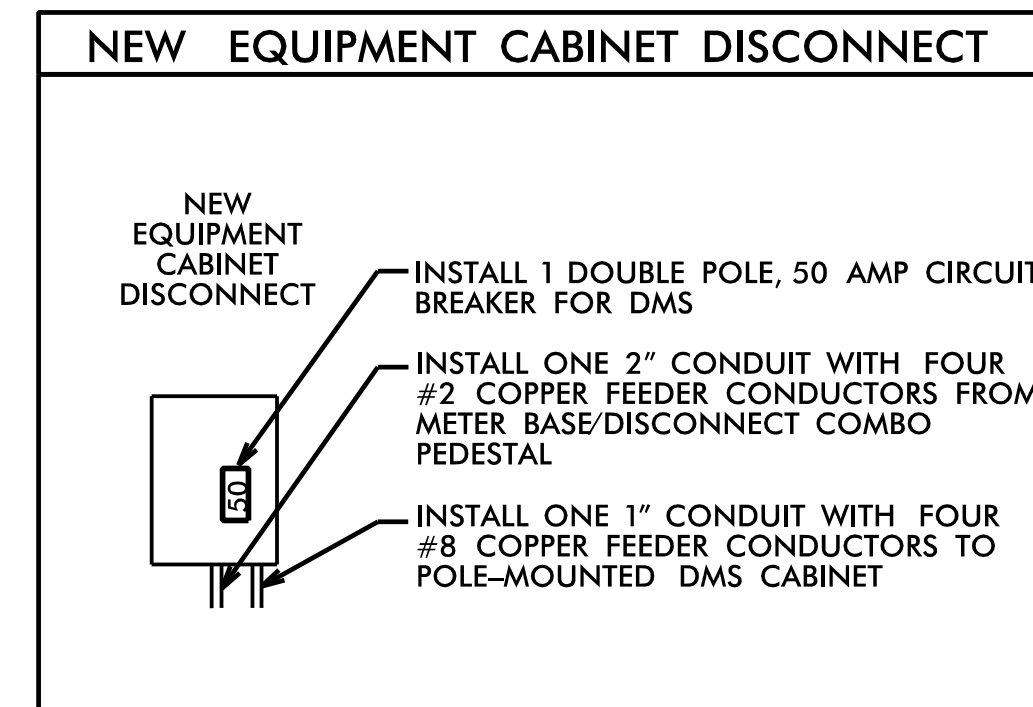
DRAWING 1



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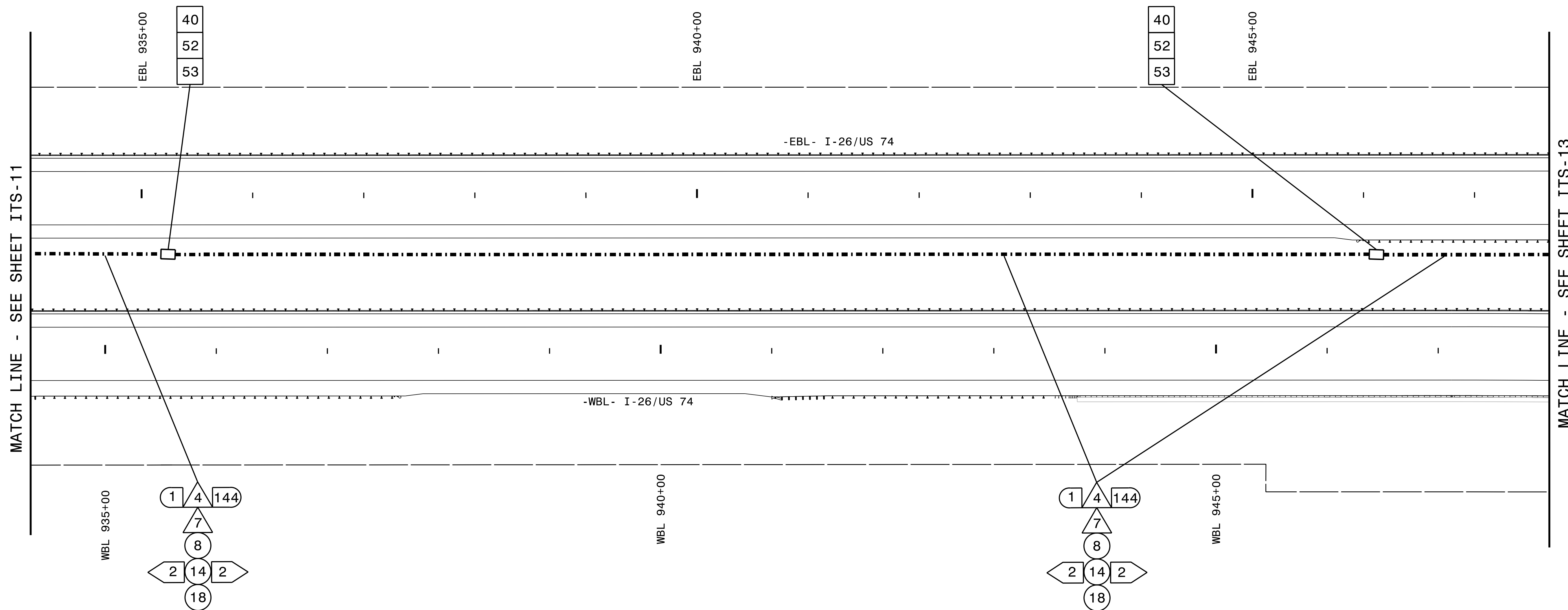
DRAWING 2



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	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	Date Signed: <u>Rakesh Nune</u> 2/28/2019 Signature Date CADD Filename: I-4700 ITS-11.dgn



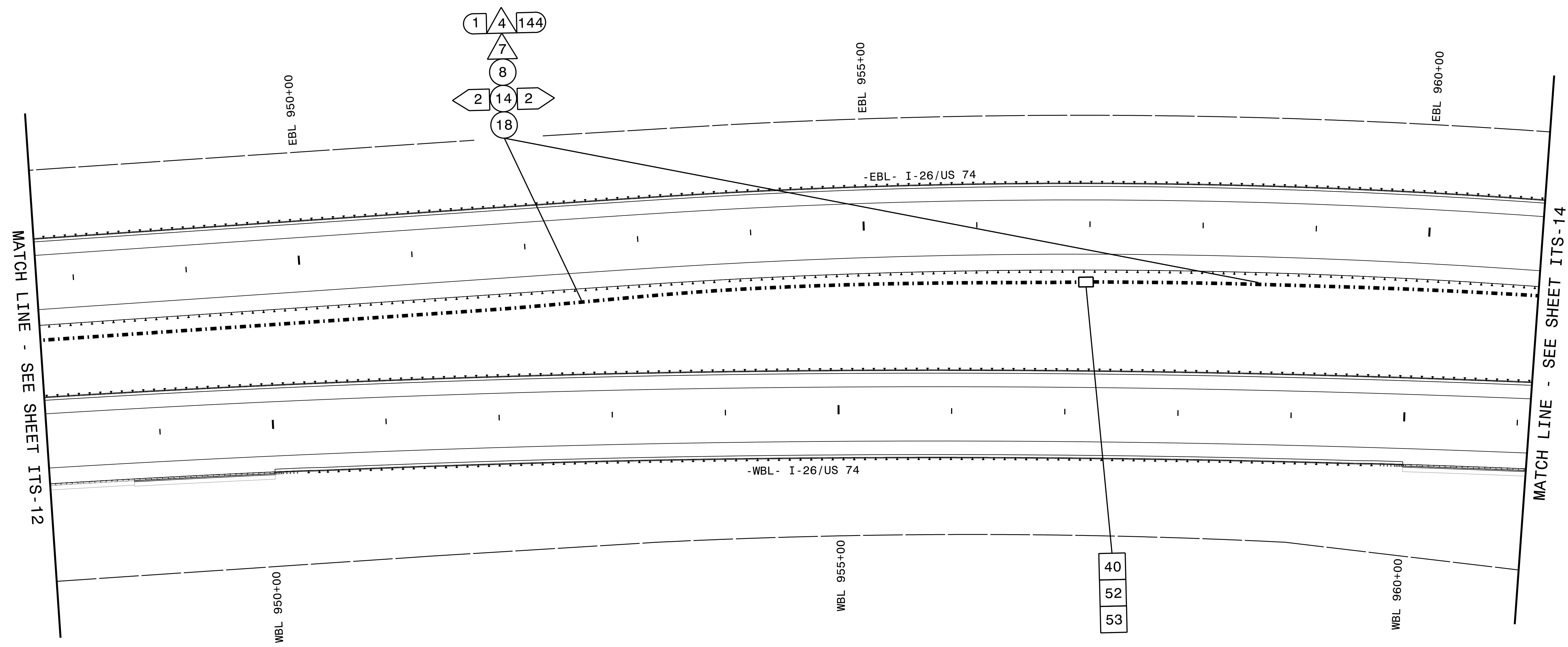
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259 N. Greenfield Place, Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed: 2/28/2019 Signature: Rakesh Nune
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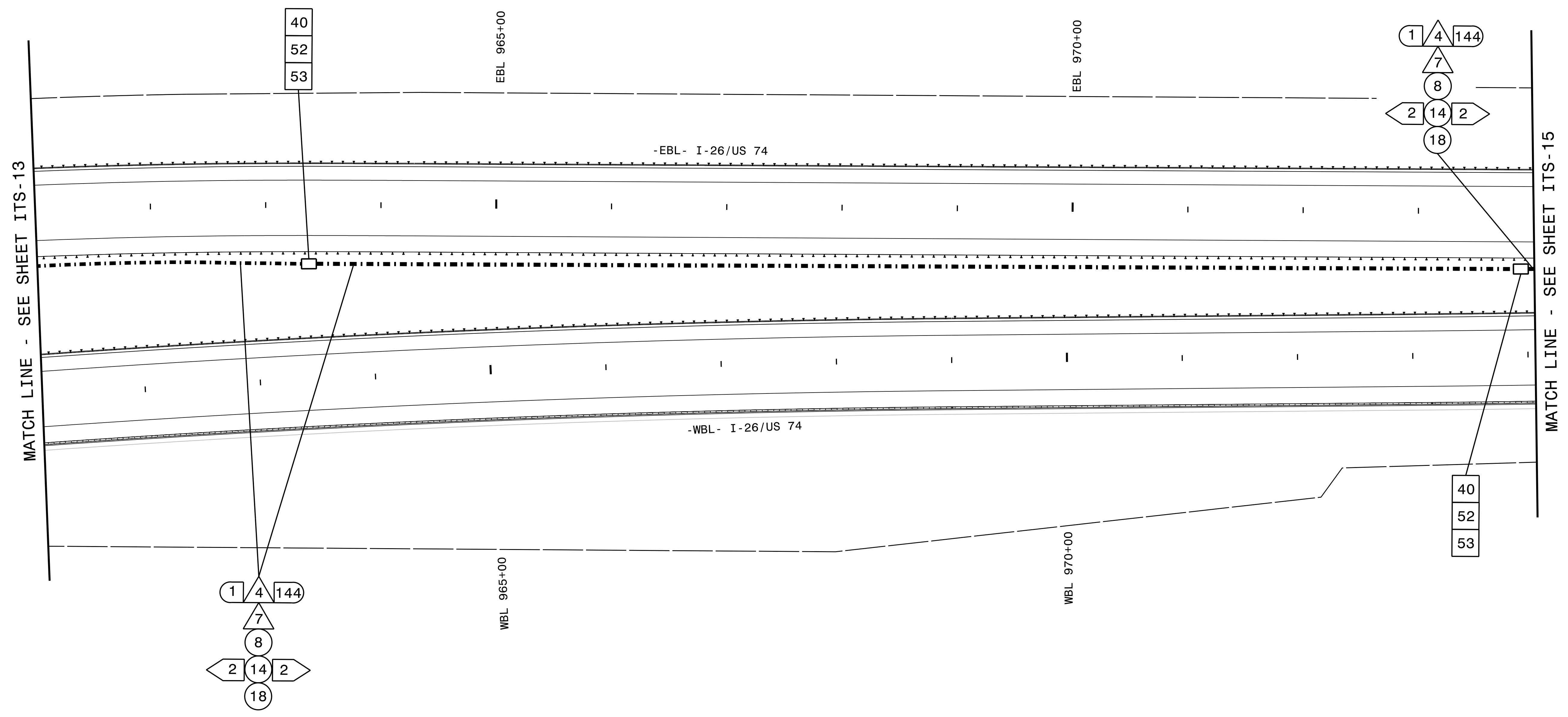
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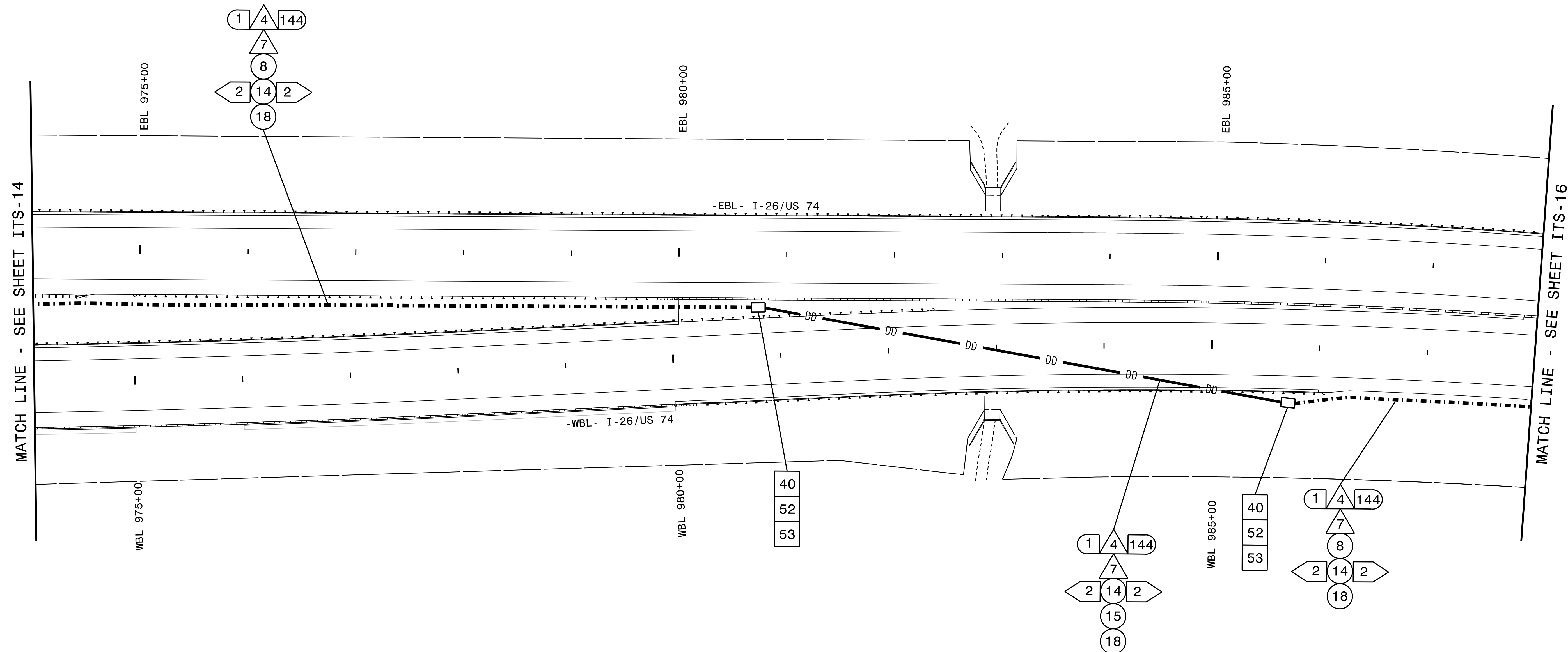
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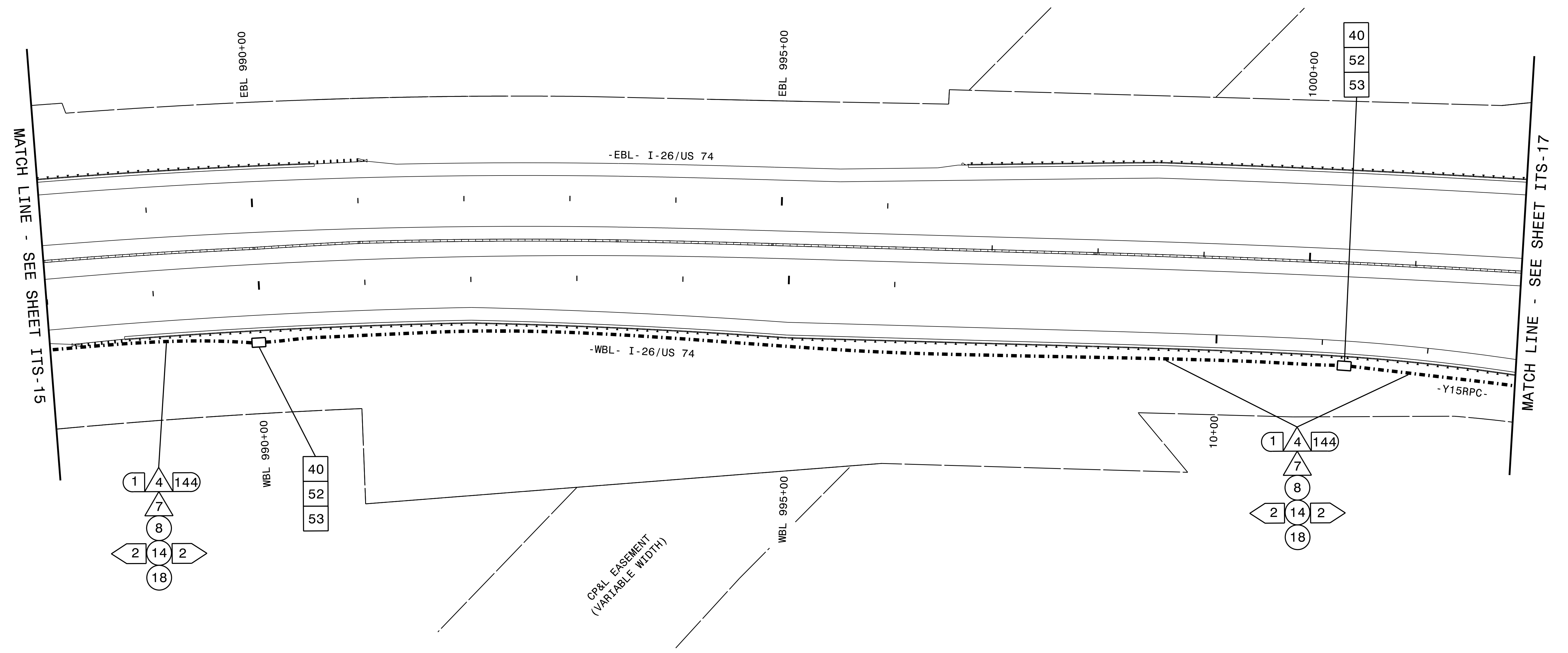
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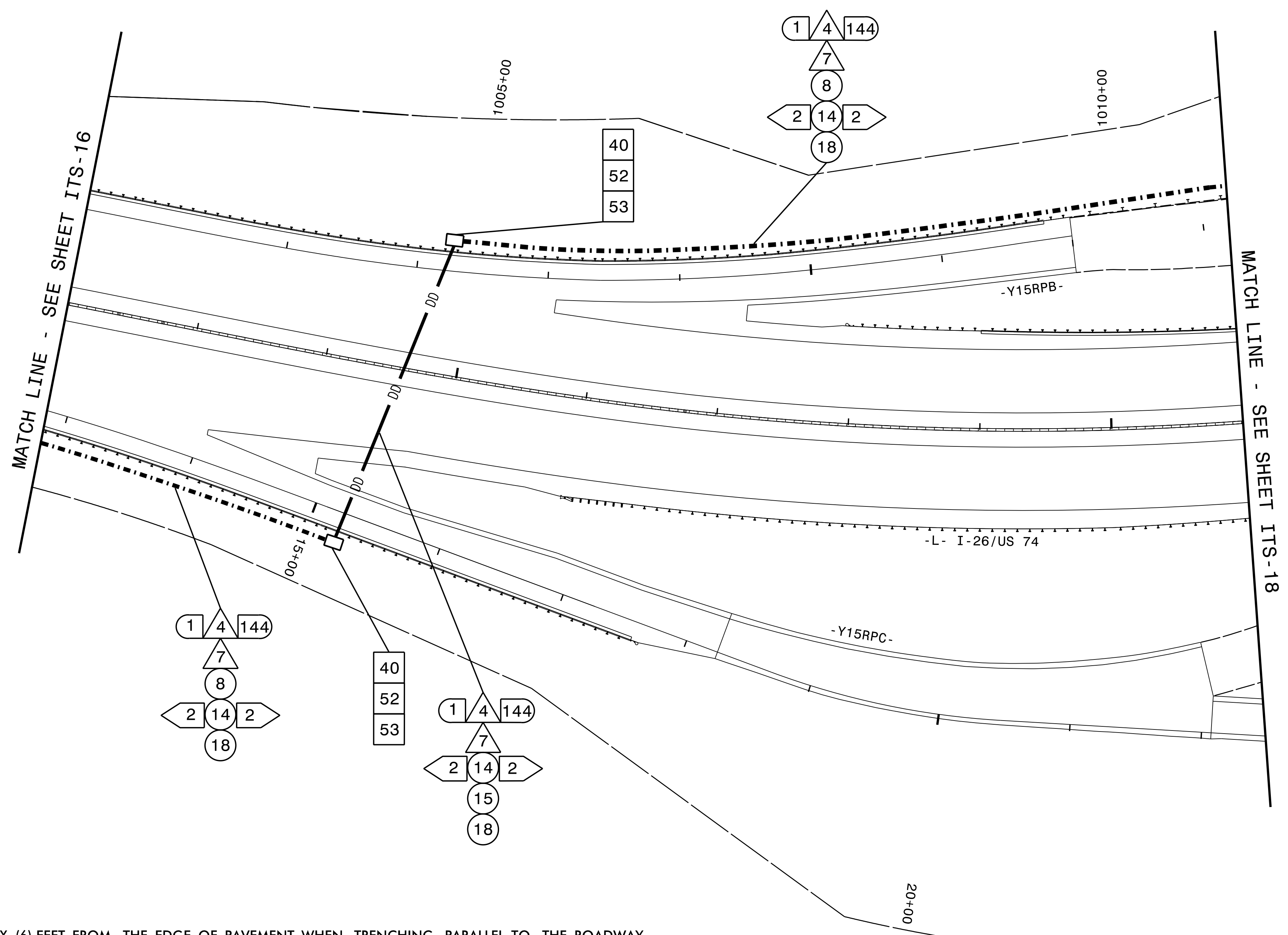
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	I-4700 CABLE ROUTING PLAN		
	Division 13	Buncombe	
250 N. Greenfield Place, Garner, NC 27529 SCALE 0 50 1"=50'	PLAN DATE: November 2018 PREPARED BY: Atizaz Ali	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons	Date Signed: 2/28/2019 SIGNATURE: Rakesh Nune DATE:

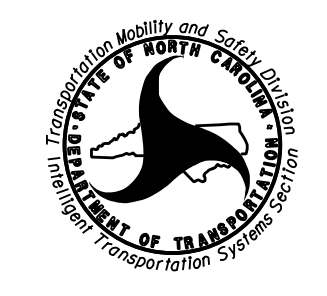


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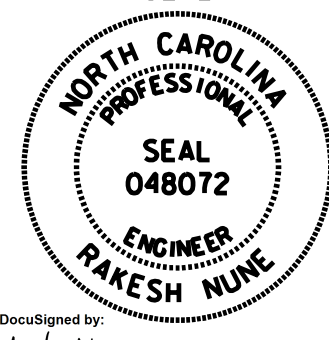
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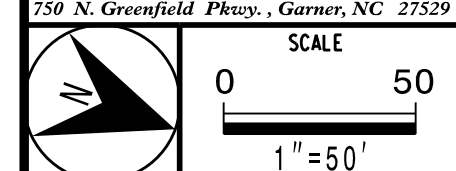
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Plans Prepared for:

 250 N. Greenfield Place, Garner, NC 27529

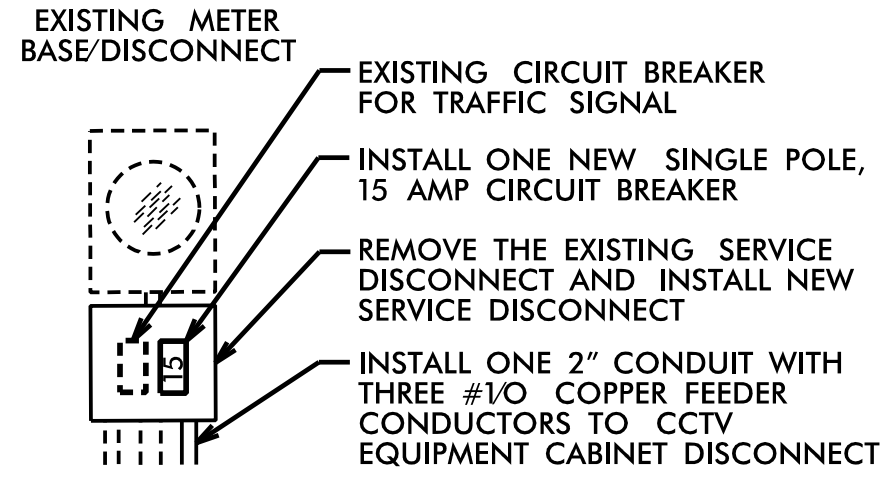
I-4700 CABLE ROUTING PLAN	
Division 13	Buncombe Asheville
PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL

 ENGINEER
RAKESH NUNE
 Date: 2/28/2019
 SIGNATURE DATE
 CADD Filename: I-4700 ITS-17.dgn



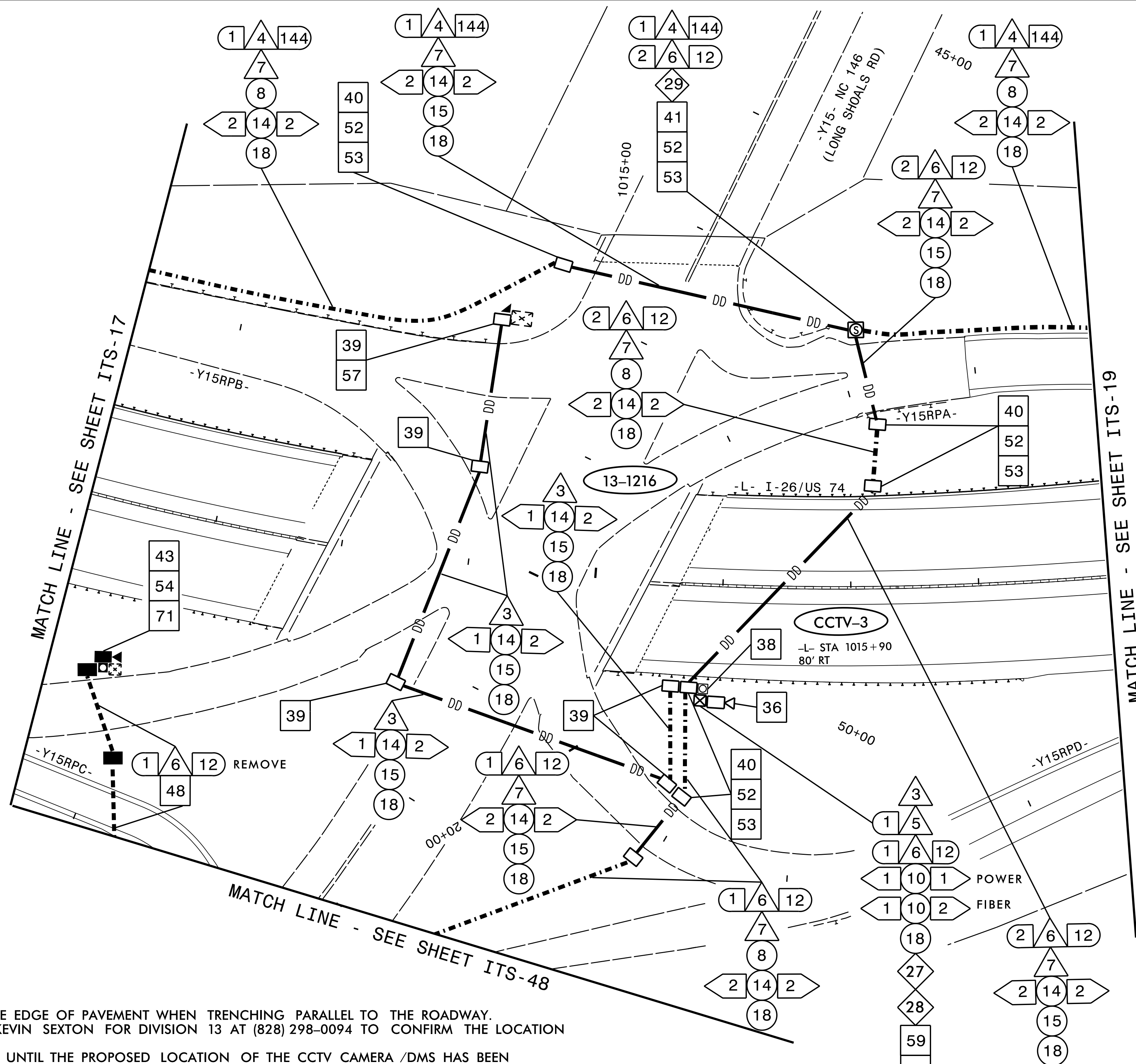
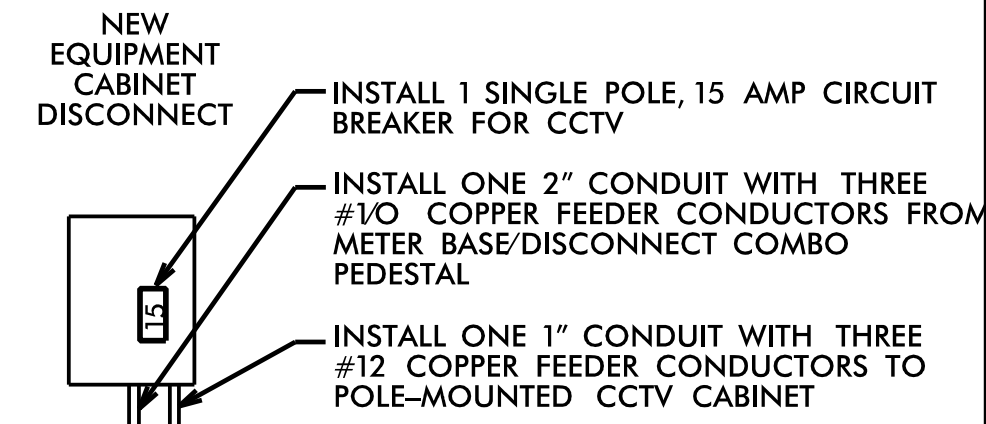
DRAWING 1

MODIFY EXISTING ELECTRICAL SERVICE



DRAWING 2

NEW EQUIPMENT CABINET DISCONNECT



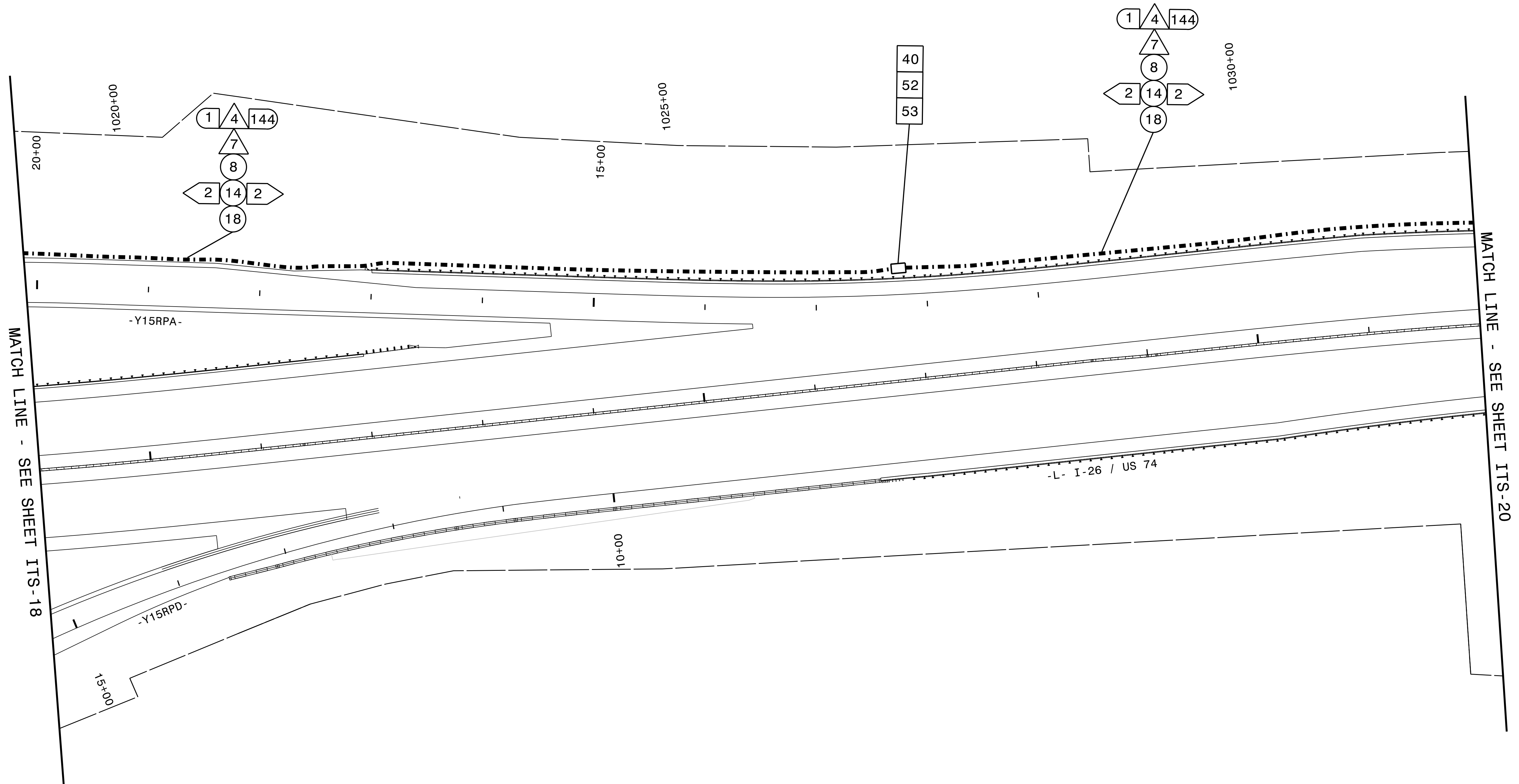
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Plans Prepared for: 	I-4700 CABLE ROUTING PLAN		SEAL
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1"=50'	REVISIONS INIT. DATE	Date Signed by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD Filename: I-4700 ITS-18.dgn





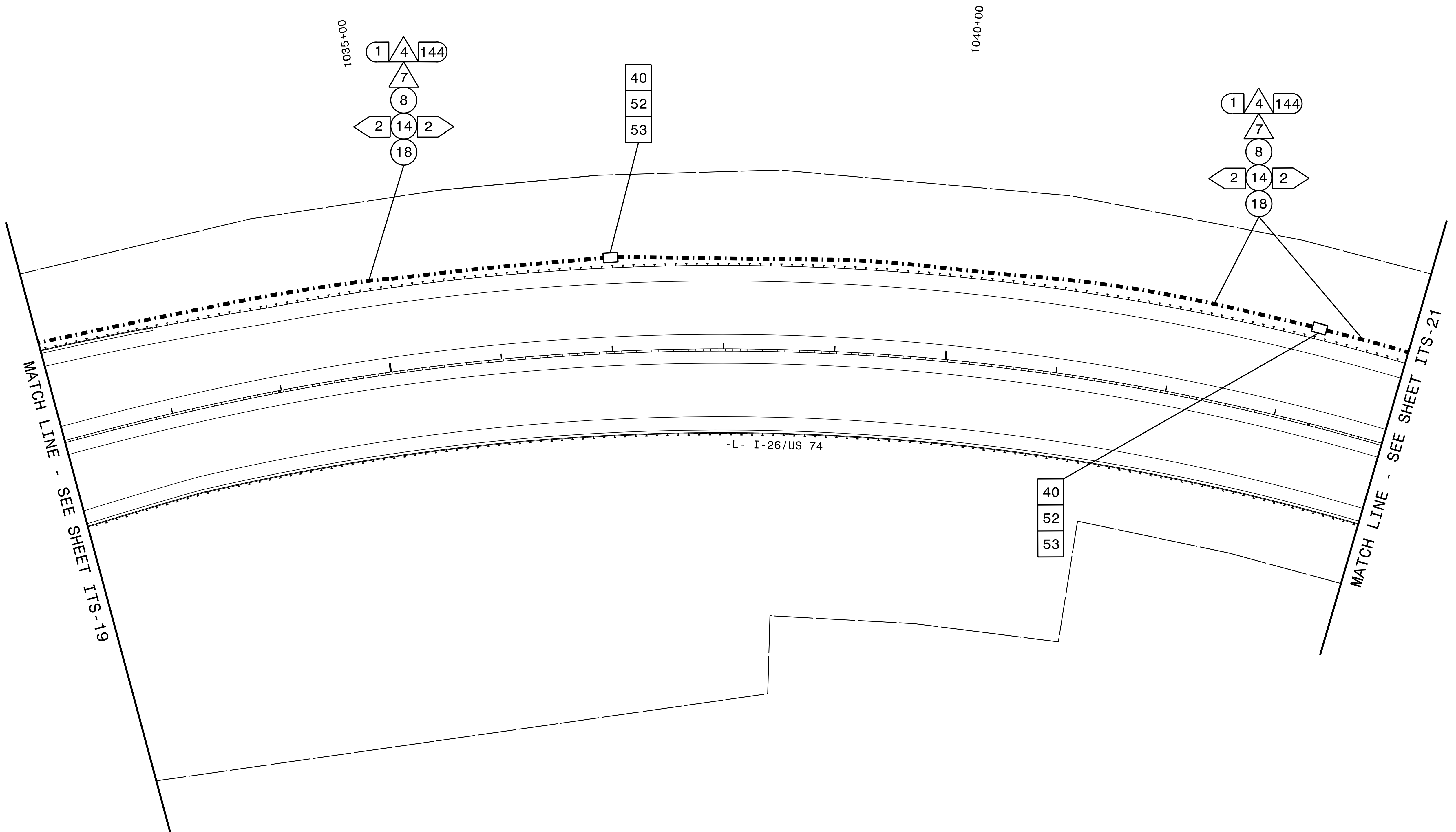
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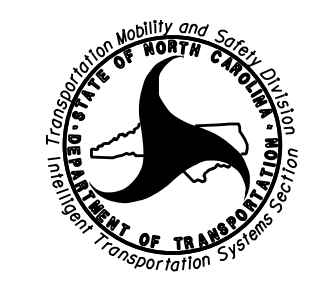

Plans Prepared for:  250 N. Greenfield Place - Garner, NC 27529	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 CADD File name: I-4700 ITS-19.dgn

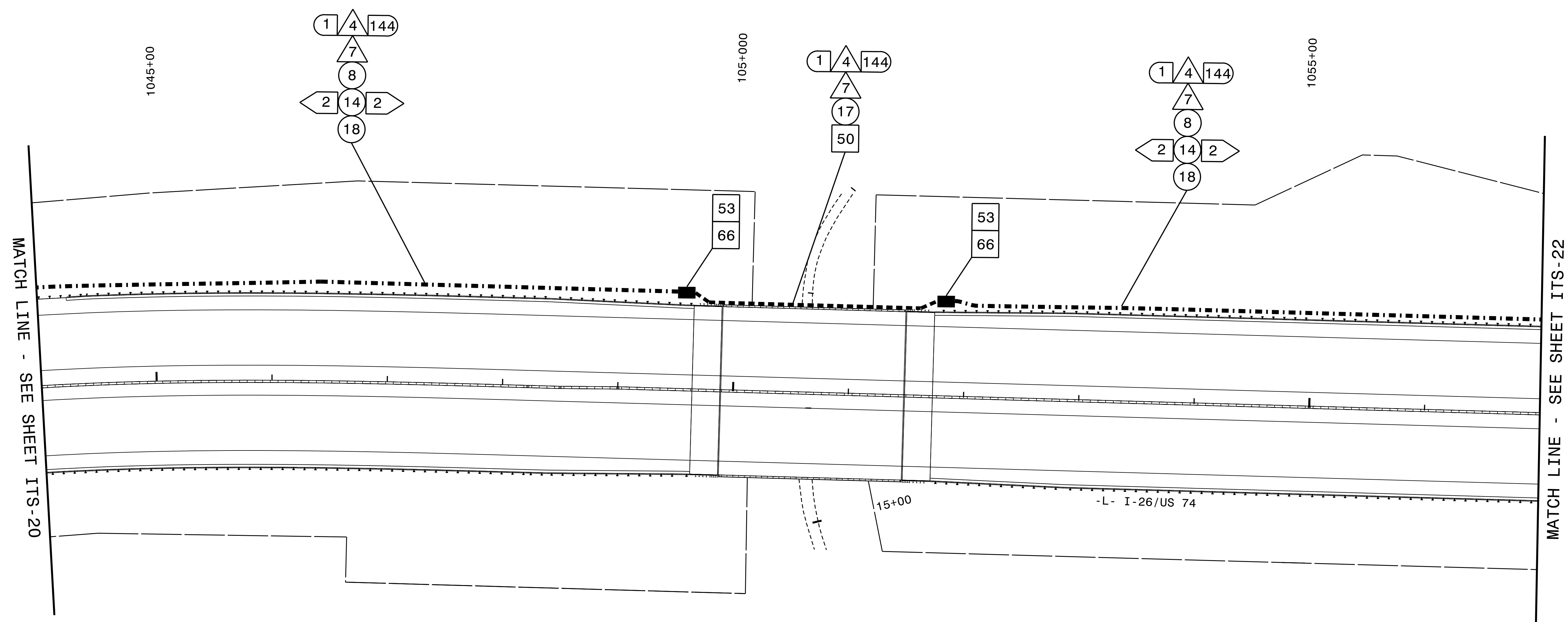


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 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	I-4700 CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE SEAL 048072
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1"=50'	REVISIONS INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD File Name: I-4700 ITS-20.dgn



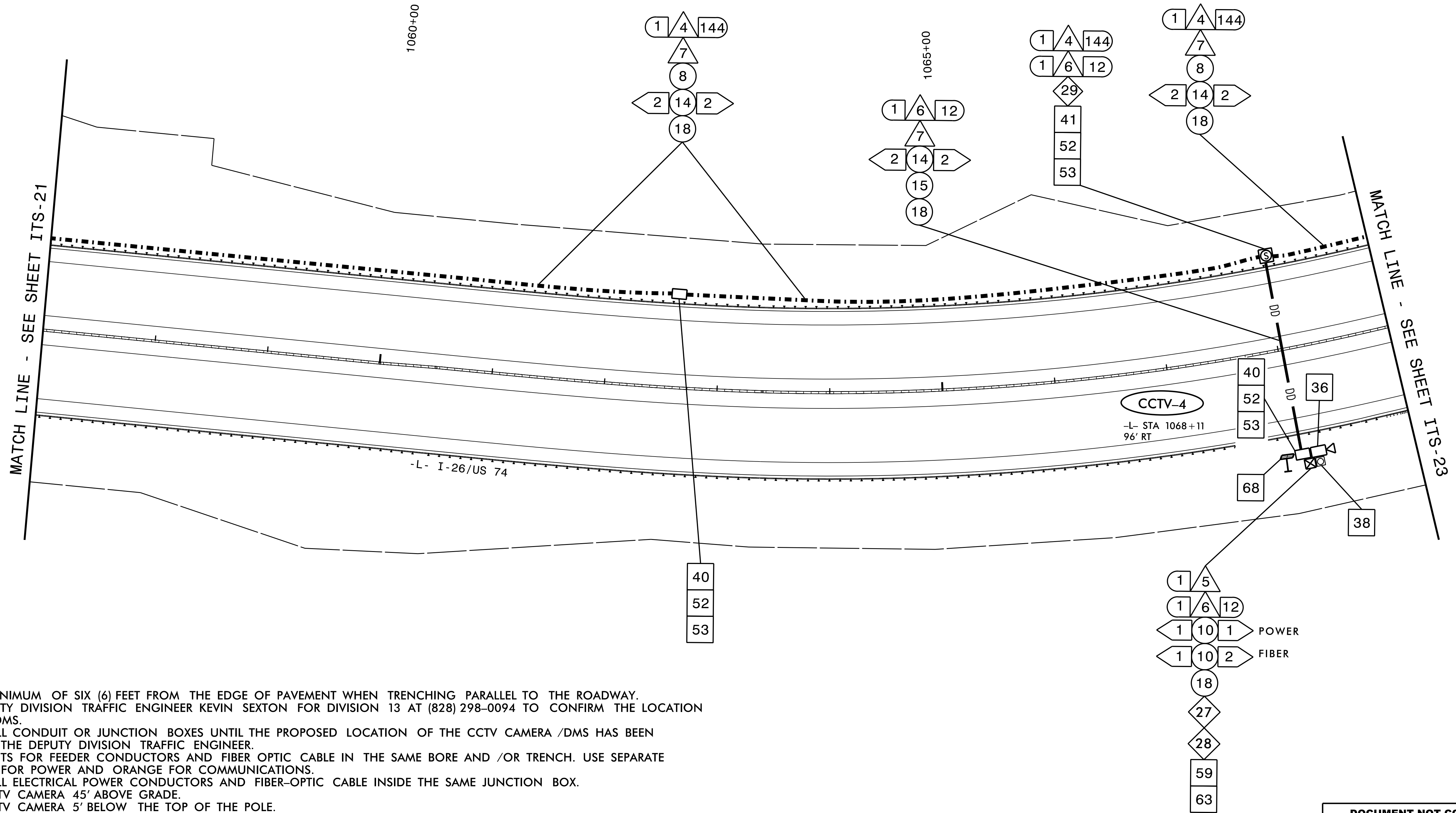
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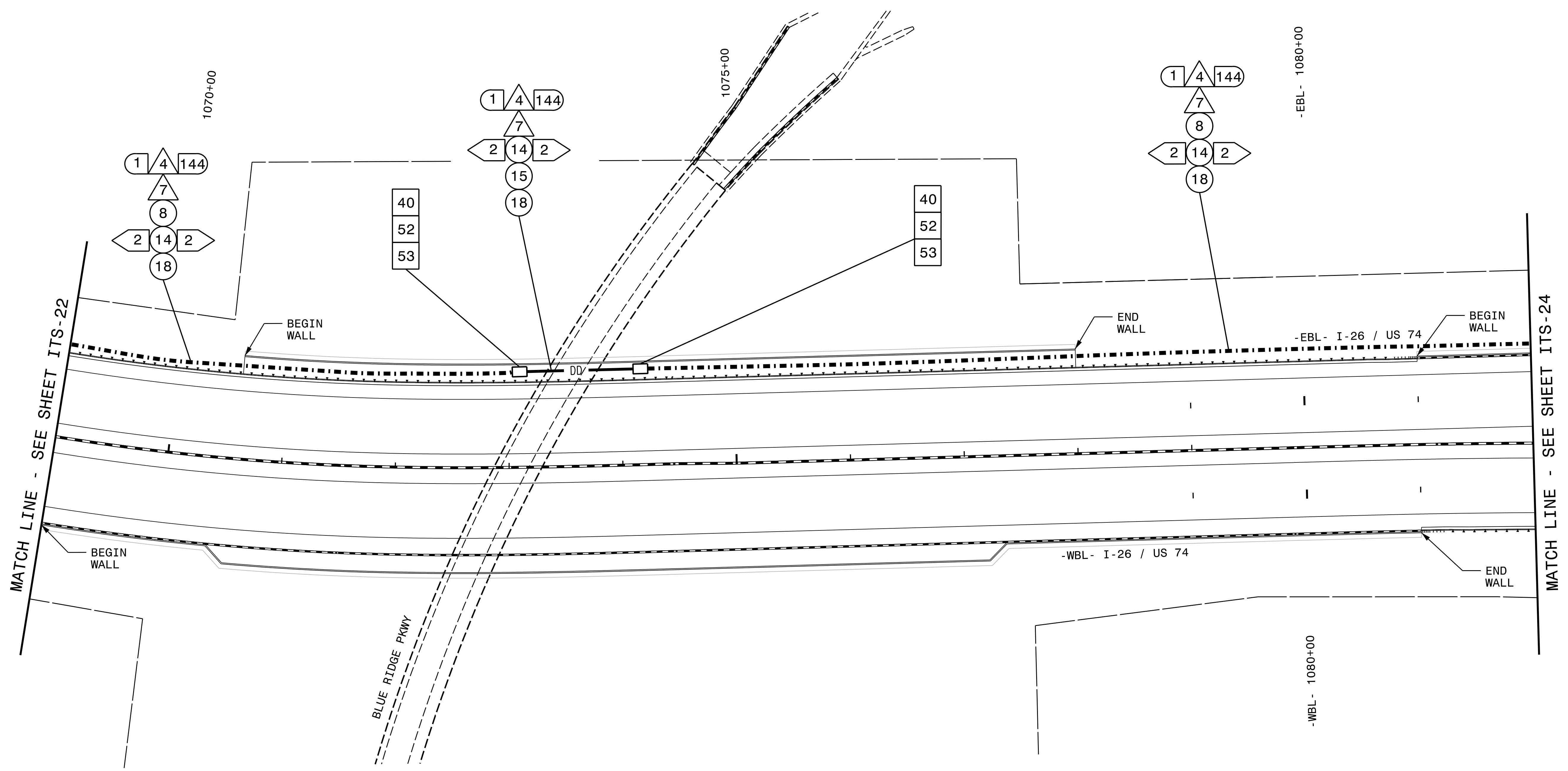
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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
259 N. Greenfield Place, Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed by: <i>Rakesh Nune</i> 2/28/2019
SCALE 0 50 1"=50'	REVISIONS INIT. DATE		SIGNATURE DATE
CADD File Name: I-4700 ITS-22.dgn			SEAL ENGINEER RAKESH NUNE





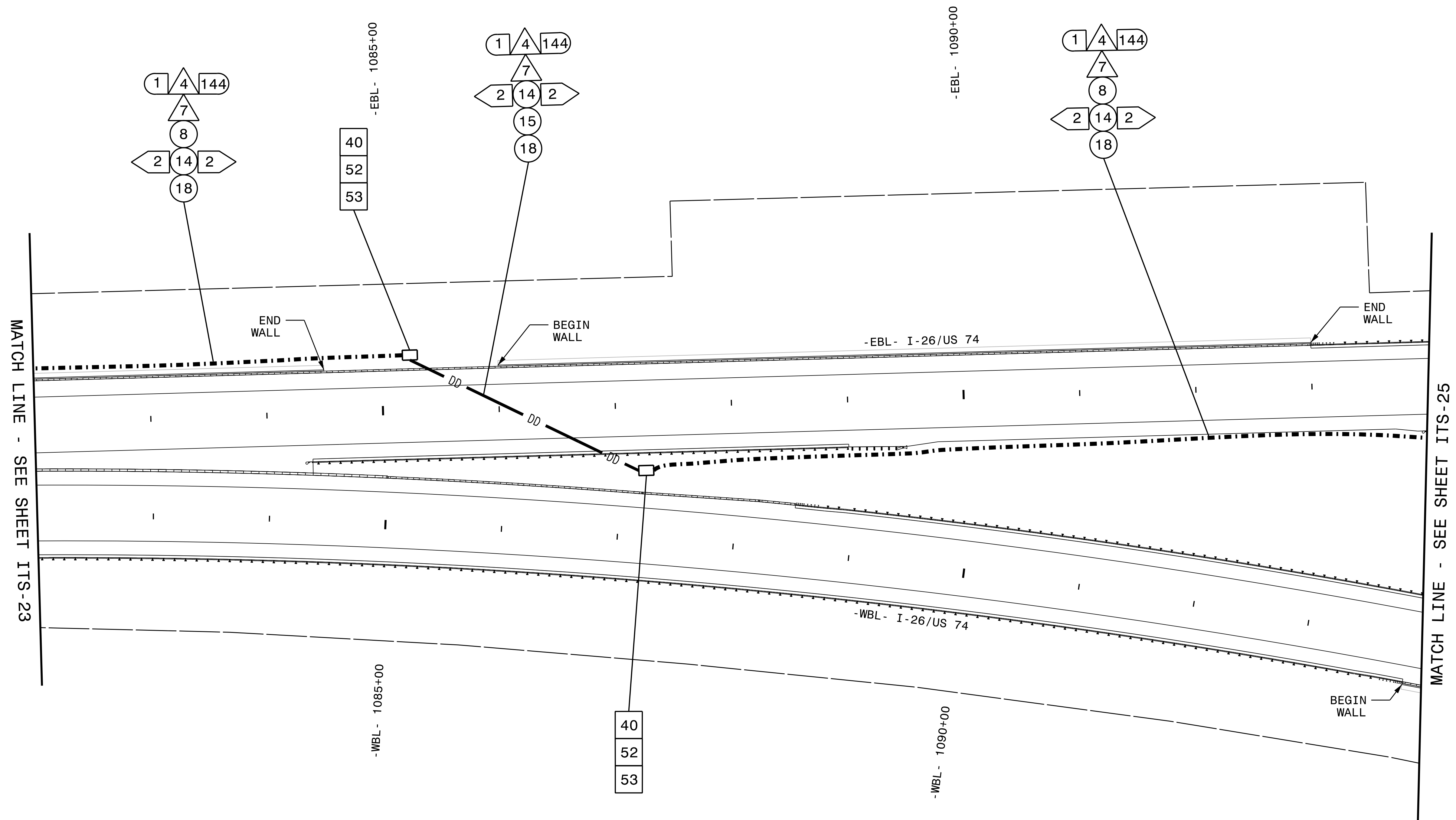
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 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	I-4700 CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE 048072					
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell		PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons				
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REVISIONS	INIT.	DATE						





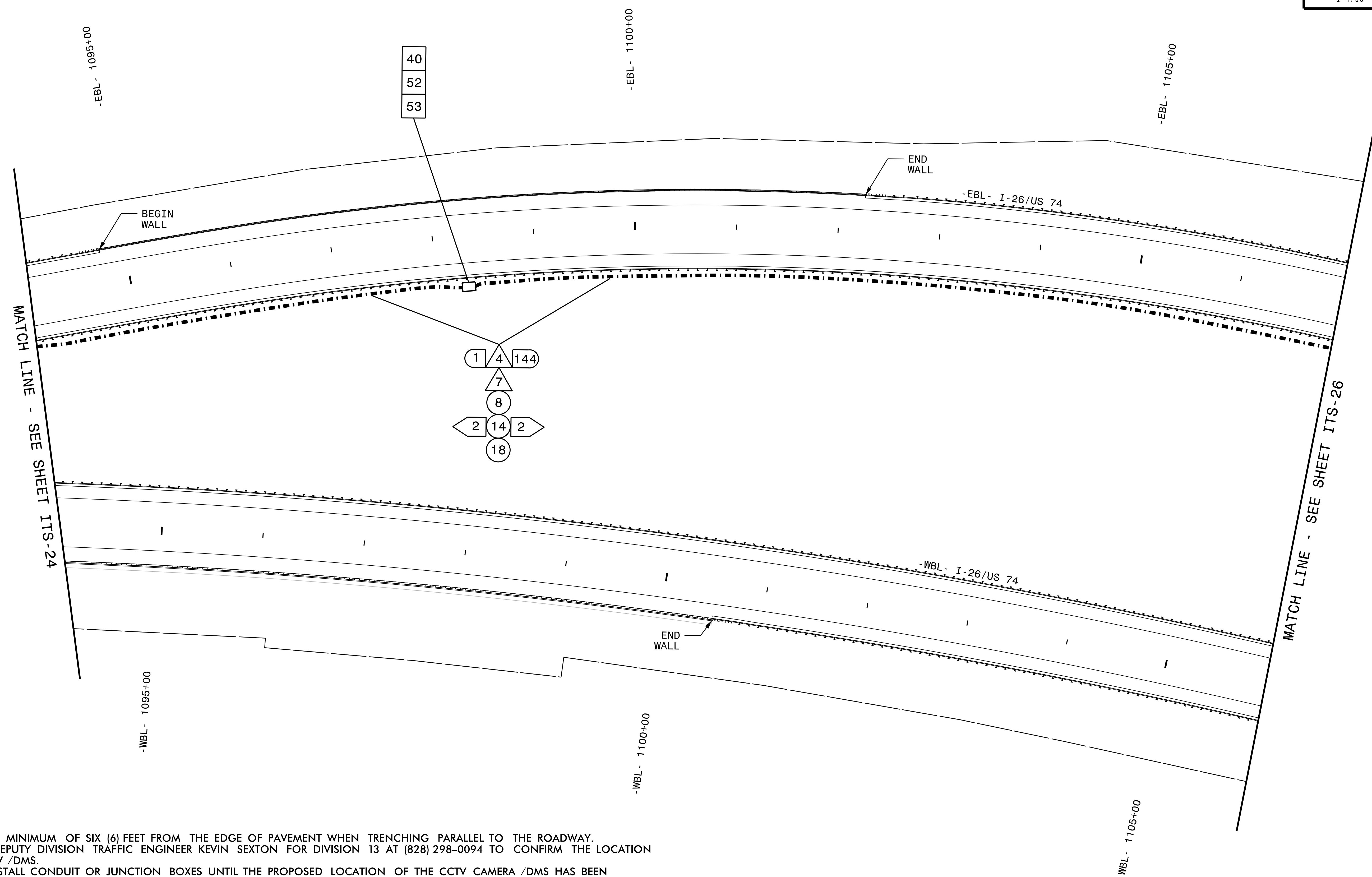
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9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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(919) 546-8997

 Plans Prepared for: DIVISION OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529	I-4700 CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE 048072
	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE _____ _____ _____	
SCALE 0 50 1"=50'	DocuSigned by: Rakesh Nune 2/28/2019 BE01A5A037440 SIGNATURE DATE CADD Filename: I-4700 ITS-24.dgn		

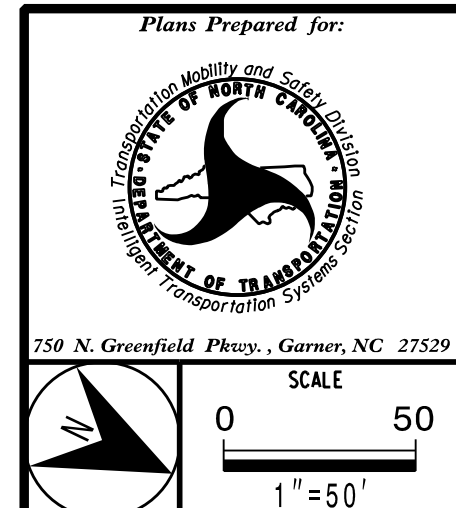


NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

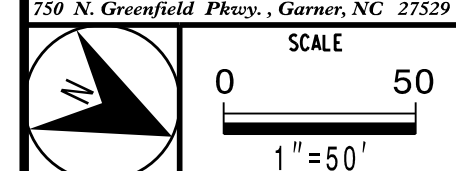
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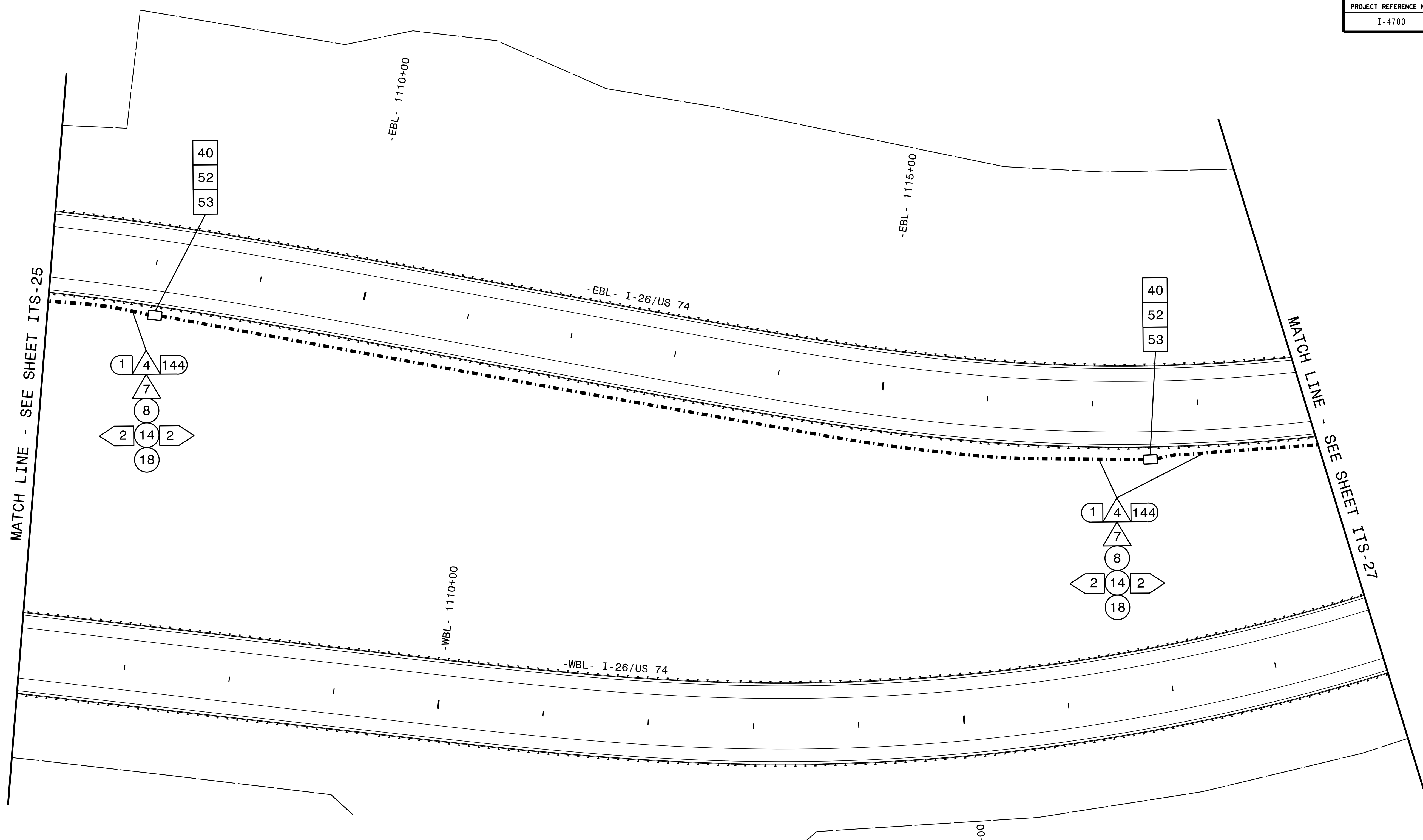
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I-4700 CABLE ROUTING PLAN	
Division 13	Buncombe Asheville
PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
048072
RAKESH NUNE
DocuSigned by:
Rakesh Nune
2/28/2019
15815A4037440
SIGNATURE DATE
CADD Filename: I-4700 ITS-25.dgn





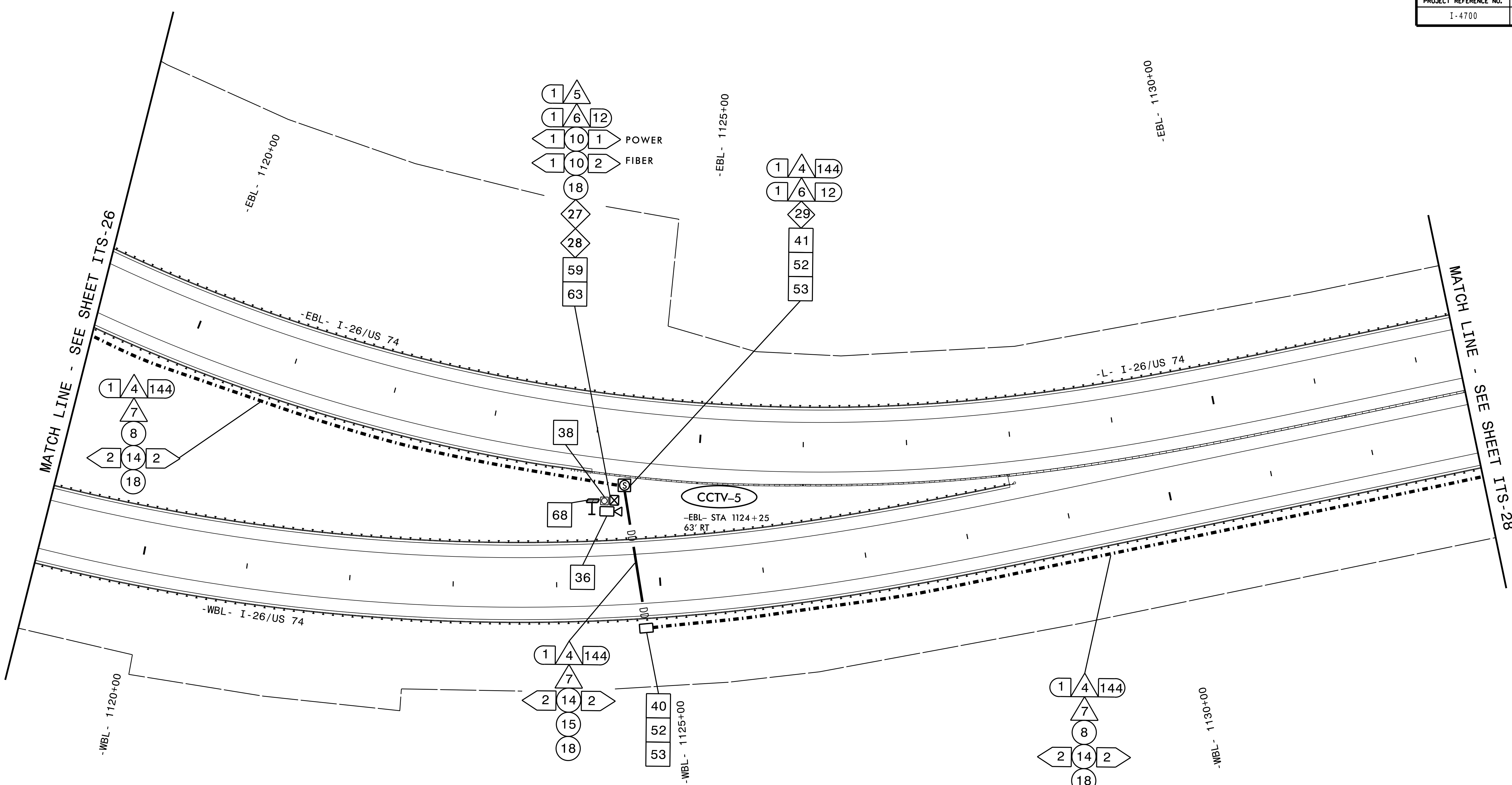
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4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed by: Rakesh Nune 2/28/2019
SCALE 0 50 1" = 50'	REVISIONS	INIT. DATE	SIGNATURE DATE
CADD Filename: I-4700 ITS-26.dgn			SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE



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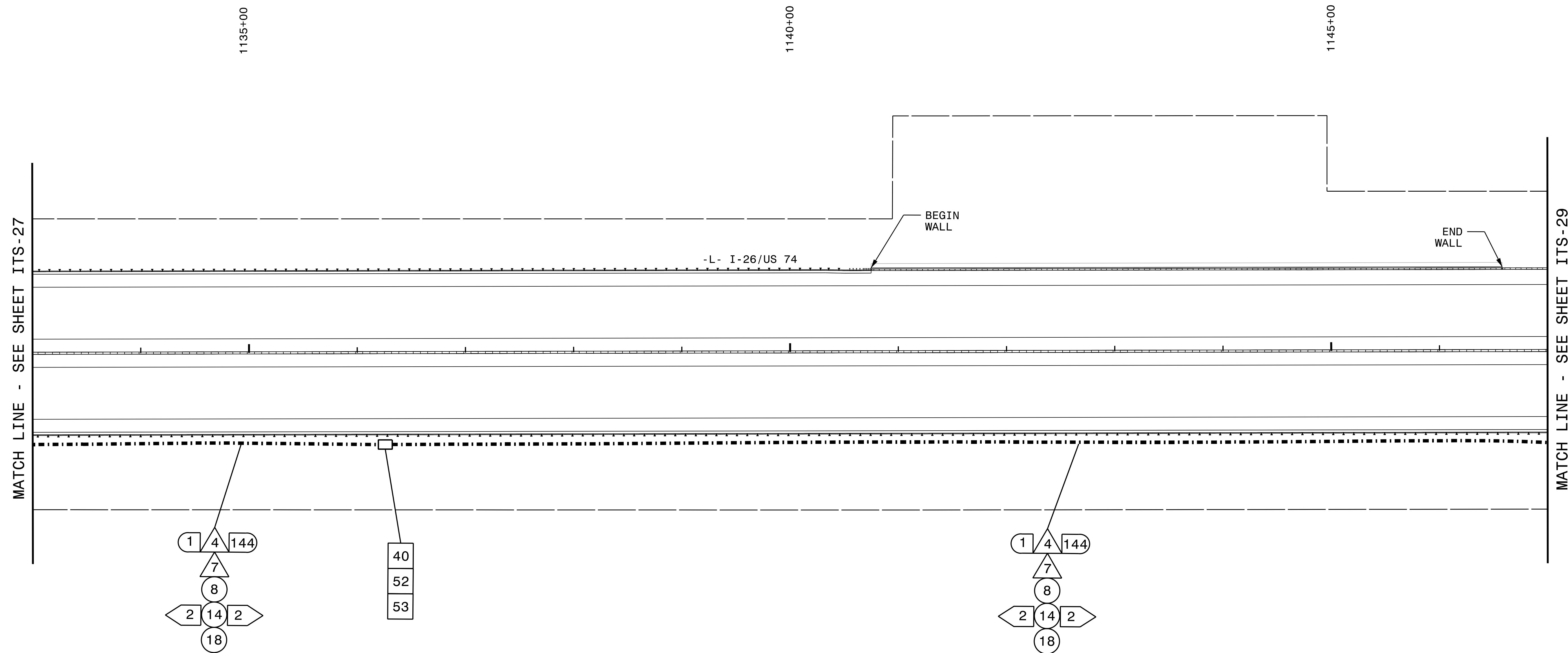
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12. SIX (6) WEEKS PRIOR TO BEGINNING WORK ON THE DEVICES, CONTACT THE DIVISION 13 DEPUTY TRAFFIC ENGINEER TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY SUBNET MASK AND VLAN ID INFORMATION, NOTIFY THE DEPUTY TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTION PROPERLY. WORK IS NOT COMPLETE UNTIL THE SYSTEM IS BACK UP AND FUNCTIONAL.

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Plans Prepared for: 250 N. Greenfield Place, Garner, NC 27529	I-4700 CABLE ROUTING PLAN		 Rakesh Nune 2/28/2019
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE 0 50 1"=50'	REVISIONS INIT. DATE		SIGNATURE DATE

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MATCH LINE - SEE SHEET ITS-27

MATCH LINE - SEE SHEET ITS-29

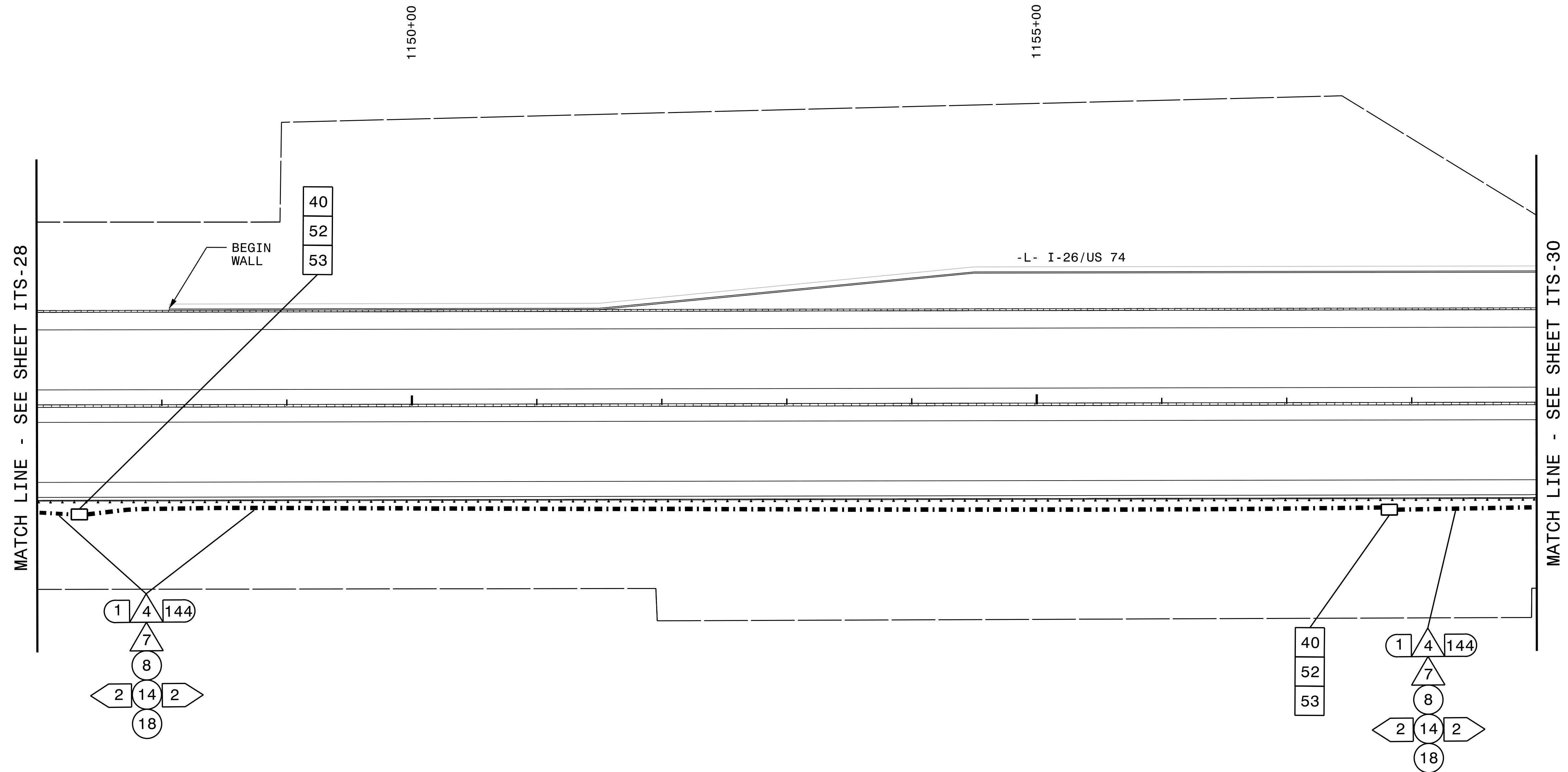
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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place - Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed by: <i>Rakesh Nune</i> 2/28/2019
SCALE 0 50 1"=50'	REVISIONS	INIT. DATE	SIGNATURE DATE
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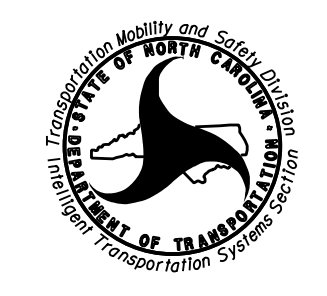

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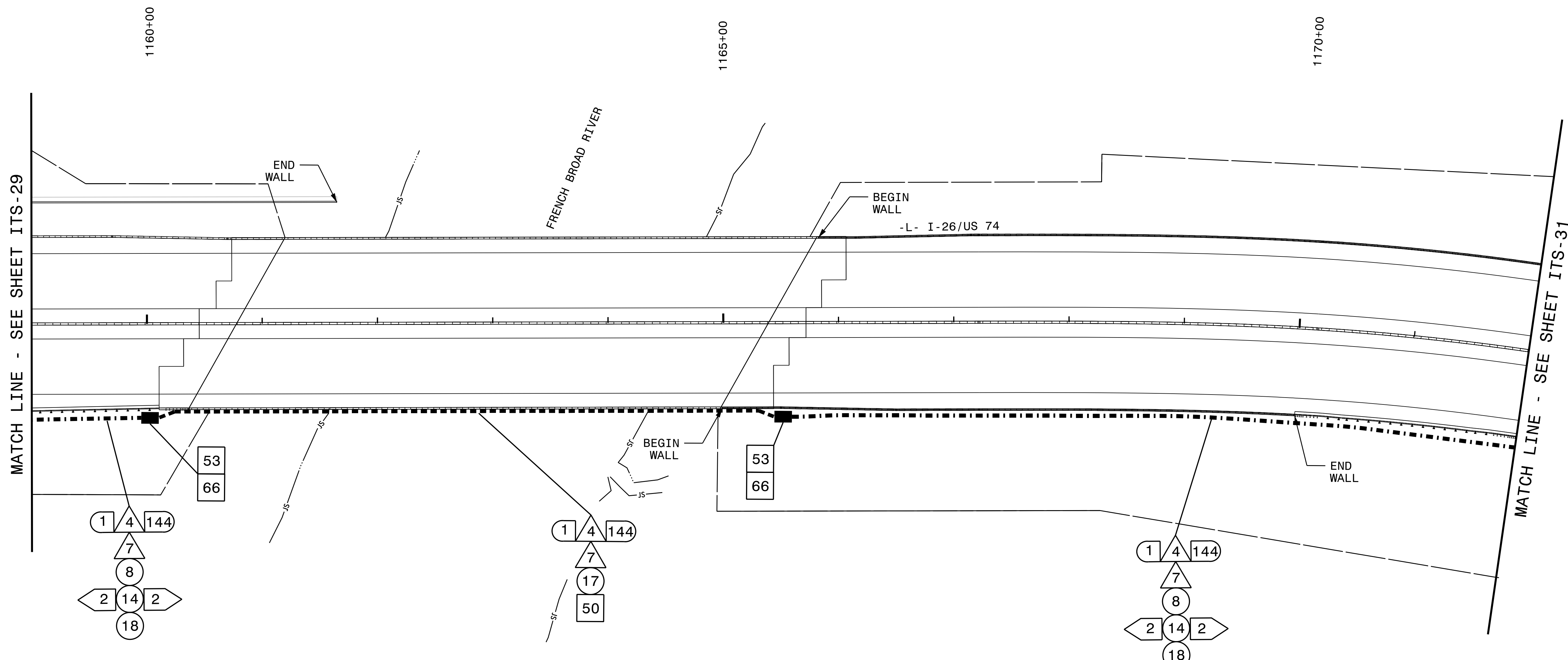
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Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-4700 CABLE ROUTING PLAN		SEAL  ENGINEER RAKESH NUNE
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE 0 50 1" = 50'	REVISIONS _____ INIT. DATE	SIGNATURE DATE	DocuSigned by: Rakesh Nune 2/28/2019 CADD File Name: I-4700 ITS-29.dgn



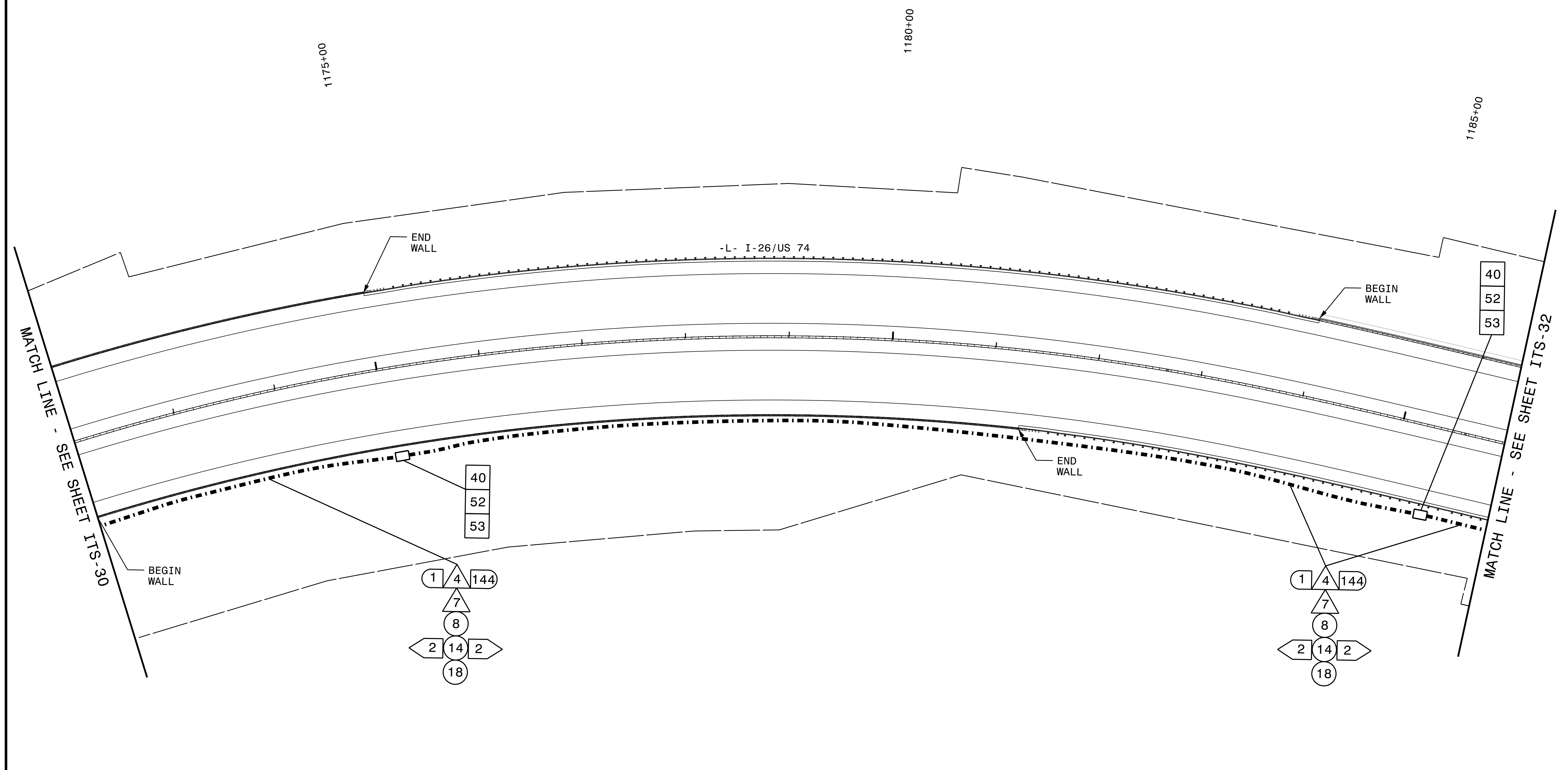
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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	REVISIONS	INIT. DATE	SEAL RAKESH NUNE 2/28/2019
SCALE: 1"=50'		CADD File name: I-4700 ITS-30.dgn	



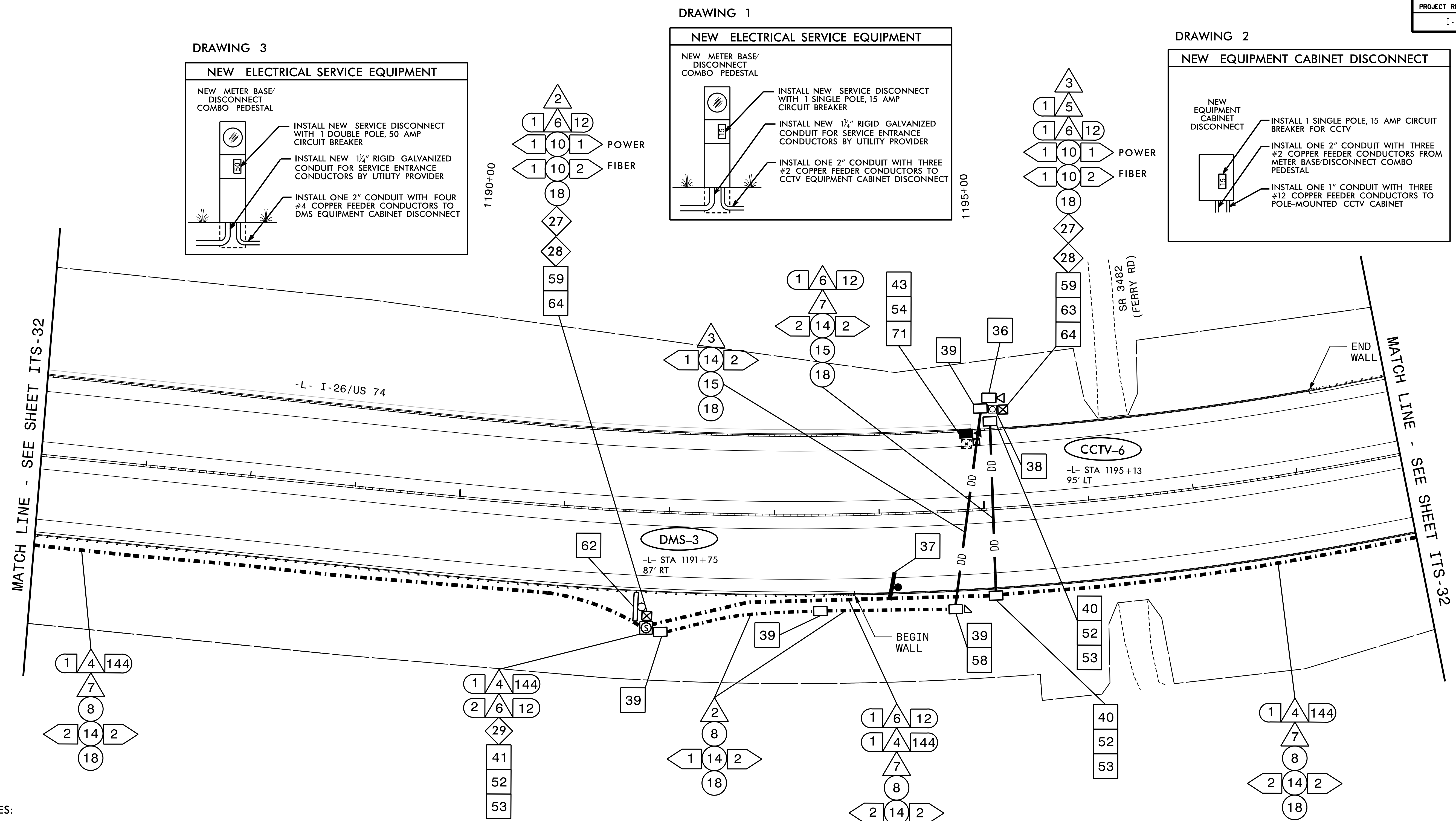
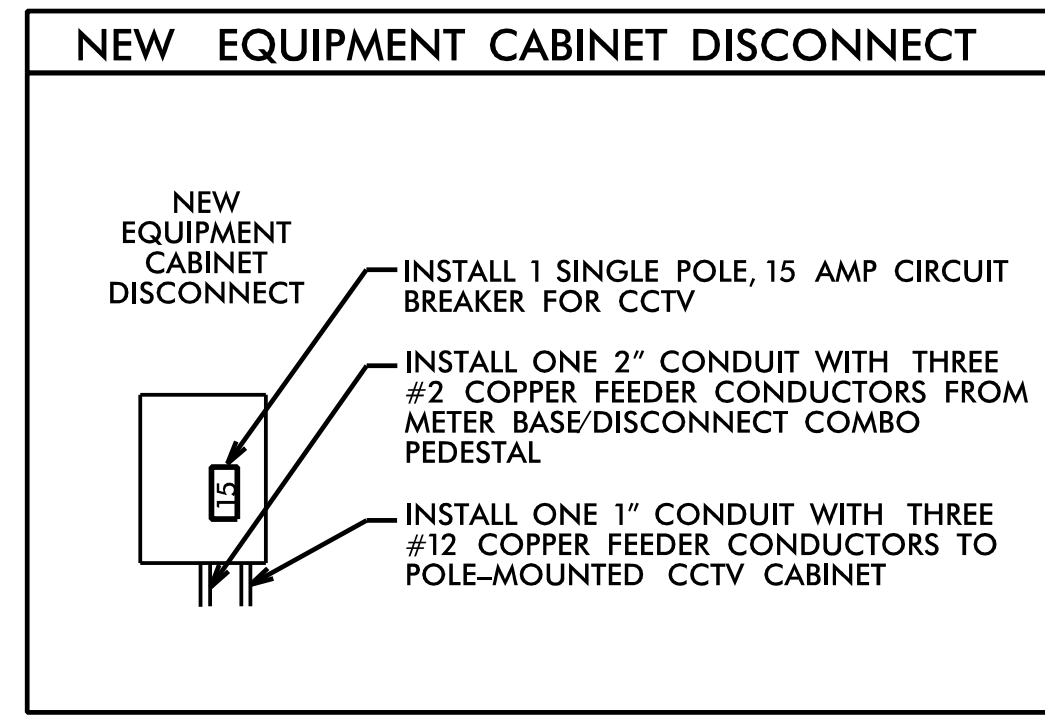
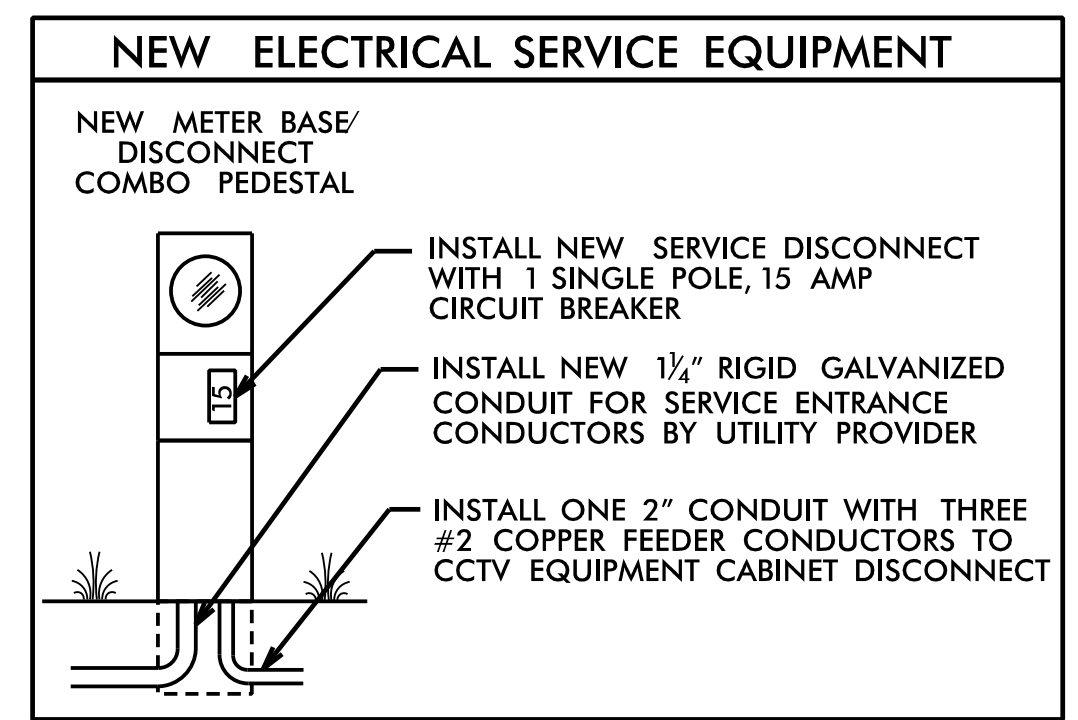
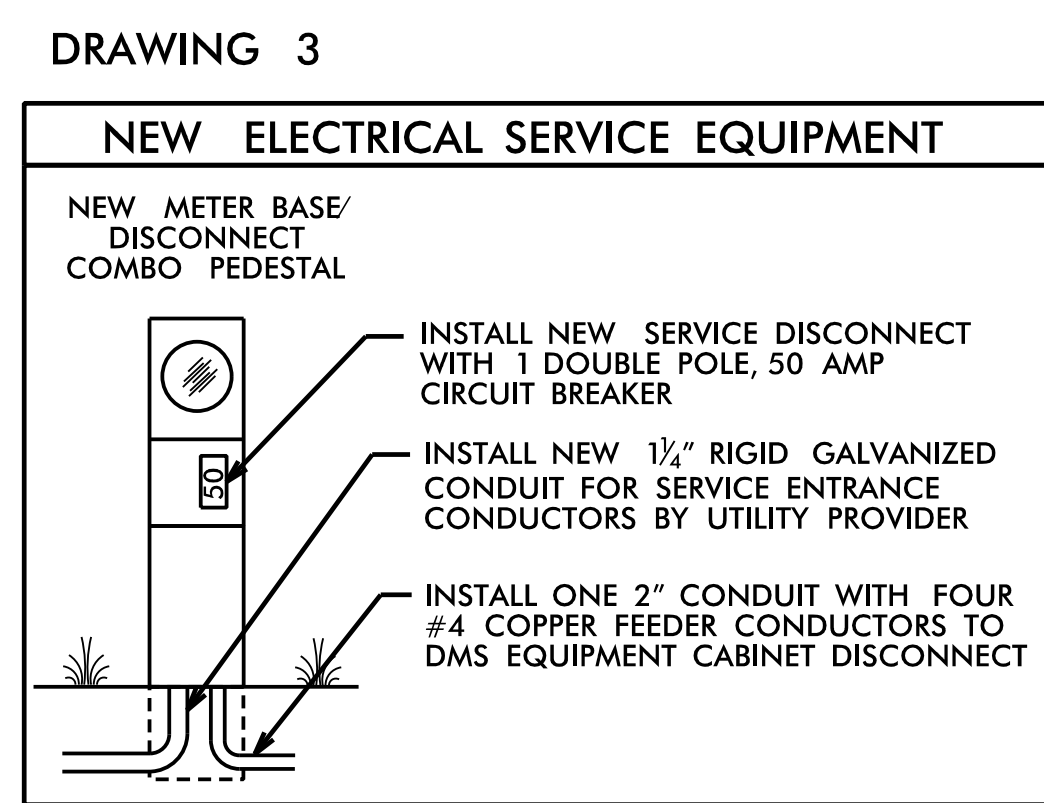
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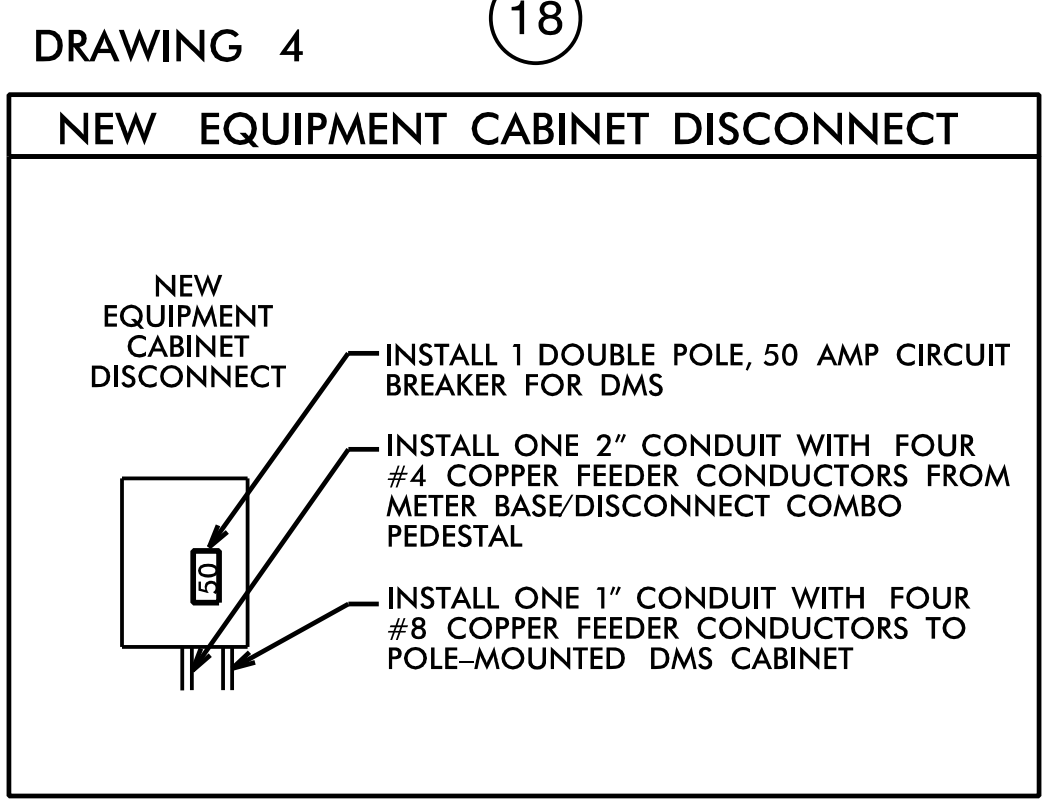
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	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed by: <i>Rakesh Nune</i> 2/28/2019
SCALE 0 50 1"=50'	REVISIONS	INIT. DATE	SIGNATURE DATE
CADD File Name: I-4700 ITS-31.dgn			

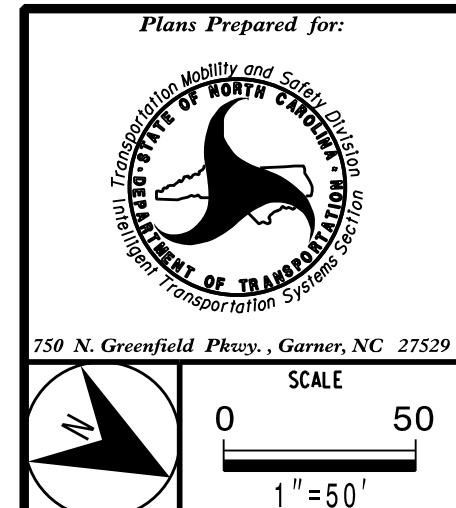


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Plans Prepared for:

I-4700
CABLE ROUTING PLAN

Division 13 Buncombe Asheville

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

PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons

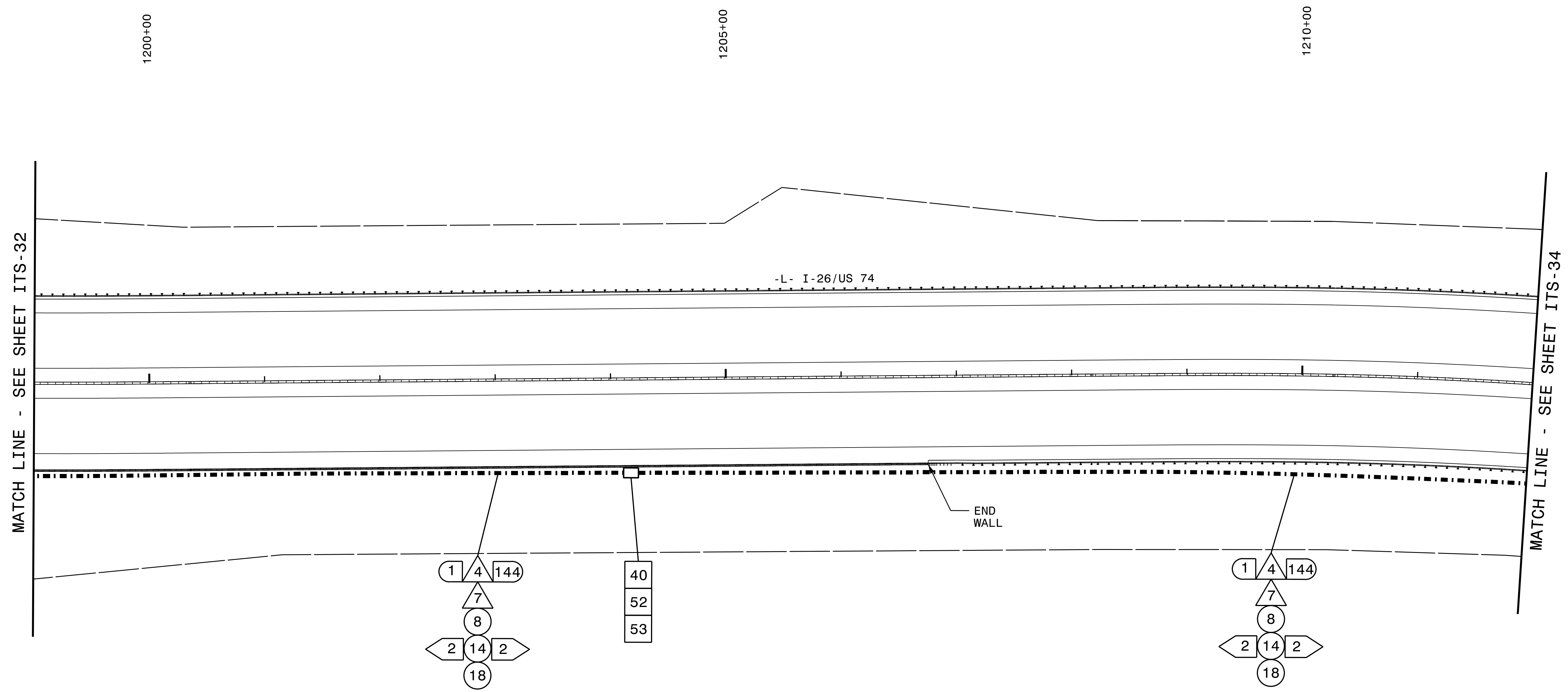
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SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 048072
 RAKESH NUNE

DocuSigned by: Rakesh Nune 2/28/2019
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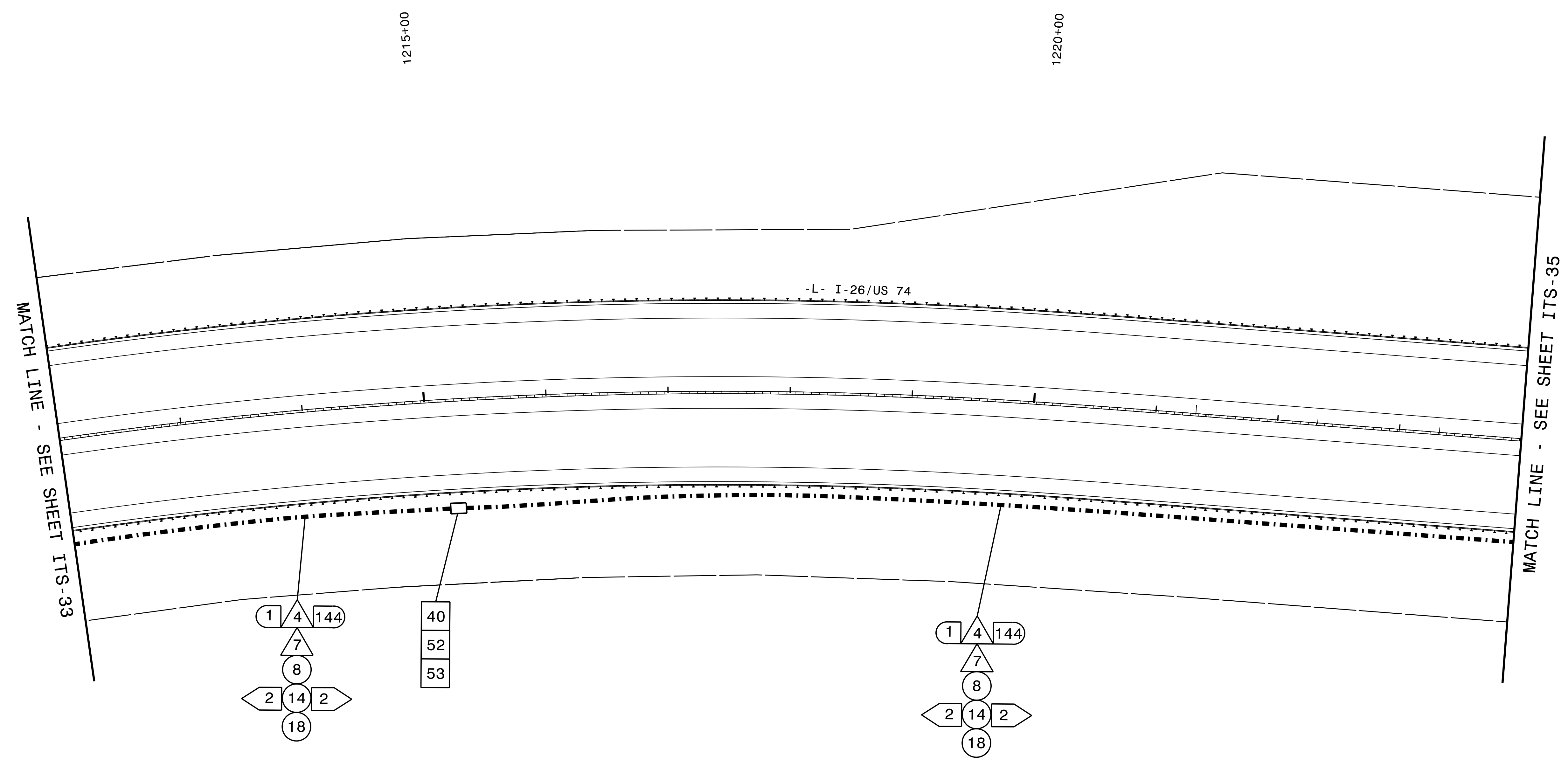
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	<p>I-4700 CABLE ROUTING PLAN</p>								
	<p>Division 13 Buncombe Asheville</p>	<p>PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell</p>							
<p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons</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: Rakesh Nune 2/28/2019</p>
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<p>SCALE 0 50 1"=50'</p>	<p>SIGNATURE DATE</p>		<p>CADD Filename: I-4700 ITS-33.dgn</p>						



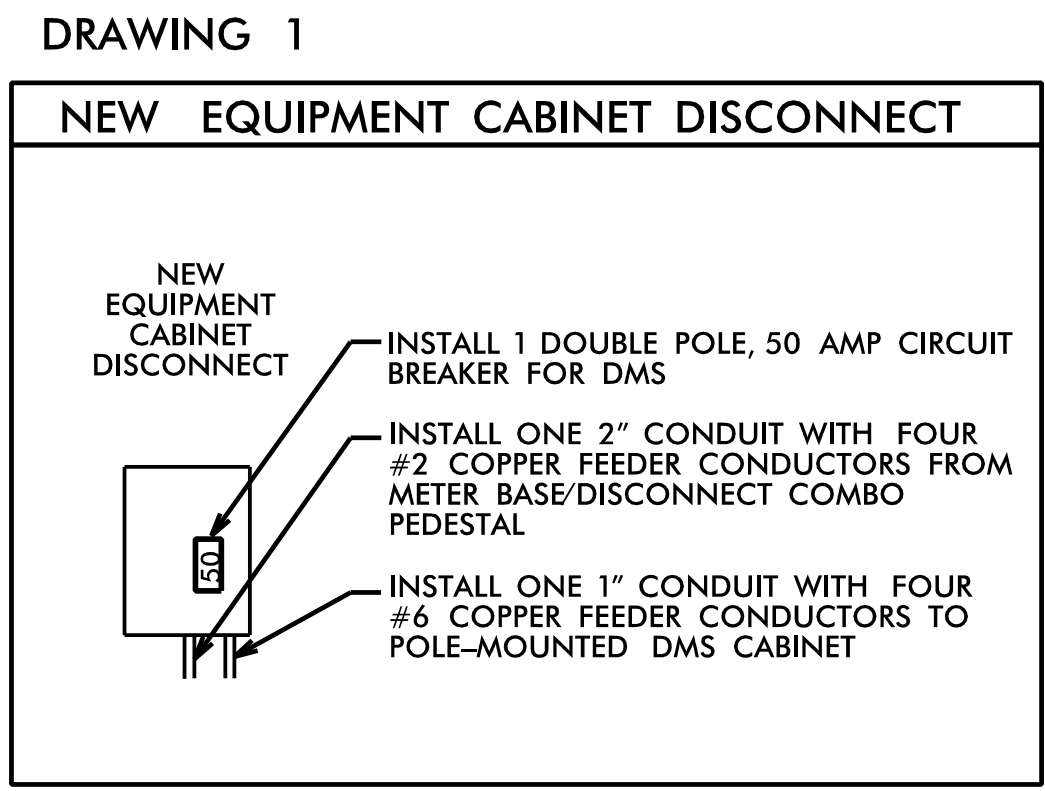
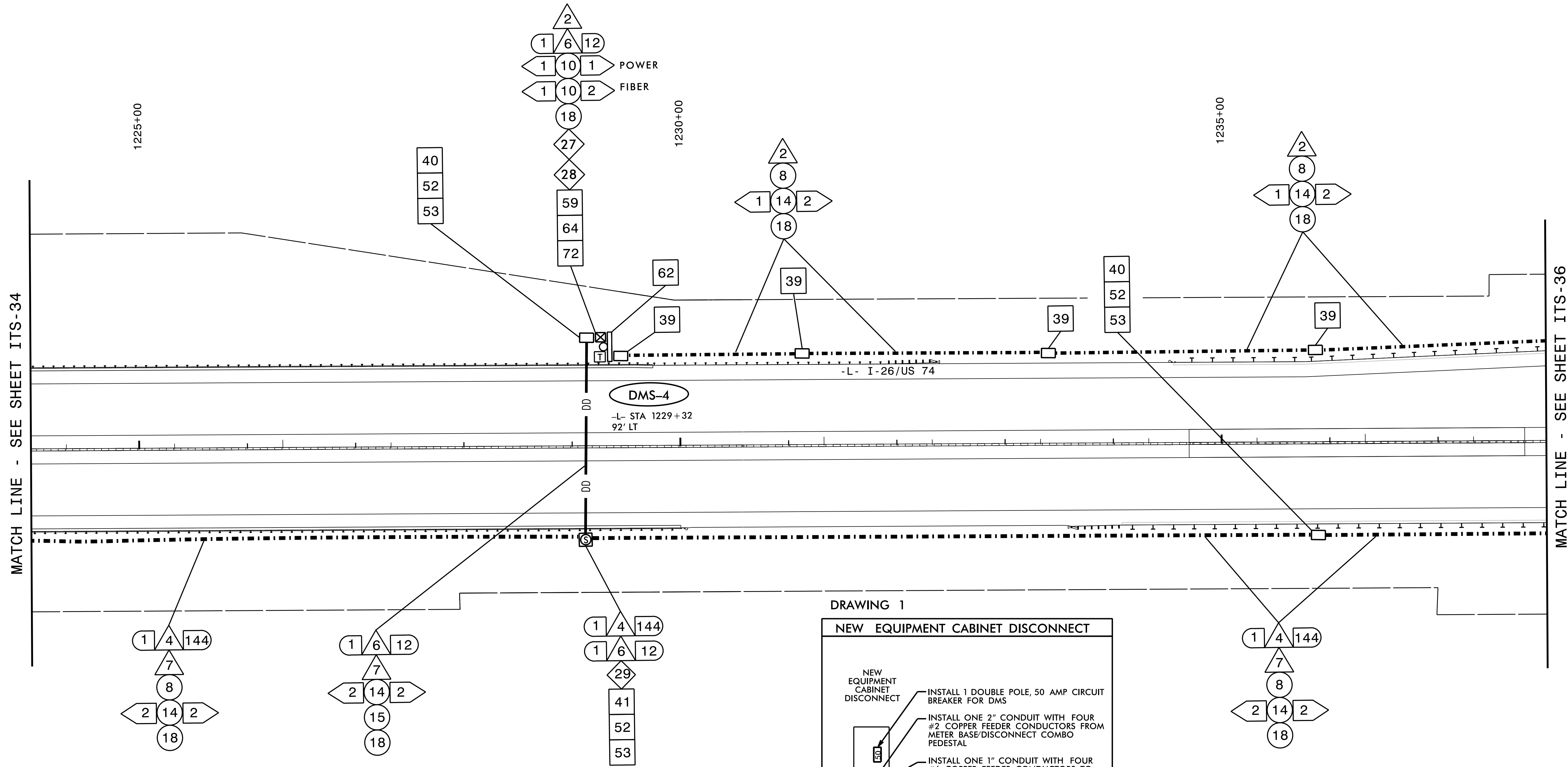
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	I-4700 CABLE ROUTING PLAN								
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell		PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons					
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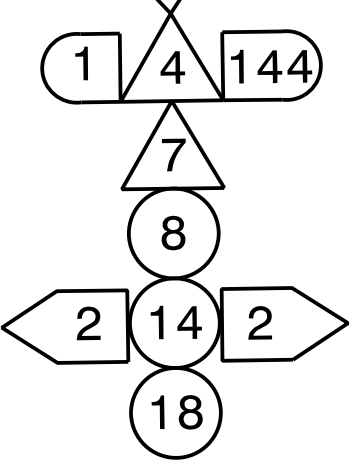
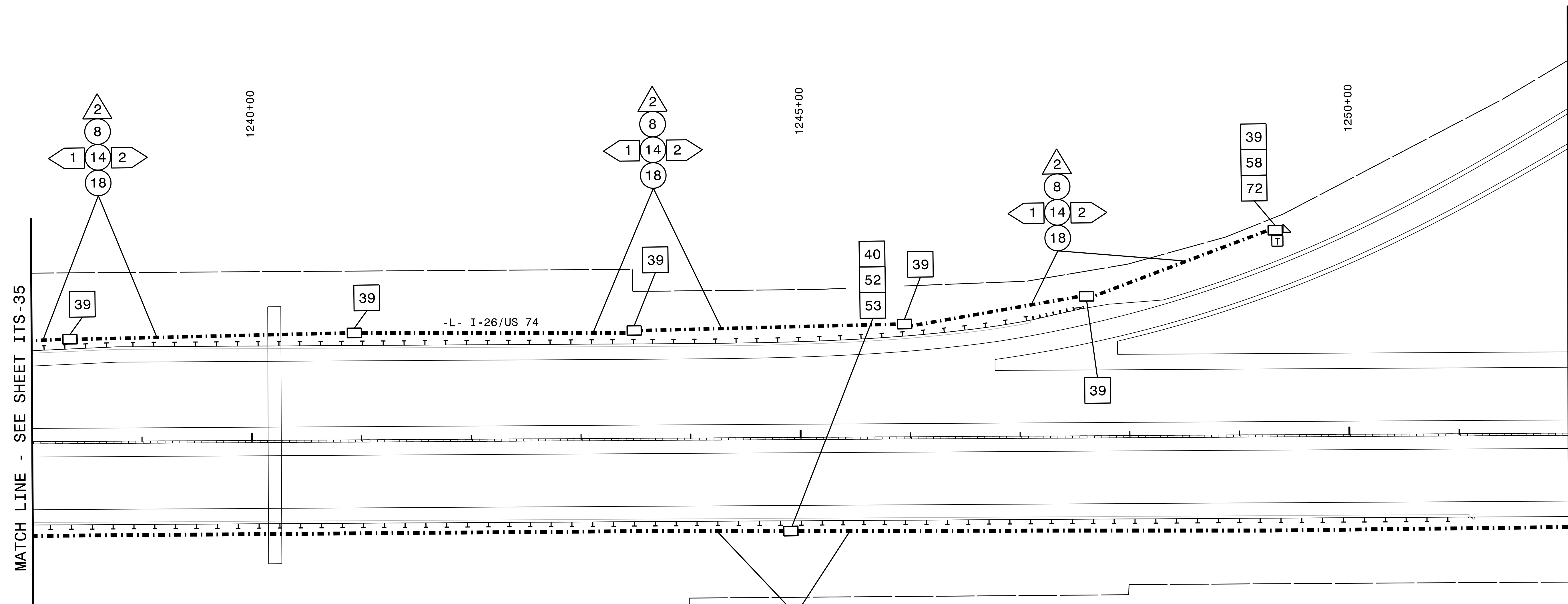
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	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE 0 50 1"=50'	REVISIONS _____ INIT. DATE	SIGNATURE _____ DATE	2/28/2019 CADD Filename: I-4700 ITS-35.dgn



DRAWING 1

NEW ELECTRICAL SERVICE EQUIPMENT

NEW METER BASE/
DISCONNECT
COMBO PEDESTAL

INSTALL NEW SERVICE DISCONNECT WITH 1 DOUBLE POLE, 50 AMP CIRCUIT BREAKER

INSTALL NEW 1/2" RIGID GALVANIZED CONDUIT FOR SERVICE ENTRANCE CONDUCTORS BY UTILITY PROVIDER

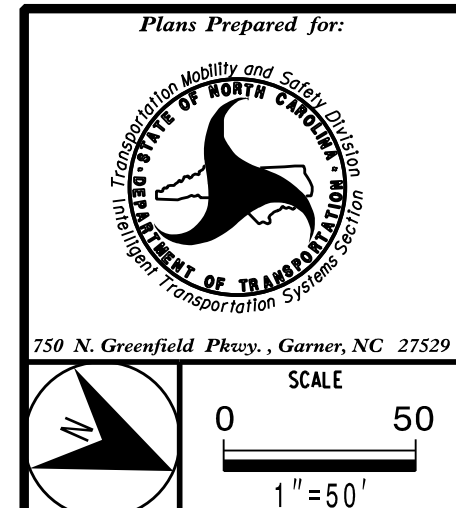
INSTALL ONE 2" CONDUIT WITH FOUR #2 COPPER FEEDER CONDUCTORS TO DMS EQUIPMENT CABINET DISCONNECT

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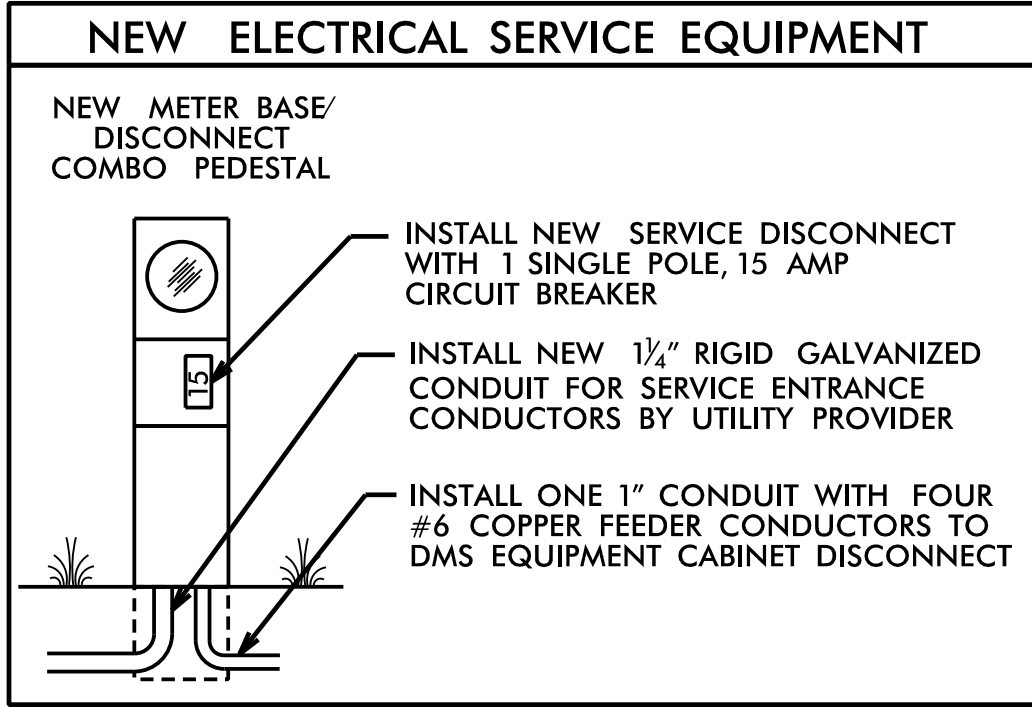
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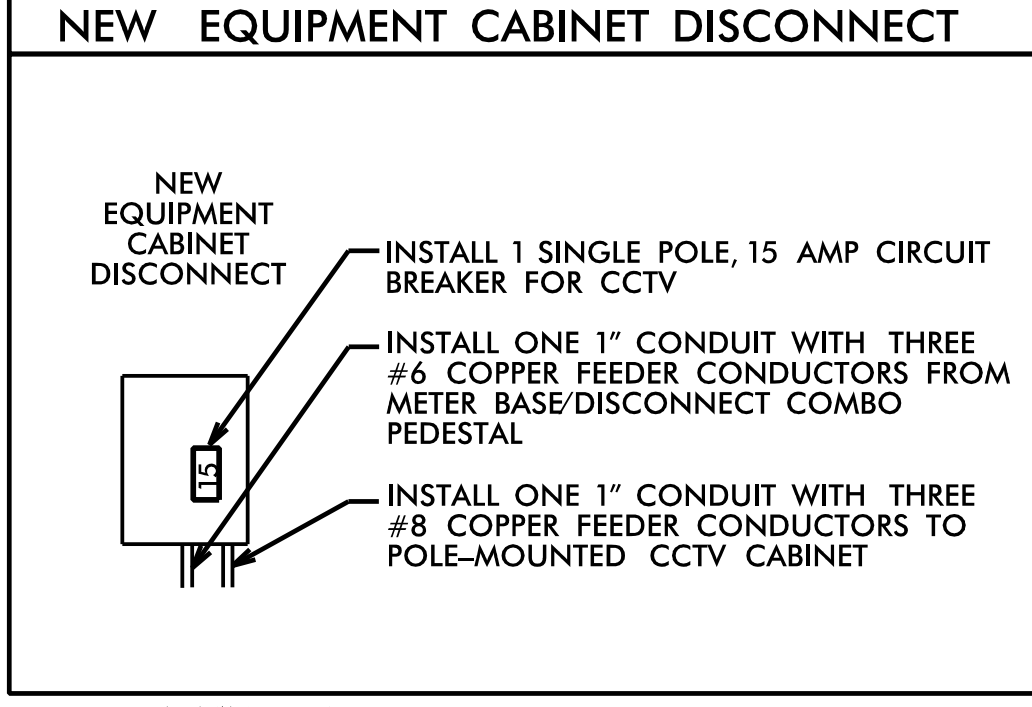
Plans Prepared for:		I-4700	
CABLE ROUTING PLAN		Division 13	
Buncombe		Asheville	
PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell		
PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons		
REVISIONS	INIT.	DATE	

SEAL	DATE
NORTH CAROLINA PROFESSIONAL ENGINEER	2/28/2019
Rakesh Nune	
SEAL 048072	
ENGINEER	
RAKESH NUNE	
SIGNATURE	DATE
CADD File name: I-4700 ITS-36.dgn	

DRAWING 1



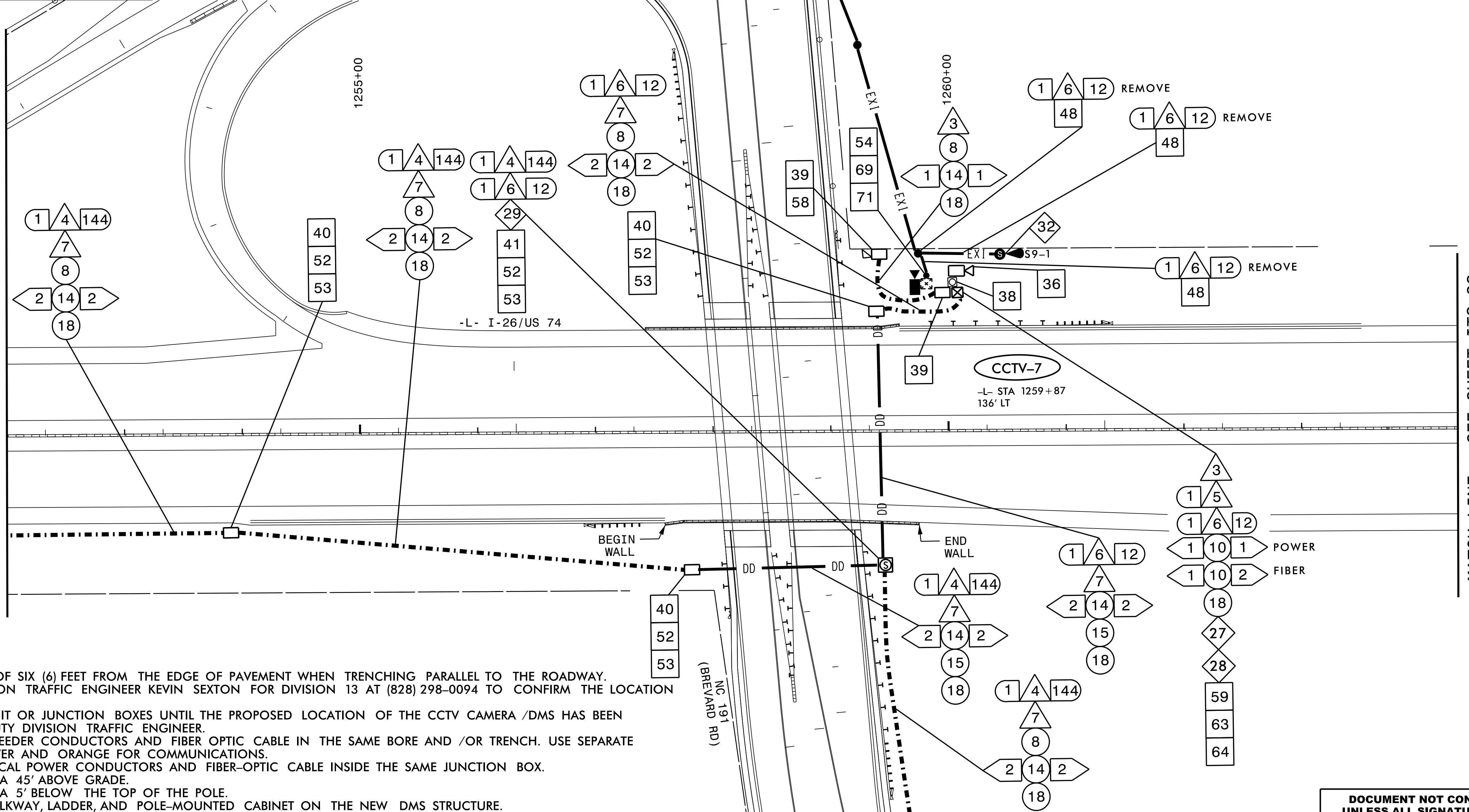
DRAWING 2



MATCH LINE - SEE SHEET ITS-36

MATCH LINE - SEE SHEET ITS-45

MATCH LINE - SEE SHEET ITS-38



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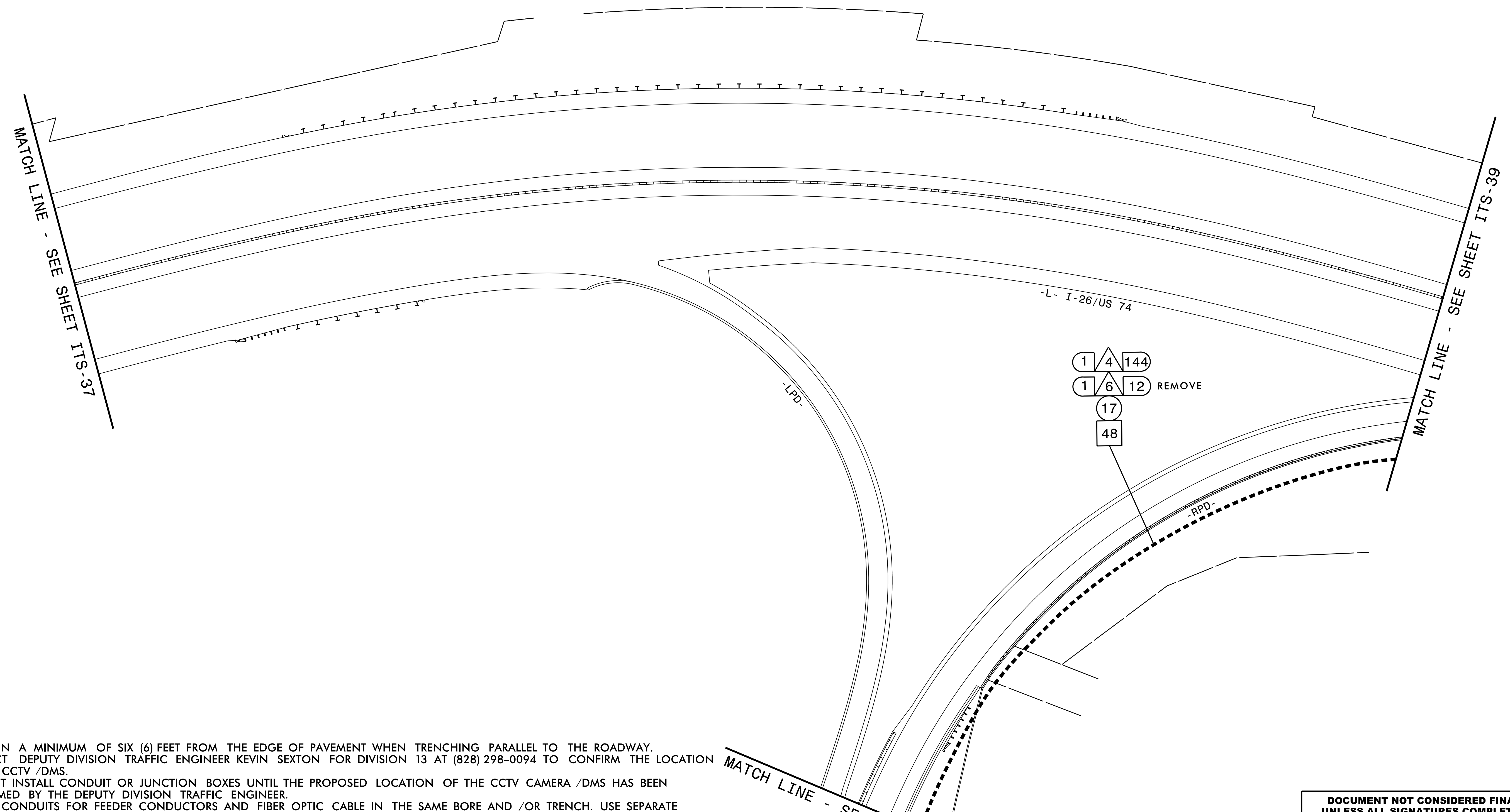
MATCH LINE - SEE SHEET ITS-46

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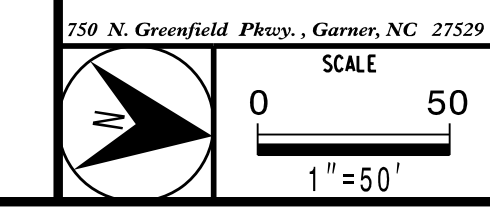
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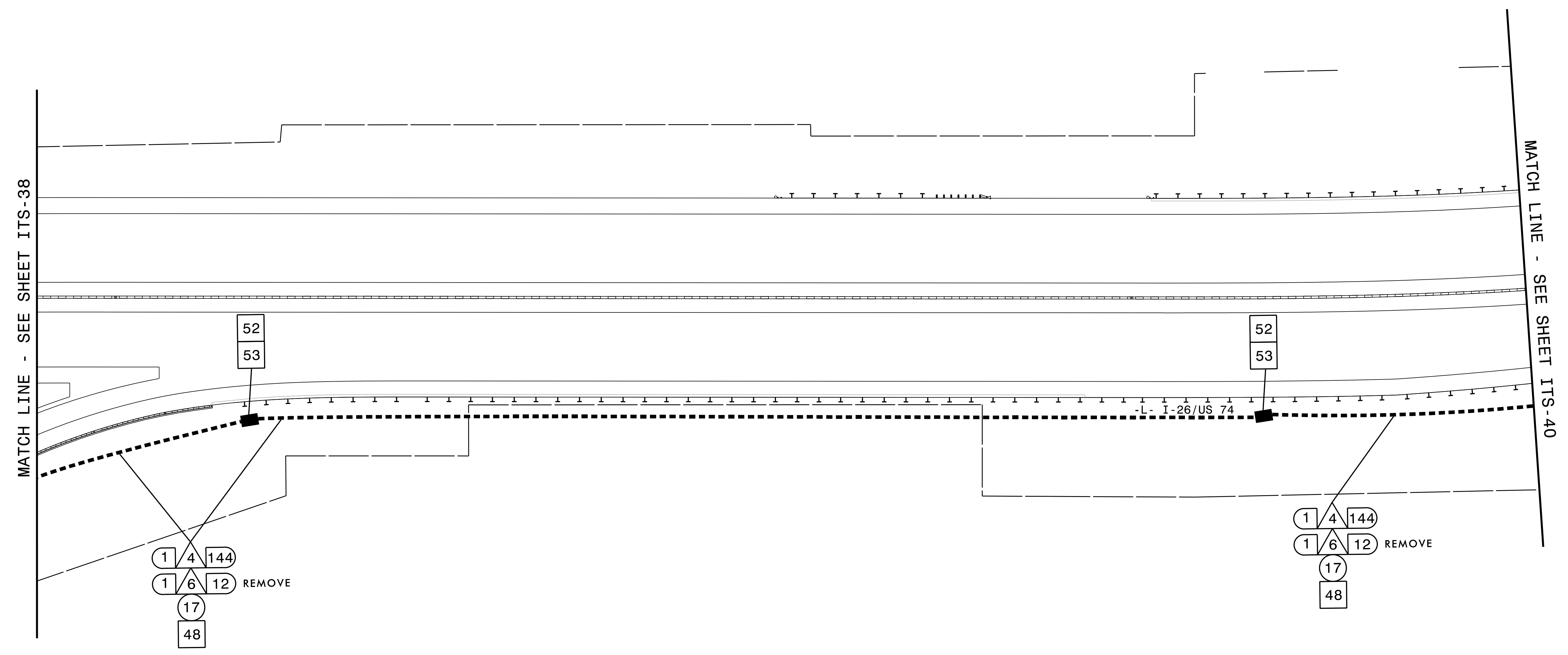
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MATCH LINE - SEE SHEET ITS-46

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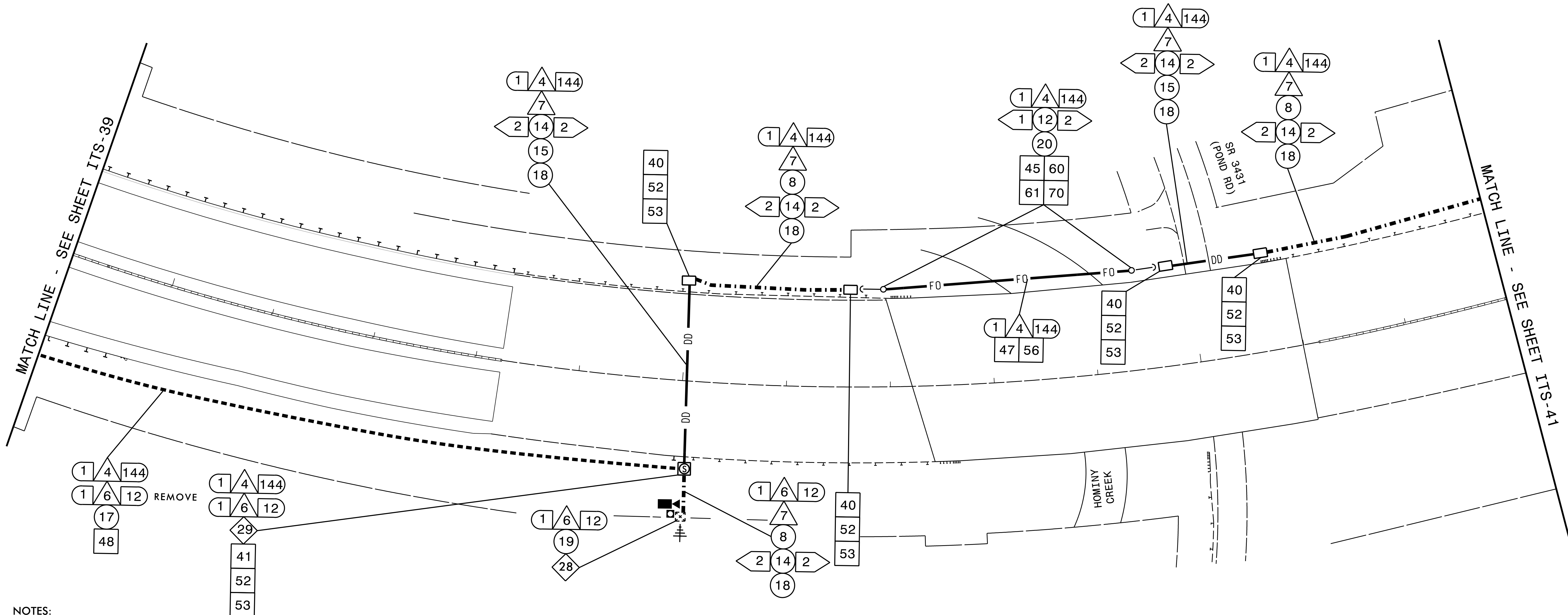
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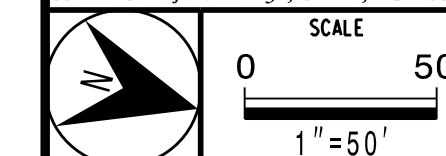
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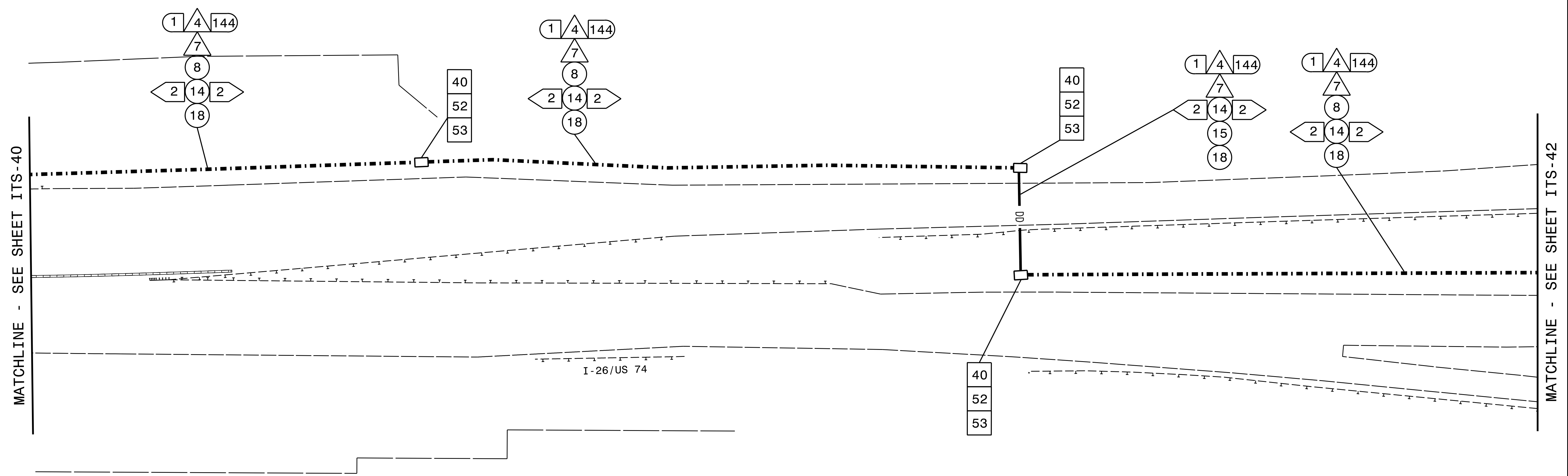
259 N. Greenfield Place, Garner, NC 27529

I-4700 CABLE ROUTING PLAN	
Division 13	Buncombe Asheville
PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell
PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons
REVISIONS	INIT. DATE

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Rakesh Nune
2/28/2019
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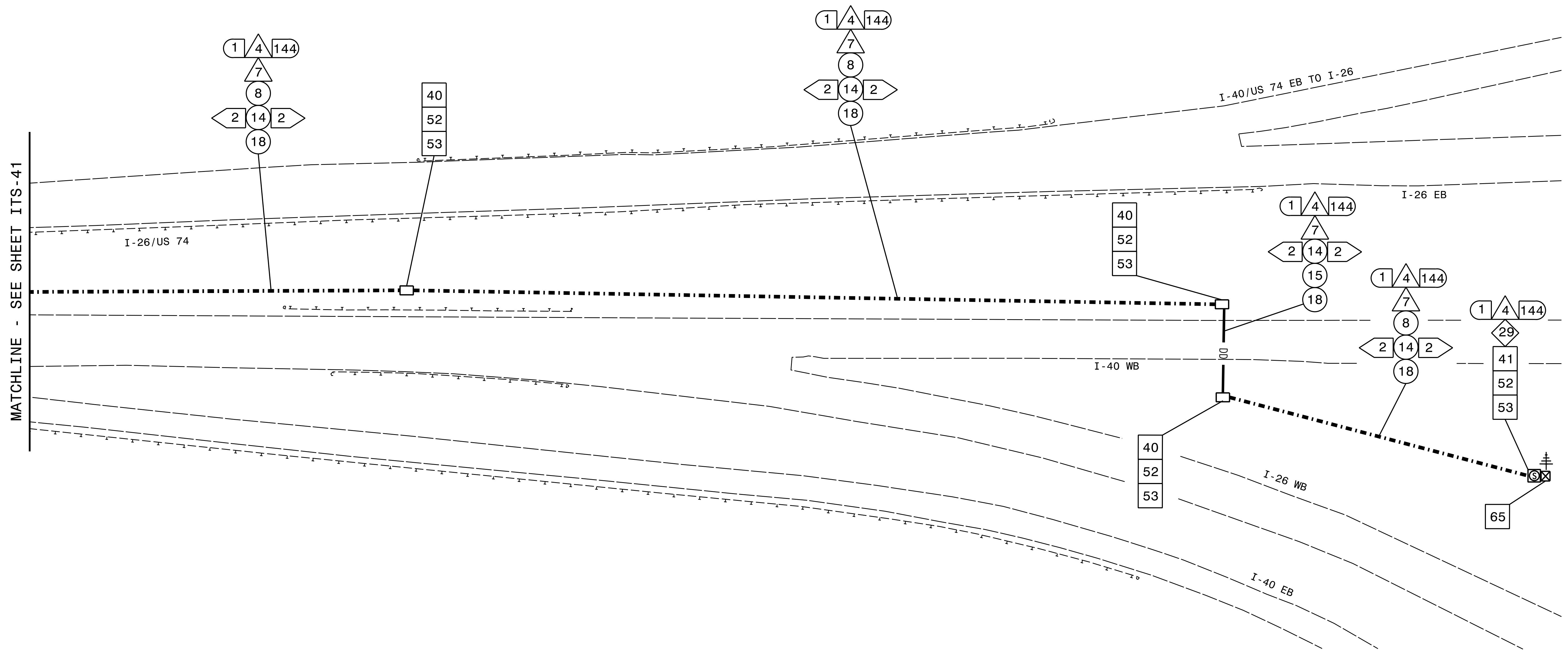
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
2. CONTACT DEPUTY DIVISION TRAFFIC ENGINEER KEVIN SEXTON FOR DIVISION 13 AT (828) 298-0094 TO CONFIRM THE LOCATION OF THE CCTV /DMS.
3. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA /DMS HAS BEEN CONFIRMED BY THE DEPUTY DIVISION TRAFFIC ENGINEER.
4. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN THE SAME BORE AND /OR TRENCH. USE SEPARATE CONDUITS, RED FOR POWER AND ORANGE FOR COMMUNICATIONS.
5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
10. CONTACT DUKE ENERGY AT (800) 653-5307 TO ARRANGE FOR ELECTRICAL SERVICE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE 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 AVAILABLE FAULT CURRENT ON THE STICKER.

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	I-4700 CABLE ROUTING PLAN								
	Division 13	Buncombe		Asheville					
<small>Plans Prepared for:</small> 	PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell	<small>DocuSigned by:</small> 						
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	SCALE 0 50 1"=50'	<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				<small>SIGNATURE</small> <small>DATE</small>
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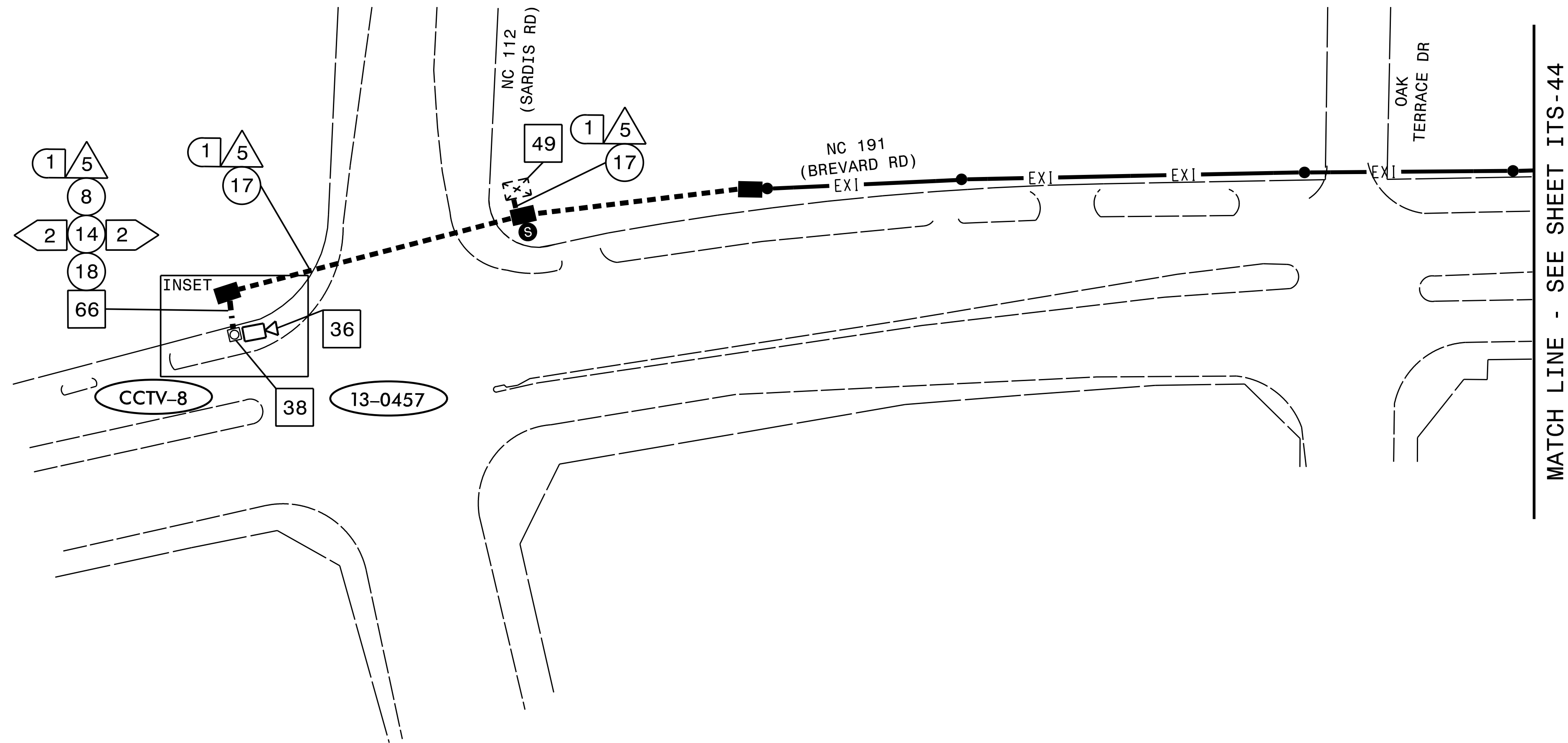
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5. DO NOT INSTALL ELECTRICAL POWER CONDUCTORS AND FIBER-OPTIC CABLE INSIDE THE SAME JUNCTION BOX.
6. MOUNT THE CCTV CAMERA 45' ABOVE GRADE.
7. MOUNT THE CCTV CAMERA 5' BELOW THE TOP OF THE POLE.
8. INSTALL A NEW DMS, WALKWAY, LADDER, AND POLE-MOUNTED CABINET ON THE NEW DMS STRUCTURE.
9. INSTALL A LEVEL CONCRETE TECHNICIAN PAD MEASURING A MINIMUM OF 4 INCHES THICK, 24 INCHES WIDE AND 36 INCHES LONG AT THE FRONT DOOR OF THE CCTV /DMS EQUIPMENT CABINET. SEE TYPICAL DETAILS SHEET.
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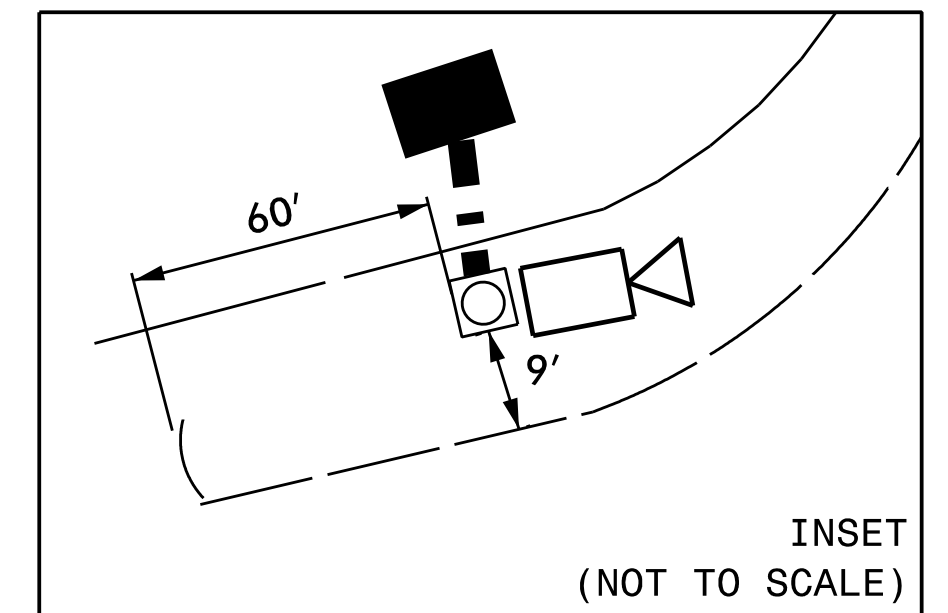
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	I-4700 CABLE ROUTING PLAN		
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259 N. Greenfield Place, Garner, NC 27529	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons	Date Signed: 2/28/2019 Signature: Rakesh Nune
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MATCH LINE - SEE SHEET ITS-44



NOTES:

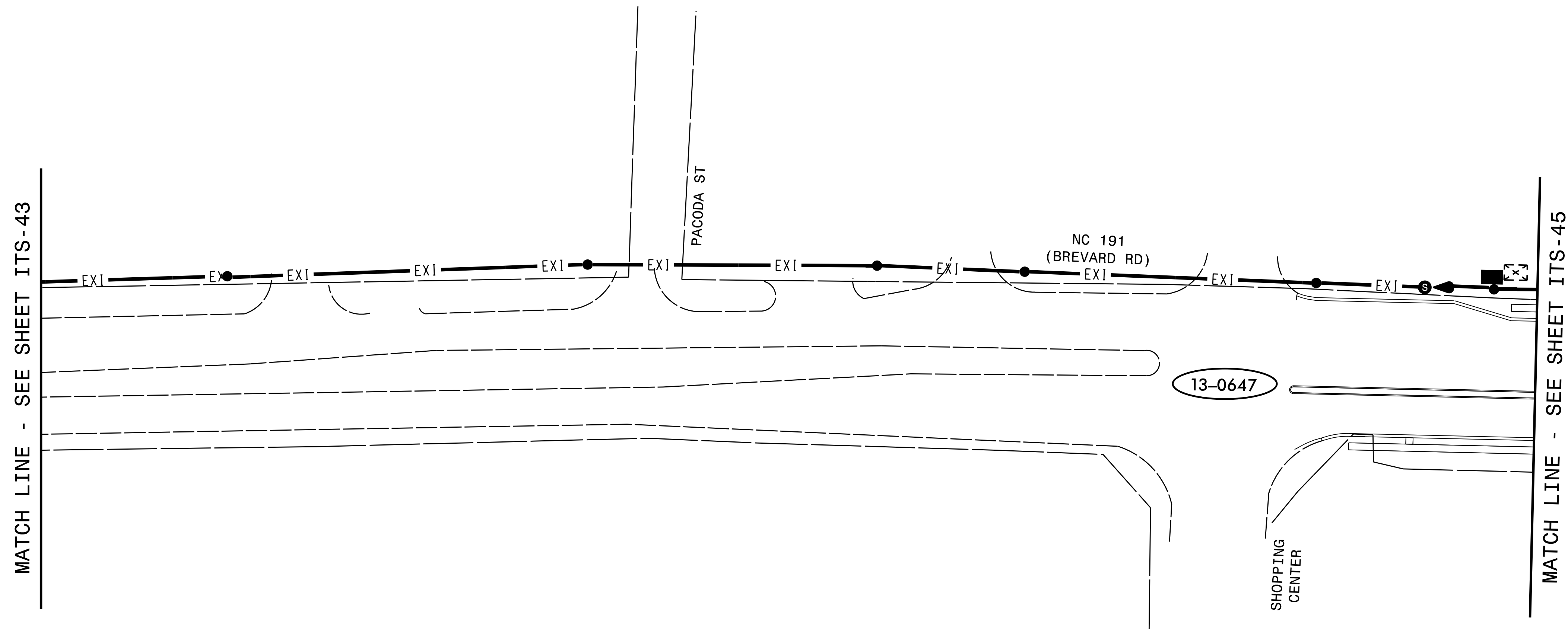
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 <small>250 N. Greenfield Place, Garner, NC 27529</small>	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville		
PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell		PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	
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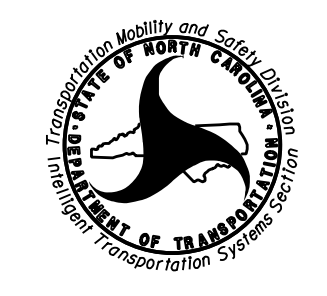



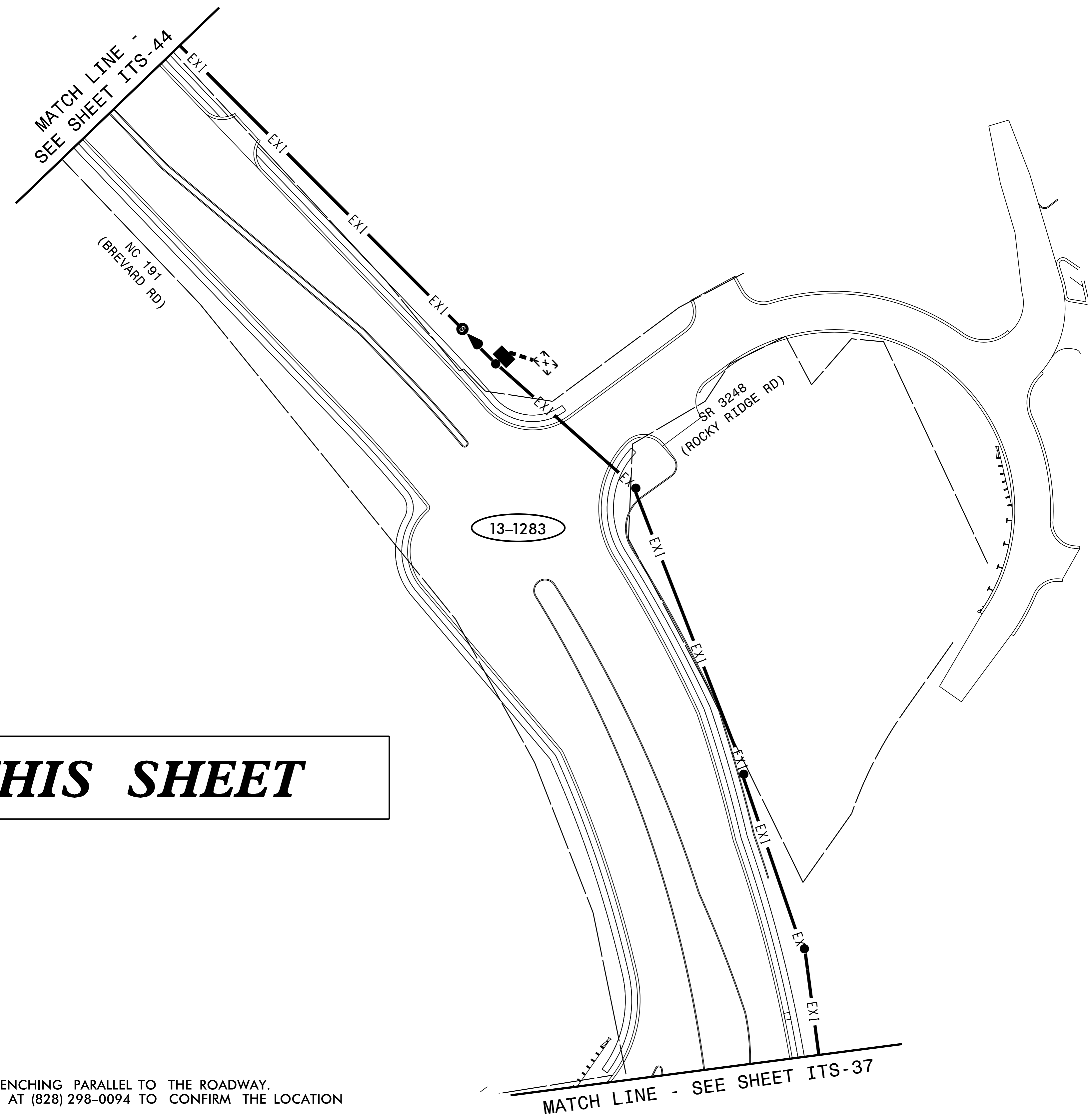
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 Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	I-4700 CABLE ROUTING PLAN		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE 048072	
	Division 13 Buncombe Asheville			
250 N. Greenfield Place - Garner, NC 27529	PLAN DATE: November 2018	REVIEWED BY: T.R. Terrell	PREPARED BY: Atizaz Ali	REVIEWED BY: N.R. Simmons
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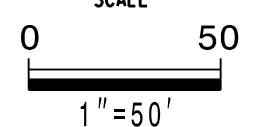
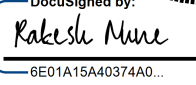
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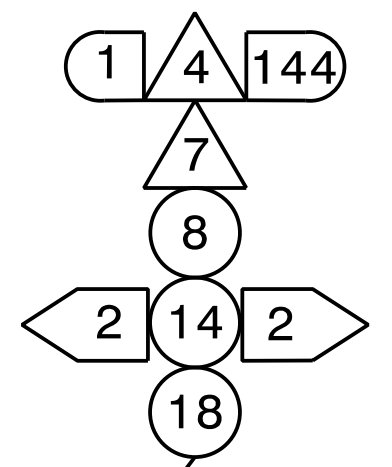
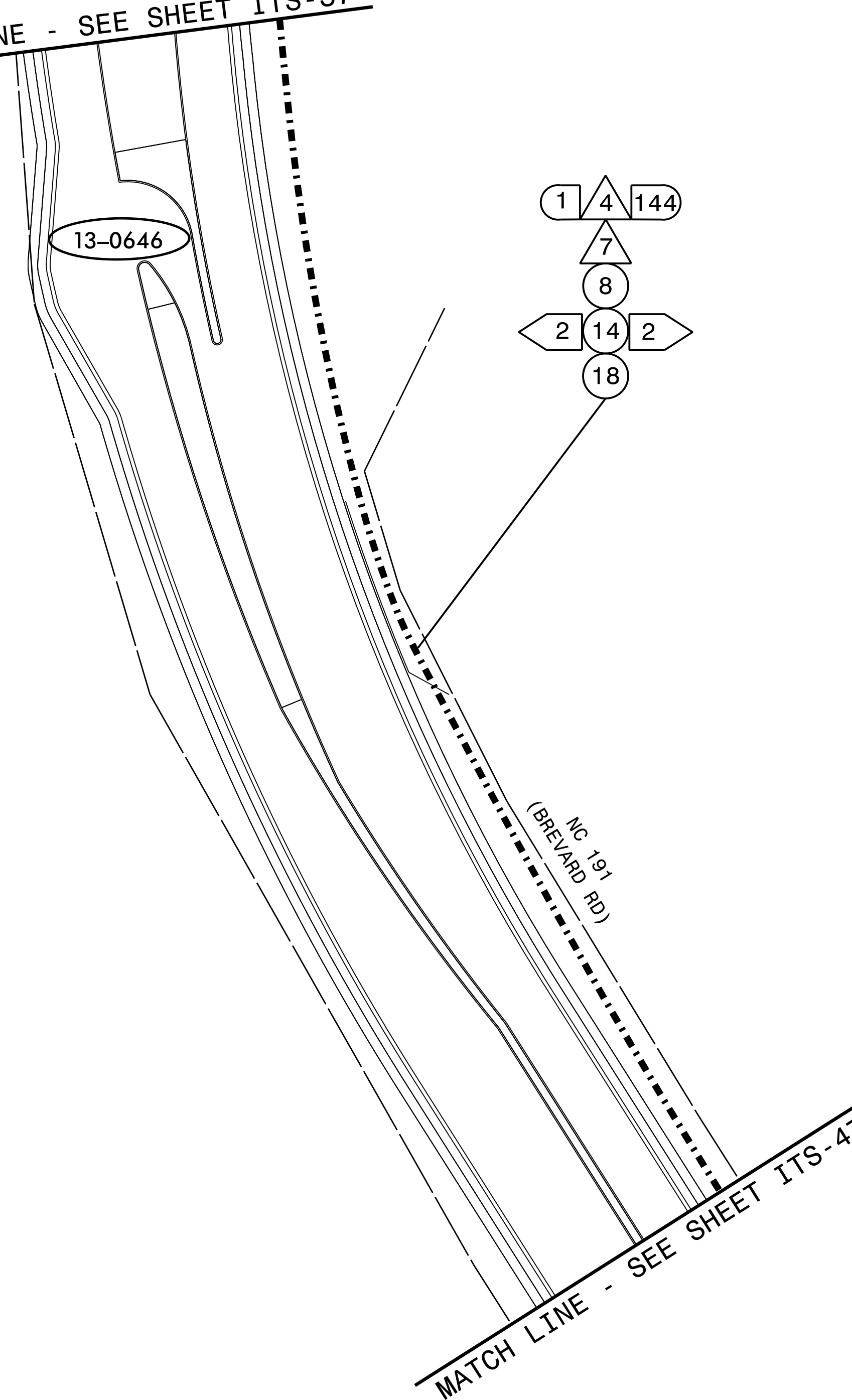
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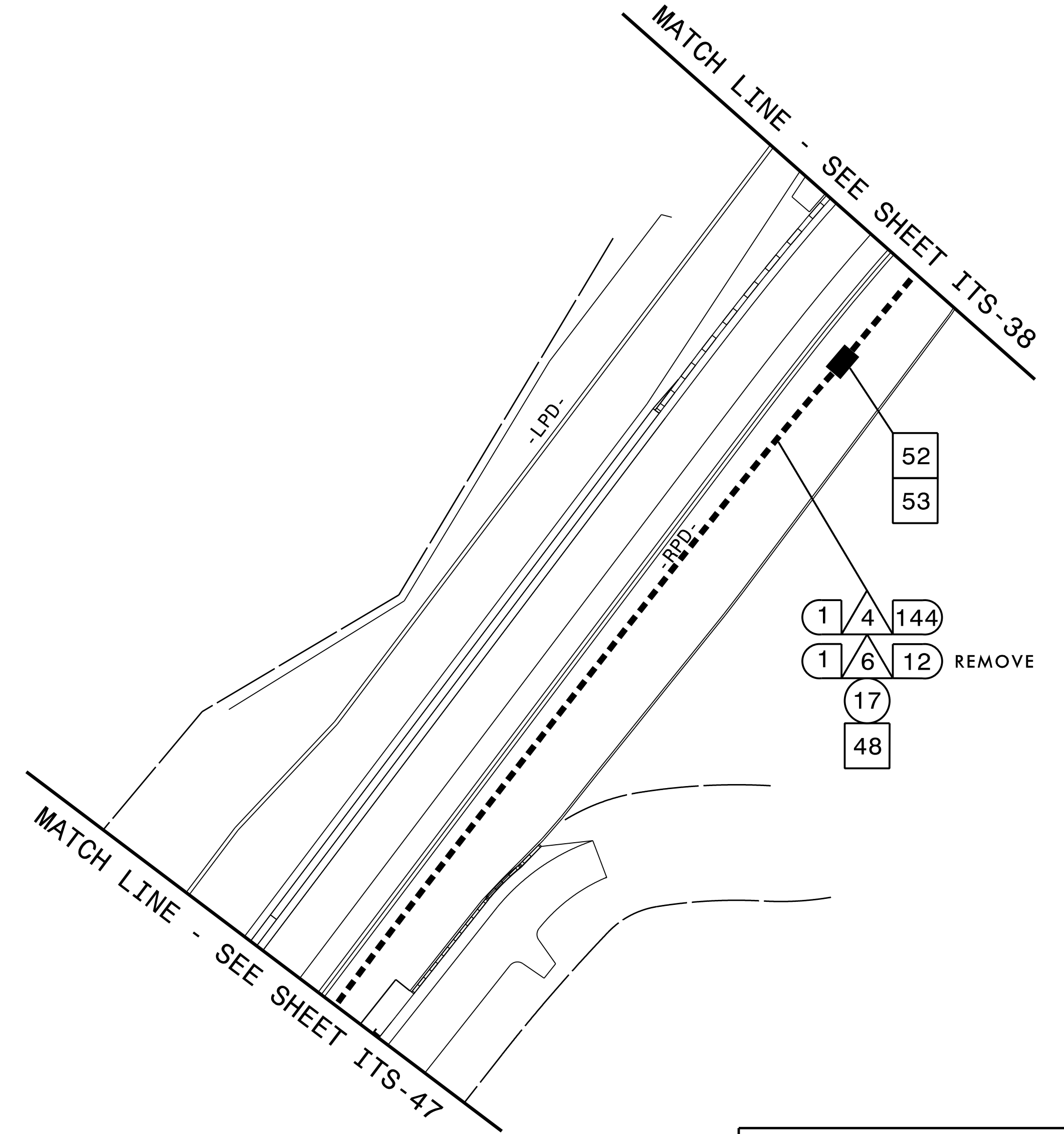
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 <small>Plans Prepared for:</small> <small>250 N. Greenfield Place, Garner, NC 27529</small>	I-4700 CABLE ROUTING PLAN		 <small>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER RAKESH NUNE</small>						
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<small>PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell</small>		<small>PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons</small>							
	<small>SCALE</small>  <small>1"=50'</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <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				<small>DocuSigned by:</small>  <small>2/28/2019</small> <small>SEAL</small> <small>SIGNATURE DATE</small> <small>CADD Filename: I-4700 ITS-45.dgn</small>
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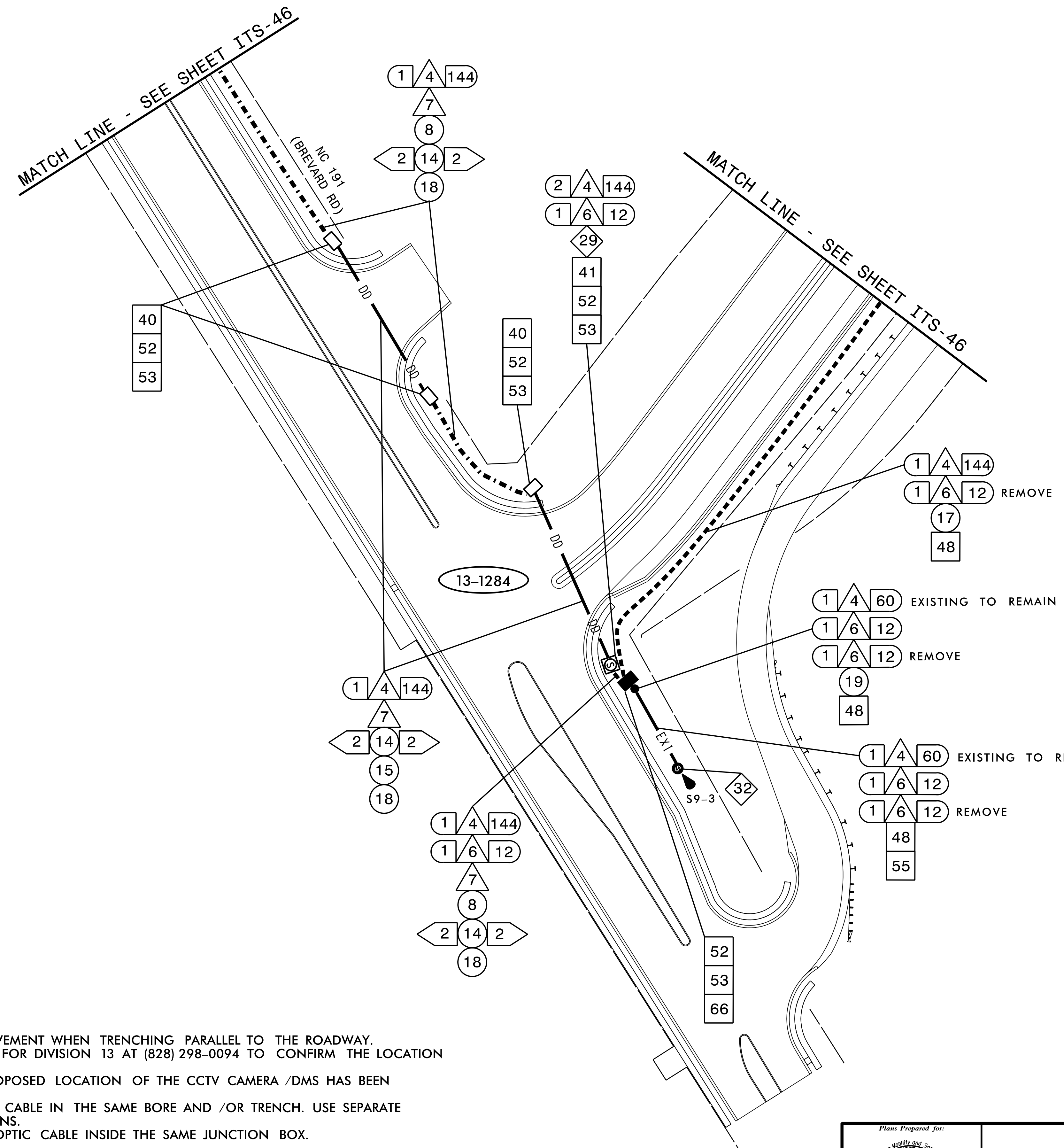
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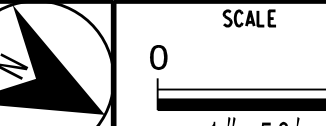


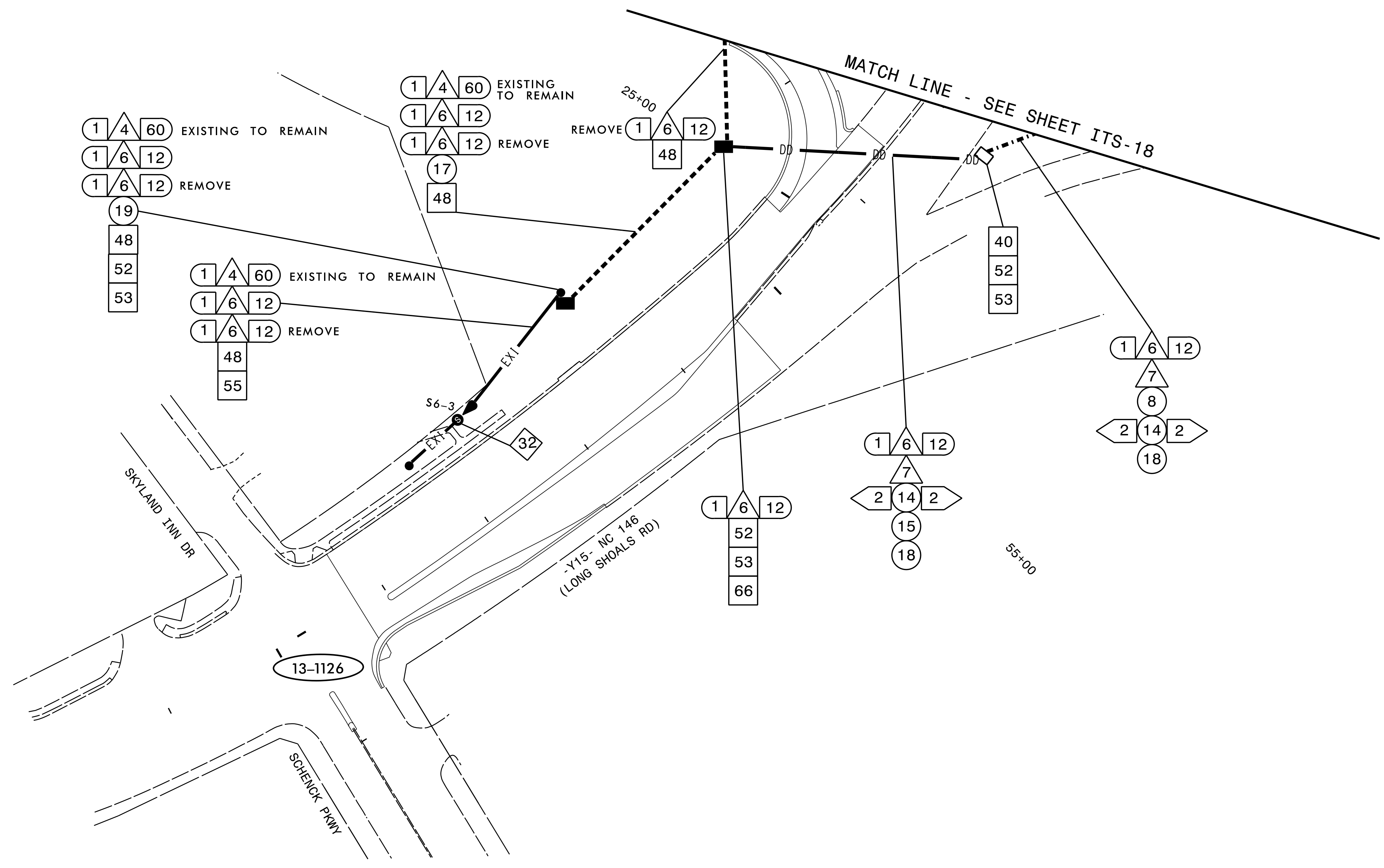
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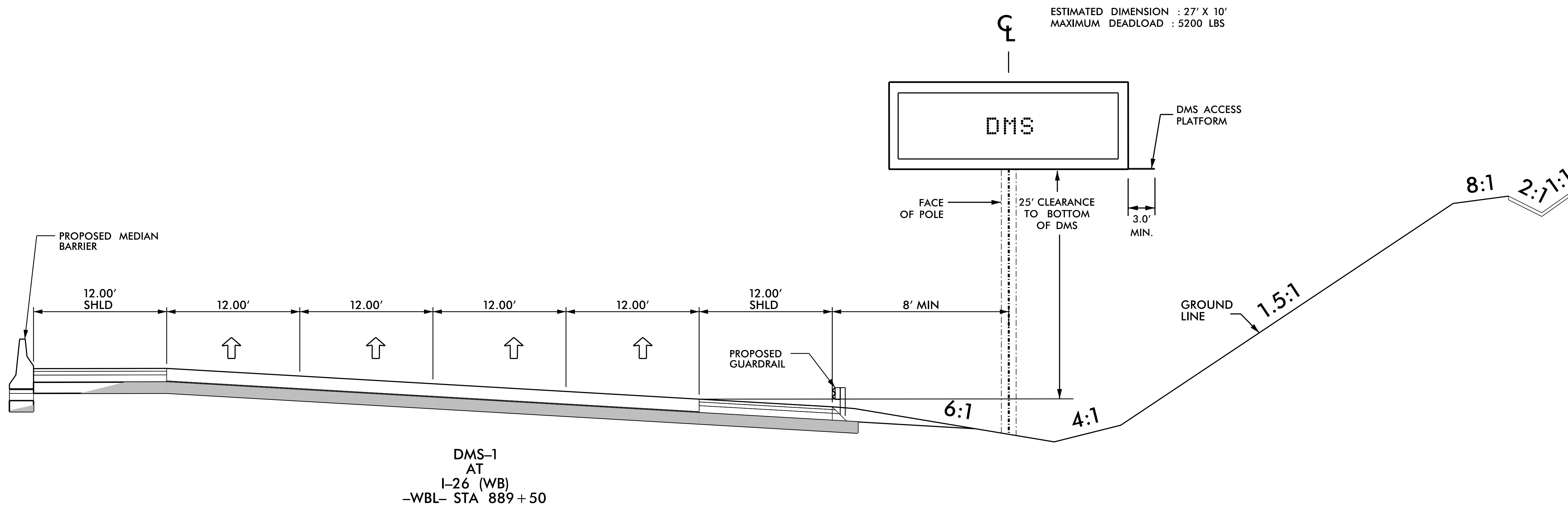
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 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 (919) 546-8997

<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	I-4700 CABLE ROUTING PLAN		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
250 N. Greenfield Place, Garner, NC 27529	SCALE 0 50 1" = 50'	REVISIONS INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD Filename: I-4700 ITS-48.dgn

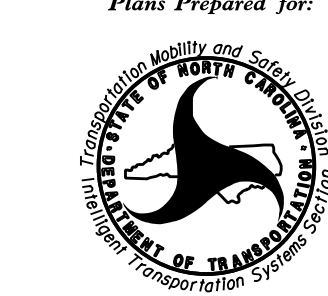



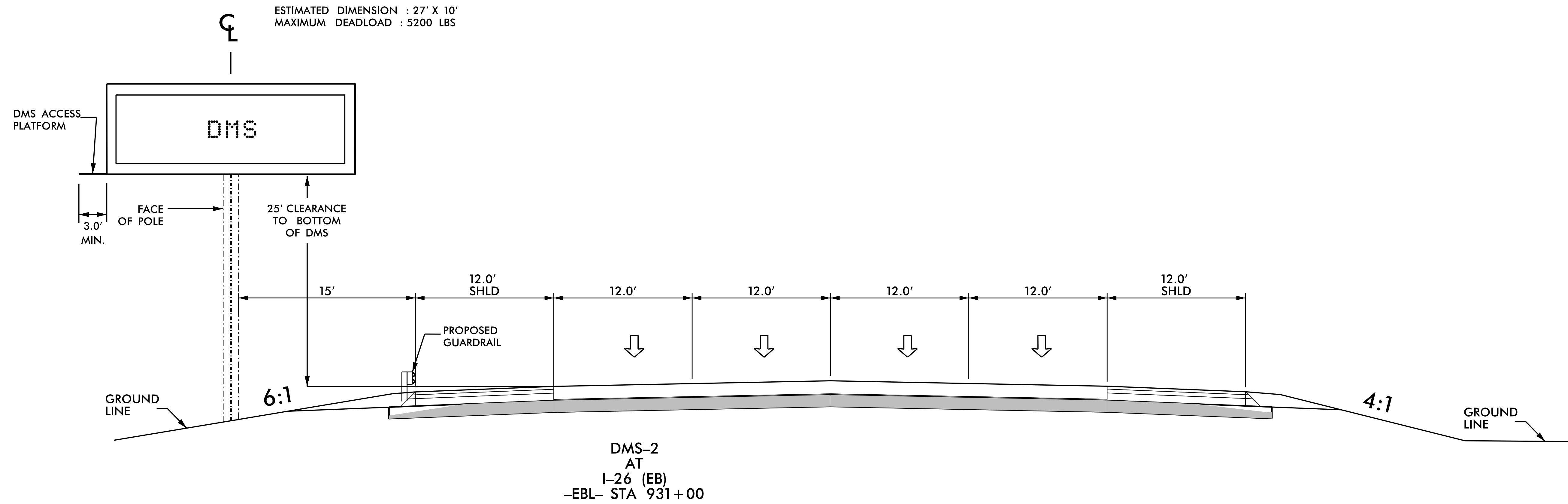
NOTES:

1. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
2. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
3. ENSURE THAT THE TOP OF THE FOOTING EXTENDS AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 130 MPH.
5. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-4700 DMS-1 ELEVATION		SEAL  ENGINEER RAKESH NUNE
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE	REVISIONS	INIT.	DATE
Signed by: <i>Rakesh Nune</i> 2/28/2019		SEAL DATE	
CADD Filename: I-4700 ITS-49.dgn			



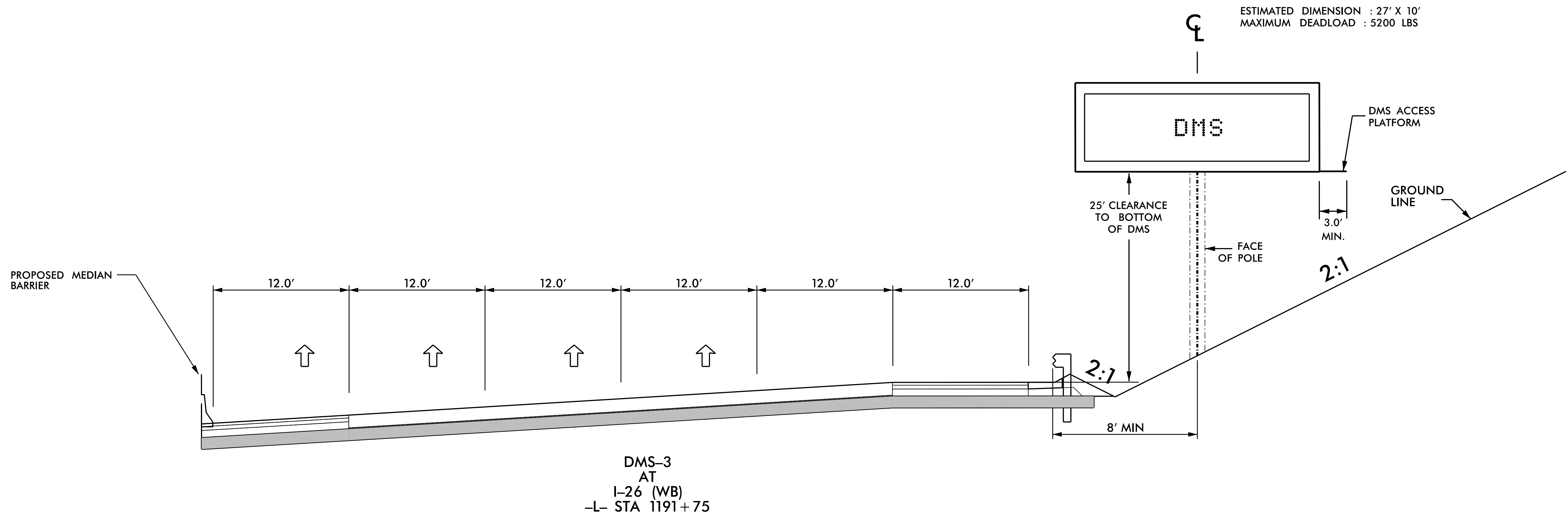
NOTES:

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 (919) 546-8997

	I-4700 DMS-2 ELEVATION		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE	REVISIONS	INIT. DATE	Date Signed by: Rakesh Nune 2/28/2019 CADD File name: I4700 ITS-50.dgn

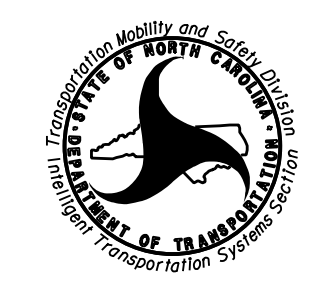



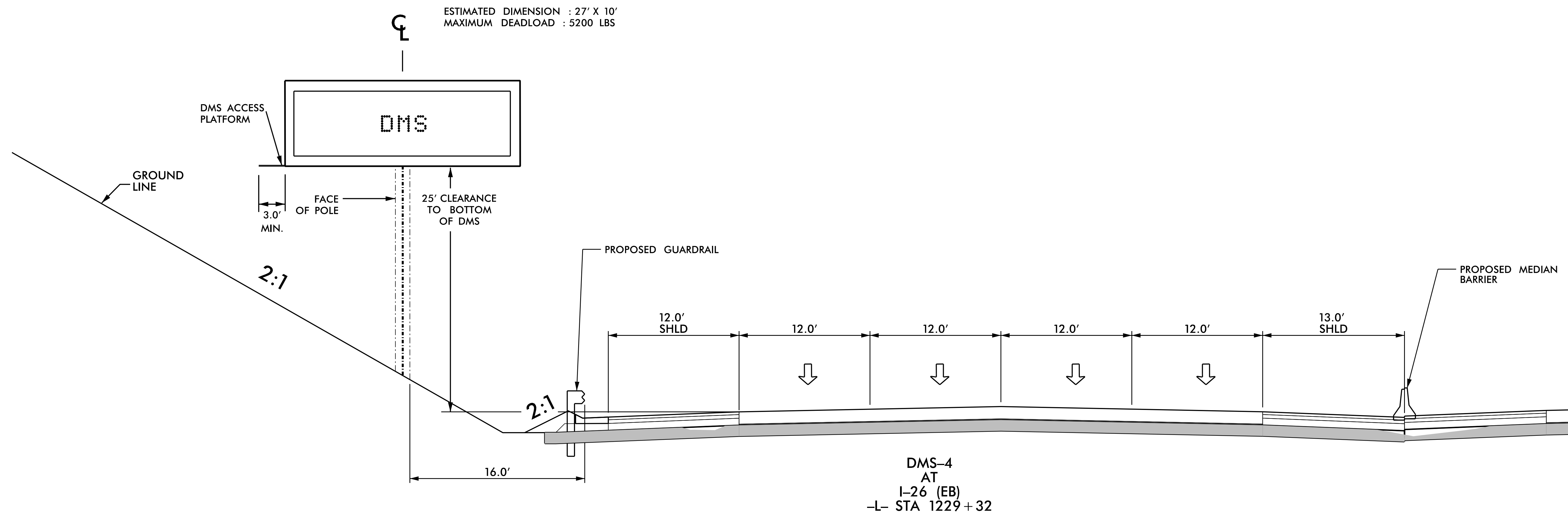
NOTES:

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529	I-4700 DMS-3 ELEVATION		SEAL  RAKESH NUNE
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE	REVISIONS	INIT.	DATE
DocuSigned by: Rakesh Nune 2/28/2019			SEAL DATE
CADD Filename: I4700 ITS-51.dgn			



NOTES:

1. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
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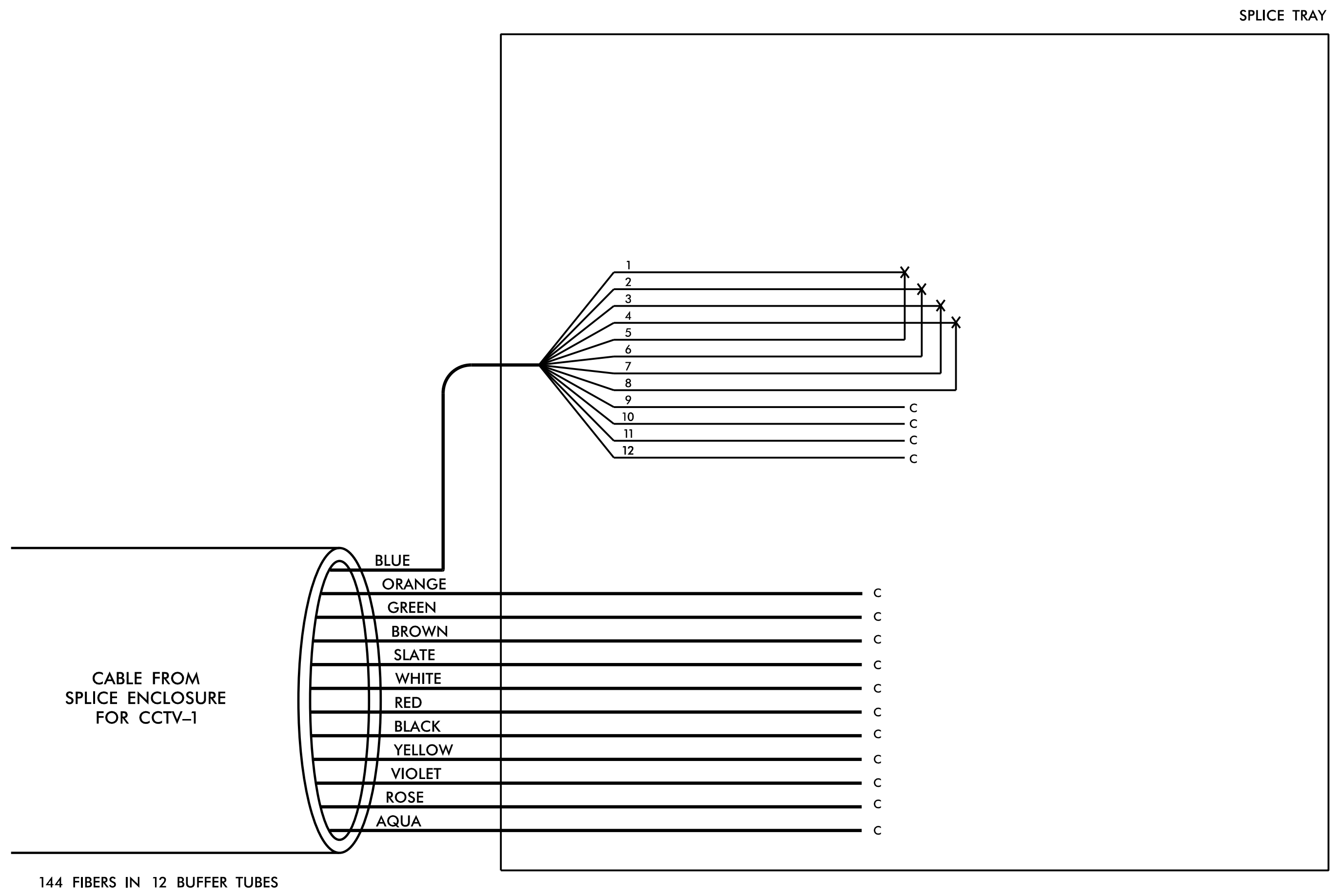
DOCUMENT NOT CONSIDERED FINAL
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	I-4700 DMS-4 ELEVATION		
	Division 13 Buncombe Asheville	PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell	
SCALE	REVISIONS	INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD File name: I4700 ITS-52.dgn

TERMINATION SPLICE ENCLOSURE
I-26 (EB)
AT
-L- STA. 832+00

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X =	NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● =	EXISTING FUSION SPLICE	
(3) GREEN	(9) YELLOW	C =	CAP AND SEAL	
(4) BROWN	(10) VIOLET	EXPRESS	EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING	
(5) SLATE	(11) ROSE	BUFFER SPLICE	SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR	
(6) WHITE	(12) AQUA			



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
3. TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

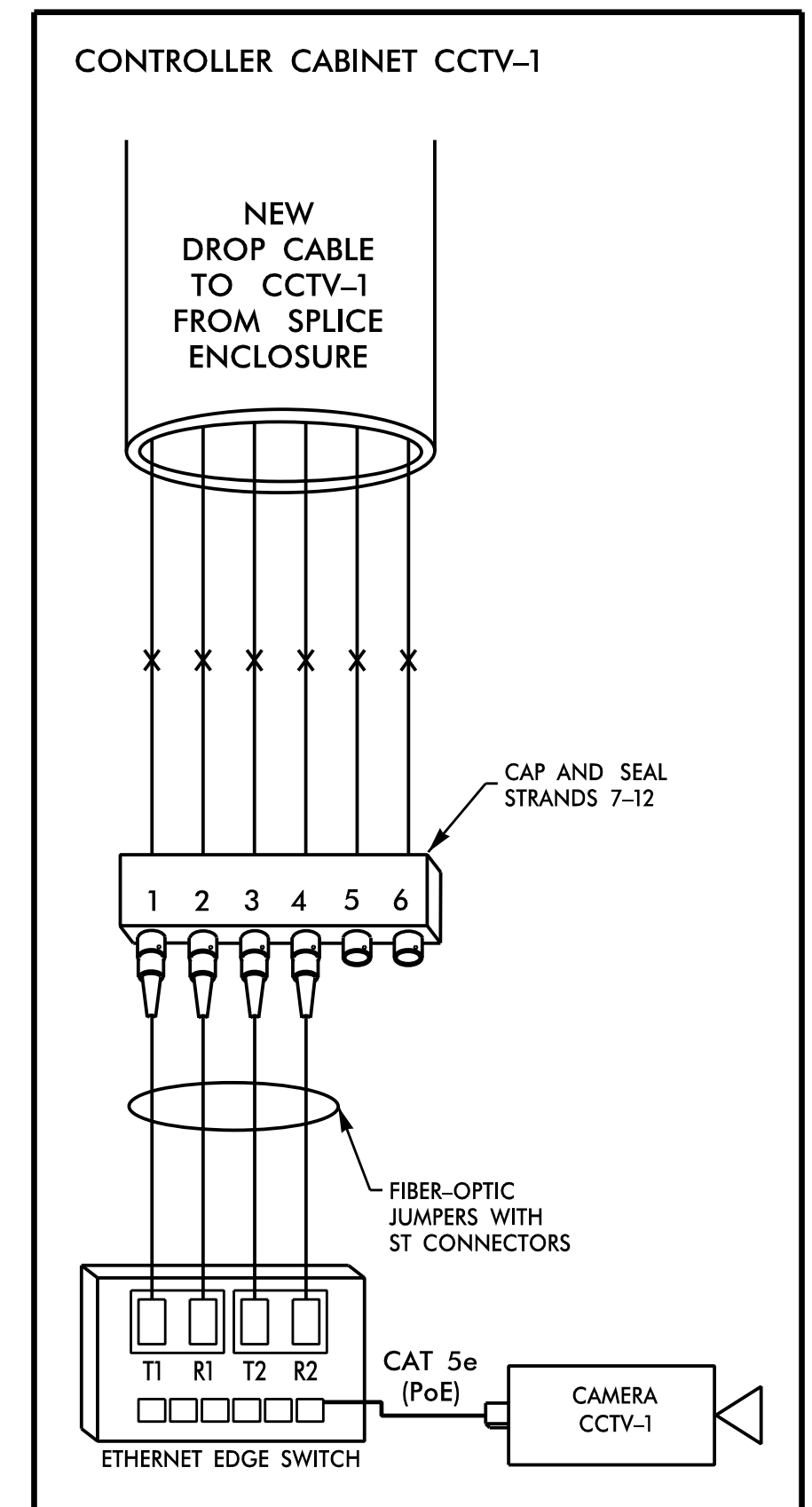
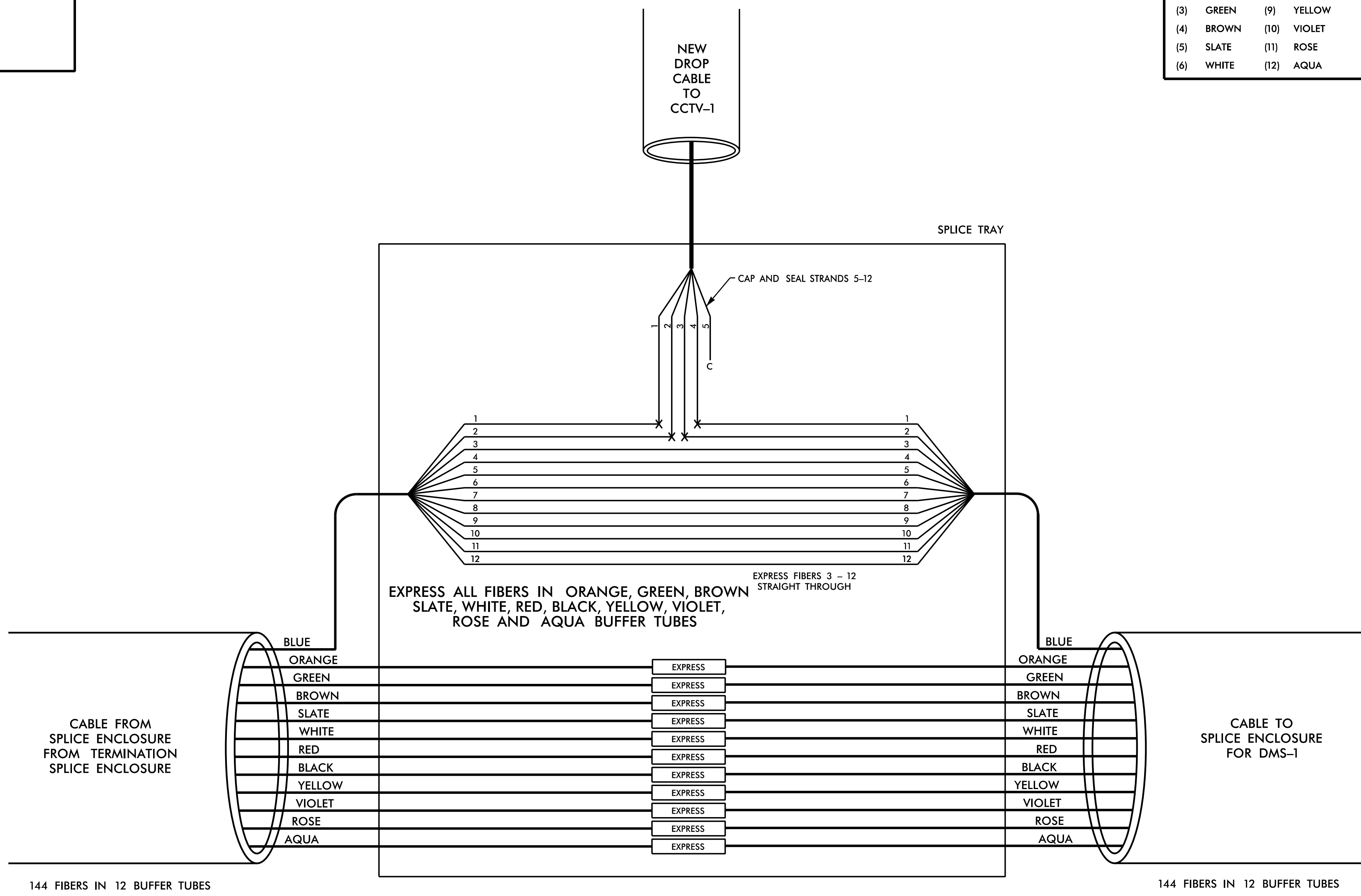
- (1) SPLICE
- (2) DATE
- (3) COMPANY NAME
- (4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	I-4700 ITS DEVICES SPLICE DETAILS		
	Division 13 Buncombe Asheville		
PLAN DATE: November 2018 PREPARED BY: Atizaz Ali	REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons		
SCALE NONE	REVISIONS	INIT. DATE	DocuSigned by: Rakesh Nune 2/28/2019 SIGNATURE DATE CADD Filename: I4700 ITS-53.dgn

CCTV-1
I-26 (EB)
AT
-Y13RPA- STA. 24+85
NC 280 AIRPORT RD

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
(3) GREEN	(9) YELLOW	C = CAP AND SEAL		
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING		
(5) SLATE	(11) ROSE	BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR		
(6) WHITE	(12) AQUA			



NOTES:

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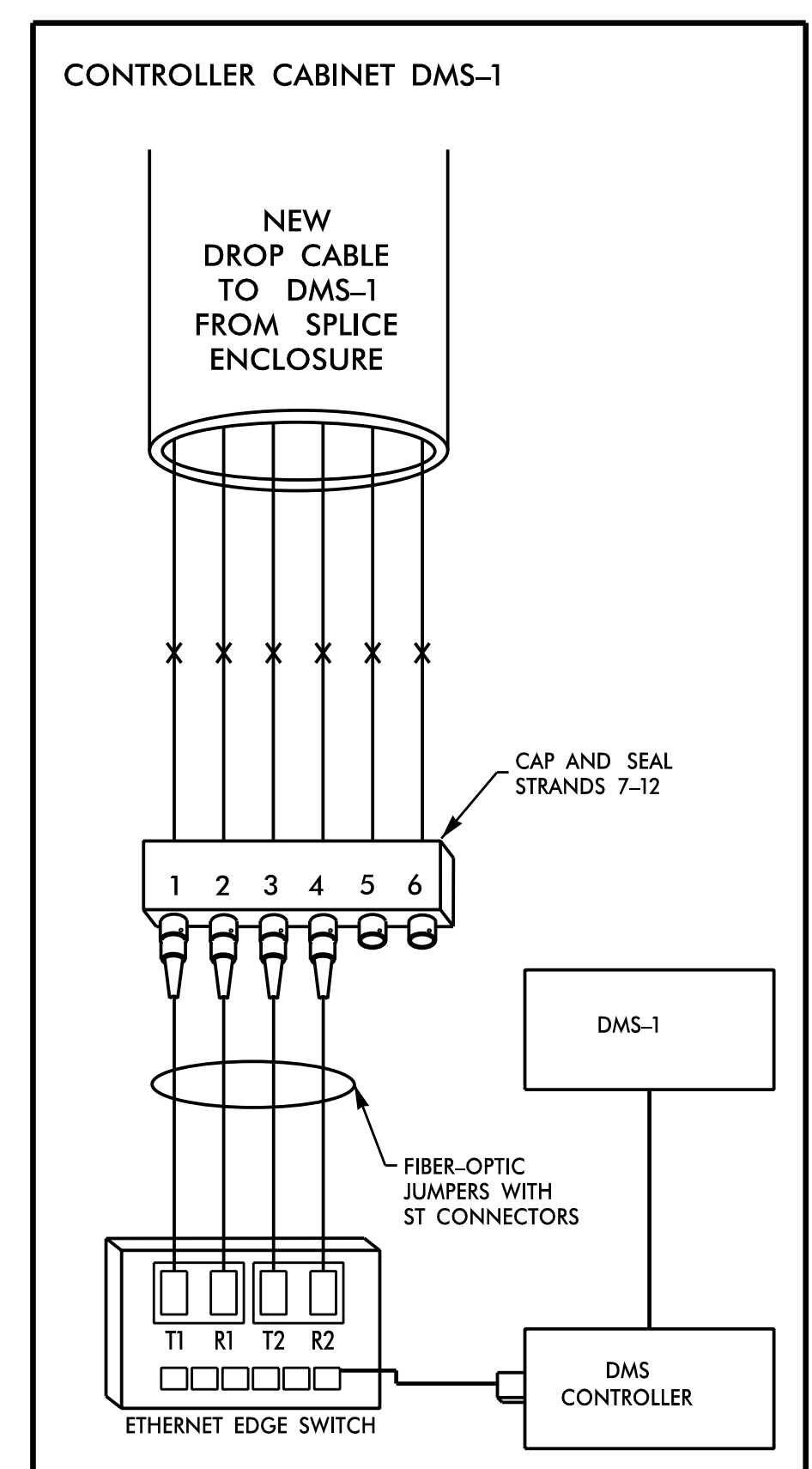
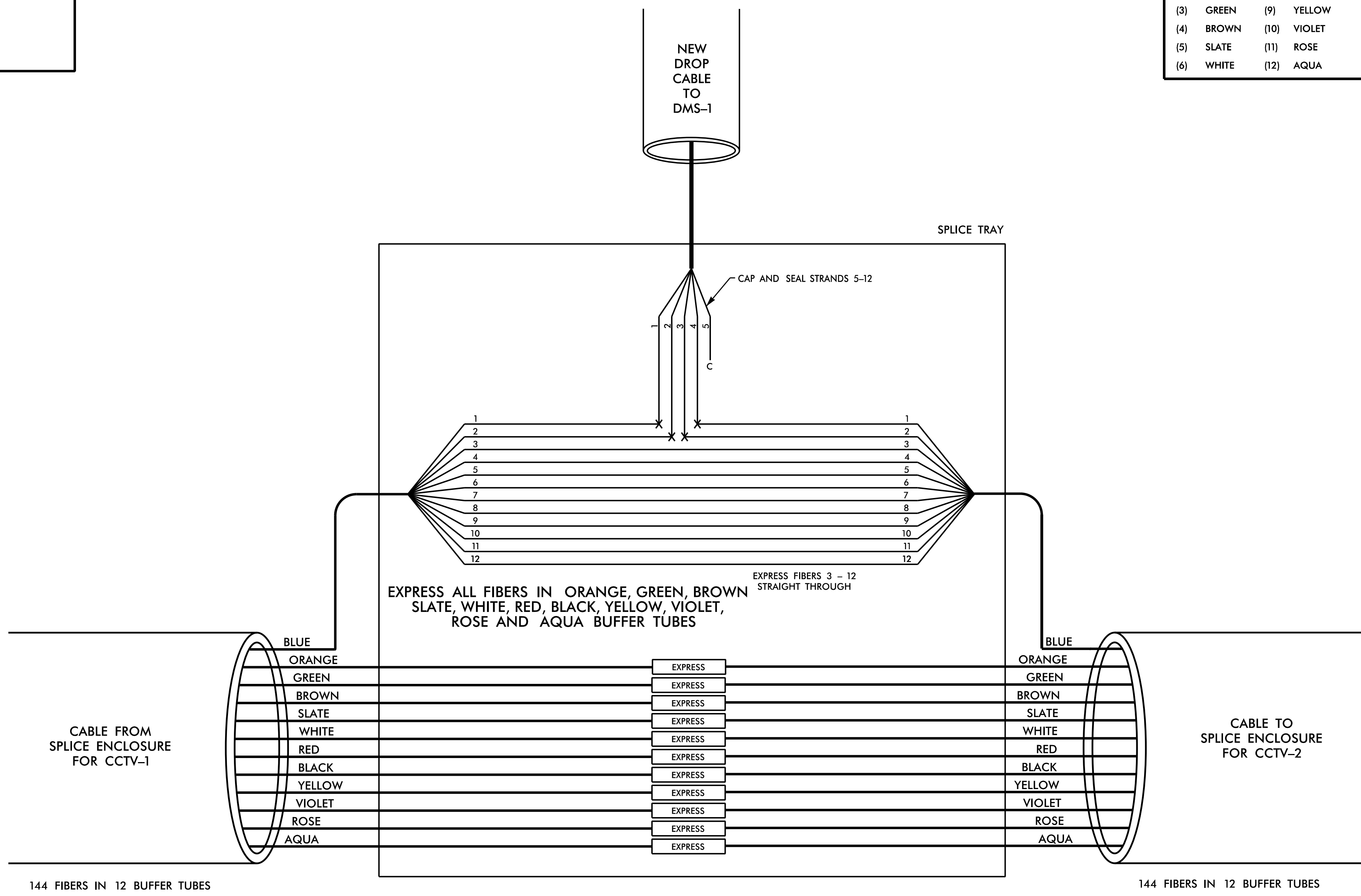
- (1) SPLICE
- (2) DATE
- (3) COMPANY NAME
- (4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529</p>	I-4700 ITS DEVICES SPLICE DETAILS		
	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	SCALE: NONE	
REVISIONS:		INITI.:	DATE: 2/28/2019
ADD FILENAME: I-4700 ITS-54.dgn		SIGNATURE:	DATE:

DMS-1
I-26 (WB)
AT
-WBL- STA 889 + 50

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
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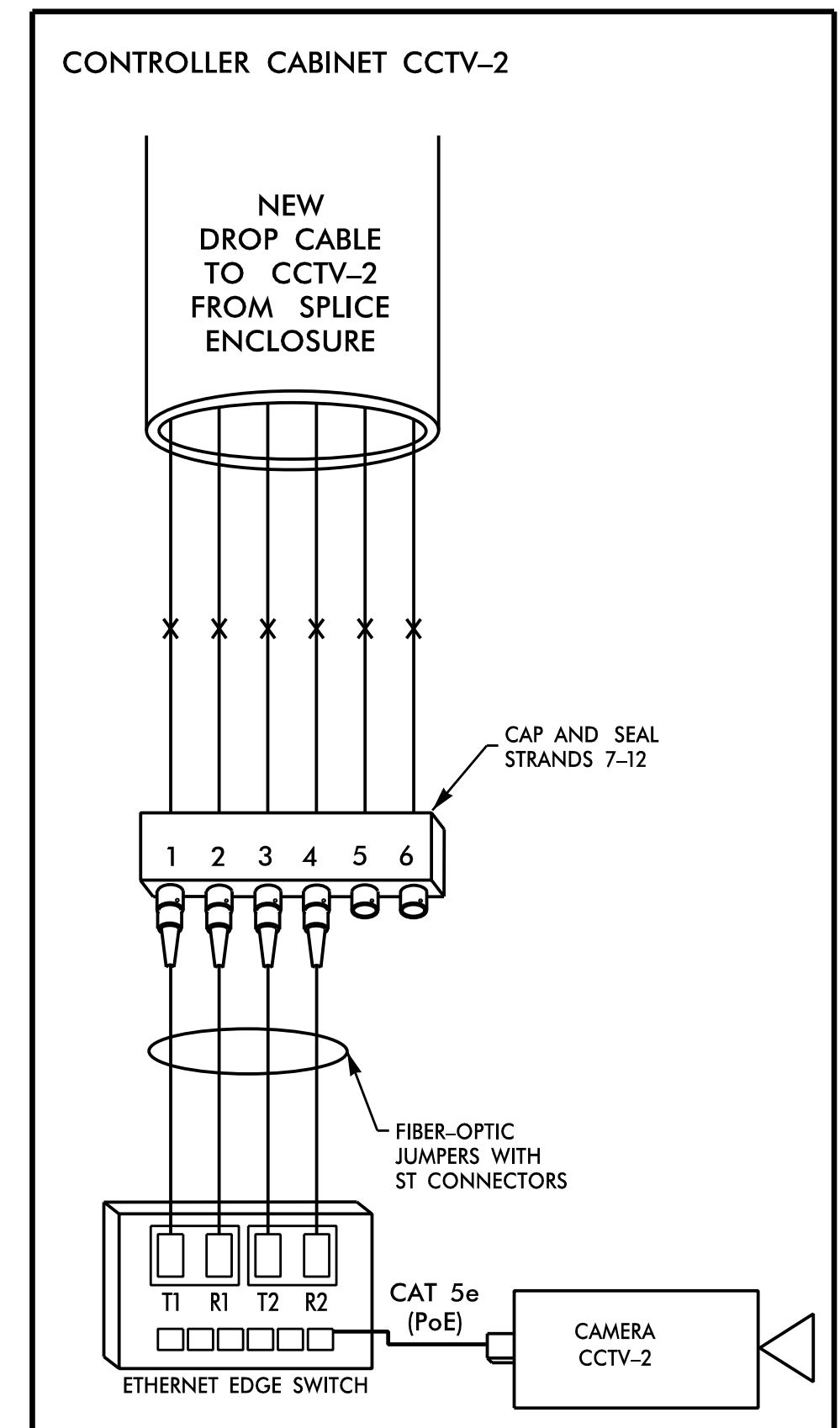
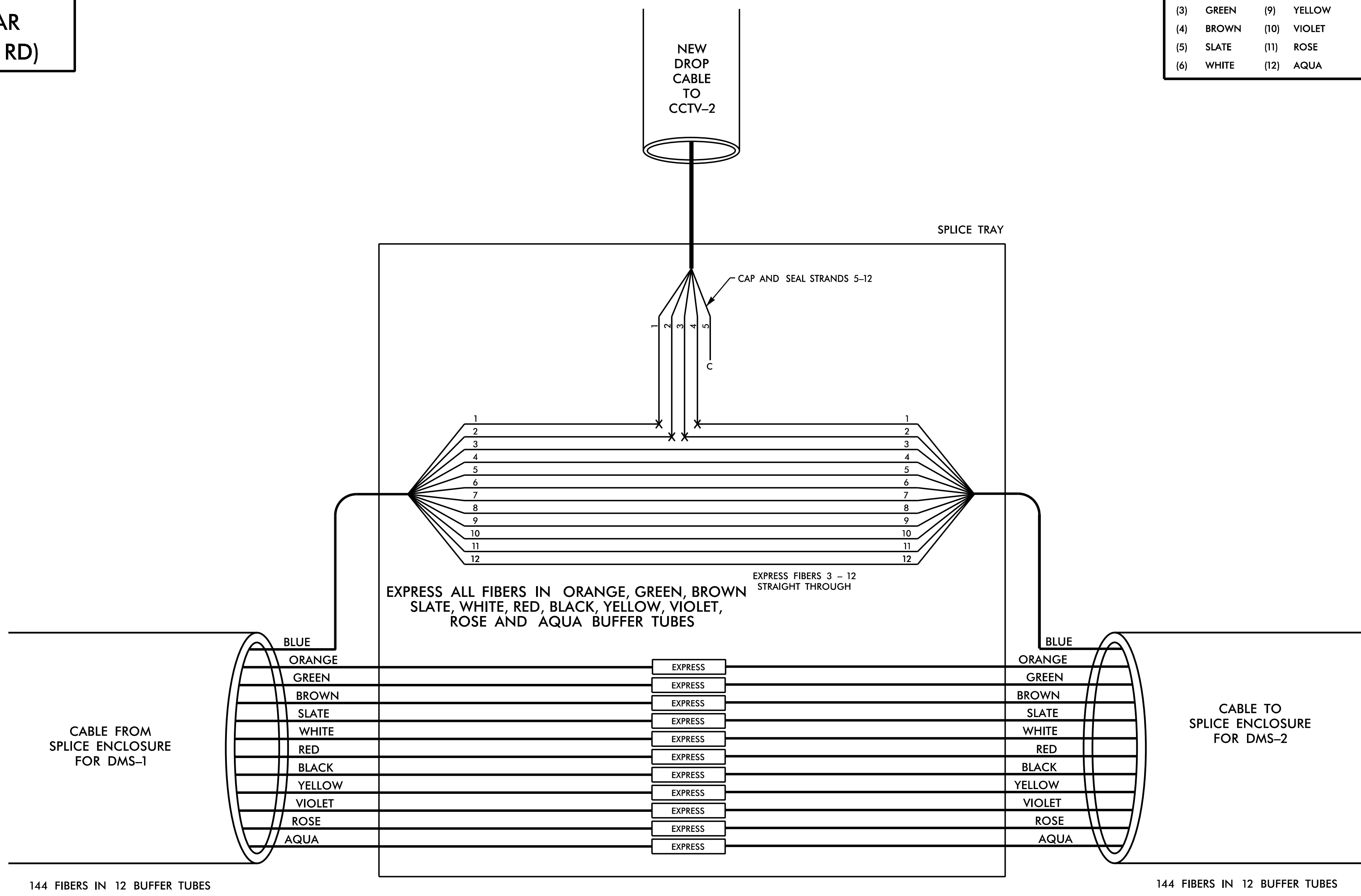
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<p>Plans Prepared for: STATE OF NORTH CAROLINA Department of Transportation</p> <p>250 N. Greenfield Place, Garner, NC 27529</p>	<p>I-4700 ITS DEVICES SPLICE DETAILS</p>		<p>SEAL</p> <p>SEAL 048072 ENGINEER RAKESH NUNE</p>
	<p>Division 13 Buncombe Asheville</p> <p>PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons</p>	<p>DocuSigned by: Rakesh Nune 2/28/2019</p> <p>SCALE: NONE</p>	

CCTV-2
I-26
AT
-EBL- STA. 917+22 NEAR
SR 3495 (GLEN BRIDGE RD)

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
(3) GREEN	(9) YELLOW	C = CAP AND SEAL		
(4) BROWN	(10) VIOLET	EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING		
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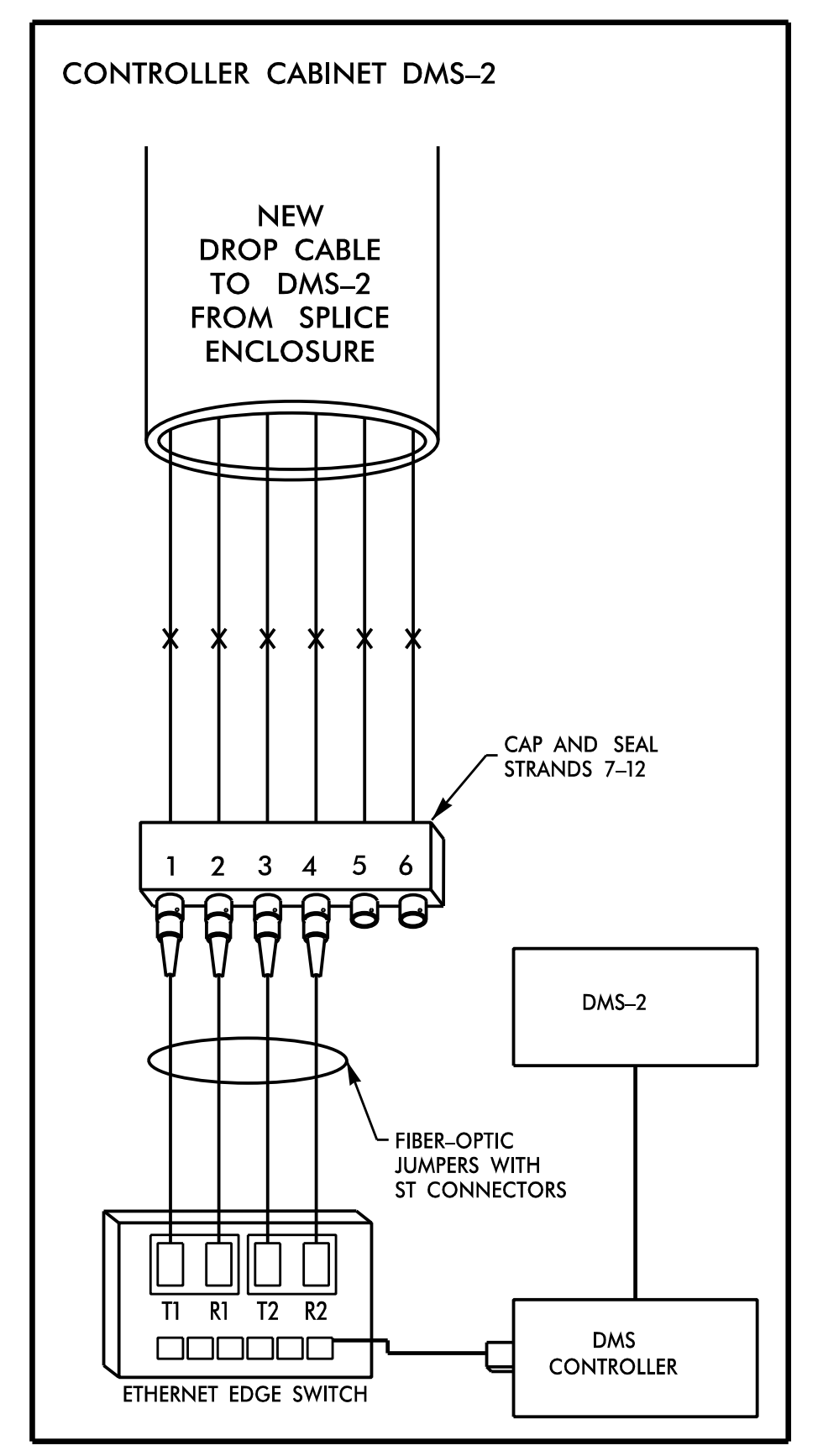
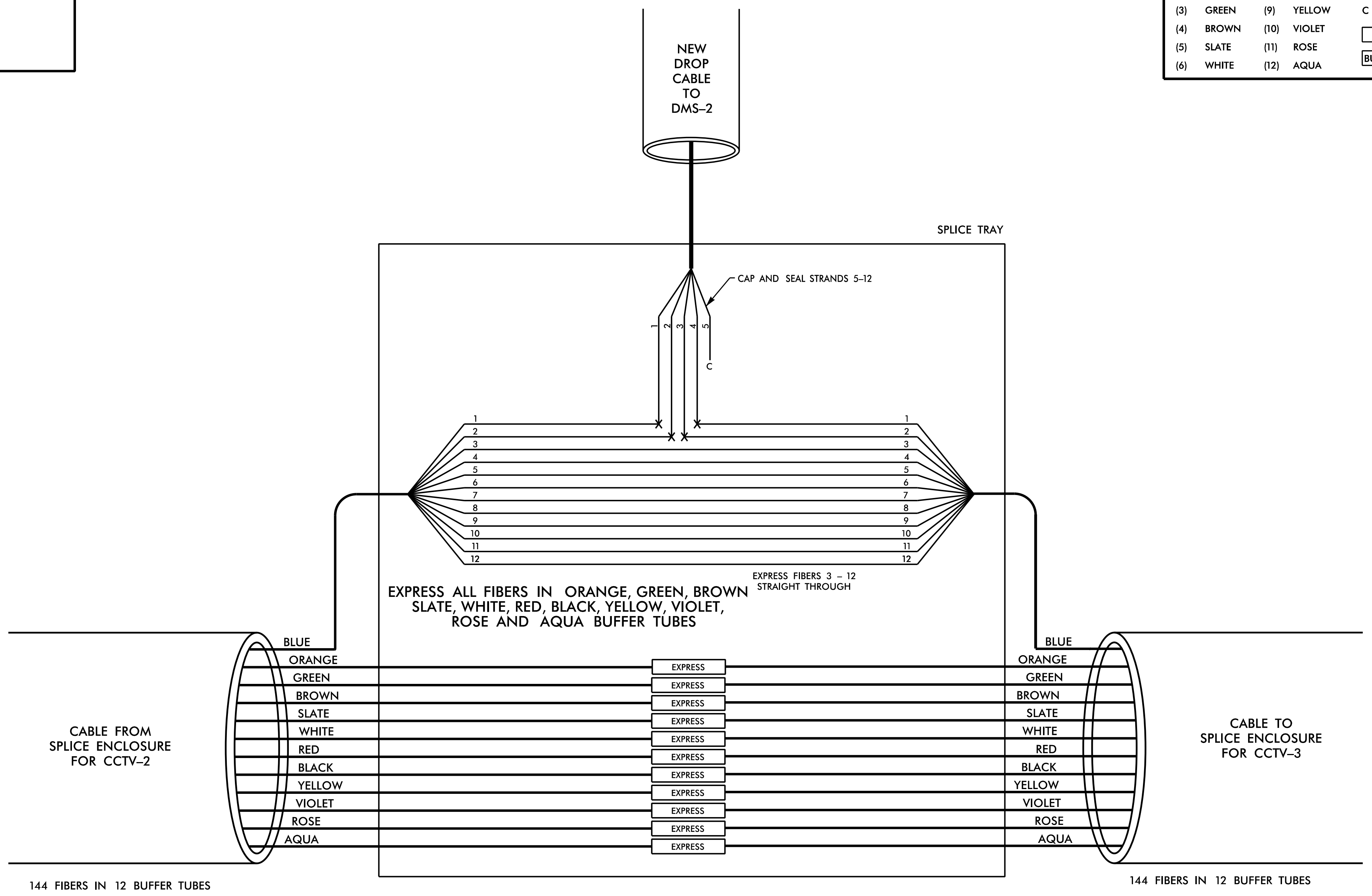
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<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529</p>	I-4700 ITS DEVICES SPLICE DETAILS		
	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	SCALE: NONE	
REVISIONS:		INITI.:	DATE: 2/28/2019
SIGNATURE:		DATE:	
ADD FILENAME: I-4700 ITS-56.dgn			

DMS-2
I-26 (EB)
AT
-EBL- STA 931+00

COLOR CODE TIA/EIA 598-C			LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER		
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE		
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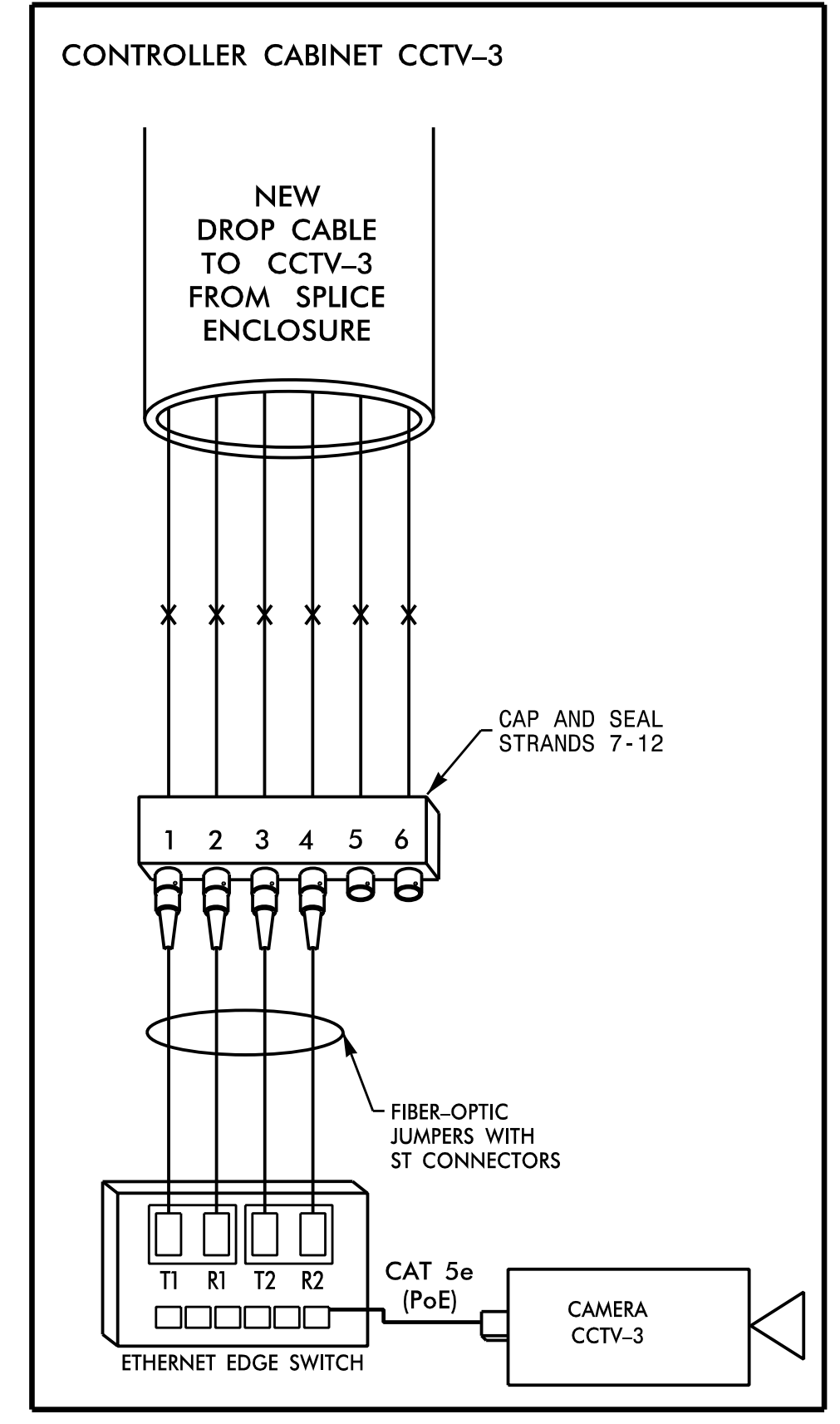
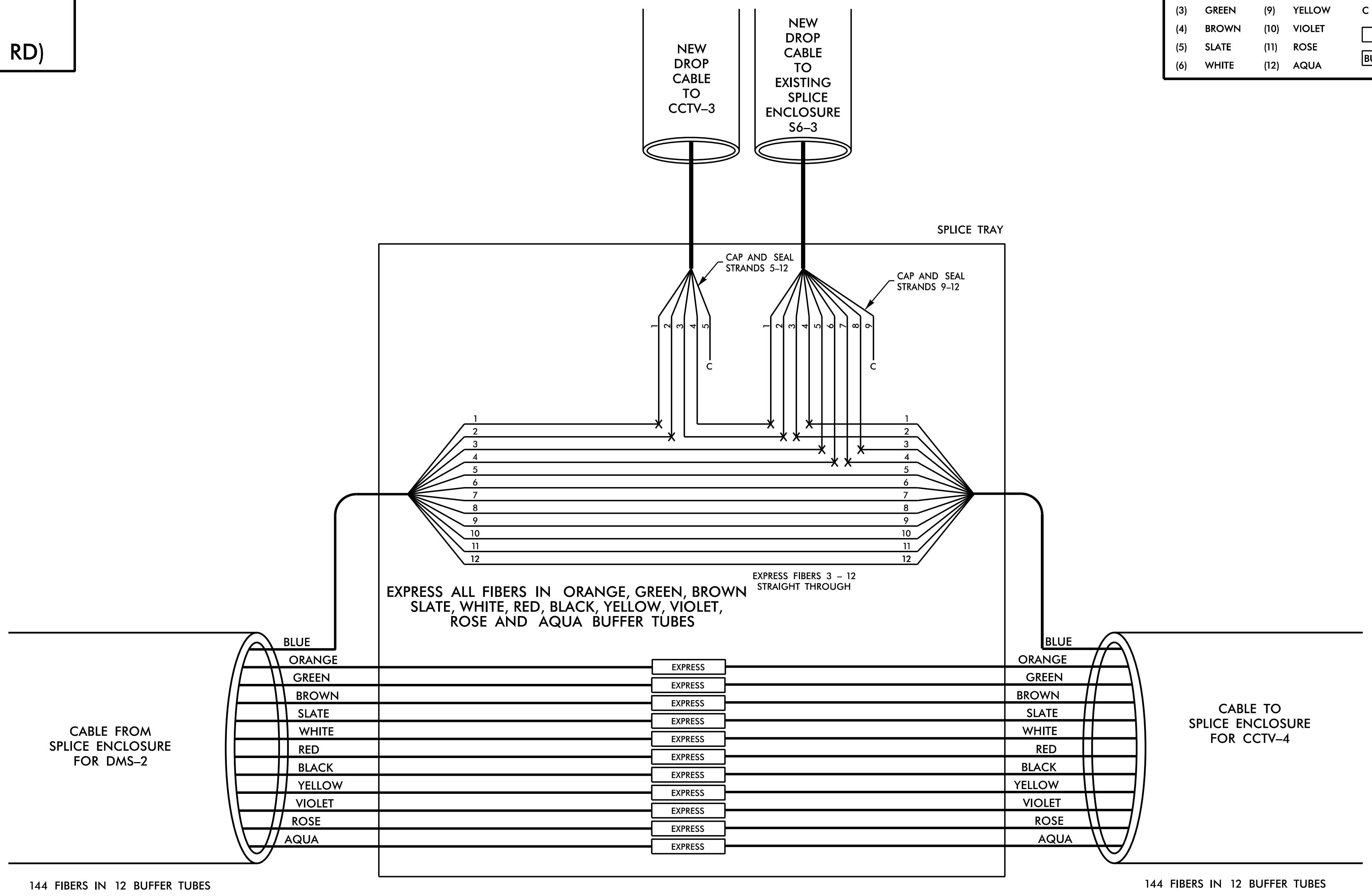
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<p>Plans Prepared for: STATE OF NORTH CAROLINA Department of Transportation</p>	<p>I-4700 ITS DEVICES SPLICE DETAILS</p>		
	<p>Division 13 Buncombe Asheville</p> <p>PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons</p>	<p>SCALE: NONE</p>	
<p>250 N. Greenfield Place, Garner, NC 27529</p>		<p>SCALE: NONE</p>	<p>DocuSigned by: Rakesh Mune 2/28/2019</p> <p>SEAL: 048072</p> <p>SIGNATURE: RAKESH MUNE DATE: 2/28/2019</p> <p>ADD File name: I-4700 ITS-57.dgn</p>

CCTV-3
I-26 (WB)
AT
-L- STA. 1015+90
NC 146 (LONG SHOALS RD)

COLOR CODE TIA/EIA 598-C		LEGEND	
(1) BLUE	(7) RED	X = NEW FUSION SPLICE INDIVIDUAL FIBER	
(2) ORANGE	(8) BLACK	● = EXISTING FUSION SPLICE	
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- (2) DATE
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- (4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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<p>Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529</p>	I-4700 ITS DEVICES SPLICE DETAILS		
	Division 13 Buncombe Asheville PLAN DATE: November 2018 REVIEWED BY: T.R. Terrell PREPARED BY: Atizaz Ali REVIEWED BY: N.R. Simmons	SCALE: NONE	
REVISIONS:		INITI.:	DATE: 2/28/2019
ADD FILENAME: I-4700 ITS-58.dgn			SIGNATURE: