

NOTES FOR EXISTING COMMUNICATIONS CABLE:

- REMOVE ALL EXISTING COMMUNICATIONS CABLE FROM INSIDE THE CONTROLLER CABINET AND THE RISER ASSEMBLY. LEAVE RISER ASSEMBLY IN PLACE.

NOTES FOR WIRELESS COMMUNICATIONS:

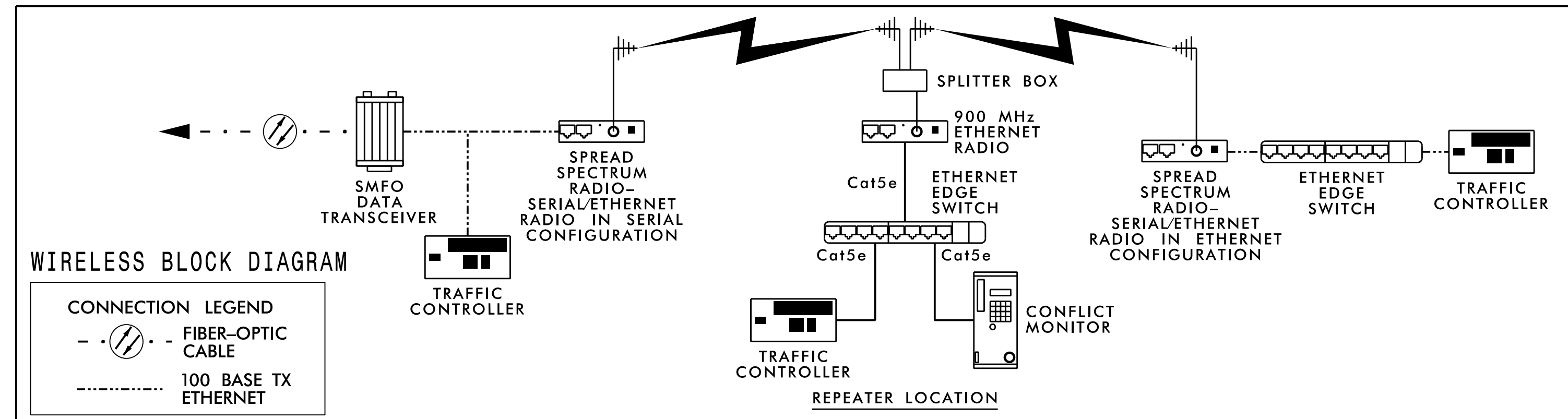
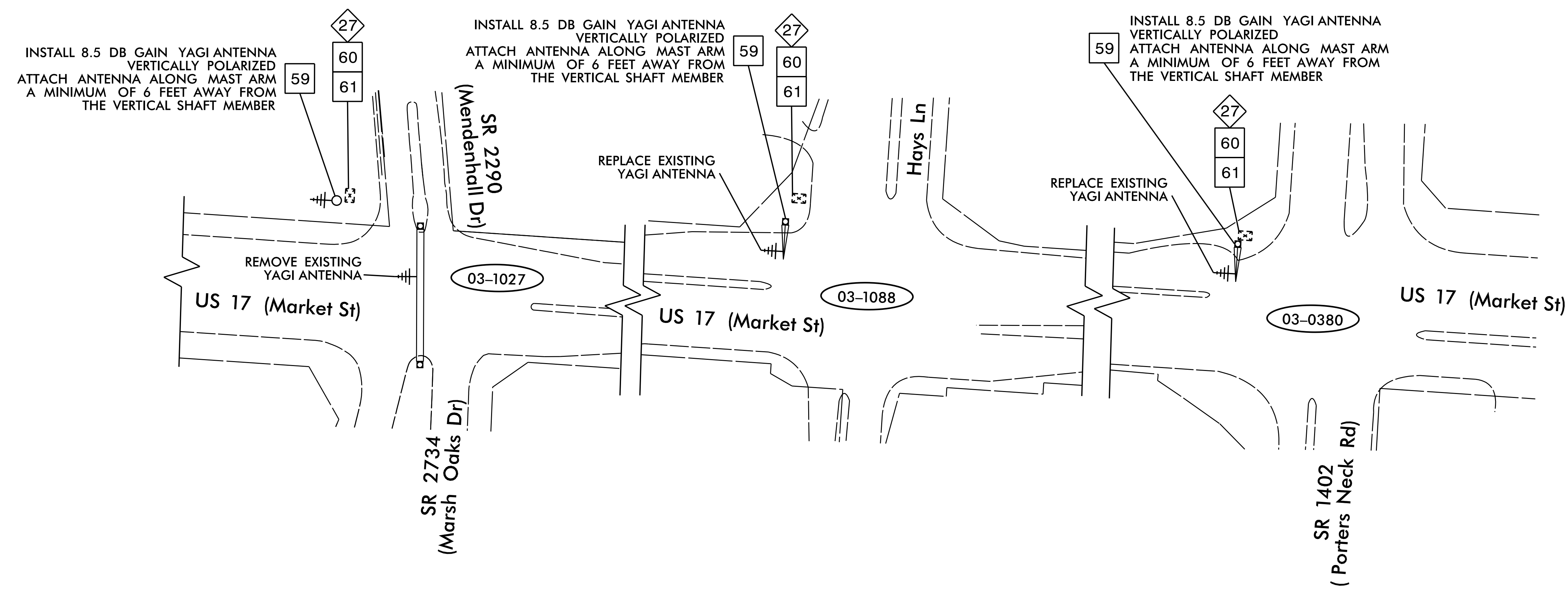
- INSTALL COAXIAL CABLE:
 - ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - ON METAL POLES WITH MAST ARMS, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE MAST ARM; FIELD DRILL A 1/2" HOLE UP THROUGH THE BOTTOM OF MAST ARM FOR INSTALLATION OF THE COAXIAL CABLE TO THE ANTENNA.
 - ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - BETWEEN THE POINT OF EXITING THE RISER, METAL POLE, OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
- IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER.
- INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
- REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS" IN THE 2018 NCDOT ROADWAY STANDARD DRAWINGS.
- RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE CITY OF WILMINGTON SIGNAL SHOP. THE SIGNAL SYSTEM MANAGEMENT ENGINEER CAN BE REACHED AT (910) 341-4676.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4670 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.

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 (919) 546-8997

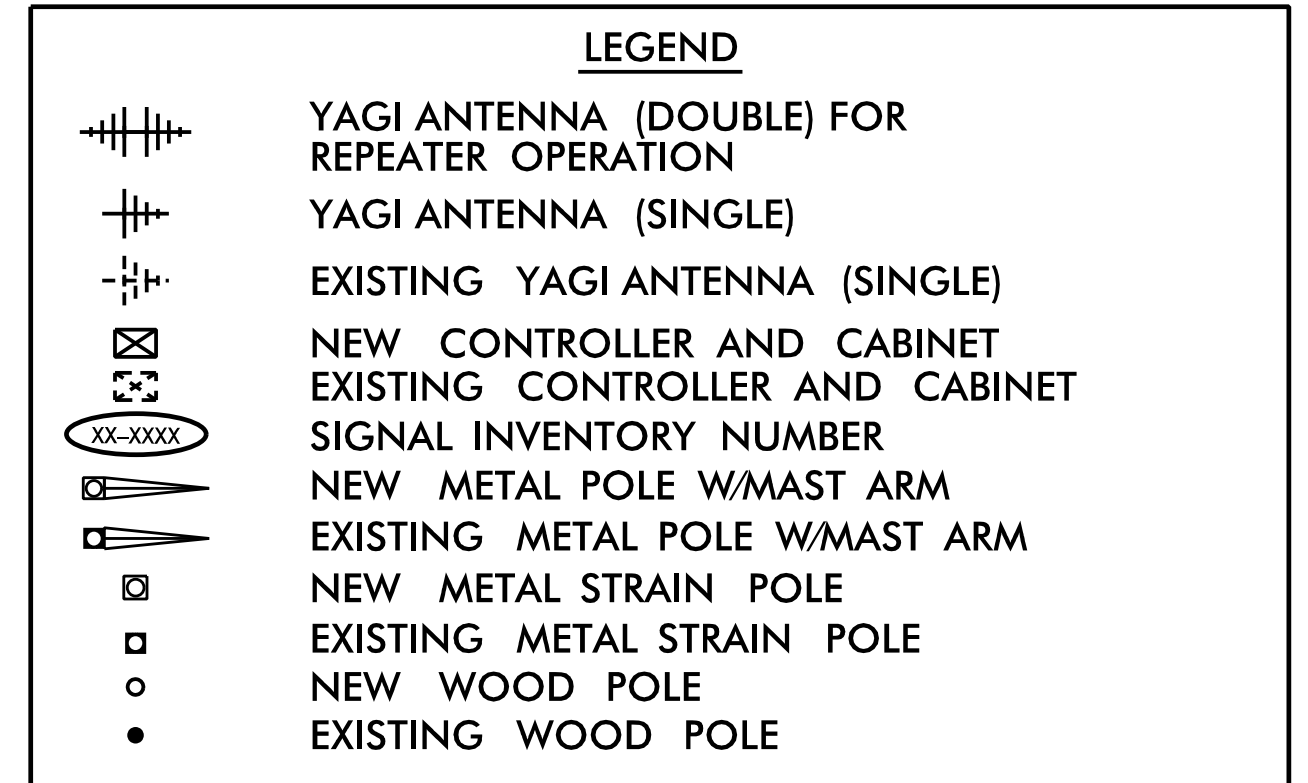
TMP - TEMP

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UNLESS ALL SIGNATURES COMPLETED**

| | | |
|---|---|--|
| | US 17 (MARKET ST) CABLE ROUTING PLAN | |
| | Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 PREPARED BY: N.K. Vlanich | REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons |
| 750 N. Greenfield Pkwy., Garner, NC 27529 | REVISIONS INIT. DATE | SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS SEAL 031464 DocuSigned by: Natasha R. Simmons 8/1/2018 SIGNATURE DATE CADD File name: U4902D_SCP_07.dgn |



- NOTES FOR EXISTING COMMUNICATIONS CABLE:**
- REMOVE ALL EXISTING COMMUNICATIONS CABLE FROM INSIDE THE CONTROLLER CABINET AND THE RISER ASSEMBLY. LEAVE RISER ASSEMBLY IN PLACE.
- NOTES FOR WIRELESS COMMUNICATIONS:**
- INSTALL COAXIAL CABLE:
 - ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - ON METAL POLES WITH MAST ARMS, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE MAST ARM; FIELD DRILL A 1/2" HOLE UP THROUGH THE BOTTOM OF MAST ARM FOR INSTALLATION OF THE COAXIAL CABLE TO THE ANTENNA.
 - ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - BETWEEN THE POINT OF EXITING THE RISER, METAL POLE, OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
 - IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER.
 - INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN. (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
 - MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
 - REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS" IN THE 2018 NCDOT ROADWAY STANDARD DRAWINGS.
 - RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE CITY OF WILMINGTON SIGNAL SHOP. THE SIGNAL SYSTEM MANAGEMENT ENGINEER CAN BE REACHED AT (910) 341-4676.
 - TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4670 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.



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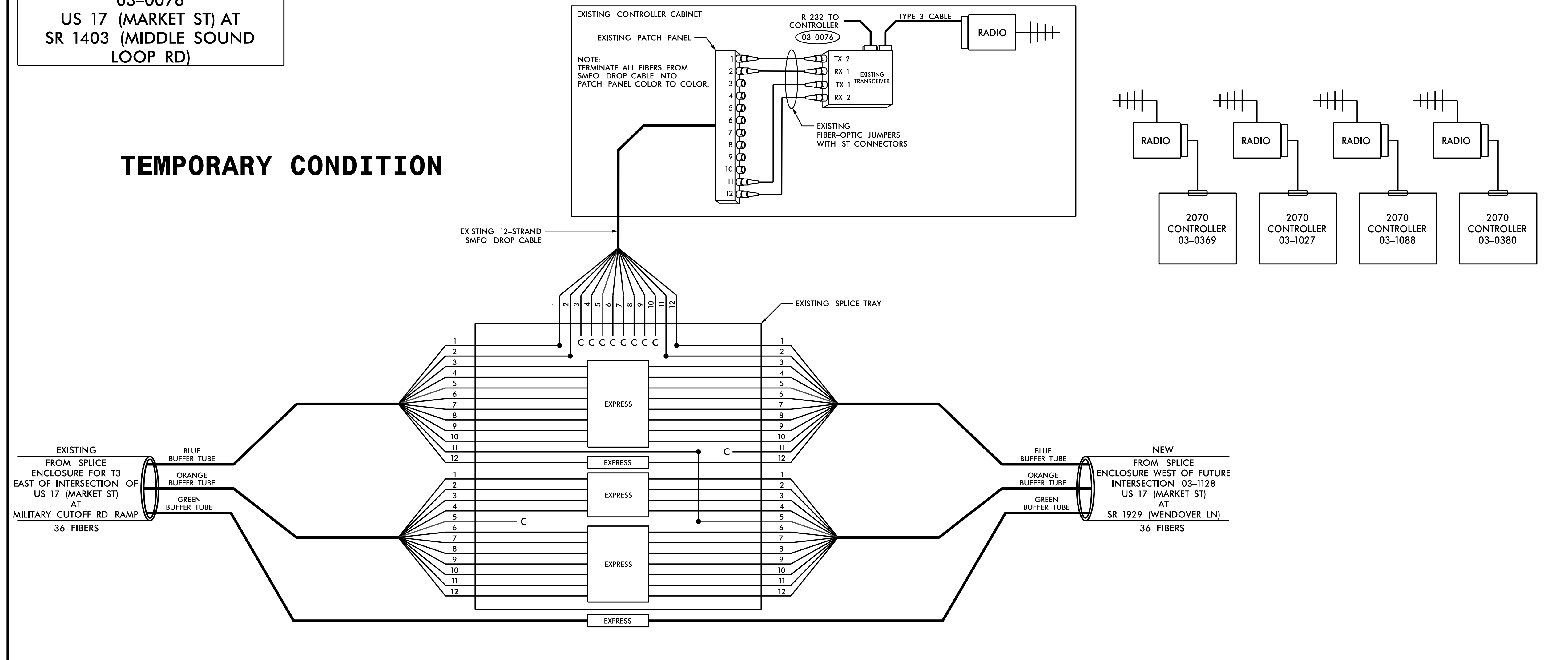
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| | | | |
|-----------------------------------|--|--------------------------------------|----------------|
| | US 17 (MARKET ST) WIRELESS COMMUNICATIONS PLANS | | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 | |
| PREPARED BY: N.K. Vlanich | REVIEWED BY: N.R. Simmons | REVISIONS | INIT. DATE |
| SCALE: 0 50 1" = 50' | | Signature: <i>Natasha R. Simmons</i> | DATE: 8/1/2018 |
| CADD File name: U4902D SCP 08.dgn | | | |

03-0076
US 17 (MARKET ST) AT
SR 1403 (MIDDLE SOUND
LOOP RD)

TEMPORARY CONDITION



NOTES:

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE.
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 TO THE ENGINEER.

| 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 | | |

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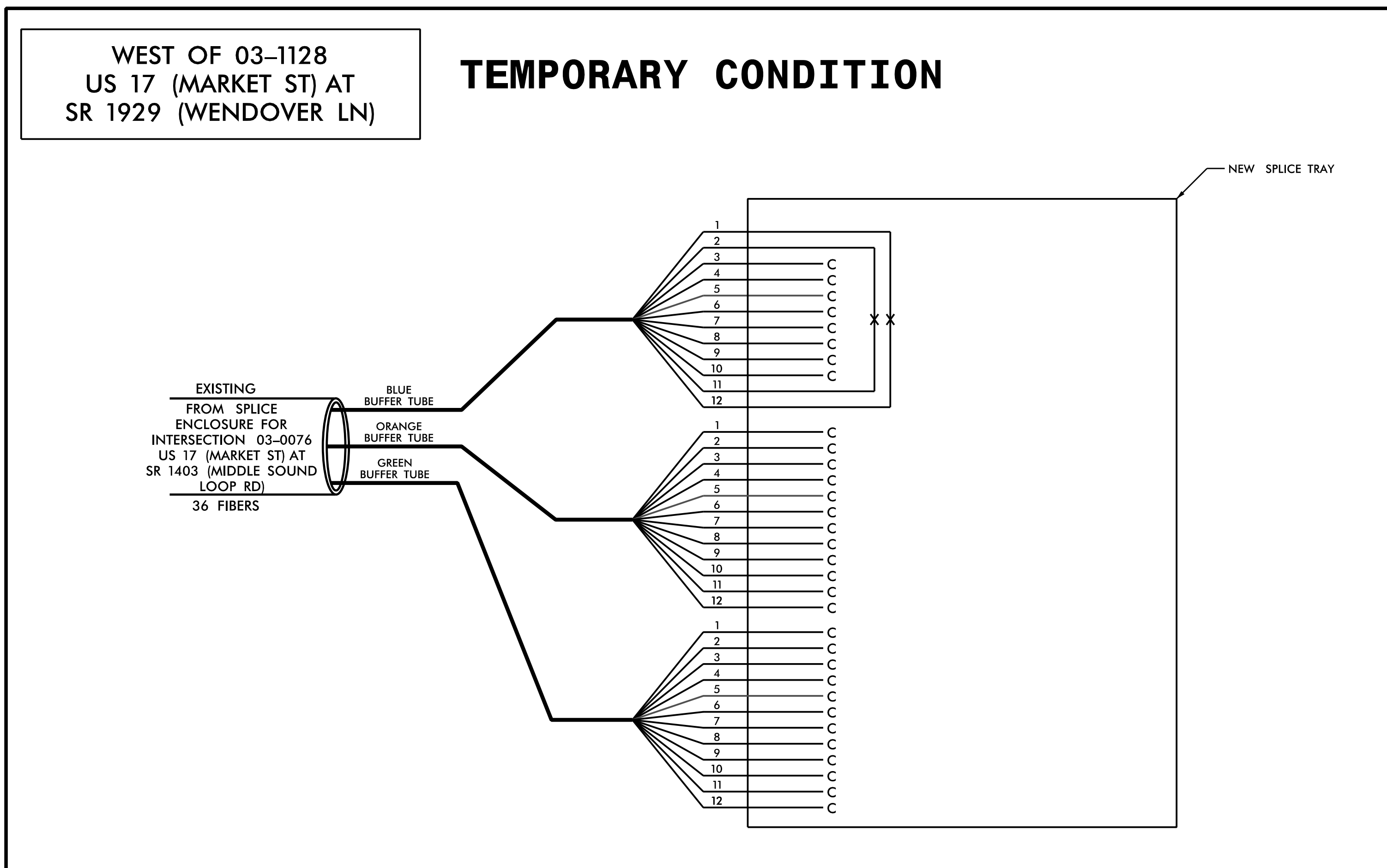
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| | | | |
|---------------------------|---|-----------|------|
| | US 17 (MARKET ST) TEMPORARY SPLICE DETAILS | | |
| | Division 03 New Hanover Co. Wilmington | | |
| PLAN DATE: February 2018 | REVIEWED BY: A.D. Klinksiek | | |
| PREPARED BY: T.R. Terrell | REVIEWED BY: N.R. Simmons | | |
| SCALE NONE | REVISIONS | INIT. | DATE |
| | | SIGNATURE | DATE |

DocuSigned by:
 Natasha R. Simmons 8/1/2018
 CADD Filename: U4902D_SCP_09.dgn

| COLOR CODE | | LEGEND | |
|------------|-------------|---------------|--|
| T/A/E/A | 598-C | | |
| (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 ENCLOSURE.
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"

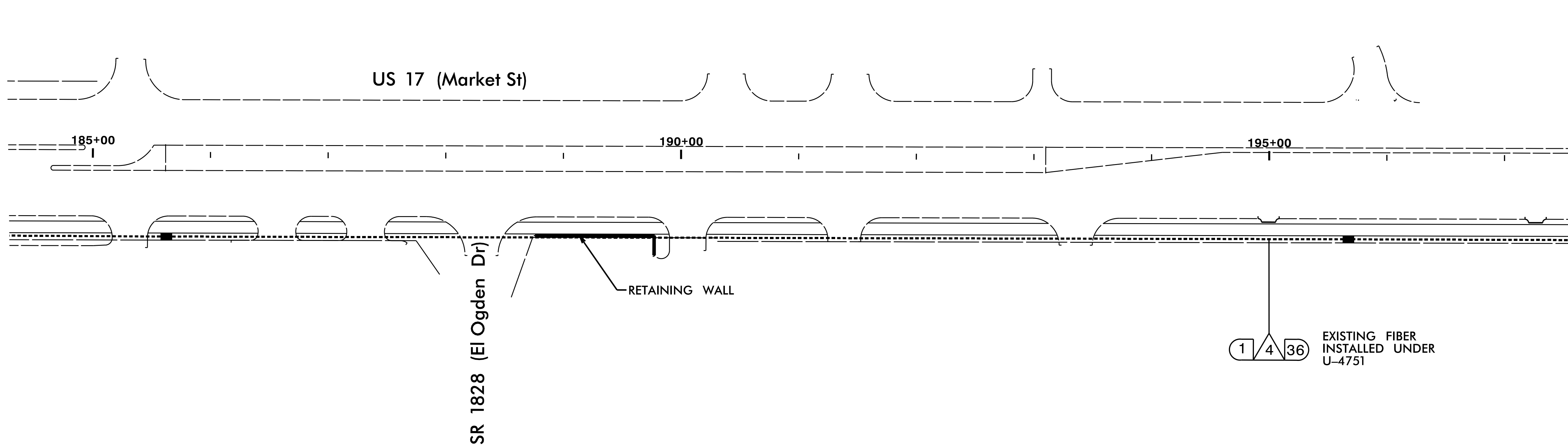
- (1) SPLICE
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- (3) COMPANY NAME
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PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH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

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| | US 17 (MARKET ST) TEMPORARY SPLICE DETAILS | | |
| | Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek PREPARED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | | |
| SCALE | REVISIONS | INIT. | DATE |
| NONE | | | |
| 250 N. Greenfield Pkwy., Garner, NC 27529 Plans Prepared for: | | Documented by: <i>Notasha R. Simmons</i> 8/1/2018 FROM: <i>Notasha R. Simmons</i> SIGNATURE DATE CADD File name: U4902D_SCP_10.dgn | |


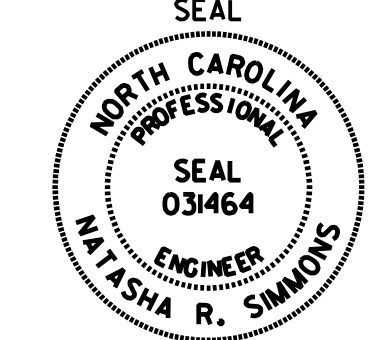

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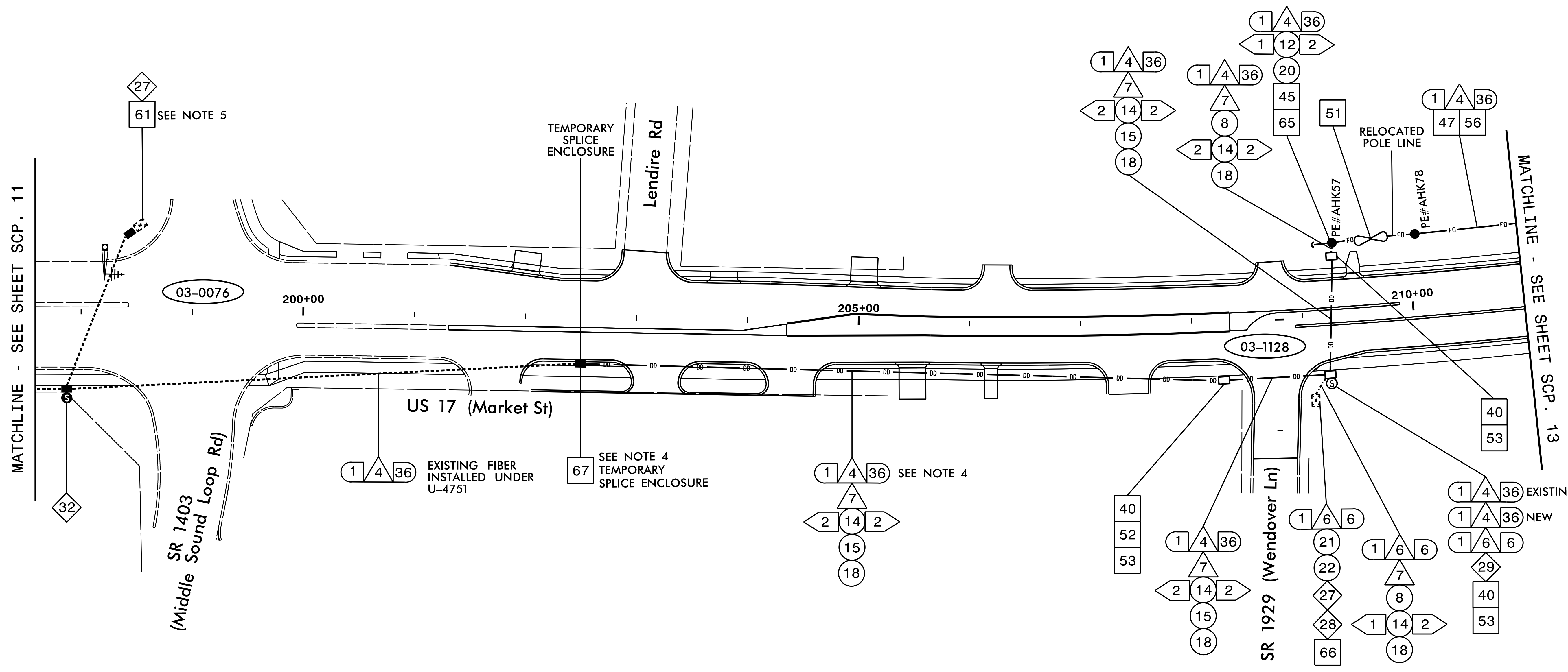


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|  <small>259 N. Greenfield Place - Garner, NC 27529</small> | <p>US 17 (MARKET ST) CABLE ROUTING PLAN</p> <p>Division 03 New Hanover Co. Wilmington</p> <p>PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell</p> <p>PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons</p> |  | | | | | | | | | |
|--|--|---|-------|------|--|--|--|--|--|--|---|
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NOTES:

- UNLESS OTHERWISE NOTED:
 - ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.
 - ATTACH ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4676 TO ARRANGE FOR THE CITY OF WILMINGTON TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE SENIOR SIGNAL SYSTEM OPERATOR AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.
- PULL THE EXISTING 36-COUNT FIBER OPTIC CABLE FROM THE TEMPORARY SPLICE ENCLOSURE THROUGH THE NEW CONDUIT TO THE PROPOSED SPLICE ENCLOSURE AT 03-1128.
- REMOVE THE EXISTING WIRELESS ASSEMBLY AND DELIVER TO THE ENGINEER.

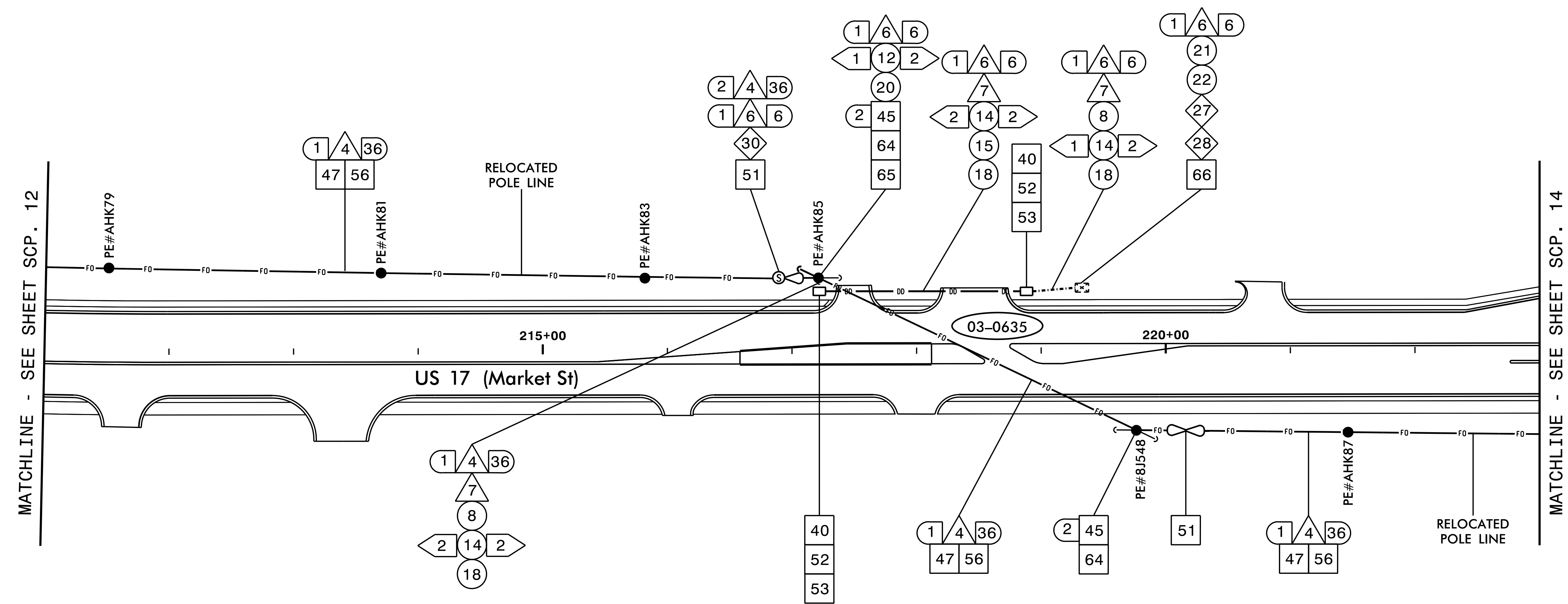
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| | US 17 (MARKET ST) CABLE ROUTING PLAN | | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell | |
| 250 N. Greenfield Pkwy., Garner, NC 27529 | | REVISIONS: | INIT. DATE |
| SCALE: 0 50 1" = 50' | | Documented by: <i>Natasha R. Simmons</i> 8/1/2018 SIGNATURE DATE CADD File name: U4902D_SCP_12.dgn | |



NOTES:

- 1. UNLESS OTHERWISE NOTED:
 -ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.
 -ATTACH ON FRONT SIDE (FS) OF POLE.
- 2. SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
- 3. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4676 TO ARRANGE FOR THE CITY OF WILMINGTON TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE SENIOR SIGNAL SYSTEM OPERATOR AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.

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US 17 (MARKET ST)
CABLE ROUTING PLAN

Division 03 New Hanover Co. Wilmington

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

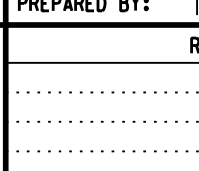
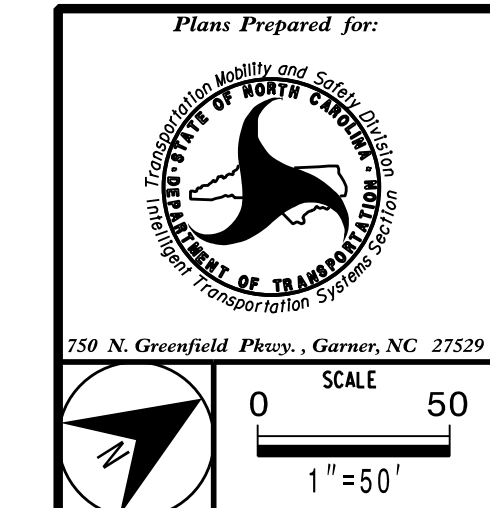
PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons

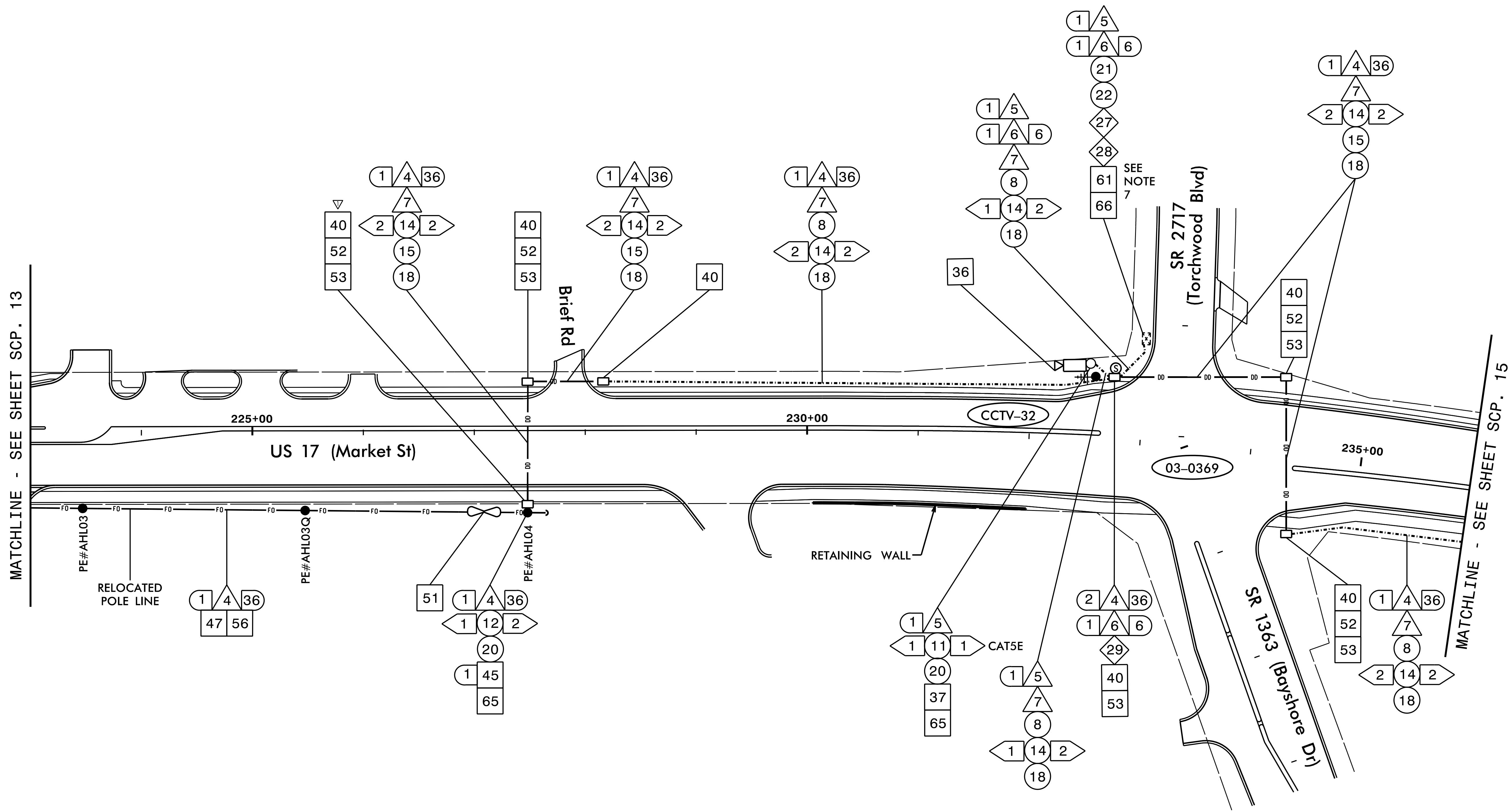
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Seal: Notasha R. Simmons, 8/1/2018, ENGINEER, SEAL 031464

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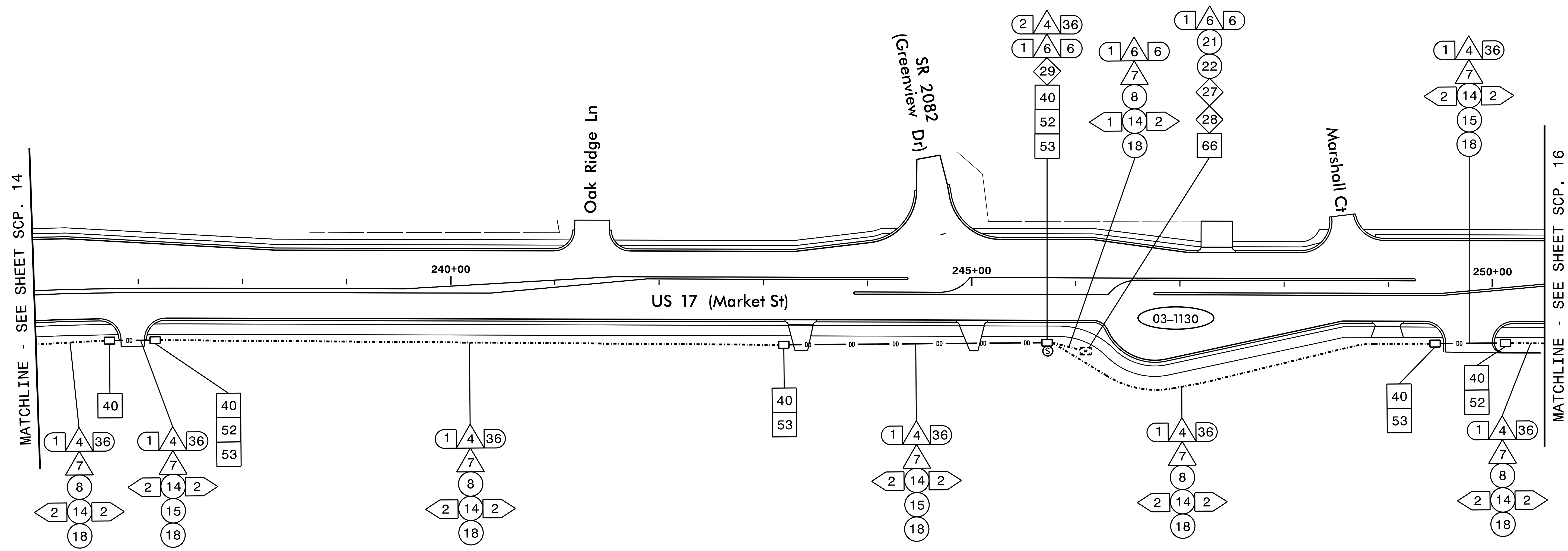
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 - CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4676 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.
 - MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 - DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA HAS BEEN CONFIRMED BY THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER.
 - REMOVE THE EXISTING WIRELESS ASSEMBLY AND DELIVER TO THE ENGINEER.

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| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell |
| PREPARED BY: N.K. Vlanich | REVIEWED BY: N.R. Simmons | REVISIONS <input checked="" type="checkbox"/> Relocated Junction Box to base of pole. |
| 250 N. Greenfield Place, Garner, NC 27529 0 SCALE 50 1" = 50' | INIT. DATE | SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS 11/4/2020 CADD File name: U4902D_SCP_14.dgn |



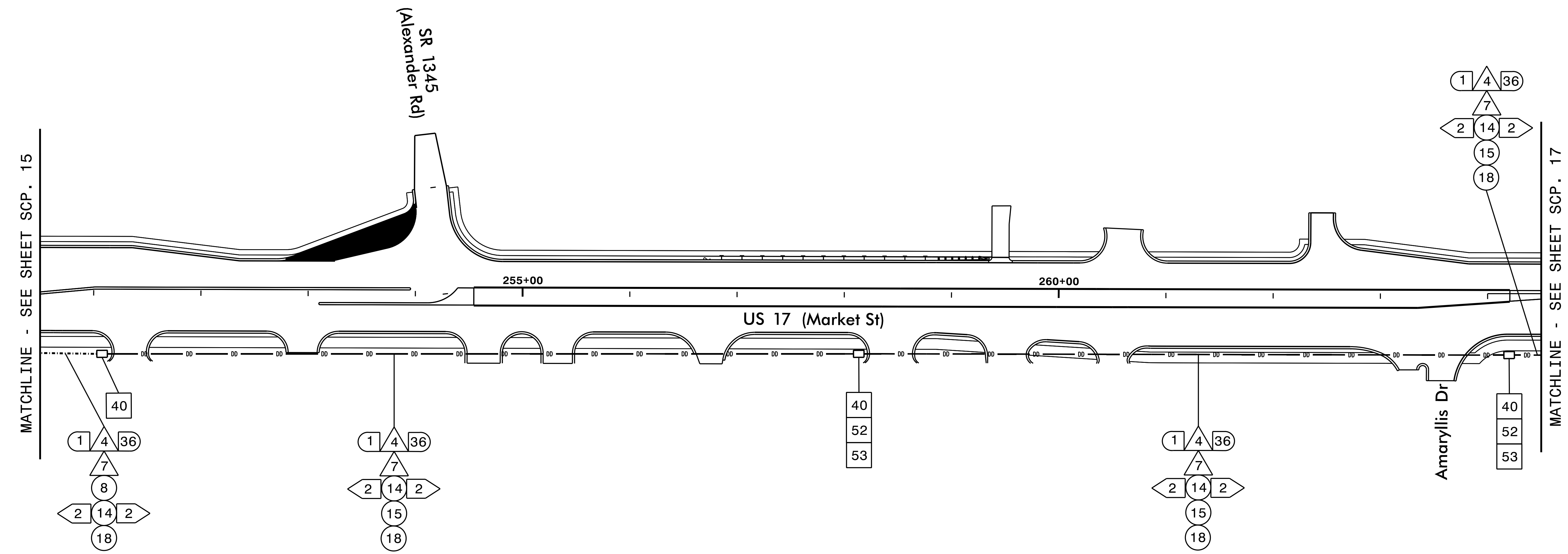
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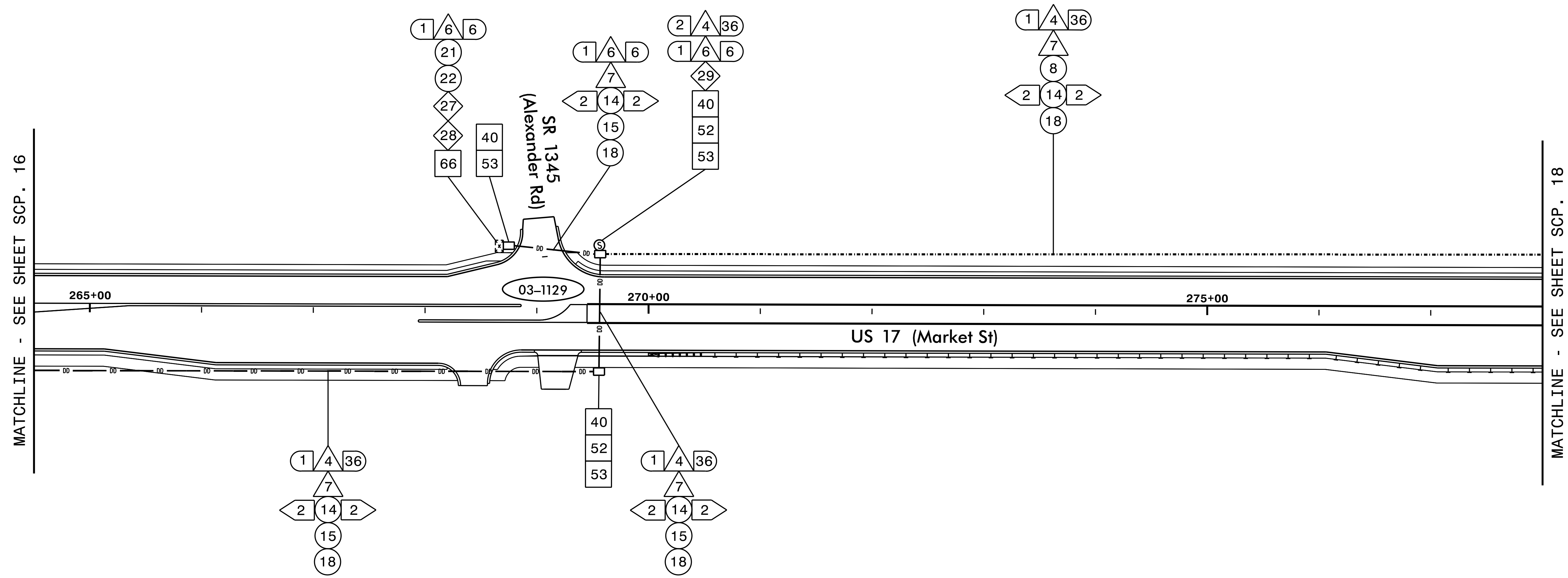
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|---|---|--|
| | US 17 (MARKET ST) CABLE ROUTING PLAN | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell |
| PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons | REVISIONS | INIT. DATE |
| DocuSigned by: 8/1/2018 | SIGNATURE | DATE |
| CADD File name: U4902D SCP 16.dgn | | |



NOTES:

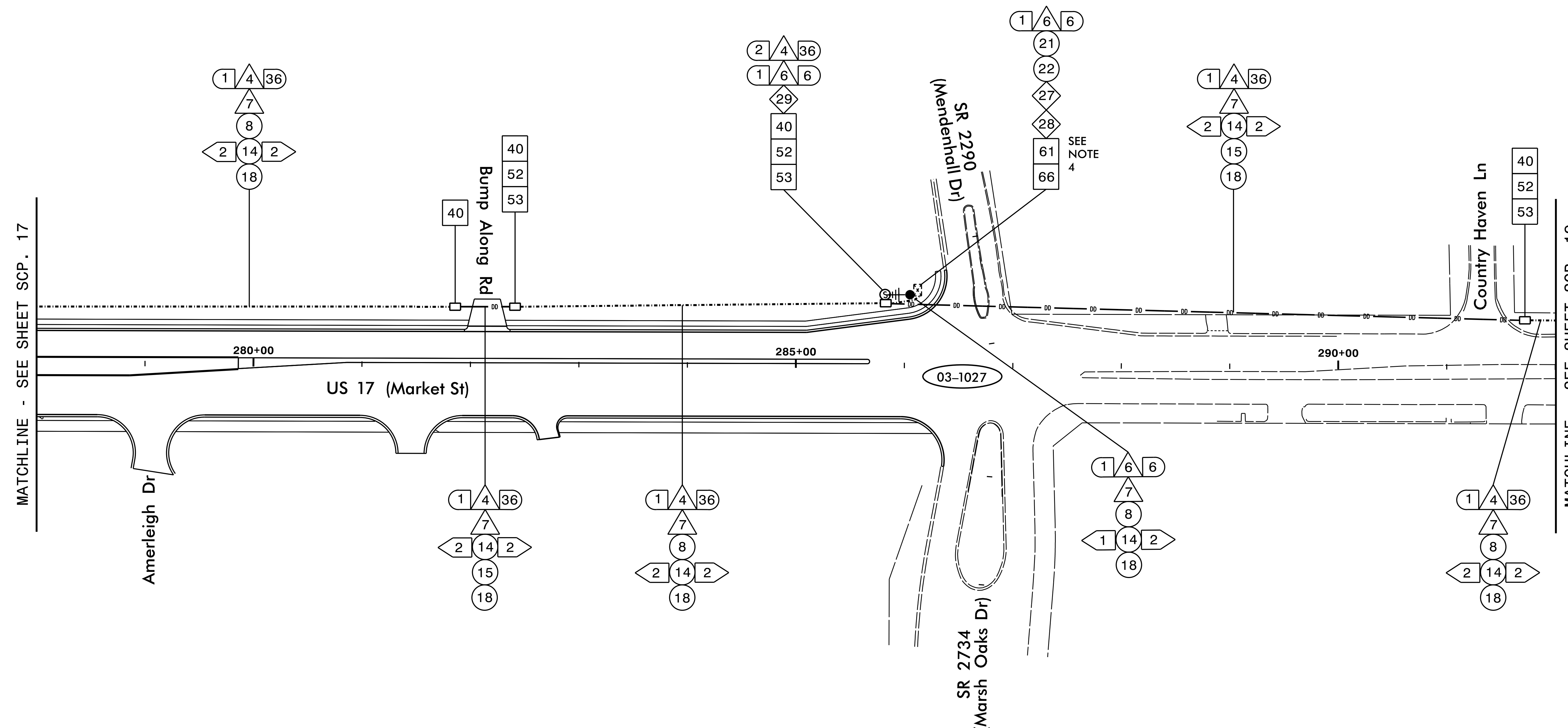
- UNLESS OTHERWISE NOTED:
 -ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.
 -ATTACH ON FRONT SIDE (FS) OF POLE.
- SEAL ALL CONDUIT ENTRANCES WITH DUCT AND CONDUIT SEALER AT ALL JUNCTION BOX/CABINET ENTRANCES.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4676 TO ARRANGE FOR THE CITY OF WILMINGTON TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE SENIOR SIGNAL SYSTEM OPERATOR AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.

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

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**DOCUMENT NOT CONSIDERED FINAL
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| | US 17 (MARKET ST) CABLE ROUTING PLAN | | | | | | |
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| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell | | | | | |
| PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons | <table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | REVISIONS | INIT. | DATE | | | |
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| | | | | | | | |
| | Signed by: <i>Natasha R. Simmons</i> 8/1/2018 PROFESSIONAL ENGINEER SIGNATURE DATE CADD File name: U4902D_SCP_17.dgn | | | | | | |



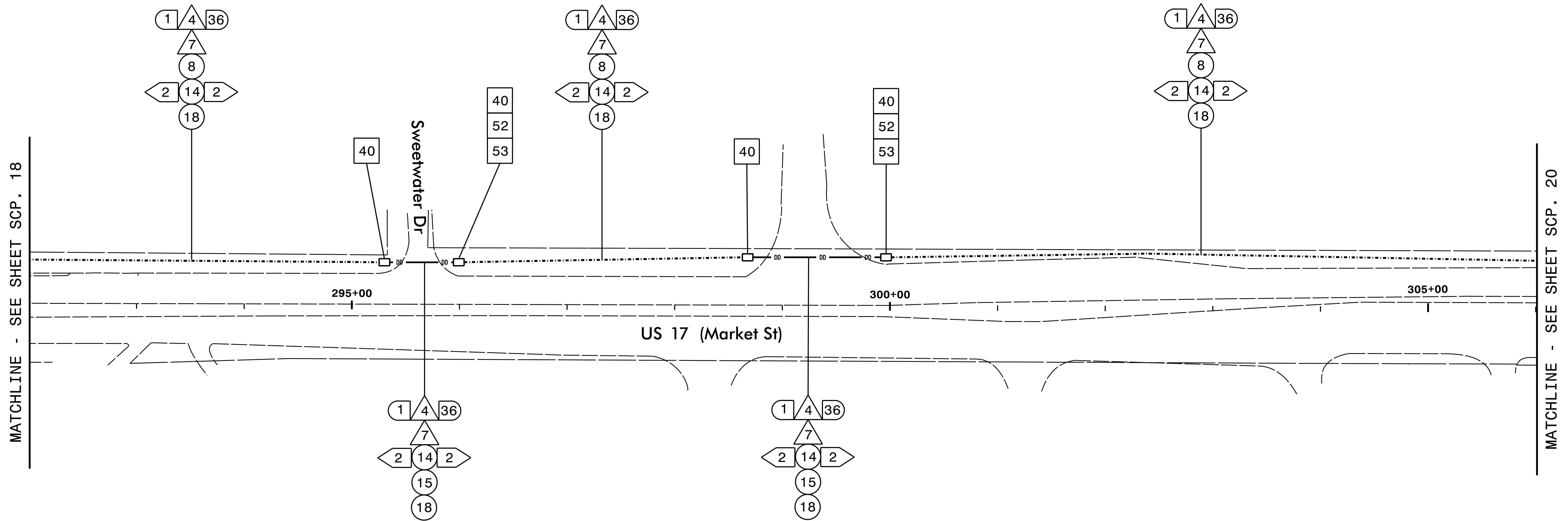
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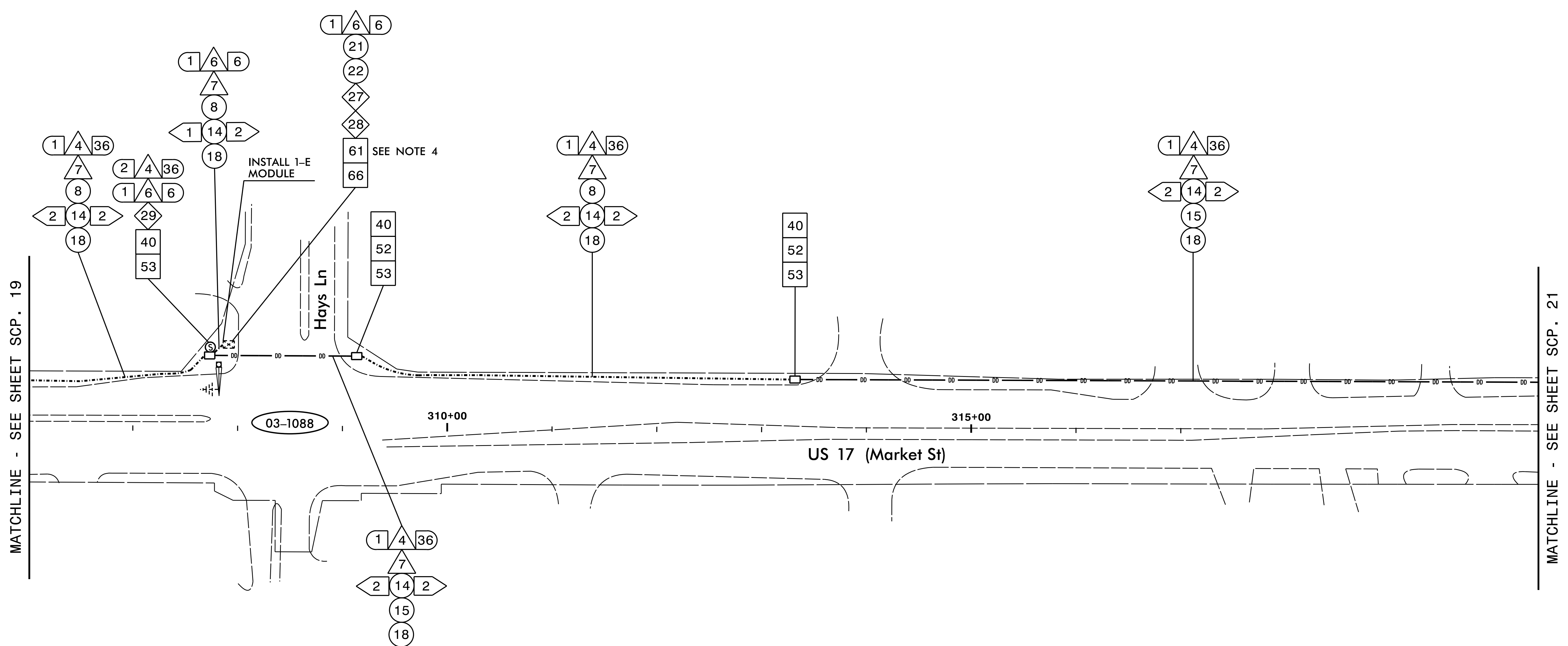
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| Plans Prepared for: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 250 N. Greenfield Place, Garner, NC 27529 | US 17 (MARKET ST) CABLE ROUTING PLAN | | SEAL SEAL NATASHA R. SIMMONS |
| | Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell PREPARED BY: N.K. Vlanich REVIEWED BY: N.R. Simmons | REVISIONS INIT. DATE | |



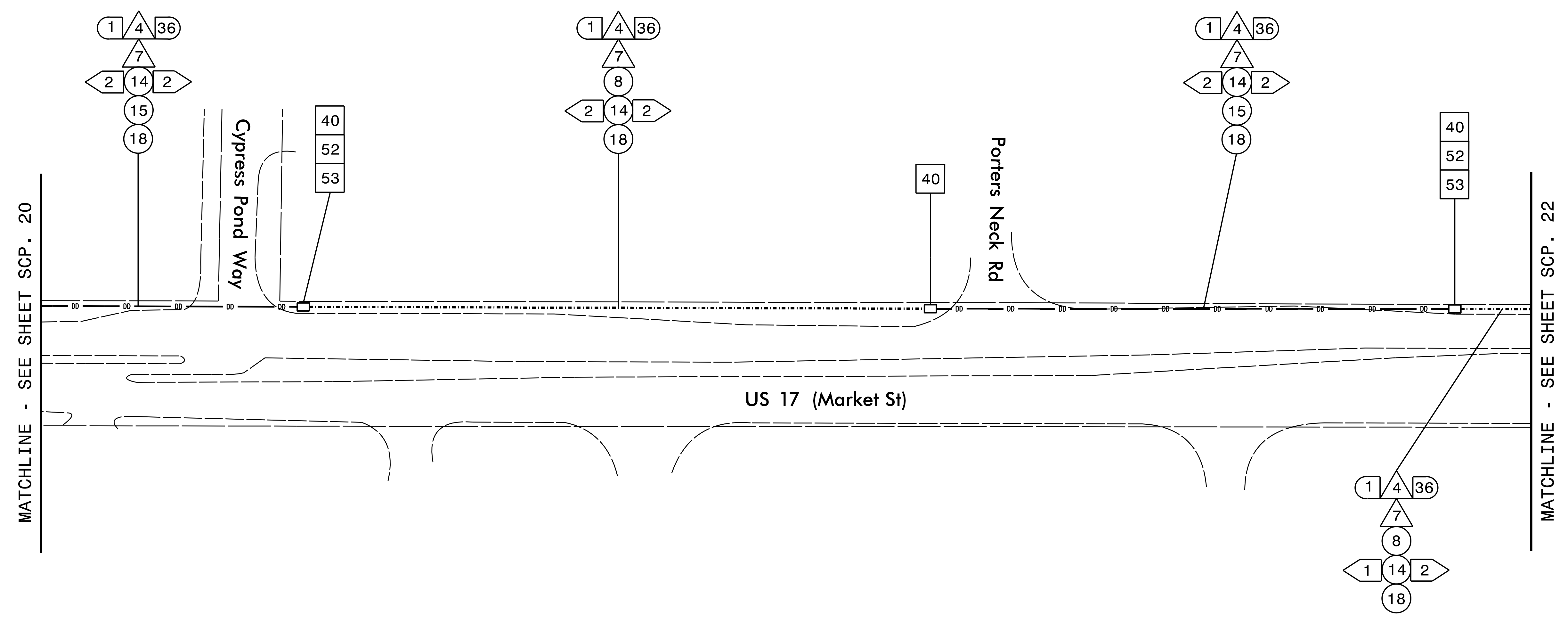
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| 250 N. Greenfield Place, Garner, NC 27529 | REVISIONS | INIT. DATE | Documented by: <i>Notasha R. Simmons</i> 8/1/2018 PROFESSIONAL ENGINEER SIGNATURE DATE CADD File name: U4902D SCP 20.dgn |



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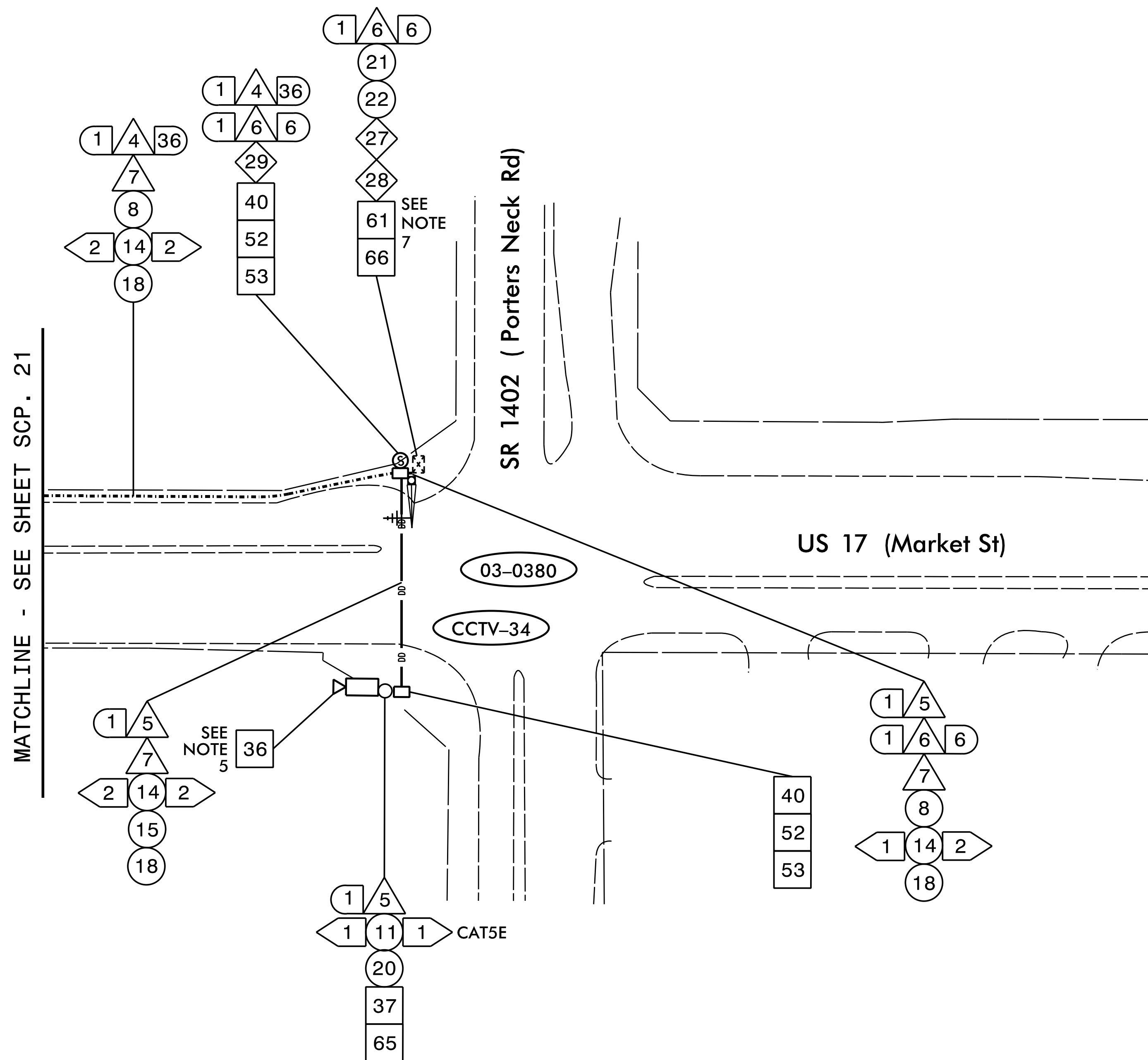
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| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell | |
| SCALE 0 50 1" = 50' | REVISIONS INIT. DATE | SIGNATURE DATE | SEAL DATE |

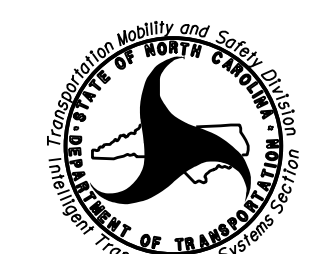
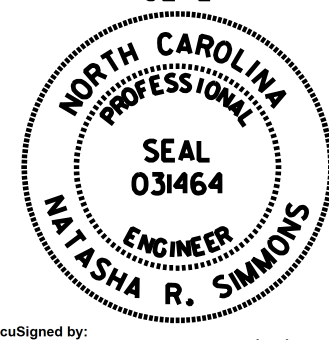
DocuSigned by:
 Natasha R. Simmons 8/1/2018
 CADD File name: U4902D_SCP_21.dgn

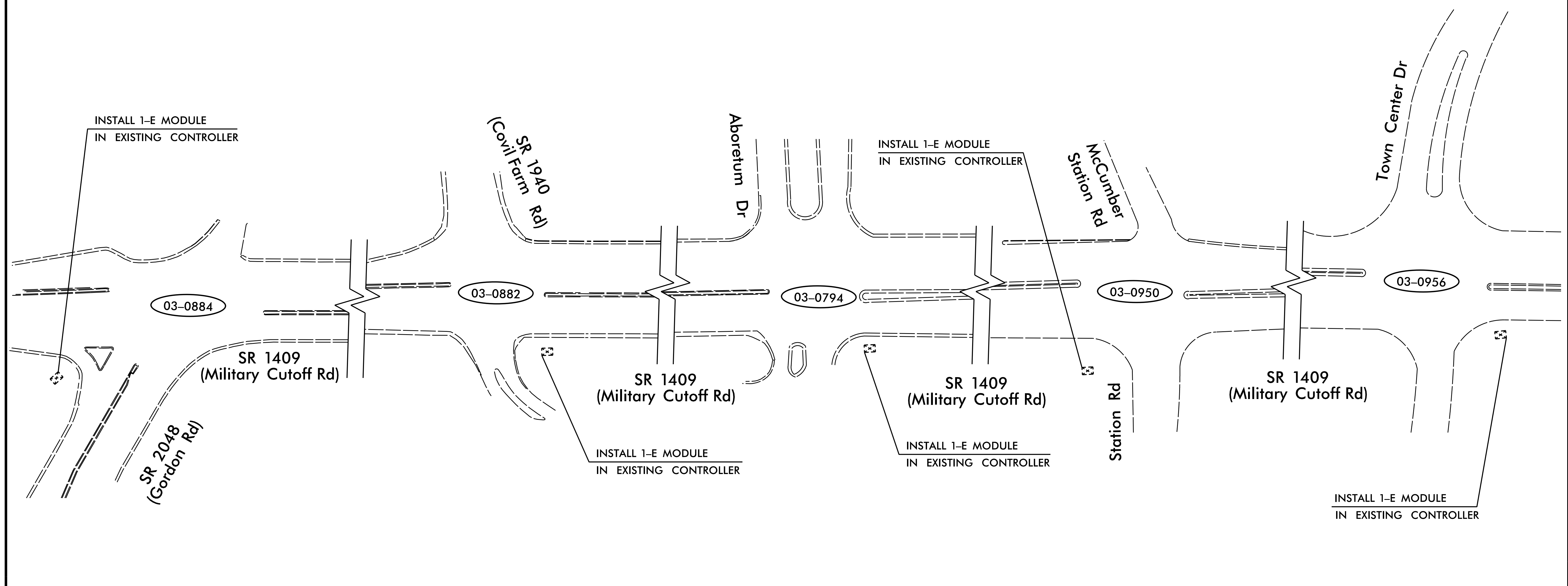


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4. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341-4676 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.
5. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
6. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE LOCATION OF THE CCTV CAMERA HAS BEEN CONFIRMED BY THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER.
7. REMOVE THE EXISTING WIRELESS ASSEMBLY AND DELIVER TO THE ENGINEER.

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| | | | |
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| Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529 | | DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| US 17 (MARKET ST) CABLE ROUTING PLAN | | Division 03 New Hanover Co. Wilmington | |
| PLAN DATE: February 2018 PREPARED BY: N.K. Vlanich | REVIEWED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | REVISIONS INIT. DATE | SEAL  SIGNATURE DATE CADD Filename: U4902D_SCP_22.dgn |



LEGEND

NEW CONTROLLER AND CABINET

EXISTING CONTROLLER AND CABINET

SIGNAL INVENTORY NUMBER

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Raleigh, North Carolina 27609
NC License No: C-1554
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Plans Prepared for:

US 17 (MARKET ST)
WIRELESS COMMUNICATIONS PLANS

Division 03 New Hanover Co. Wilmington

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

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

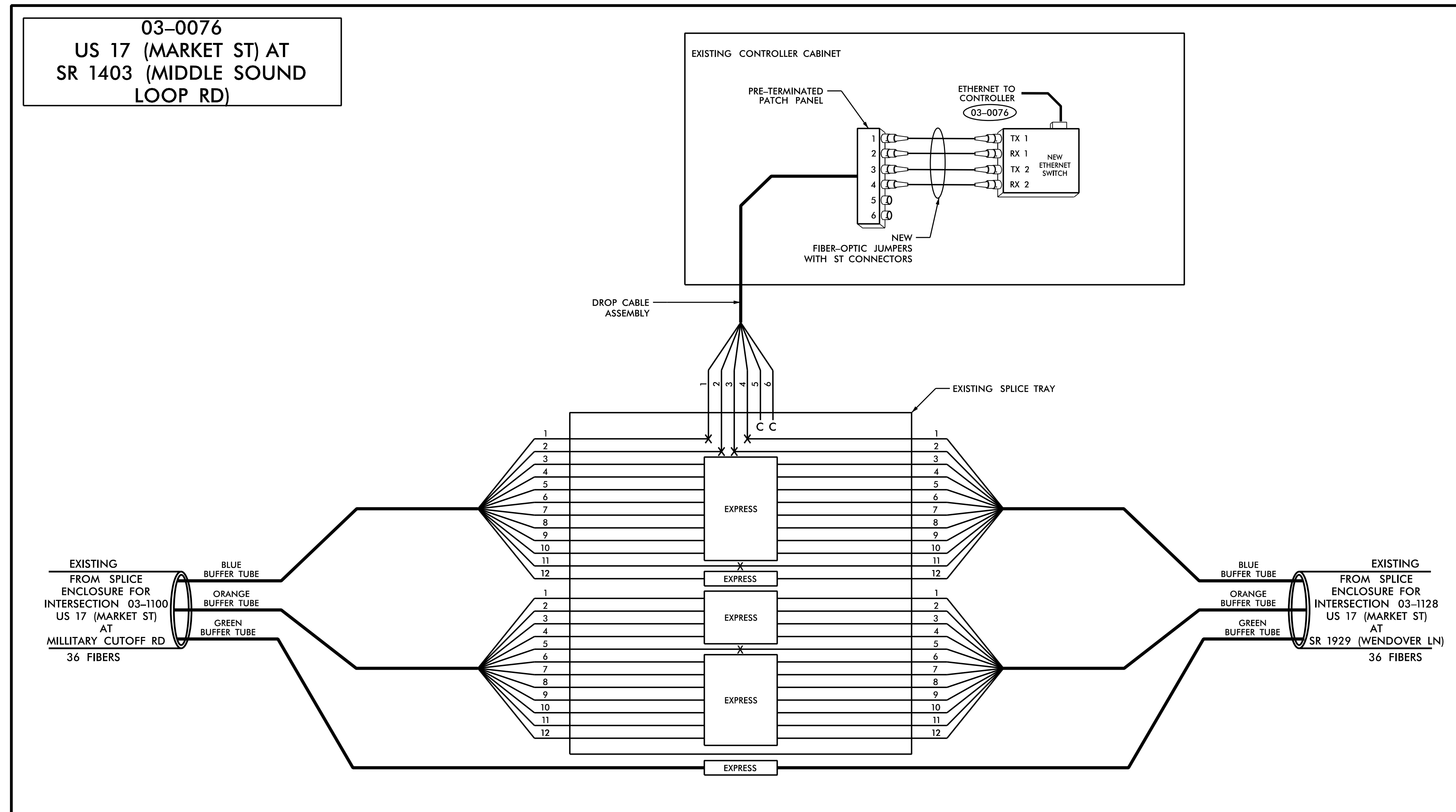
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0 SCALE 50
1" = 50'

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464
Signature: Natasha R. Simmons 8/1/2018

CADD File name: U4902D SCP 23.dgn

| COLOR CODE TIA/EIA 598-C | | | LEGEND | |
|--------------------------|-------------|---|--------|--|
| (1) BLUE | (7) RED | X = NEW FUSION SPLICE INDIVIDUAL FIBER | | |
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| (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:

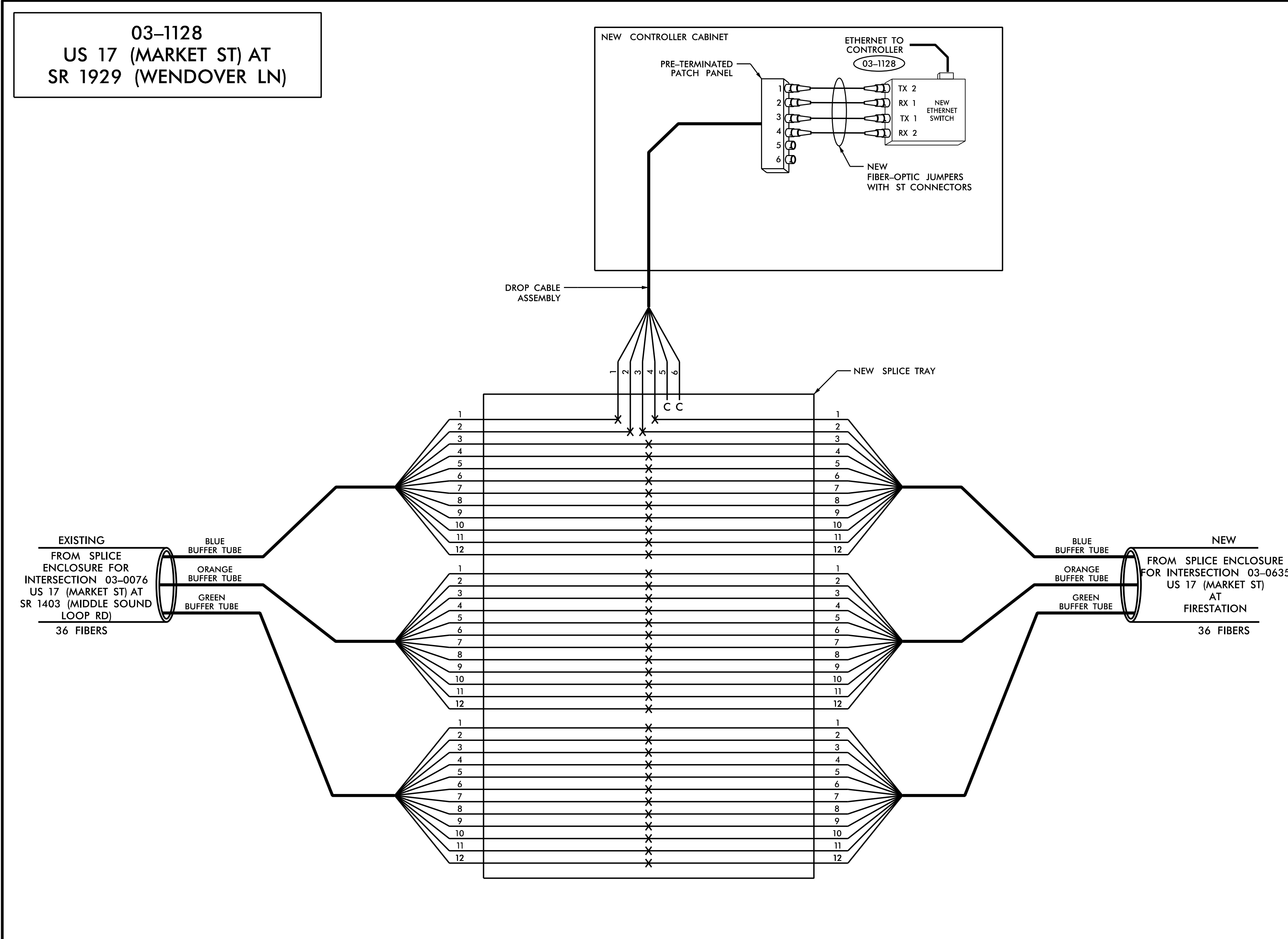
1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE.
3. TRANSCIVER TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING /ENSURING PROPER TERMINATION.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: 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 TO THE ENGINEER.

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| SCALE | NONE | REVISIONS _____ _____ _____ | INIT. DATE _____ _____ _____ |
| SEAL SEAL 031464 NATASHA R. SIMMONS | | Signed by: Natasha R. Simmons 8/1/2018 _____ SIGNATURE DATE CADD Filename: U4902D SCP 24.dgn | |



| COLOR CODE TIA/EIA 598-C | | | LEGEND | |
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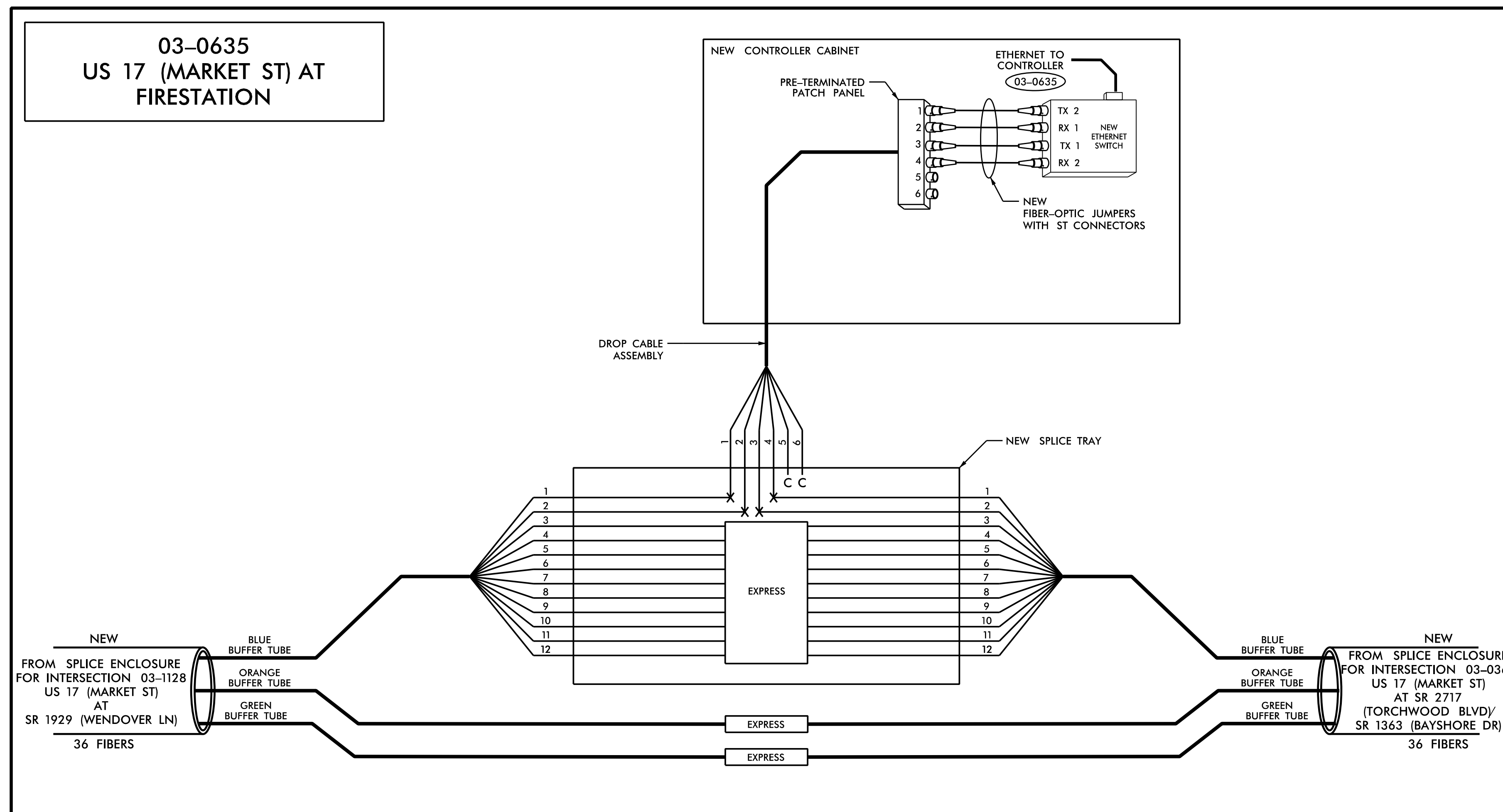
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| SCALE NONE | REVISIONS _____ | INIT. DATE _____ |

250 N. Greenfield Place, Garner, NC 27529

DocuSigned by: *Natasha R. Simmons* 8/1/2018

CADD Filename: U4902D_SCP_25.dgn

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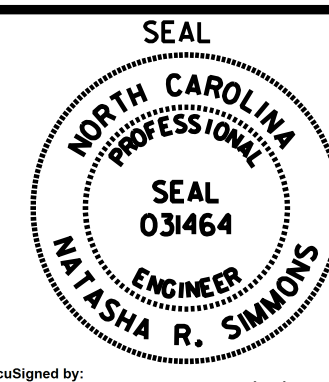
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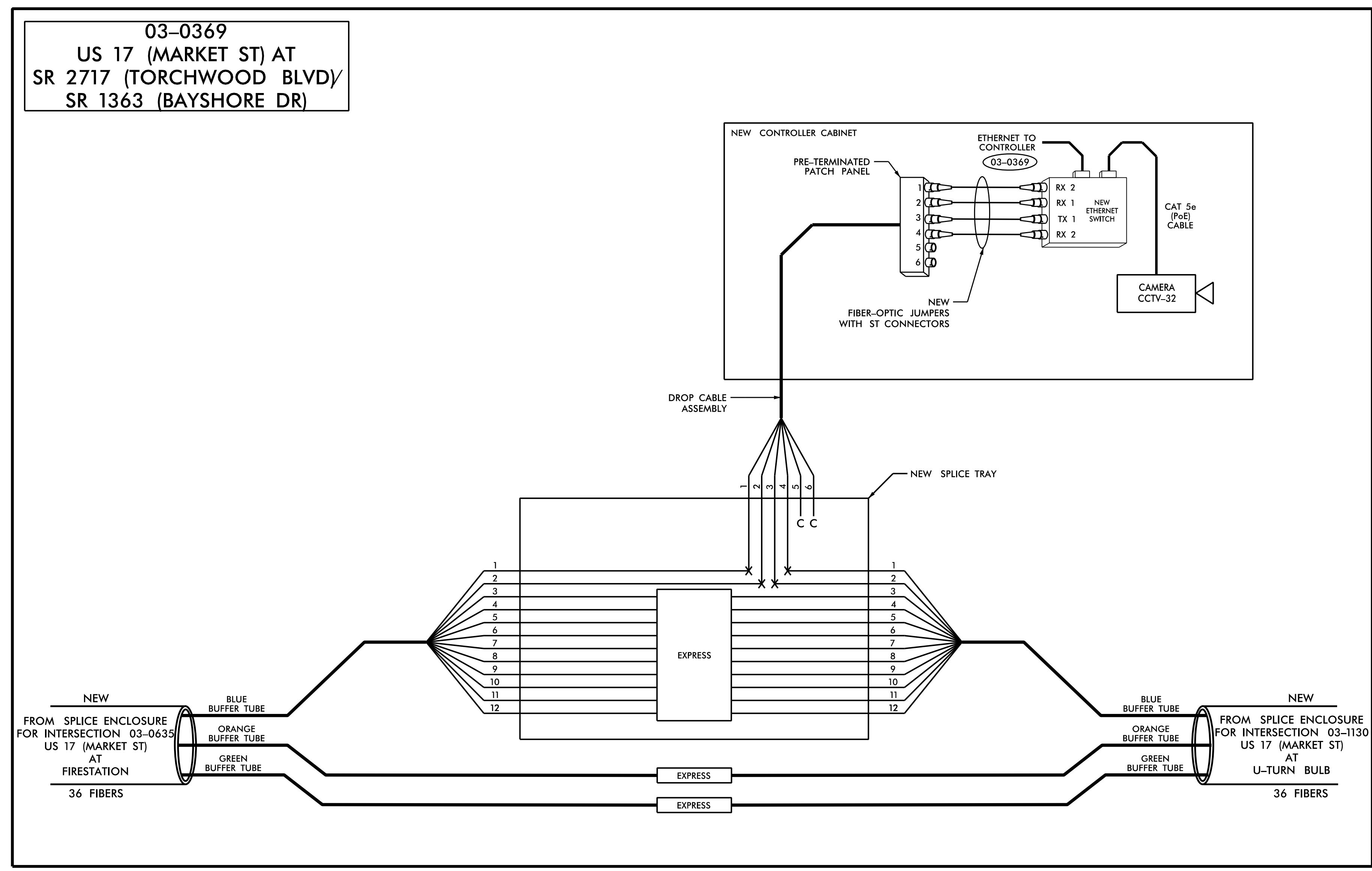
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| REVISIONS | | INIT. | DATE |
| | | | |
| | | Notarized by: Notarize R. Simmons 8/1/2018 SIGNATURE DATE CADD Filename: U4902D SCP 26.dgn | |

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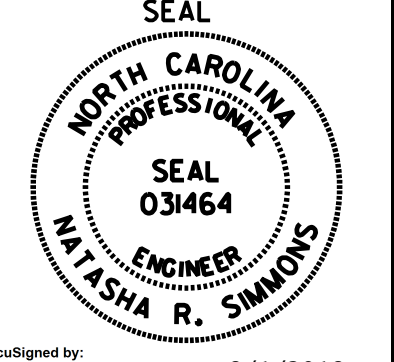
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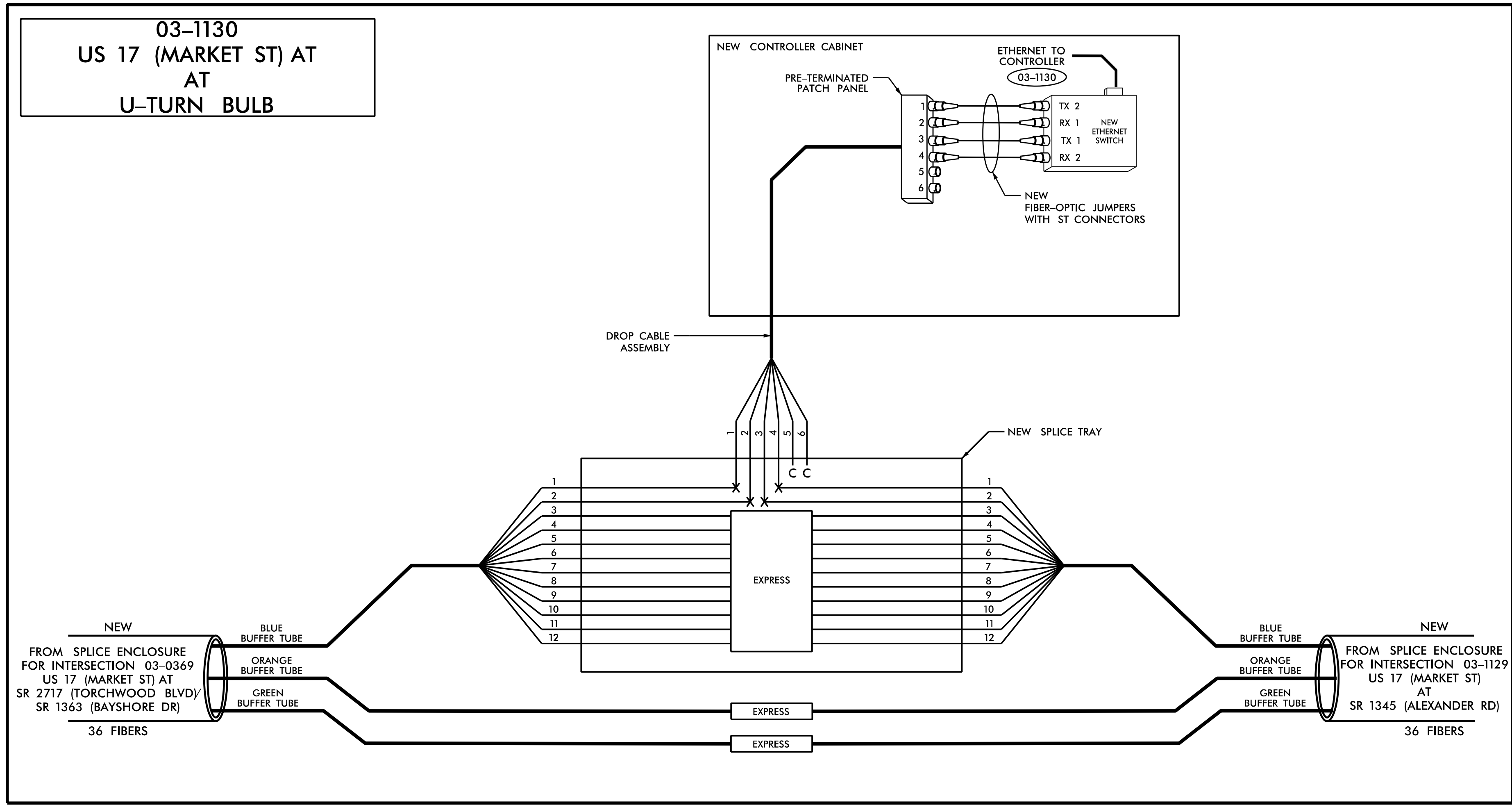
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| Plans Prepared for:  250 N. Greenfield Place, Garner, NC 27529 | | US 17 (MARKET ST) SPLICE DETAILS Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek PREPARED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | |
| SCALE | NONE | REVISIONS _____ _____ _____ | SEAL  SEAL 031464 NATASHA R. SIMMONS ENGINEER SIGNATURE DATE _____ 8/1/2018 _____ _____ CADD Filename: U4902D SCP 27.dgn |

| COLOR CODE TIA/EIA 598-C | | | LEGEND | |
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| (1) BLUE | (7) RED | X = NEW FUSION SPLICE INDIVIDUAL FIBER | | |
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NOTES:

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4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

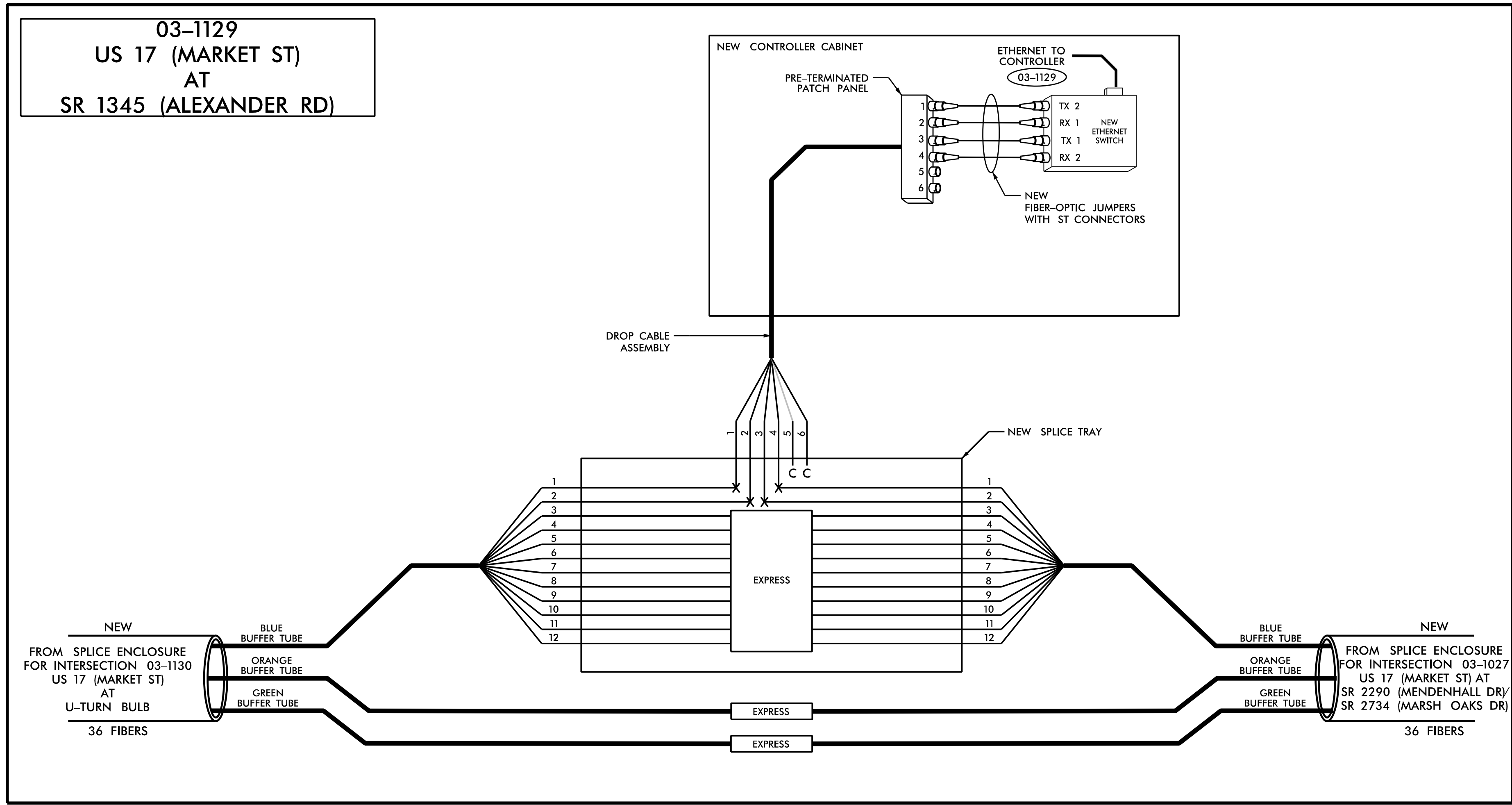
- (1) SPLICE
- (2) DATE
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PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS TO THE ENGINEER.

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| SCALE NONE | | PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek PREPARED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | |
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| SEAL  | | SEAL 031464 NATASHA R. SIMMONS | |
| CADD File name: U4902D_SCP_28.dgn | | 8/1/2018 | |

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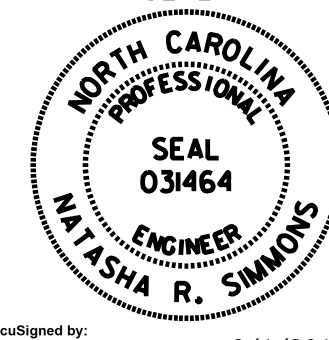
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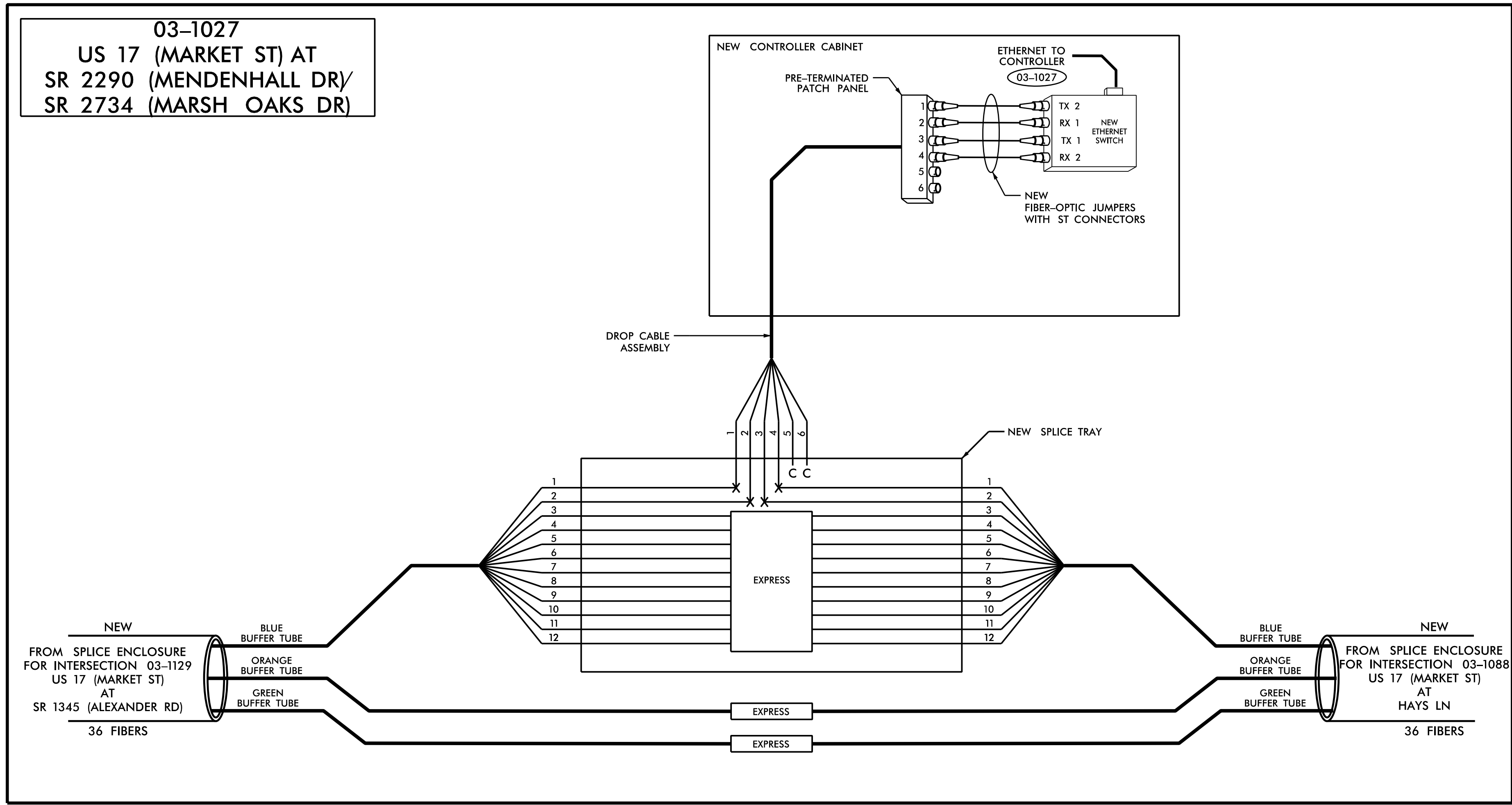
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| Division 03 New Hanover Co. Wilmington | | SEAL  | |
| PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek | | PREPARED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | |
| SCALE NONE | | REVISIONS INIT. DATE | |
| 250 N. Greenfield Pkwy., Garner, NC 27529 | | SEAL Natasha R. Simmons 8/1/2018 SIGNATURE DATE CADD Filename: U4902D SCP 29.dgn | |

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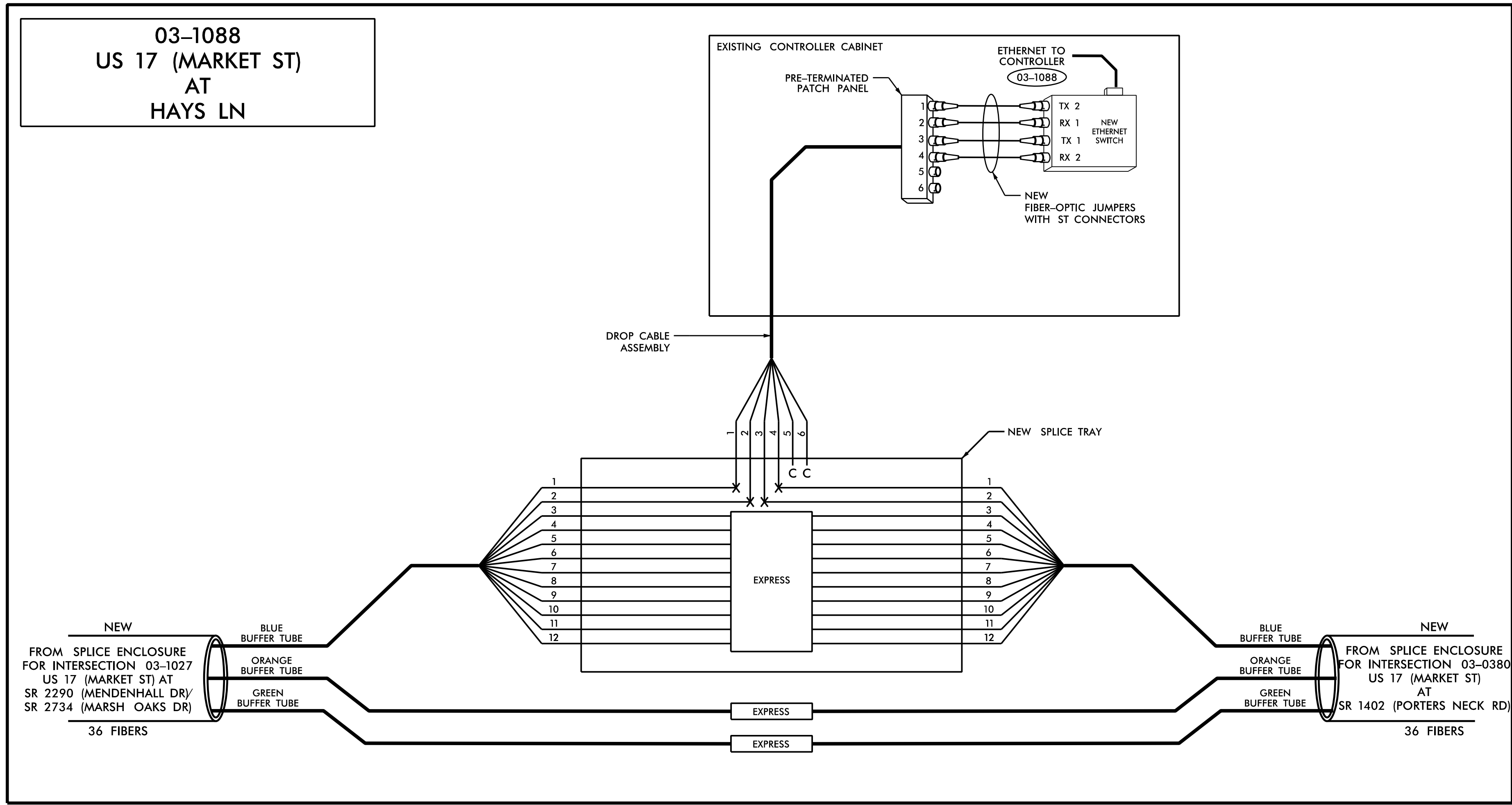
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| SCALE | NONE | SEAL |  SEAL 031464 NATASHA R. SIMMONS ENGINEER |
| REVISIONS | INIT. | DATE | Documented by: Natasha R. Simmons 8/1/2018 SIGNATURE DATE CADD Filename: U4902D_SCP_30.dgn |

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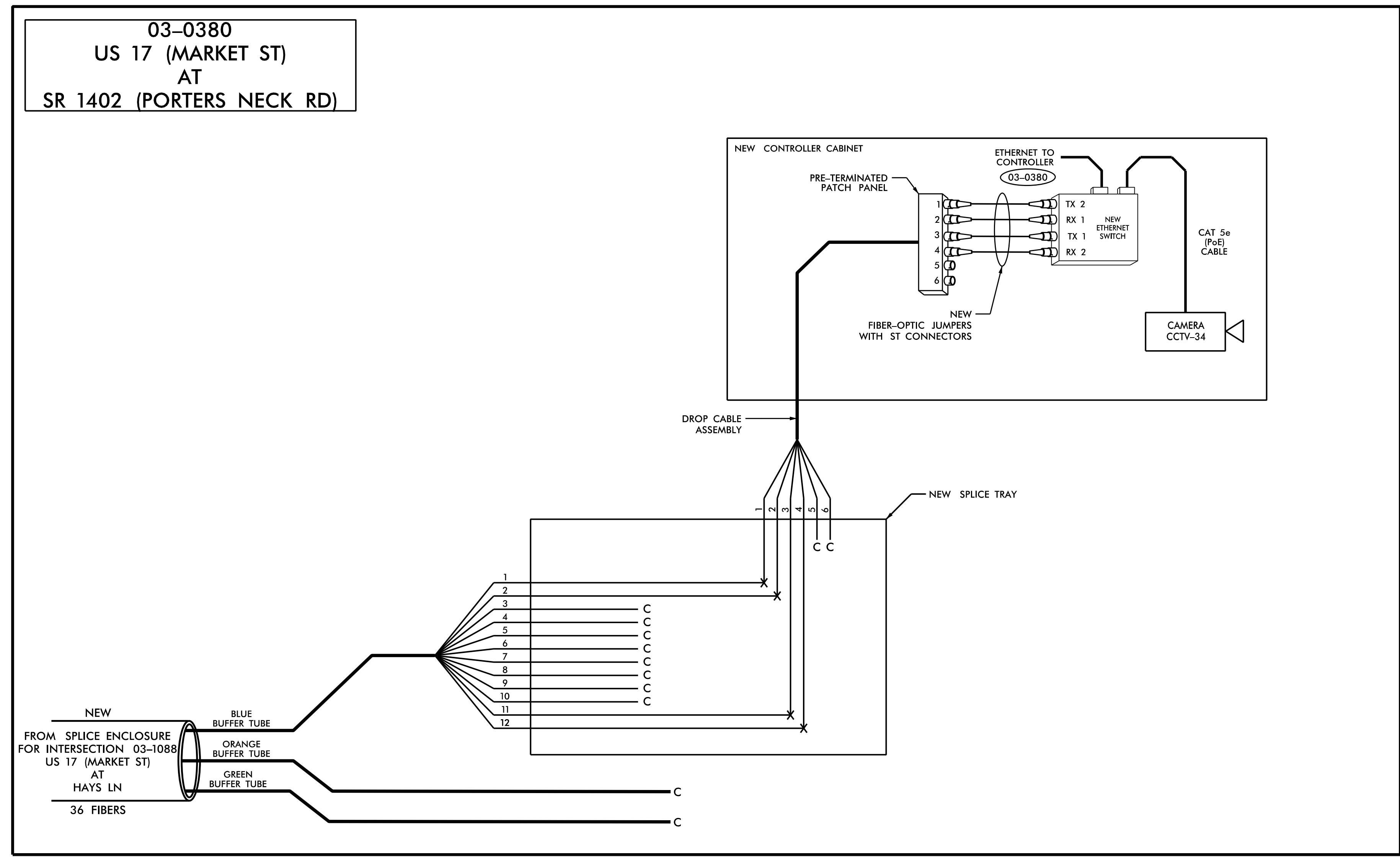
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| | | | 8/1/2018 |
| | | SIGNATURE | DATE |
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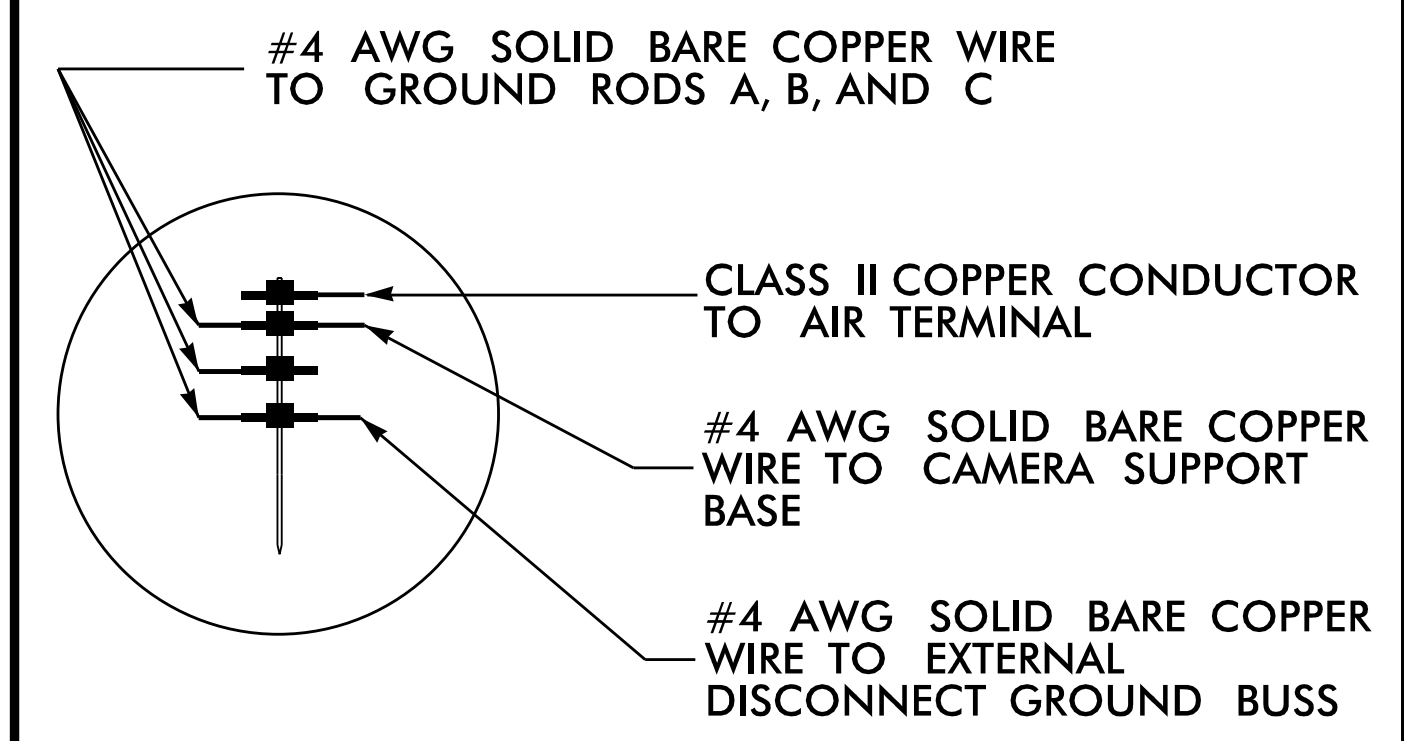
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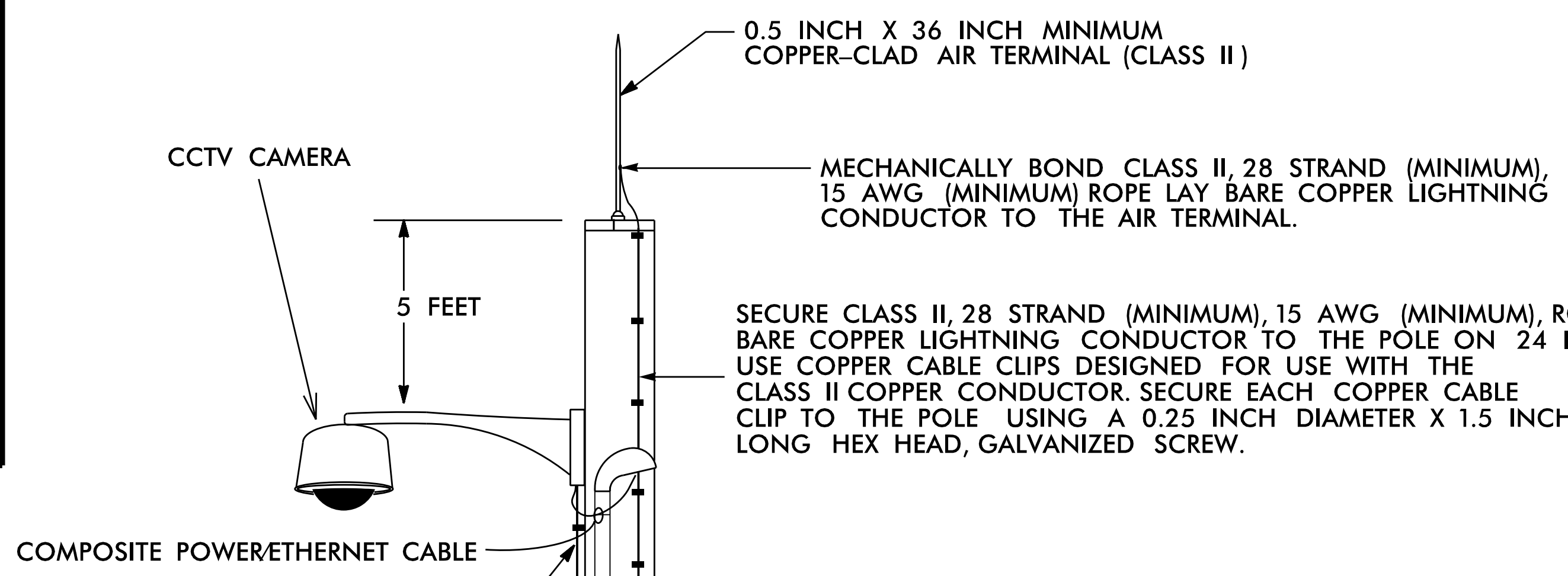
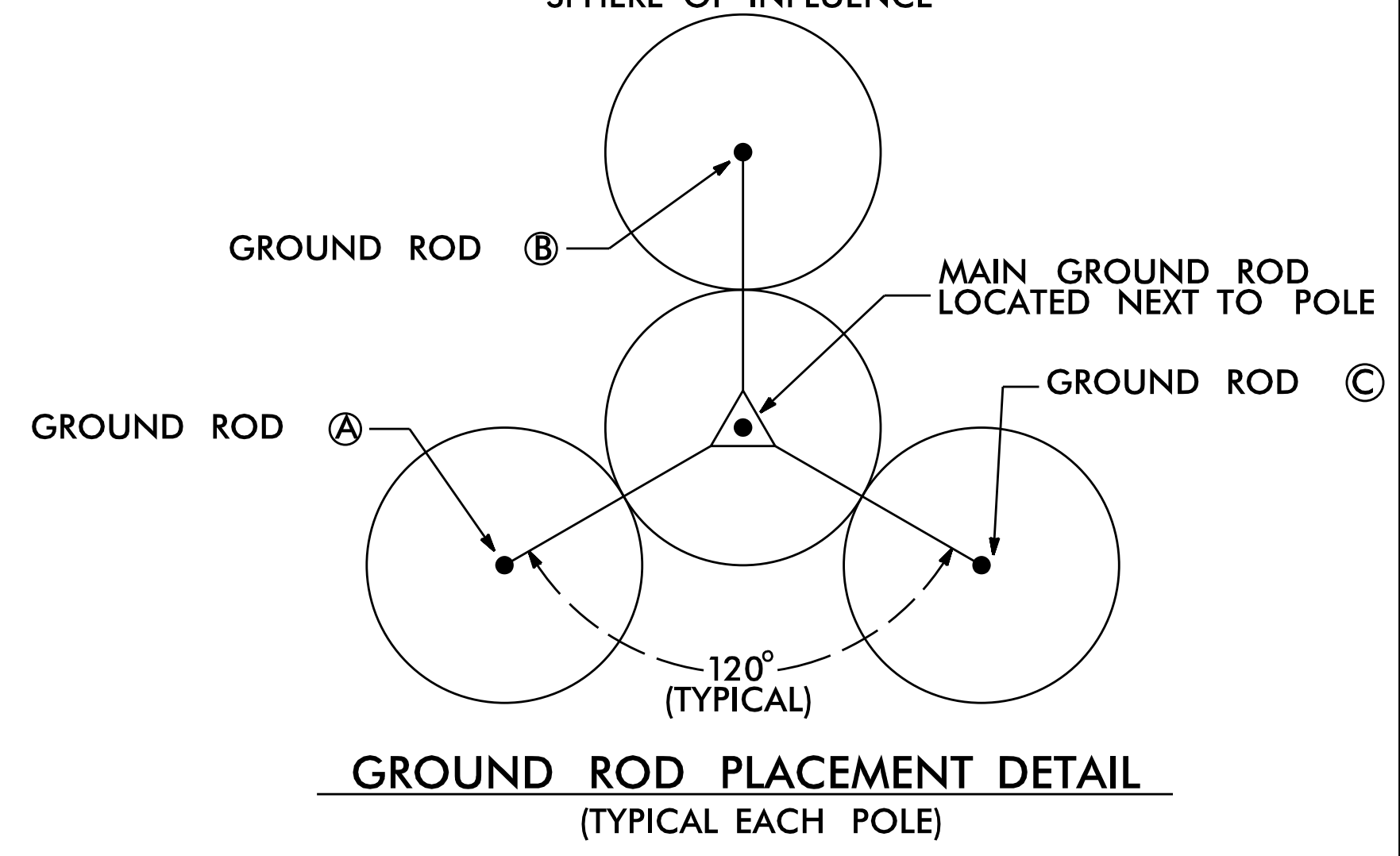
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| | US 17 (MARKET ST) SPLICE DETAILS | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek |
| PREPARED BY: T.R. Terrell REVIEWED BY: N.R. Simmons | REVISIONS | INIT. DATE |
| SCALE: NONE | SIGNATURE: <i>Natasha R. Simmons</i> | DATE: 8/1/2018 |

CADD Filename: U4902D_SCP_32.dgn

INSET 'A'



10 FOOT RADIUS EACH "SPHERE OF INFLUENCE"

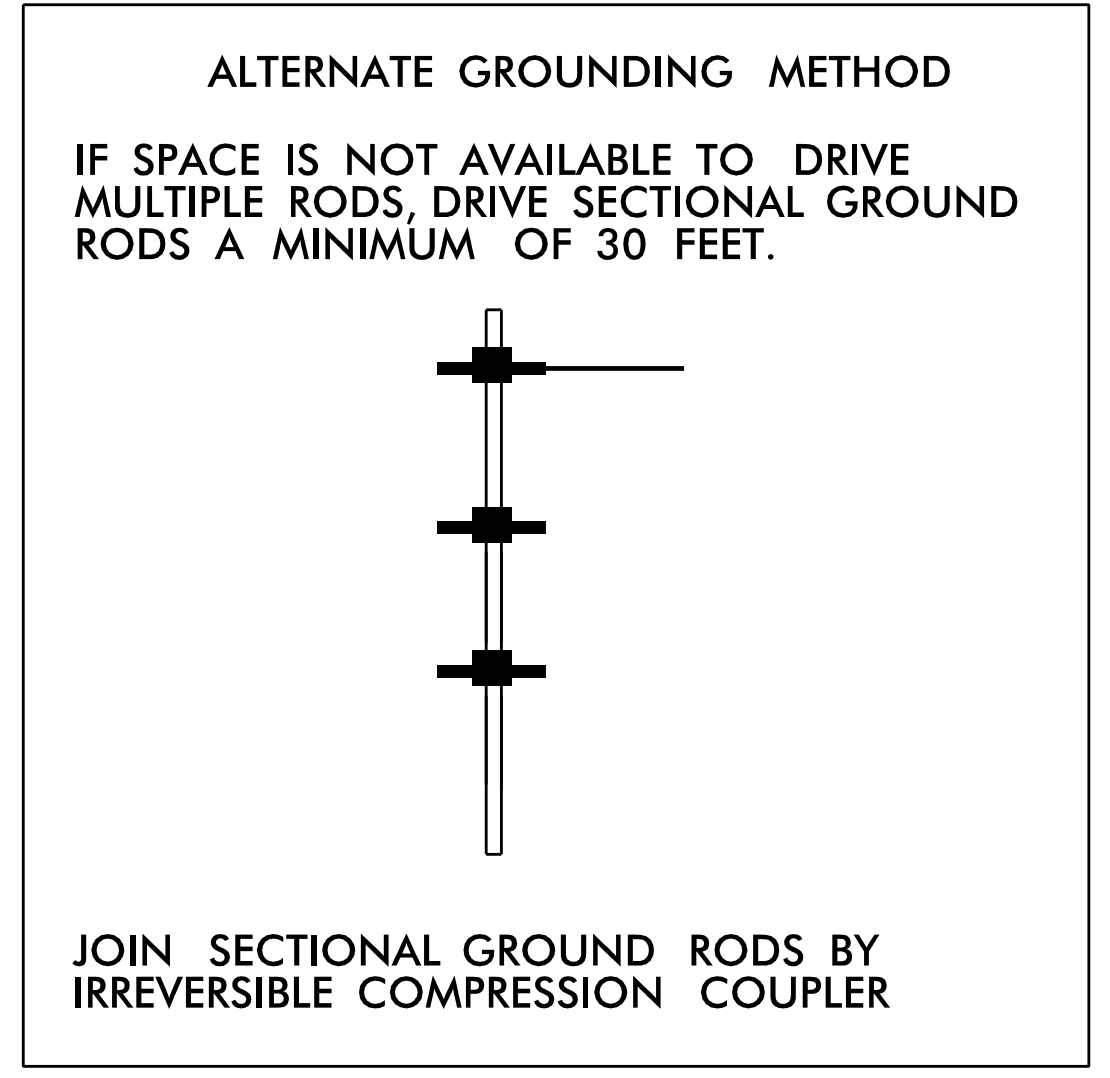
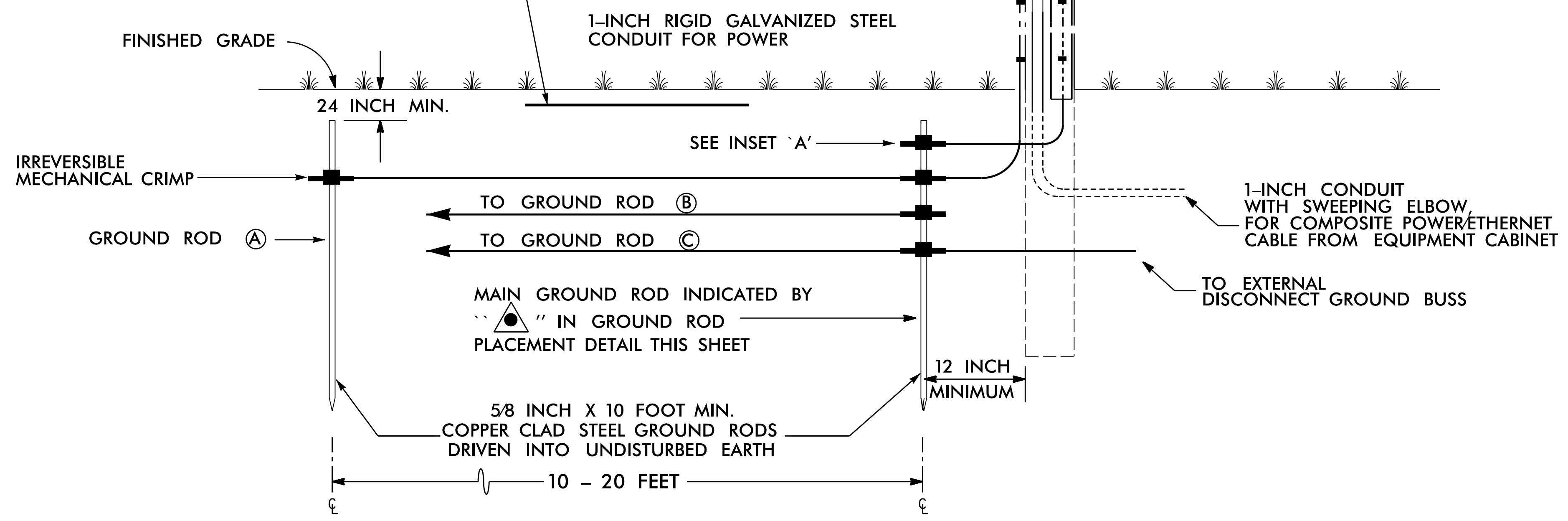


BOND #4 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG. ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG ONLY.

INSTALL 2-INCH PVC U-GUARD OVER COPPER CONDUCTOR FROM GROUND LEVEL TO 10 FEET (MINIMUM) ABOVE THE GROUND.

1-INCH RIGID GALVANIZED STEEL RISER

INSTALL MARKER TAPE 12 INCHES BELOW GRADE AND ABOVE ALL GROUNDING CONDUCTORS.



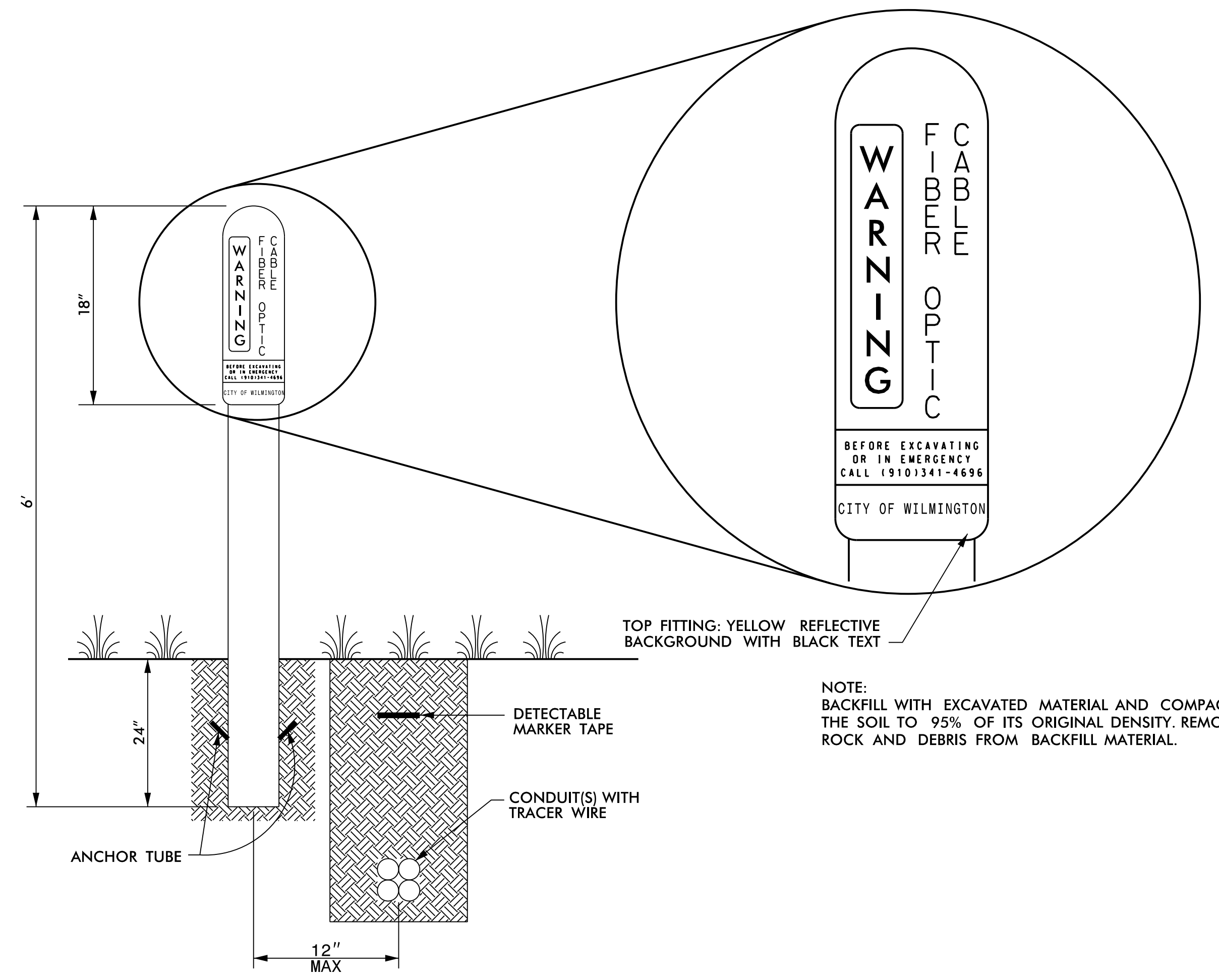
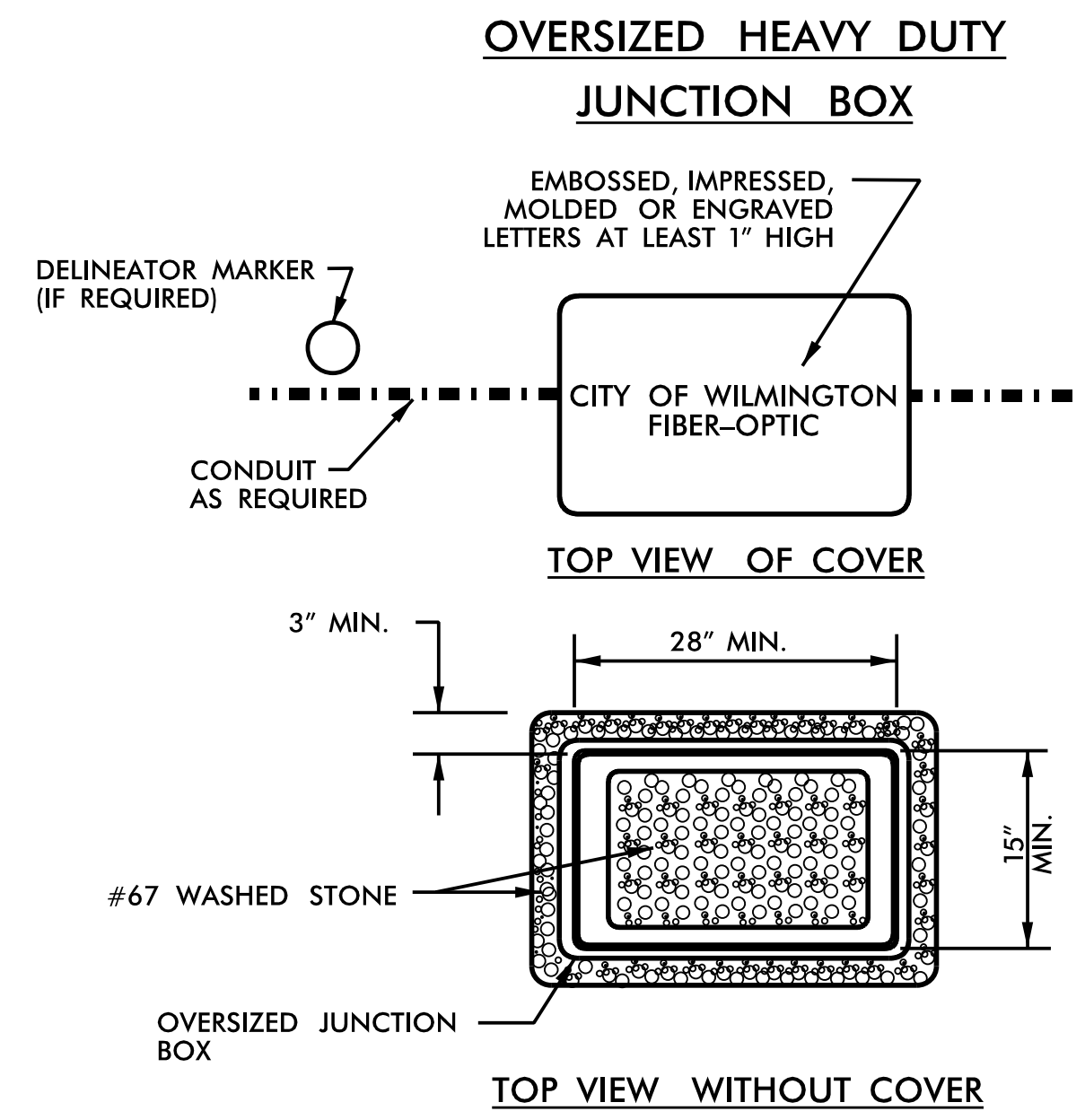
NOTES

- BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
- ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
- THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
- INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
- REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

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| | | | |
|---------------|---|--|---|
| | US 17 (MARKET ST) CCTV CAMERA ON WOOD POLE | | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 REVIEWED BY: T.R. Terrell | |
| SCALE NONE | REVISIONS | INIT. DATE | SIGNATURE DATE CADD File name: U4902D_SCP_33.dgn |



PVC POST-MOUNTED DELINEATOR MARKER

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|---|--|---------------------------|--|
| | US 17 (MARKET ST) TYPICAL DETAILS | | |
| | Division 03 New Hanover Co. Wilmington | PLAN DATE: February 2018 | |
| 250 N. Greenfield Place, Garner, NC 27529 | PREPARED BY: N.K. Vlanich | REVIEWED BY: N.R. Simmons | SEAL NORTH CAROLINA PROFESSIONAL ENGINEER NATASHA R. SIMMONS |
| SCALE NONE | REVISIONS | INIT. DATE | DocuSigned by: Natasha R. Simmons 8/1/2018 SIGNATURE DATE CADD File name: U4902D SCP 34.dgn |