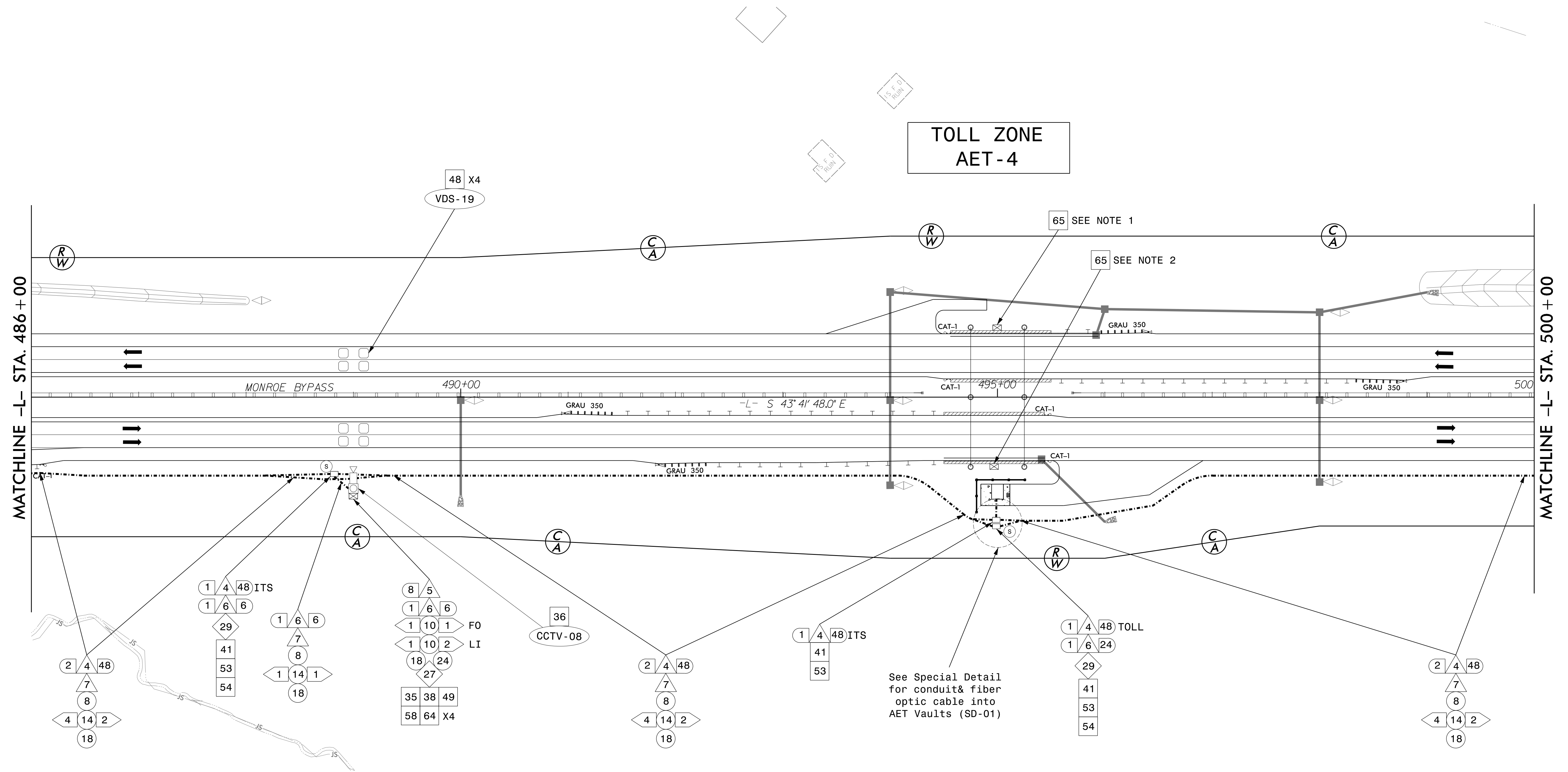


# Attachment 13B

## Monroe 90% ITS Design Plans – Part B

1. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "B".
2. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "D".



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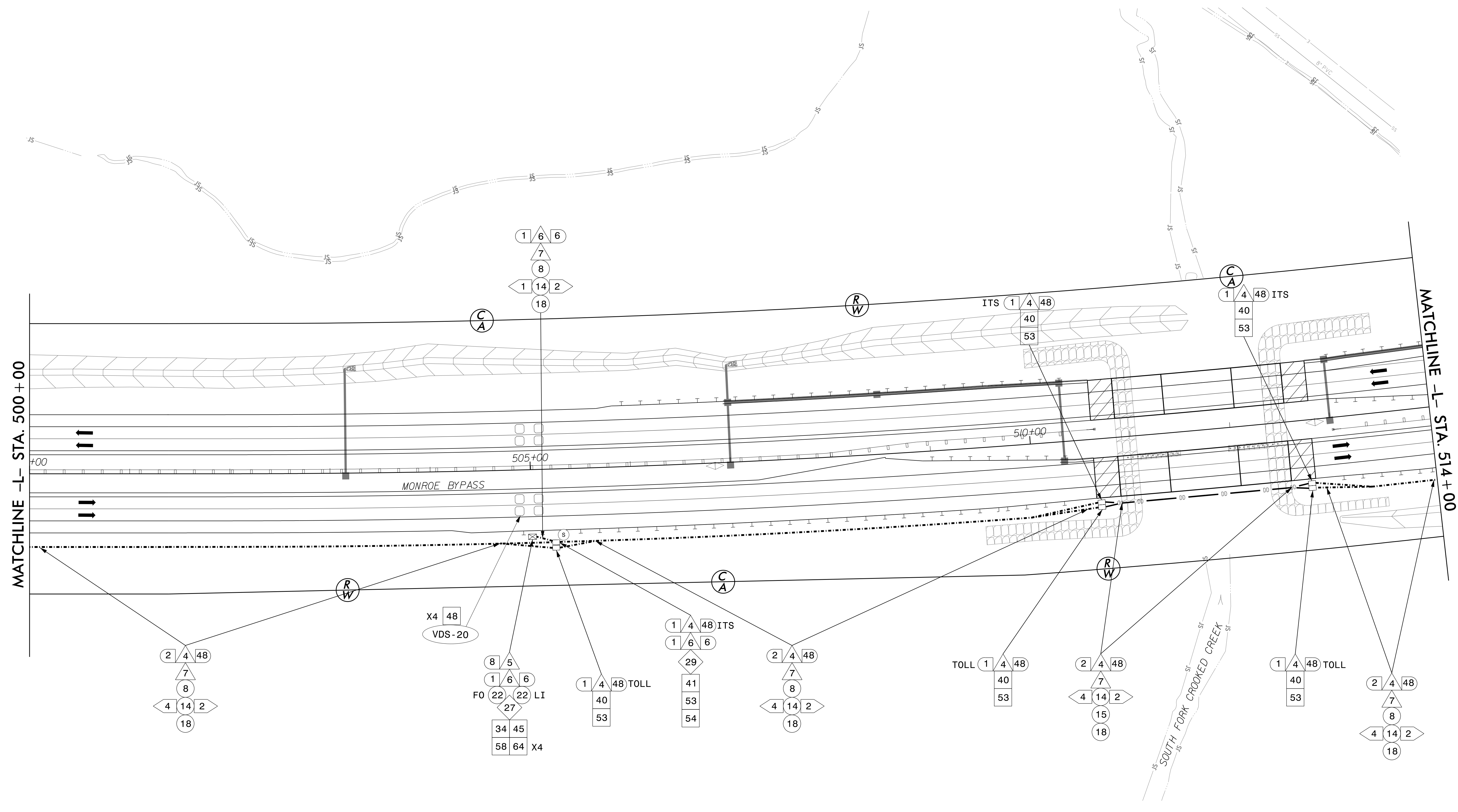
Prepared for the Offices of:

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<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>									
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PREPARED BY: K Southwell	REVIEWED BY: MP Smith								
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Division 10 Union County near Monroe

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PREPARED BY: K Southwell REVIEWED BY: MP Smith

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SCALE 0 50  
1"=50'

**Monroe Bypass - ITS Plans  
Communications Cable &  
Conduit Routing Plans**

Division 10 Union County near Monroe

PLAN DATE: April 2016 REVIEWED BY: B Brandt

PREPARED BY: K Southwell REVIEWED BY: MP Smith

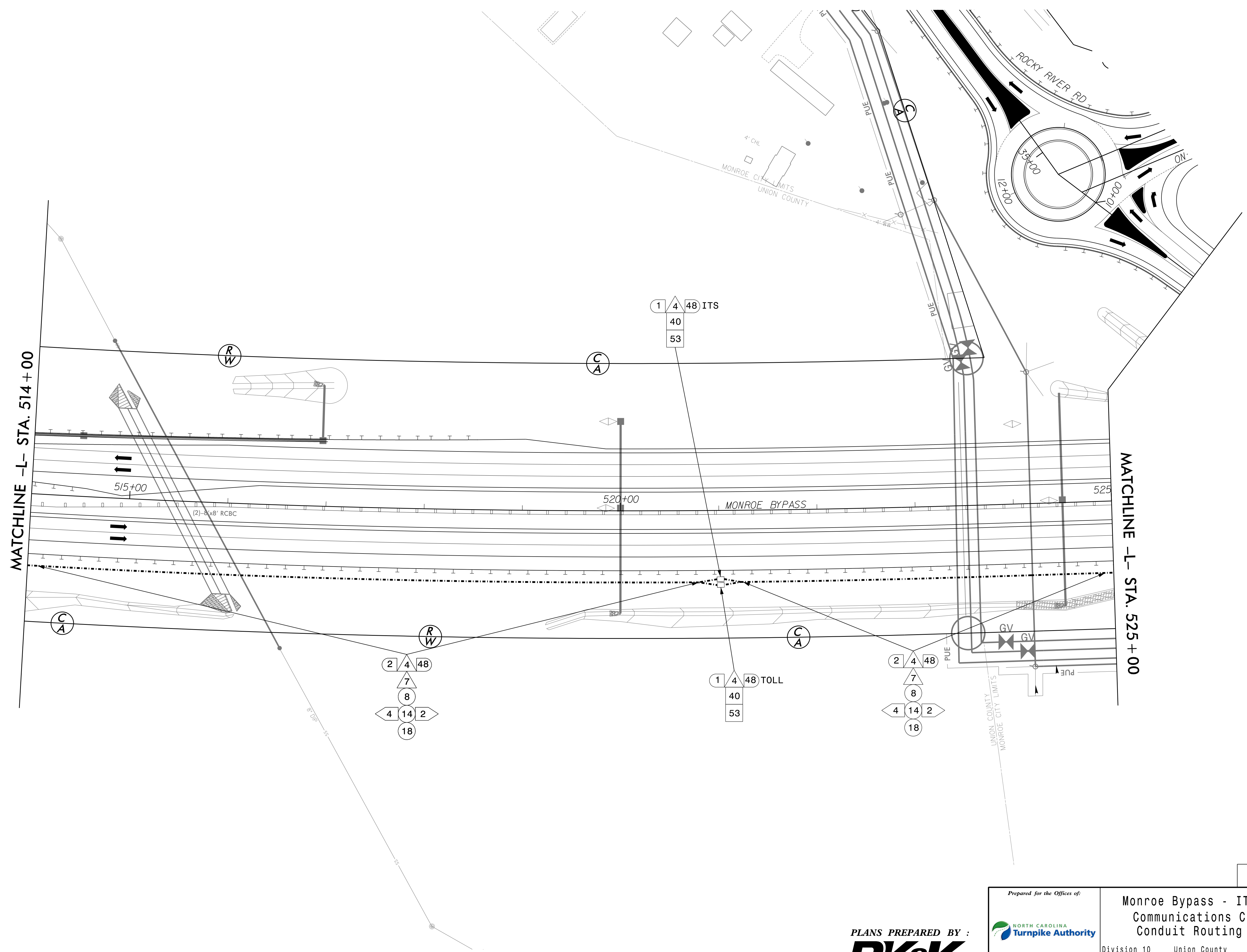
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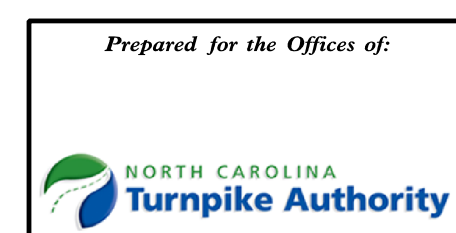
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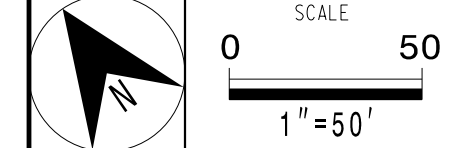
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 Conduit Routing Plans

Division 10 Union County near Monroe

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PREPARED BY:	K Southwell	REVIEWED BY:	MP Smith



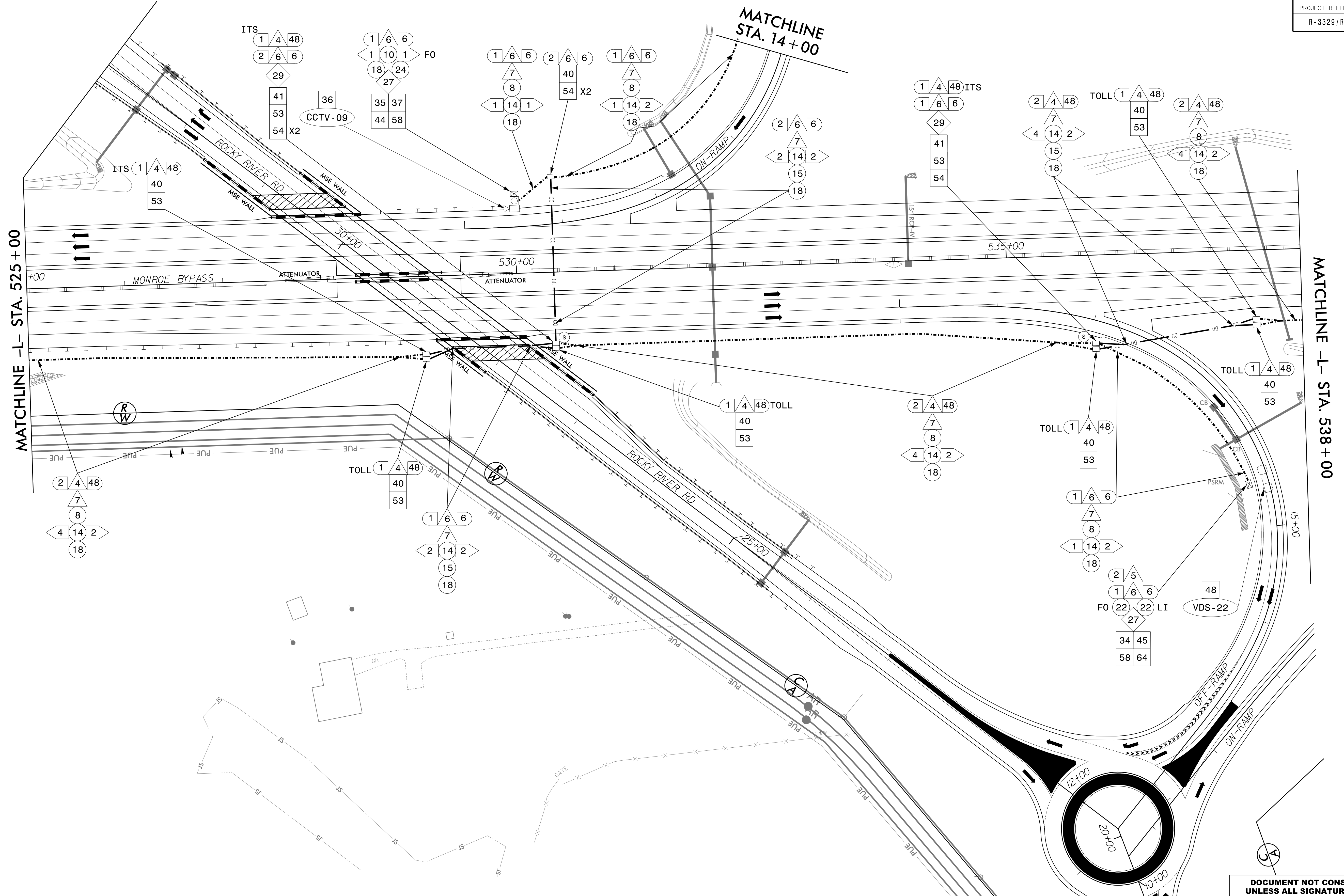
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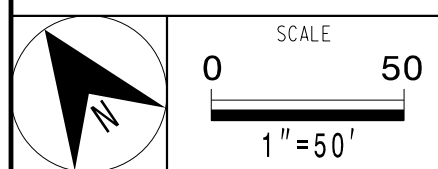
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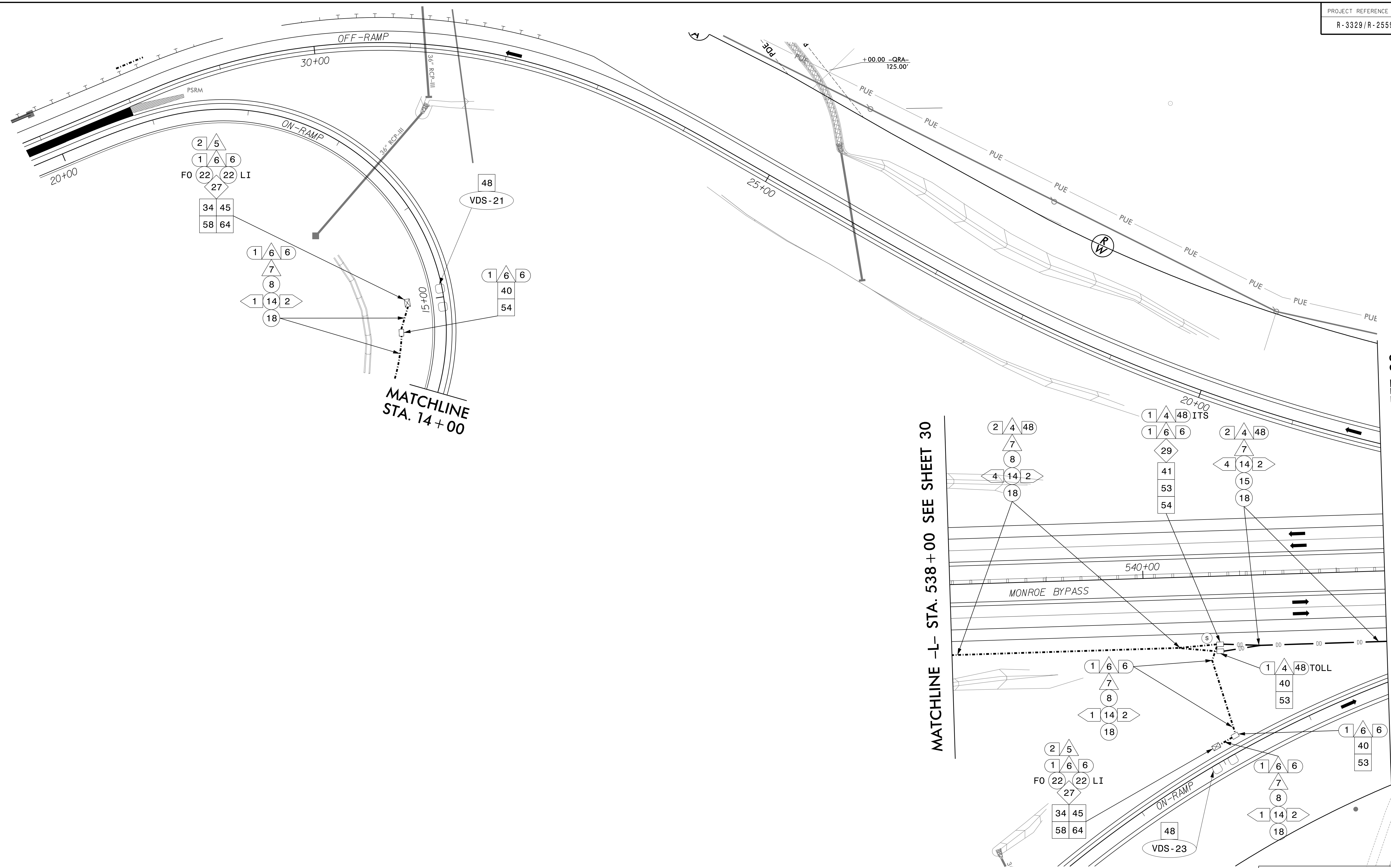
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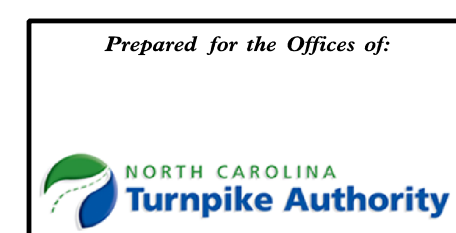
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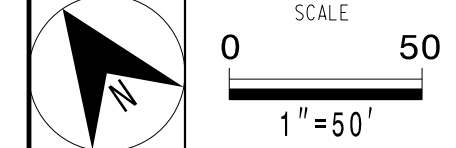
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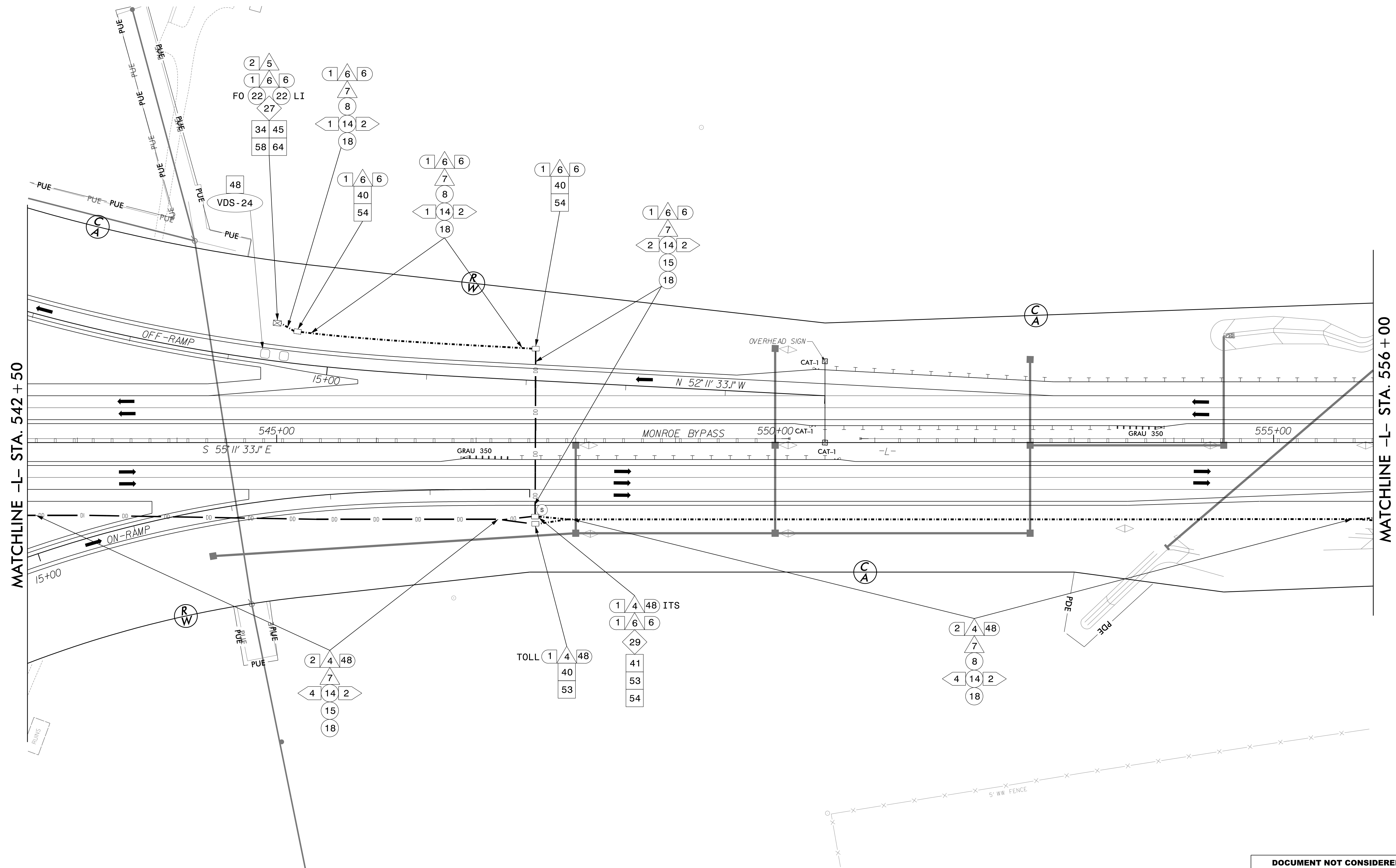


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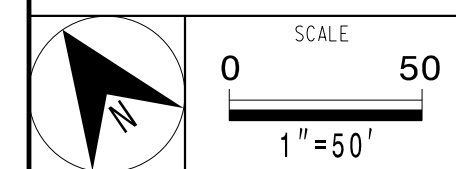
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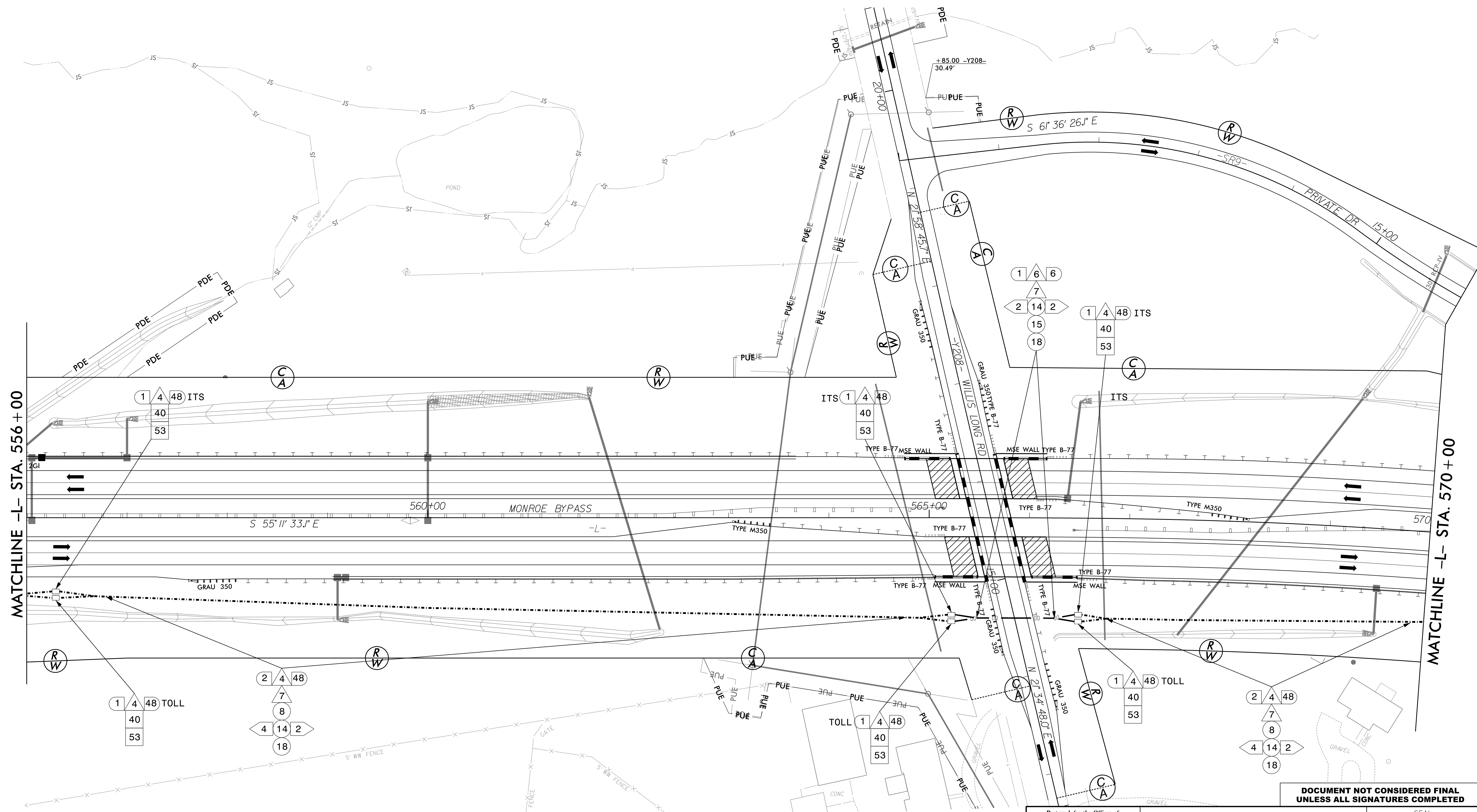
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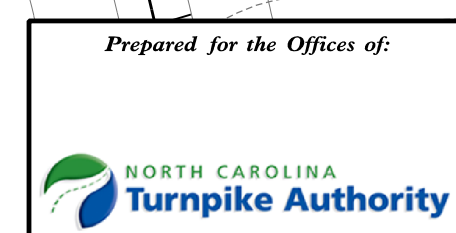
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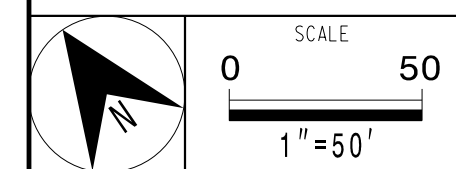
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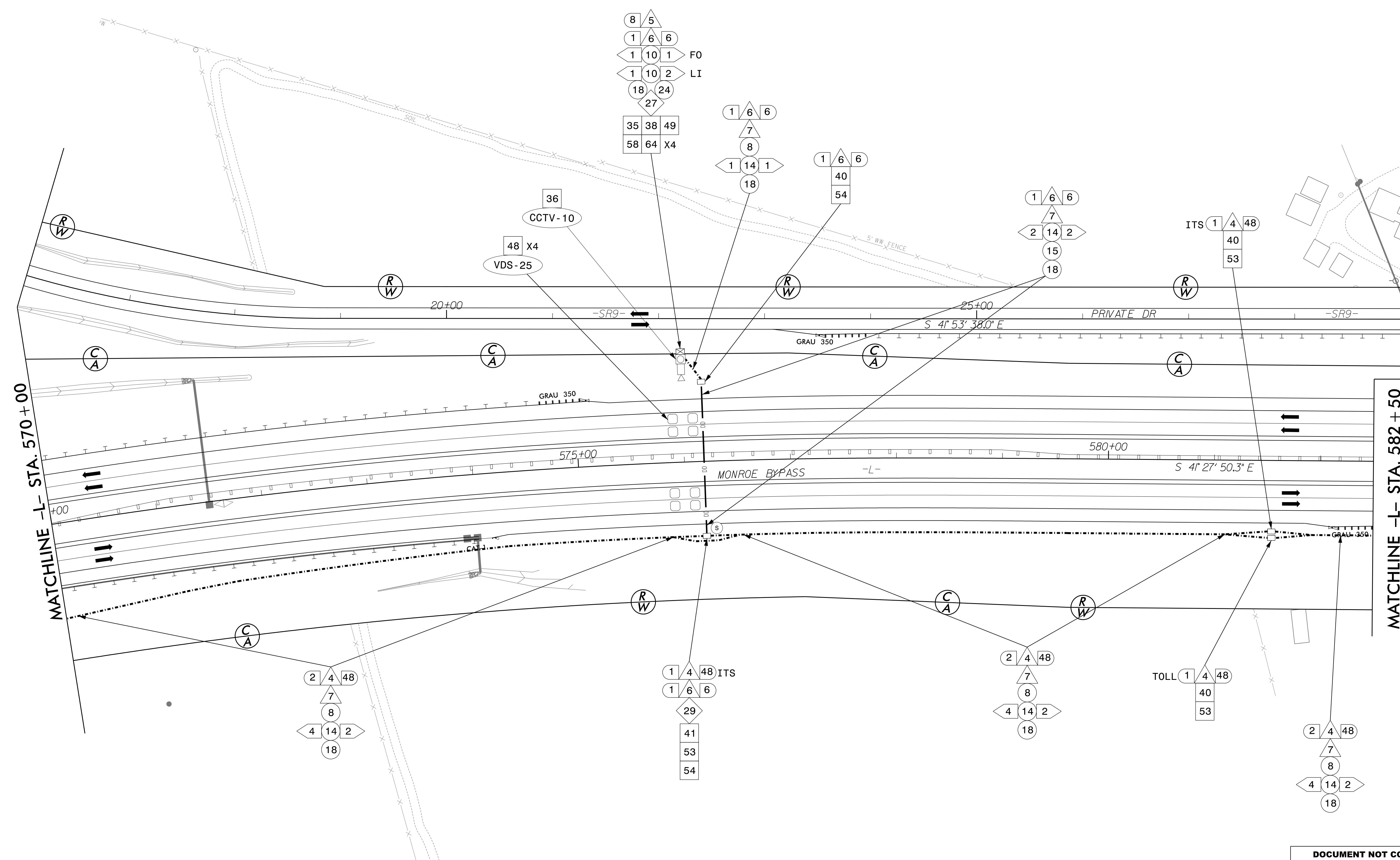
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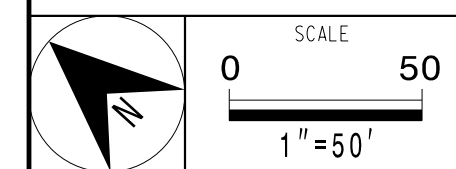
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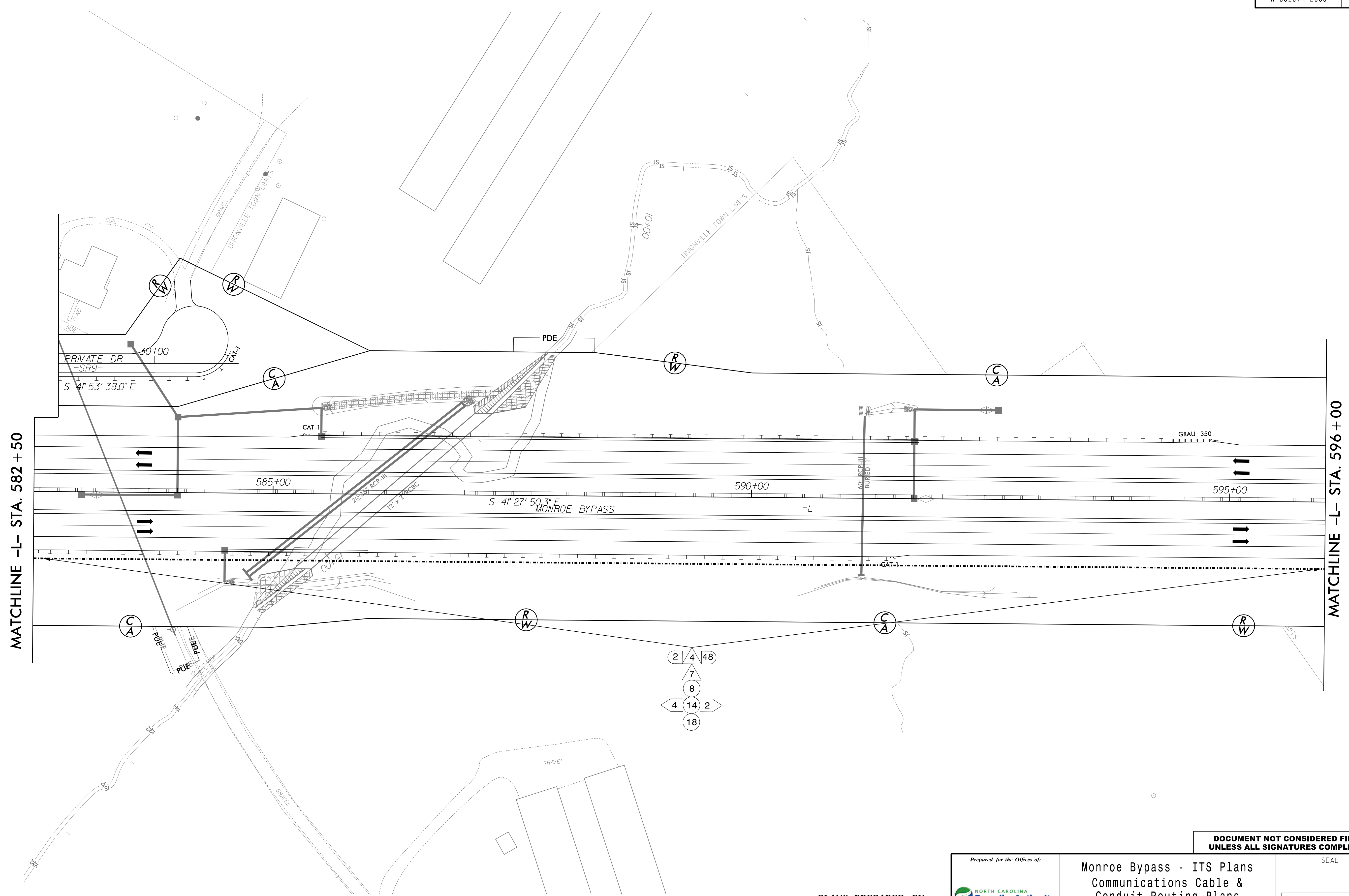
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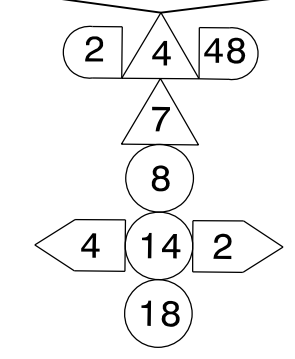
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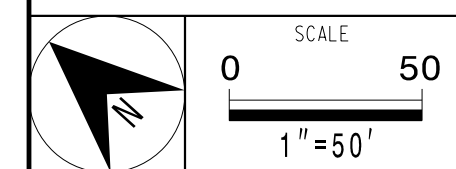
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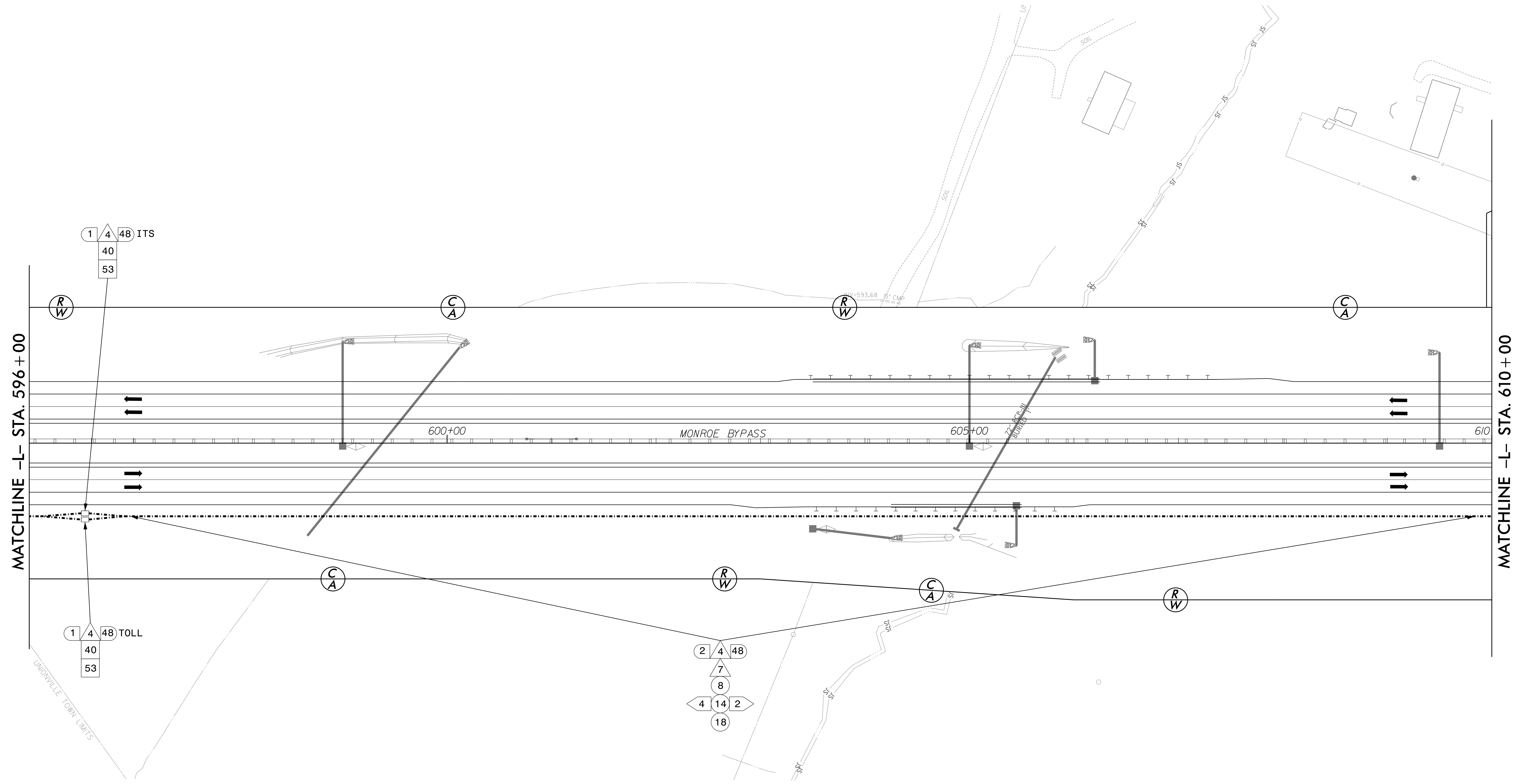
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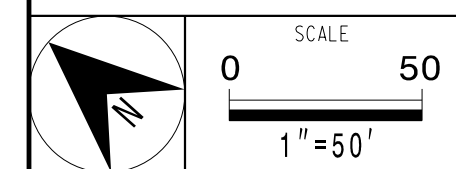
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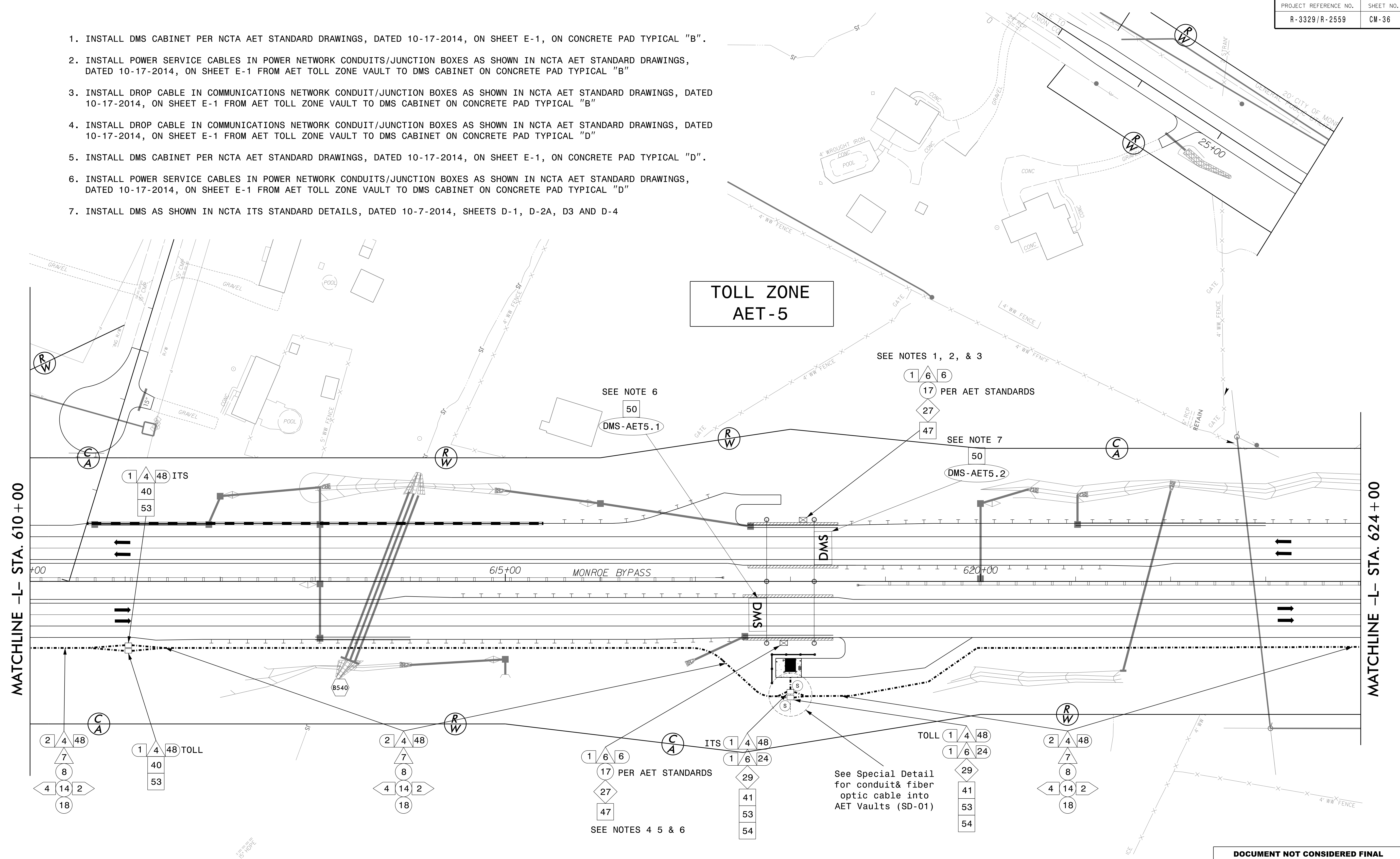
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2. INSTALL POWER SERVICE CABLES IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
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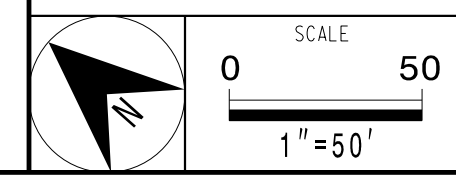


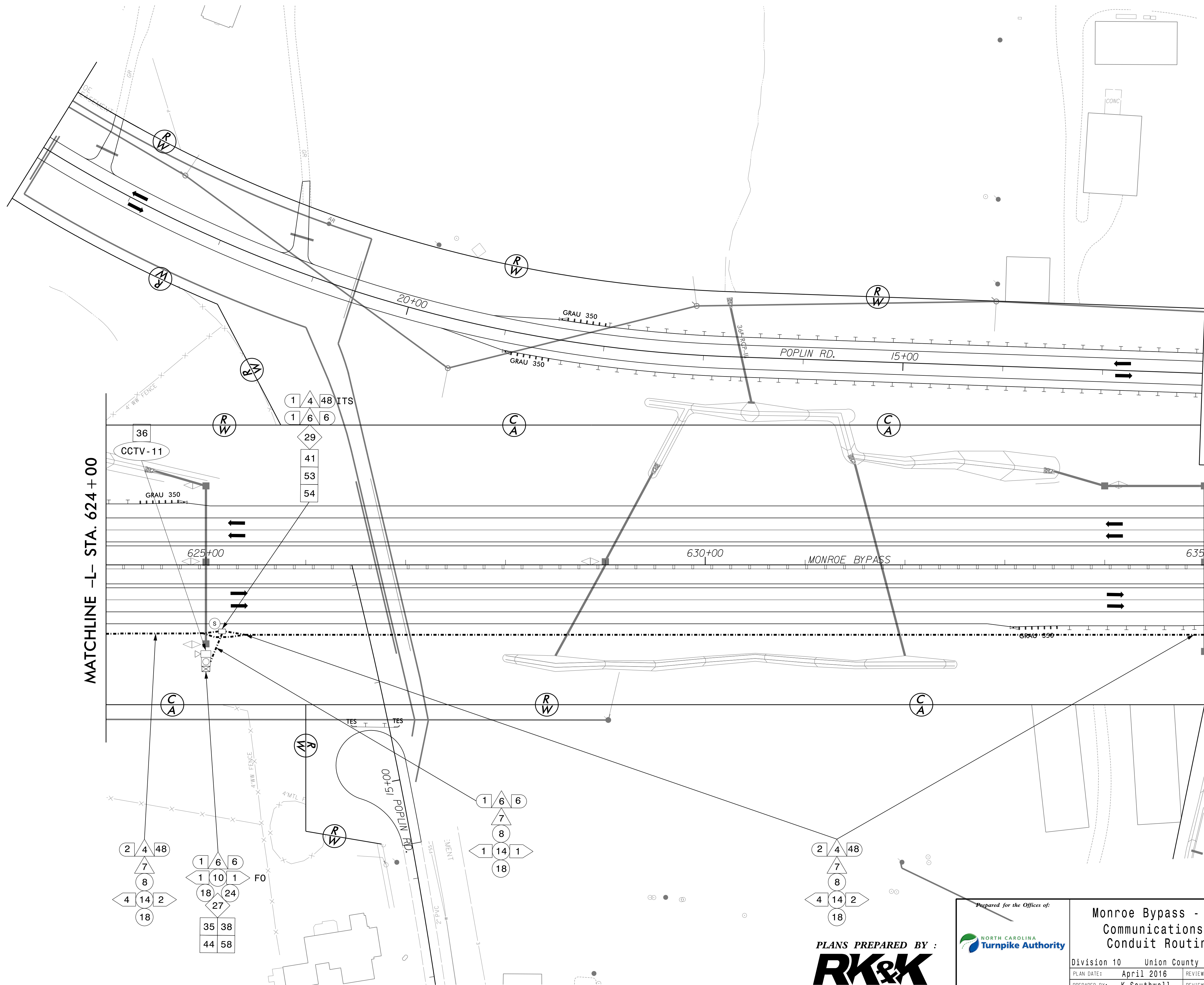
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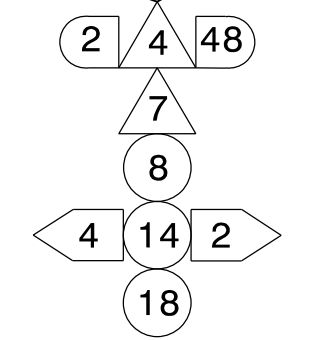
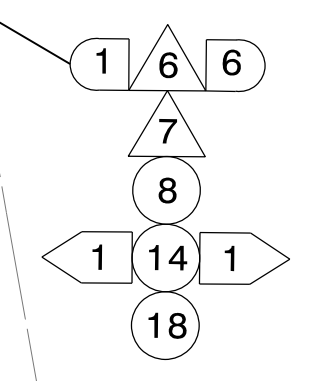
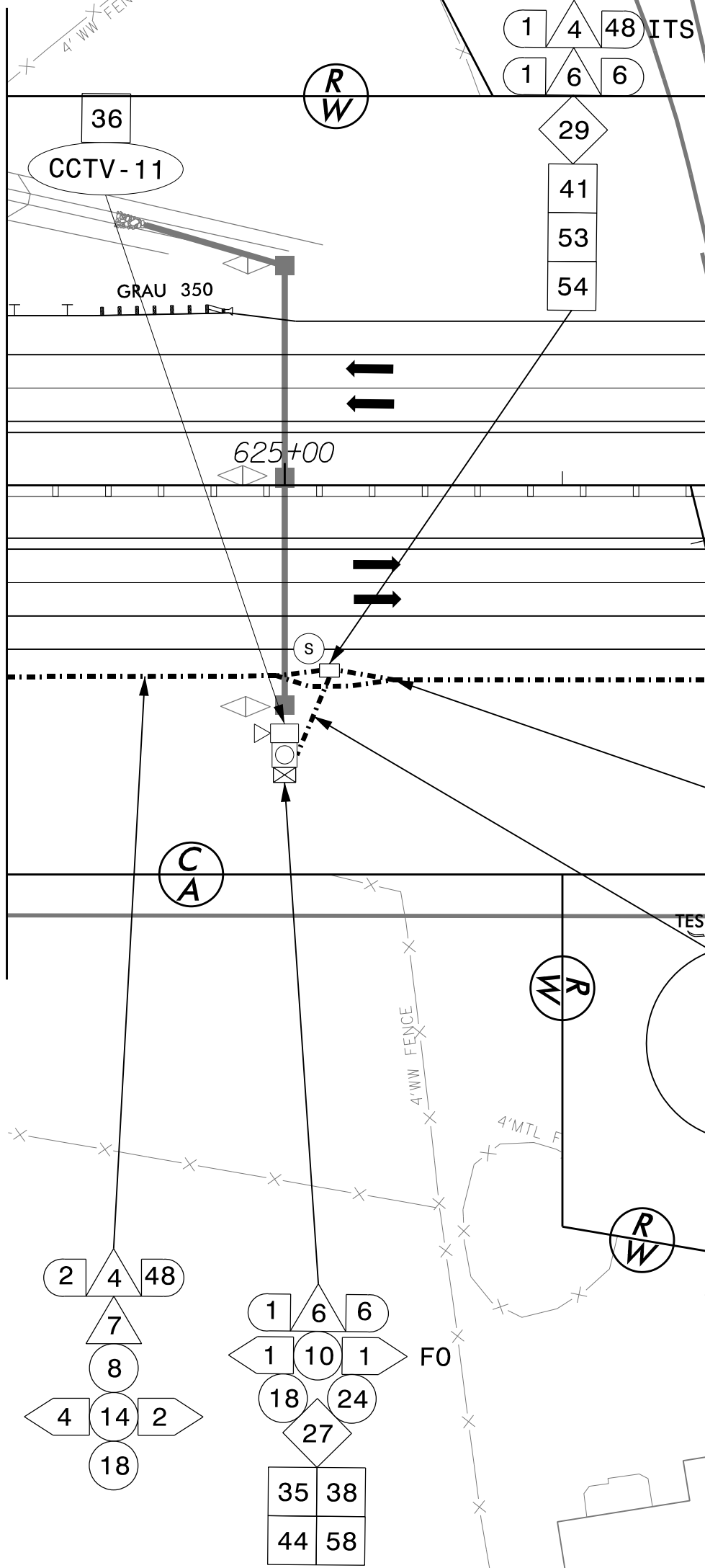
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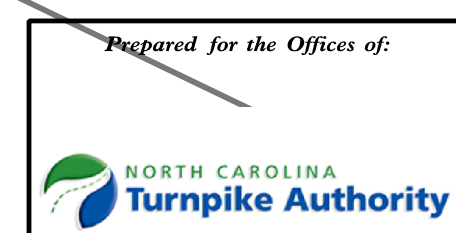
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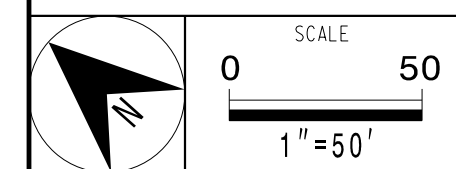
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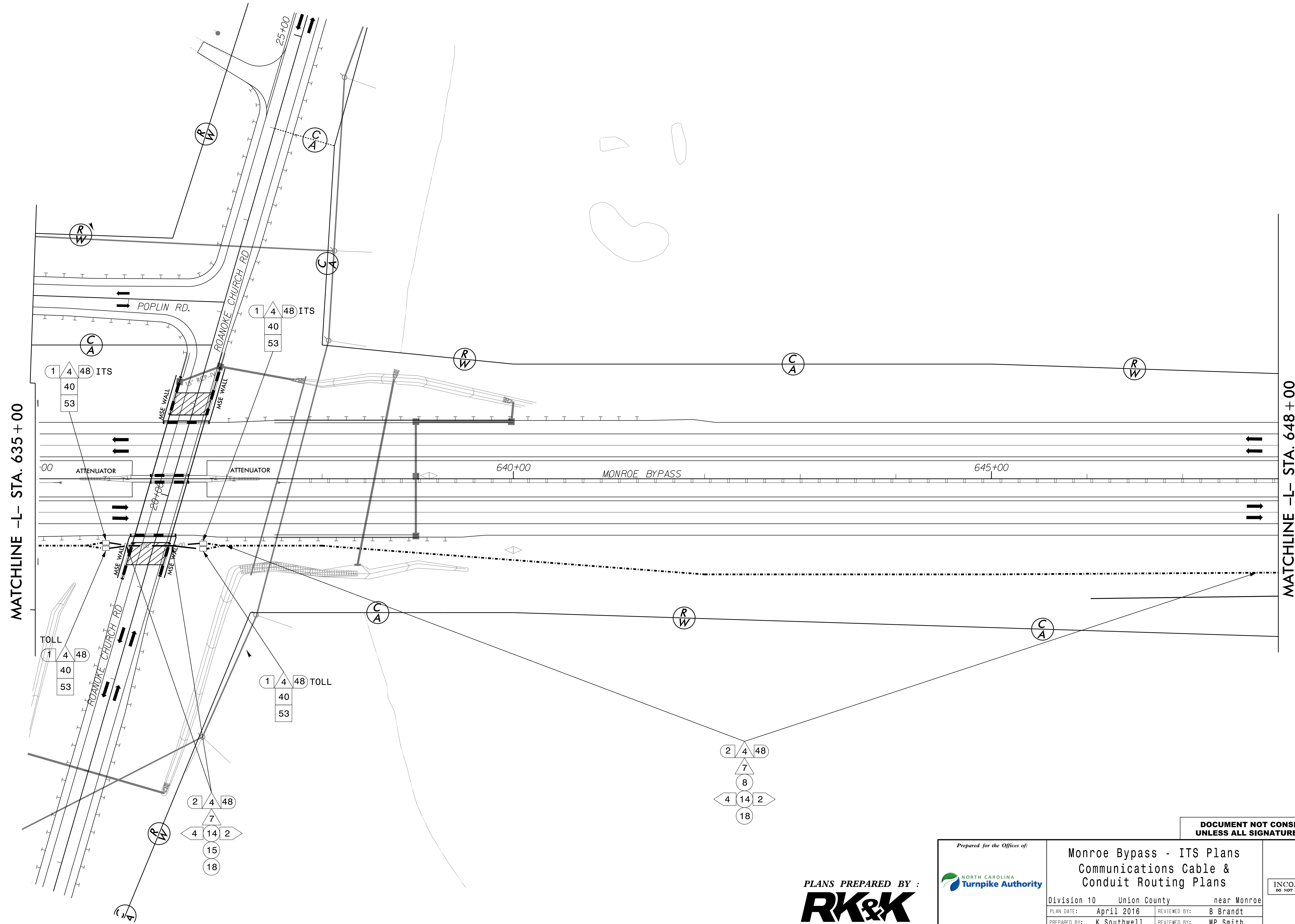


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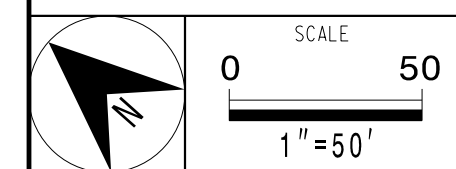
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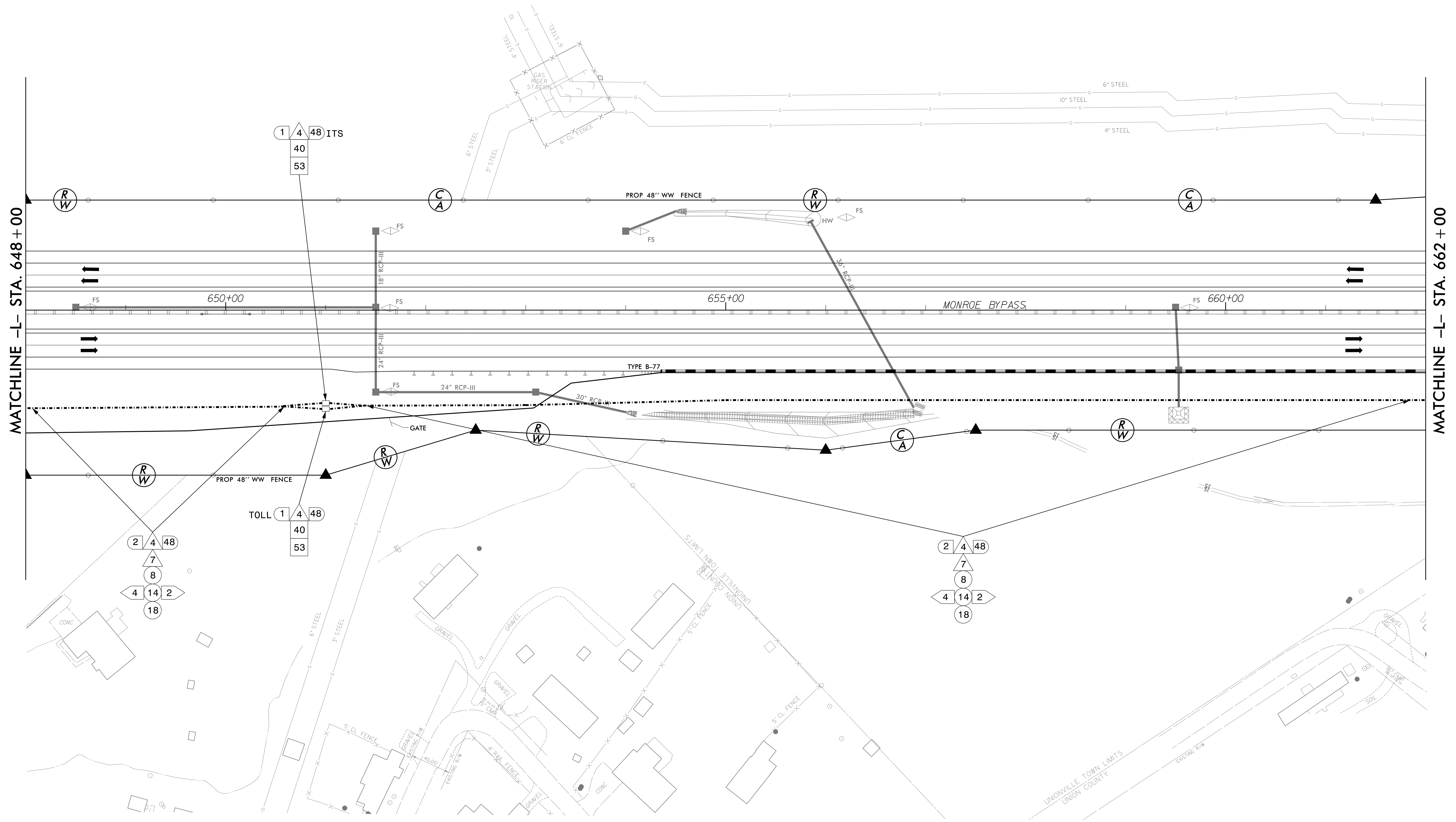


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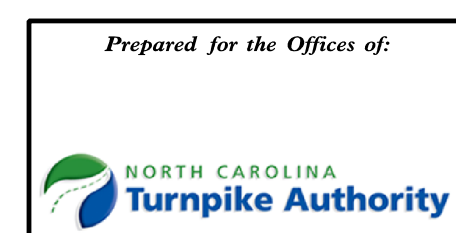


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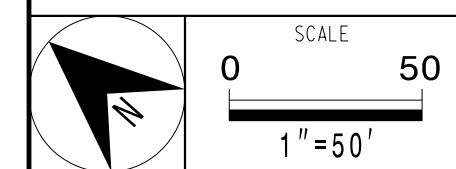
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 NC LICENSE NO. F-0112 • (919) 878-9560



**Monroe Bypass - ITS Plans**  
**Communications Cable & Conduit Routing Plans**

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
 PREPARED BY: K Southwell REVIEWED BY: MP Smith



REVISIONS	INIT.	DATE

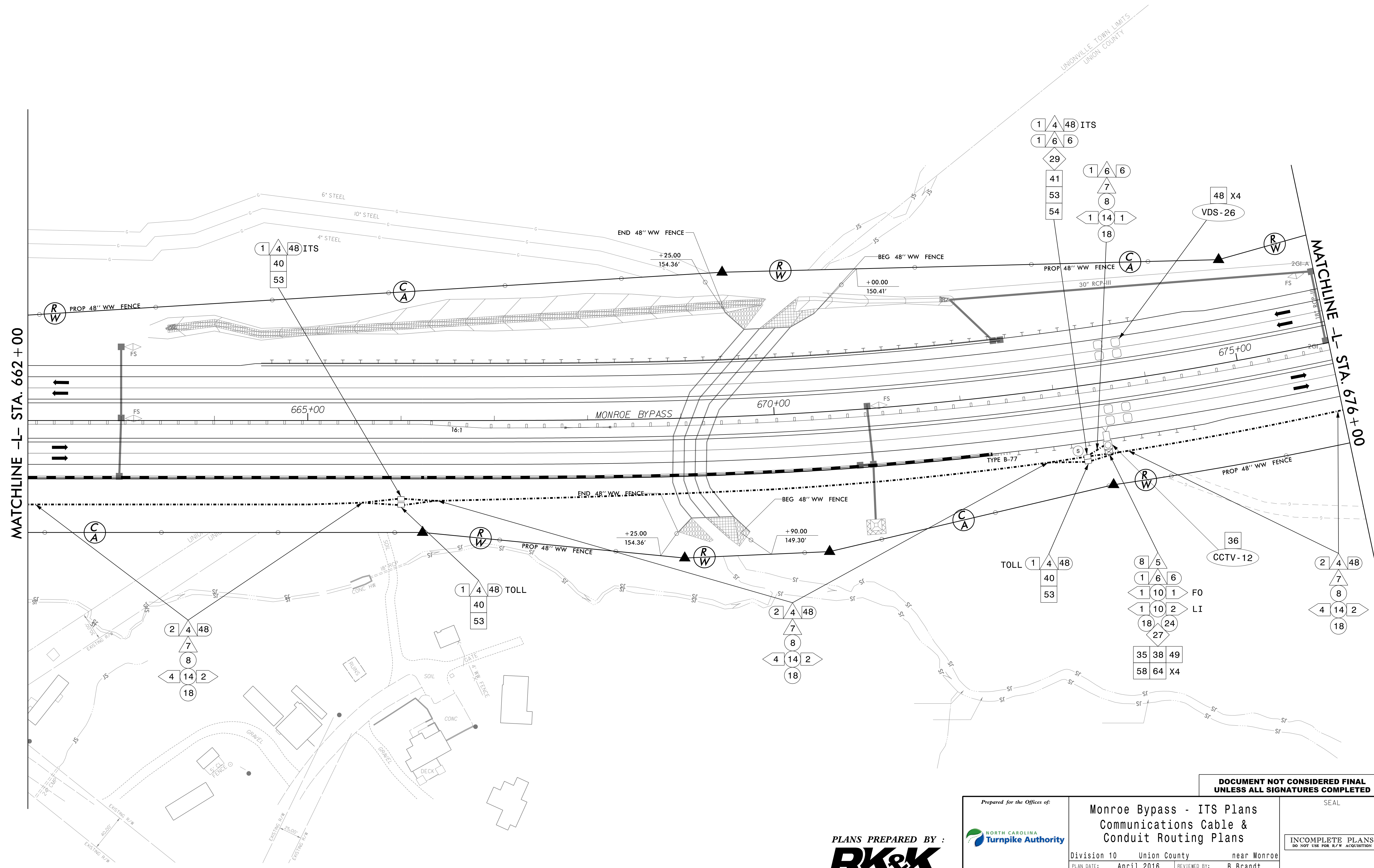
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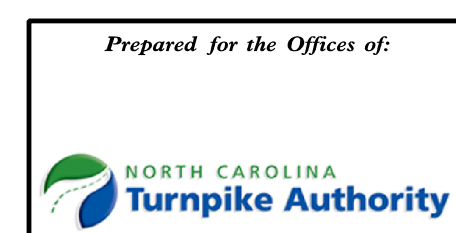
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 Southwell AT SOUTHWELL

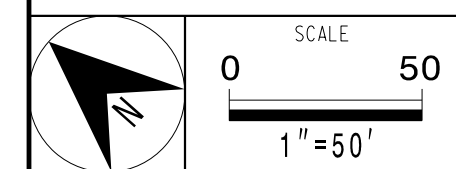
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PLANS PREPARED BY:  
**RK&K**  
 RUMMEL, KLEPPER & KAHL, LLP  
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Monroe Bypass - ITS Plans  
 Communications Cable &  
 Conduit Routing Plans

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
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REVISIONS	INIT.	DATE

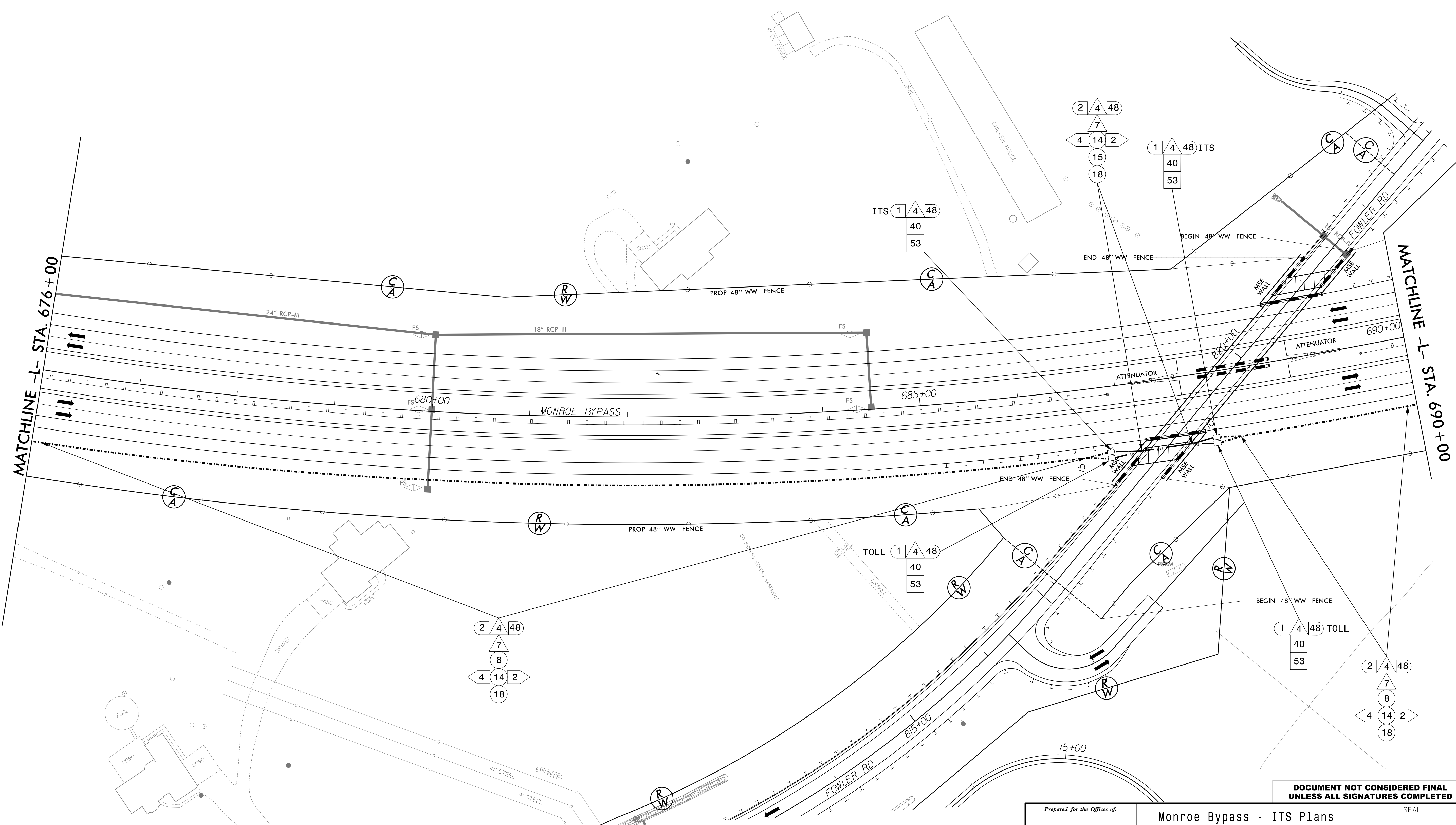
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Prepared for the Offices of:

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
 PREPARED BY: K Southwell REVIEWED BY: MP Smith

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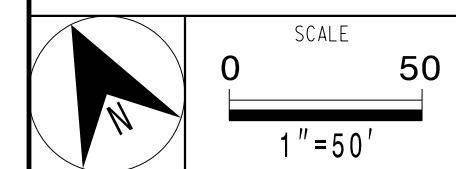
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<b>Monroe Bypass - ITS Plans</b> <b>Communications Cable &amp;</b> <b>Conduit Routing Plans</b>	
Division 10 Union County near Monroe PLAN DATE: April 2016 PREPARED BY: K Southwell	REVIEWED BY: B Brandt REVIEWED BY: MP Smith
REVISIONS INIT. DATE	DATE

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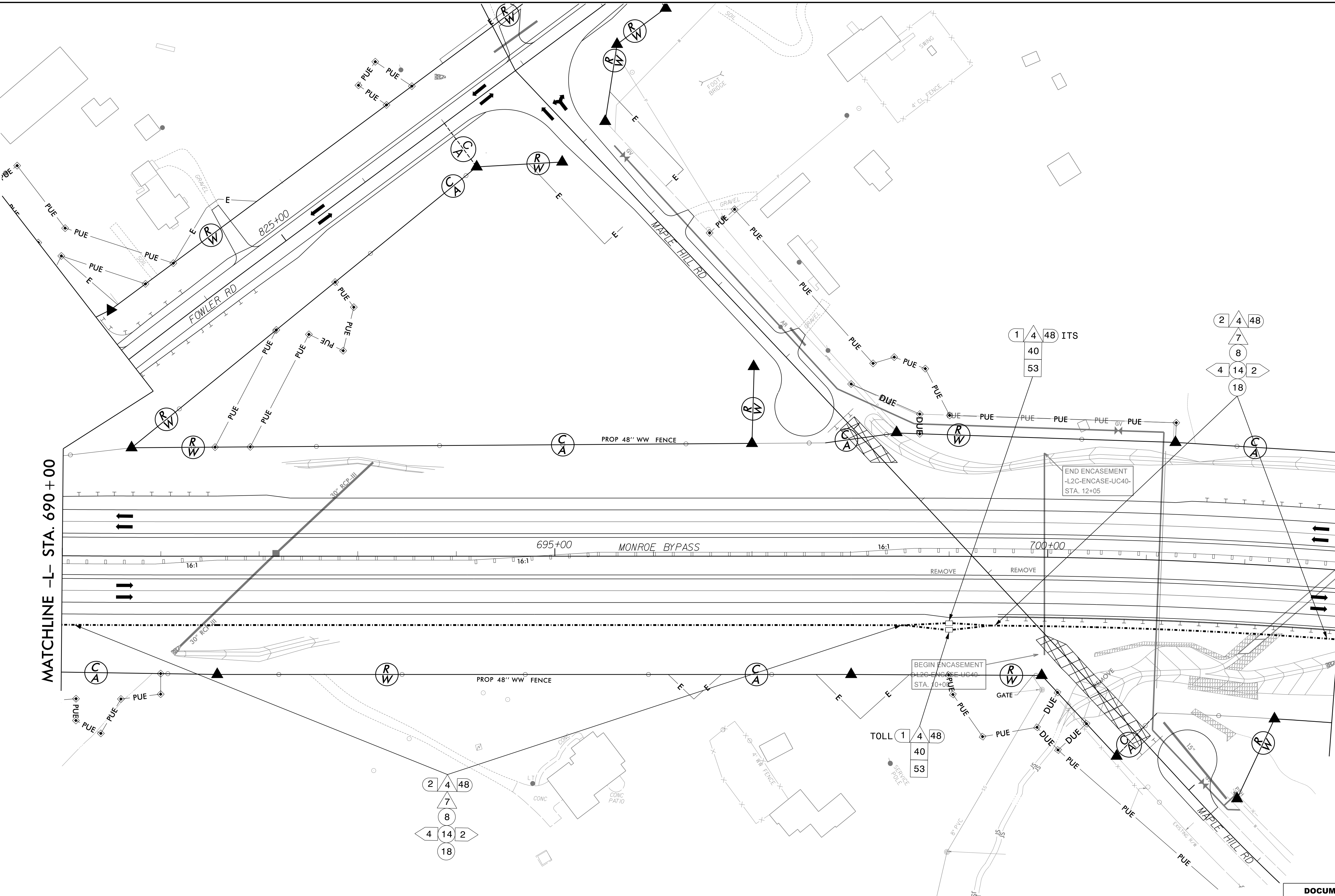
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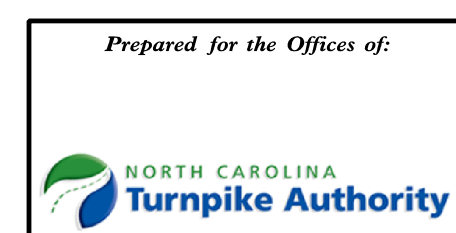
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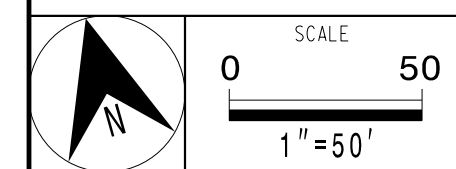
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Monroe Bypass - ITS Plans  
 Communications Cable &  
 Conduit Routing Plans

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
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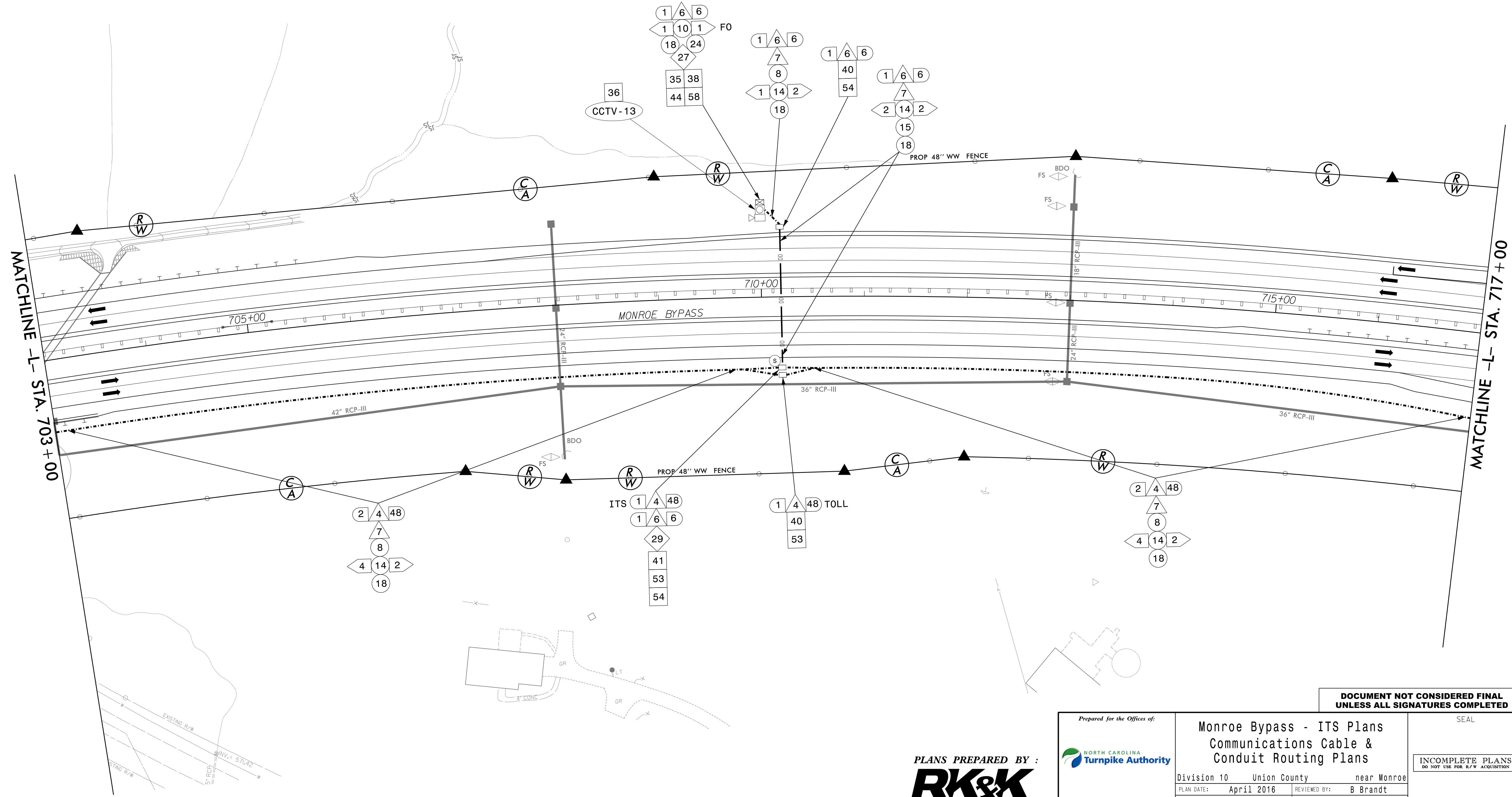
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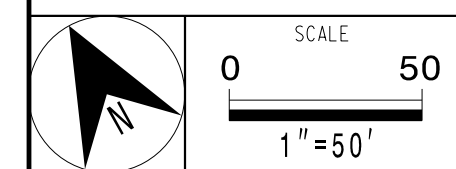
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**Communications Cable & Conduit Routing Plans**

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
 PREPARED BY: K Southwell REVIEWED BY: MP Smith

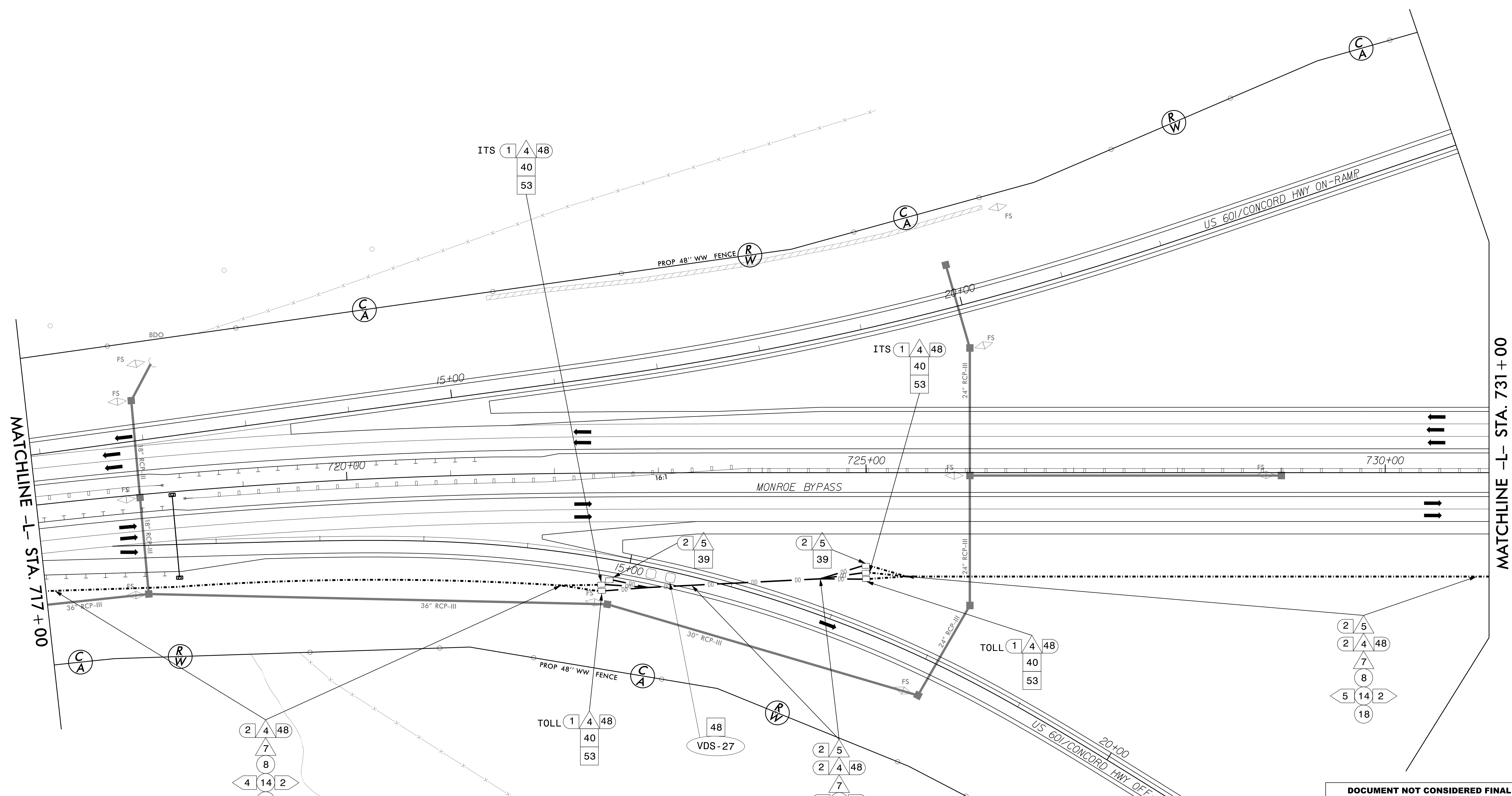


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REVISIONS	INIT.	DATE

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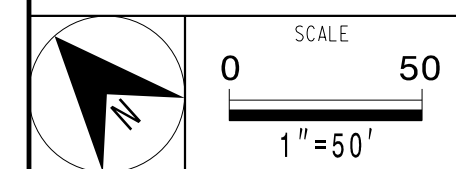
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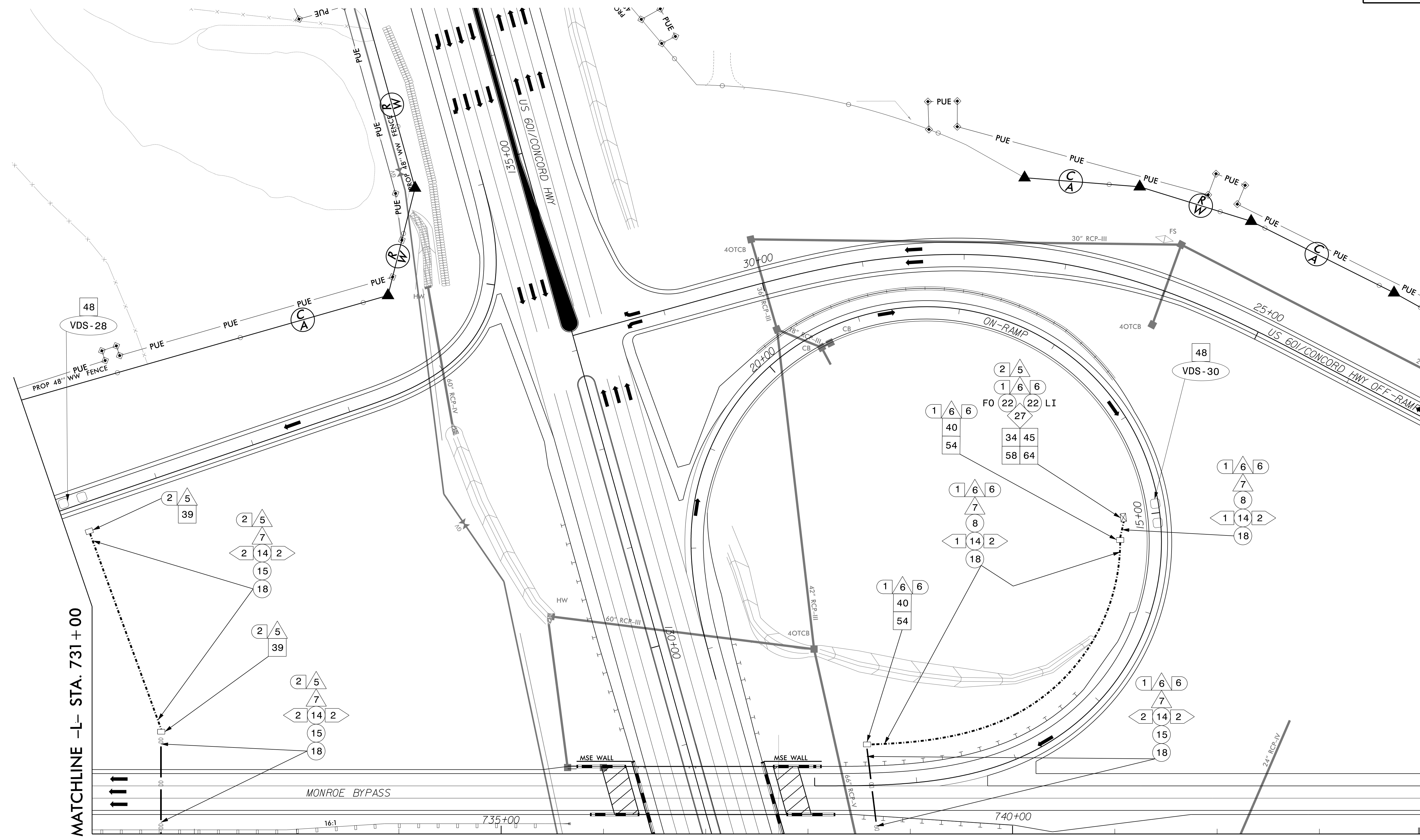
PLANS PREPARED BY:  
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<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>									
Division 10 Union County near Monroe		SEAL							
PLAN DATE: April 2016	REVIEWED BY: B Brandt	<table border="1"> <tr> <td colspan="2">INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION					
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION									
PREPARED BY: K Southwell	REVIEWED BY: MP Smith								
REVISIONS	INIT.	DATE							



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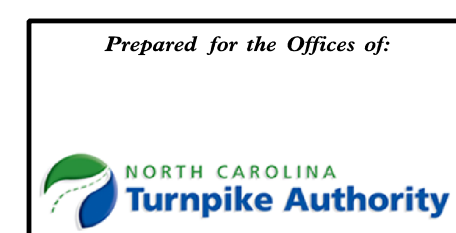
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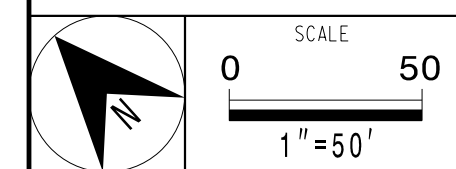
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Monroe Bypass - ITS Plans  
Communications Cable &  
Conduit Routing Plans

Division 10 Union County near Monroe  
PLAN DATE: April 2016 REVIEWED BY: B Brandt  
PREPARED BY: K Southwell REVIEWED BY: MP Smith



REVISIONS	INIT.	DATE

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INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

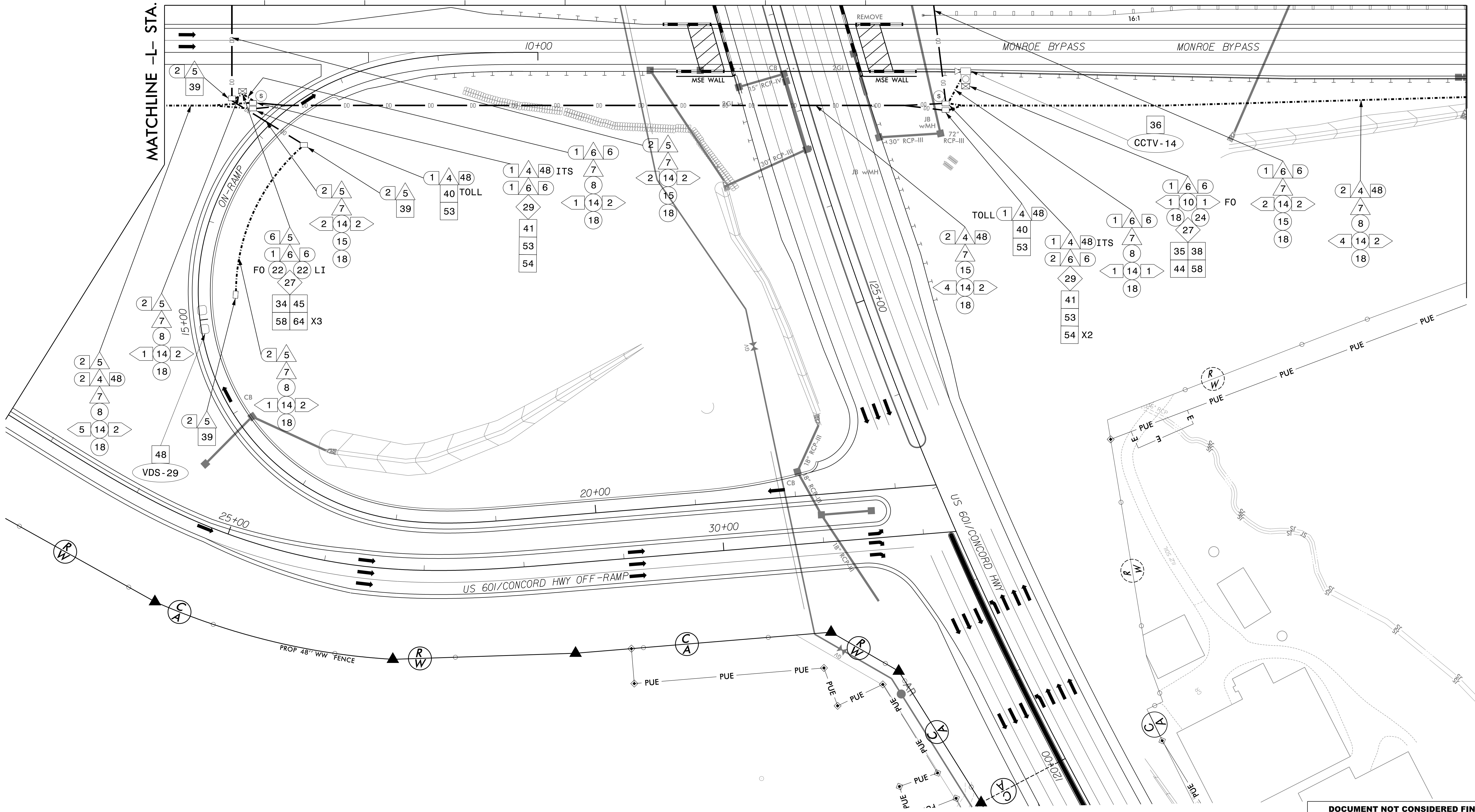
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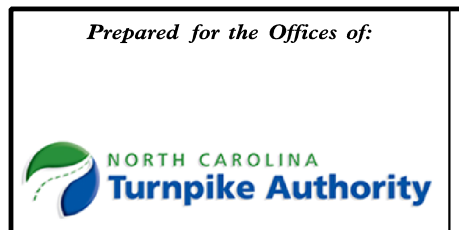
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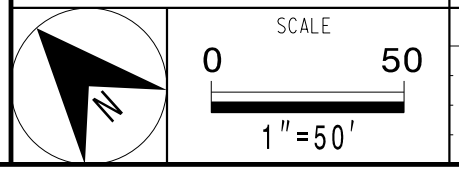
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**Communications Cable & Conduit Routing Plans**

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
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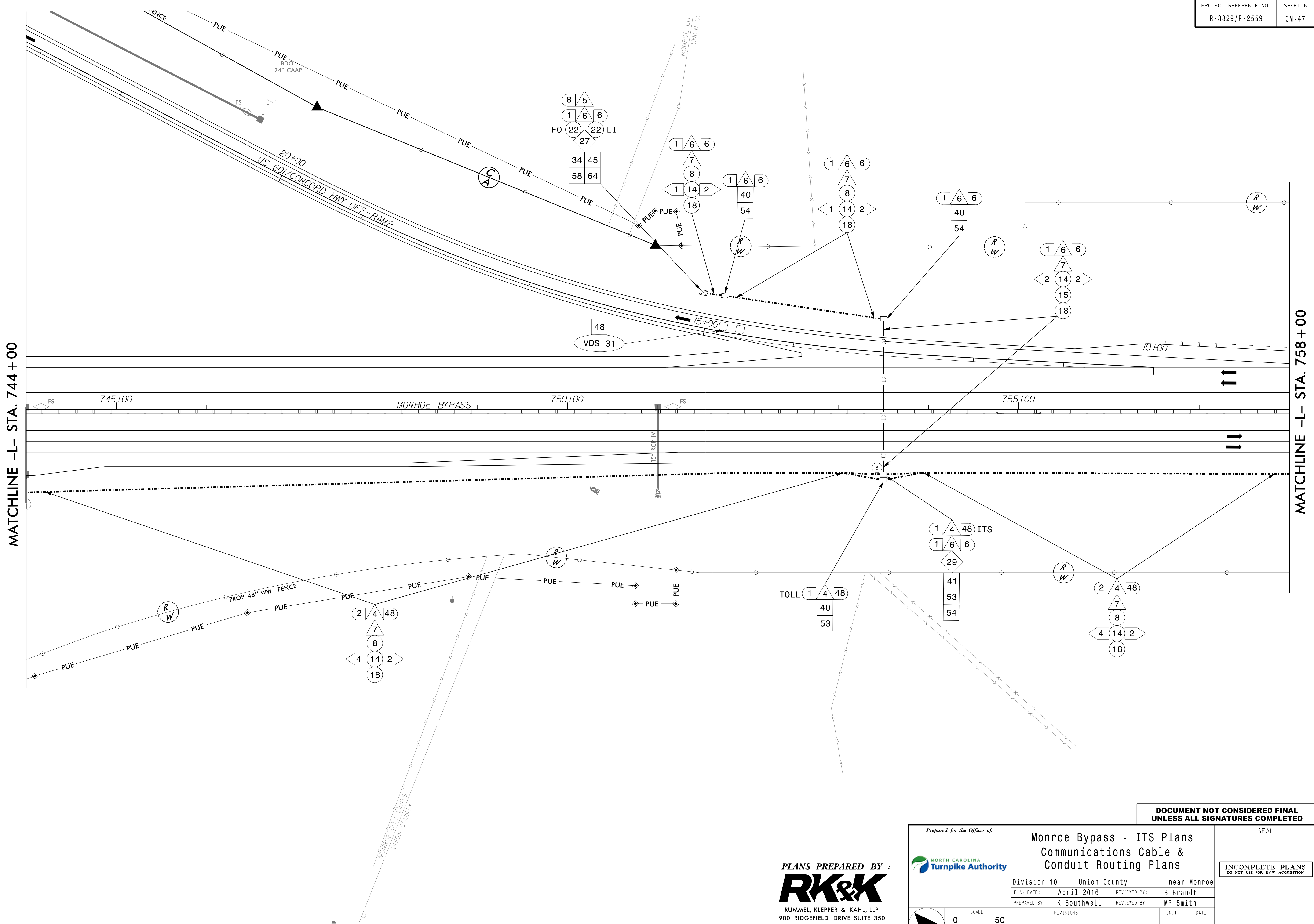
REVISIONS	INIT.	DATE

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INCOMPLETE PLANS  
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DATE

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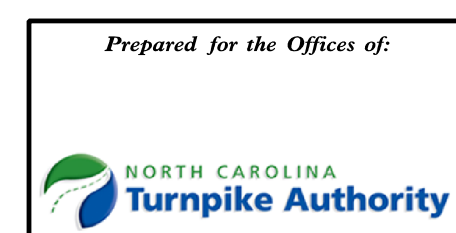
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 Southwell AT SOUTHWELL

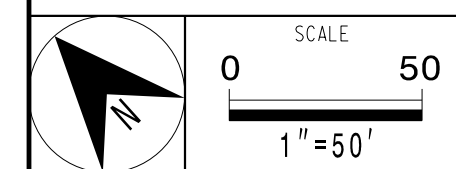
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Monroe Bypass - ITS Plans  
 Communications Cable &  
 Conduit Routing Plans

Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: B Brandt  
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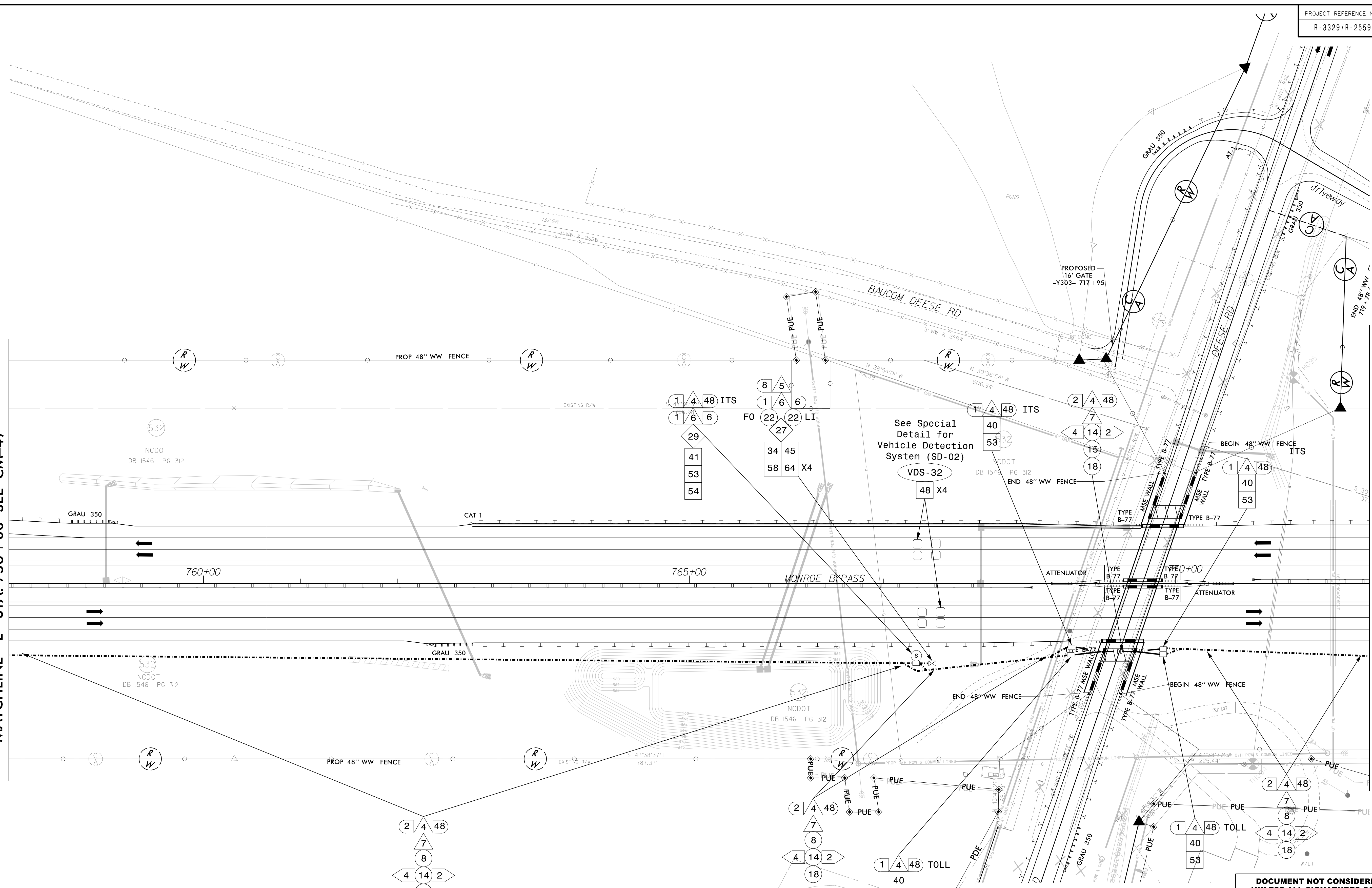
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MATCHLINE -L- STA. 758 +00 SEE CM-47

MATCHLINE -L- STA. 772 +00 SEE CM-49



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 nissen

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<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>			
Division 10 Union County near Monroe		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PLAN DATE: April 2016	REVIEWED BY: LM Moon	DATE	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	DATE	
REVISIONS		INIT. DATE	
0 SCALE 50 1"=50'		DATE	
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**DRMP**  
 ENGINEERS • PLANNERS • SCIENTISTS  
 DRMP INC.  
 5550 FAIRVIEW ROAD, SUITE 320  
 CHARLOTTE, NC 28210  
 NC LICENSE NO. CC-0213 • (704) 332-2289



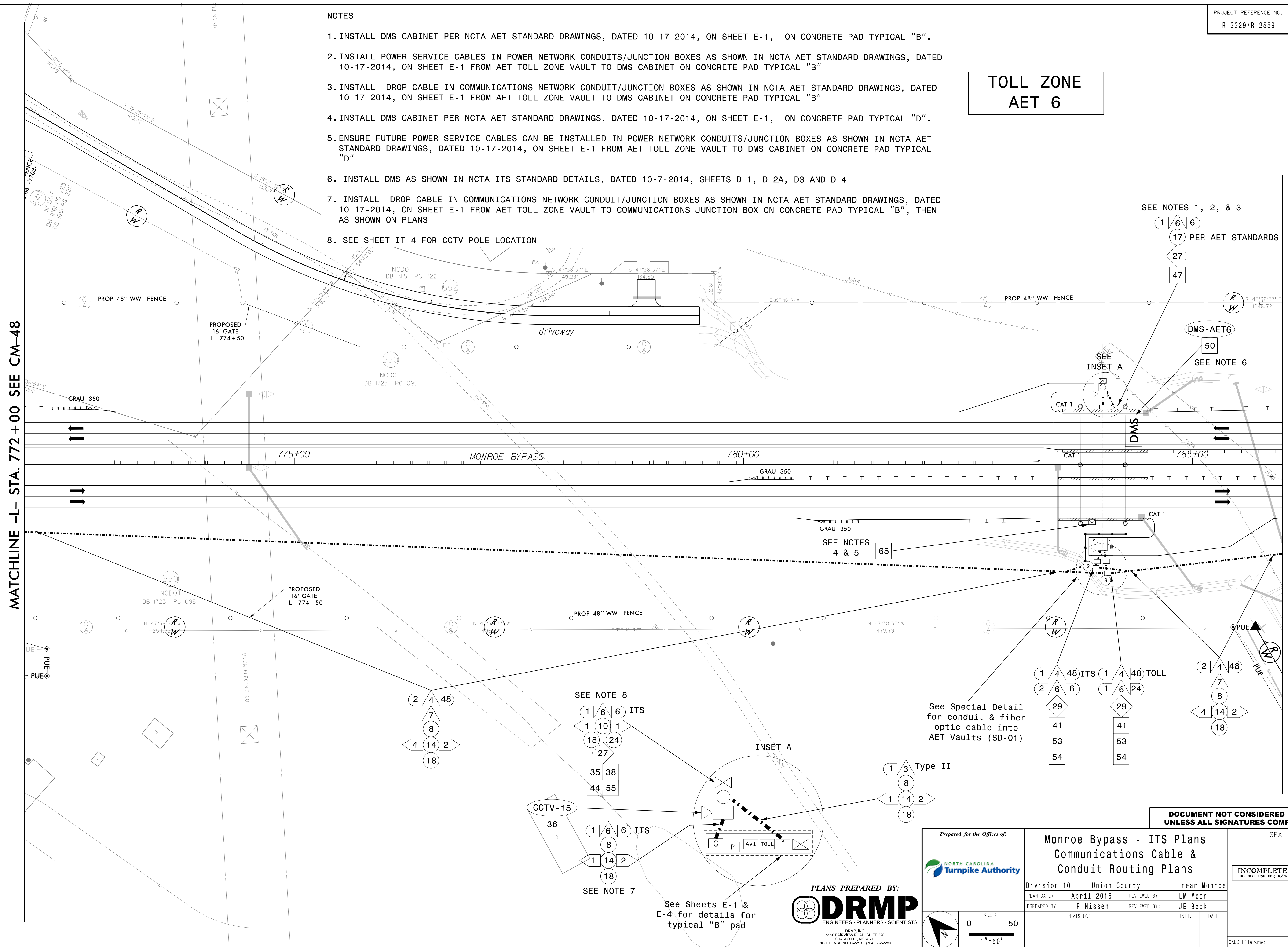
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AET 6**

**NOTES**

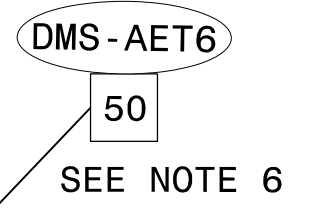
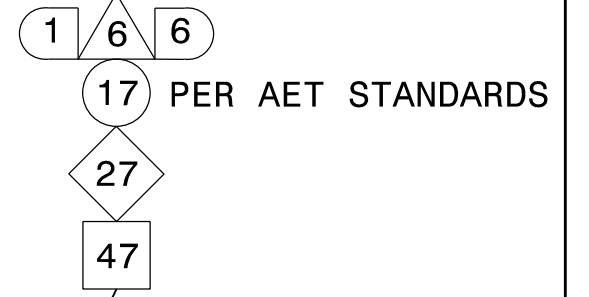
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2. INSTALL POWER SERVICE CABLES IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
3. INSTALL DROP CABLE IN COMMUNICATIONS NETWORK CONDUIT/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
4. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "D".
5. ENSURE FUTURE POWER SERVICE CABLES CAN BE INSTALLED IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "D"
6. INSTALL DMS AS SHOWN IN NCTA ITS STANDARD DETAILS, DATED 10-7-2014, SHEETS D-1, D-2A, D3 AND D-4
7. INSTALL DROP CABLE IN COMMUNICATIONS NETWORK CONDUIT/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO COMMUNICATIONS JUNCTION BOX ON CONCRETE PAD TYPICAL "B", THEN AS SHOWN ON PLANS
8. SEE SHEET IT-4 FOR CCTV POLE LOCATION

MATCHLINE -L- STA. 772+00 SEE CM-48

MATCHLINE -L- STA. 786+00 SEE CM-50

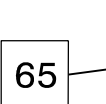


SEE NOTES 1, 2, & 3

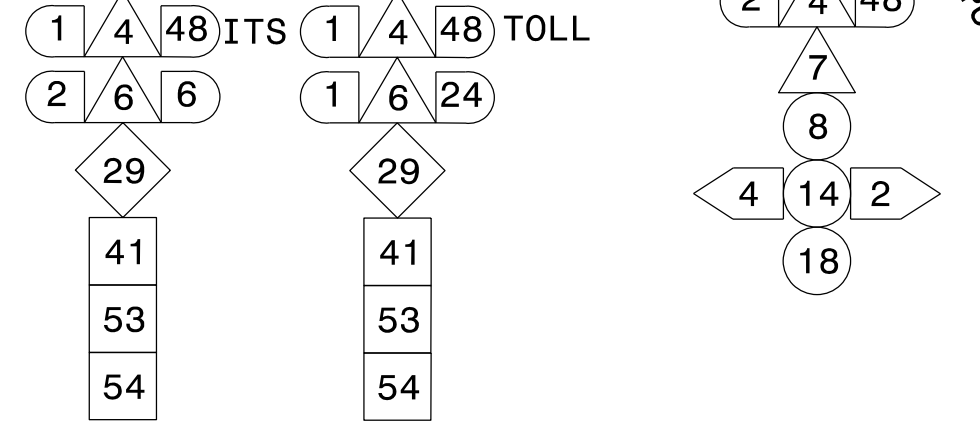


SEE INSET A

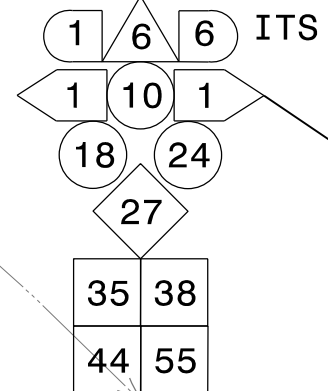
SEE NOTES 4 & 5



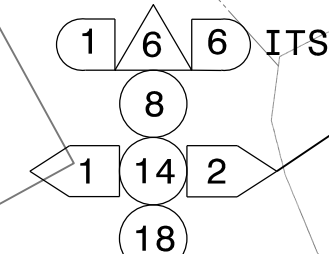
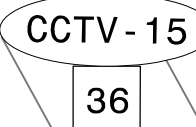
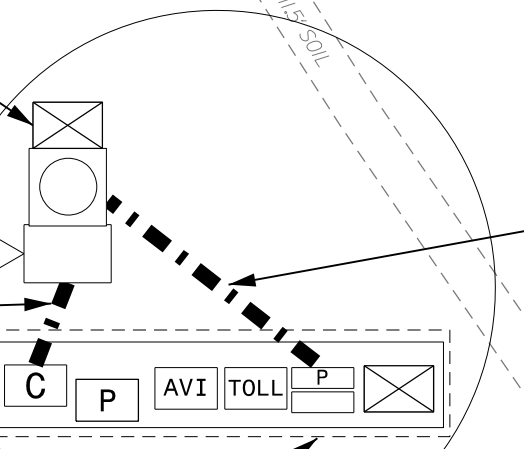
See Special Detail for conduit & fiber optic cable into AET Vaults (SD-01)



SEE NOTE 8



INSET A



SEE NOTE 7

See Sheets E-1 & E-4 for details for typical "B" pad

PLANS PREPARED BY:  
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ENGINEERS - PLANNERS - SCIENTISTS  
DRMP INC.  
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CHARLOTTE, NC 28210  
NC LICENSE NO. CC-0213 - 1704 332-2269

Prepared for the Offices of:  
**NORTH CAROLINA Turnpike Authority**

**Monroe Bypass - ITS Plans Communications Cable & Conduit Routing Plans**

Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
REVISIONS	INIT.	DATE

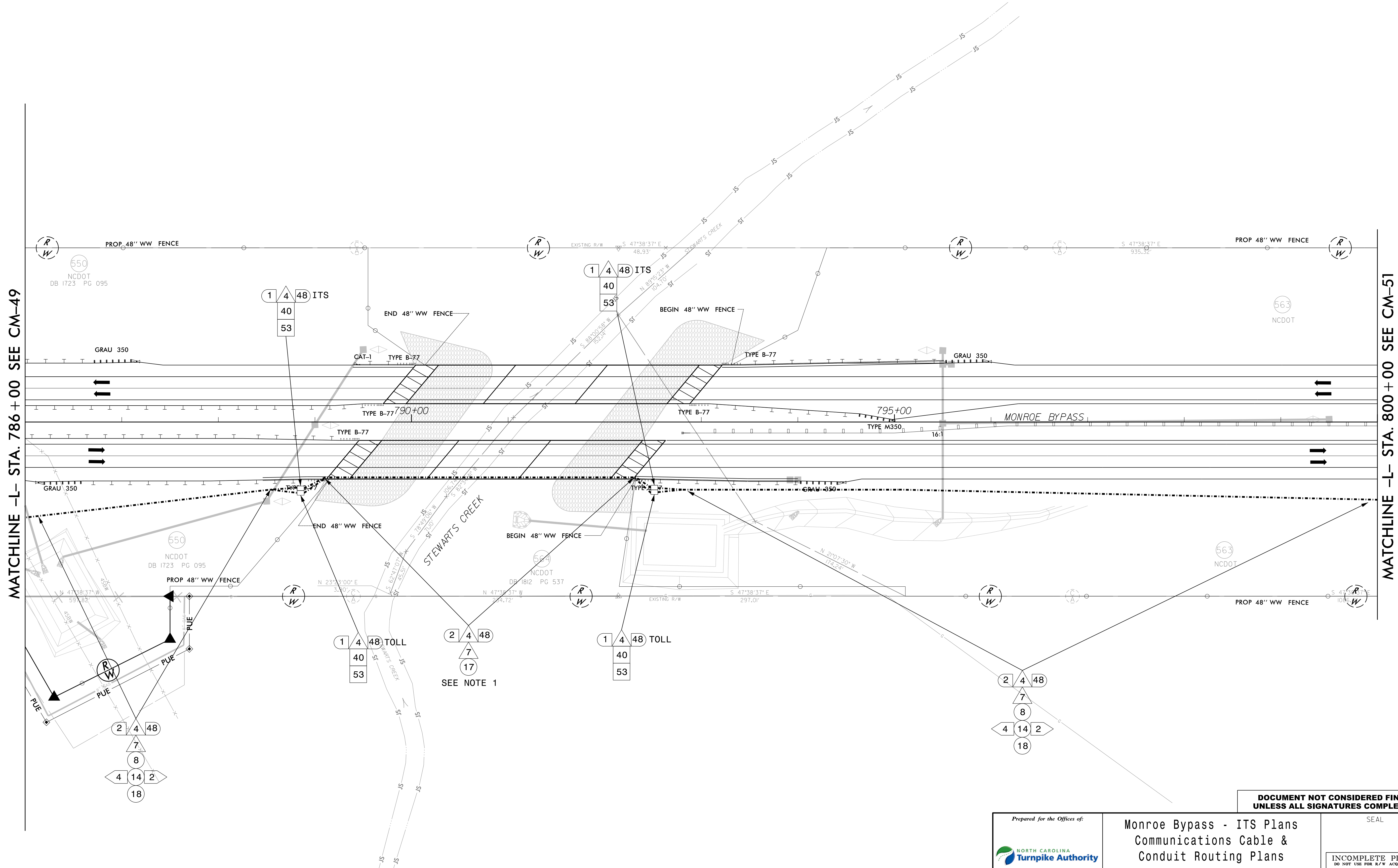
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MATCHLINE -L- STA. 786+00 SEE CM-49

MATCHLINE -L- STA. 800+00 SEE CM-51

**NOTES**

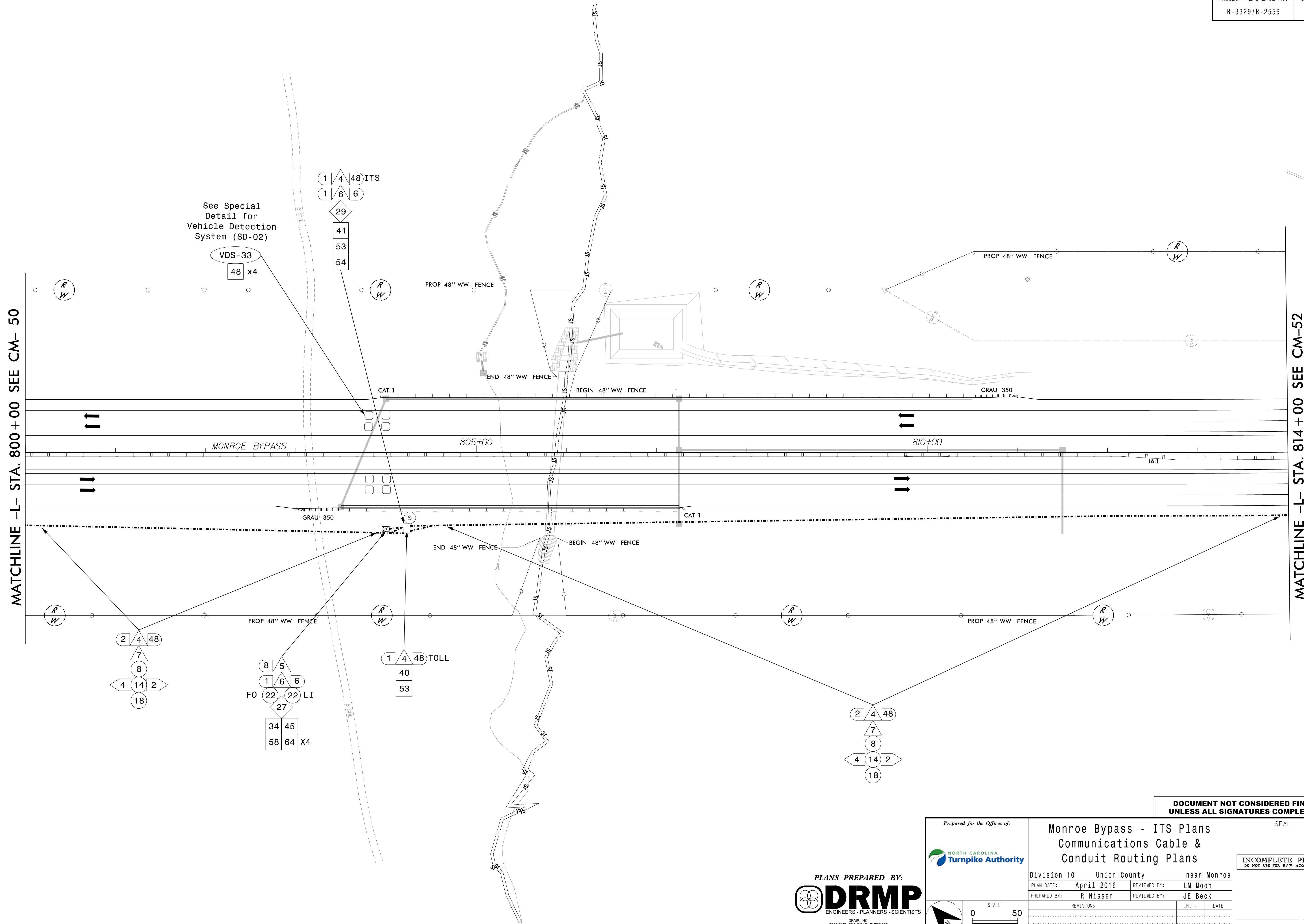
1. FIND AND INTERCEPT BRIDGE MOUNTED CONDUIT SYSTEM AND EXTEND CONDUIT OUTSIDE OF PAVED SHOULDER. CONTRACTOR SHALL COORDINATE CONDUIT PLACEMENT TO AVOID CONDUIT DAMAGE UNDER PROPOSED GUARDRAIL.

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	<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>		SEAL
	Division 10 Union County near Monroe	PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVISIONS	REVIEWED BY: JE Beck	DATE
SCALE 0 50 1"=50'	REVISIONS	INIT.	DATE
CADD File name:			

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DRMP INC.  
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CHARLOTTE, NC 28210  
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28-APR-2016 09:00 PLAN SHEETS R3329-R2559-ITS-P5H-050.dgn



MATCHLINE -L- STA. 800 + 00 SEE CM-50

MATCHLINE -L- STA. 814 + 00 SEE CM-52

See Special Detail for Vehicle Detection System (SD-02)

VDS-33  
48 x4

1 4 48 ITS  
1 6 6  
29  
41  
53  
54

2 4 48  
7  
8  
4 14 2  
18

8 5  
1 6 6  
FO 22 22 LI  
27  
34 45  
58 64 X4

1 4 48 TOLL  
40  
53

2 4 48  
7  
8  
4 14 2  
18

18-APR-2016 09:00 PLAN SHEETS IR3329\_R2559\_ITS\_PSH\_051.dgn

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CHARLOTTE, NC 28210  
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Prepared for the Offices of:  
  
 NORTH CAROLINA  
 Turnpike Authority

**Monroe Bypass - ITS Plans  
Communications Cable &  
Conduit Routing Plans**

Division 10 Union County near Monroe

PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVIEWED BY: JE Beck

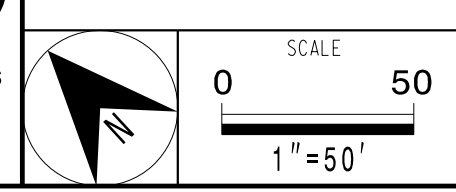
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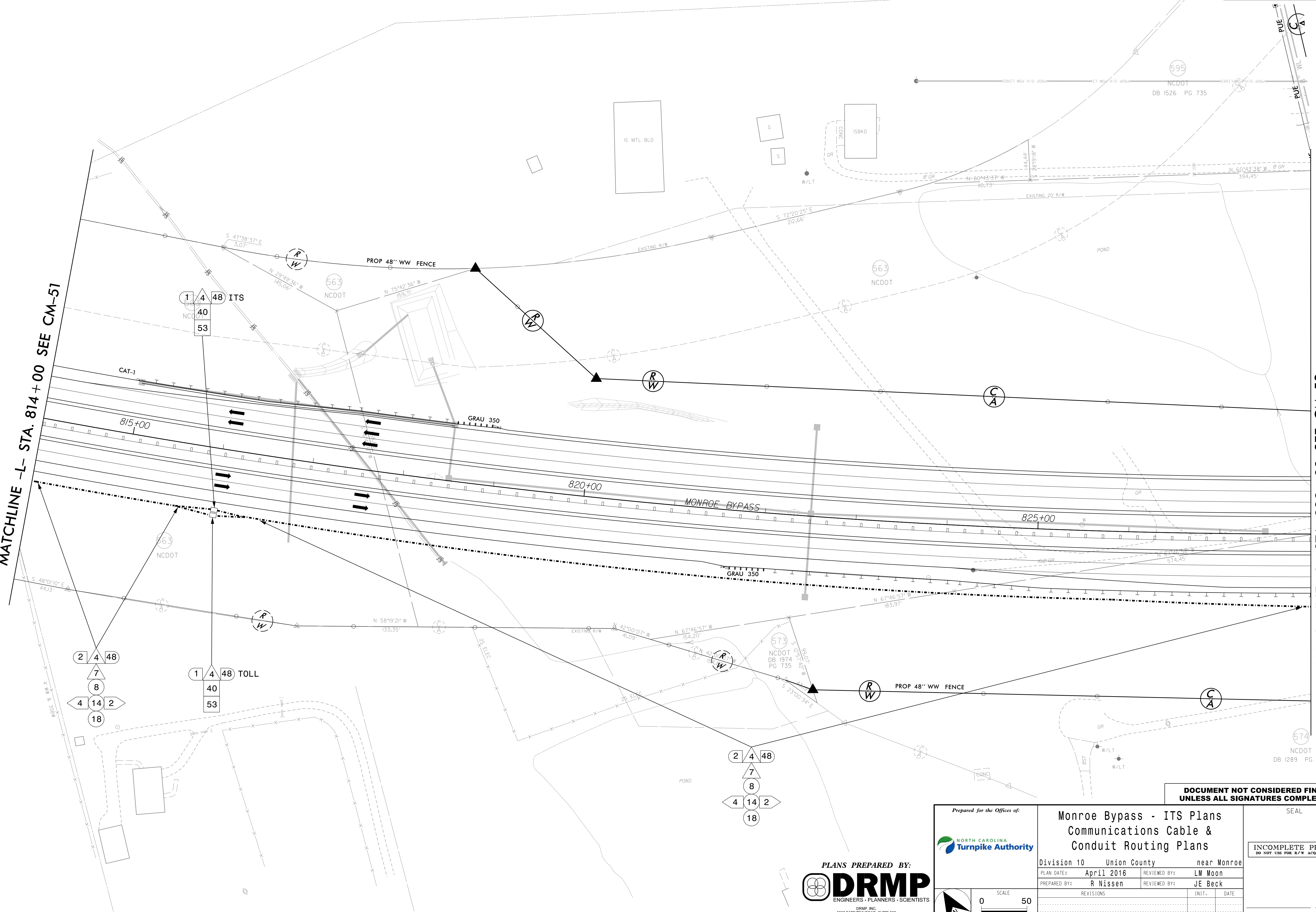
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MATCHLINE -L- STA. 814+00 SEE CM-51

MATCHLINE -L- STA. 828+00 SEE CM-53



28-APR-2016 09:00 PLAN SHEETS R3329-R2559-ITS-PSH-052.dgn

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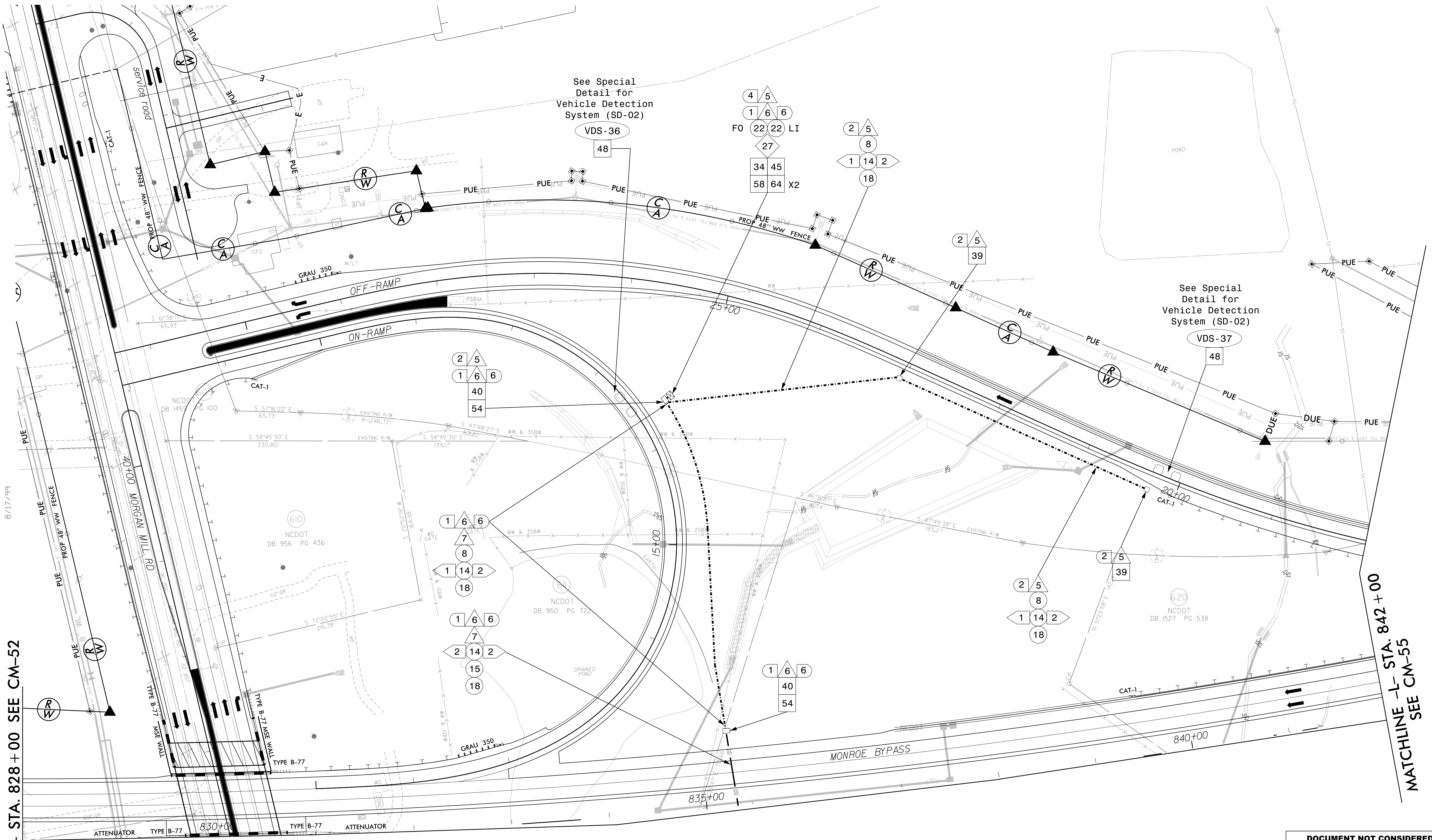
	<b>Monroe Bypass - ITS Plans</b> Communications Cable & Conduit Routing Plans		SEAL
	Division 10 Union County near Monroe		
PLAN DATE: April 2016	REVIEWED BY: LM Moon		
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT. DATE		
0 SCALE 50 1"=50'			
CADD Filename:			DATE

PLANS PREPARED BY:

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ENGINEERS • PLANNERS • SCIENTISTS

DRMP INC.  
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CHARLOTTE, NC 28210  
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MATCHLINE -L- STA. 828 + 00 SEE CM-52

MATCHLINE -L- STA. 842 + 00  
SEE CM-55

MATCHLINE "B"  
STA -Y304- 36 + 18  
SEE CM-54

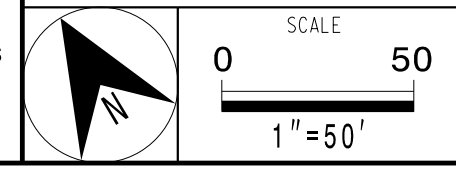
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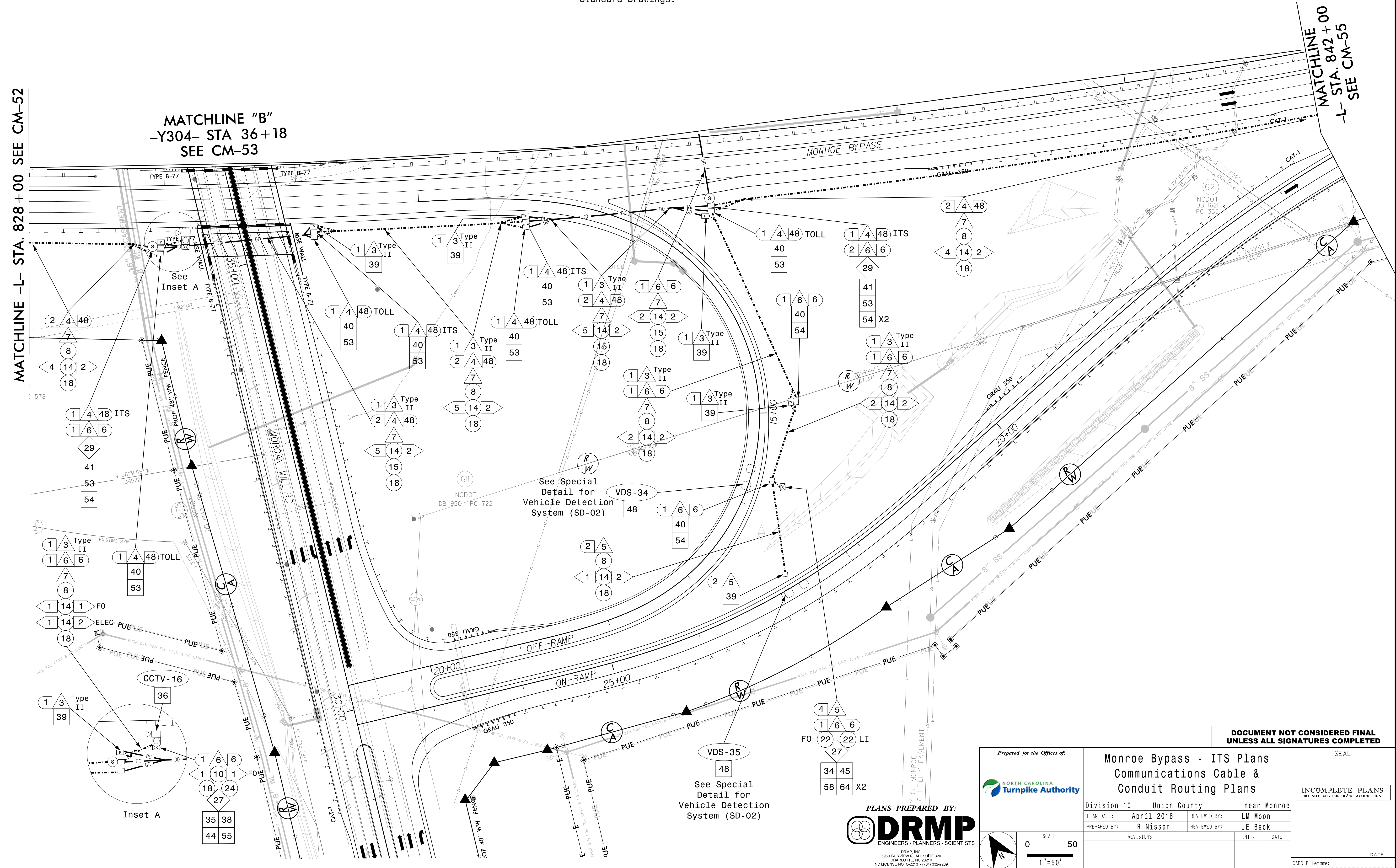
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		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Division 10 Union County near Monroe			
PLAN DATE: April 2016	REVIEWED BY: LM Moon		
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	DATE
CADD File name:			



Notes:  
 1. Electrical service shall share trench, but will be routed to separate junction boxes or to meter/disconnect along route  
 2. Electrical service wires shall be installed between adjacent disconnect and controller cabinet as shown in NCDOT Roadway Standard Drawings.



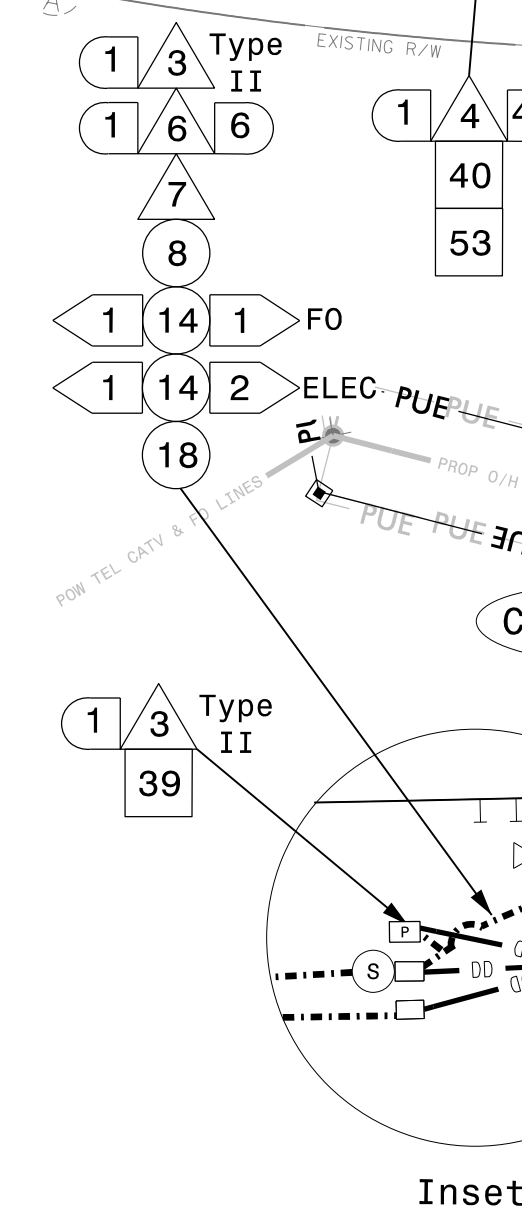
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MATCHLINE "B"  
 -Y304- STA 36+18  
 SEE CM-53

MATCHLINE  
 STA. 842 + 00  
 -L- SEE CM-55

578

28-APR-2016 09:10 g:\a\p\c\3329\AN SHEETS\R3329-R2559-ITS\_PSH\_054.dgn



Inset A

See Special Detail for Vehicle Detection System (SD-02)

See Special Detail for Vehicle Detection System (SD-02)

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**Monroe Bypass - ITS Plans Communications Cable & Conduit Routing Plans**

Division 10 Union County near Monroe

PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVIEWED BY: JE Beck
REVISIONS	INIT. DATE

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1" = 50'

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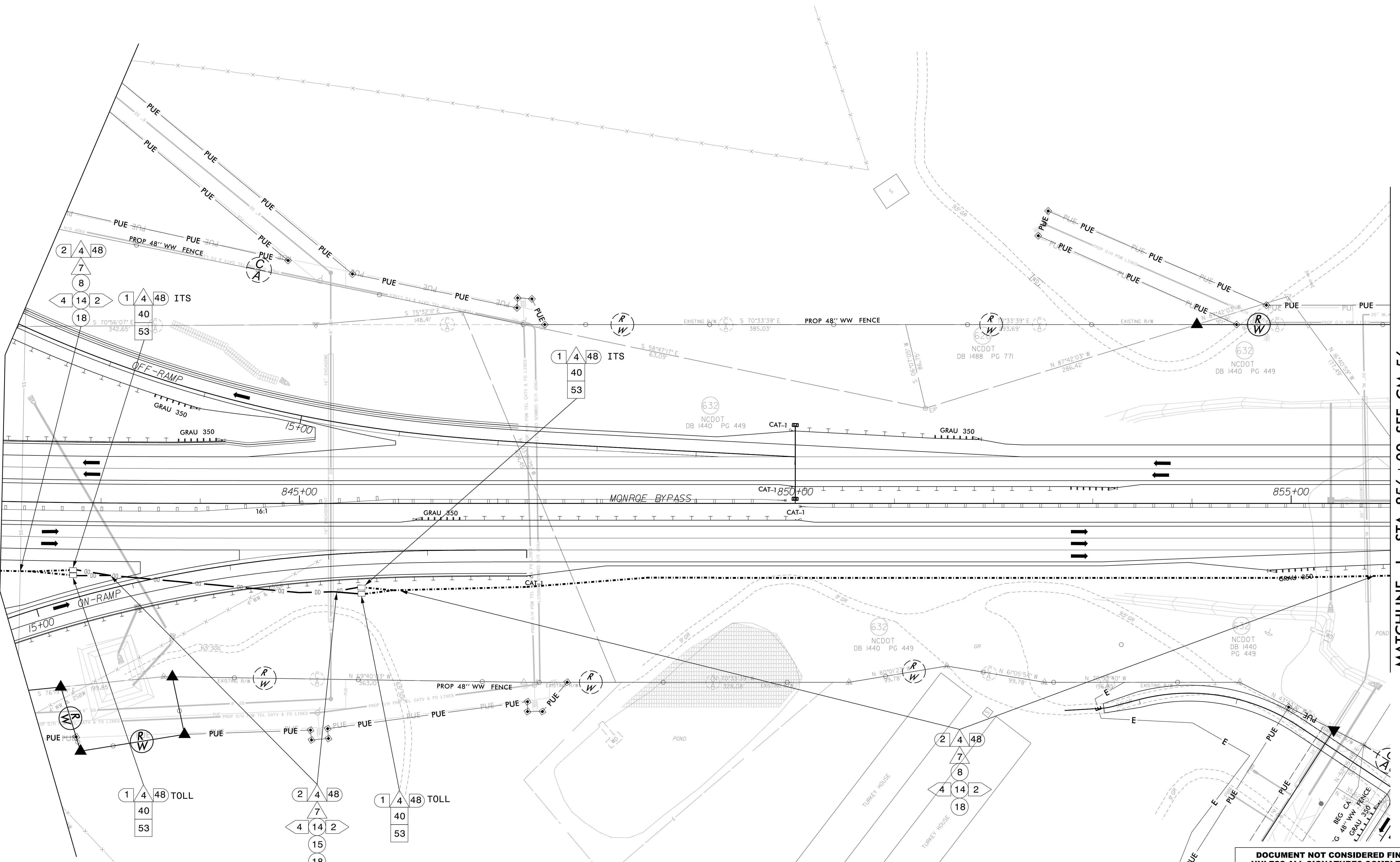
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DO NOT USE FOR R/W ACQUISITION

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MATCHLINE -L- STA. 842+00 SEE CM-54

MATCHLINE -L- STA. 856+00 SEE CM-56



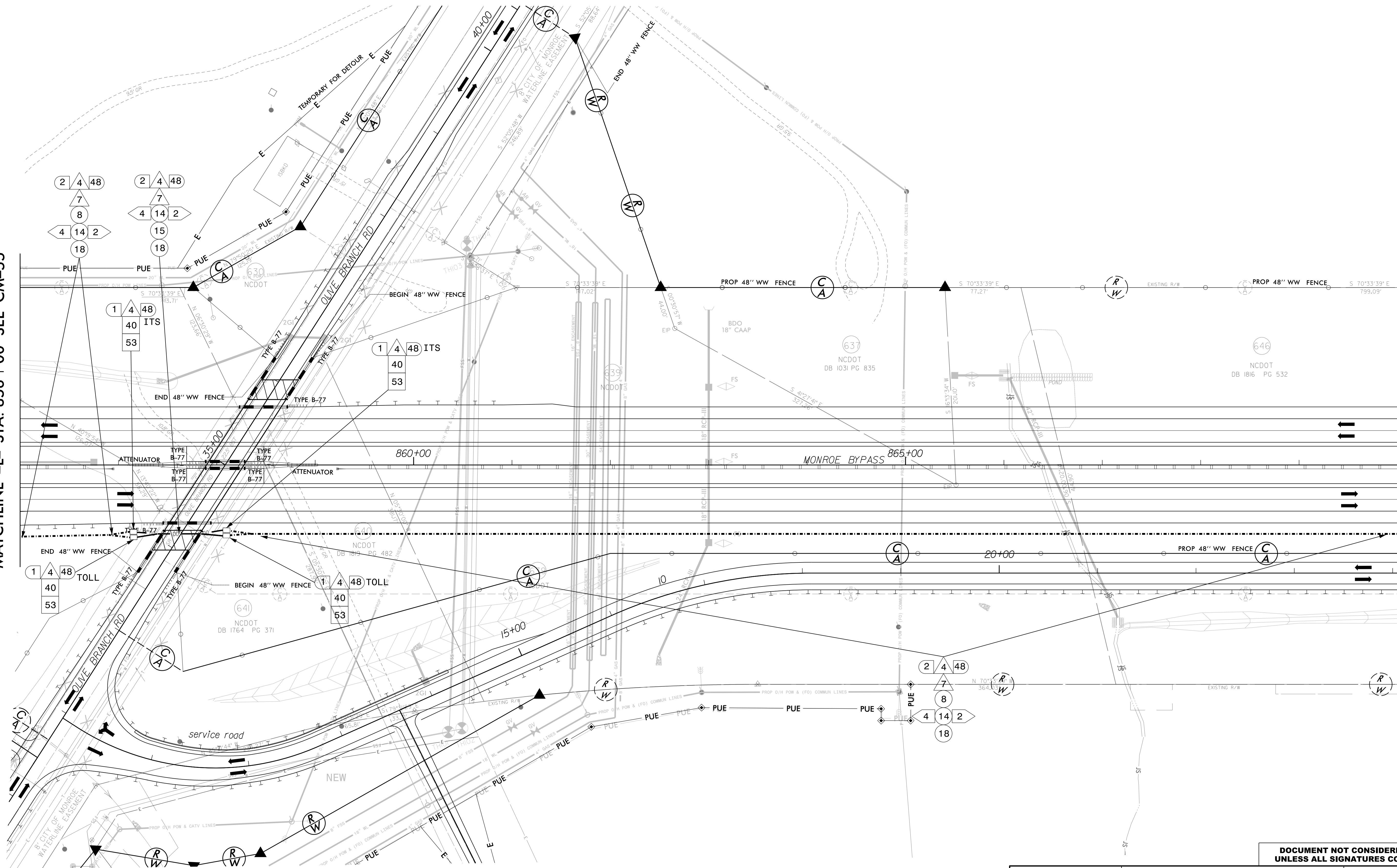
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	<p>Division 10 Union County near Monroe</p> <p>PLAN DATE: April 2016 REVIEWED BY: LM Moon</p> <p>PREPARED BY: R Nissen REVIEWED BY: JE Beck</p>		<p>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</p>								
<p>PLANS PREPARED BY:</p> <p><b>DRMP</b> ENGINEERS • PLANNERS • SCIENTISTS</p> <p><small>DRMP INC. 5650 FAIRVIEW ROAD, SUITE 320 CHARLOTTE, NC 28210 NC LICENSE NO. C-2213 • (704) 332-2289</small></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> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE					
REVISIONS	INIT.	DATE									
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MATCHLINE -L- STA. 856+00 SEE CM-55

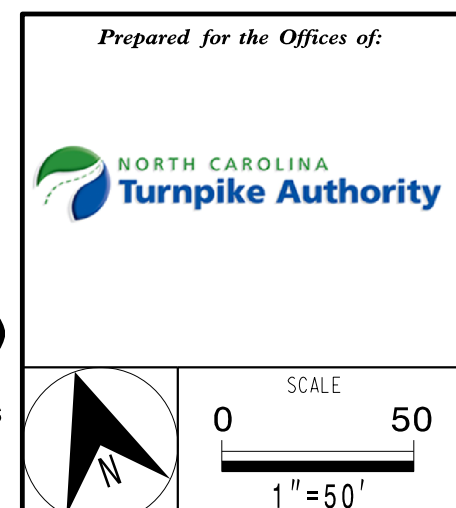
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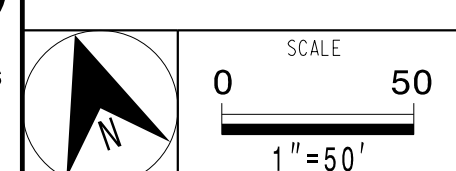
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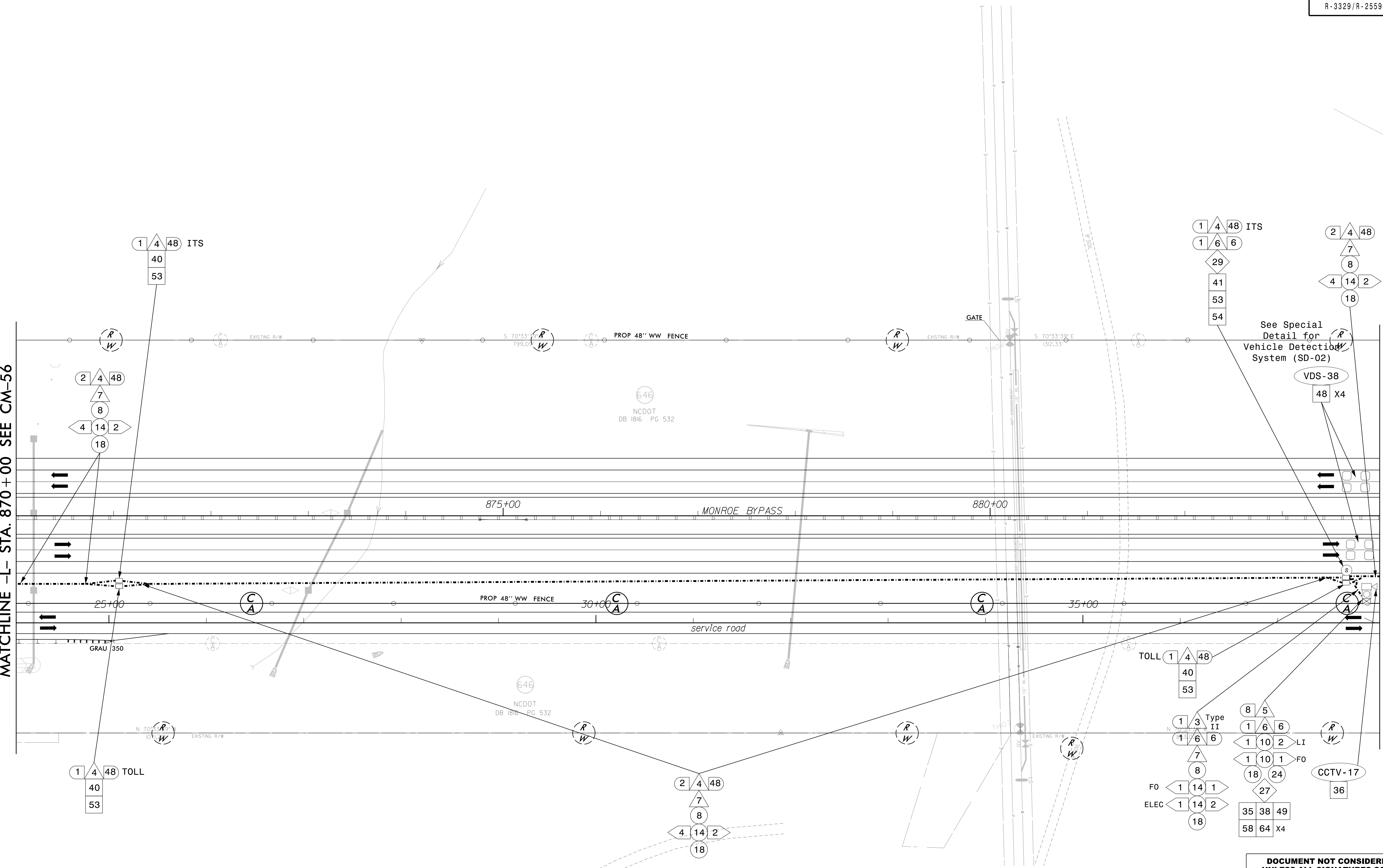
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Division 10 Union County near Monroe				INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION
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REVISIONS	INIT.	DATE		
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MATCHLINE -L- STA. 870+00 SEE CM-56

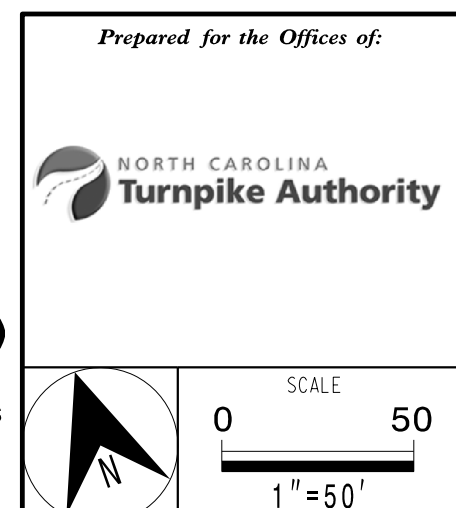
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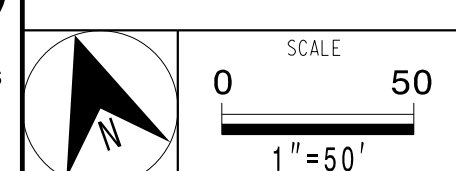
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**Communications Cable & Conduit Routing Plans**  
 Division 10 Union County near Monroe  
 PLAN DATE: April 2016 REVIEWED BY: LM Moon  
 PREPARED BY: R Nissen REVIEWED BY: JE Beck

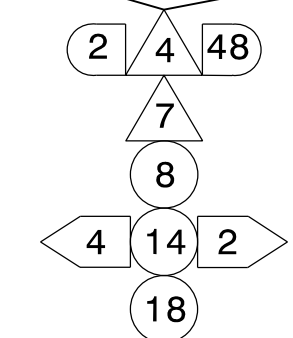
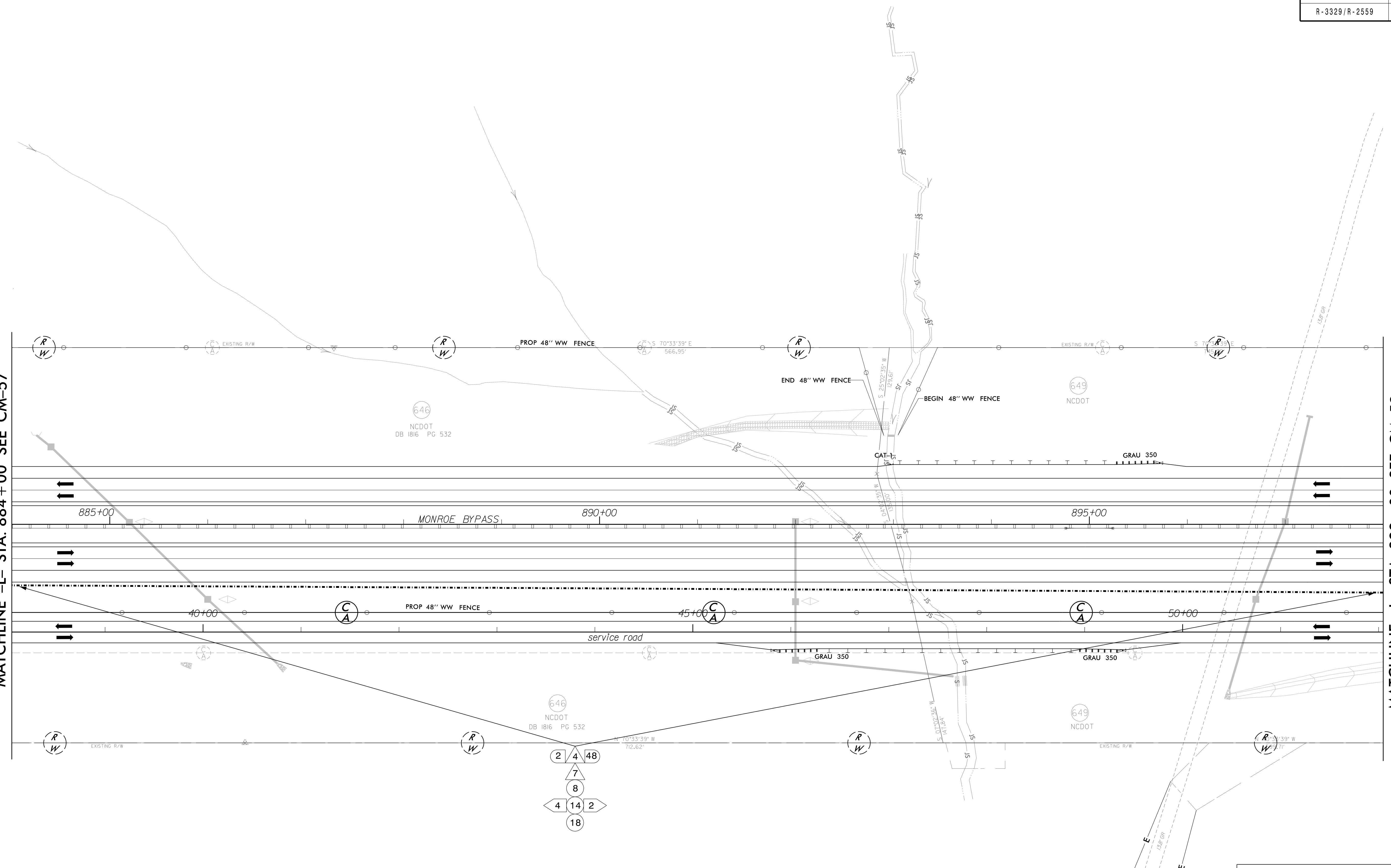
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REVISIONS	INIT.	DATE

MATCHLINE -L- STA. 884 + 00 SEE CM-57

MATCHLINE -L- STA. 898 + 00 SEE CM-59



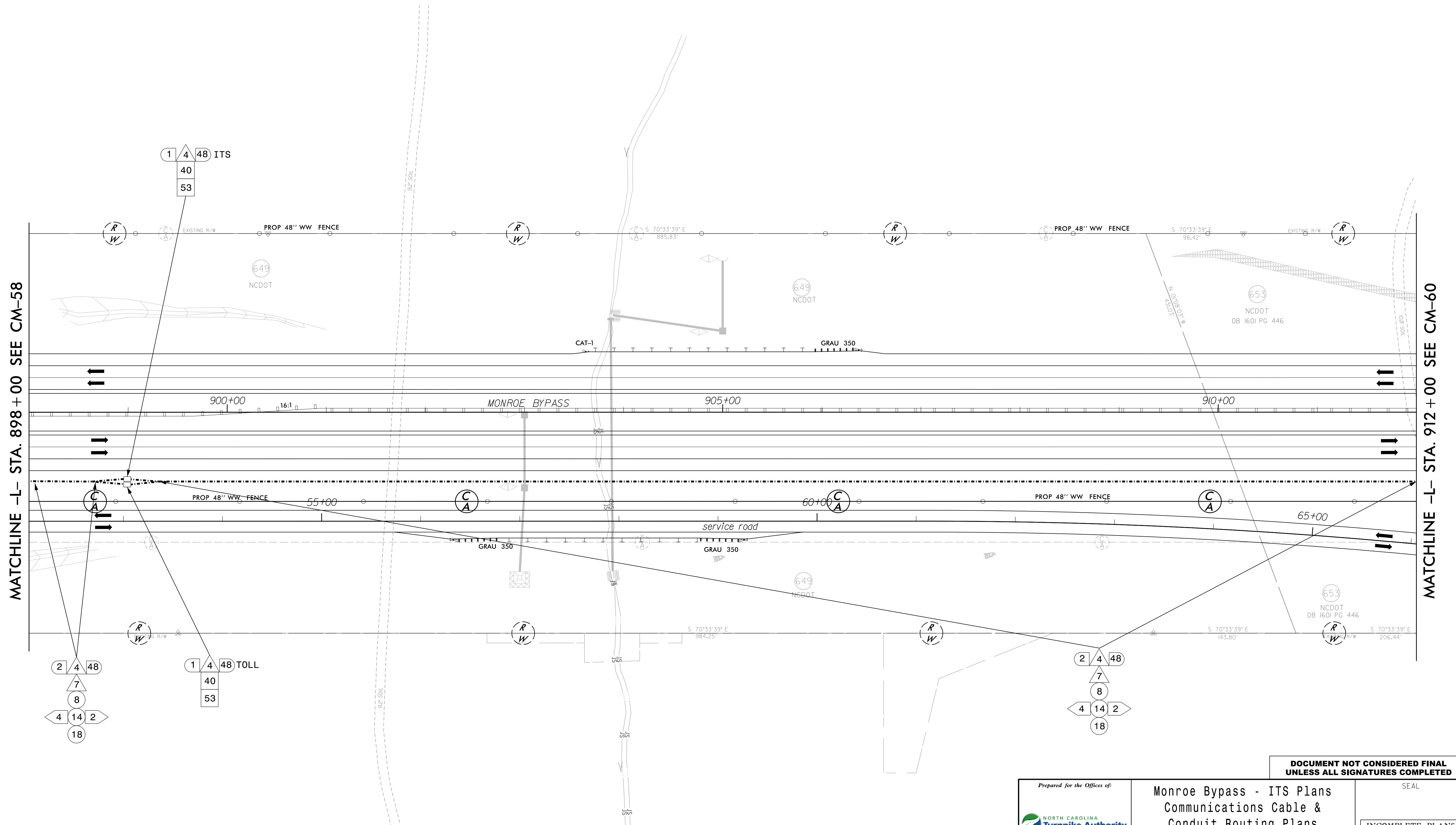
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Monroe Bypass - ITS Plans Communications Cable & Conduit Routing Plans		SEAL
Division 10 Union County near Monroe		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION
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PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
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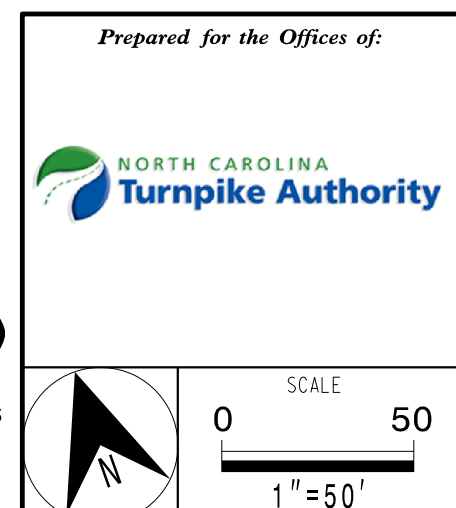
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MATCHLINE -L- STA. 912+00 SEE CM-60

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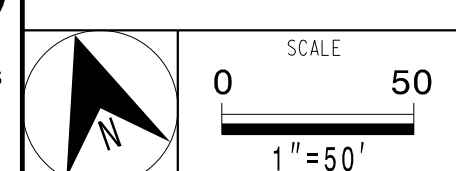
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Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
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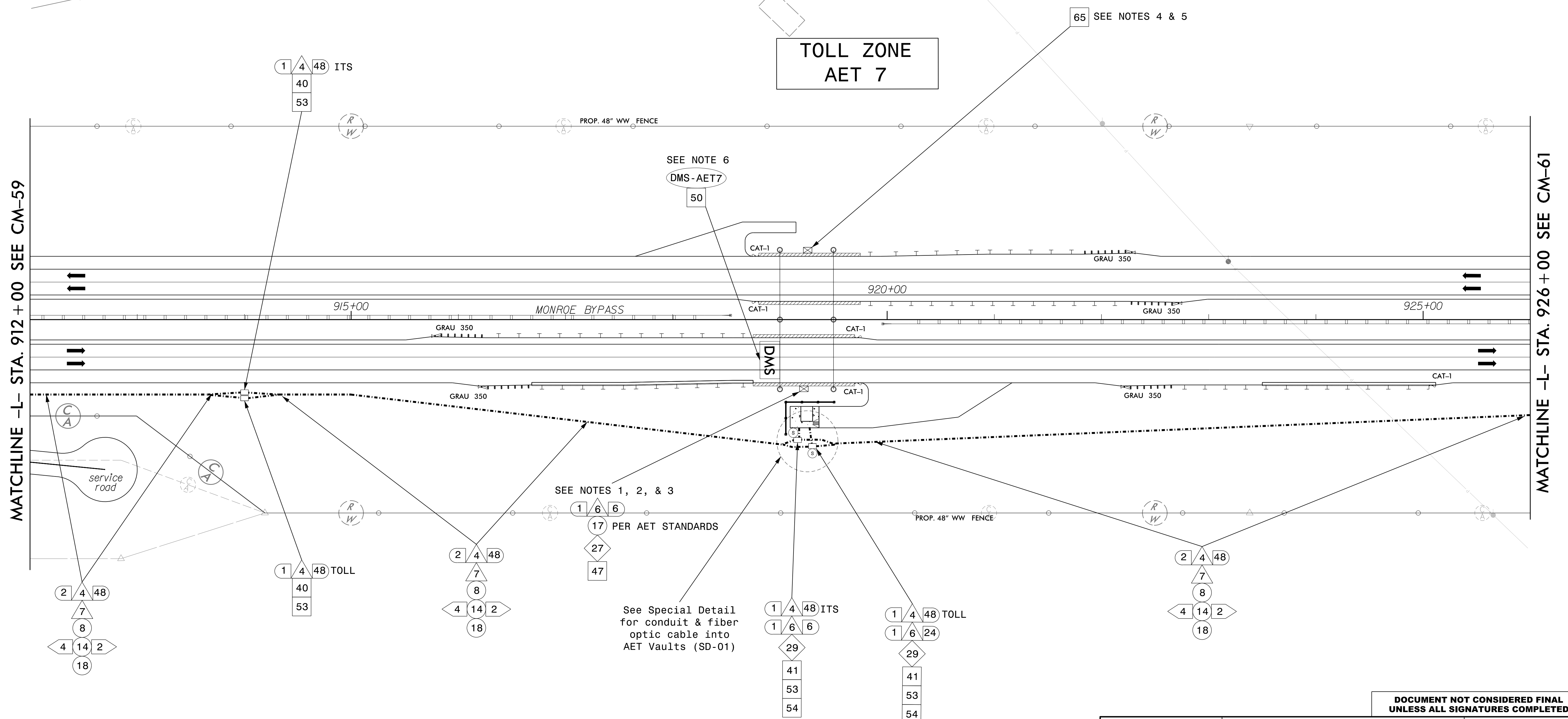
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CADD File name:



NOTES

1. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "D".
2. INSTALL POWER SERVICE CABLES IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "D"
3. INSTALL DROP CABLE IN COMMUNICATIONS NETWORK CONDUIT/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "D"
4. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "B".
5. ENSURE FUTURE POWER SERVICE CABLES CAN BE INSTALLED IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
6. INSTALL DMS AS SHOWN IN NCTA ITS STANDARD DETAILS, DATED 10-7-2014, SHEETS D-1, D-2A, D3 AND D-4



MATCHLINE -L- STA. 912 + 00 SEE CM-59

MATCHLINE -L- STA. 926 + 00 SEE CM-61

SEE NOTES 1, 2, & 3  
1/6/6  
17 PER AET STANDARDS  
27  
47

See Special Detail for conduit & fiber optic cable into AET Vaults (SD-01)

65 SEE NOTES 4 & 5

**TOLL ZONE  
AET 7**

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**Monroe Bypass - ITS Plans  
Communications Cable &  
Conduit Routing Plans**

Division 10 Union County near Monroe

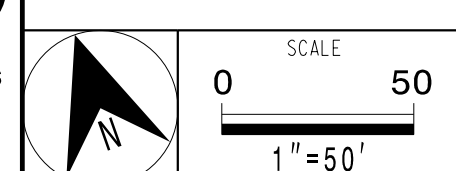
PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVIEWED BY: JE Beck
REVISIONS	INIT. DATE

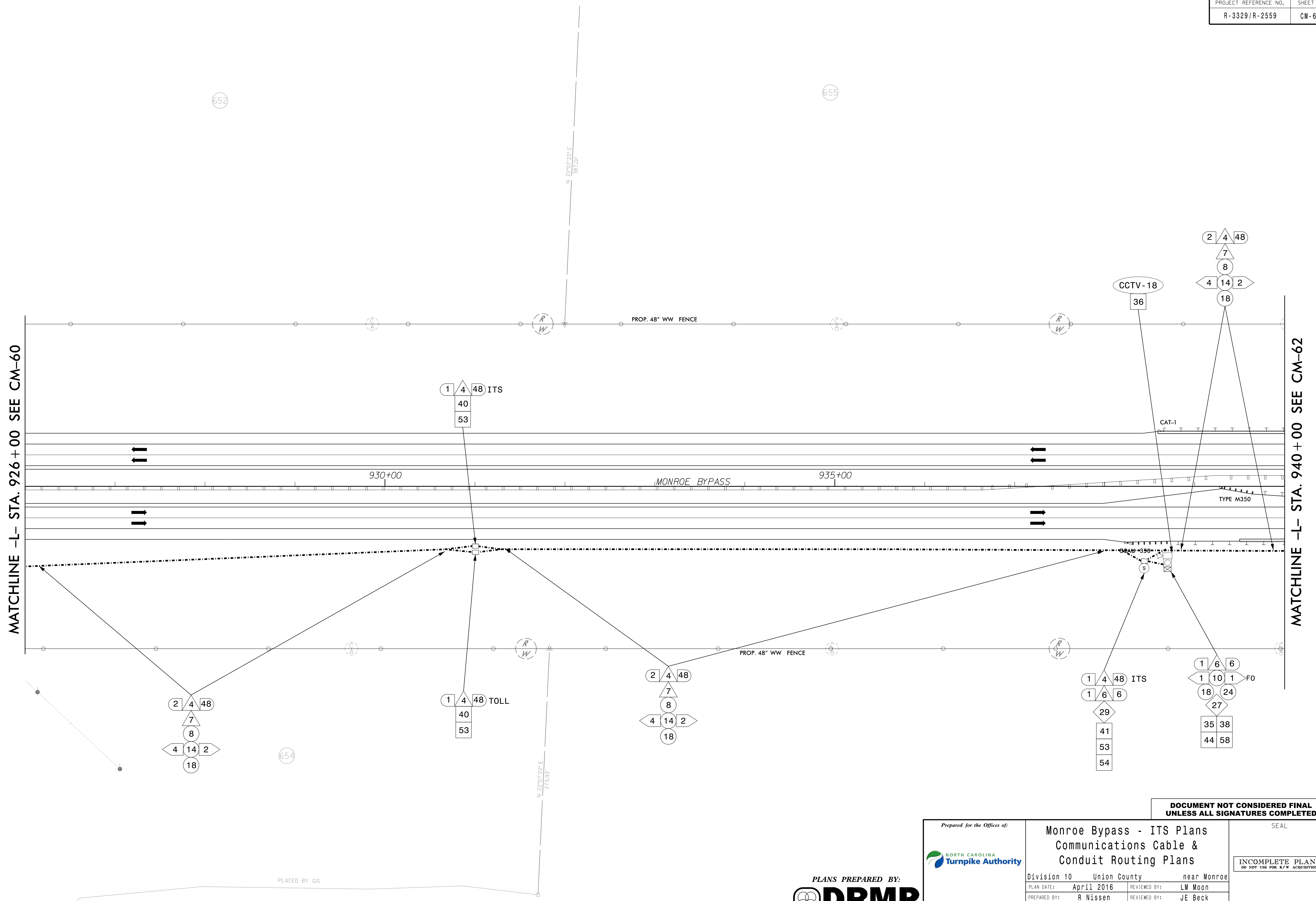
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MATCHLINE -L- STA. 926 + 00 SEE CM-60

MATCHLINE -L- STA. 940 + 00 SEE CM-62

28-APR-2016 09:42 AN SHEETS IR3329\_R2559\_ITS\_PSH\_061.dgn  
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Division 10 Union County near Monroe

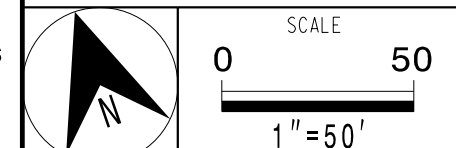
PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVIEWED BY: JE Beck
REVISIONS	INIT. DATE

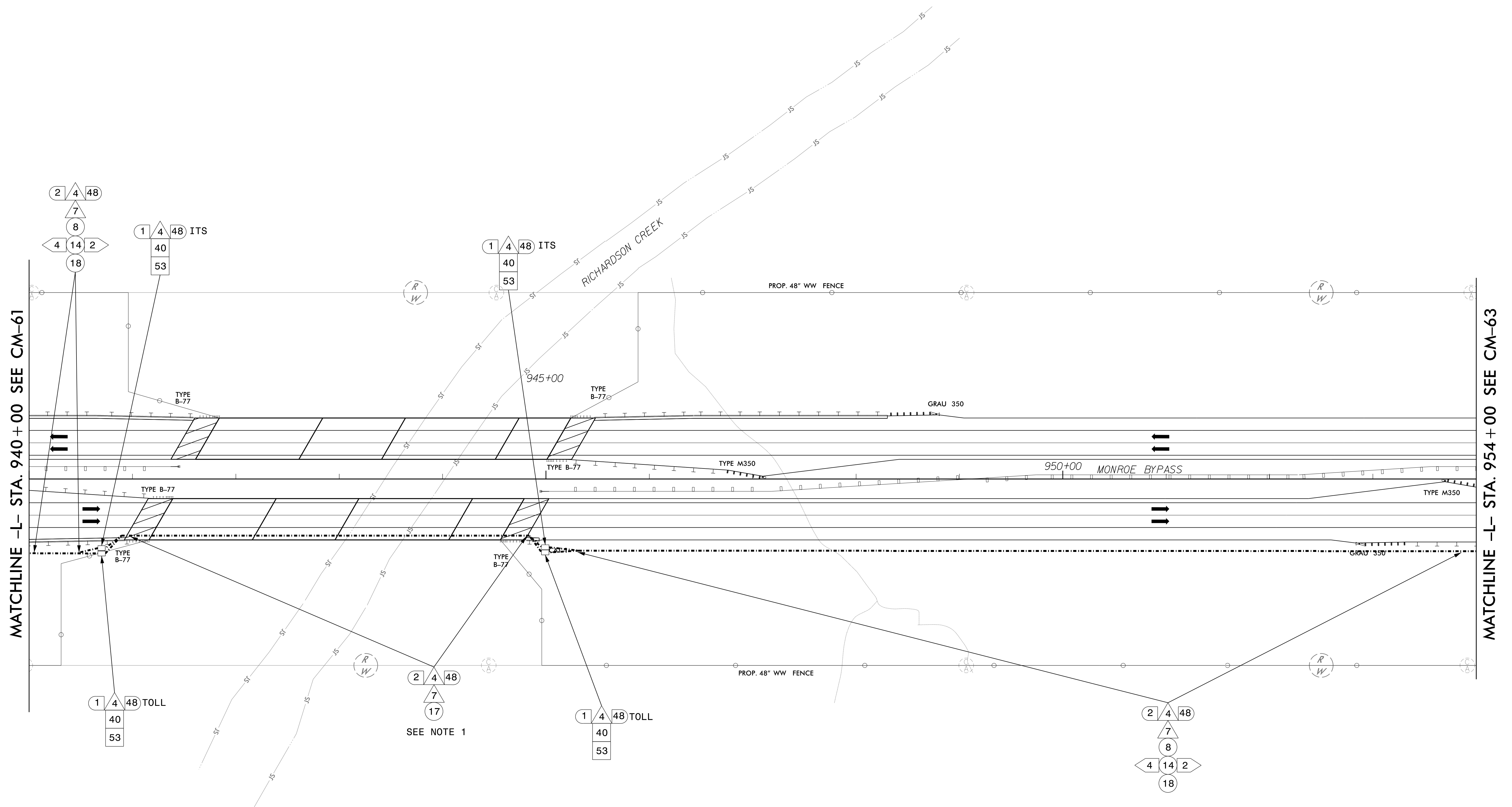
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DATE

CADD File name:





MATCHLINE -L- STA. 940+00 SEE CM-61

MATCHLINE -L- STA. 954+00 SEE CM-63

**NOTES**

1. FIND AND INTERCEPT BRIDGE MOUNTED CONDUIT SYSTEM AND EXTEND CONDUIT OUTSIDE OF PAVED SHOULDER. CONTRACTOR SHALL COORDINATE CONDUIT PLACEMENT TO AVOID CONDUIT DAMAGE UNDER PROPOSED GUARDRAIL.

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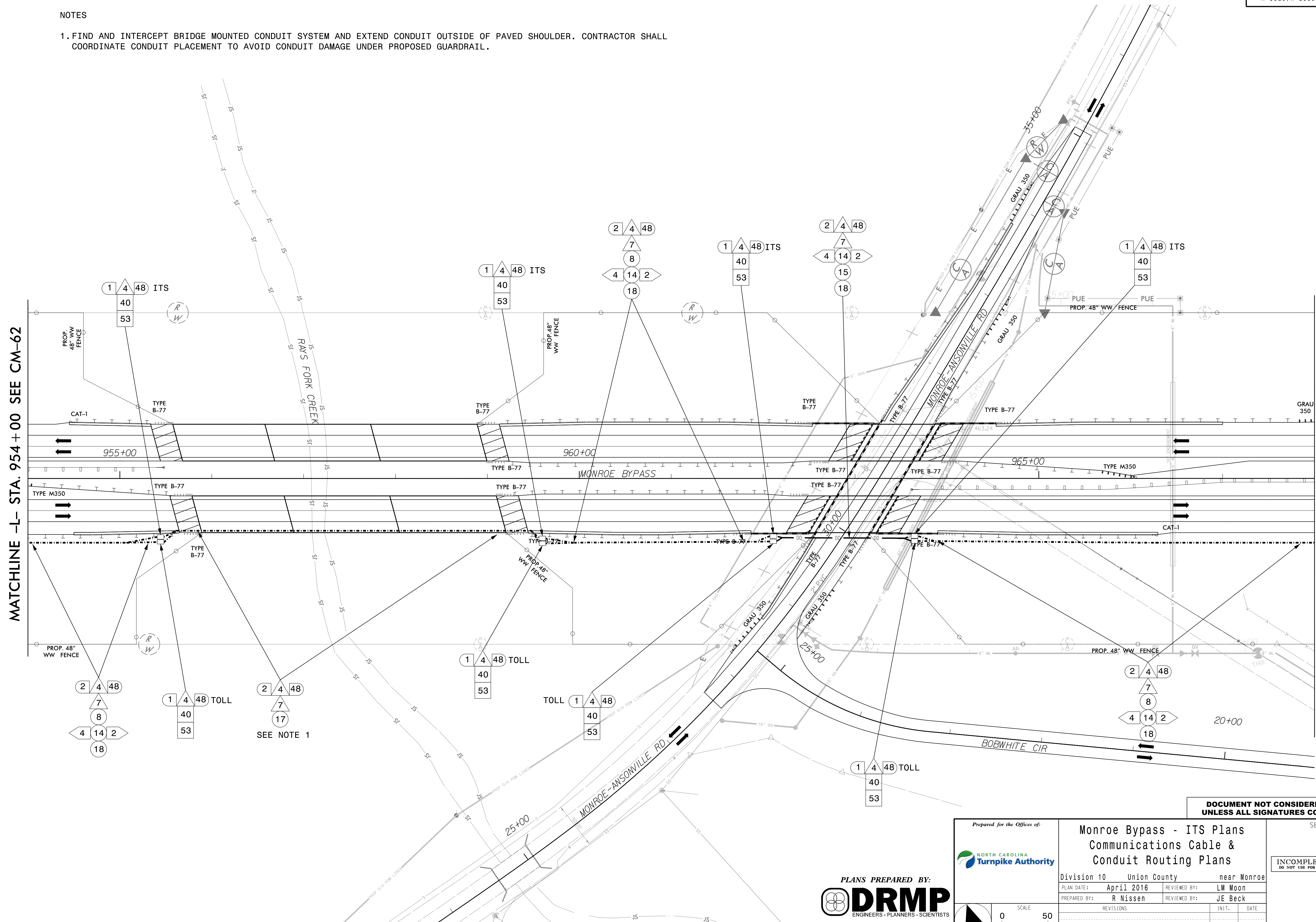
	<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>		SEAL  INCOMPLETE PLANS <small>DO NOT USE FOR R/W ACQUISITION</small>
	Division 10 Union County near Monroe		
PLAN DATE: April 2016	REVIEWED BY: LM Moon		
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	
SCALE 			DATE
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NOTES

1. FIND AND INTERCEPT BRIDGE MOUNTED CONDUIT SYSTEM AND EXTEND CONDUIT OUTSIDE OF PAVED SHOULDER. CONTRACTOR SHALL COORDINATE CONDUIT PLACEMENT TO AVOID CONDUIT DAMAGE UNDER PROPOSED GUARDRAIL.



MATCHLINE -L- STA. 954+00 SEE CM-62

MATCHLINE -L- STA. 968+00 SEE CM-64

SEE NOTE 1

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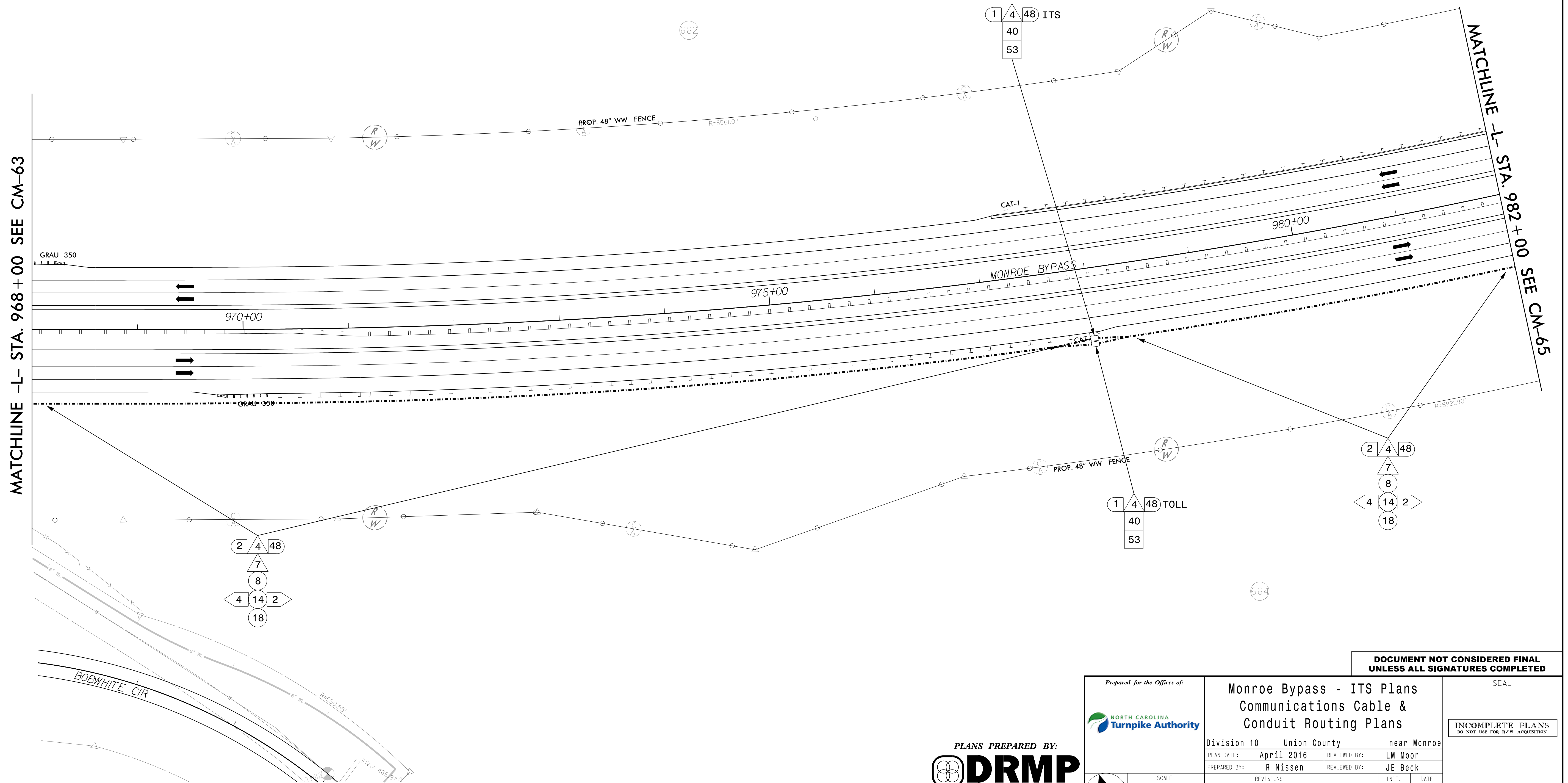
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<p><b>Monroe Bypass - ITS Plans</b>                  Communications Cable &amp;                  Conduit Routing Plans</p>		<p>SEAL</p>
<p>Division 10 Union County near Monroe</p>	<p>PLAN DATE: April 2016</p>	<p>REVIEWED BY: LM Moon</p>
<p>PREPARED BY: R Nissen</p>	<p>REVIEWED BY: JE Beck</p>	<p>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</p>
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<p>REVISIONS</p>	<p>INIT. DATE</p>
<p>DATE</p>	<p>DATE</p>



MATCHLINE -L- STA. 968+00 SEE CM-63

MATCHLINE -L- STA. 982+00 SEE CM-65

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Prepared for the Offices of:

Division 10 Union County near Monroe

PLAN DATE: April 2016 REVIEWED BY: LM Moon

PREPARED BY: R Nissen REVIEWED BY: JE Beck

SCALE: 1" = 50'

REVISIONS	INIT.	DATE

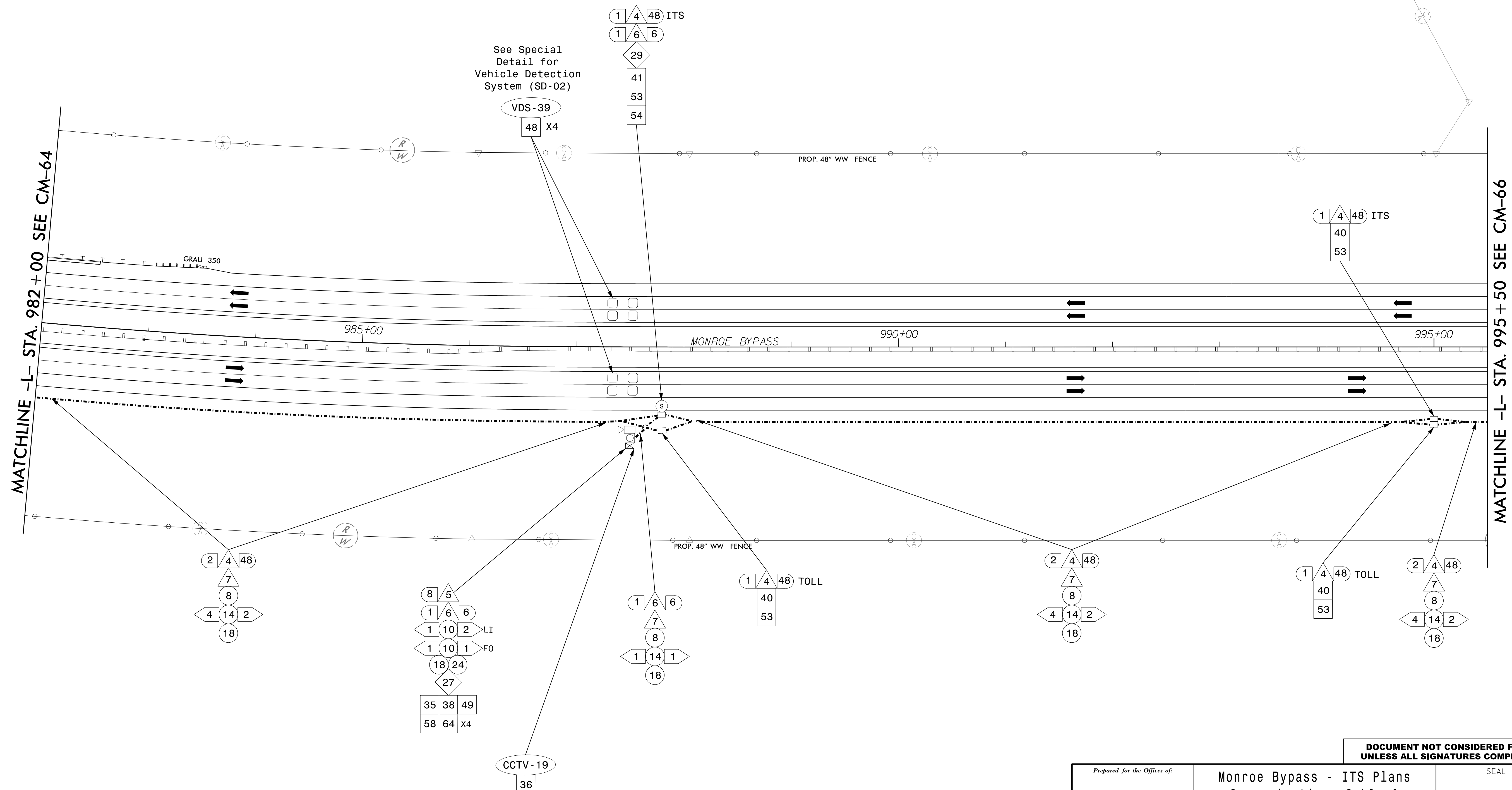
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Division 10 Union County near Monroe

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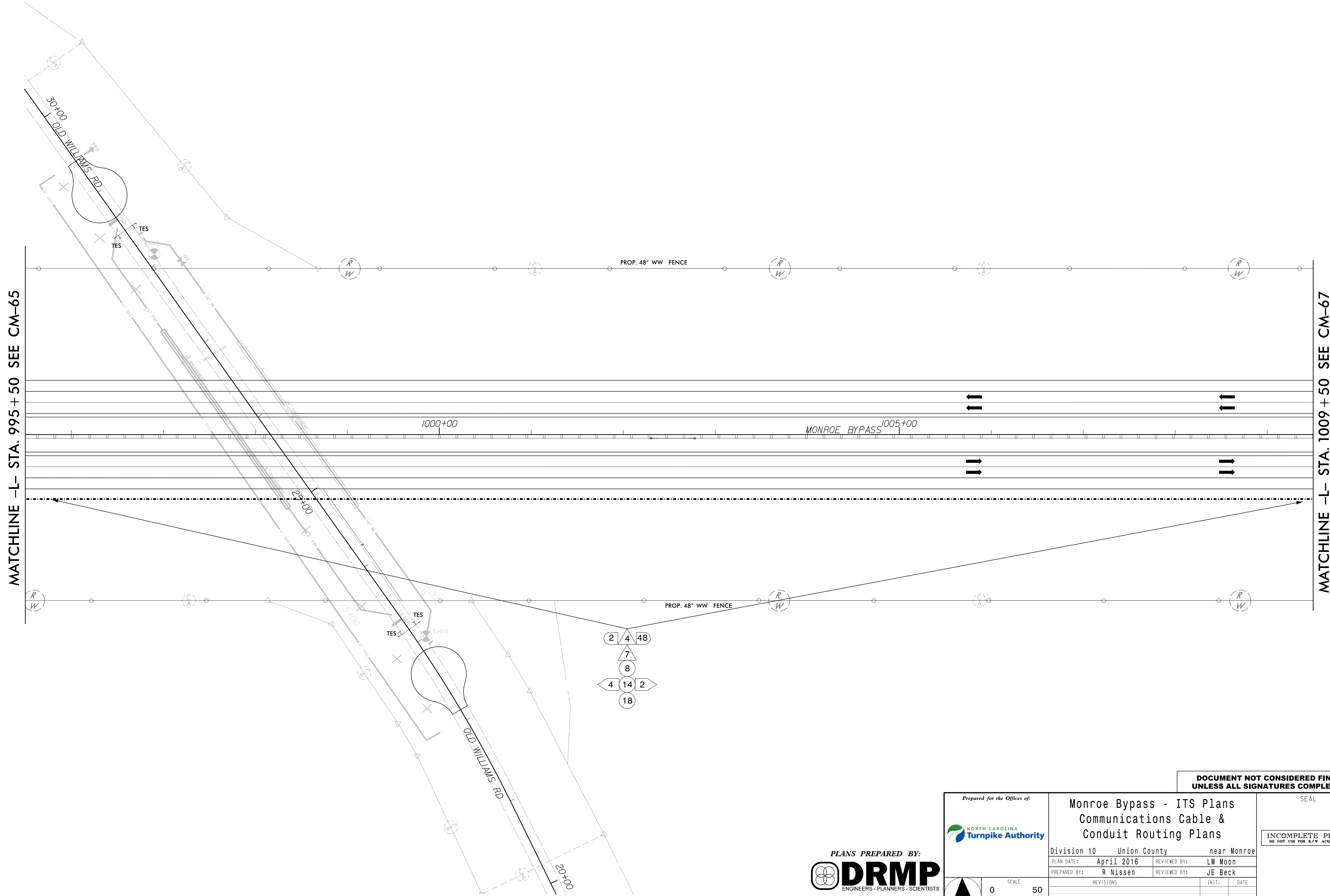
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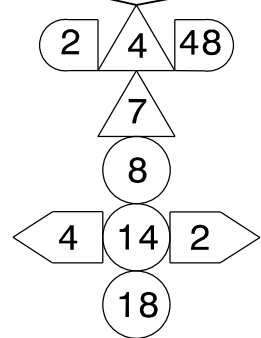
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MATCHLINE -L- STA. 995 + 50 SEE CM-65

MATCHLINE -L- STA. 1009 + 50 SEE CM-67



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 R NISSEN

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REVISIONS	INIT.	DATE	

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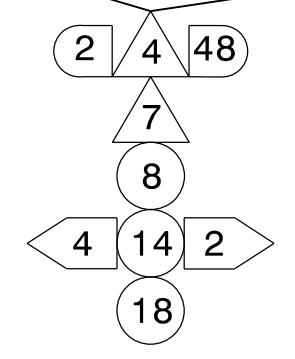
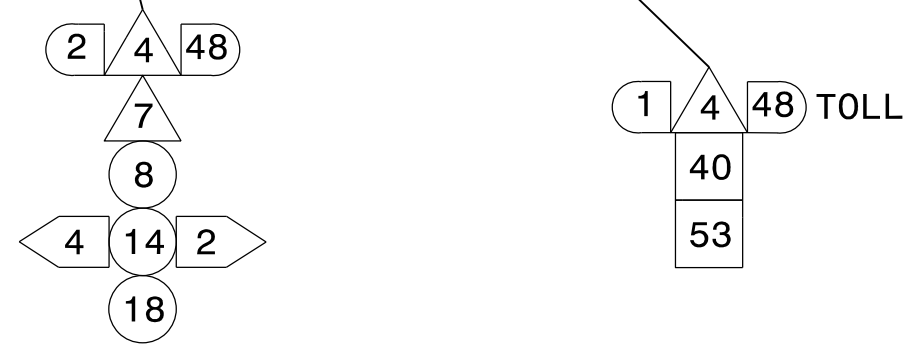
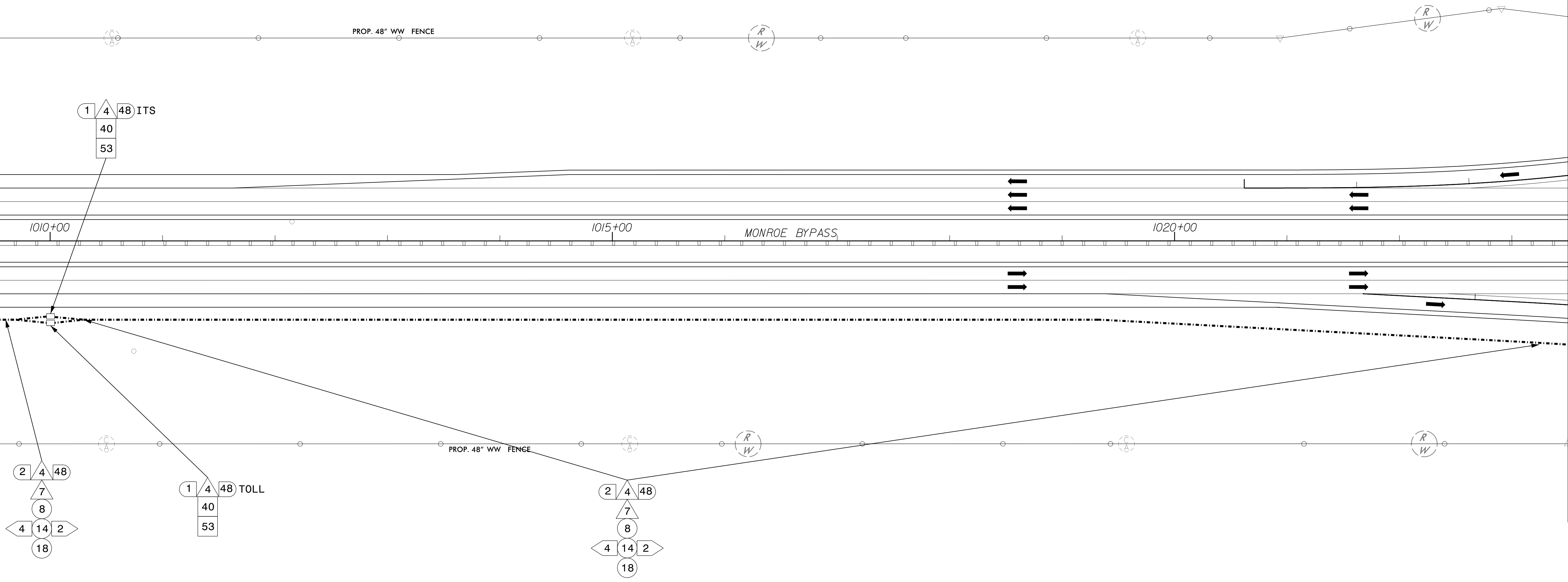
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MATCHLINE -L- STA. 1009 + 50 SEE CM-66

MATCHLINE -L- STA. 1023 + 50 SEE CM-68



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Prepared for the Offices of:

**North Carolina Turnpike Authority**

Division 10 Union County near Monroe

PLAN DATE: April 2016 REVIEWED BY: LM Moon

PREPARED BY: R Nissen REVIEWED BY: JE Beck

SCALE: 1" = 50'

REVISIONS	INIT.	DATE

SEAL

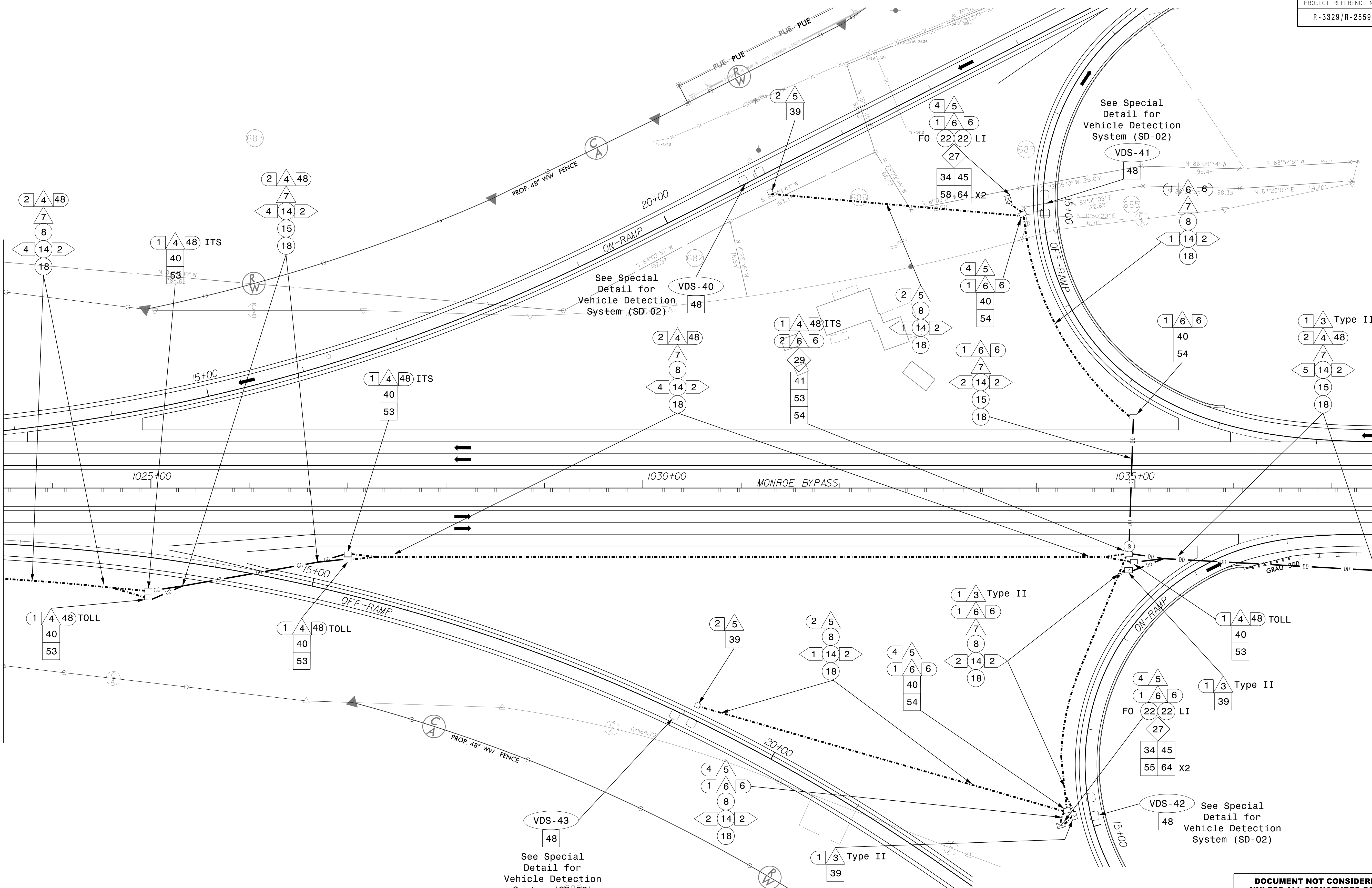
**INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION**

DATE

CADD Filename: \_\_\_\_\_

MATCHLINE -L- STA. 1023 +50 SEE CM-67

MATCHLINE -L- STA. 1037 +50 SEE CM-69



VDS-43  
48  
See Special Detail for Vehicle Detection System (SD-02)

See Special Detail for Vehicle Detection System (SD-02)  
VDS-41  
48

VDS-42  
48  
See Special Detail for Vehicle Detection System (SD-02)

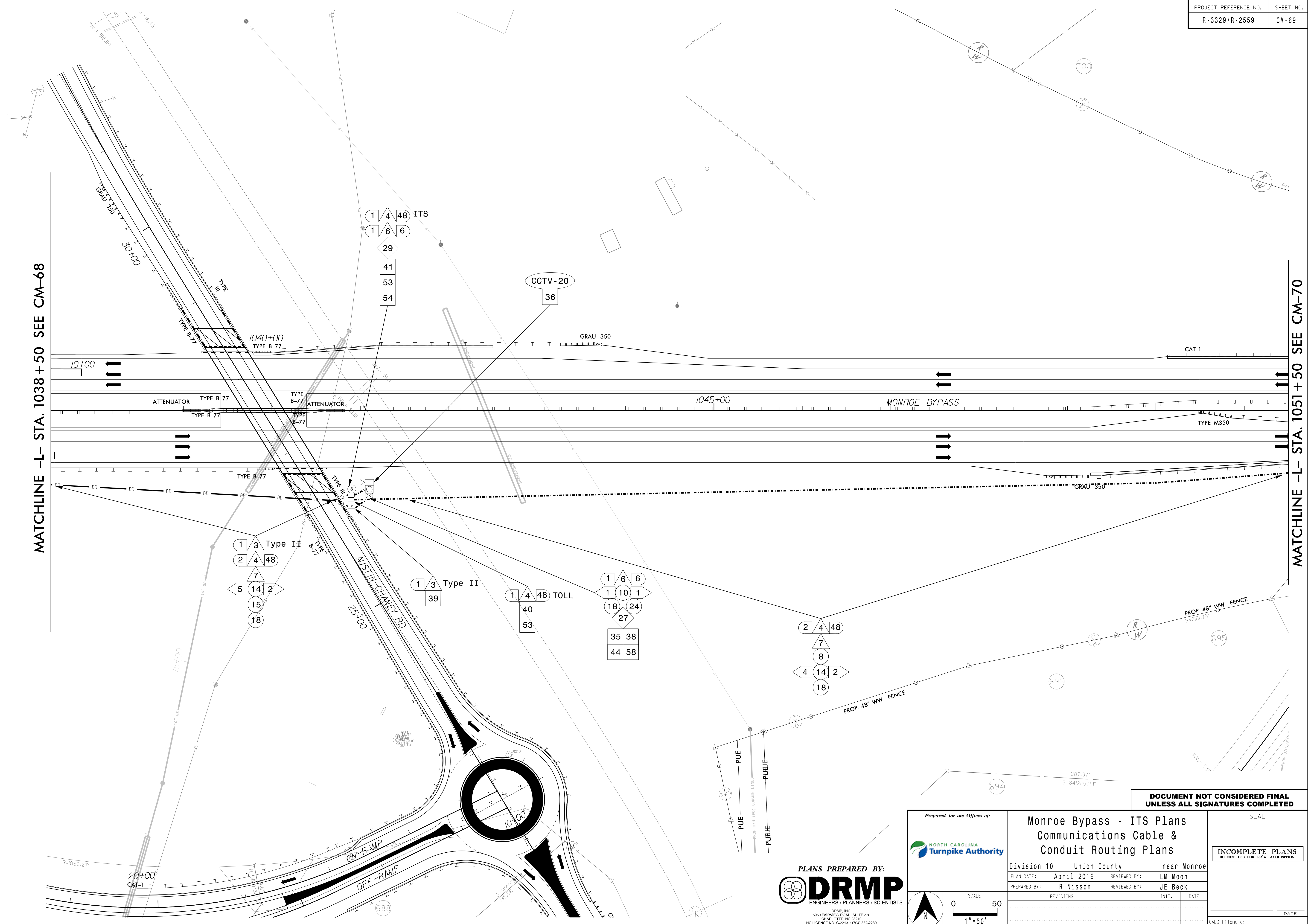
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	<p>Prepared for the Offices of:</p> <p><b>Monroe Bypass - ITS Plans</b> <b>Communications Cable &amp; Conduit Routing Plans</b></p>		<p>SEAL</p>						
	<p>Division 10 Union County near Monroe</p> <p>PLAN DATE: April 2016 REVIEWED BY: LM Moon</p> <p>PREPARED BY: R Nissen REVIEWED BY: JE Beck</p>		<p>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</p>						
<p>PLANS PREPARED BY:</p> <p><b>DRMP</b> ENGINEERS • PLANNERS • SCIENTISTS</p> <p><small>DRMP INC. 5650 FAIRVIEW ROAD, SUITE 320 CHARLOTTE, NC 28210 NC LICENSE NO. C-2213 • (704) 332-2269</small></p>	<p>SCALE</p> <p>0 50 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>CADD Filename: _____</p>
REVISIONS	INIT.	DATE							

MATCHLINE -L- STA. 1038 + 50 SEE CM-68

MATCHLINE -L- STA. 1051 + 50 SEE CM-70



26-APR-2016 0:37 LAN SHEETS\R3329\_R2559\_ITS\_PSH\_069.dgn

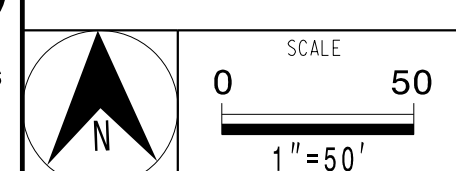
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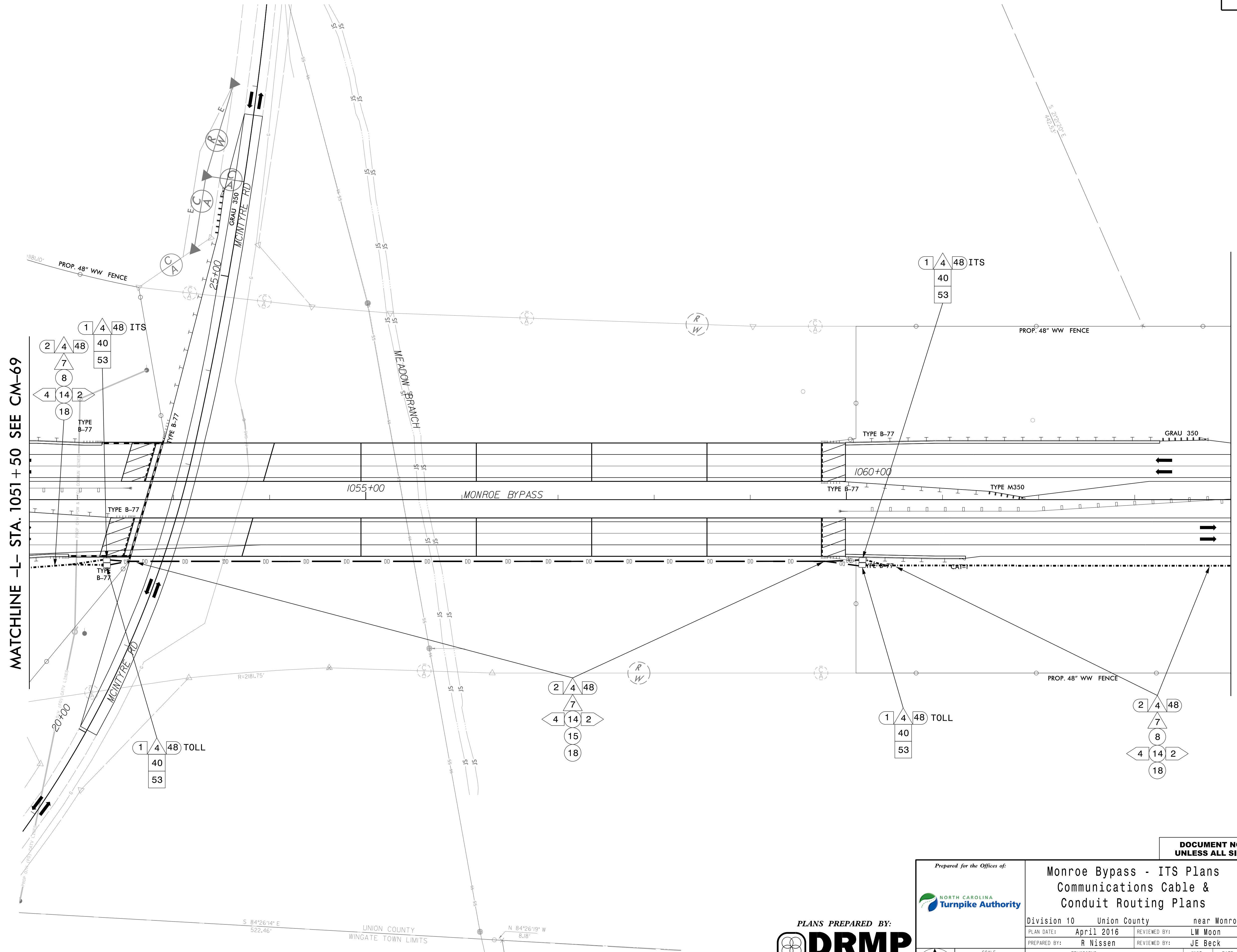
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<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>		SEAL
Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
REVISIONS	INIT.	DATE
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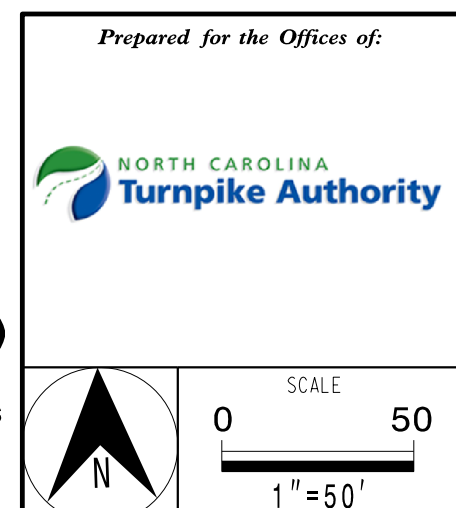
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MATCHLINE -L- STA. 1064 + 00 SEE CM-71

26-APR-2016 10:38 AM SHEETS R3329-R2559-ITS-PSH-070.dgn

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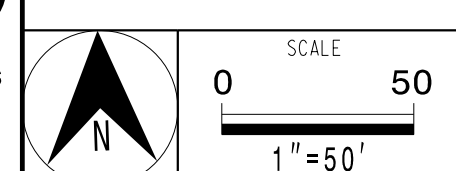
Prepared for the Offices of:		
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Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
REVISIONS	INIT.	DATE

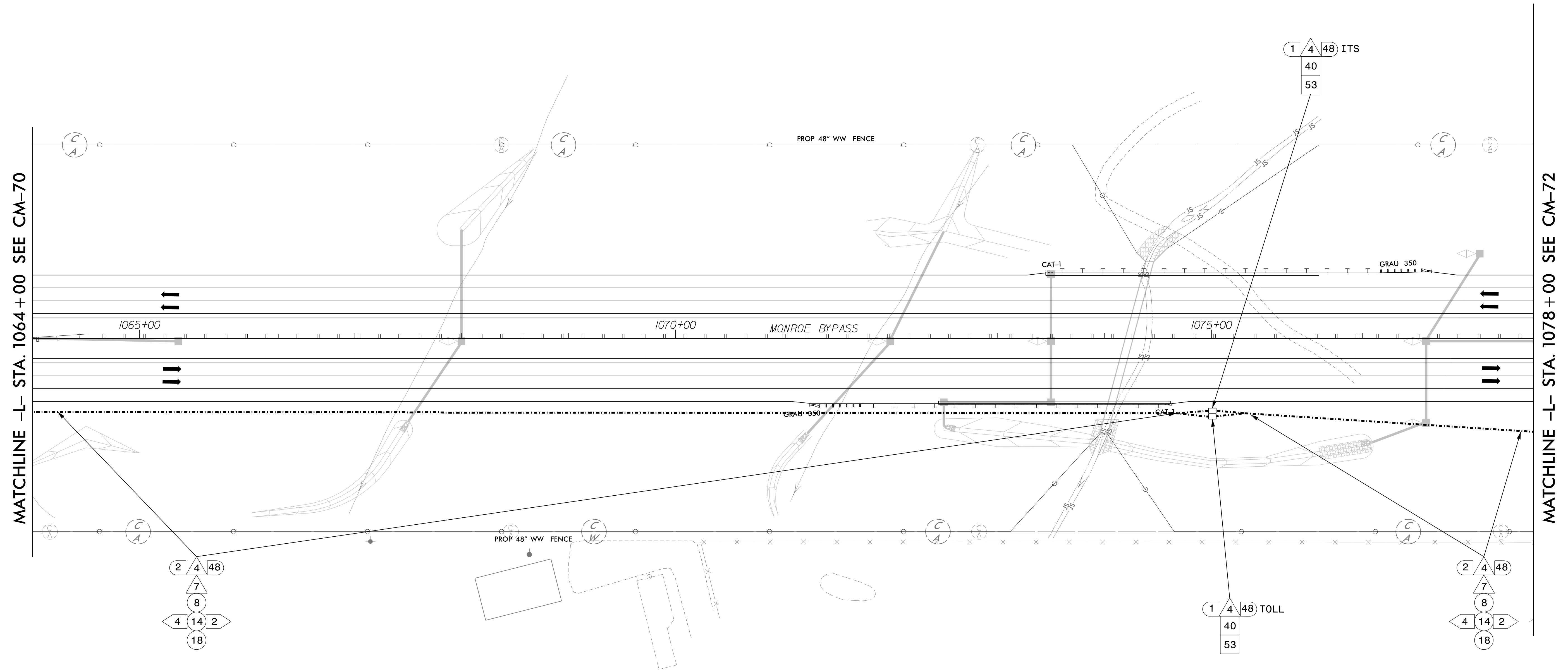
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DATE

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MATCHLINE -L- STA. 1064 + 00 SEE CM-70


MATCHLINE -L- STA. 1078 + 00 SEE CM-72

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Division 10 Union County near Monroe

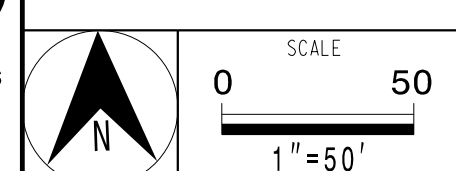
<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>	
PLAN DATE: April 2016	REVIEWED BY: LM Moon
PREPARED BY: R Nissen	REVIEWED BY: JE Beck
REVISIONS	INIT. DATE

SEAL

**INCOMPLETE PLANS  
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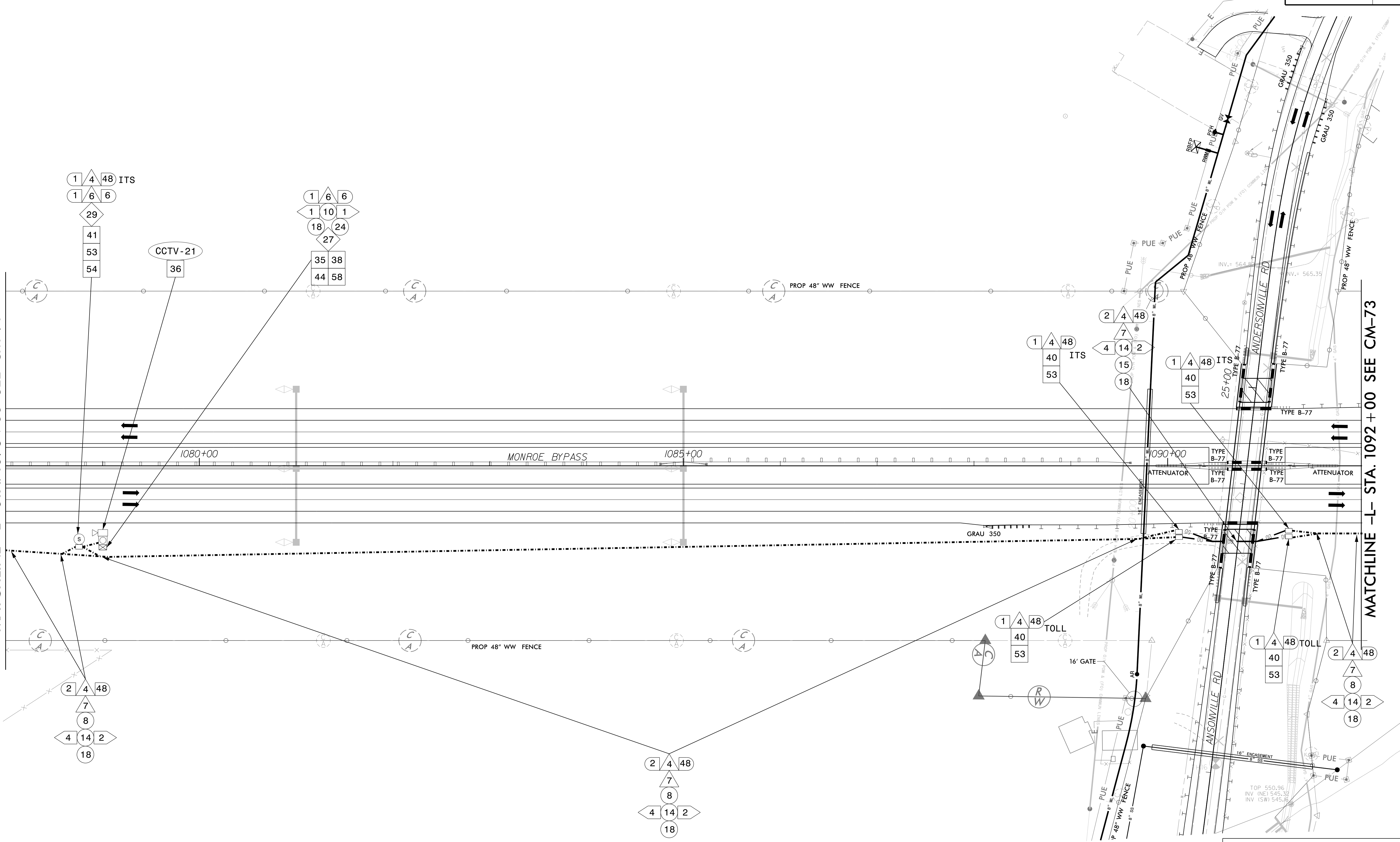
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MATCHLINE -L- STA. 1078 + 00 SEE CM-71

MATCHLINE -L- STA. 1092 + 00 SEE CM-73



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Division 10 Union County near Monroe  
PLAN DATE: April 2016 REVIEWED BY: LM Moon  
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REVISIONS	INIT.	DATE

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DATE

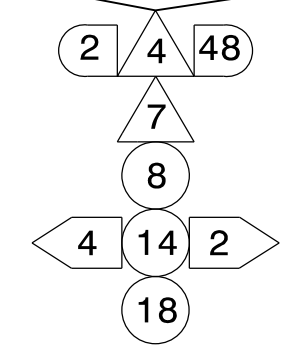
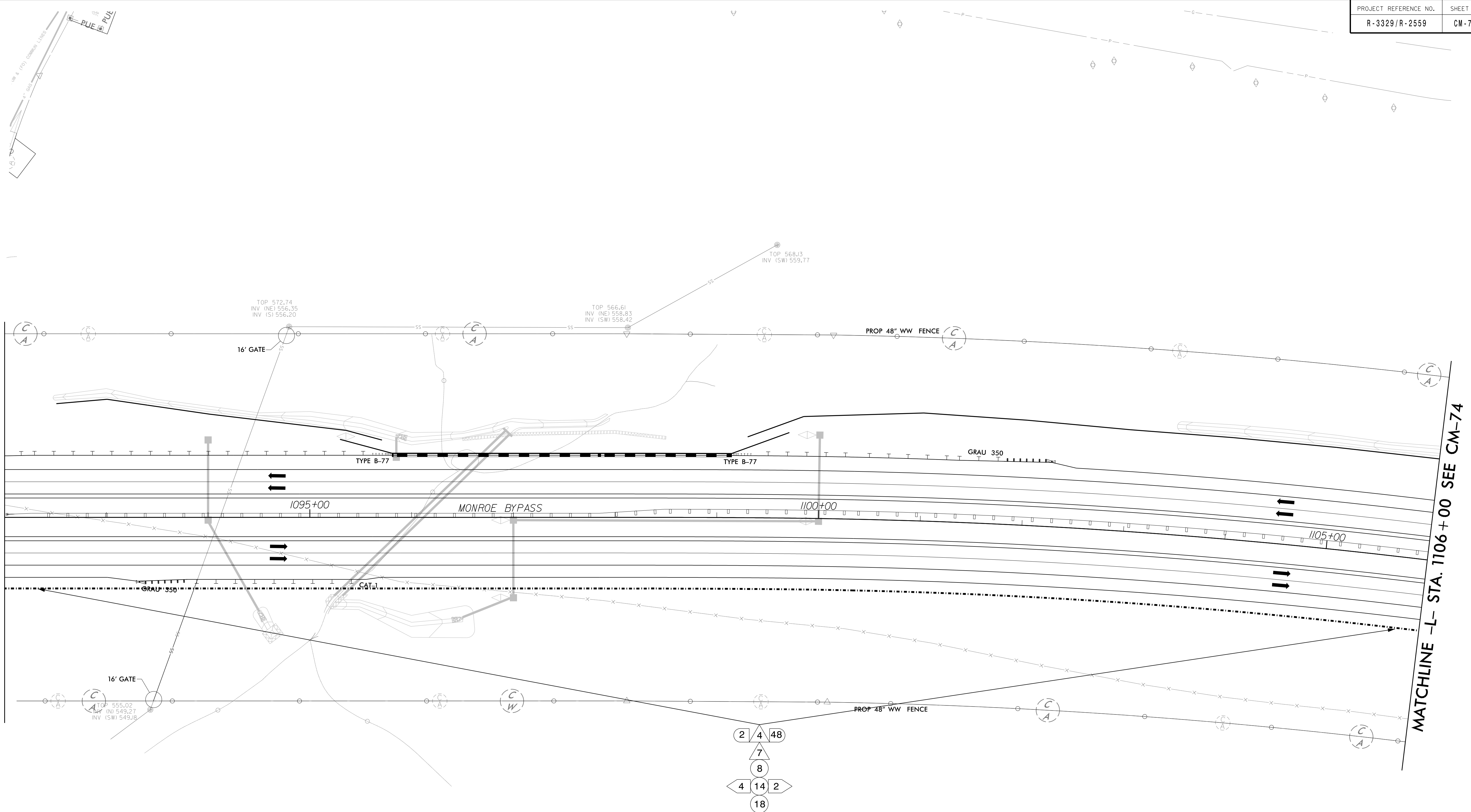
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SCALE  
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1" = 50'



MATCHLINE -L- STA. 1092 + 00 SEE CM-72

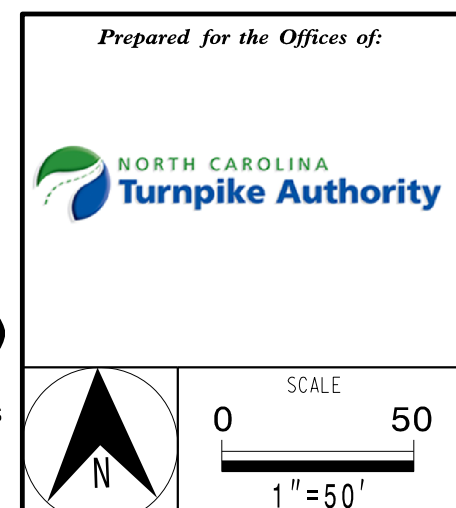
MATCHLINE -L- STA. 1106 + 00 SEE CM-74



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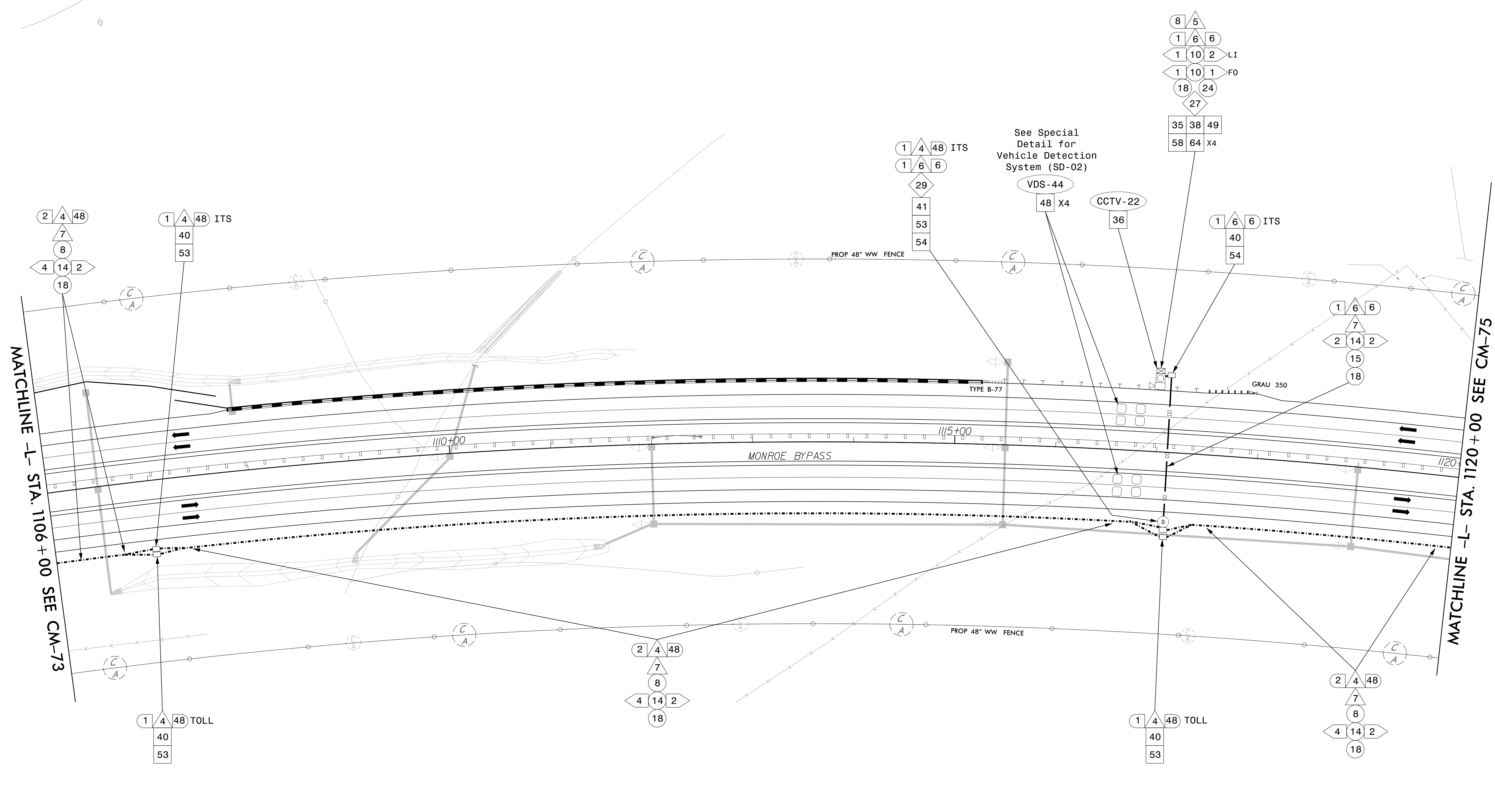
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Division 10 Union County near Monroe		SEAL	
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PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	DATE

CADD File name: \_\_\_\_\_



MATCHLINE -L- STA. 1106+00 SEE CM-73

MATCHLINE -L- STA. 1120+00 SEE CM-75

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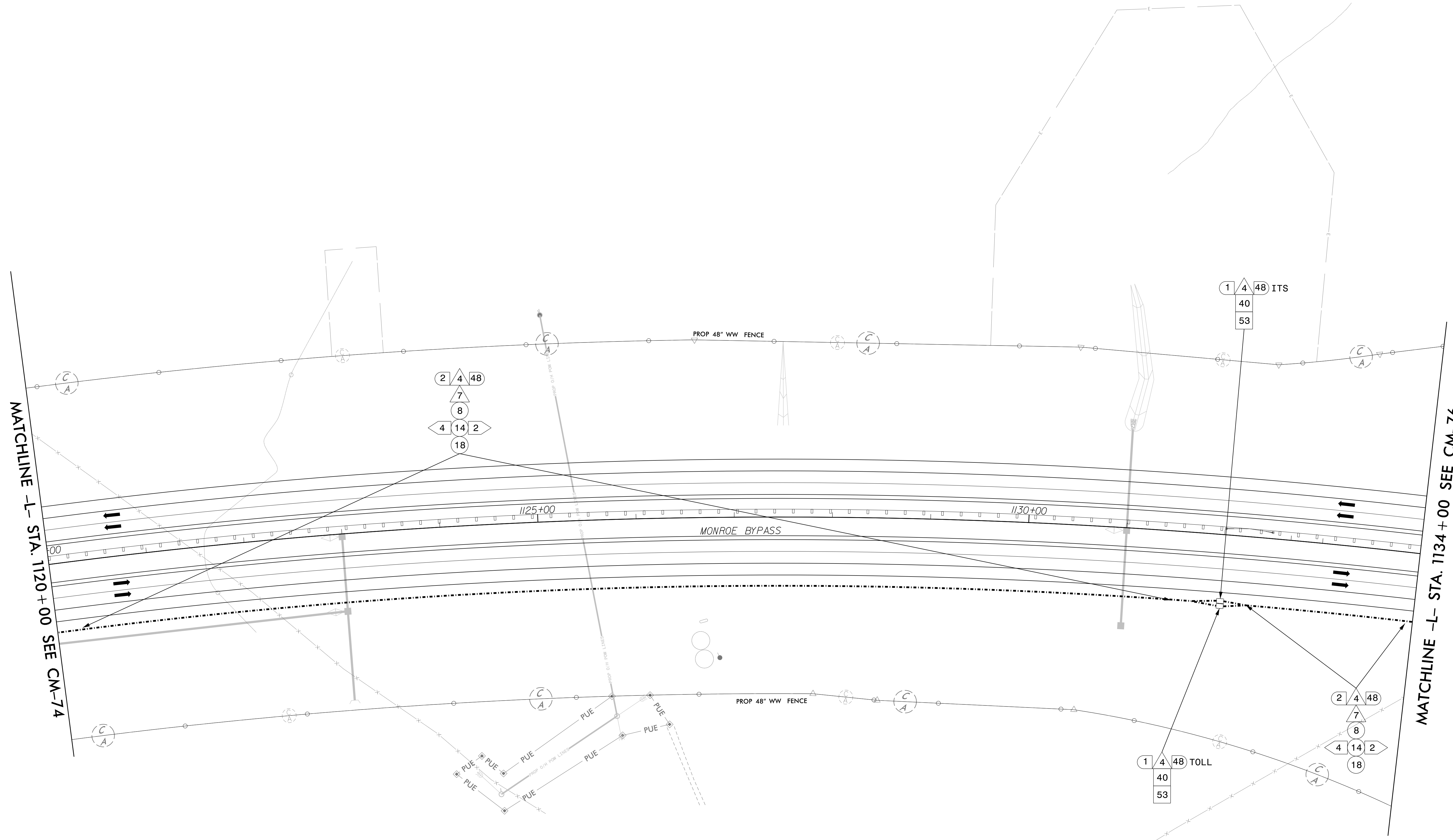
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	Division 10 Union County near Monroe		
PLAN DATE: April 2016 PREPARED BY: R Nissen	REVIEWED BY: LM Moon REVIEWED BY: JE Beck	INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
REVISIONS		INIT. DATE	DATE
SCALE 0 50 1"=50'		CADD File name:	

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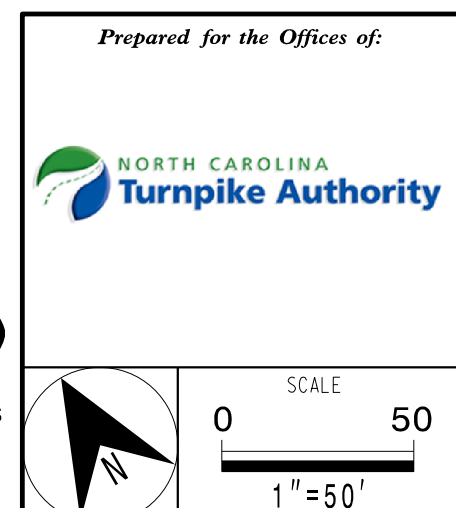
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MATCHLINE -L- STA. 1134+00 SEE CM-76

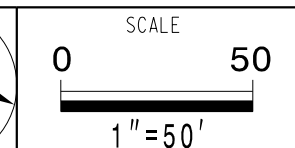
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 nissen  
 100 CHARLESSEN-97

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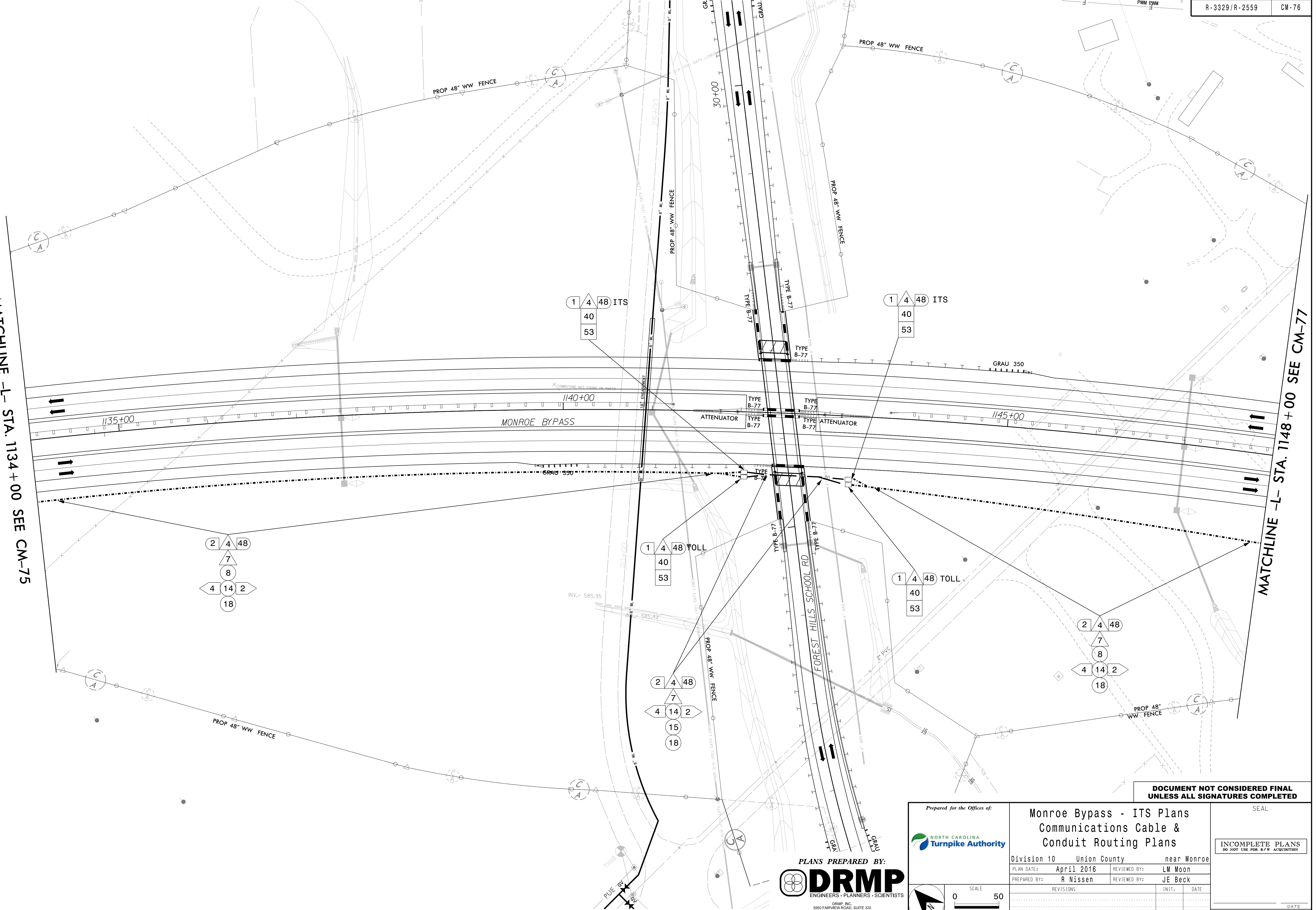


Prepared for the Offices of:		<b>Monroe Bypass - ITS Plans    Communications Cable &amp;    Conduit Routing Plans</b>	
Division 10 Union County near Monroe		SEAL	
PLAN DATE: April 2016	REVIEWED BY: LM Moon	INCOMPLETE PLANS <small>DO NOT USE FOR R/W ACQUISITION</small>	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	DATE
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MATCHLINE -L- STA. 1134+00 SEE CM-75

MATCHLINE -L- STA. 1148+00 SEE CM-77



26-APR-2016 09:40 AN SHEETS R3329\_R2559\_ITS\_PSH\_076.dgn

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	<b>Monroe Bypass - ITS Plans</b> Communications Cable & Conduit Routing Plans		SEAL
	Division 10 Union County near Monroe		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION
Prepared for the Offices of:	PLAN DATE: April 2016	REVIEWED BY: LM Moon	
Prepared by: R Nissen	REVISIONS	REVIEWED BY: JE Beck	DATE
PLANS PREPARED BY: DRMP INC. ENGINEERS • PLANNERS • SCIENTISTS 5650 FAIRVIEW ROAD, SUITE 320 CHARLOTTE, NC 28210 NC LICENSE NO. C-2213 • TPA 332-2269		SCALE 0 50 1"=50'	DATE

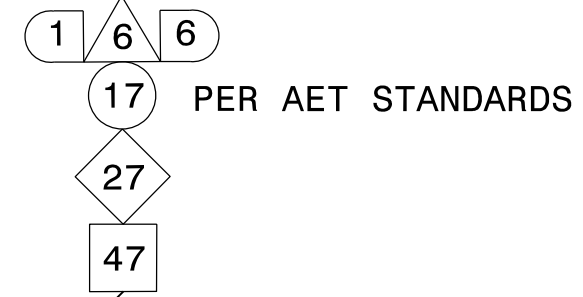
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**TOLL ZONE  
AET 8**

**NOTES**

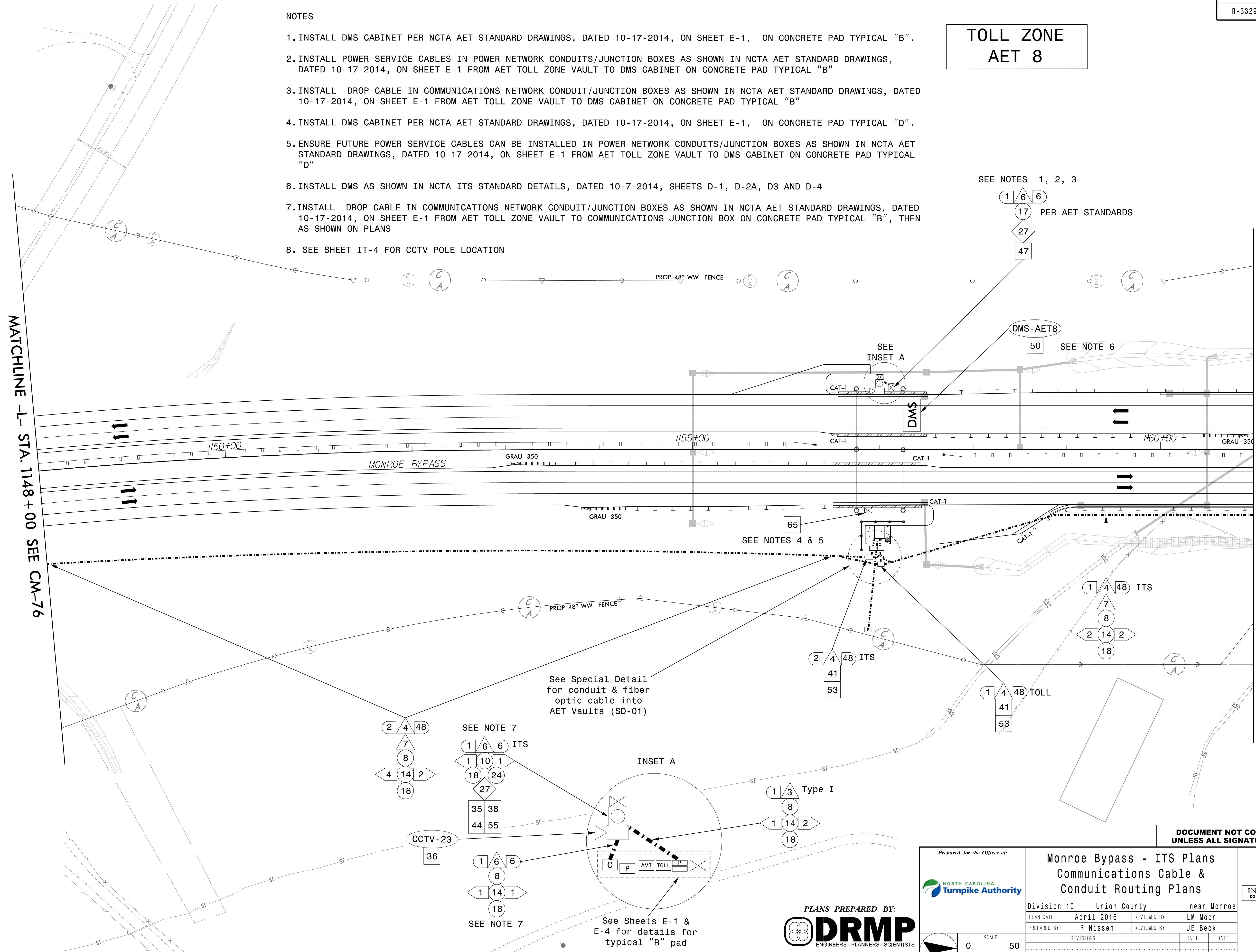
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2. INSTALL POWER SERVICE CABLES IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
3. INSTALL DROP CABLE IN COMMUNICATIONS NETWORK CONDUIT/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "B"
4. INSTALL DMS CABINET PER NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1, ON CONCRETE PAD TYPICAL "D".
5. ENSURE FUTURE POWER SERVICE CABLES CAN BE INSTALLED IN POWER NETWORK CONDUITS/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO DMS CABINET ON CONCRETE PAD TYPICAL "D"
6. INSTALL DMS AS SHOWN IN NCTA ITS STANDARD DETAILS, DATED 10-7-2014, SHEETS D-1, D-2A, D3 AND D-4
7. INSTALL DROP CABLE IN COMMUNICATIONS NETWORK CONDUIT/JUNCTION BOXES AS SHOWN IN NCTA AET STANDARD DRAWINGS, DATED 10-17-2014, ON SHEET E-1 FROM AET TOLL ZONE VAULT TO COMMUNICATIONS JUNCTION BOX ON CONCRETE PAD TYPICAL "B", THEN AS SHOWN ON PLANS
8. SEE SHEET IT-4 FOR CCTV POLE LOCATION

SEE NOTES 1, 2, 3



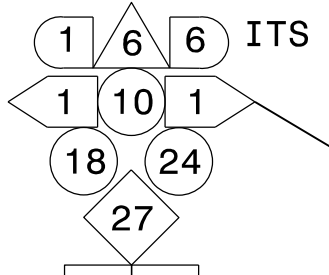
MATCHLINE -L- STA. 1148+00 SEE CM-76

MATCHLINE -L- STA. 1161+00 SEE CM-78

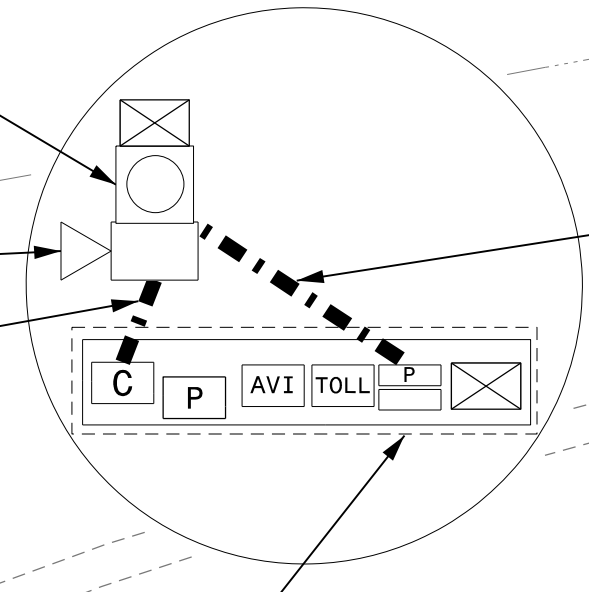


See Special Detail for conduit & fiber optic cable into AET Vaults (SD-01)

SEE NOTE 7

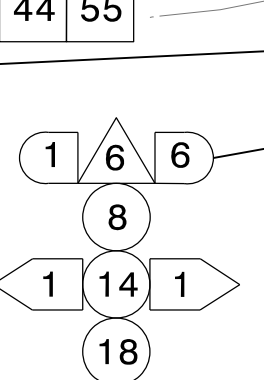


INSET A



See Sheets E-1 & E-4 for details for typical "B" pad

SEE NOTE 7



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**Monroe Bypass - ITS Plans  
Communications Cable &  
Conduit Routing Plans**

Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
REVISIONS	INIT.	DATE

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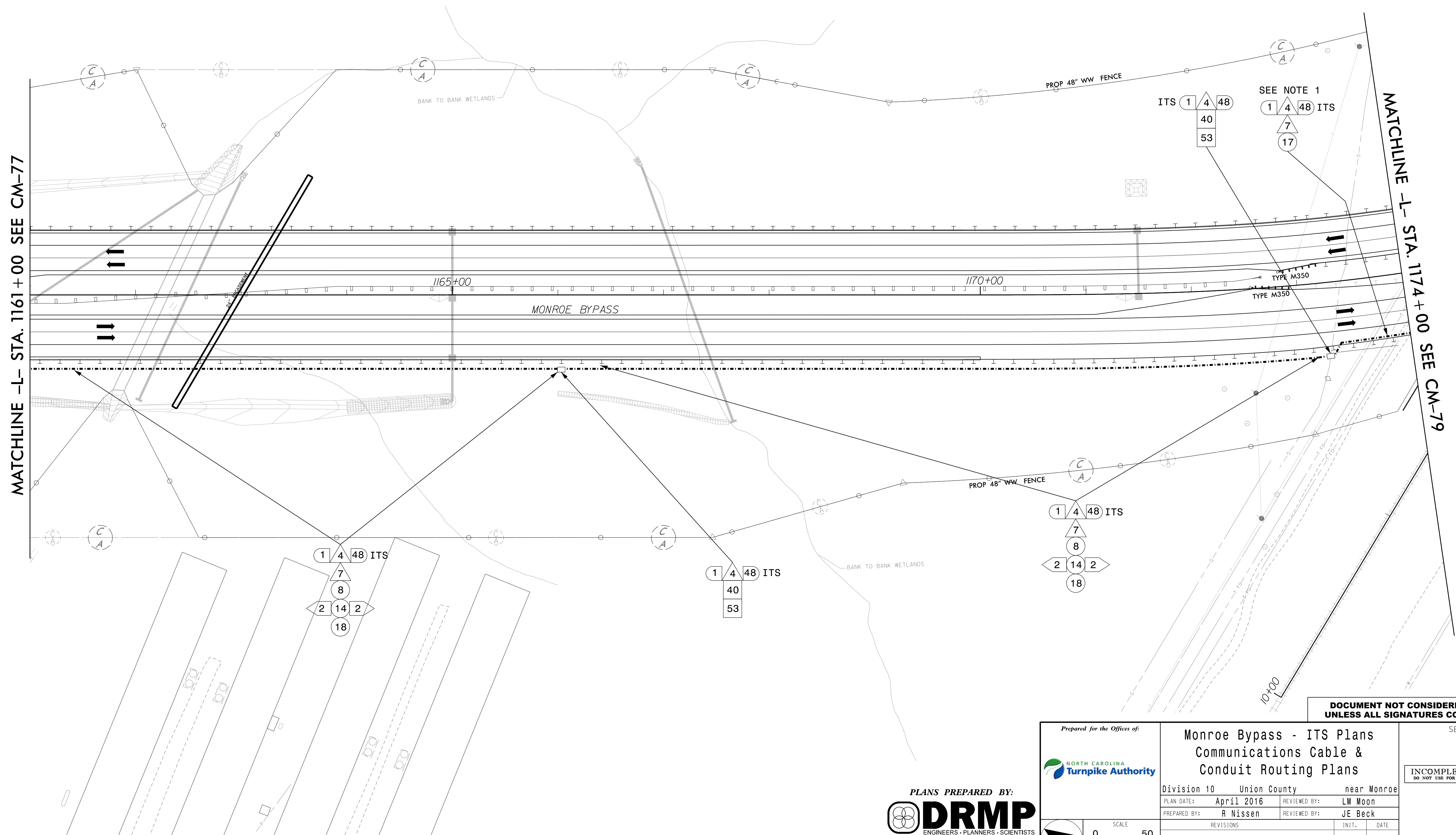
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CADD File name:

26-APR-2016 10:52 AM SHEETS R3329-R2559-ITS-PSH-077.dgn

NOTES

1. FIND AND INTERCEPT BRIDGE MOUNTED CONDUIT SYSTEM AND EXTEND CONDUIT OUTSIDE OF PAVED SHOULDER. CONTRACTOR SHALL COORDINATE CONDUIT PLACEMENT TO AVOID CONDUIT DAMAGE UNDER PROPOSED GUARDRAIL.




MATCHLINE -L- STA. 1161 + 00 SEE CM-77

MATCHLINE -L- STA. 1174 + 00 SEE CM-79

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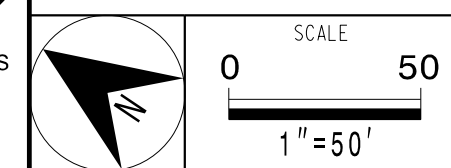
REVISIONS	INIT.	DATE

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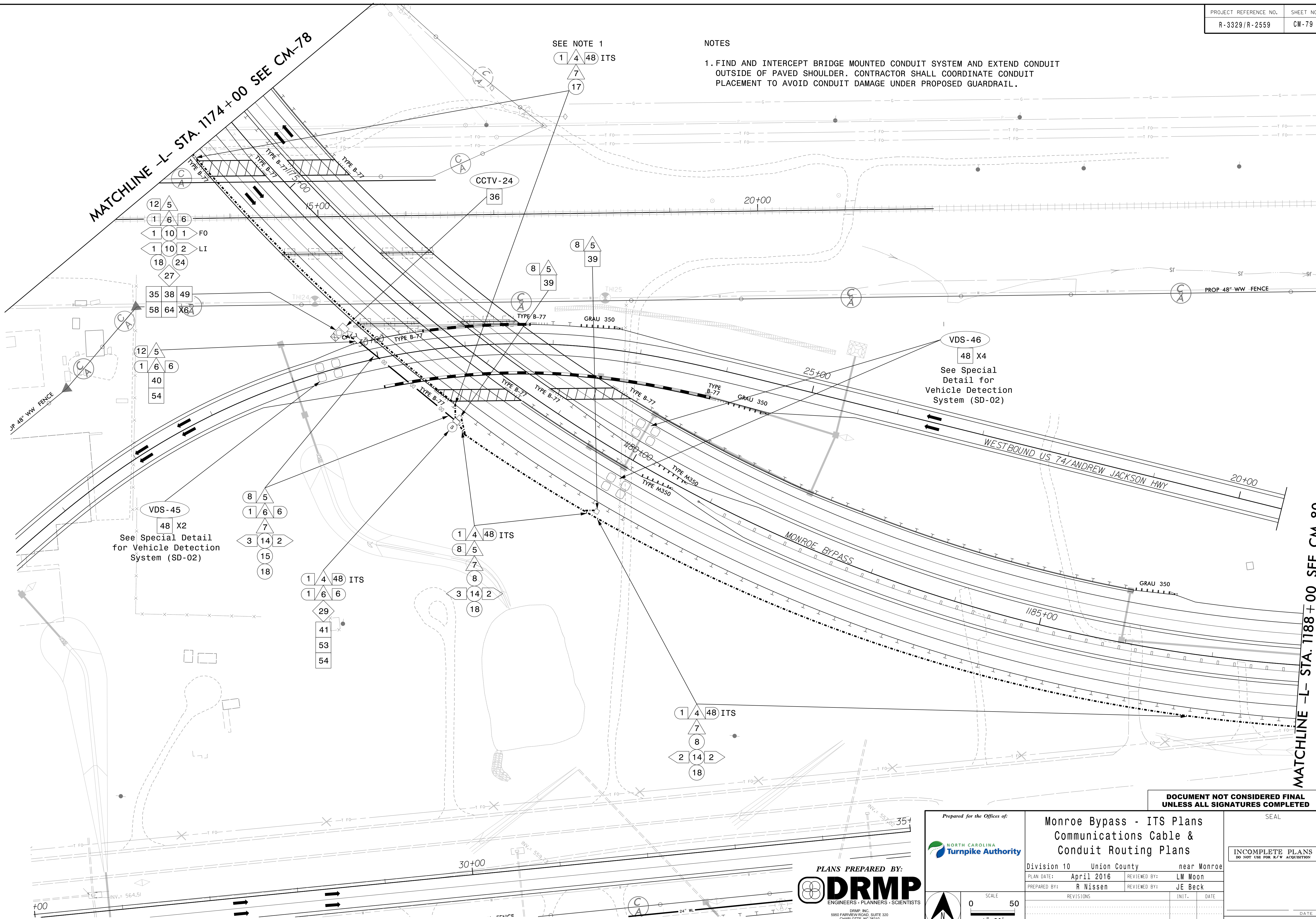
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DO NOT USE FOR R/W ACQUISITION

DATE

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MATCHLINE -L- STA. 1174+00 SEE CM-78

MATCHLINE -L- STA. 1188+00 SEE CM-80

VDS-45  
 48 X2  
 See Special Detail for Vehicle Detection System (SD-02)

VDS-46  
 48 X4  
 See Special Detail for Vehicle Detection System (SD-02)

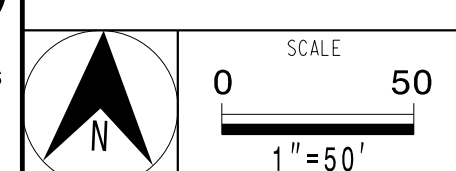
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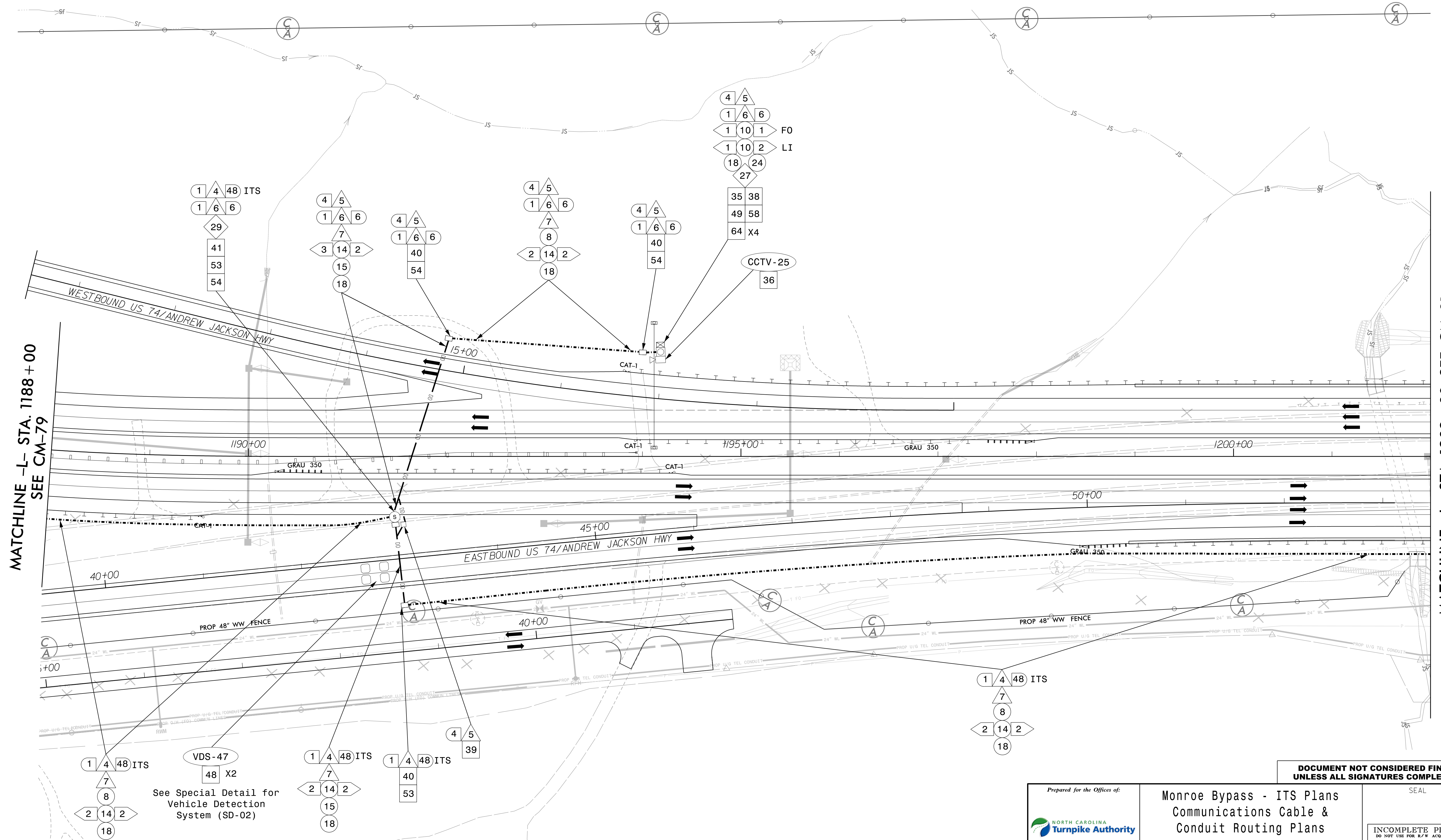
	Prepared for the Offices of: <b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>		SEAL
	Division 10 Union County near Monroe	PLAN DATE: April 2016	REVIEWED BY: LM Moon
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DRMP ENGINEERS • PLANNERS • SCIENTISTS			DATE

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 nissen, R. Design and Drafting  
 m. nissen

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MATCHLINE -L- STA. 1188 + 00  
SEE CM-79

MATCHLINE -L- STA. 1202 + 00 SEE CM-81

See Special Detail for Vehicle Detection System (SD-02)

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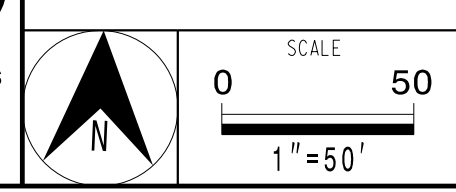
Monroe Bypass - ITS Plans Communications Cable & Conduit Routing Plans		
Division 10	Union County	near Monroe
PLAN DATE: April 2016	REVIEWED BY: LM Moon	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck	
REVISIONS	INIT.	DATE

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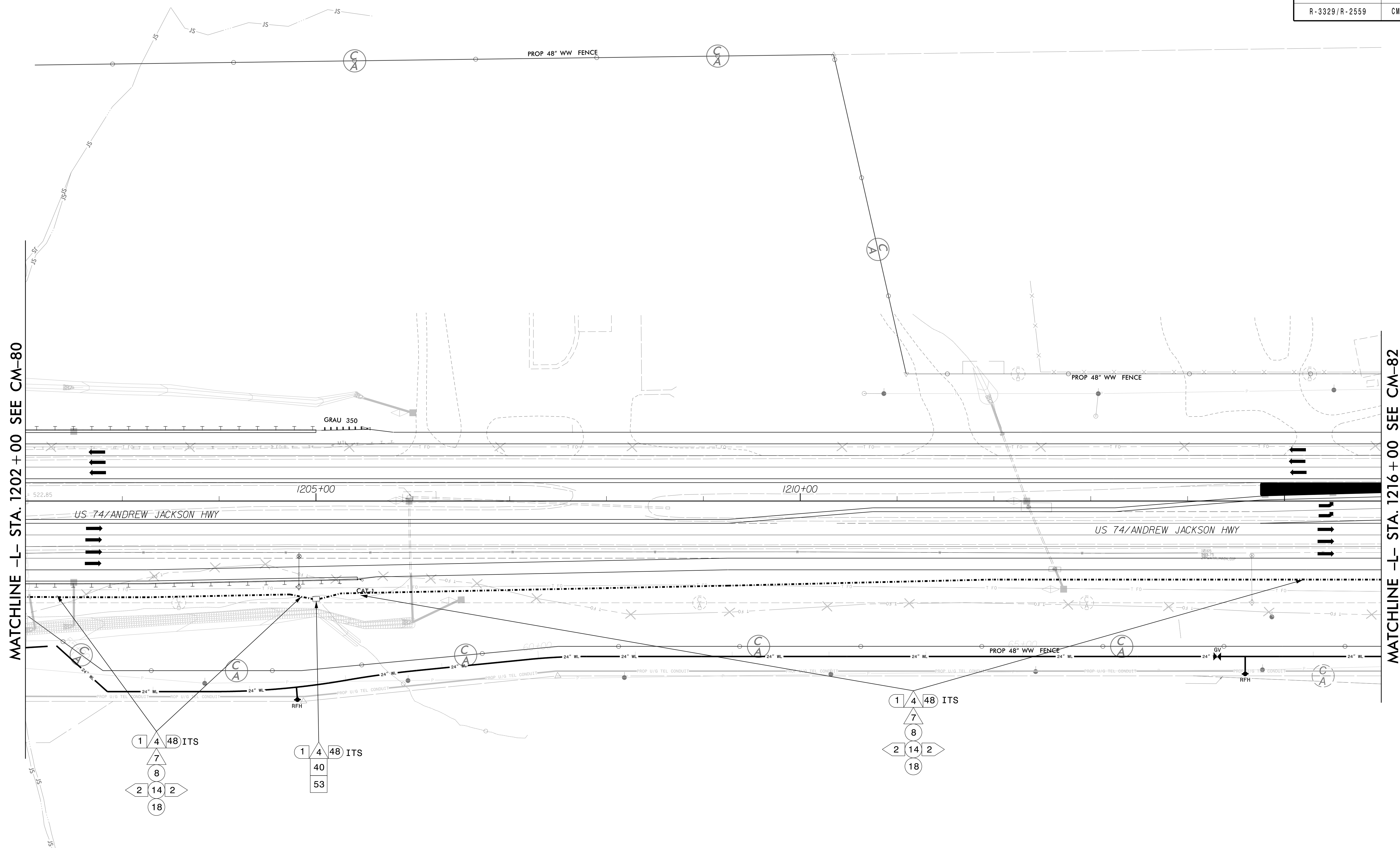
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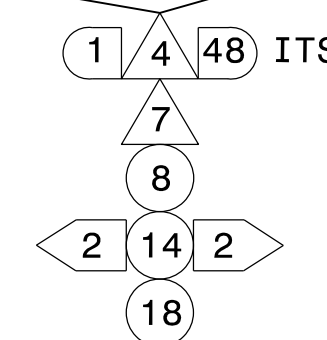
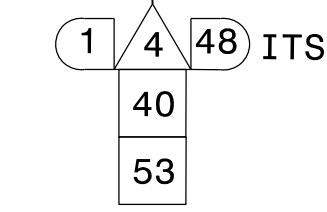
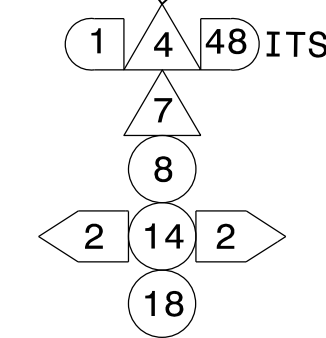






MATCHLINE -L- STA. 1202 + 00 SEE CM-80

MATCHLINE -L- STA. 1216 + 00 SEE CM-82



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 PLAN DATE: April 2016 REVIEWED BY: LM Moon  
 PREPARED BY: R Nissen REVIEWED BY: JE Beck

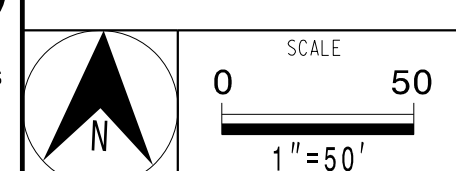
REVISIONS	INIT.	DATE

SEAL

INCOMPLETE PLANS  
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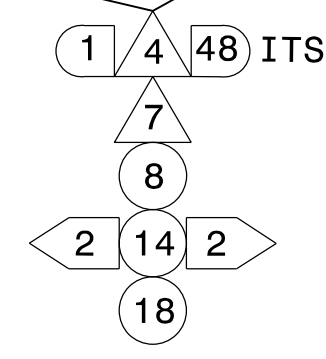
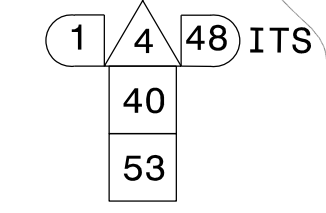
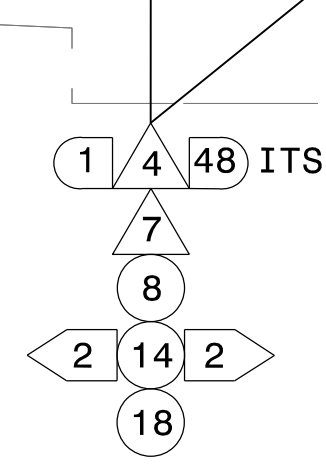
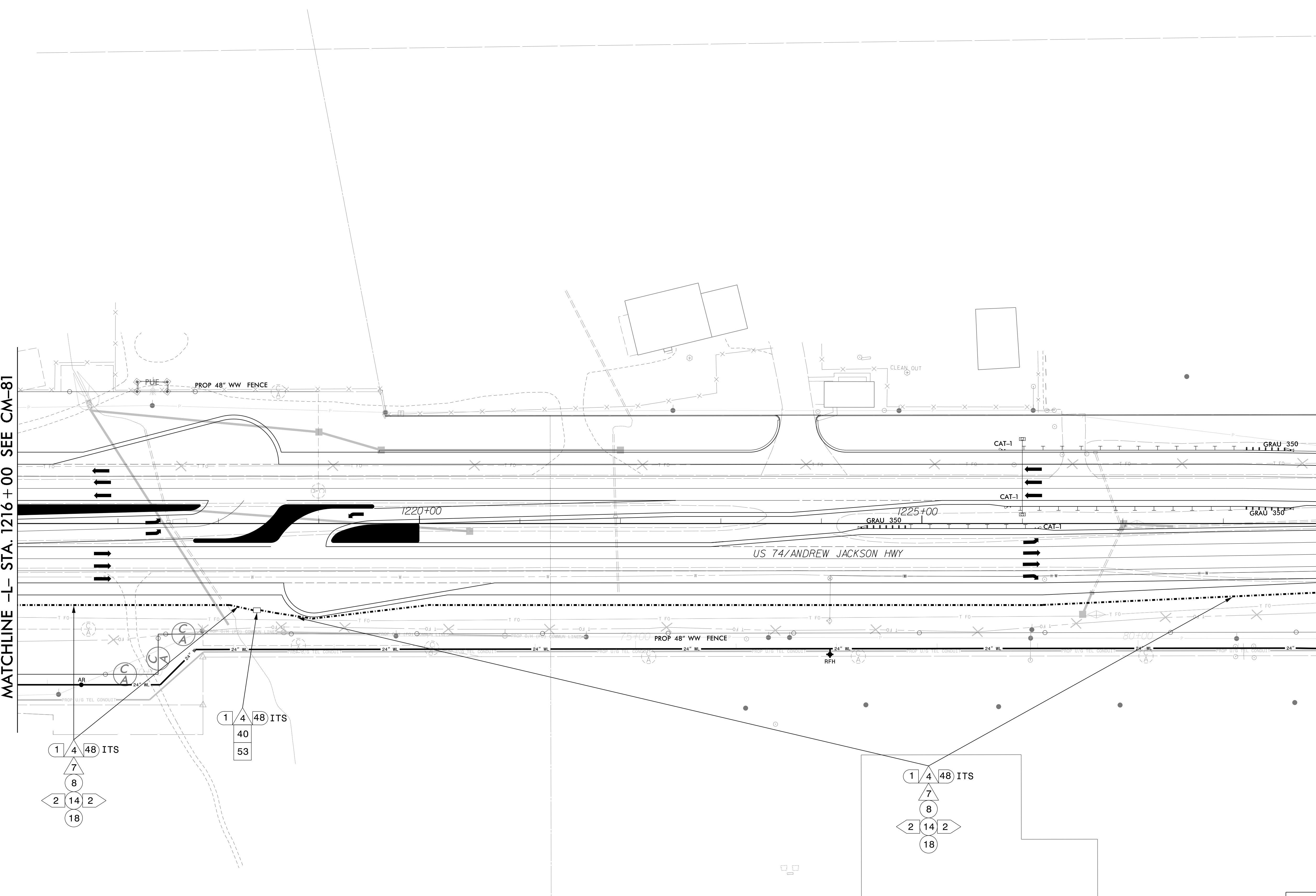
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MATCHLINE -L- STA. 1216 + 00 SEE CM-81

MATCHLINE -L- STA. 1229 + 00 SEE CM-83



US 601/ANDREW JACKSON HWY

US 74/ANDREW JACKSON HWY

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	<b>Monroe Bypass - ITS Plans Communications Cable &amp; Conduit Routing Plans</b>		SEAL  INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION
	Division 10 Union County near Monroe		
PLAN DATE: April 2016	REVIEWED BY: LM Moon		
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	
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CADD File name: _____			

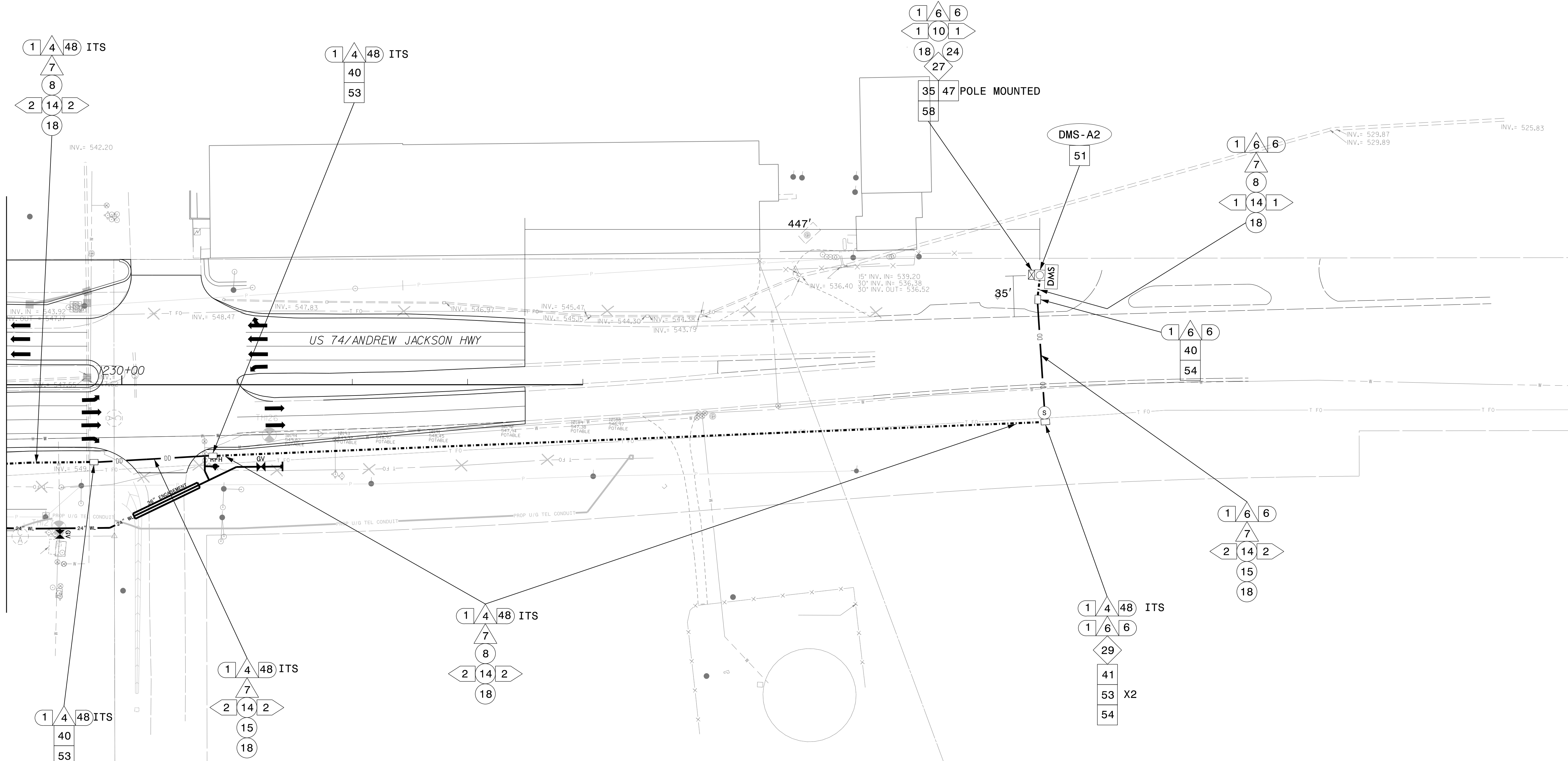
PLANS PREPARED BY:

**DRMP**  
ENGINEERS • PLANNERS • SCIENTISTS

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5950 FAIRVIEW ROAD, SUITE 320  
CHARLOTTE, NC 28210  
NC LICENSE NO. C-2513 • (704) 332-2289

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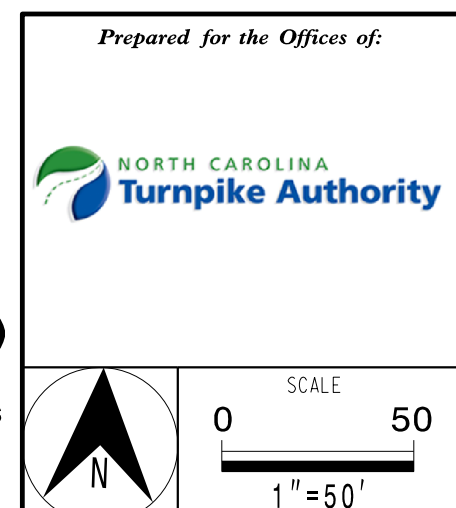
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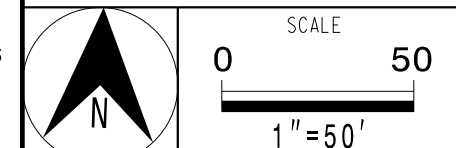
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Prepared for the Offices of:		Monroe Bypass - ITS Plans Communications Cable & Conduit Routing Plans	
Division 10 Union County near Monroe		SEAL	
PLAN DATE: April 2016	REVIEWED BY: LM Moon	INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PREPARED BY: R Nissen	REVIEWED BY: JE Beck		
REVISIONS	INIT.	DATE	DATE



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