

TIP PROJECT: R-2554D

WBS: 34461.1.FS9

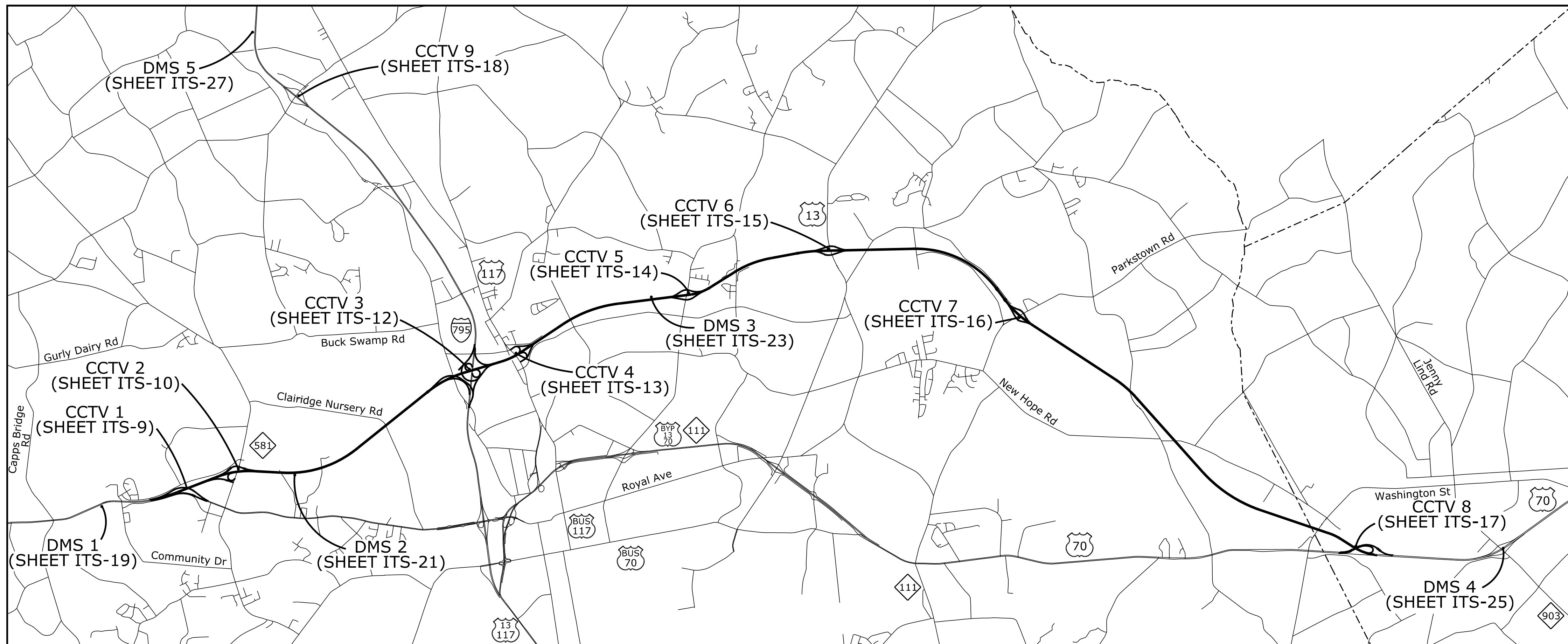
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAYNE /LENOIR COUNTY

LOCATION: US 70 (GOLDSBORO BYPASS) FROM WEST OF NC 581 TO
EAST OF SR 1323 (PROMISE LAND ROAD)

TYPE OF WORK: COMMUNICATIONS CABLE AND CONDUIT ROUTING, DYNAMIC
MESSAGE SIGNS AND CCTV CAMERA INSTALLATION

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | R-2554D | ITS-1 | 40 |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 34461.3.FS9 | NHPP.0005(784) | CONST. | |
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FINAL PLANS

2012 STANDARD SPECIFICATIONS

PROJECT LENGTH
PROJECT LENGTH = N/A

LETTING DATE:
JULY 2015

INDEX OF SHEETS

ITS-1-----TITLE SHEET
ITS-2-----CONSTRUCTION NOTES AND
LEGEND
ITS-3 THRU ITS-8-----TYPICAL DETAILS
ITS-9 THRU ITS-28-----CCTV, DMS AND CABLE
ROUTING PLANS
ITS-29 THRU ITS-40-----SPlice DETAILS

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY
STANDARD DRAWINGS" ROADWAY DESIGN UNIT - N.C. DEPARTMENT
OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE
APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE |
|----------|-------------------------------|
| 1700.01 | ELECTRICAL SERVICE OPTIONS |
| 1700.02 | ELECTRICAL SERVICE GROUNDING |
| 1715.01 | UNDERGROUND CONDUIT-TRENCHING |
| 1716.01 | JUNCTION BOXES |
| 1720.01 | WOOD POLES |
| 1730.01 | FIBER OPTIC CABLE |
| 1751.01 | CONTROLLER AND CABINETS |
| 1751.02 | CONTROLLER AND CABINETS |

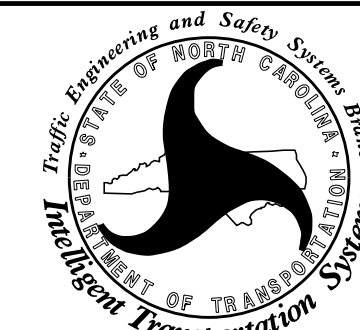
NCDOT CONTACTS:
TRANSPORTATION SAFETY AND MOBILITY
INTELLIGENT TRANSPORTATION SYSTEMS SECTION
THOMAS G. PARKER - ITS PROJECT ENGINEER
ANN R. LORSCHIEDER, P.E., PTOE - ITS PROJECT DESIGN ENGINEER

PLANS PREPARED BY:

Kimley»Horn

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Raleigh, NC 27636
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FAX: (919) 677-2050

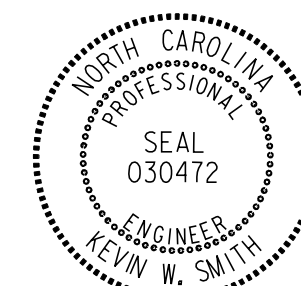
KIMLEY-HORN CONTACTS: T.F. BURCHETT, P.E. - PROJECT MANAGER
KEVIN W. SMITH, P.E. - PROJECT ENGINEER



750 Greenfield Pkwy., Garner, NC 27529

SEAL

SEAL


















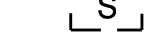
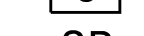








DocuSigned by:
Kevin W. Smith
3/12/2015





- 1 INSTALL 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS
- 2 INSTALL 3-WIRE COPPER FEEDER CONDUCTORS
- 3 INSTALL 4-WIRE COPPER FEEDER CONDUCTORS
- 4 INSTALL SMFO CABLE
- 5 INSTALL MMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH OR PLOW CONDUIT
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 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 STUB-OUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE
(USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE
(USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY
INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY INTERFACE PANEL
IN TRAFFIC SIGNAL CONTROLLER CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS
AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 MODIFY EXISTING SPLICE ENCLOSURE OR INTERCONNECT CENTER

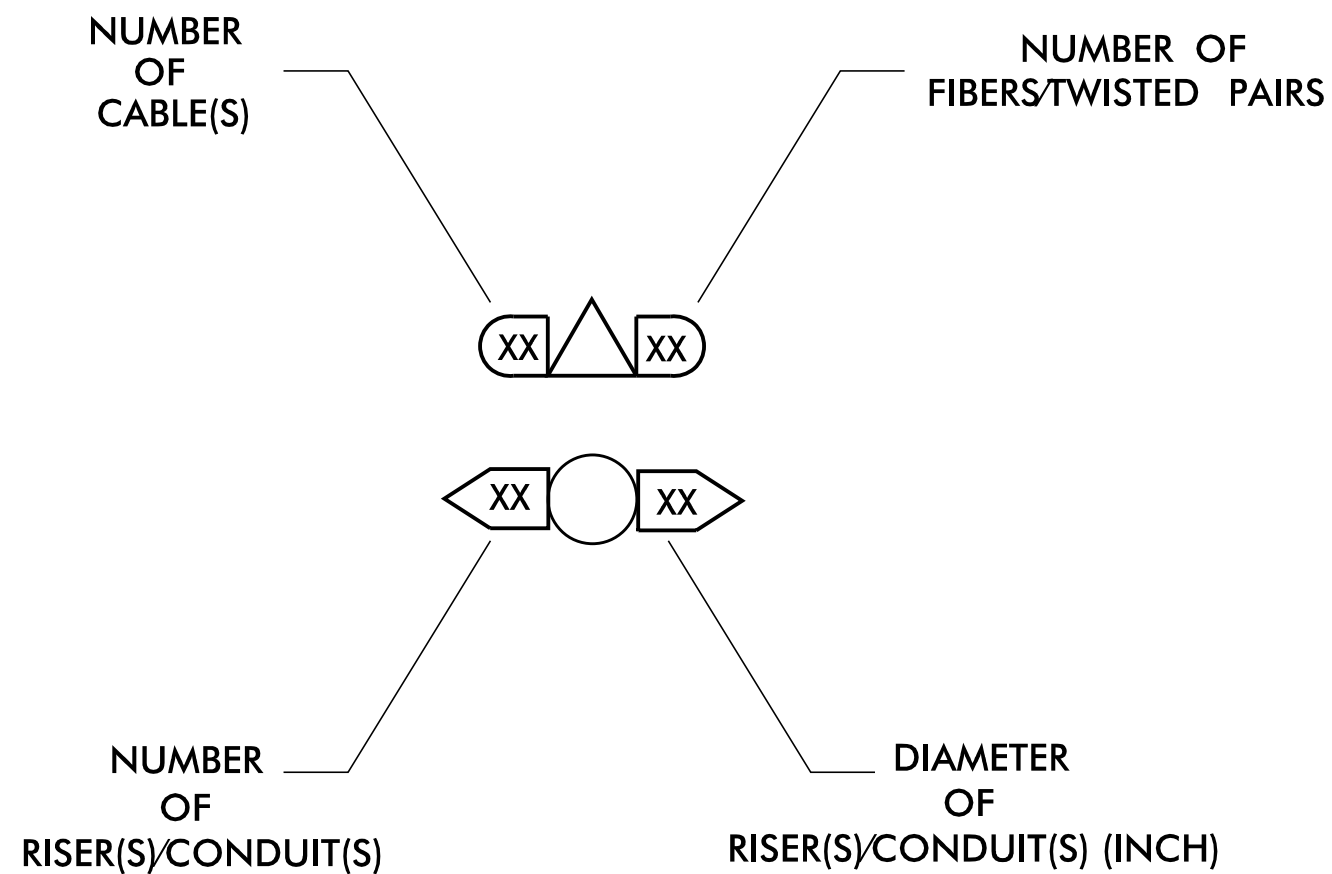
| | |
|----|--|
| 34 | INSTALL CABINET FOUNDATION |
| 35 | REMOVE EXISTING CABINET FOUNDATION |
| 36 | INSTALL CCTV CAMERA ASSEMBLY |
| 37 | INSTALL CCTV CAMERA WOOD POLE |
| 38 | INSTALL CCTV CAMERA METAL POLE AND FOUNDATION |
| 39 | INSTALL JUNCTION BOX |
| 40 | INSTALL OVERSIZED JUNCTION BOX |
| 41 | REMOVE EXISTING JUNCTION BOX |
| 42 | INSTALL WOOD POLE |
| 43 | INSTALL 6"X6" WOOD PEDESTAL |
| 44 | INSTALL AERIAL GUY ASSEMBLY |
| 45 | INSTALL STANDARD GUY ASSEMBLY |
| 46 | INSTALL SIDEWALK GUY ASSEMBLY |
| 47 | INSTALL MESSENGER CABLE |
| 48 | REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE |
| 49 | REMOVE EXISTING MESSENGER CABLE |
| 50 | INSTALL TELEPHONE SERVICE |
| 51 | INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE |
| 52 | INSTALL DELINEATOR MARKER |
| 53 | STORE 20 FEET OF COMMUNICATIONS CABLE |
| 54 | LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE |
| 55 | LASH CABLE(S) TO EXISTING MESSENGER CABLE |
| 56 | LASH CABLE(S) TO NEW MESSENGER CABLE |
| 57 | MODIFY EXISTING ELECTRICAL SERVICE |
| 58 | INSTALL NEW ELECTRICAL SERVICE |
| 59 | INSTALL NEW POLE MOUNTED EQUIPMENT CABINET |
| 60 | INSTALL NEW EQUIPMENT CABINET DISCONNECT |
| 61 | INSTALL DMS ASSEMBLY |
| 62 | INSTALL DMS PEDESTAL AND FOUNDATION |
| 63 | INSTALL SOLAR POWER ASSEMBLY |
| 64 | INSTALL VIDEO OPTICAL TRANSCEIVER |

LEGEND




| | |
|---|---|
|  | NEW FIBER OPTIC COMMUNICATIONS CABLE |
|  | NEW TWISTED PAIR COMMUNICATIONS CABLE |
|  | EXISTING COMMUNICATIONS CABLE |
|  | EXISTING COMMUNICATIONS CABLE TO BE REMOVED |
|  | NEW AERIAL GUY ASSEMBLY |
|  | NEW CONDUIT |
|  | EXISTING CONDUIT |
|  | NEW DIRECTIONAL DRILLED CONDUIT |
|  | NEW BORED AND JACKED CONDUIT |
|  | NEW JUNCTION BOX |
|  | EXISTING JUNCTION BOX |
|  | NEW WOOD POLE |
|  | EXISTING WOOD POLE |
|  | AERIAL SPLICE ENCLOSURE |
|  | NEW METAL POLE |
|  | EXISTING METAL POLE |
|  | NEW CCTV ASSEMBLY |
|  | NEW STANDARD GUY ASSEMBLY |
|  | NEW SIDEWALK GUY ASSEMBLY |
|  | NEW CABLE STORAGE RACKS (SNOW SHOES) |
|  | EXISTING CONTROLLER AND CABINET |
|  | EXISTING SPLICE CABINET |
|  | NEW SPLICE CABINET |
|  | SIGNAL POLE |
|  | SIGNAL INVENTORY NUMBER |

CONSTRUCTION NOTE SYMBOLLOGY KEY

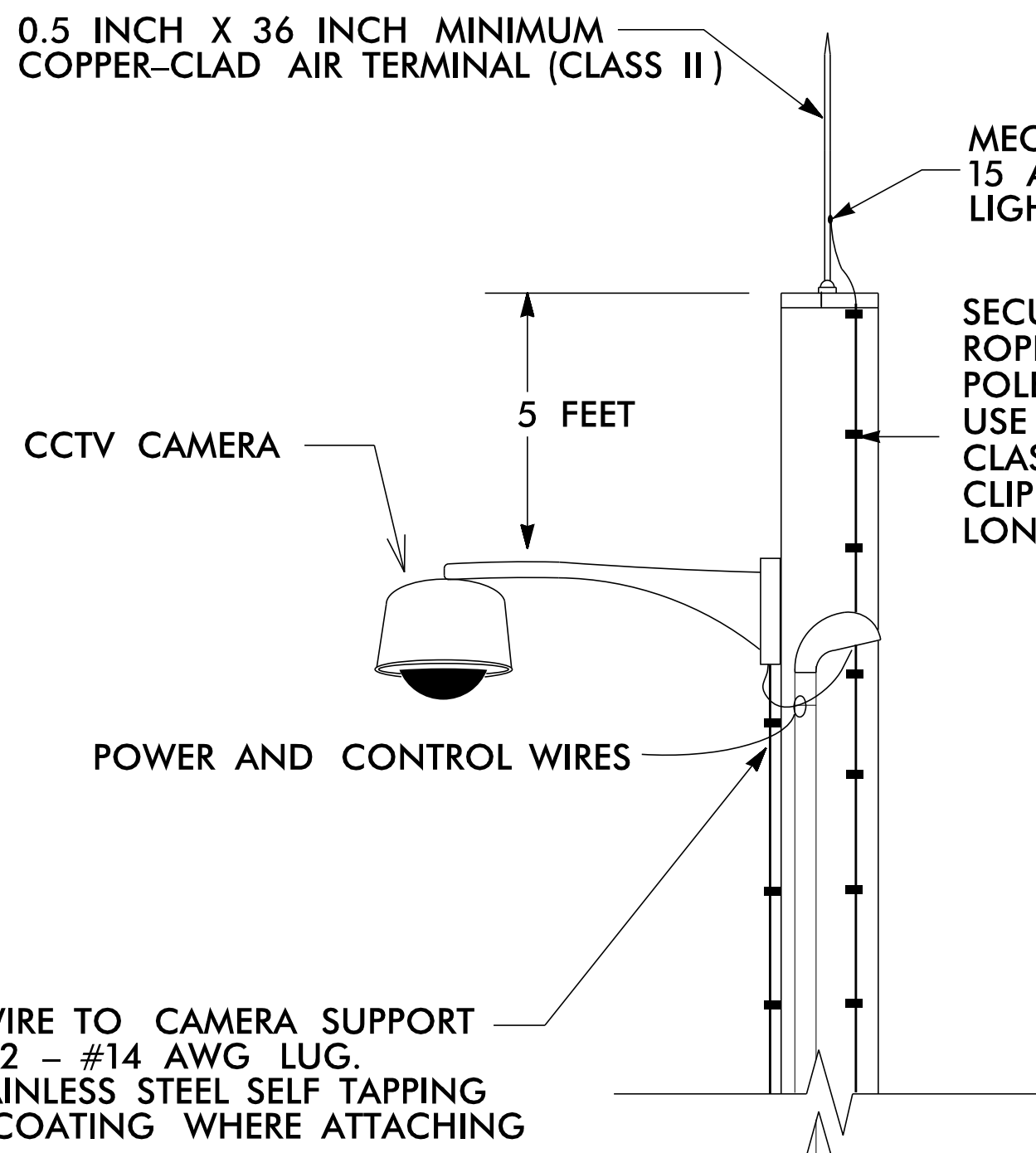
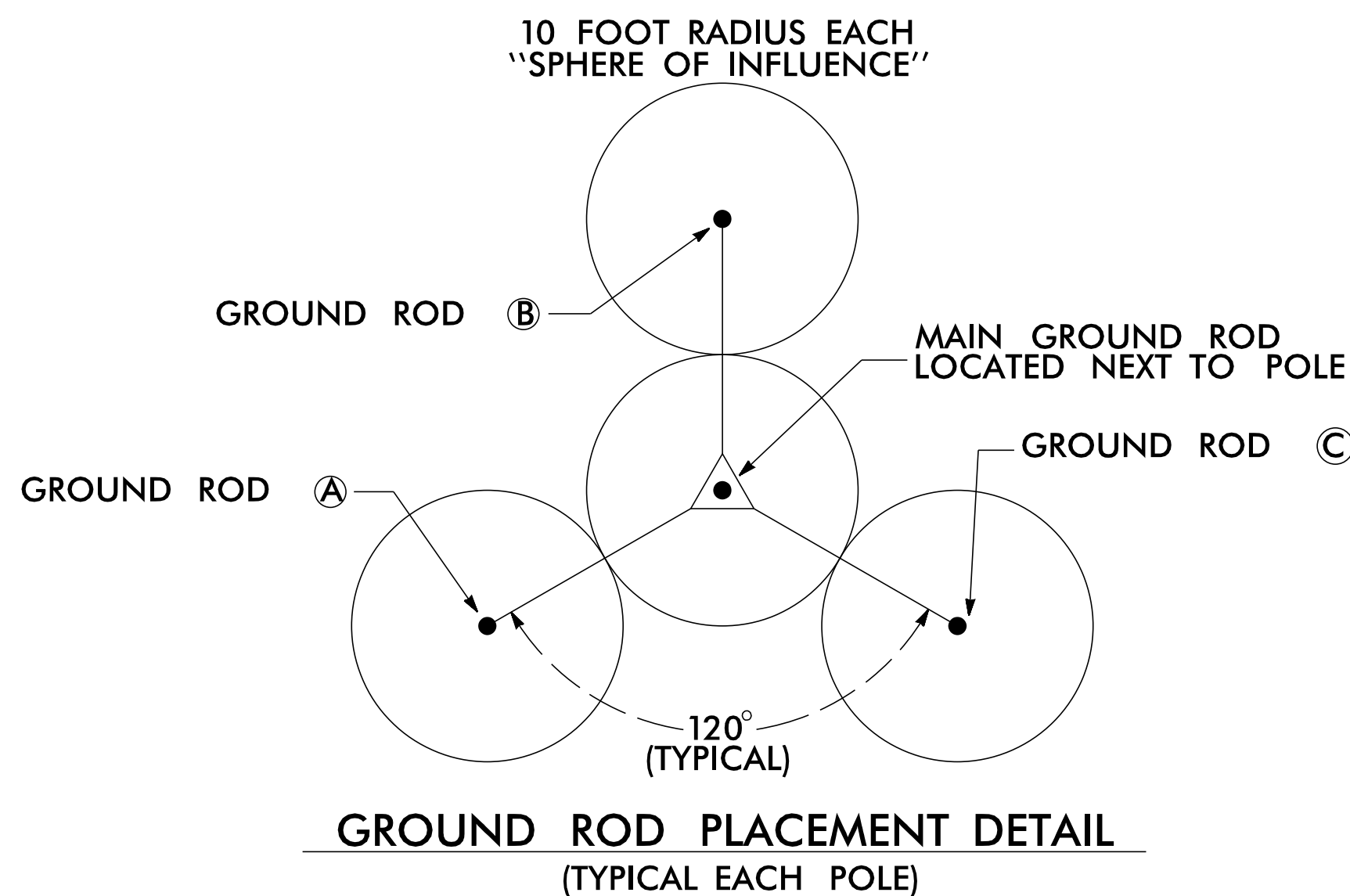
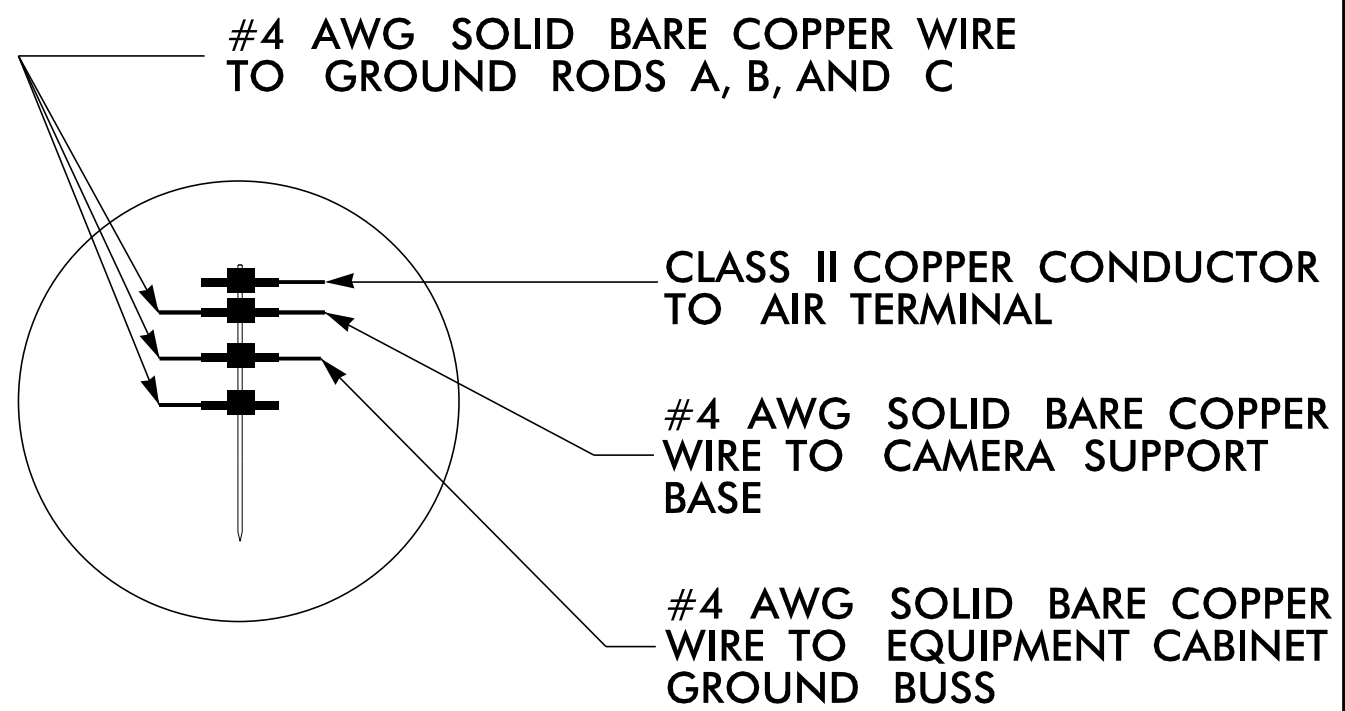
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|---|--|
|  | INDICATES NUMBER OF CABLES, LOOPS, ETC. |
|  | INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC. |
|  | INDICATES NUMBER OF RISER(S) / CONDUIT(S) |
|  | INDICATES DIAMETER OF RISER(S) / CONDUIT(S) (INCH) |



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| <p>Plans Prepared For:</p>  <p>750 N. Greenfield Pkwy., Garner, NC 27529</p> | <p>R-2554D (US 70-GOLDSBORO BYP)</p> <p>CONSTRUCTION NOTES AND LEGEND</p> | <p>SEAL</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------|-------------------------|-----------------------|--------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DIVISION 2&4</td> <td style="width: 50%;">LENOIR & WAYNE COUNTIES</td> </tr> <tr> <td>PLAN DATE: MARCH 2015</td> <td>REVIEWED BY:</td> </tr> <tr> <td>PREPARED BY: J. CROSS</td> <td>REVIEWED BY: K. SMITH</td> </tr> </table> | | | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SCALE</p> <p>0 </p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | REVISONS | INIT. | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>DocuSigned by: <u>Kevin Smith</u> 3/12/2015</p> <p>_____ DATE</p> <p>CADD Filename: _____</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INSET 'A'



MECHANICALLY BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE LAY BARE COPPER LIGHTNING CONDUCTOR TO THE AIR TERMINAL.

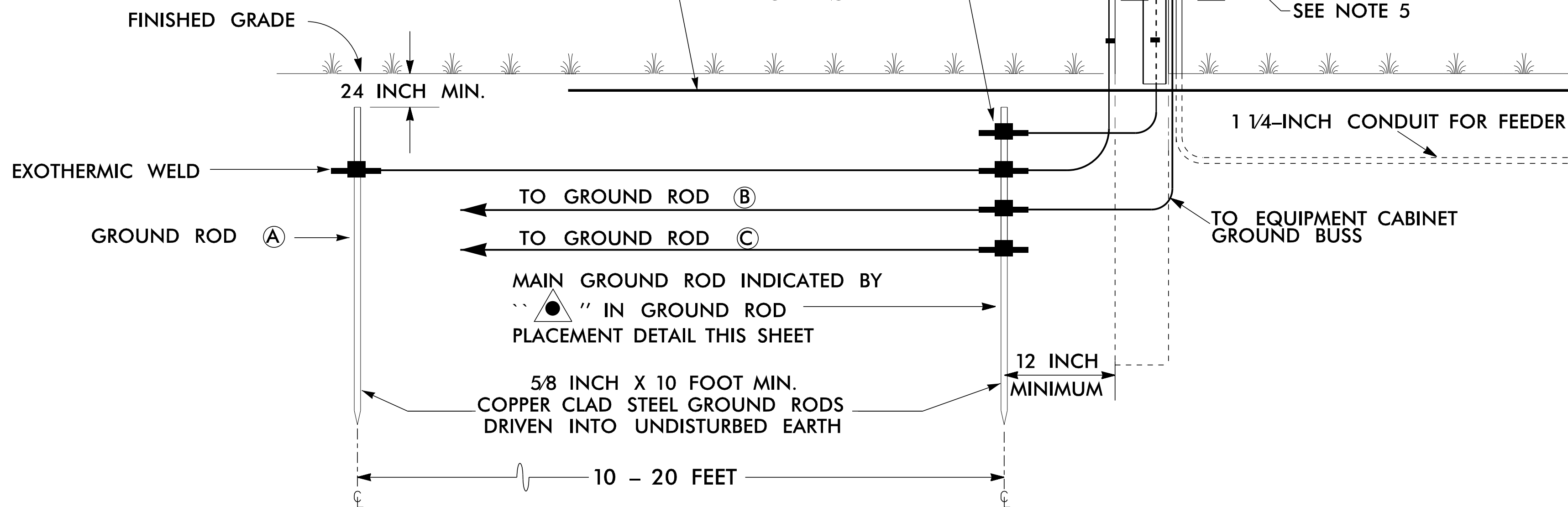
SECURE CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM), ROPE-LAY BARE COPPER LIGHTNING CONDUCTOR TO THE POLE ON 24 INCH CENTERS. USE COPPER CABLE CLIPS DESIGNED FOR USE WITH THE CLASS II COPPER CONDUCTOR. SECURE EACH COPPER CABLE CLIP TO THE POLE USING A 0.25 INCH DIAMETER X 1.5 INCH LONG HEX HEAD, GALVANIZED SCREW.

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.

2-INCH RIGID GALVANIZED STEEL RISER FOR POWER AND CONTROL WIRES

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

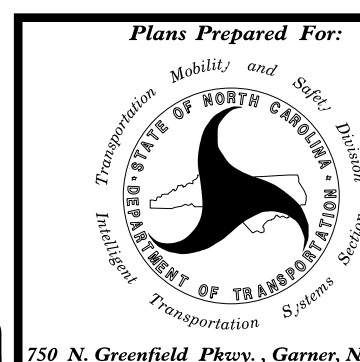


NOTES

1. BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. 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.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.
6. INSTALL NEW 15-AMP CIRCUIT BREAKER IN THE EXISTING ELECTRICAL SERVICE FOR NEW CCTV CABINET. IF NO SPACE IS AVAILABLE FOR ADDITIONAL CIRCUIT BREAKER, REPLACE WITH NEW DISCONNECT AS SHOWN IN THE PLANS.

Kimley»Horn

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R-2554D (US 70-GOLDSBORO BYP)
CCTV CAMERA INSTALLATION
FOR WOOD POLES AND
EXISTING ELECTRICAL SERVICE

DIVISION 2&4 LENOIR & WAYNE COUNTIES

PLAN DATE: MARCH 2015 REVIEWED BY:

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS INIT. DATE

0 SCALE

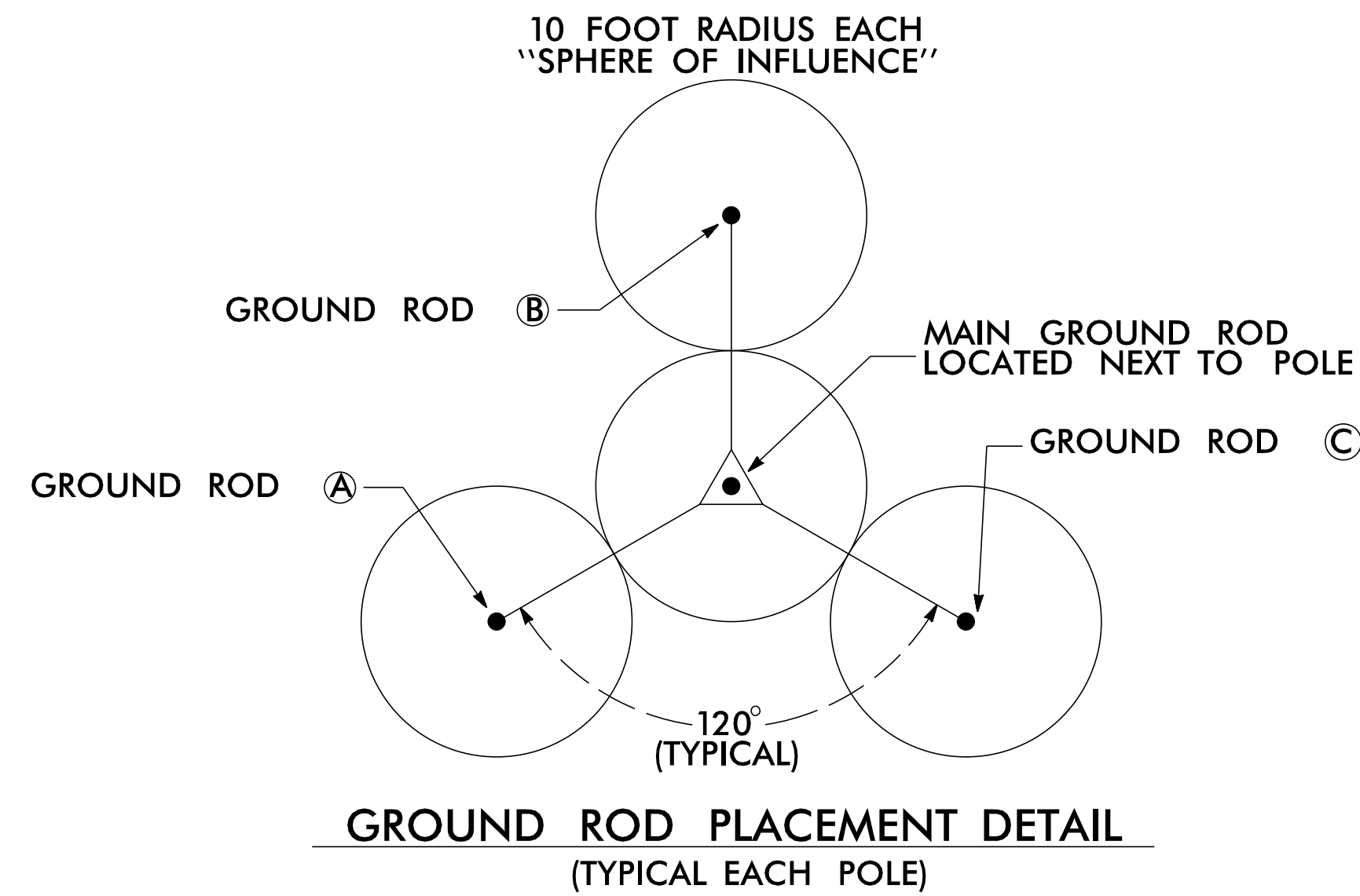
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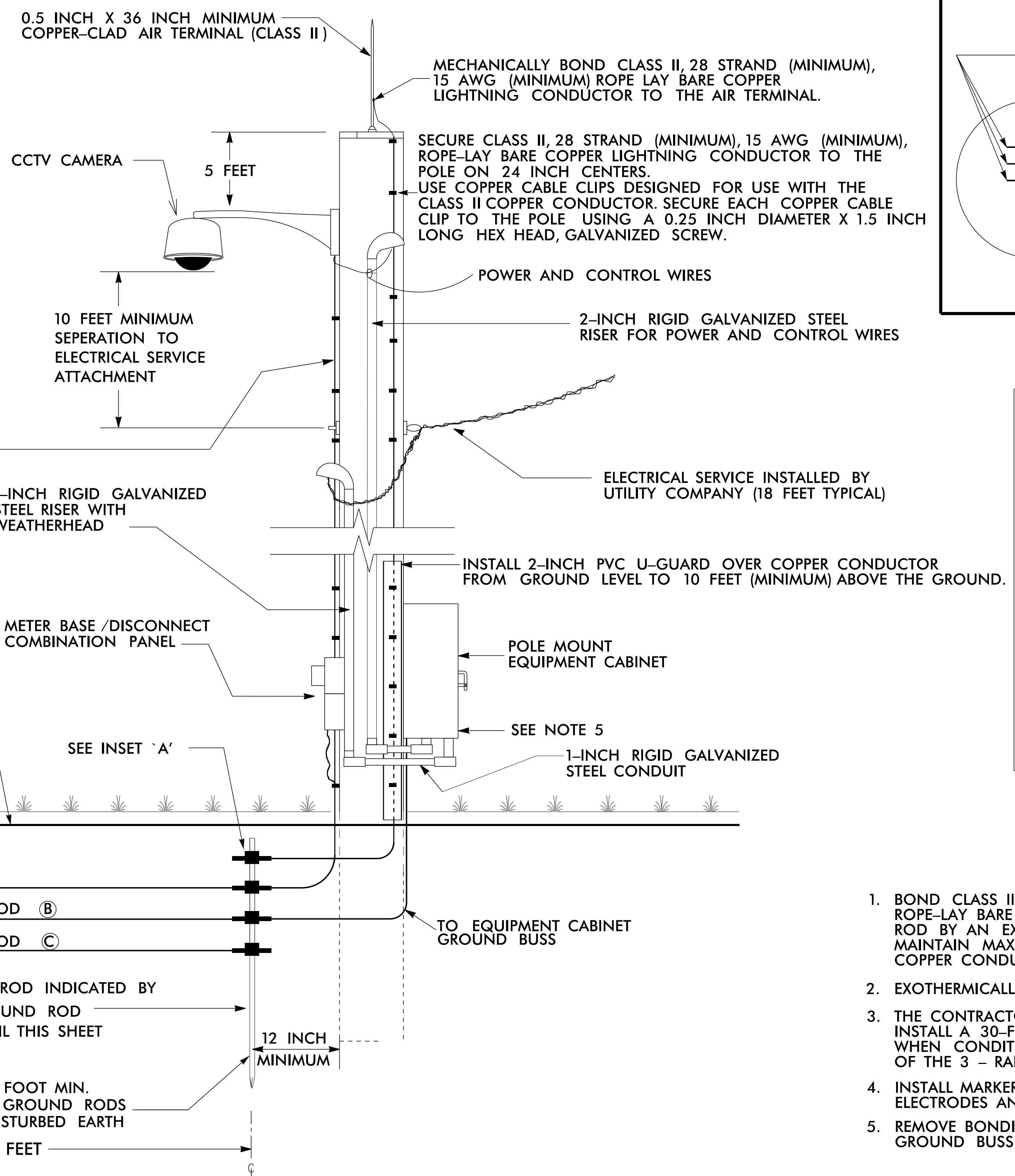
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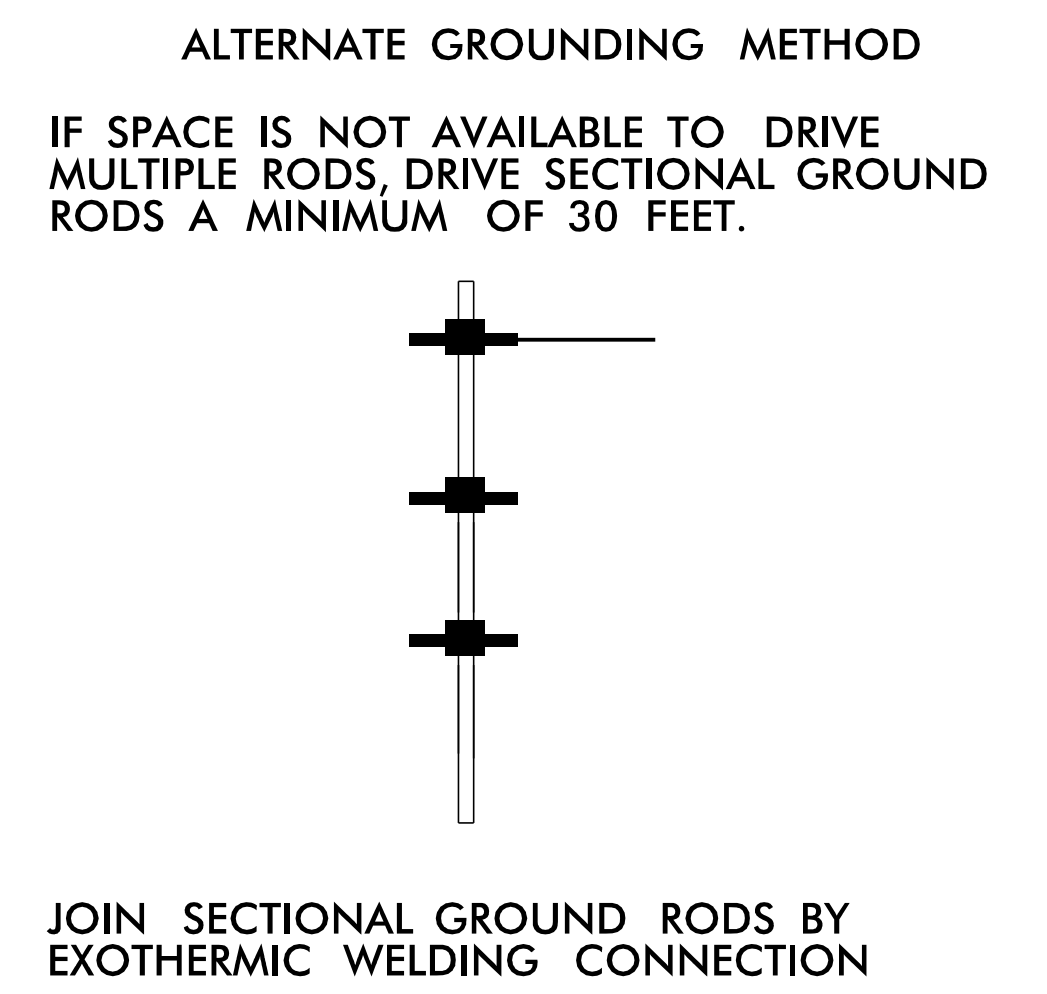
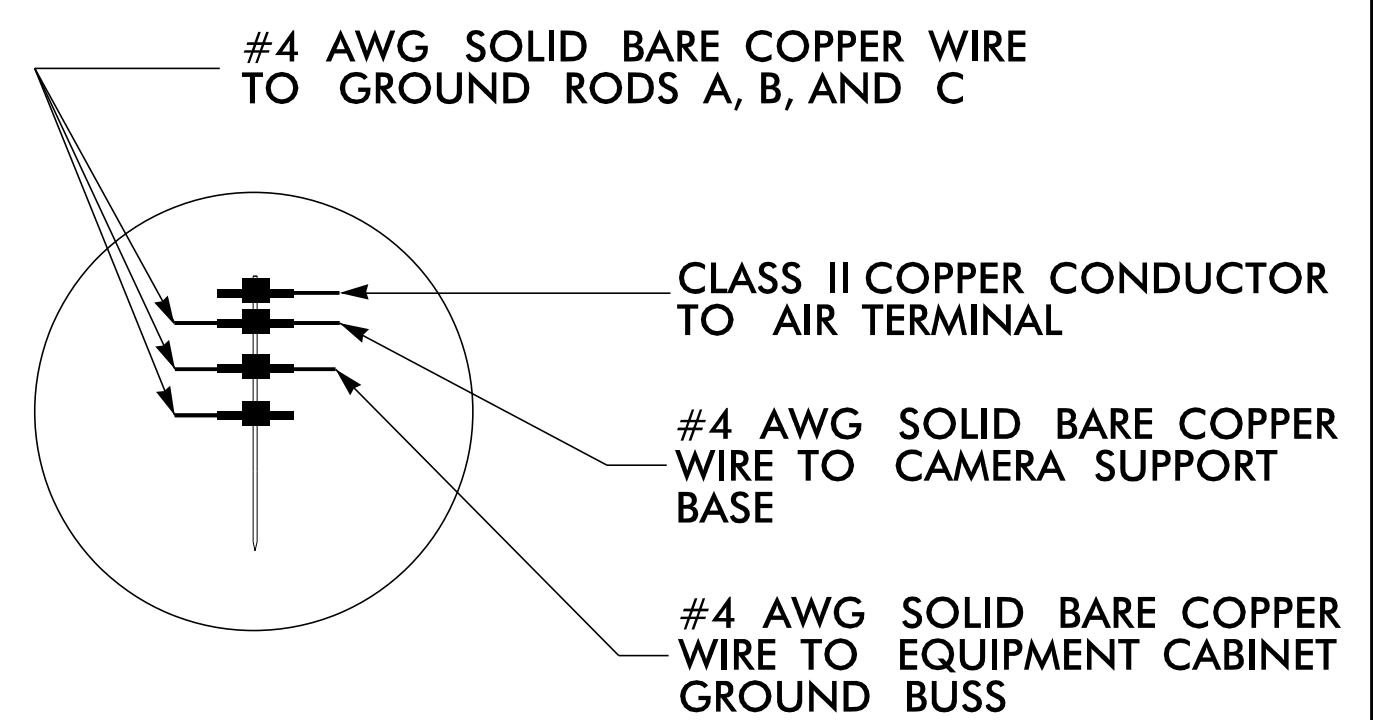
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BOND #4 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT
BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG.
ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING
SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING
LUG ONLY.



INSET 'A'

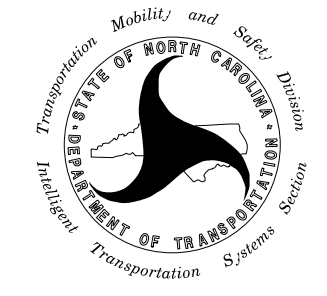


NOTES

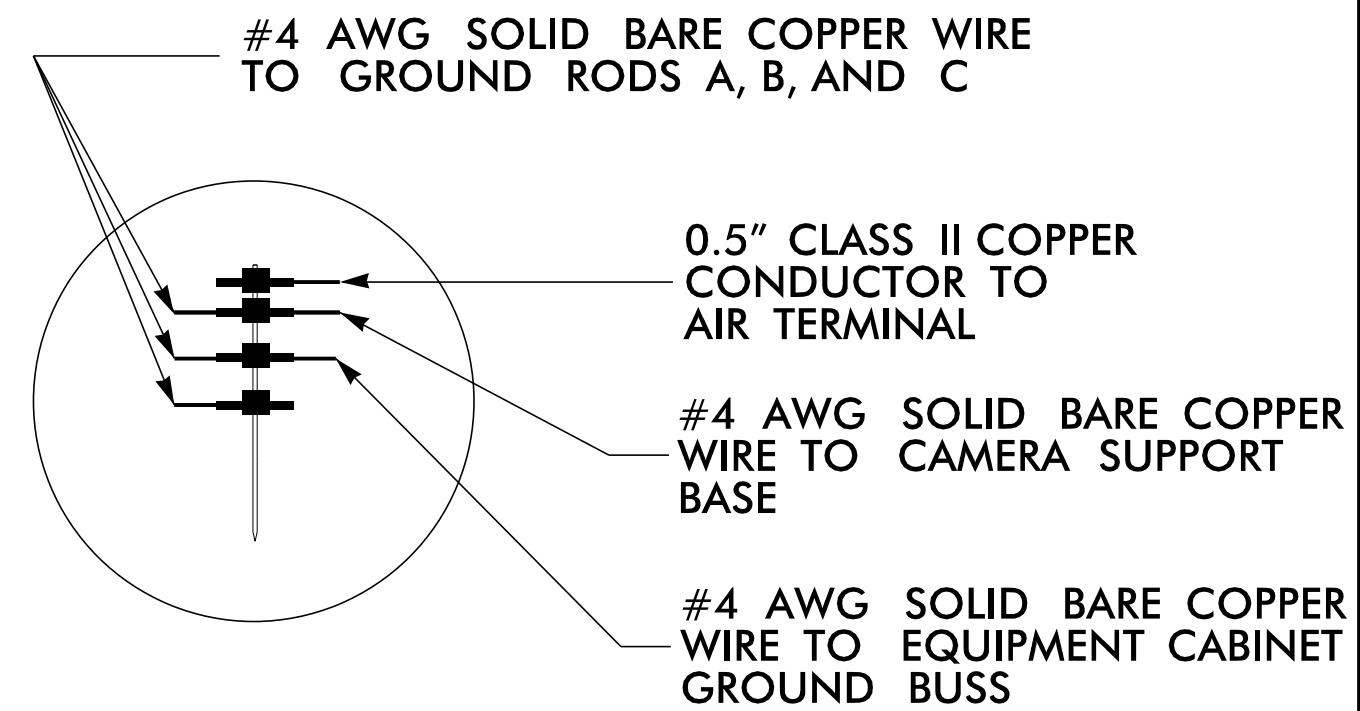
1. BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. THE CONTRACTOR MAY, UPON APPROVAL 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.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

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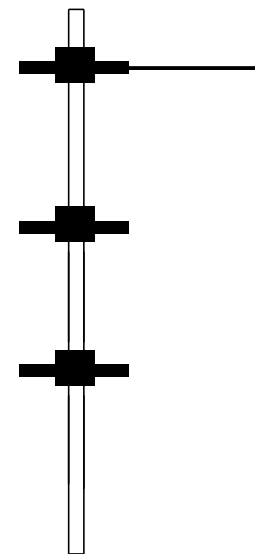
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|  Plans Prepared For: R-2554D (US 70-GOLDSBORO BYP) CCTV CAMERA INSTALLATION FOR WOOD POLES AERIAL ELECTRICAL SERVICE | DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| SCALE 0 | REVISIONS | INIT. | DATE | DocuSign by: Kevin W. Smith 3/12/2015 |
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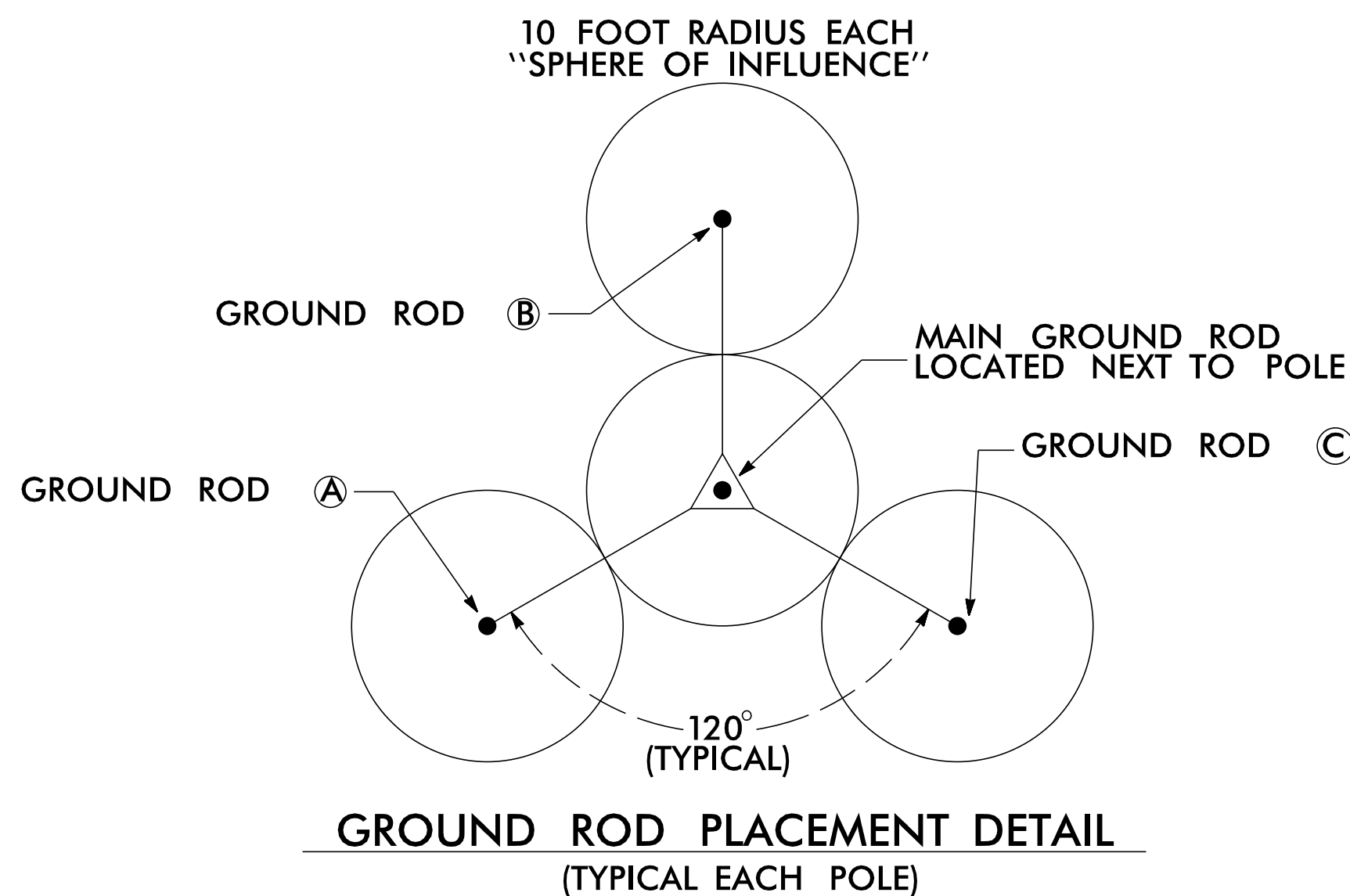


ALTERNATE GROUNDING METHOD

IF SPACE IS NOT AVAILABLE TO DRIVE MULTIPLE RODS, DRIVE SECTIONAL GROUND RODS A MINIMUM OF 30 FEET.



JOIN SECTIONAL GROUND RODS BY EXOTHERMIC WELDING CONNECTION



GROUND ROD PLACEMENT DETAIL
(TYPICAL EACH POLE)

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.

2-INCH RIGID GALVANIZED STEEL RISER FOR POWER AND CONTROL WIRES

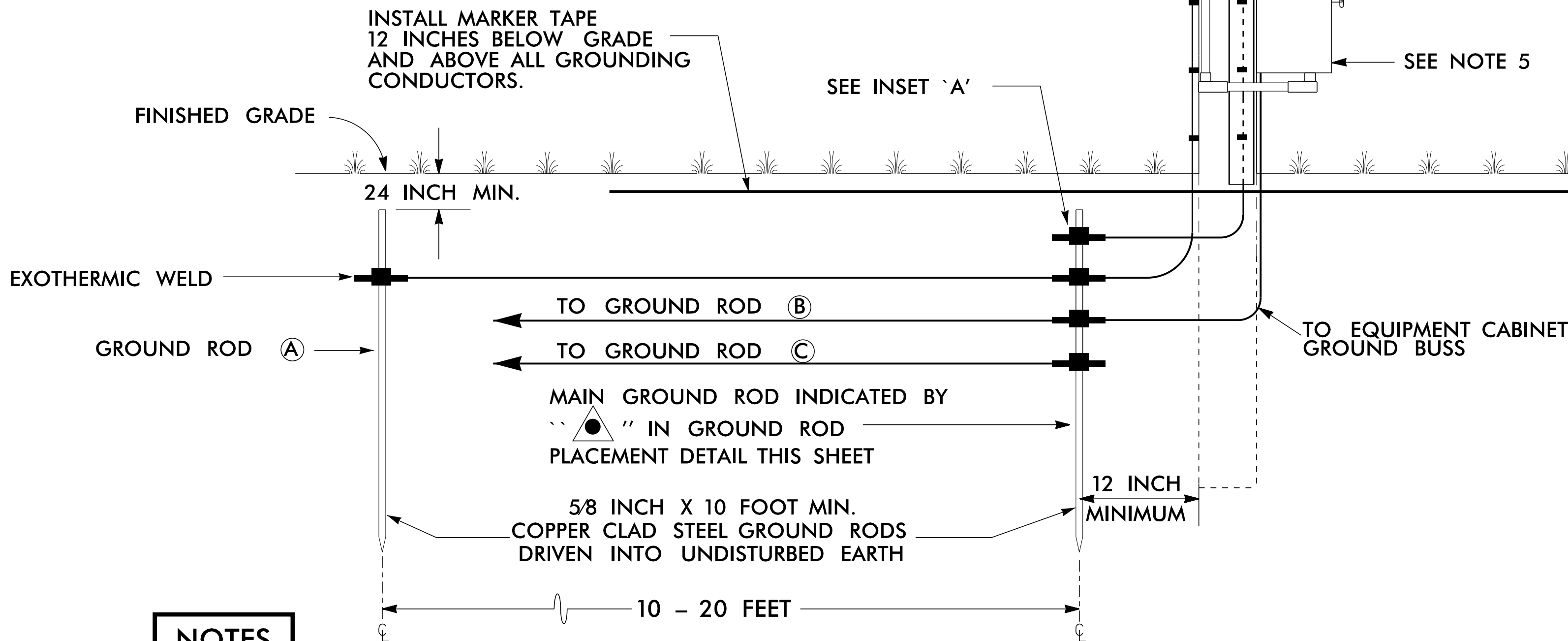
MECHANICALLY BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE LAY BARE COPPER LIGHTNING CONDUCTOR TO THE AIR TERMINAL.

SECURE CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM), ROPE-LAY BARE COPPER LIGHTNING CONDUCTOR TO THE POLE ON 24 INCH CENTERS. USE COPPER CABLE CLIPS DESIGNED FOR USE WITH THE CLASS II COPPER CONDUCTOR. SECURE EACH COPPER CABLE CLIP TO THE POLE USING A 0.25 INCH DIAMETER X 1.5 INCH LONG HEX HEAD, GALVANIZED SCREW.

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

POLE MOUNT CCTV EQUIPMENT CABINET

SEE NOTE 5



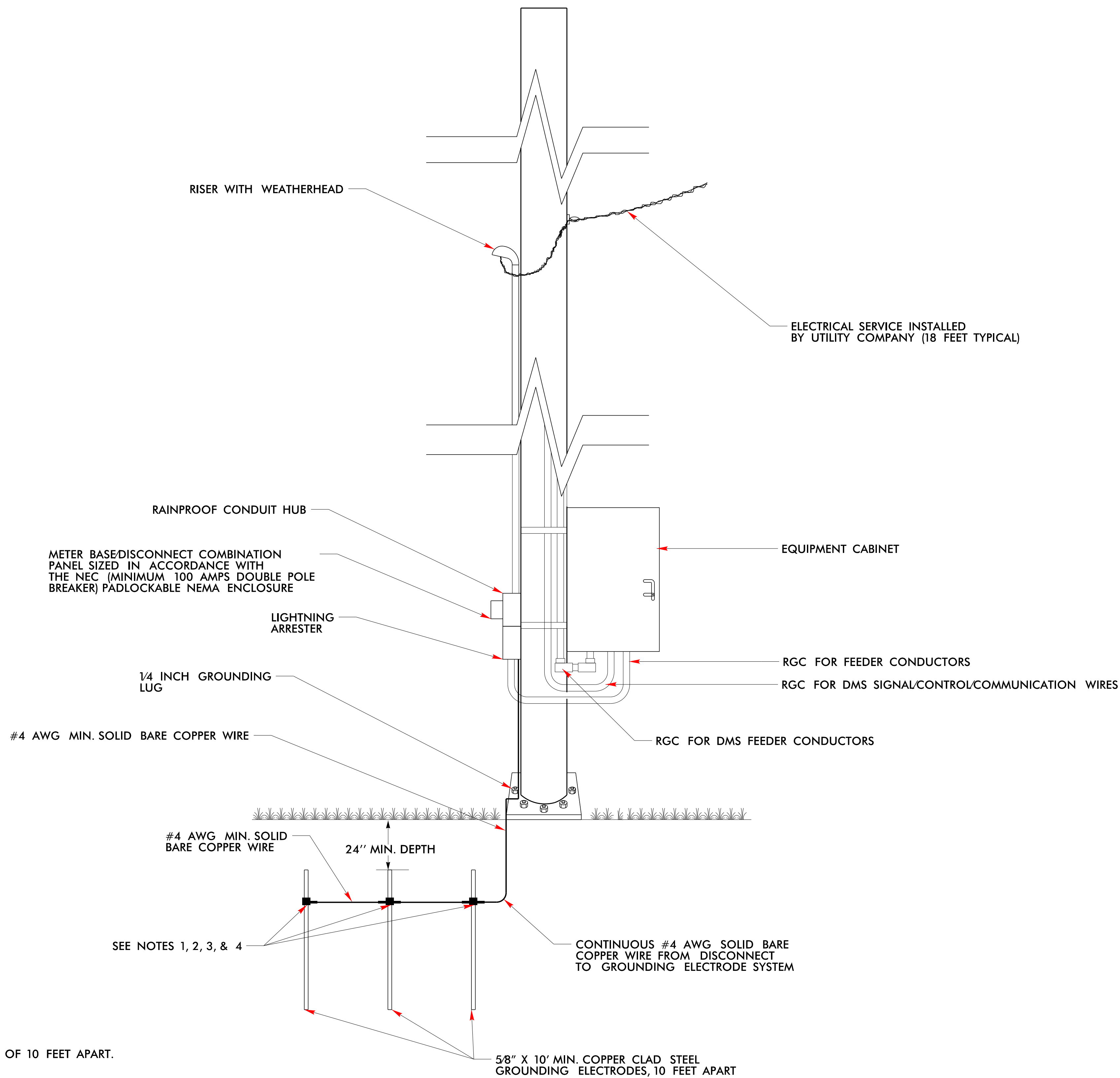
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1. BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. 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.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

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Tel: (919) 677-2000
Fax: (919) 677-2050

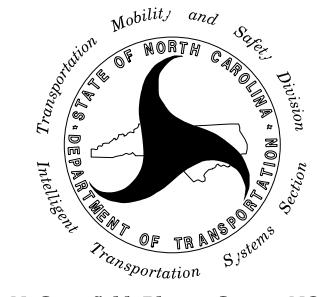
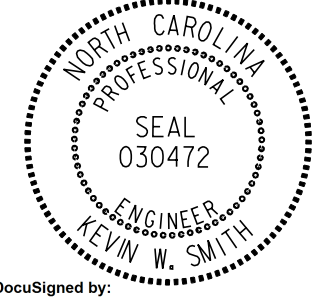
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|-----------------------|--|-------------------------|------|--|
| | R-2554D (US 70-GOLDSBORO BYP) | | SEAL | |
| | CCTV CAMERA INSTALLATION FOR WOOD POLES WITH SOLAR POWER | | | |
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | DocuSigned by Kevin W. Smith 3/12/2015 |
| PLAN DATE: MARCH 2015 | | REVIEWED BY: | | |
| PREPARED BY: J. CROSS | | REVIEWED BY: K. SMITH | | DATE |
| REVISIONS | | INIT. | | |
| 0 | | SCALE | | CADD Filename: |
| 0 | | SCALE | | |



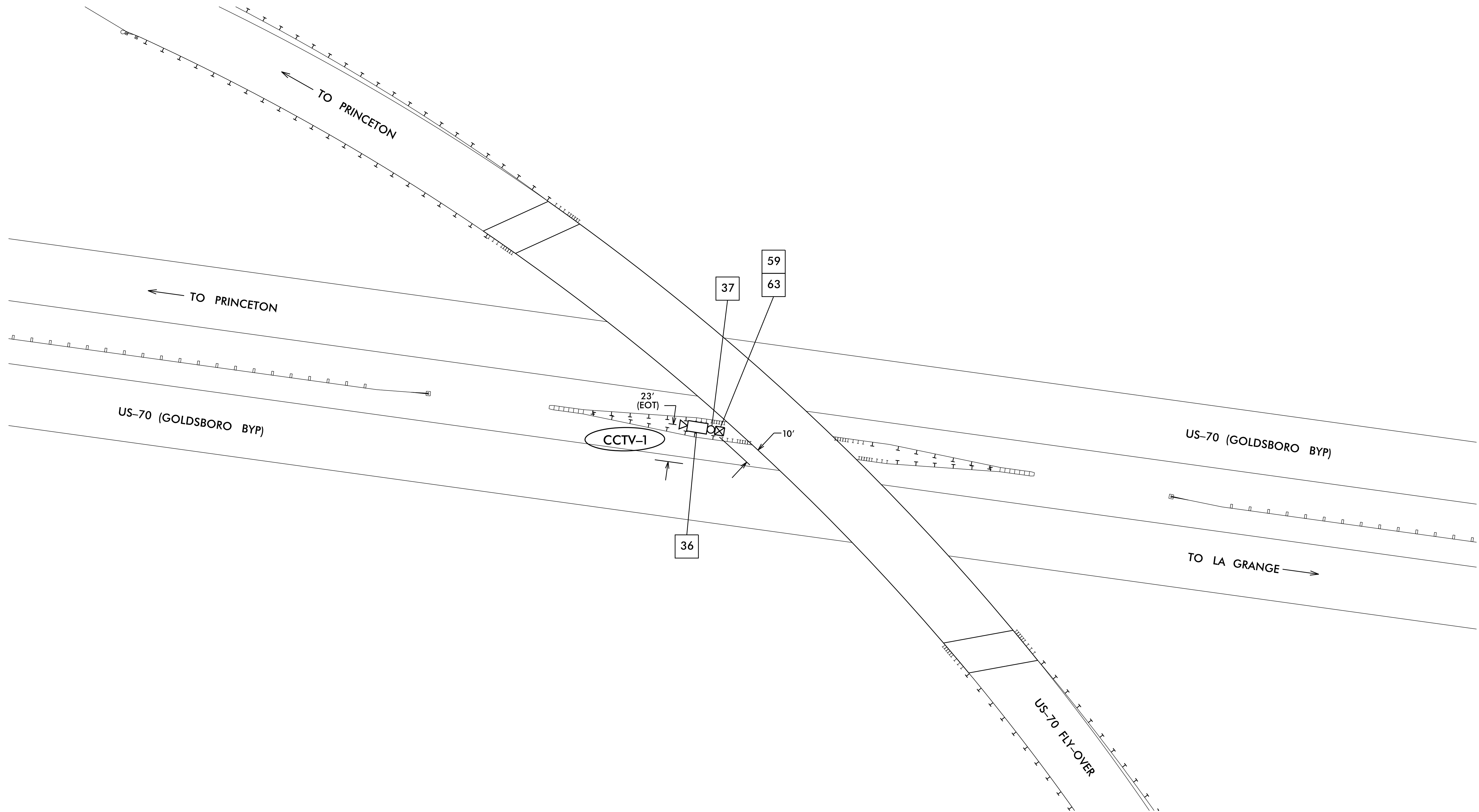
NOTES

1. INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

Kimley»Horn
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Raleigh, NC 27636
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Fax: (919) 677-2050

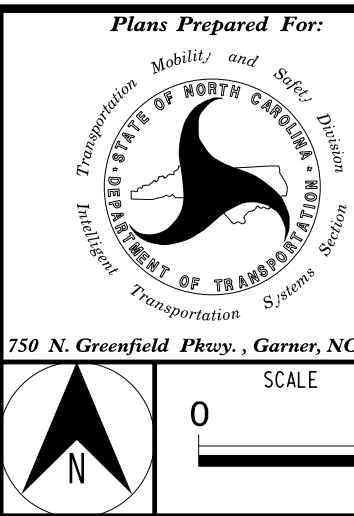
| | | | | |
|--|--------------------------------------|------------------------|---|--|
|  750 N. Greenfield Place, Garner, NC 27529 | R-2554D (US 70-GOLDSBORO BYP) | | SEAL | |
| | DYNAMIC MESSAGE SIGN | |  | |
| | ELECTRICAL SERVICE AND | | | |
| | GROUNDING TYPICAL DETAIL | | | |
| | DIVISION 2&4 LENOIR & WAYNE COUNTIES | | | |
| PLAN DATE: MARCH 2015 | REVIEWED BY: | DocuSign by: 3/12/2015 | | |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | K. Smith | | |
| REVISIONS | INIT. | DATE | CADD Filename: | |
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| | | | | |

CCTV-1 GPS COORDINATES
35.435301, -78.069754



- NOTES:
1. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
 2. MOUNT CCTV CAMERA 45' ABOVE GRADE.
 3. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
 4. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-6 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.

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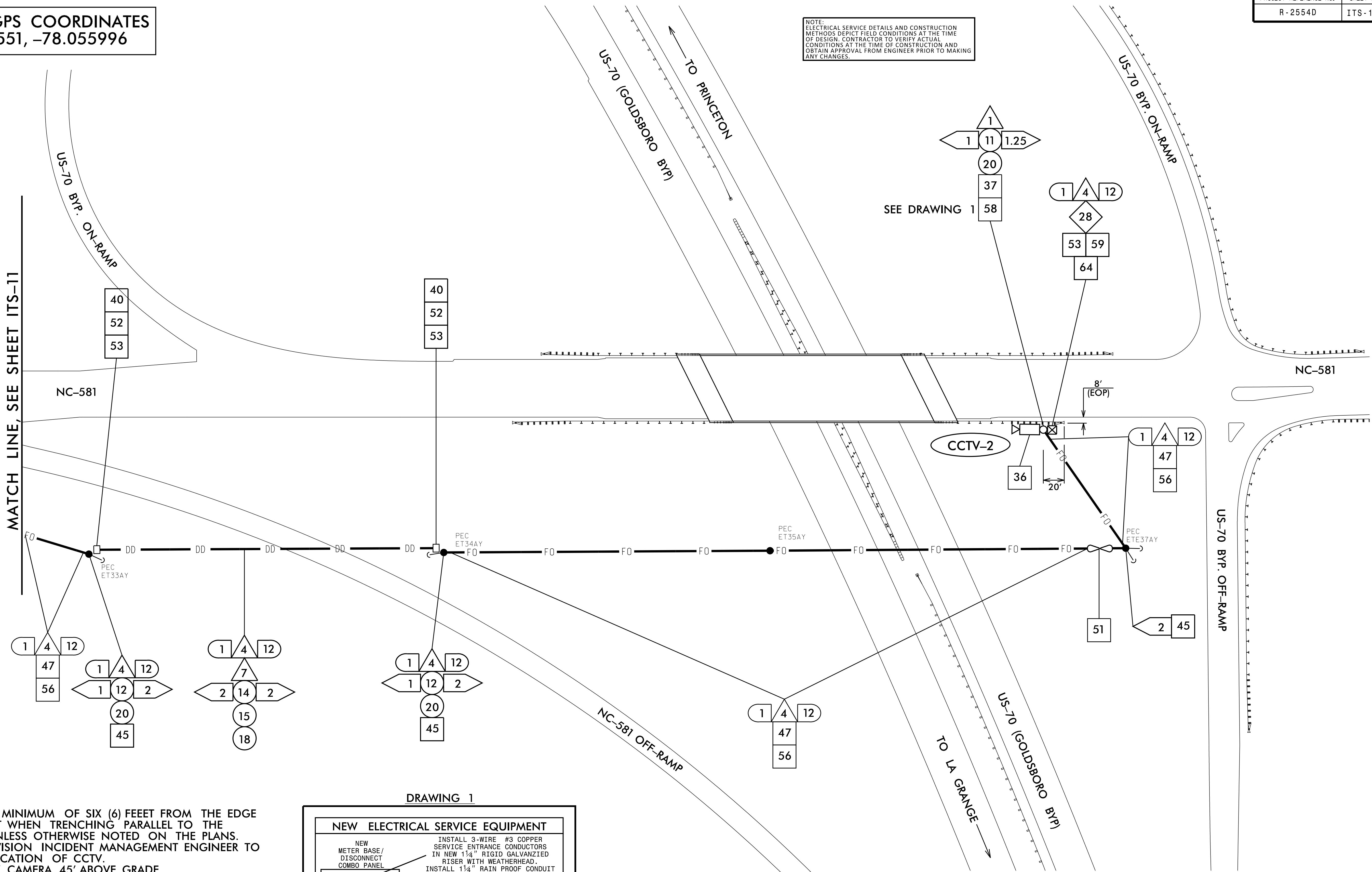
R-2554D (US 70-GOLDSBORO BYP)
CCTV-1

| | | | |
|--------------|------------|-------------------------|----------|
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| PLAN DATE: | MARCH 2015 | REVIEWED BY: | |
| PREPARED BY: | J. CROSS | REVIEWED BY: | K. SMITH |
| REVISIONS | | INIT. | DATE |
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SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
KEVIN W. SMITH
SEAL
030472
DocuSigned by:
Kevin W. Smith
3/12/2015
DATE
CADD Filename:

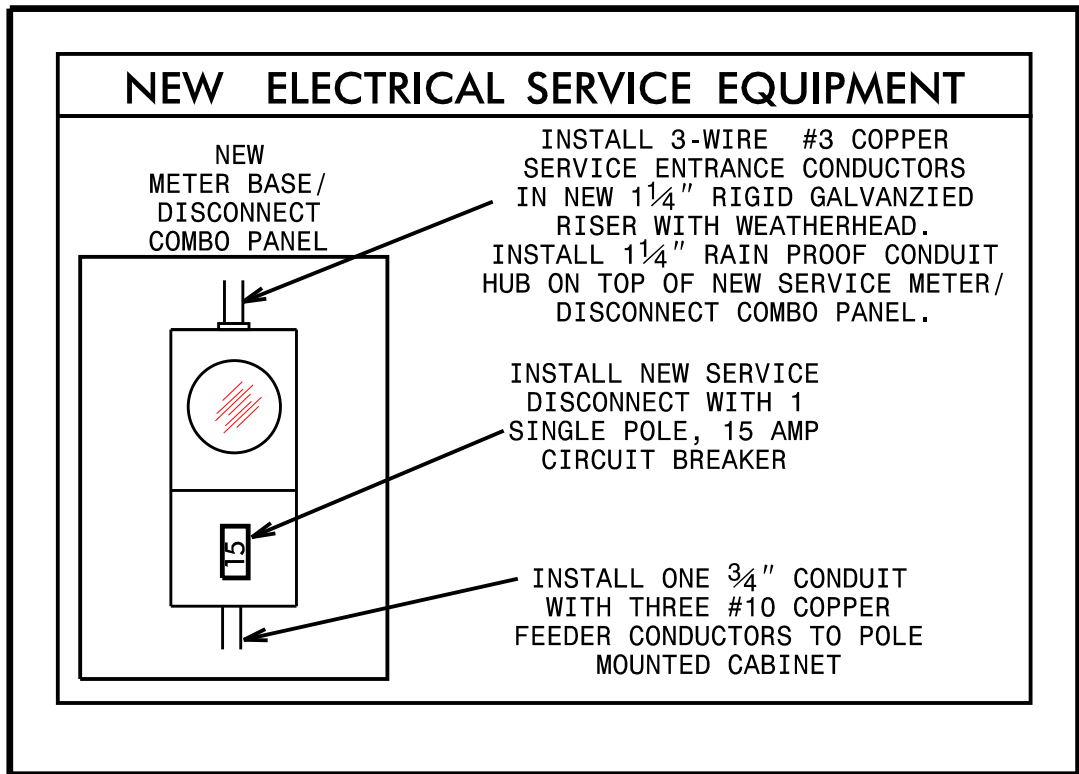
CCTV-2 GPS COORDINATES
35.433551, -78.055996

NOTE:
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION
METHODS DEPICT FIELD CONDITIONS AT THE TIME
OF DESIGN. CONTRACTOR TO VERIFY ACTUAL
CONDITIONS AT THE TIME OF CONSTRUCTION AND
OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING
ANY CHANGES.



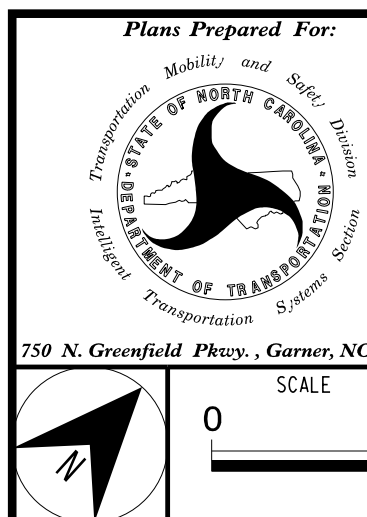
- NOTES:
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
 2. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
 3. MOUNT CCTV CAMERA 45' ABOVE GRADE.
 4. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
 5. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-5 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
 6. CONTACT JON MARSTON WITH DUKE ENERGY AT 919-583-2096 TO OBTAIN POWER TO ELECTRICAL SERVICE.
 7. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN SAME BORE AND TRENCH. USE SEPERATE CONDUITS AND SEPERATE JUNCTION BOXES FOR POWER AND COMMUNICATIONS.

DRAWING 1



Kimley»Horn

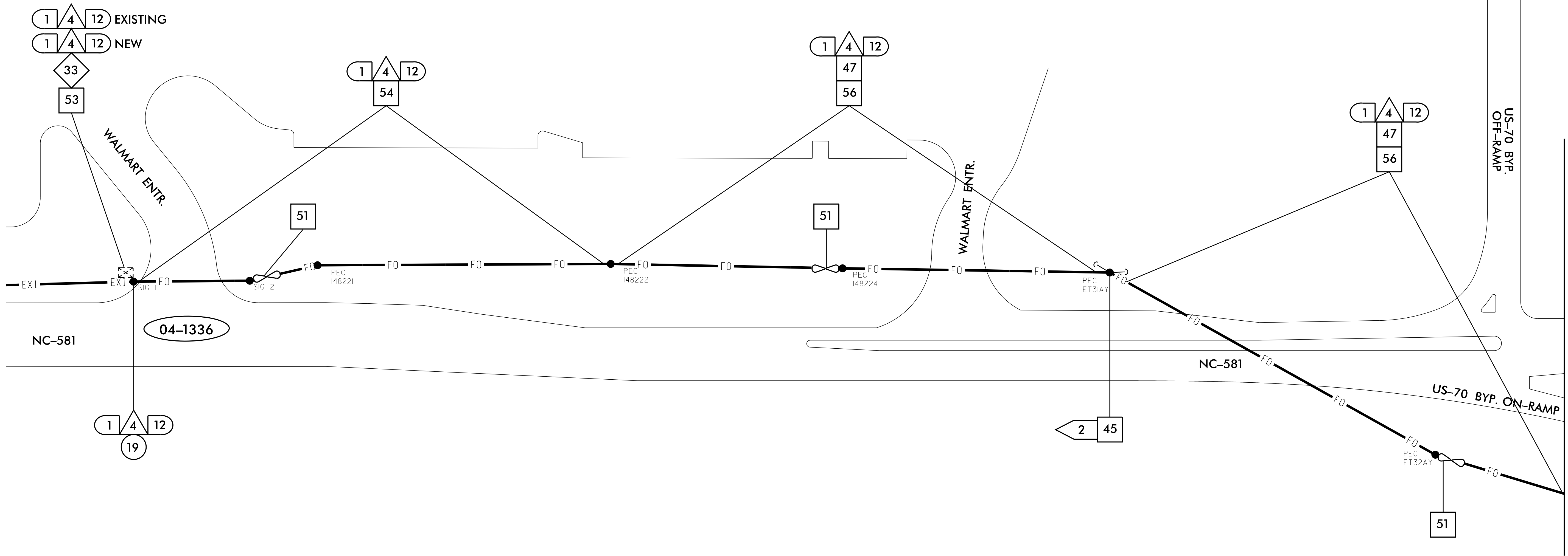
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Raleigh, NC 27636
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Fax: (919) 677-2050



R-2554D (US 70-GOLDSBORO BYP)
CCTV-2

| | |
|-----------------------|-------------------------|
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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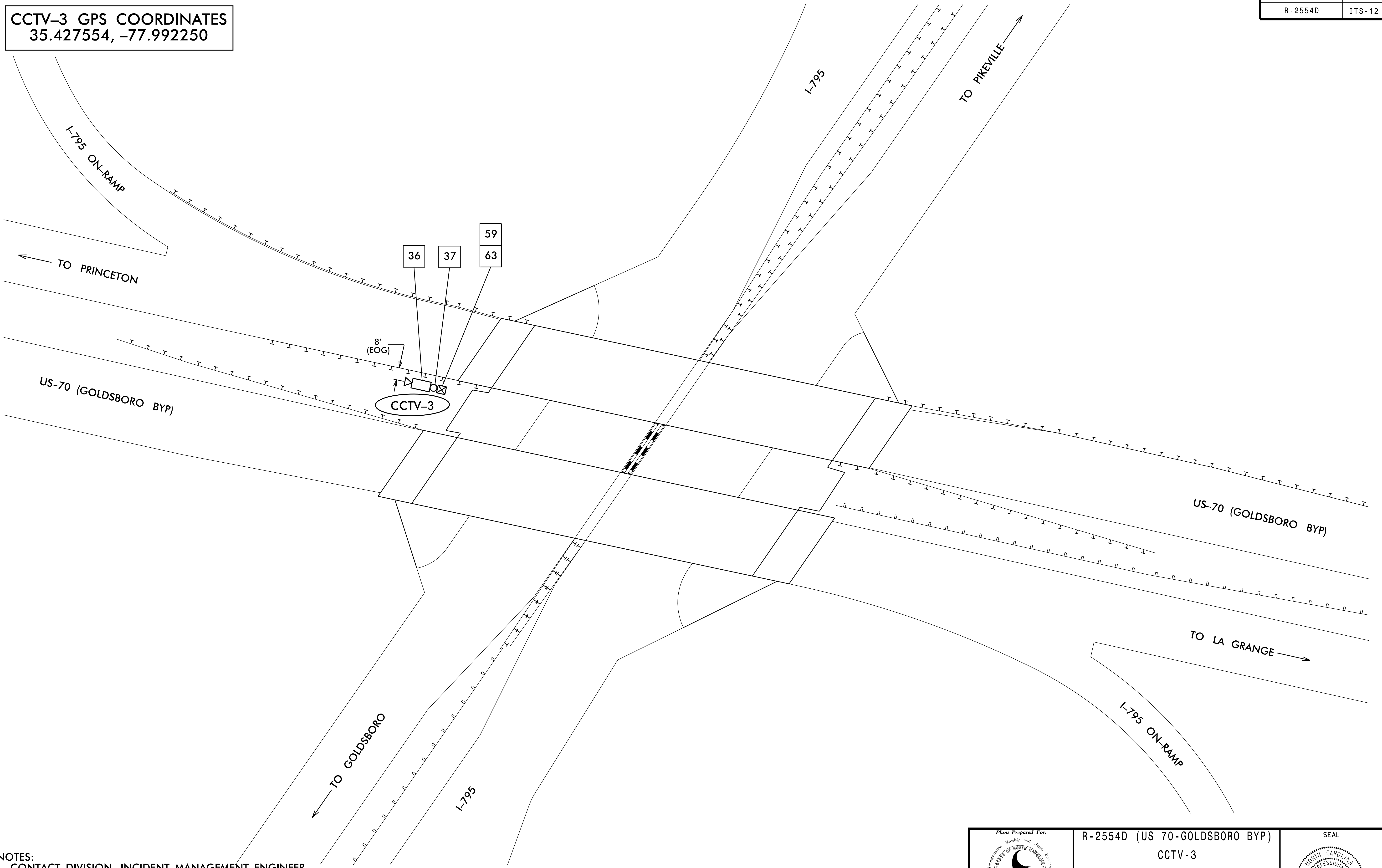
MATCH LINE, SEE SHEET ITS-10

3/11/2015 6:24:31 PM K:\RAL\TPTD\ITS\01036269 - R-2554D\Plans\R-2554D_ITS.psh.c2b.dgn

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| | | | |
|---|---|-------------------------|--|
| 750 N. Greenfield Parkway, Garner, NC 27529 | Plans Prepared For: R-2554D (US 70-GOLDSBORO BYP) | | |
| | CCTV-2 | | |
| | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | |
| | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | |
| REVISIONS | INIT. | DATE | DocuSigned by: <i>Kevin W. Smith</i> 3/12/2015 CADD Filename: |
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CCTV-3 GPS COORDINATES
35.427554, -77.992250

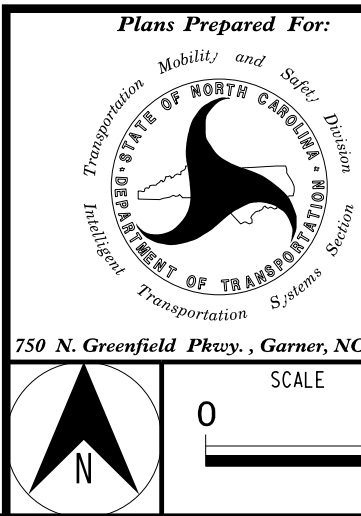


NOTES:

1. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
2. MOUNT CCTV CAMERA 45' ABOVE GRADE.
3. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
4. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-6 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.

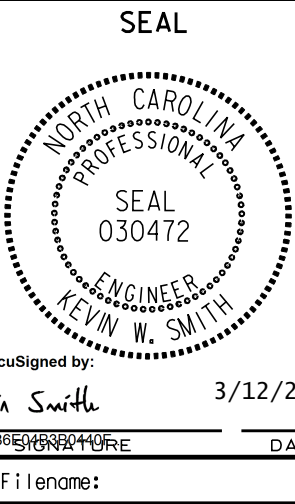
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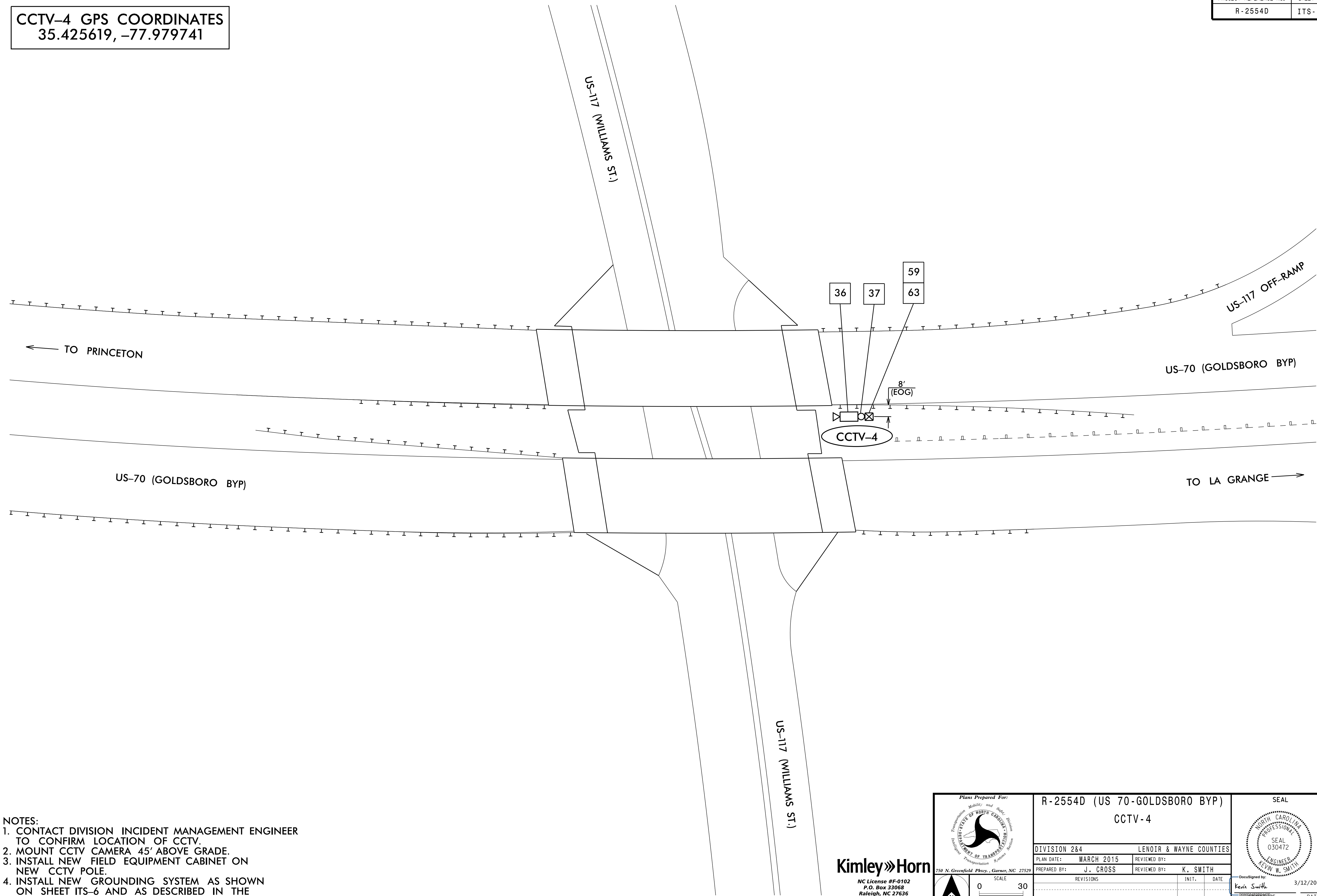


R-2554D (US 70-GOLDSBORO BYP)
CCTV-3

| | | | |
|--------------|------------|-------------------------|----------|
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| PLAN DATE: | MARCH 2015 | REVIEWED BY: | |
| PREPARED BY: | J. CROSS | REVIEWED BY: | K. SMITH |
| REVISIONS | | INIT. | DATE |
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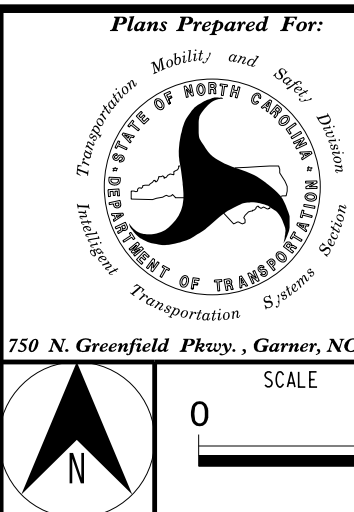


CCTV-4 GPS COORDINATES
35.425619, -77.979741



- NOTES:
1. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
 2. MOUNT CCTV CAMERA 45' ABOVE GRADE.
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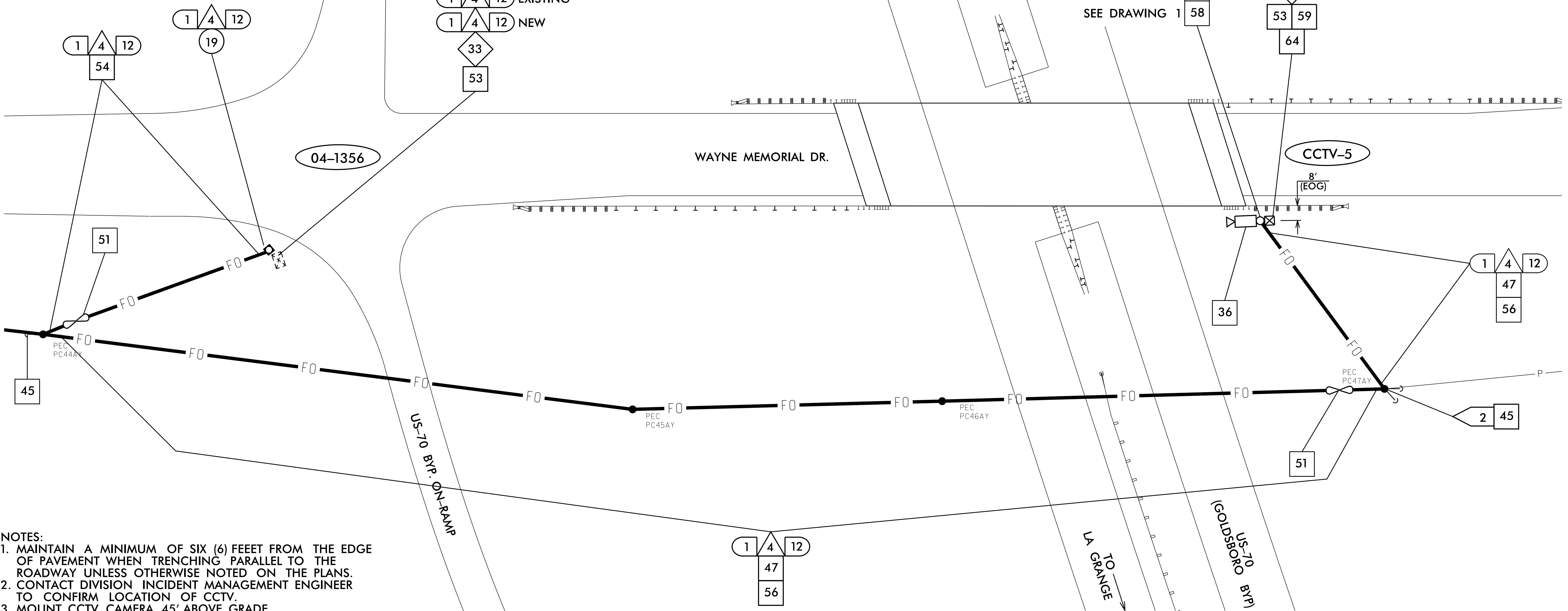
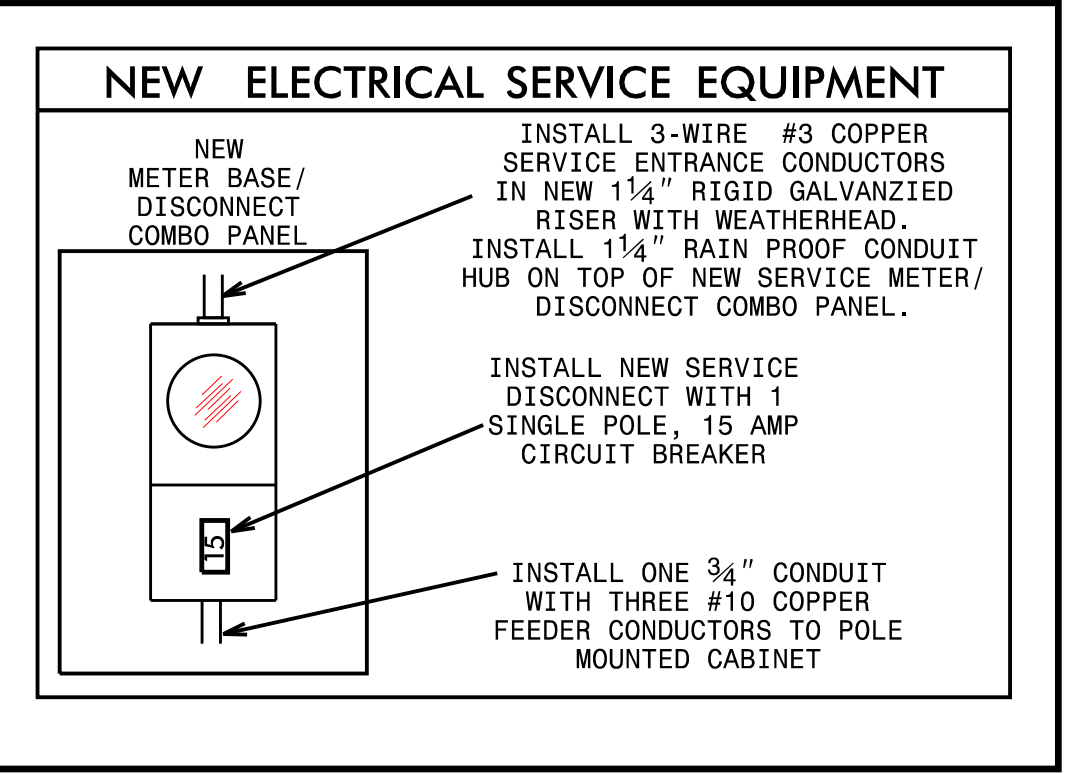
R-2554D (US 70-GOLDSBORO BYP)
CCTV-4

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|--------------|------------|-------------------------|----------|
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| PLAN DATE: | MARCH 2015 | REVIEWED BY: | |
| PREPARED BY: | J. CROSS | REVIEWED BY: | K. SMITH |
| REVISIONS | | INIT. | DATE |
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SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
030472
KEVIN W. SMITH
3/12/2015
CADD Filename:

CCTV-5 GPS COORDINATES
35.419139, -77.934461

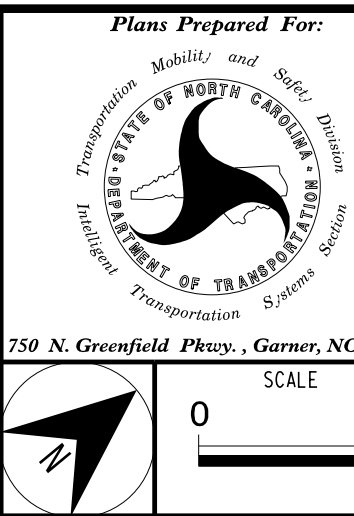
DRAWING 1



- NOTES:**
1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
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 3. MOUNT CCTV CAMERA 45' ABOVE GRADE.
 4. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
 5. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-5 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
 6. CONTACT JON MARSTON WITH DUKE ENERGY AT 919-583-2096 TO OBTAIN POWER TO ELECTRICAL SERVICE.
 7. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN SAME BORE AND TRENCH. USE SEPERATE CONDUITS AND SEPERATE JUNCTION BOXES FOR POWER AND COMMUNICATIONS.

NOTE:
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

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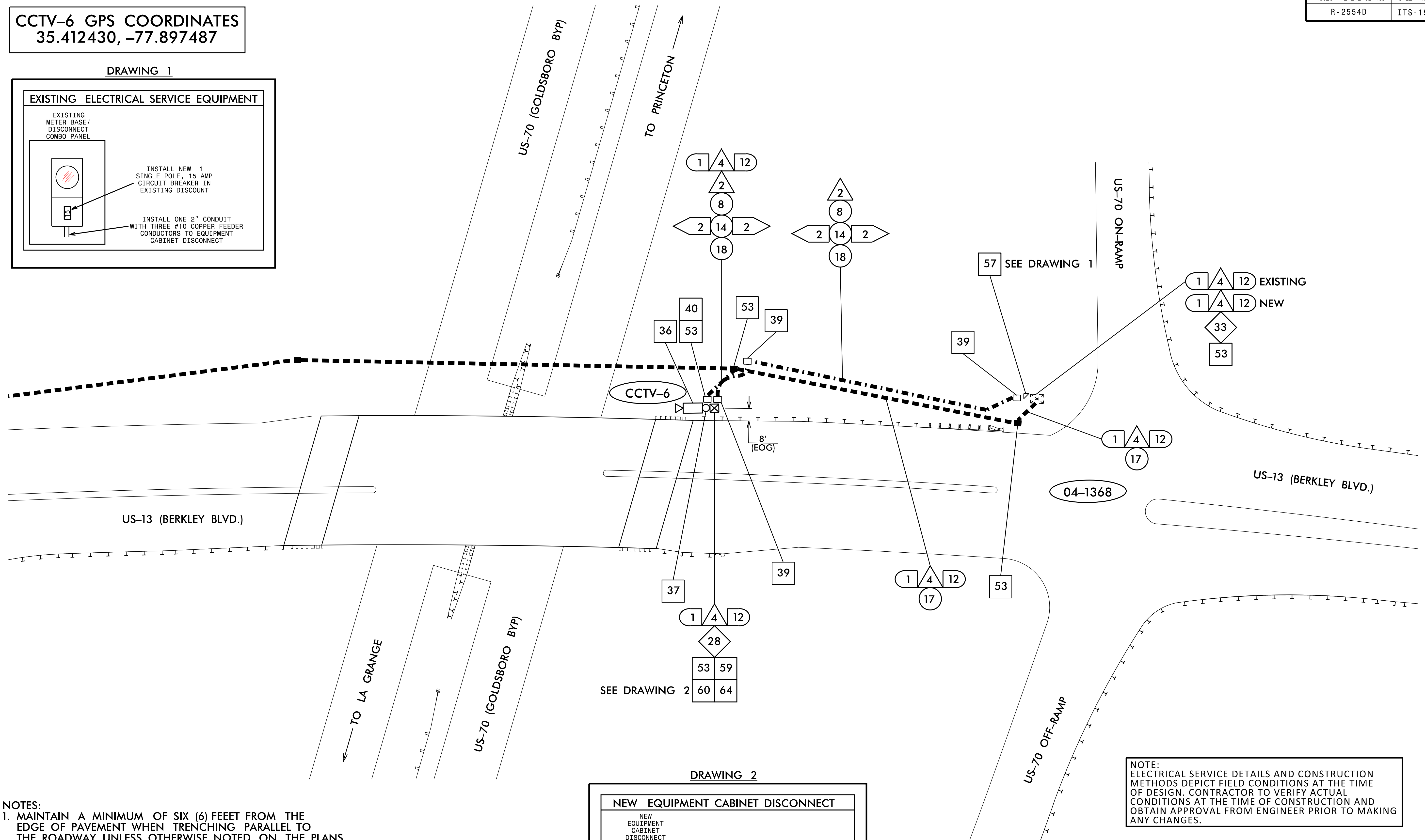
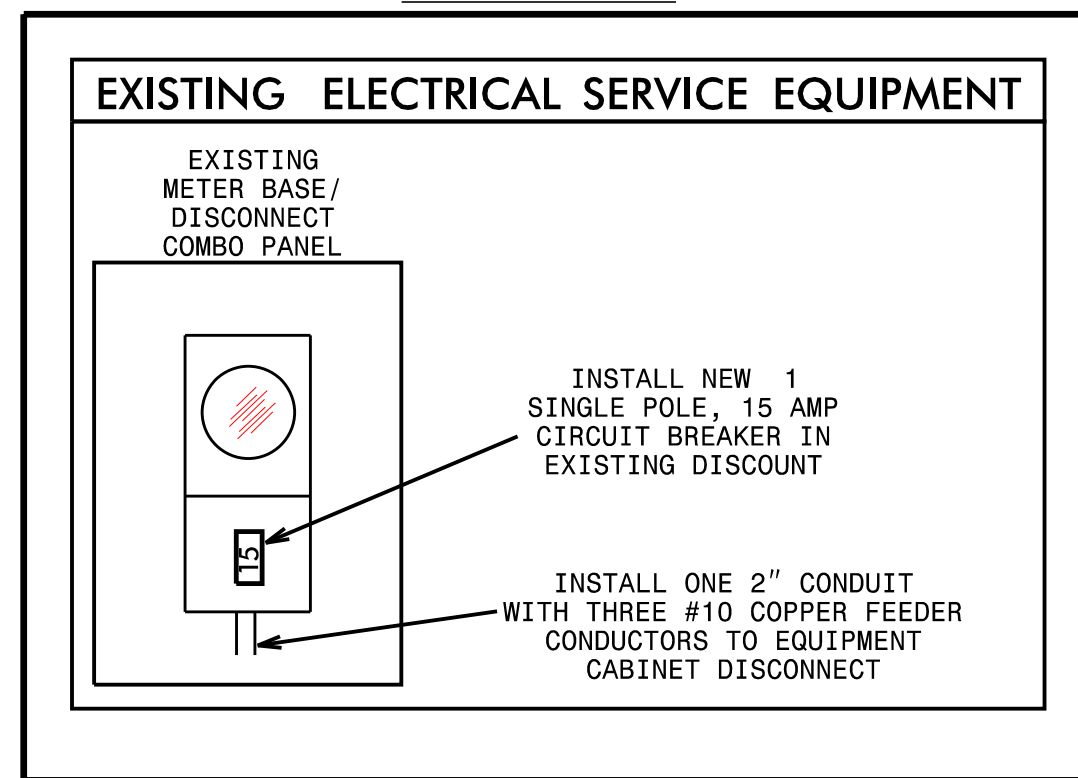
R-2554D (US 70-GOLDSBORO BYP)
CCTV-5

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|-----------------------|-------------------------|
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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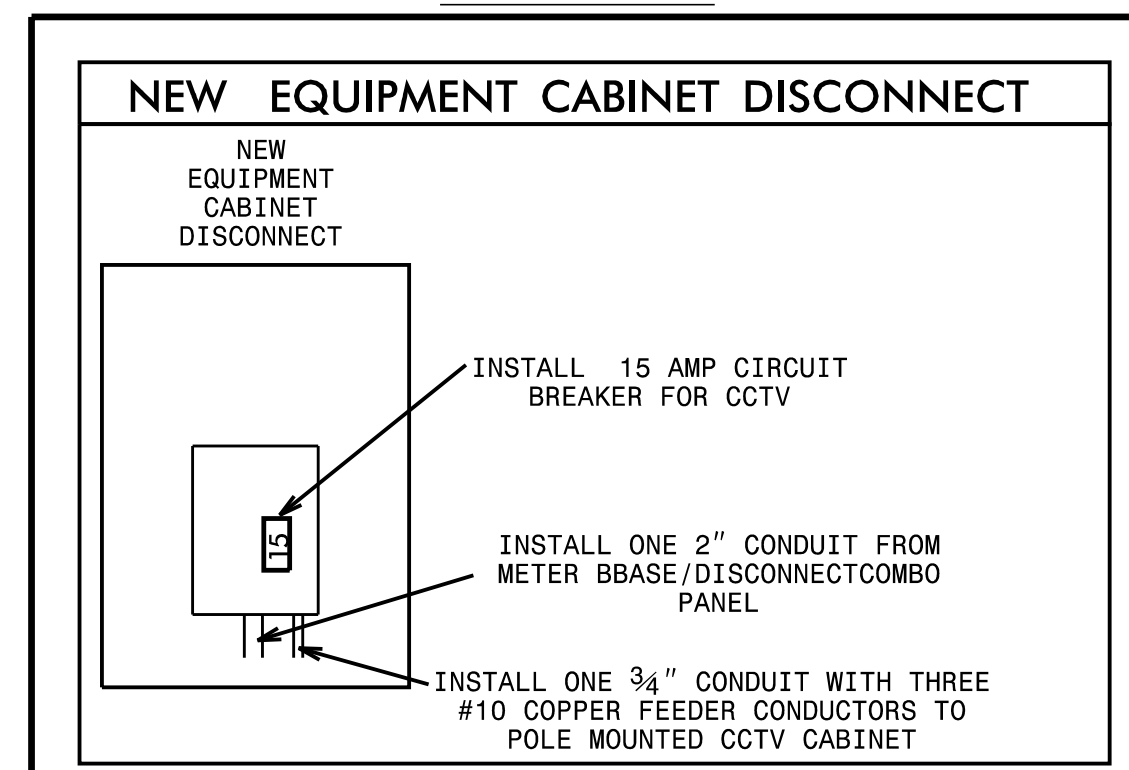
SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
KEVIN W. SMITH
SEAL
030472
DocuSigned by:
Kevin W. Smith
3/12/2015
CADD Filename:

CCTV-6 GPS COORDINATES
35.412430, -77.897487

DRAWING 1



DRAWING 2

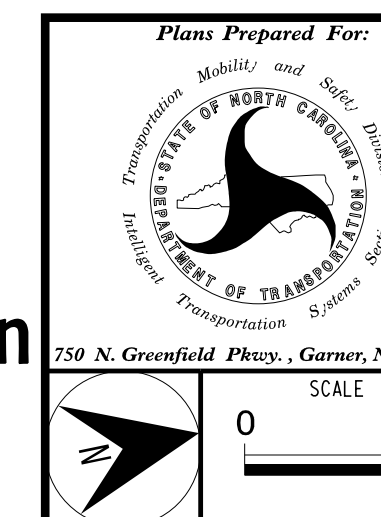


NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
3. MOUNT CCTV CAMERA 45' ABOVE GRADE.
4. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
5. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-4 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
6. INSTALL CONDUITS FOR FEEDER CONDUCTORS AND FIBER OPTIC CABLE IN SAME BORE AND TRENCH. USE SEPERATE CONDUITS AND SEPERATE JUNCTION BOXES FOR POWER AND COMMUNICATIONS.

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R-2554D (US 70-GOLDSBORO BYP)
CCTV-6

DIVISION 2&4 LENOIR & WAYNE COUNTIES

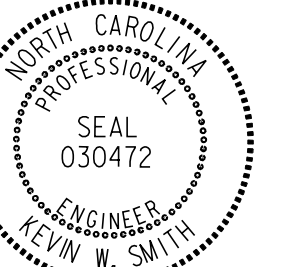
PLAN DATE: MARCH 2015 REVIEWED BY:

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS INIT. DATE

0 SCALE 30

SEAL

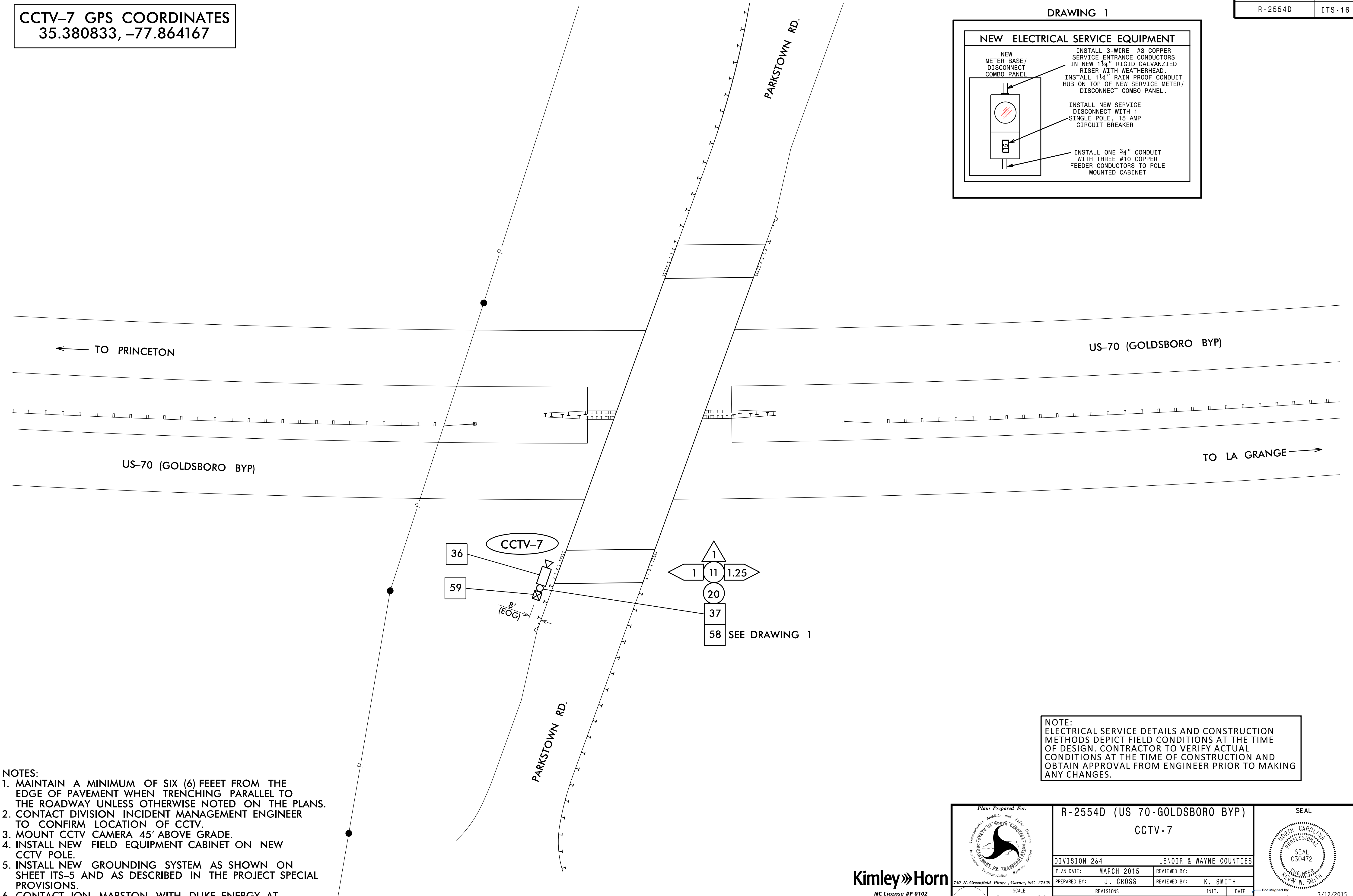
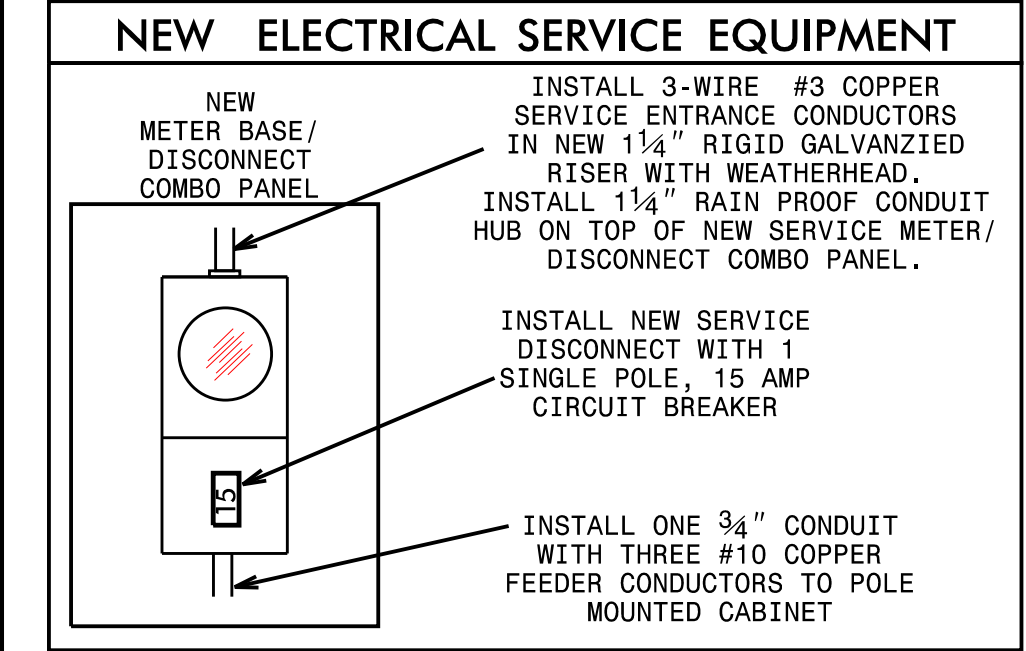


DocuSigned by: Kevin W. Smith 3/12/2015

CADD Filename:

CCTV-7 GPS COORDINATES
35.380833, -77.864167

DRAWING 1

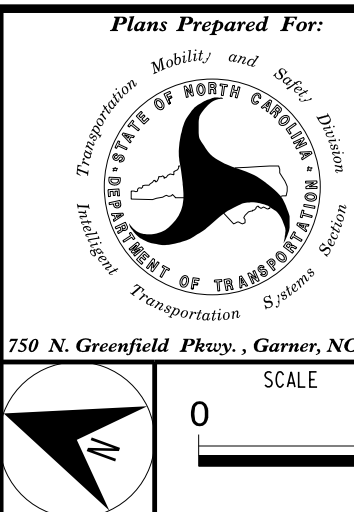


- NOTES:
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 6. CONTACT JON MARSTON WITH DUKE ENERGY AT 919-583-2096 TO OBTAIN POWER TO ELECTRICAL SERVICE.

NOTE:
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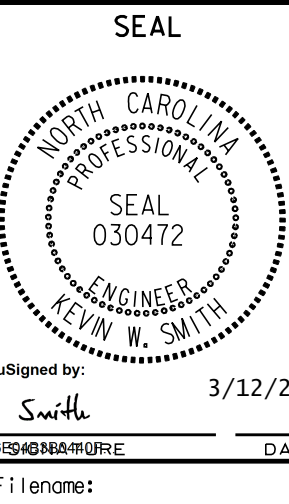
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P.O. Box 33068
Raleigh, NC 27636
Tel: (919) 677-2000
Fax: (919) 677-2050

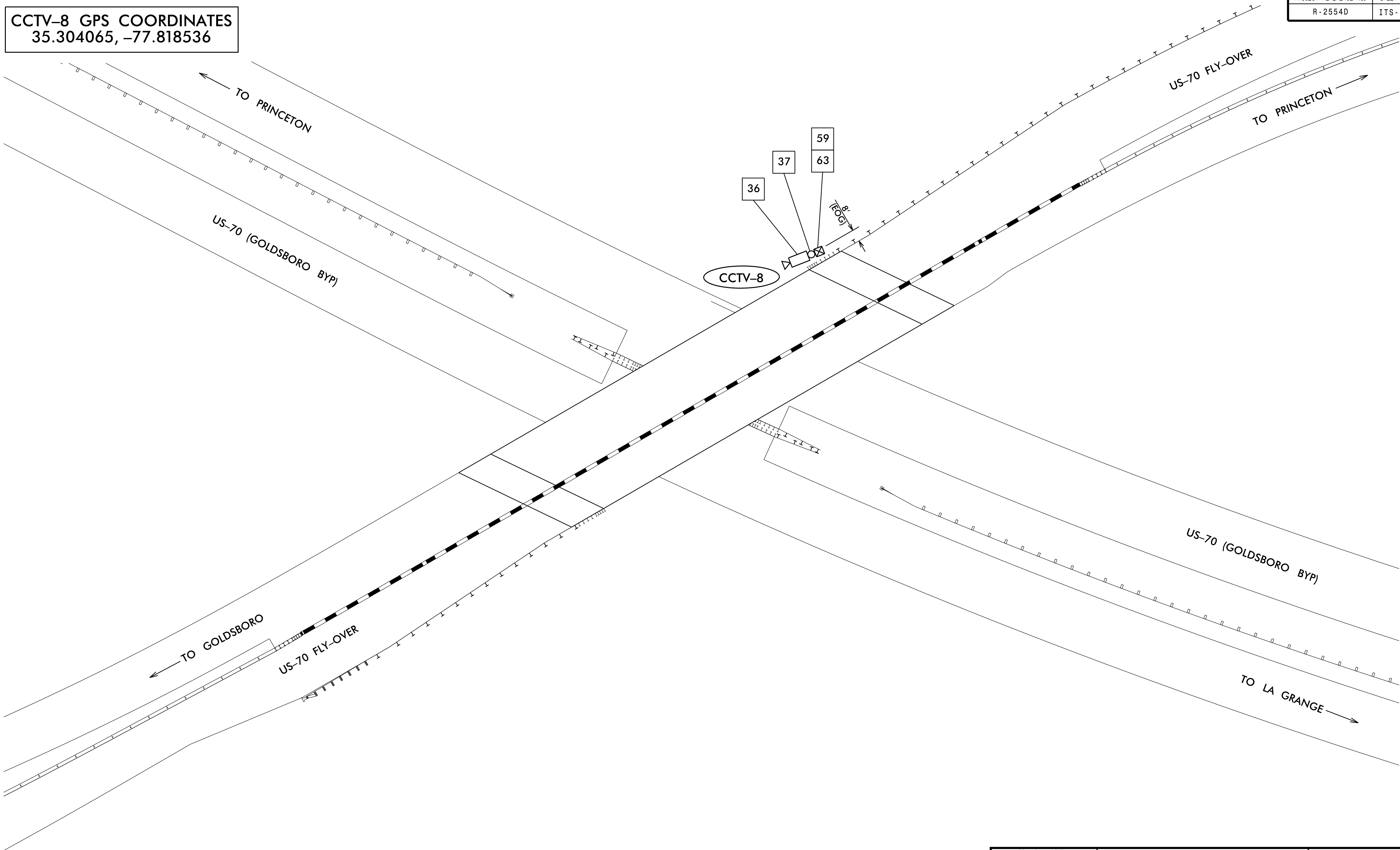


R-2554D (US 70-GOLDSBORO BYP)
CCTV-7

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|-----------------------|-------------------------|
| DIVISION 284 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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CCTV-8 GPS COORDINATES
35.304065, -77.818536

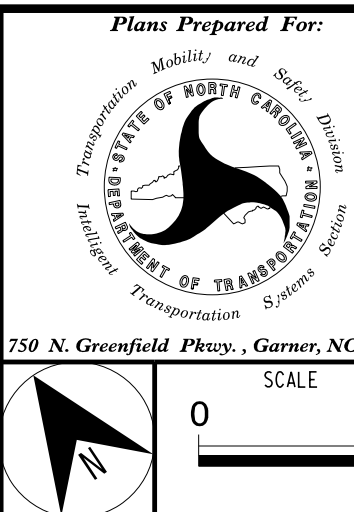


NOTES:

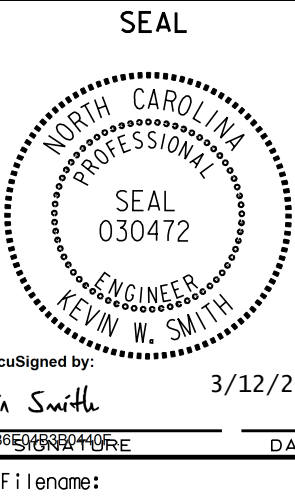
1. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
2. MOUNT CCTV CAMERA 45' ABOVE GRADE.
3. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
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Kimley»Horn

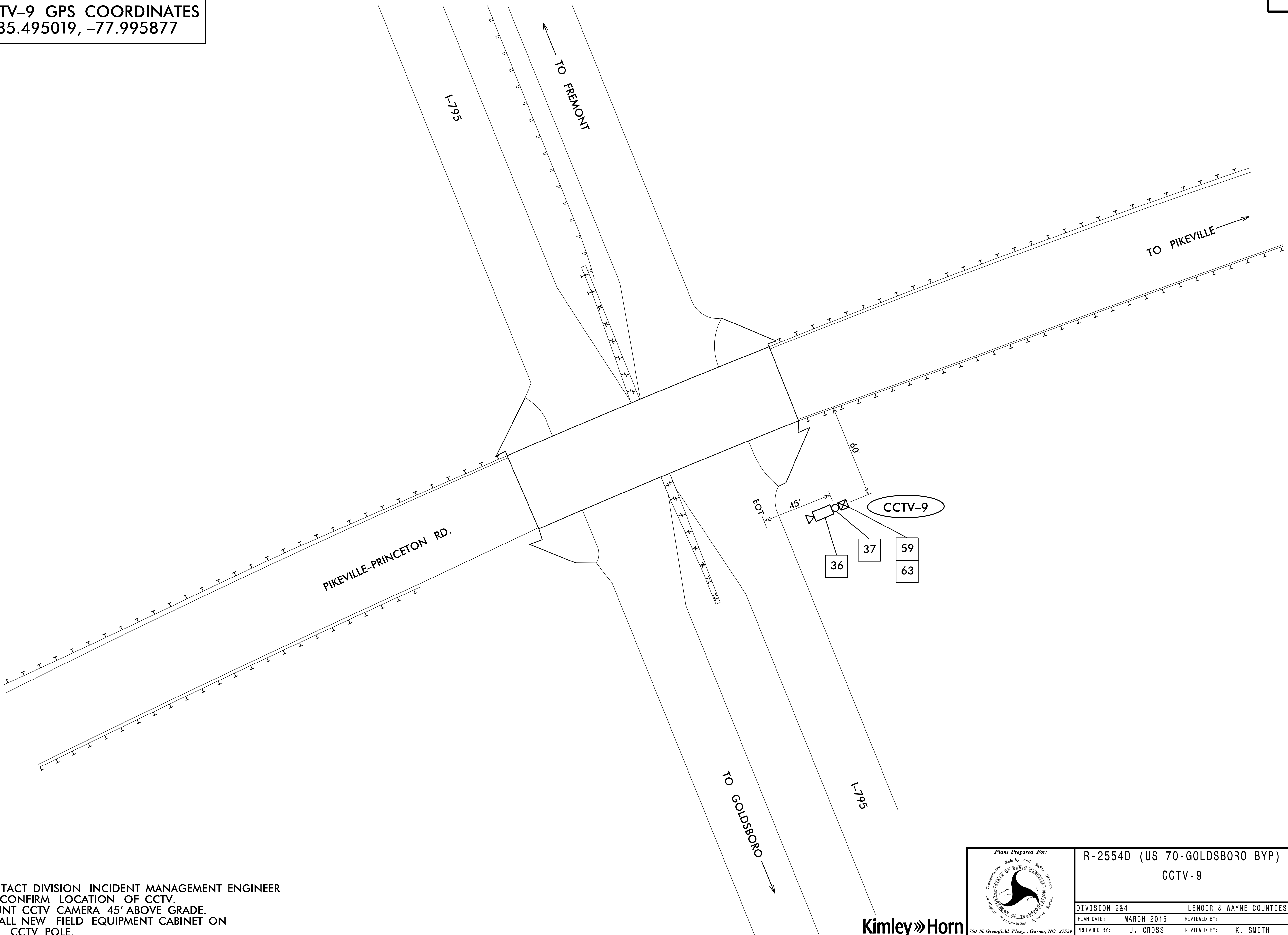
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|-------------------------------|-------------------------|
| R-2554D (US 70-GOLDSBORO BYP) | |
| CCTV-8 | |
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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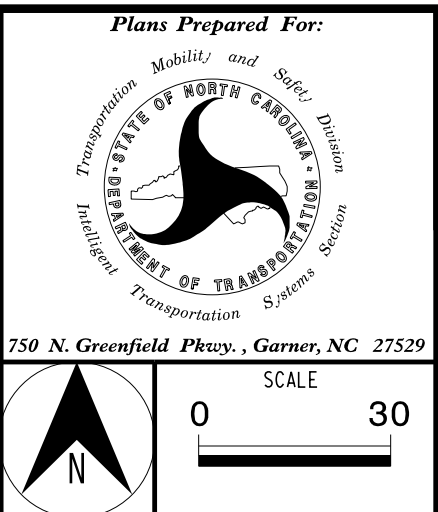


CCTV-9 GPS COORDINATES
35.495019, -77.995877

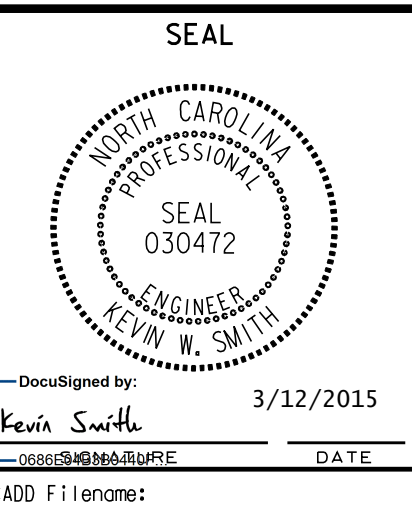


- NOTES:
1. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF CCTV.
 2. MOUNT CCTV CAMERA 45' ABOVE GRADE.
 3. INSTALL NEW FIELD EQUIPMENT CABINET ON NEW CCTV POLE.
 4. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-6 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.

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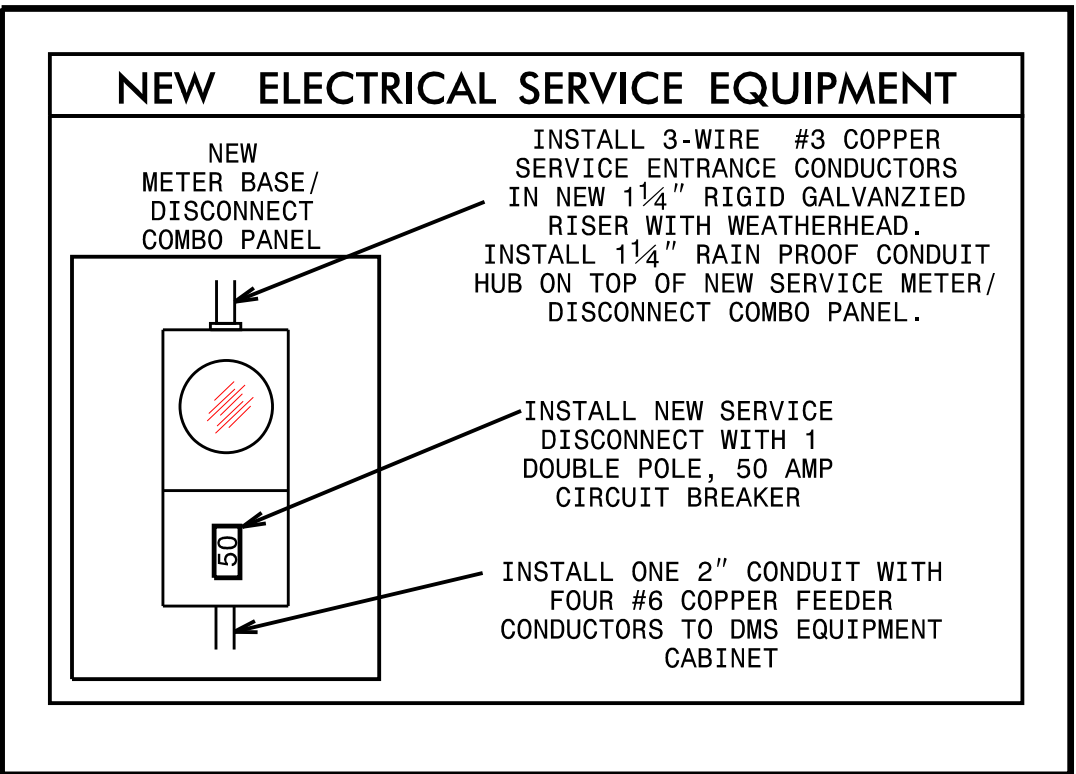


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|-------------------------------|-------------------------|
| R-2554D (US 70-GOLDSBORO BYP) | |
| CCTV-9 | |
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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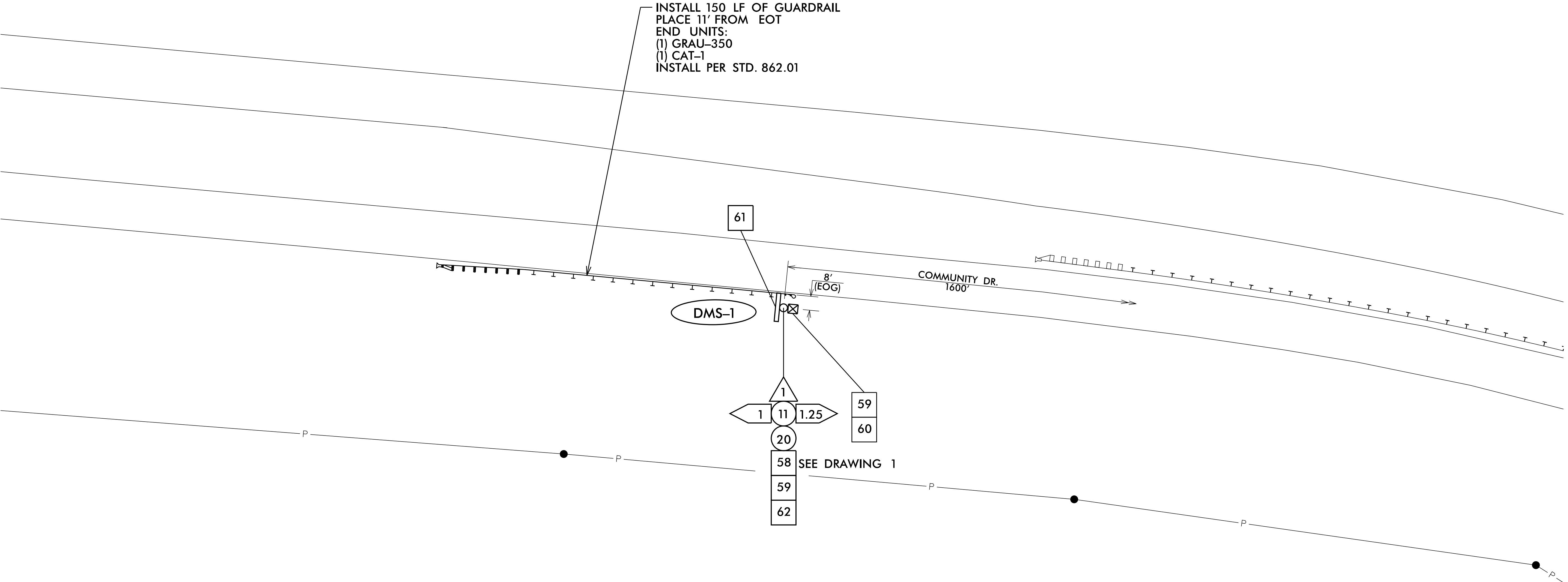


DMS-1 GPS COORDINATES
35.440996, -78.090774

DRAWING 1



INSTALL 150 LF OF GUARDRAIL
PLACE 11' FROM EOT
END UNITS:
(1) GRAU-350
(1) CAT-1
INSTALL PER STD. 862.01



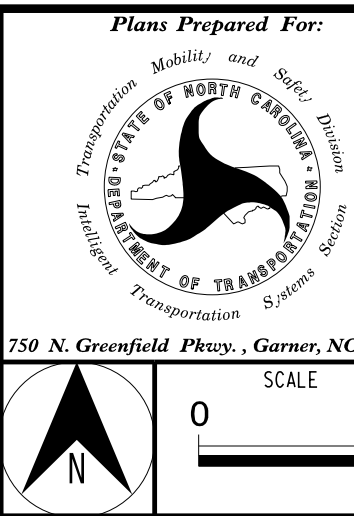
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF DMS.
3. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-7 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
4. INSTALL NEW DMS, WALKWAY, LADDER AND POLE MOUNTED CABINET ON NEW DMS STRUCTURE.
5. CONTACT TONY GRANTHAM WITH TRI-COUNTY ELECTRIC AT 800-548-4869 TO OBTAIN POWER TO ELECTRICAL SERVICE.

NOTE:
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

Kimley»Horn

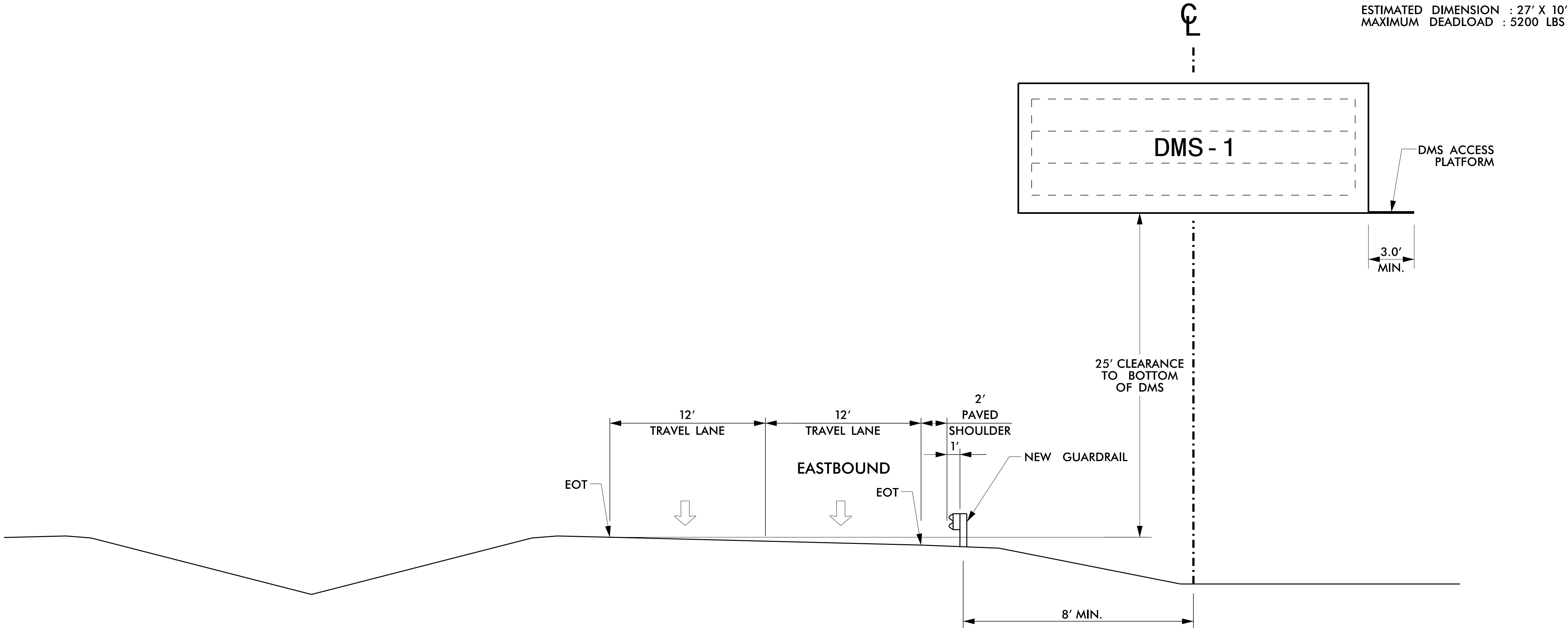
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Raleigh, NC 27636
Tel: (919) 677-2000
Fax: (919) 677-2050



R-2554D (US 70-GOLDSBORO BYP)
DMS-1

| | |
|-----------------------|-------------------------|
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
KEVIN W. SMITH
3/12/2015
DATE
CADD Filename:

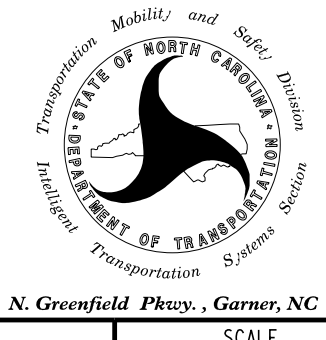


NOTES

1. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
2. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD). START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER-TO-CENTER TYPICAL SPACING.
3. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
4. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
5. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. 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.
7. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

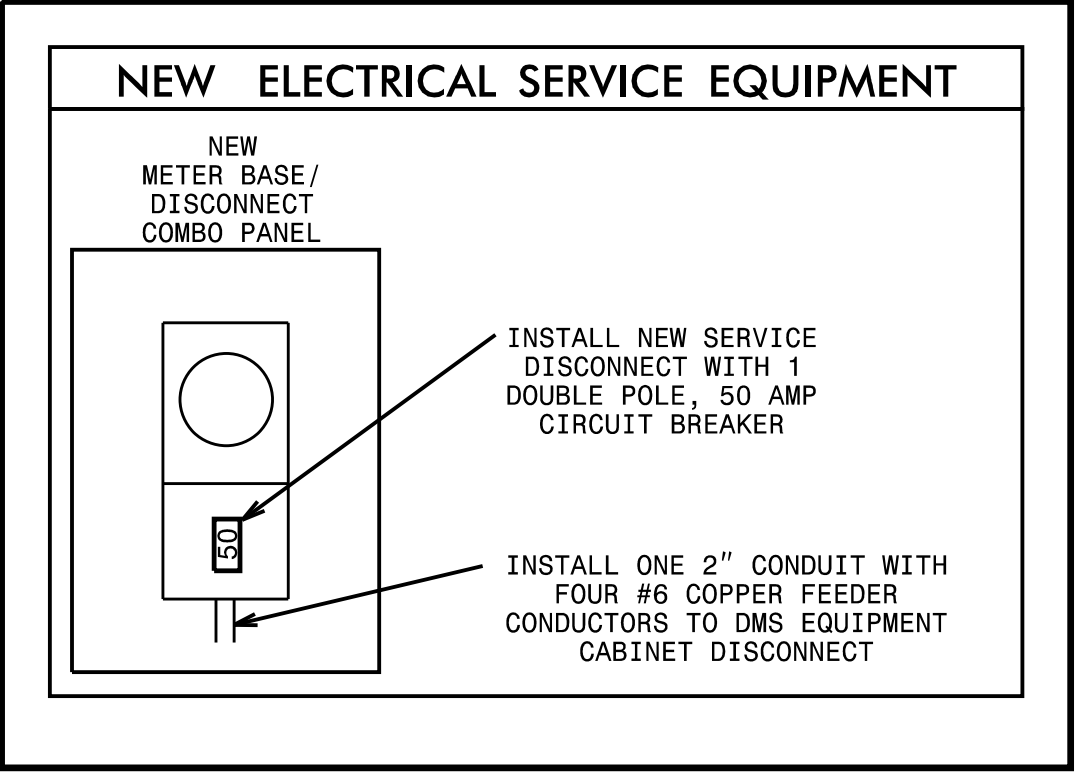
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Raleigh, NC 27636
Tel: (919) 677-2000
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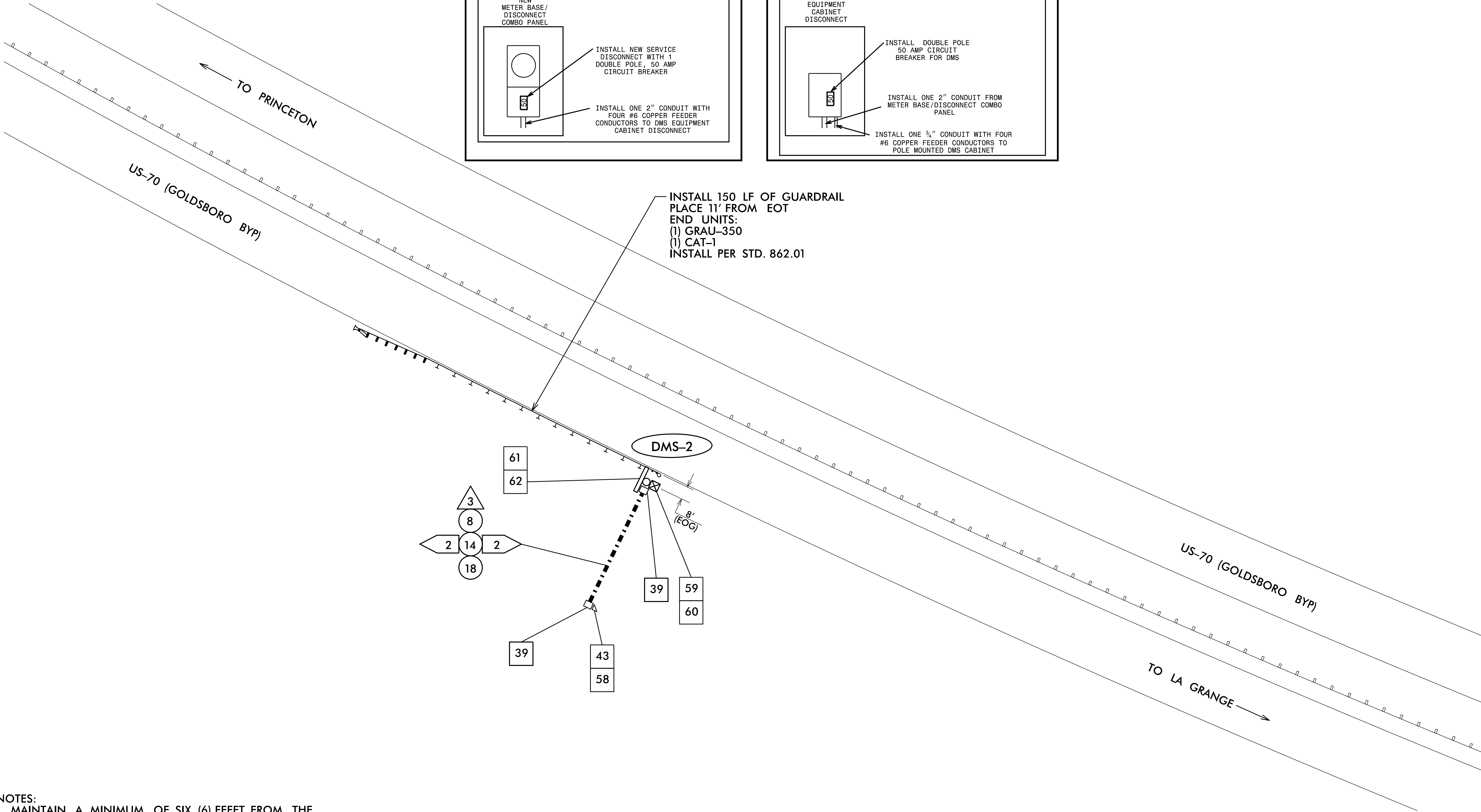
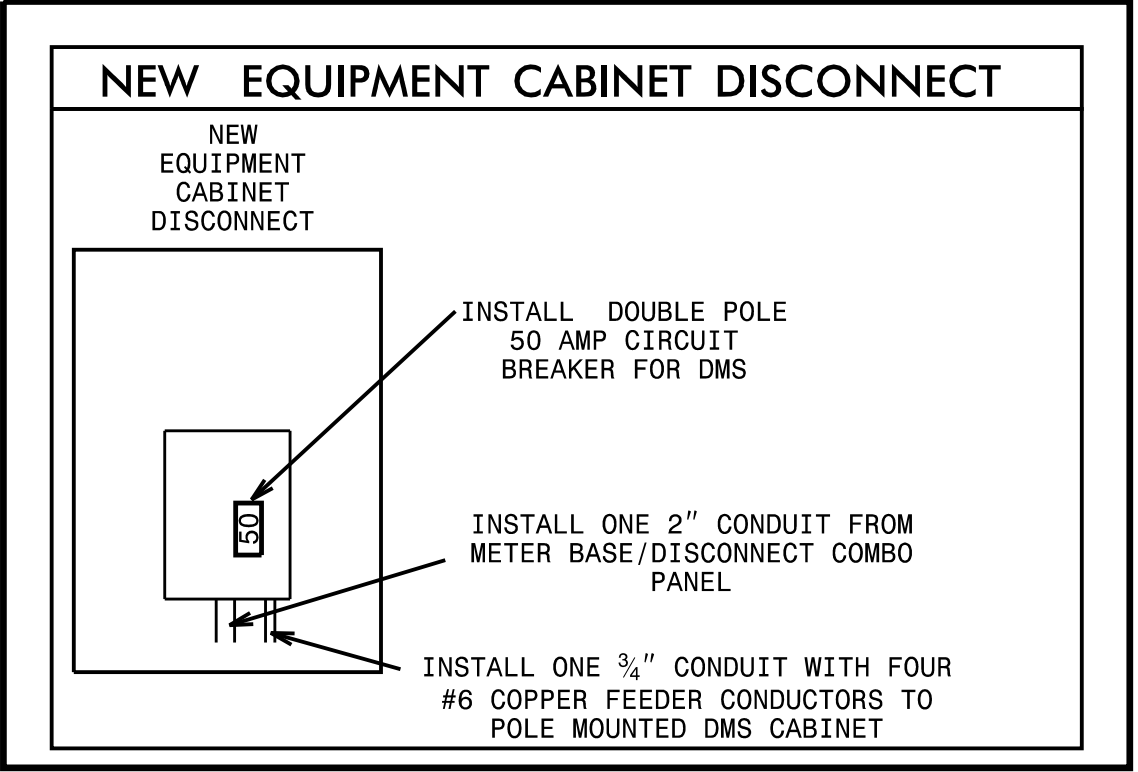
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|--|--|----------------|----------------------------|--|
|  750 N. Greenfield Parkway, Garner, NC 27529 | R-2554D (US 70-GOLDSBORO BYP) | | SEAL | |
| | DMS-1 PROFILE | | SEAL 030472 | |
| | DIVISION 2&4 LENOIR & WAYNE COUNTIES | | 3/12/2015 | |
| | PLAN DATE: MARCH 2015 REVIEWED BY: J. CROSS K. SMITH | | DocuSigned by: Kevin Smith | |
| PREPARED BY: J. CROSS REVIEWED BY: K. SMITH | | DATE | | |
| REVISIONS | | INIT. DATE | | |
| 0 | | DATE | | |
| SCALE | | CADD Filename: | | |

DMS-2 GPS COORDINATES
35.427622, -178.045733

DRAWING 1



DRAWING 2



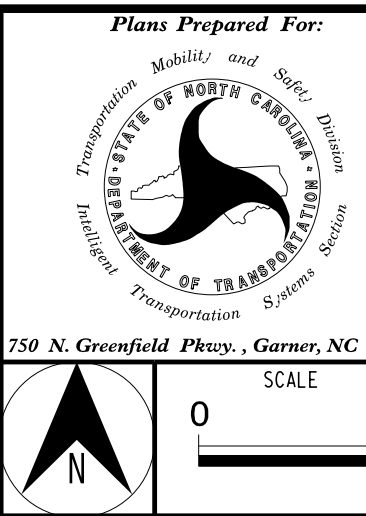
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF DMS.
3. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-7 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
4. INSTALL NEW DMS, WALKWAY, LADDER AND POLE MOUNTED CABINET ON NEW DMS STRUCTURE.
5. CONTACT JON MARSTON WITH DUKE ENERGY AT 919-583-2096 TO OBTAIN POWER TO ELECTRICAL SERVICE.

NOTE:
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Kimley»Horn

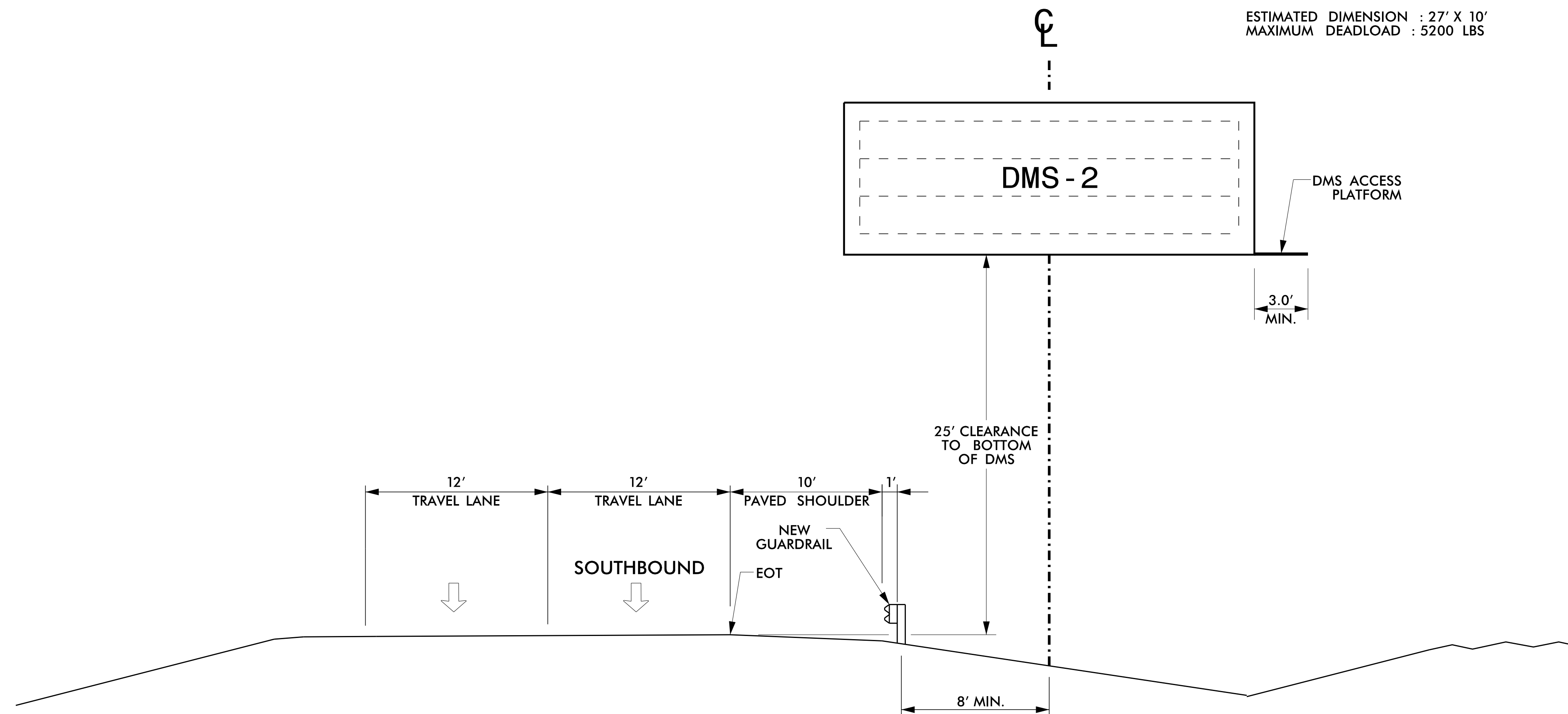
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R-2554D (US 70-GOLDSBORO BYP)
DMS-2

| | |
|-----------------------|-------------------------|
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
| | |
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| | |








NOTES

1. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
2. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD). START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER-TO-CENTER TYPICAL SPACING.
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5. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. 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.
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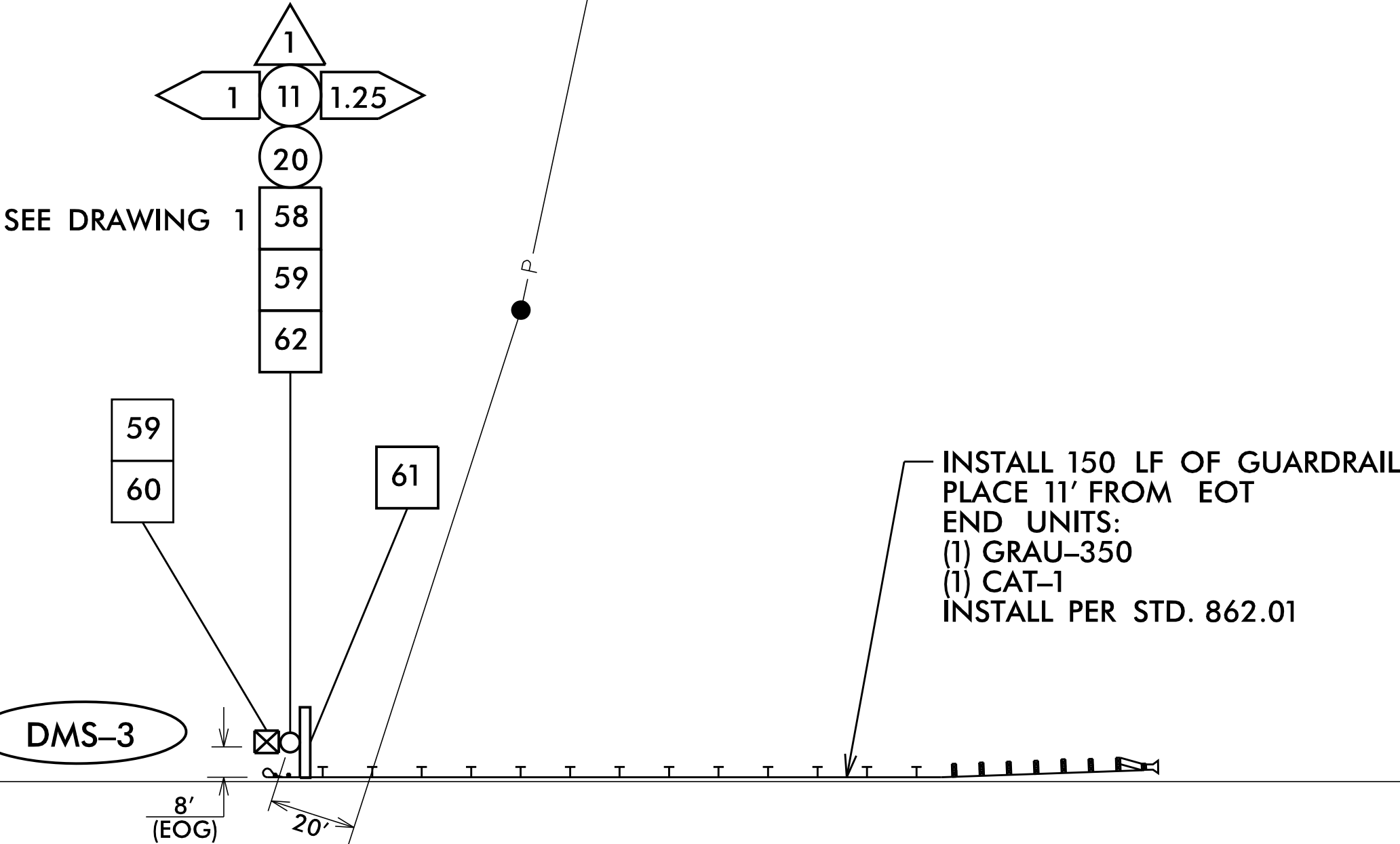
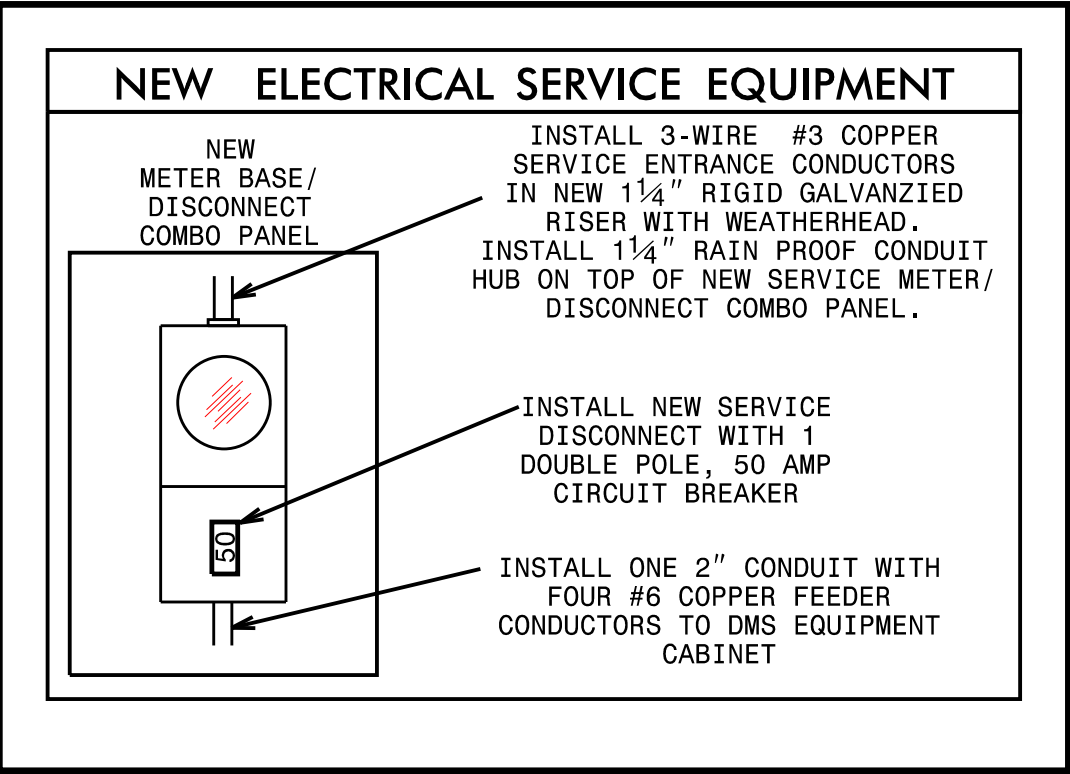
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| <p style="text-align: center;">Plans Prepared For:</p>  <p style="text-align: center;">750 N. Greenfield Pkwy., Garner, NC 27529</p> | <p style="text-align: center; font-size: 24px; font-weight: bold;">R-2554D (US 70-GOLDSBORO BYP)</p> <p style="text-align: center; font-size: 36px; font-weight: bold;">DMS-2 PROFILE</p> | <p style="text-align: center;">SEAL</p>  | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|-----------------------|-----------|-------------------------|--|-----------------------|--------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 5px;">DIVISION 2&4</td> <td colspan="2" style="padding: 5px;">LENOIR & WAYNE COUNTIES</td> </tr> <tr> <td style="width: 50%; padding: 5px;">PLAN DATE: MARCH 2015</td> <td style="width: 50%; padding: 5px;">REVIEWED BY:</td> <td style="width: 50%; padding: 5px;">PREPARED BY: J. CROSS</td> <td style="width: 50%; padding: 5px;">REVIEWED BY: K. SMITH</td> </tr> </table> | | | DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | |
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | | | | | | | | | | | | | | | | | | | | |
| PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">SCALE</p> <div style="display: flex; align-items: center;"> 0  </div> | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px;">REVISIONS</th> <th style="width: 50%; padding: 5px;">INIT. DATE</th> </tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> </table> | | REVISIONS | INIT. DATE | | | | | | | | | | | | | | | | | | |
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| <p><input type="checkbox"/> Document by: <u>Kevin Smith</u> 3/12/2015</p> <p><input type="checkbox"/> Drawn/Engineer/Profile: _____ DATE _____</p> <p>CADD File name: _____</p> | | | | | | | | | | | | | | | | | | | | | | | |

DMS-3 GPS COORDINATES
35.421985, -77.943424

DRAWING 1



← TO PRINCETON

US-70 (GOLDSBORO BYP)

US-70 (GOLDSBORO BYP)

TO LA GRANGE →

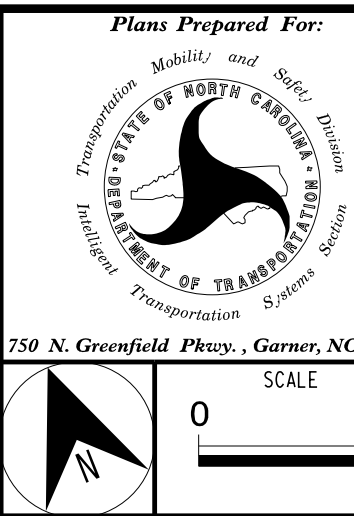
NOTES:

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Kimley»Horn

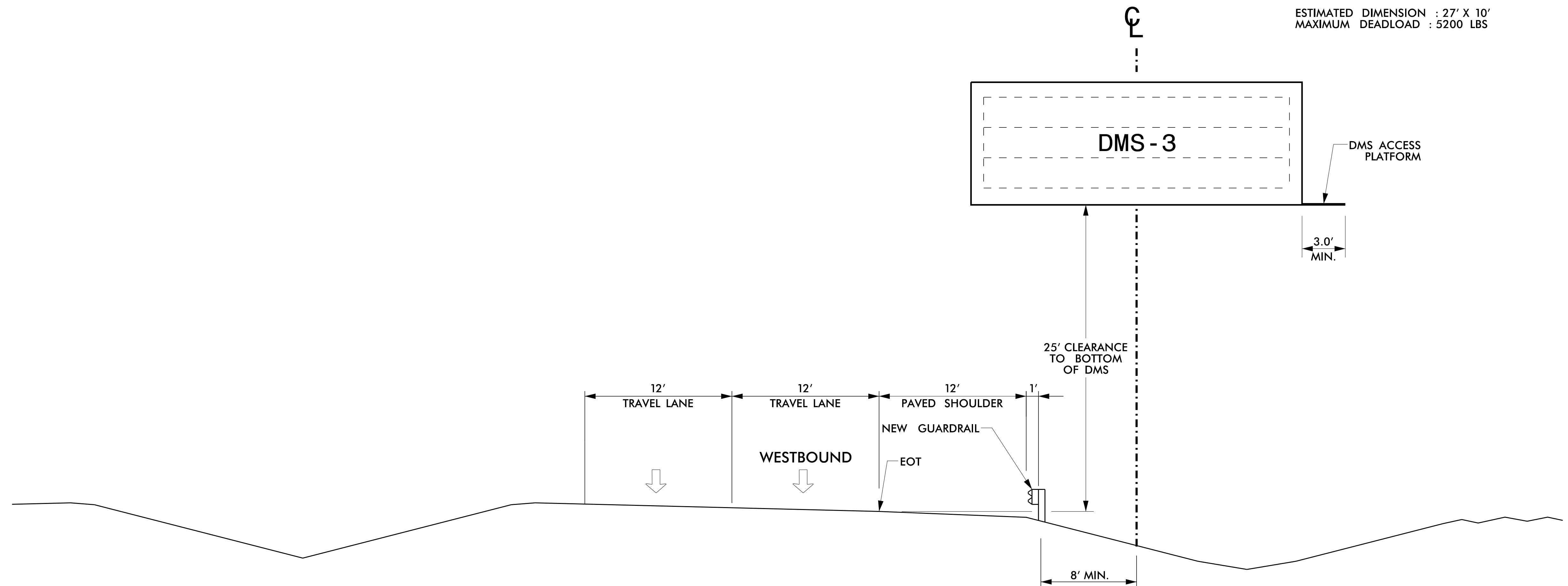
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R-2554D (US 70-GOLDSBORO BYP)
DMS-3

| | |
|-----------------------|-------------------------|
| DIVISION 2&4 | LENOIR & WAYNE COUNTIES |
| PLAN DATE: MARCH 2015 | REVIEWED BY: |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
| REVISIONS | INIT. DATE |
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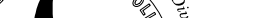


NOTES

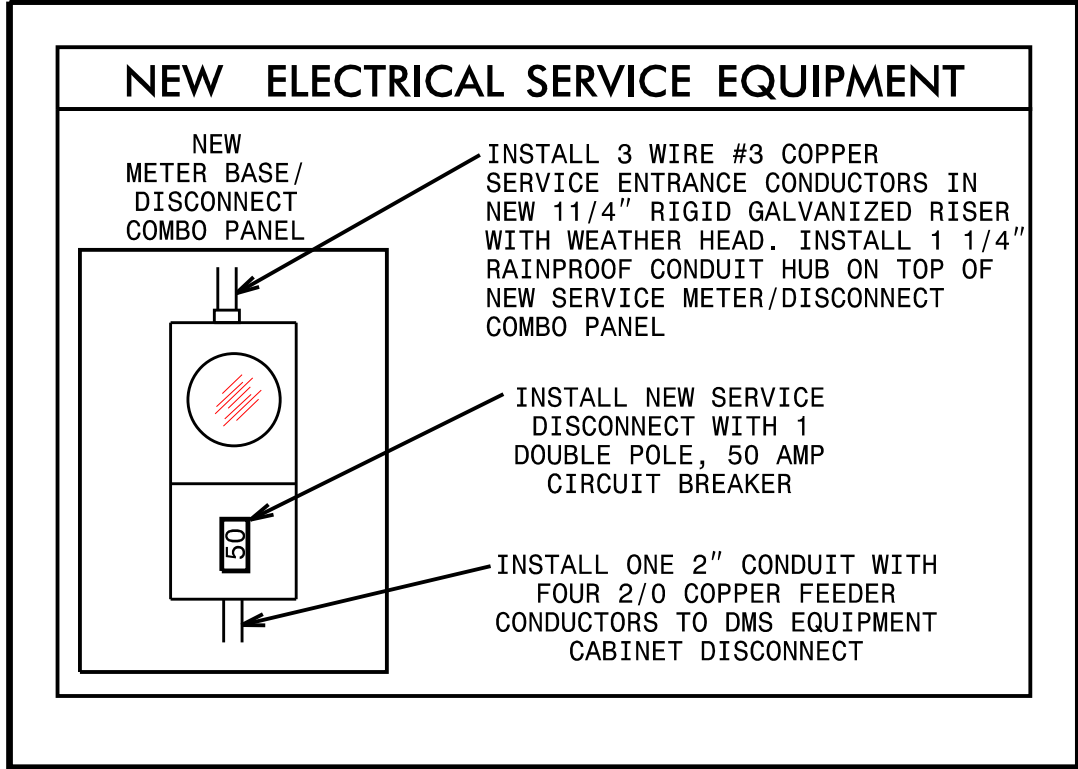
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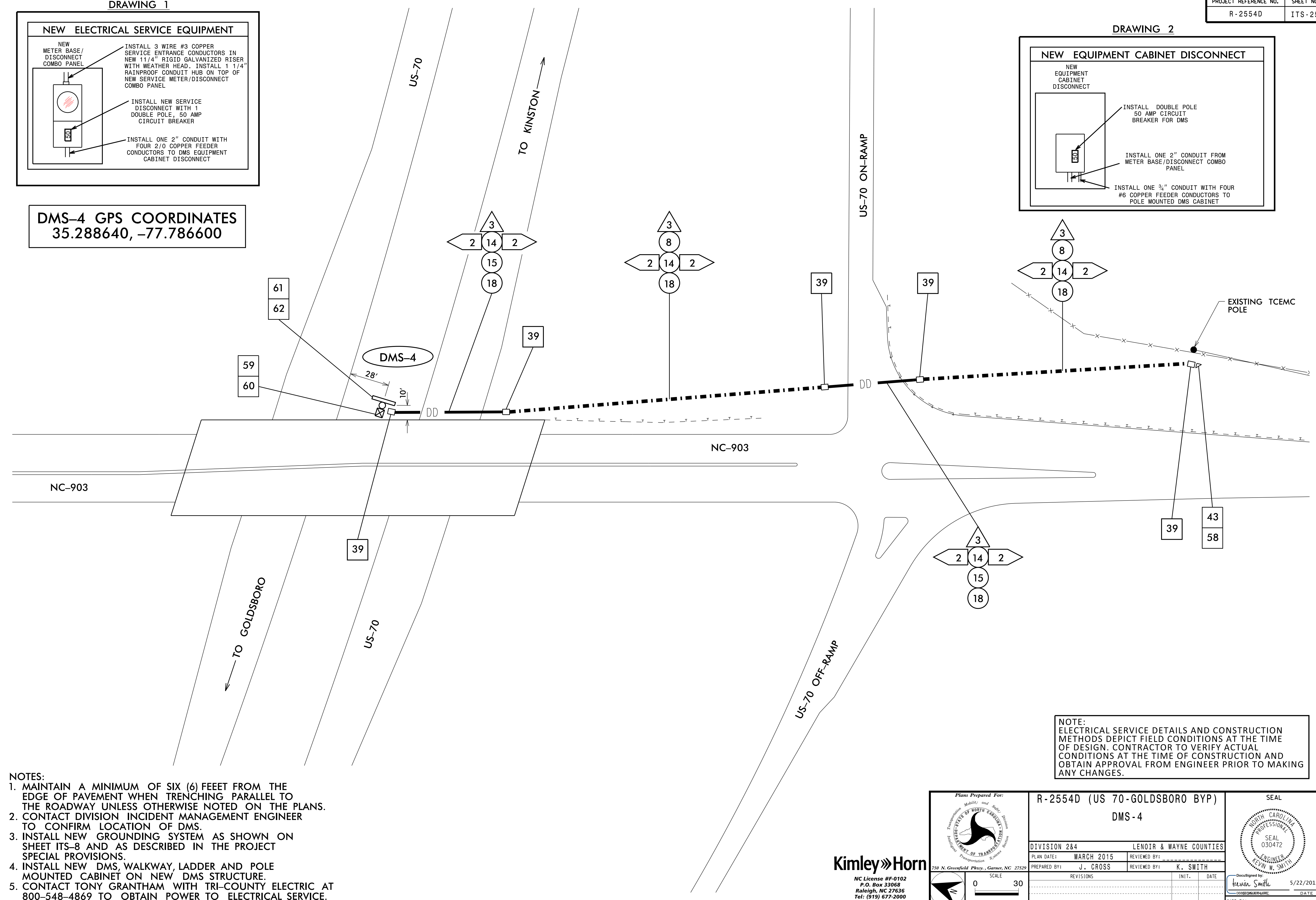
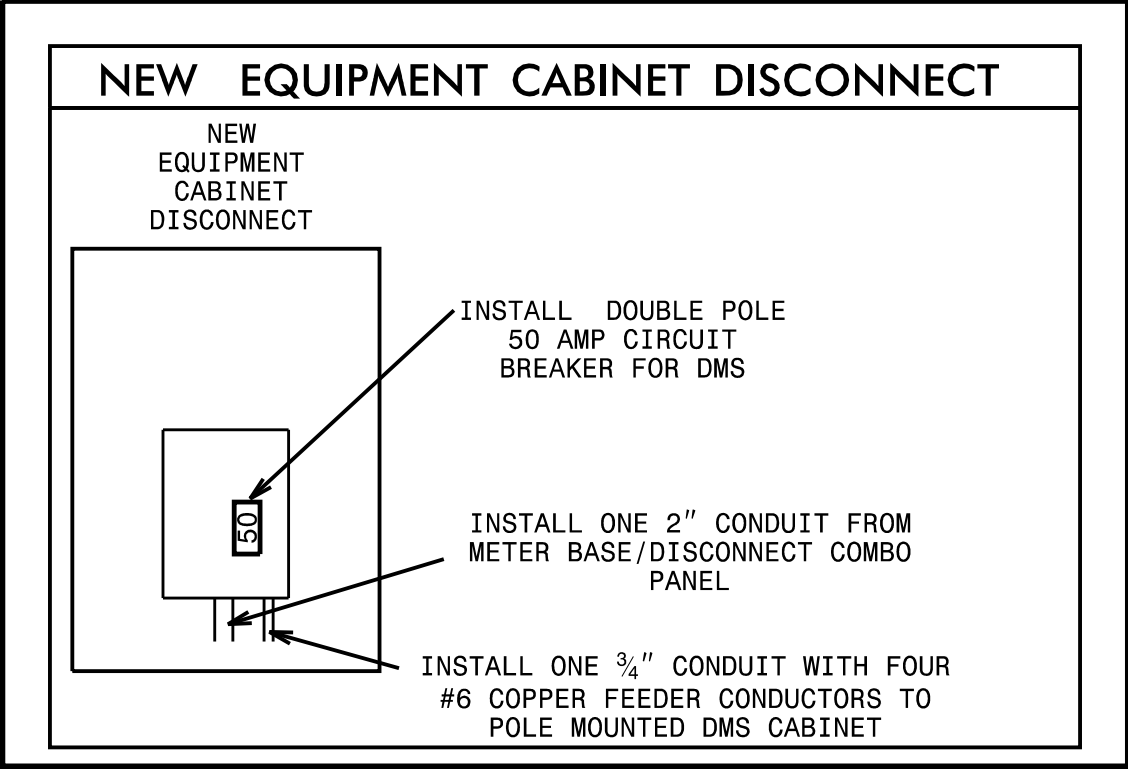
| <p style="text-align: center;">Plans Prepared For:</p>  <p style="text-align: center;">750 N. Greenfield Pkwy., Garner, NC 27529</p> | <p style="font-size: 24pt; font-weight: bold;">R-2554D (US 70-GOLDSBORO BYP)</p> <p style="font-size: 24pt; font-weight: bold;">DMS-3 PROFILE</p> | <p style="font-weight: bold;">SEAL</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------------------|-------|-------------------------|--|-----------------------|--------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| DIVISION 284 | | LENOIR & WAYNE COUNTIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">SCALE</p> <div style="text-align: center;">  </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 60%;">REVISIONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> | | REVISIONS | INIT. | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>— Drawn/Designed by: <u>Kevin Smith</u> 3/12/2015</p> <p>— Checked by: _____ DATE _____</p> <p>CADD File name: _____</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DRAWING 1



DMS-4 GPS COORDINATES
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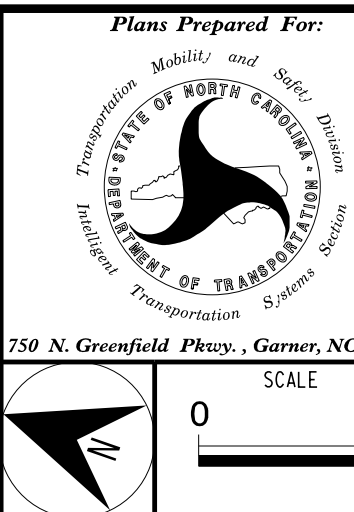
DRAWING 2



- NOTES:**
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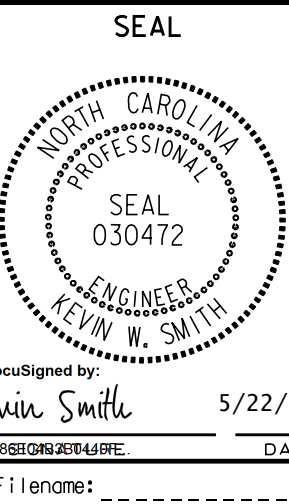
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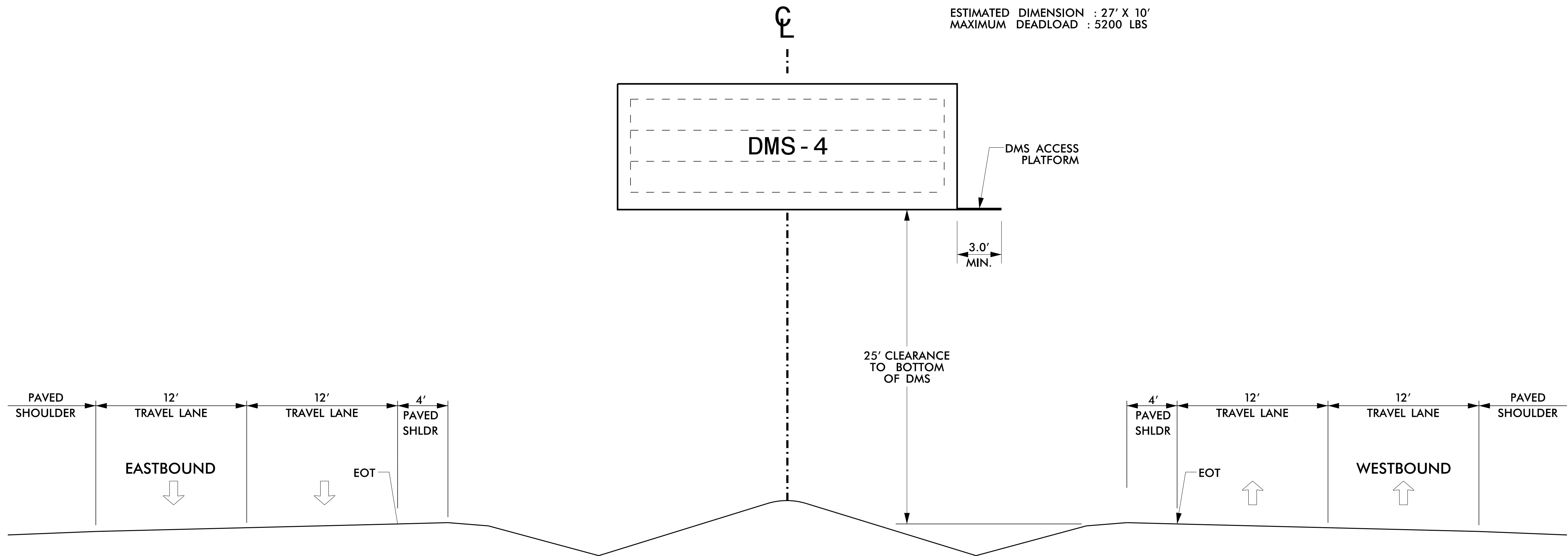


R-2554D (US 70-GOLDSBORO BYP)
DMS-4

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|--------------|------------|-------------------------|----------|
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| PLAN DATE: | MARCH 2015 | REVIEWED BY: | |
| PREPARED BY: | J. CROSS | REVIEWED BY: | K. SMITH |
| REVISIONS | | INIT. | DATE |
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Designed by: Kevin Smith 5/22/2015
Checked by: _____ DATE: _____
CADD Filename: _____



NOTES

1. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
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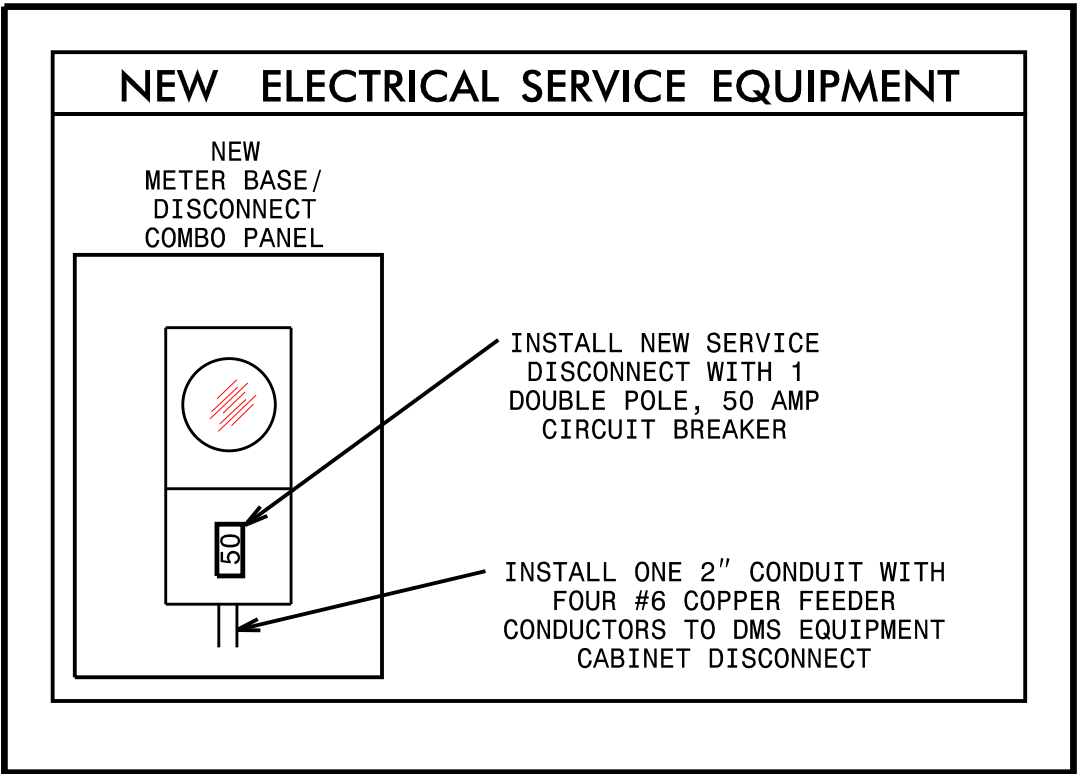
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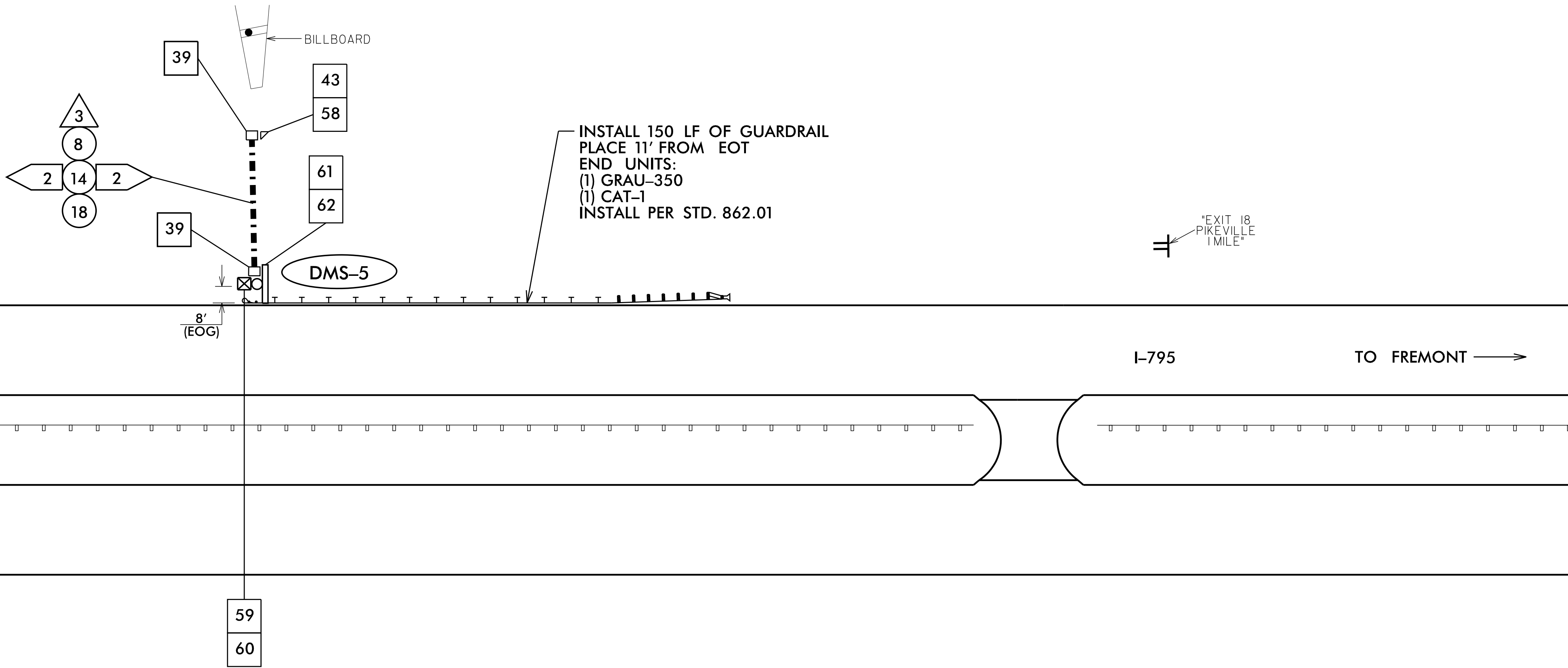
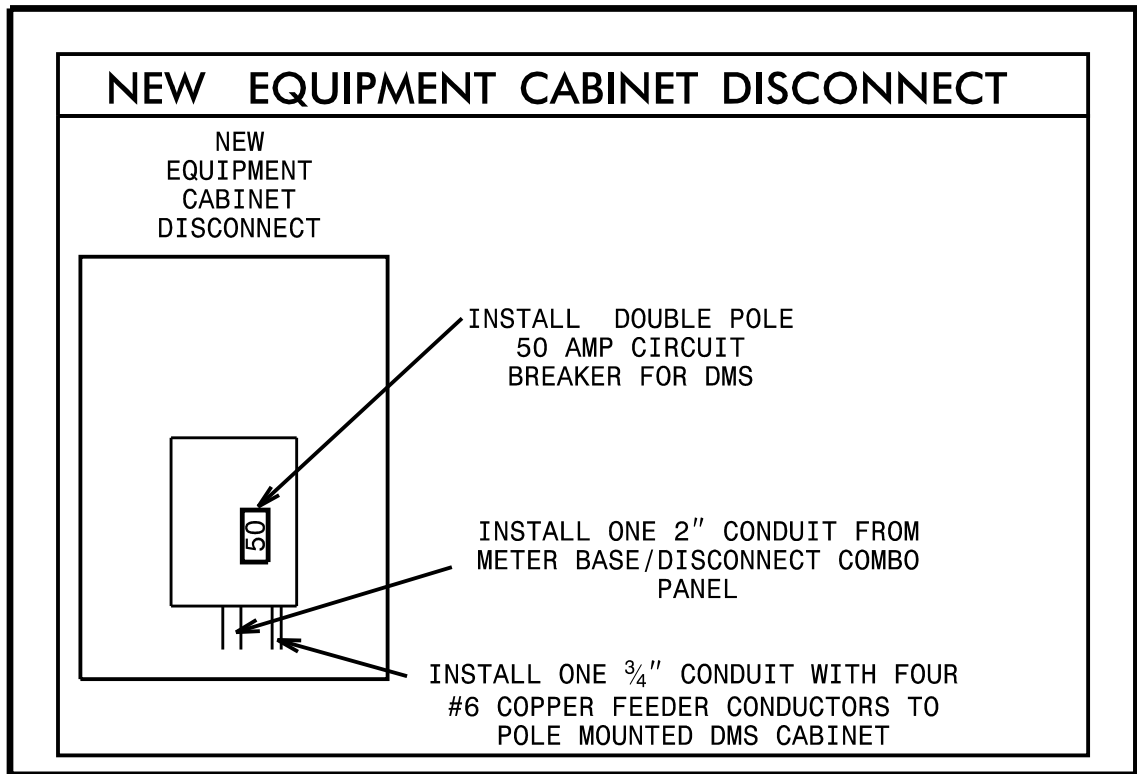
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| <div>Plans Prepared For: DIVISION OF TRANSPORTATION STATE OF NORTH CAROLINA 750 N. Greenfield Place, Garner, NC 27529</div> | R-2554D (US 70-GOLDSBORO BYP) | | <div>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEVIN W. SMITH 030472</div> | |
| | DMS-4 PROFILE | | | |
| | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | | |
| | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | |
| SCALE 0 | REVISIONS | INIT. | DATE | DocuSigned by: Kevin W. Smith 3/12/2015 |
| CADD Filename: | | | | |

DMS-5 GPS COORDINATES
35.510941, -77.997431

DRAWING 1



DRAWING 2



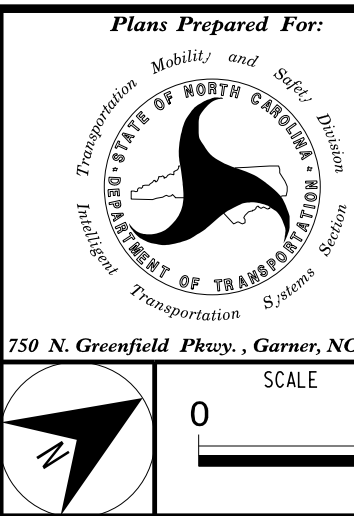
NOTES:

1. MAINTAIN A MINIMUM OF SIX (6) FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTACT DIVISION INCIDENT MANAGEMENT ENGINEER TO CONFIRM LOCATION OF DMS.
3. INSTALL NEW GROUNDING SYSTEM AS SHOWN ON SHEET ITS-8 AND AS DESCRIBED IN THE PROJECT SPECIAL PROVISIONS.
4. INSTALL NEW DMS, WALKWAY, LADDER AND POLE MOUNTED CABINET ON NEW DMS STRUCTURE.
5. CONTACT TONY GRANTHAM WITH TRI-COUNTY ELECTRIC AT 800-548-4869 TO OBTAIN POWER TO ELECTRICAL SERVICE.

NOTE:
ELECTRICAL SERVICE DETAILS AND CONSTRUCTION METHODS DEPICT FIELD CONDITIONS AT THE TIME OF DESIGN. CONTRACTOR TO VERIFY ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION AND OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ANY CHANGES.

Kimley»Horn

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Raleigh, NC 27636
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Fax: (919) 677-2050



R-2554D (US 70-GOLDSBORO BYP)
DMS-5

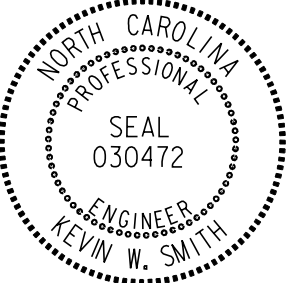
DIVISION 2&4 LENOIR & WAYNE COUNTIES

PLAN DATE: MARCH 2015 REVIEWED BY:

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

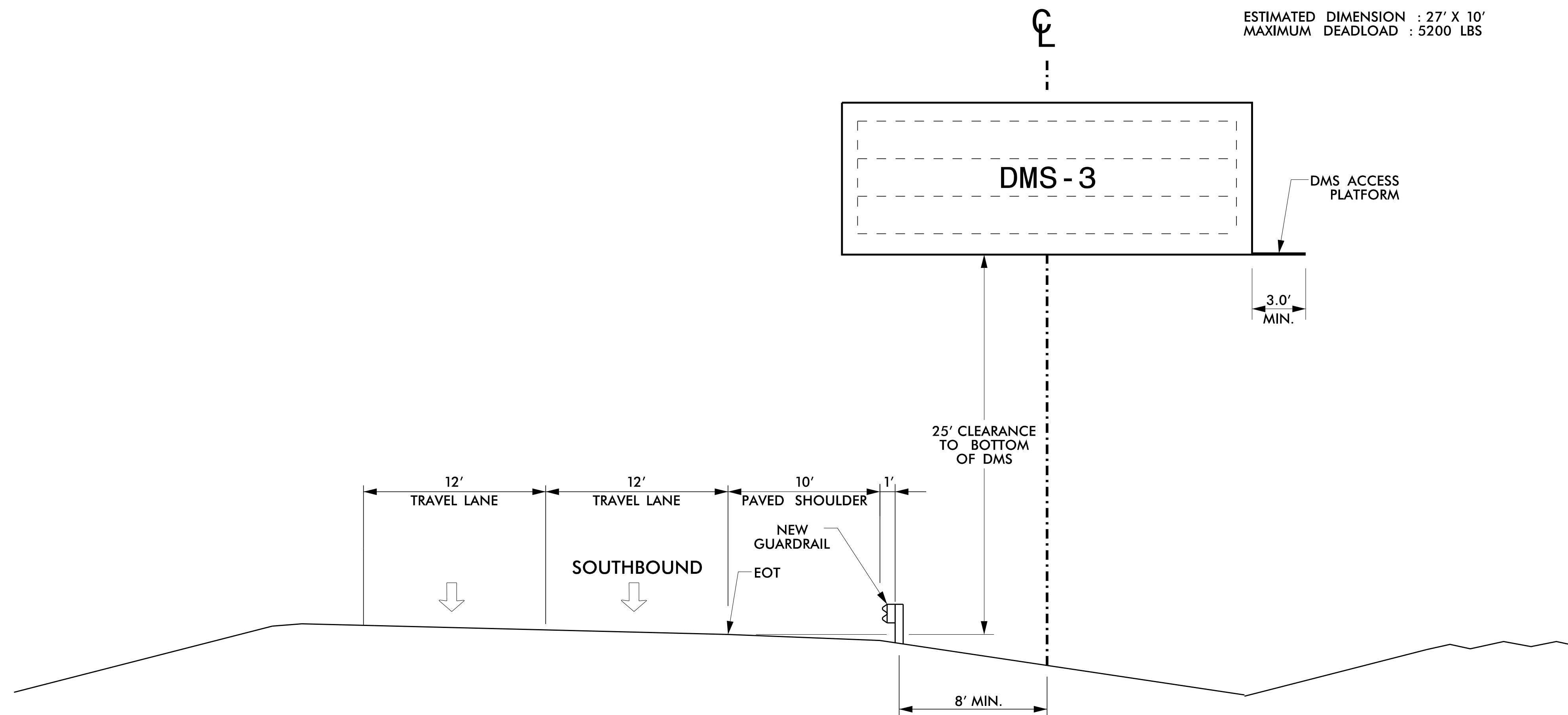
REVISIONS INIT. DATE

SEAL



DocuSigned by:
Kevin W. Smith 3/12/2015

CADD Filename:






NOTES

1. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
2. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD). START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER-TO-CENTER TYPICAL SPACING.
3. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
4. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
5. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. 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.
7. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

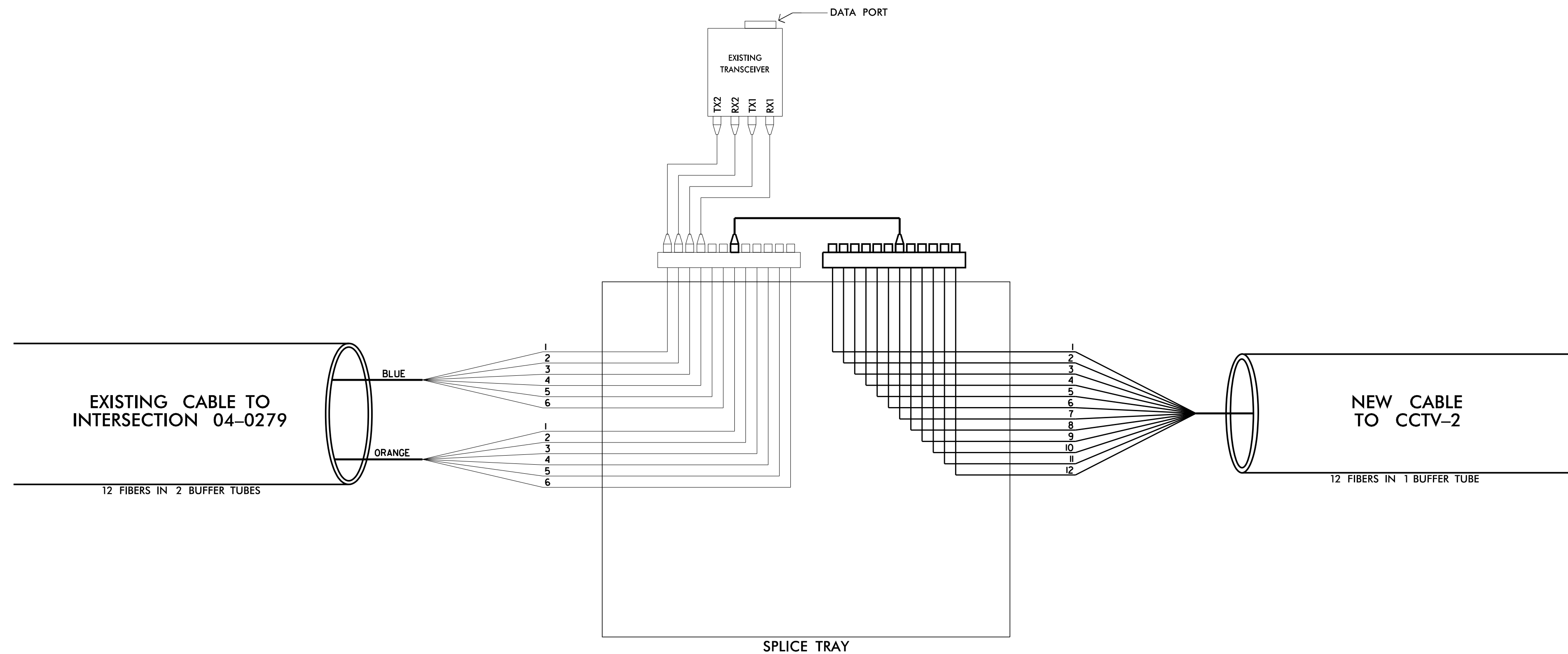
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| <p>Plans Prepared For:</p>  <p>TRANSPORTATION STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p> <p>750 N. Greenfield Pkwy., Garner, NC 27559</p> | <h1>R-2554D (US 70-GOLDSBORO BYP)</h1> <h2>DMS-3 PROFILE</h2> | <p>SEAL</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------|-------------------------|-----------------------|--------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">DIVISION 2&4</th> <th style="width: 50%;">LENOIR & WAYNE COUNTIES</th> </tr> <tr> <td style="padding: 5px;">PLAN DATE: MARCH 2015</td> <td style="padding: 5px;">REVIEWED BY:</td> </tr> <tr> <td style="padding: 5px;">PREPARED BY: J. CROSS</td> <td style="padding: 5px;">REVIEWED BY: K. SMITH</td> </tr> </table> | | | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | PLAN DATE: MARCH 2015 | REVIEWED BY: | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SCALE</p>  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td><td></td></tr> </tbody> </table> | | REVISONS | INIT. | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p align="right">DocuSigned by: Kevin Smith e0d9c2d9ca4a49e</p> <p>CADD Filename: _____</p> <p align="right"><u>3/12/2015</u> DATE</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

04-1336
NC-581 AT
WALMART ENTRANCE



| | |
|-----------------------------|--|
| COLOR CODE TIA/EIA 598-C | <u>LEGEND</u> |
| (1) BLUE | ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION. |
| (2) ORANGE | X - NEW FUSION SPLICE INDIVIDUAL FIBER |
| (3) GREEN | O - EXISTING FUSION SPLICE INDIVIDUAL FIBER |
| (4) BROWN | <u>BUFFER TUBE</u> SPLICE OR EXPRESS ENTIRE BUFFER TUBE |
| (5) SLATE | |
| (6) WHITE | |
| (7) RED | |
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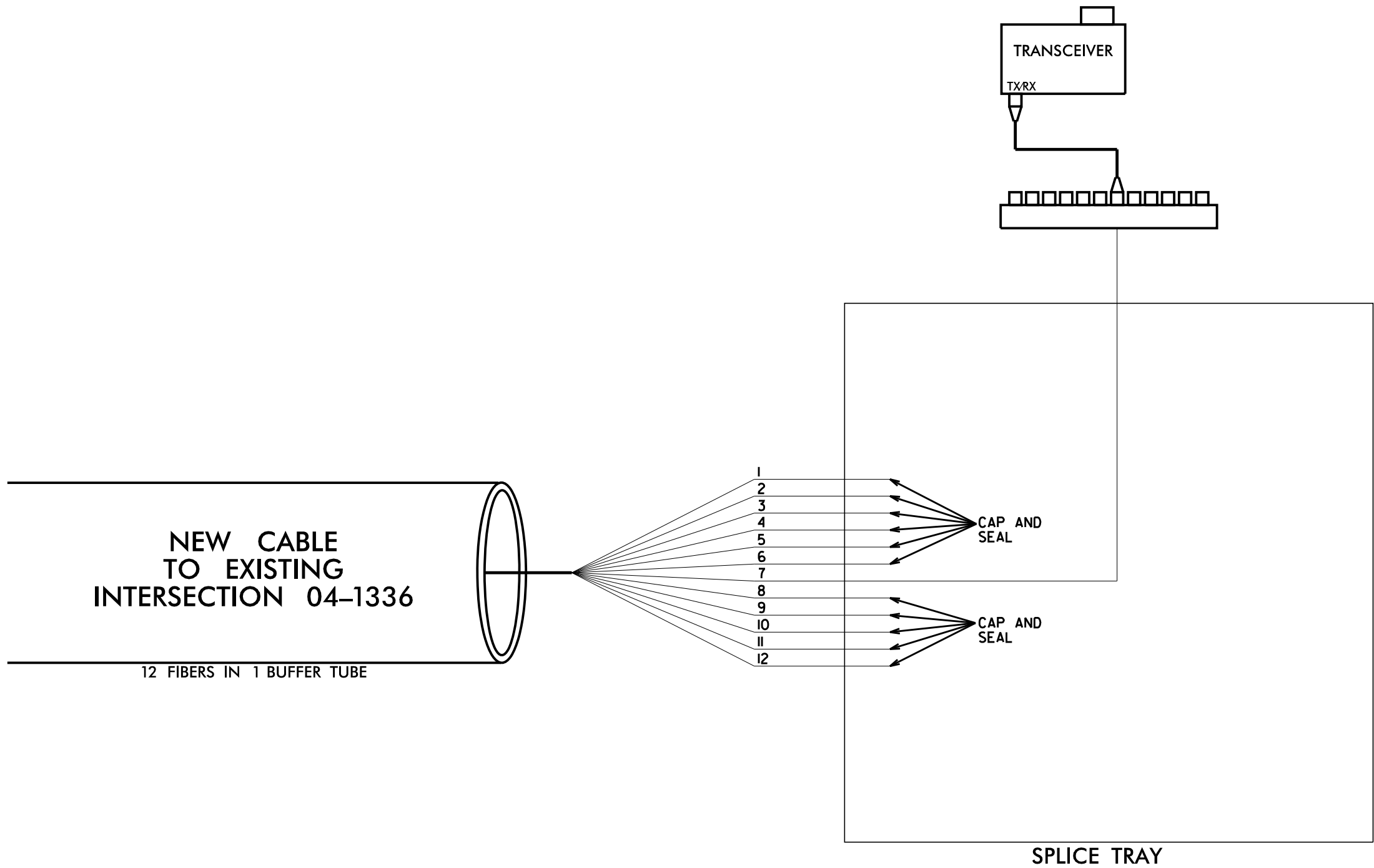
Kimley»Horn

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P.O. Box 33068
Raleigh, NC 27636
Tel: (919) 677-2000
Fax: (919) 677-2050**

| <p>Plans Prepared For:</p>  <p style="text-align: center; font-size: small;">TRANSPORTATION DIVISION STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION TRANSPORTATION & SAFETY DIVISION</p> | <h2 style="margin: 0;">R-2554D (US 70-GOLDSBORO BYP)</h2> <h1 style="margin: 10px 0 0 0;">SPlicing DETAIL</h1> | <p>SEAL</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--------------|-------------------------|-----------------------|--------------|-----------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| | <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;"> <p style="margin: 0;">DocuSigned by:</p> <p style="margin: 0;"><u>Kevin Smith</u></p> <p style="margin: 0; font-size: small;">or his SIGNATURE</p> </div> <div style="width: 35%; text-align: right;"> <p style="margin: 0;">3/12/2015</p> <p style="margin: 0; font-size: small;">DATE</p> </div> </div> <p style="margin-top: 10px;">CADD Filename:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CCTV-2
US-70 BYPASS
AT NC-581

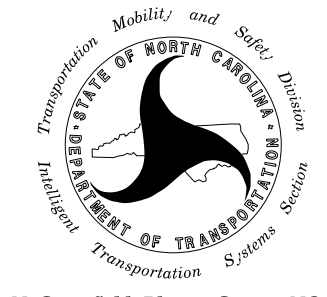
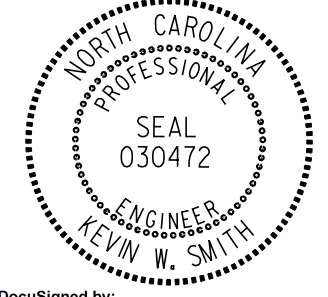
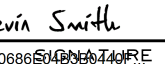
| COLOR CODE TIA/EIA 598-C | | LEGEND |
|-----------------------------|-------------|---|
| (1) BLUE | (7) RED | ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION. X - NEW FUSION SPLICE INDIVIDUAL FIBER O - EXISTING FUSION SPLICE INDIVIDUAL FIBER [BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE |
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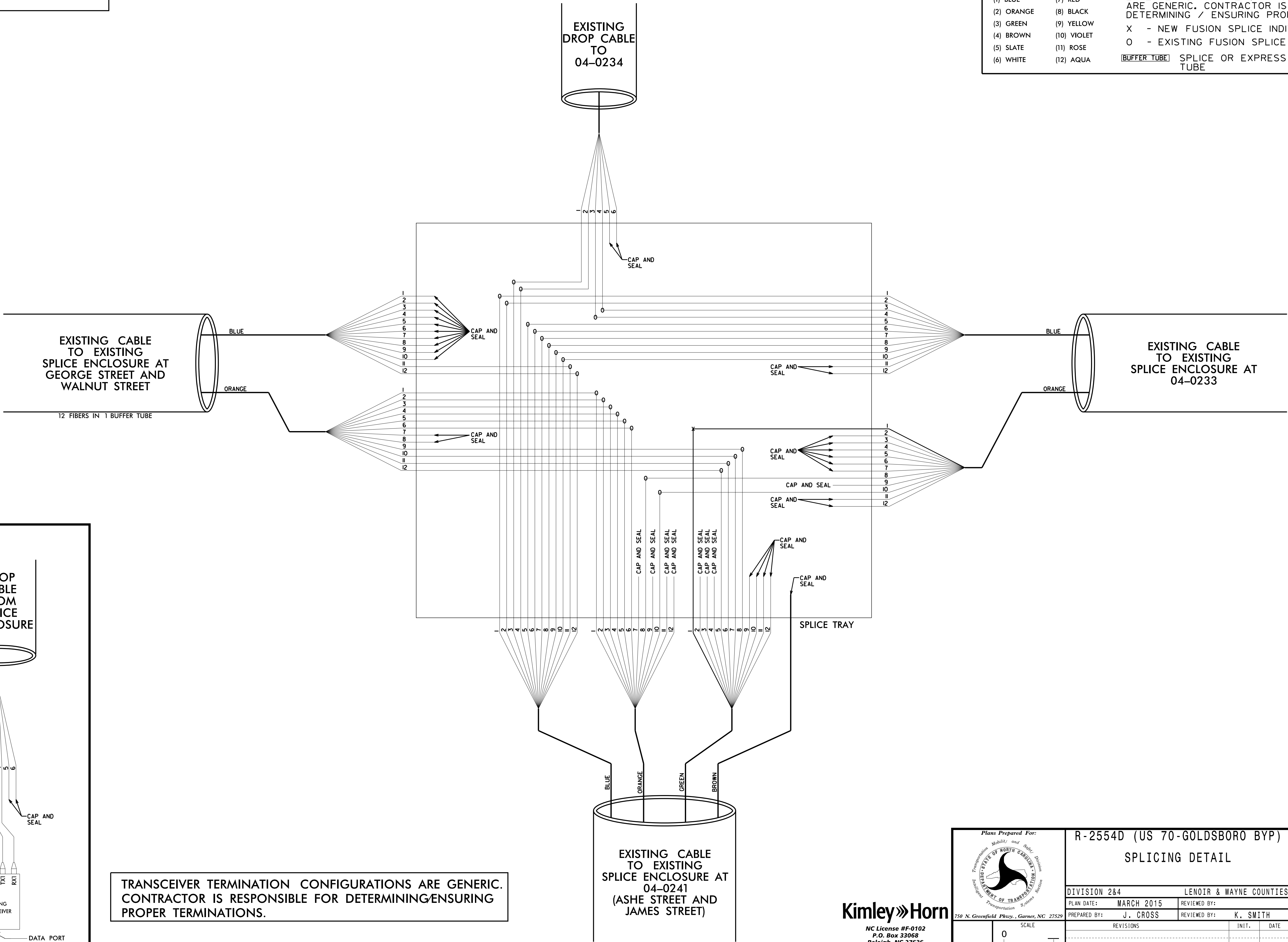
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| | | | | |
|--|-------------------------------|-------------------------|---|------|
| <div>Plans Prepared For:  750 N. Greenfield Parkway, Garner, NC 27529</div> | R-2554D (US 70-GOLDSBORO BYP) | | <div>SEAL  DocuSigned by:  3/12/2015 CADD Filename:</div> | |
| | SPlicing DETAIL | | | |
| | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | | |
| PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | REVISIONS | INIT. | DATE |
| SCALE 0 | | | | |

EXISTING SPLICE ENCLOSURE
AT 04-0234 (ASH STREET AT
GEORGE STREET)

| COLOR CODE TIA/EIA 598-C | | LEGEND | |
|-----------------------------|-------------|--|--|
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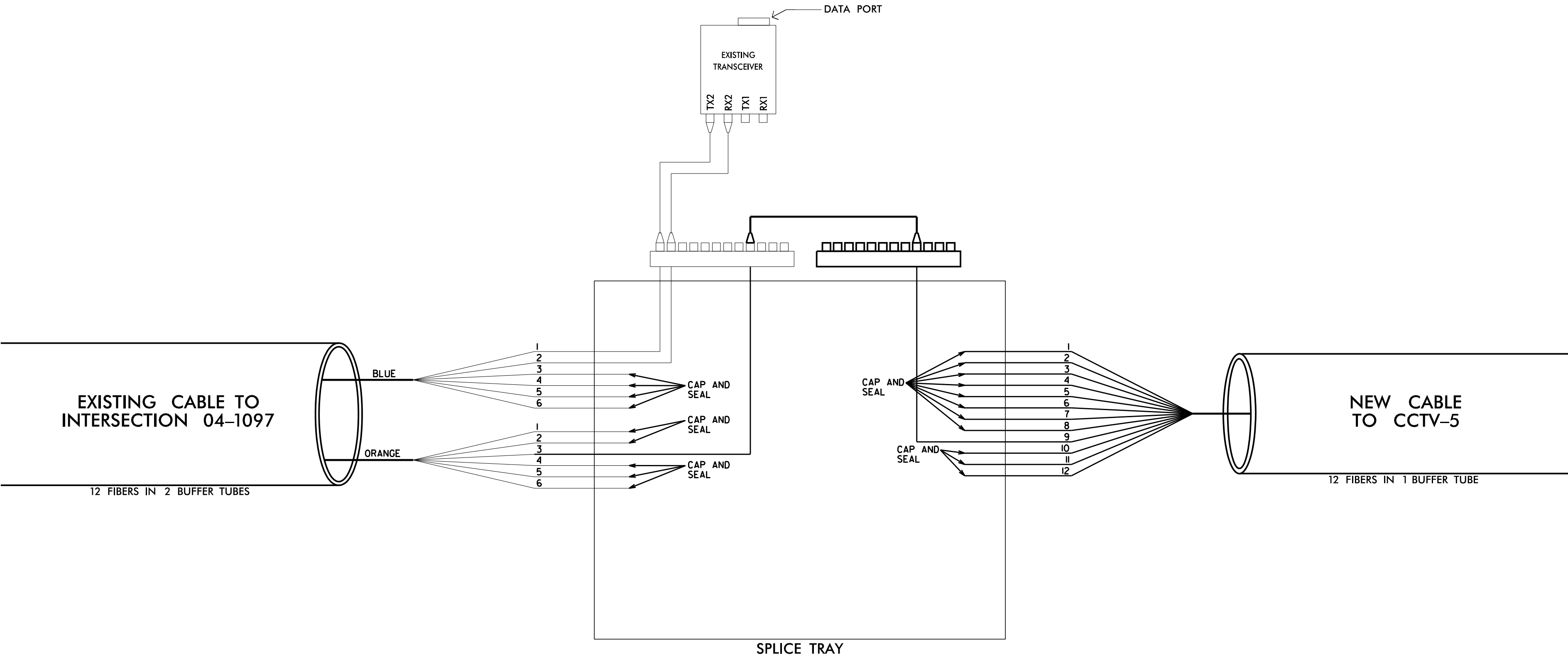
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| <div>Plans Prepared For: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 750 N. Greenfield Parkway, Garner, NC 27529</div> | R-2554D (US 70-GOLDSBORO BYP) | | <div>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEVIN W. SMITH SEAL 030472</div> |
| | SPlicing DETAIL | | |
| | DIVISION 2&4 | LENOIR & WAYNE COUNTIES | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | |
| | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | |
| REVISIONS | | INIT. | DATE |
| 0 | | | |
| SCALE | | DocuSigned by: Kevin Smith 3/12/2015 CADD Filename: | |

04-1356
WAYNE MEMORIAL DRIVE AT
US-70 BYPASS EASTBOUND RAMP

| COLOR CODE | | LEGEND |
|------------|-------------|---|
| TIA/EIA | 598-C | |
| (1) BLUE | (7) RED | ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION. X - NEW FUSION SPLICE INDIVIDUAL FIBER O - EXISTING FUSION SPLICE INDIVIDUAL FIBER [BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE |
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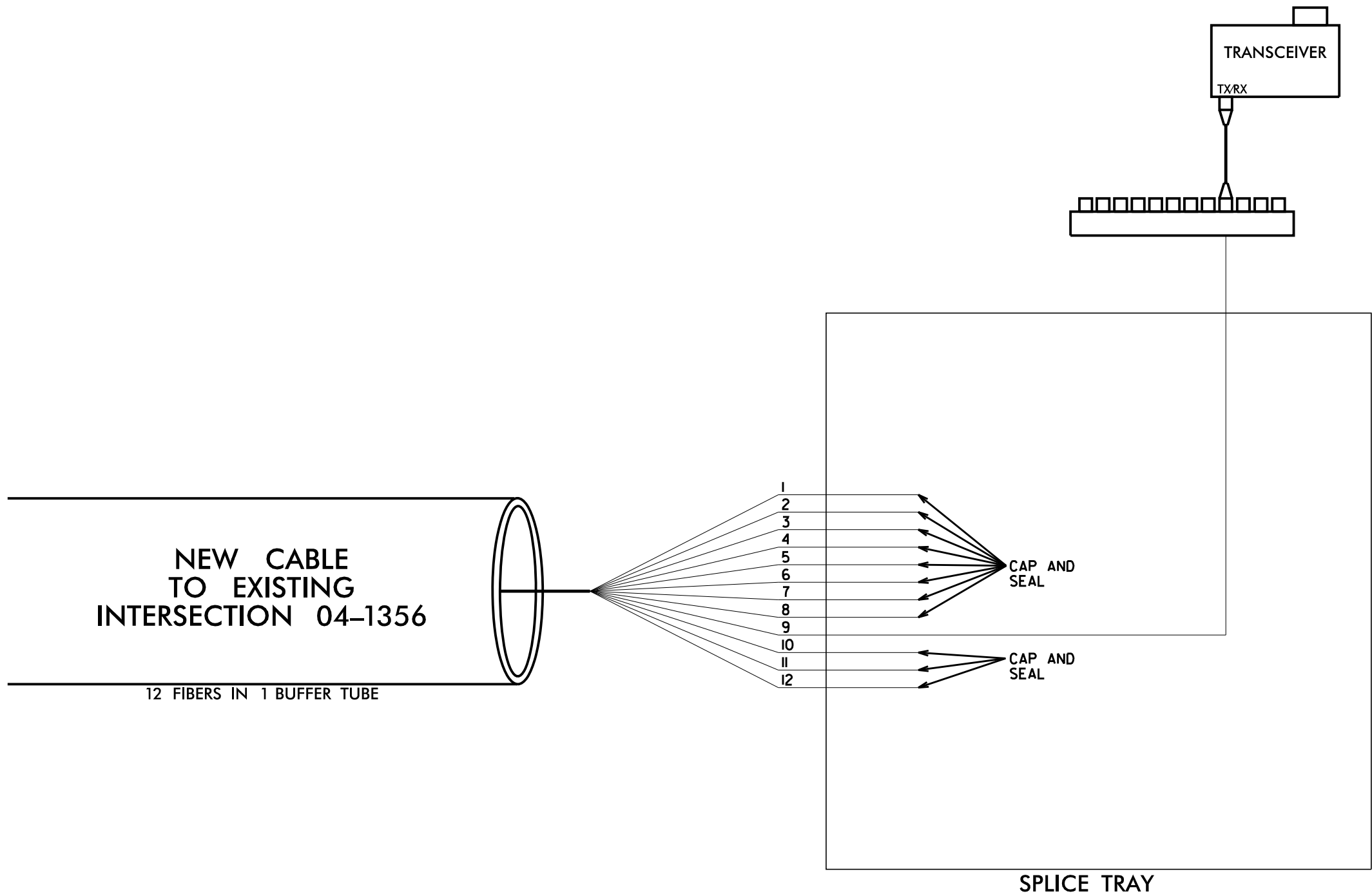
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| <div>Plans Prepared For: 750 N. Greenfield Parkway, Garner, NC 27529</div> | R-2554D (US 70-GOLDSBORO BYP) | | SEAL | | | |
| | SPlicing DETAIL | | | | | |
| | DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | | |
| | PLAN DATE: MARCH 2015 | | REVIEWED BY: K. SMITH | | | |
| <div>SCALE 0 </div> | PREPARED BY: J. CROSS | | REVIEWED BY: K. SMITH | | | |
| | REVISIONS | | INIT. DATE | | | |
| | | | | | | |
| | | | | | | |
| DocuSigned by: Kevin W. Smith 03/12/2015 | | | DATE | | | |
| CADD Filename: | | | | | | |

CCTV-5
US-70 BYPASS AT
WAYNE MEMORIAL DRIVE

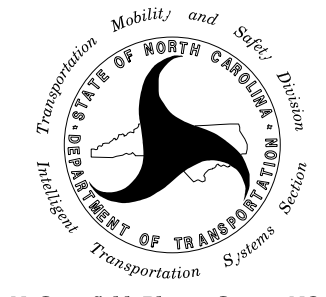

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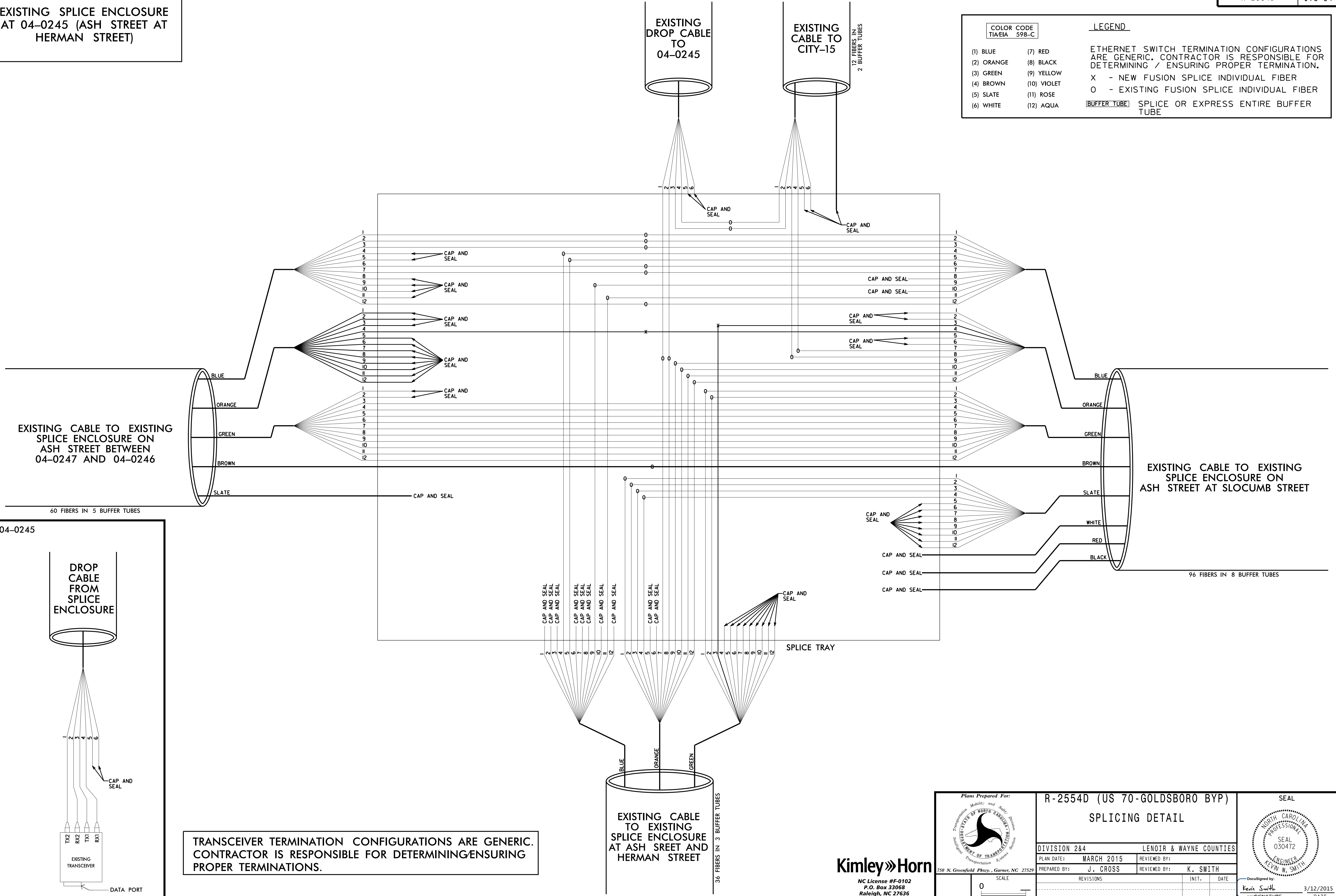
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|---|--|--|--|---|--|
| Plans Prepared For:  750 N. Greenfield Parkway, Garner, NC 27529 | | R-2554D (US 70-GOLDSBORO BYP) SPLICING DETAIL | | SEAL  | |
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | DocuSigned by: Kevin W. Smith 3/12/2015 | |
| PLAN DATE: MARCH 2015 | | REVIEWED BY: | | DATE | |
| PREPARED BY: J. CROSS | | REVIEWED BY: K. SMITH | | DATE | |
| REVISIONS | | INIT. | | DATE | |
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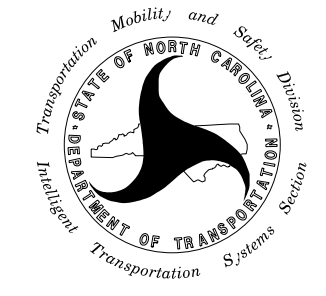
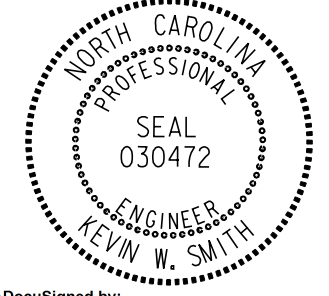
EXISTING SPLICE ENCLOSURE
AT 04-0245 (ASH STREET AT
HERMAN STREET)

| COLOR CODE TIA/EIA 598-C | | LEGEND |
|-----------------------------|-------------|---|
| (1) BLUE | (7) RED | ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION. X - NEW FUSION SPLICE INDIVIDUAL FIBER O - EXISTING FUSION SPLICE INDIVIDUAL FIBER [BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE |
| (2) ORANGE | (8) BLACK | |
| (3) GREEN | (9) YELLOW | |
| (4) BROWN | (10) VIOLET | |
| (5) SLATE | (11) ROSE | |
| (6) WHITE | (12) AQUA | |



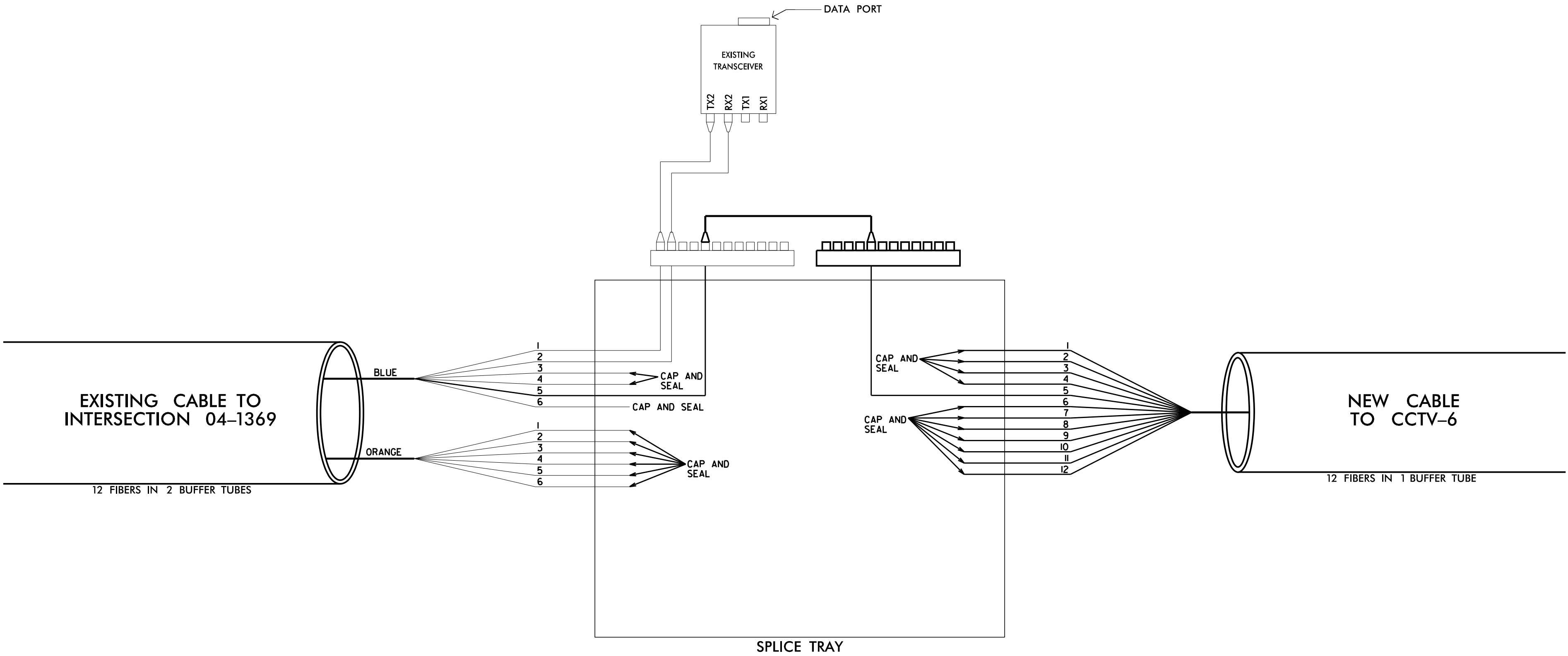
3/1/2015 6:52:52 PM K:\RAL\TPTD\ITS\01036269 - R-2554D\Plans\R-2554D-ITS.dgn,34.spic.dgn

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Tel: (919) 677-2000
Fax: (919) 677-2050

| | | | | |
|--|-------------------------------|-----------------------|---|--|
|  750 N. Greenfield Parkway, Garner, NC 27529 | R-2554D (US 70-GOLDSBORO BYP) | | SEAL | |
| | SPlicing DETAIL | |  | |
| | DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | |
| | PLAN DATE: MARCH 2015 | REVIEWED BY: | INIT. DATE | |
| | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH | DATE | |
| REVISIONS | | INIT. DATE | | |
| 0 | | 0 | | |
| SCALE | | DATE | | |
| 0 | | 3/12/2015 | | |
| DocuSign by: Kevin W. Smith | | CADD Filename: | | |

04-1368
US-13 (BERKLEY BOULEVARD) AT
US-70 BYPASS WESTBOUND RAMPS

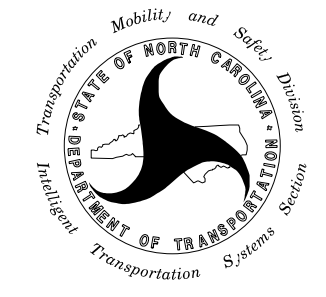
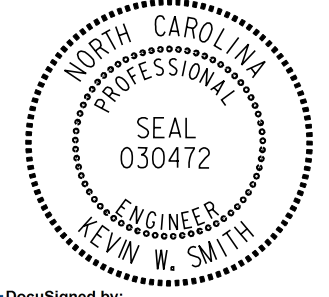
| COLOR CODE | | LEGEND |
|------------|-------------|--|
| TIA/EIA | 598-C | |
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| (2) ORANGE | (8) BLACK | |
| (3) GREEN | (9) YELLOW | X - NEW FUSION SPLICE INDIVIDUAL FIBER |
| (4) BROWN | (10) VIOLET | O - EXISTING FUSION SPLICE INDIVIDUAL FIBER |
| (5) SLATE | (11) ROSE | [BUFFER TUBE] SPLICE OR EXPRESS ENTIRE BUFFER TUBE |
| (6) WHITE | (12) AQUA | |



TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING PROPER TERMINATIONS.

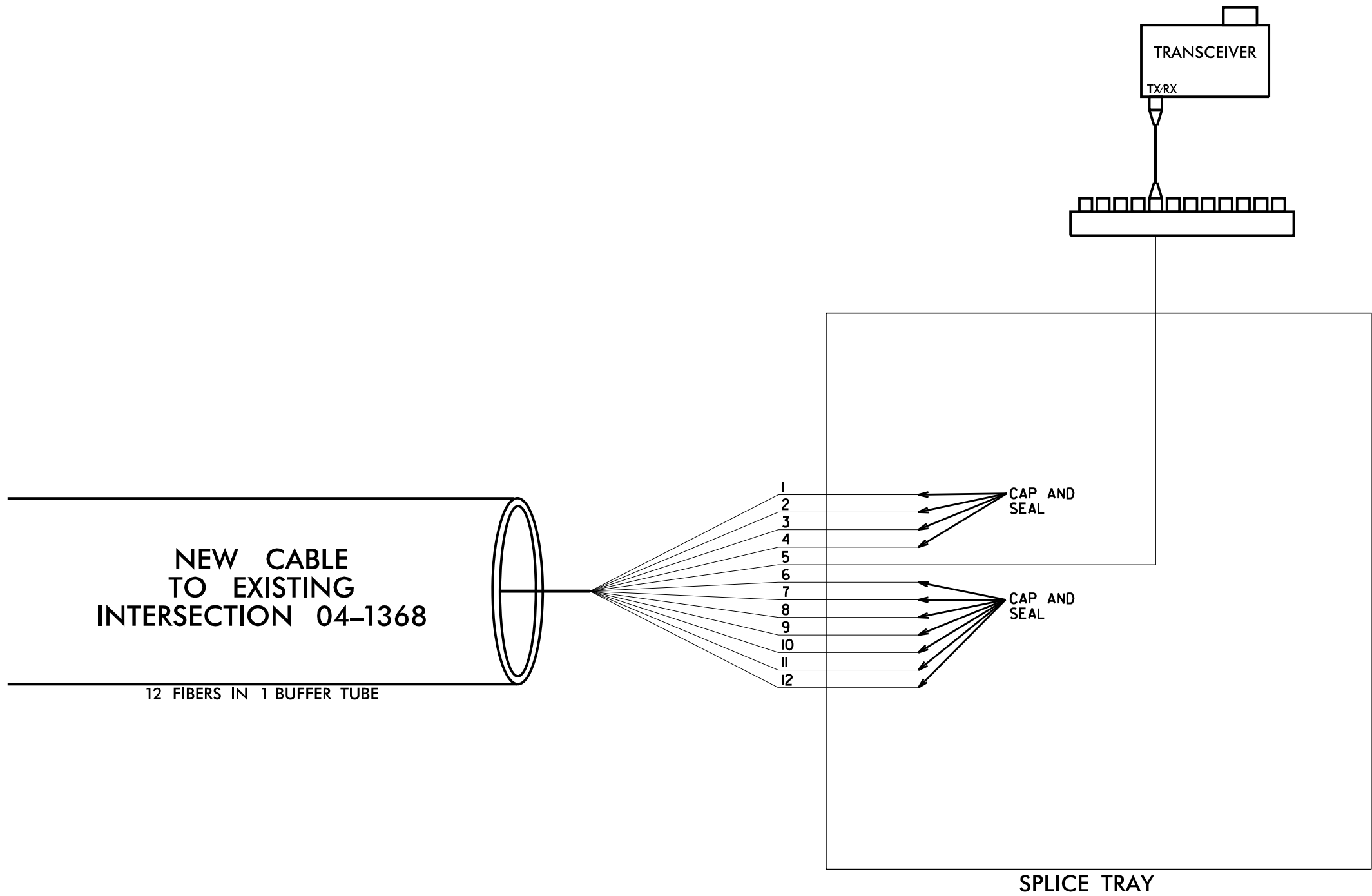
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| | | | | |
|---|--|--|--|--|
| Plans Prepared For:  750 N. Greenfield Parkway, Garner, NC 27529 | | R-2554D (US 70-GOLDSBORO BYP) SPlicing DETAIL | | SEAL  Kevin W. Smith 3/12/2015 |
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | |
| PLAN DATE: MARCH 2015 | | REVIEWED BY: K. SMITH | | DocuSigned by: Kevin W. Smith 3/12/2015 |
| PREPARED BY: J. CROSS | | REVIEWED BY: K. SMITH | | |
| REVISIONS | | INIT. | | CADD Filename: |
| 0 | | DATE | | |

CCTV-6
US-70 BYPASS AT
US-13 (BERKLEY BOULEVARD)

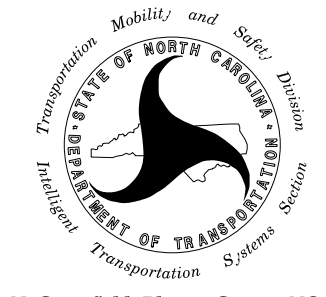
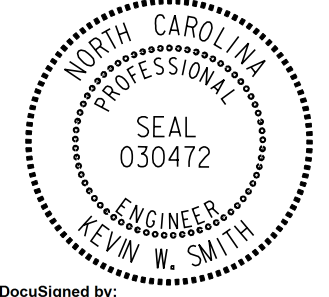
| COLOR CODE | | LEGEND |
|------------|-------------|---|
| TIA/EIA | 598-C | |
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| (2) ORANGE | (8) BLACK | |
| (3) GREEN | (9) YELLOW | |
| (4) BROWN | (10) VIOLET | |
| (5) SLATE | (11) ROSE | |
| (6) WHITE | (12) AQUA | |



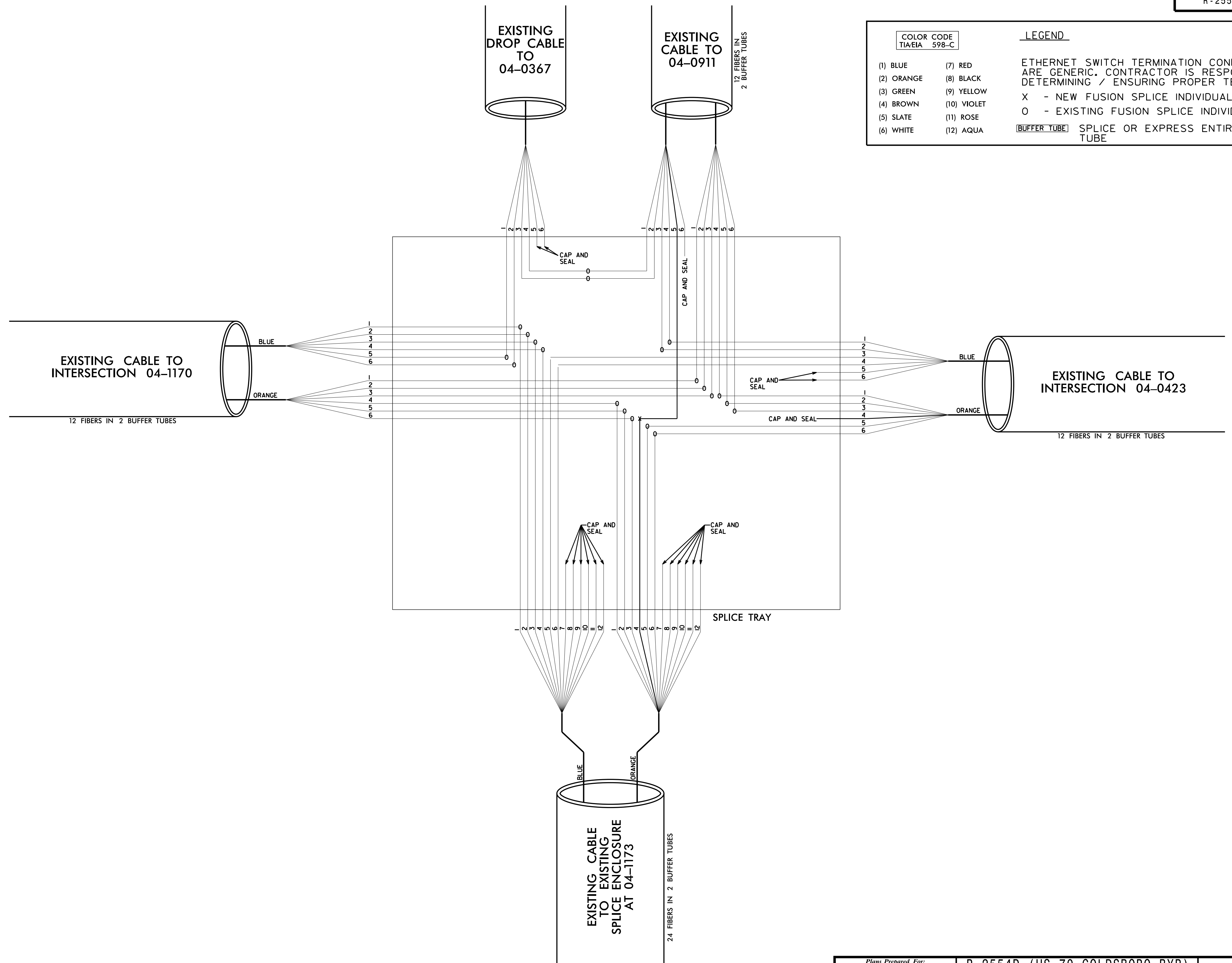
TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING PROPER TERMINATIONS.

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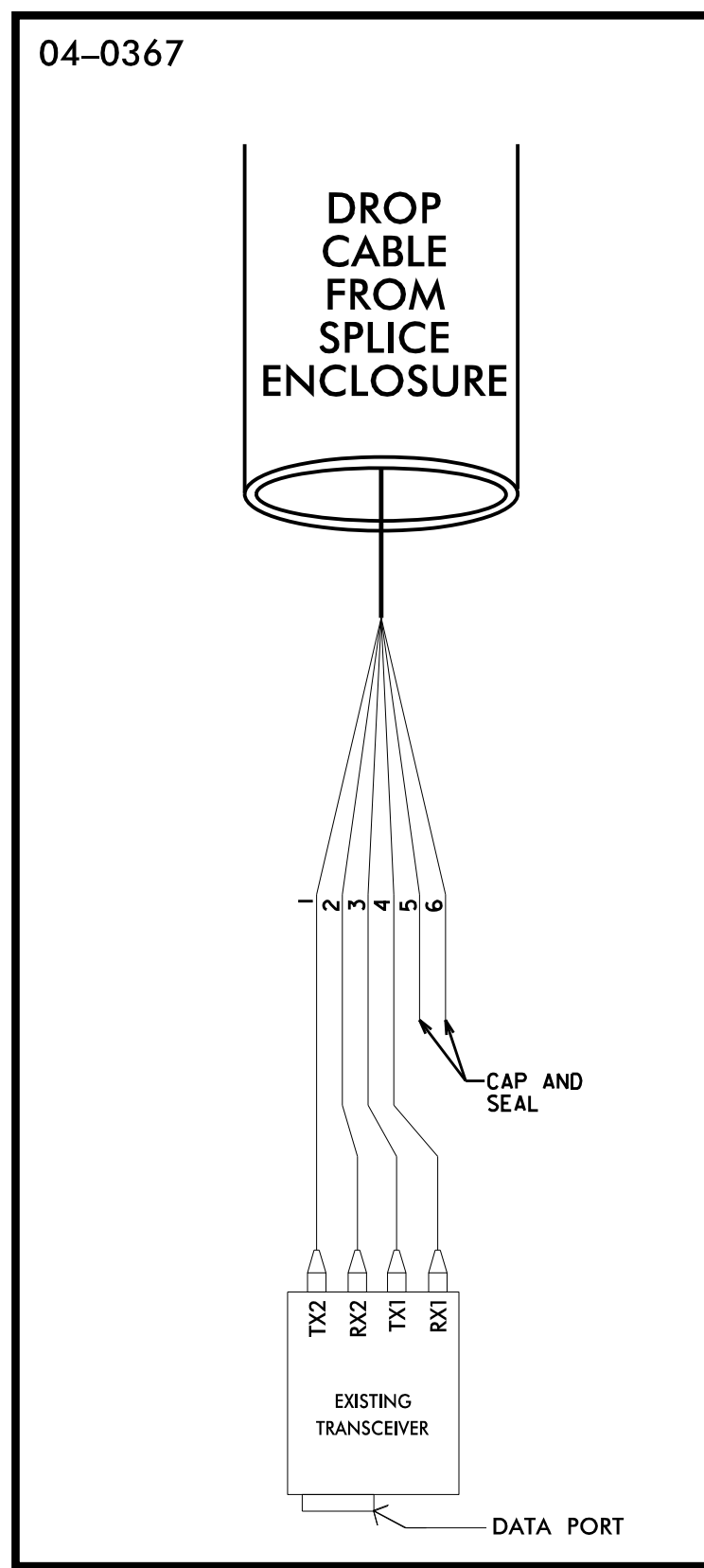
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Fax: (919) 677-2050

| | | | | | |
|---|--|--|--|---|--|
| Plans Prepared For:  750 N. Greenfield Pkwy., Garner, NC 27529 | | R-2554D (US 70-GOLDSBORO BYP) SPlicing DETAIL | | SEAL  | |
| DIVISION 2&4 | | LENOIR & WAYNE COUNTIES | | DocuSigned by: Kevin Smith 3/12/2015 | |
| PLAN DATE: MARCH 2015 | | REVIEWED BY: K. SMITH | | DATE | |
| PREPARED BY: J. CROSS | | REVIEWED BY: K. SMITH | | DATE | |
| REVISIONS | | INIT. | | DATE | |
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EXISTING SPLICE ENCLOSURE
AT 04-0367 (NEW HOPE ROAD
AT US-13 (BERKLEY BOULEVARD))







TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC.
CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING
PROPER TERMINATIONS.



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| <p>Plans Prepared For:</p>  <p>750 N. Greenfield Pkwy., Garner, NC 27559</p> | <p>R-2554D (US 70-GOLDSBORO BYP)</p> <p>SPlicing DETAIL</p> | <p>SEAL</p>  | | | | | | | | | | | | | | | | | | |
|---|--|--|-----------|-------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>DIVISION 2&4 LENOIR & WAYNE COUNTIES</p> | | | | | | | | | | | | | | | | | | | | |
| <p>PLAN DATE: MARCH 2015</p> | <p>REVIEWED BY:</p> | | | | | | | | | | | | | | | | | | | |
| <p>PREPARED BY: J. CROSS</p> | <p>REVIEWED BY: K. SMITH</p> | | | | | | | | | | | | | | | | | | | |
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| <p>DocuSigned by:  Kevin W. Smith 3/12/2015</p> <p>_____ CADD File name: DATE</p> | | | | | | | | | | | | | | | | | | | | |

EXISTING SPLICE ENCLOSURE
AT ASH STREET AT
CENTER STREET

EXISTING CABLE TO
IT ROOM

144 FIBERS IN
12 BUFFER TUBES

COLOR CODE
TIA/EIA 598-C

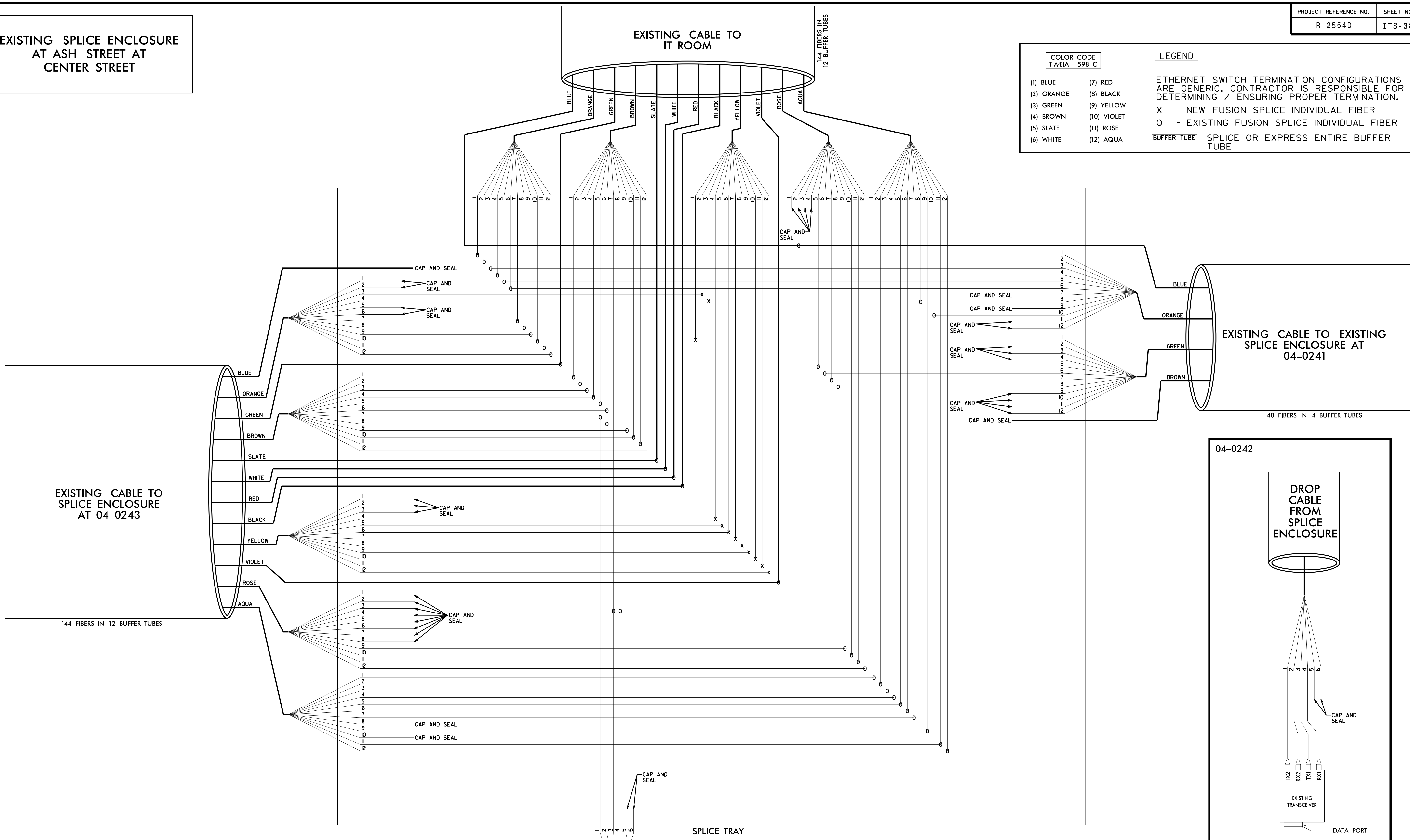
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|------------|-------------|
| (1) BLUE | (7) RED |
| (2) ORANGE | (8) BLACK |
| (3) GREEN | (9) YELLOW |
| (4) BROWN | (10) VIOLET |
| (5) SLATE | (11) ROSE |
| (6) WHITE | (12) AQUA |

LEGEND

ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.

X - NEW FUSION SPLICE INDIVIDUAL FIBER
O - EXISTING FUSION SPLICE INDIVIDUAL FIBER

BUFFER TUBE SPLICE OR EXPRESS ENTIRE BUFFER TUBE



EXISTING CABLE TO
SPLICE ENCLOSURE
AT 04-0243

EXISTING CABLE TO EXISTING
SPLICE ENCLOSURE AT
04-0241

48 FIBERS IN 4 BUFFER TUBES

04-0242

DROP
CABLE
FROM
SPLICE
ENCLOSURE

1 2 3 4 5 6 7 8 9 10 11 12

CAP AND
SEAL

TX2
RX2
TX1
RX1

EXISTING
TRANSCIVER

DATA PORT

TRANSCEIVER TERMINATION CONFIGURATIONS ARE GENERIC.
CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING
PROPER TERMINATIONS.

EXISTING
DROP CABLE
TO
04-0242

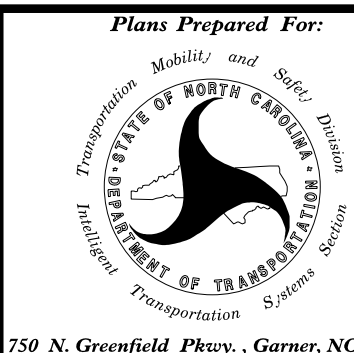
SPLICE TRAY

CAP AND
SEAL

1 2 3 4 5 6

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R-2554D (US 70-GOLDSBORO BYP)
SPLICING DETAIL

DIVISION 2&4 LENOIR & WAYNE COUNTIES

PLAN DATE: MARCH 2015

REVIEWED BY:

PREPARED BY: J. CROSS

REVIEWED BY: K. SMITH

REVISIONS

INIT.

DATE

DocuSigned by:

Kevin W. Smith

3/12/2015

DATE

CADD Filename:

IT ROOM

EXISTING CABLE TO
EXISTING SPLICE ENCLOSURE
AT ASH STREET AT
CENTER STREET

144 FIBERS IN 12 BUFFER TUBES

EXISTING FIBER
INTERCONNECT
CENTER

BLUE
ORANGE
GREEN
BROWN
SLATE
WHITE
RED
BLACK
YELLOW
VIOLET
ROSE
AQUA

EXISTING CABLE
TO TRAFFIC
OPERATIONS CENTER

12 FIBERS IN 1 BUFFER TUBE

COLOR CODE
TIA/EIA 598-C

LEGEND

| | |
|------------|-------------|
| (1) BLUE | (7) RED |
| (2) ORANGE | (8) BLACK |
| (3) GREEN | (9) YELLOW |
| (4) BROWN | (10) VIOLET |
| (5) SLATE | (11) ROSE |
| (6) WHITE | (12) AQUA |

ETHERNET SWITCH TERMINATION CONFIGURATIONS
ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR
DETERMINING / ENSURING PROPER TERMINATION.

X - NEW FUSION SPLICED INDIVIDUAL FIBER
O - EXISTING FUSION SPLICED INDIVIDUAL FIBER

[BUFFER TUBE] SPLICED OR EXPRESS ENTIRE BUFFER
TUBE

- - NEW CONNECTION
- ⊗ - EXISTING CONNECTION
- - OPEN CONNECTION

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| |
|-------------------------------|
| R-2554D (US 70-GOLDSBORO BYP) |
| SPLICING DETAIL |

DIVISION 2&4 LENOIR & WAYNE COUNTIES

| | | |
|------------|------------|--------------|
| PLAN DATE: | MARCH 2015 | REVIEWED BY: |
|------------|------------|--------------|

| | | |
|----|-----------------------|-----------------------|
| 29 | PREPARED BY: J. CROSS | REVIEWED BY: K. SMITH |
|----|-----------------------|-----------------------|

| REVISIONS | INIT. | DATE |
|-----------|-------|------|
|-----------|-------|------|

[illegible]

REAL

A circular professional engineer seal for Kevin W. Smith, North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. The inner circle contains the text "PROFESSIONAL" at the top, "SEAL" in the center, "030472" below "SEAL", and "KEVIN W. SMITH" at the bottom. The seal is surrounded by a dotted border.

DocuSigned by:

| | |
|-------------|-----------|
| Kevin Smith | 3/12/2015 |
| SIGNATURE | DATE |

DD Filename:

FIBER INTERCONNECT CENTER ALLOCATION TABLES

IT ROOM

| CABLE 22E | | BUFFER TUBE | | | | | | | | | | | |
|------------|--------|-------------|------------|------------|------------|-------|-------|-------|-------|----------------|----------------|----------------------------|---------|
| 144 FIBERS | | BLUE | ORANGE | GREEN | BROWN | SLATE | WHITE | RED | BLACK | YELLOW | VIOLET | ROSE | AQUA |
| FIBER | Blue | CHANNEL 1 | CHANNEL 7 | CHANNEL 13 | CHANNEL 19 | SPARE | SPARE | SPARE | SPARE | R-2554D CCTV-2 | CAP AND SEALED | SPARE | CCTV 1 |
| | Orange | CHANNEL 1 | CHANNEL 7 | CHANNEL 13 | CHANNEL 19 | SPARE | SPARE | SPARE | SPARE | R-2554D CCTV-5 | CAP AND SEALED | SPARE | CCTV 2 |
| | Green | CHANNEL 2 | CHANNEL 8 | CHANNEL 14 | CHANNEL 20 | SPARE | SPARE | SPARE | SPARE | R-2554D CCTV-6 | CAP AND SEALED | SPARE | CCTV 3 |
| | Brown | CHANNEL 2 | CHANNEL 8 | CHANNEL 14 | CHANNEL 20 | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | SPARE | CCTV 4 |
| | Slate | CHANNEL 3 | CHANNEL 9 | CHANNEL 15 | CHANNEL 21 | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | POLICE DEPT | CCTV 5 |
| | White | CHANNEL 3 | CHANNEL 9 | CHANNEL 15 | CHANNEL 21 | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | POLICE DEPT | CCTV 6 |
| | Red | CHANNEL 4 | CHANNEL 10 | CHANNEL 16 | CHANNEL 22 | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | POLICE DEPT | CCTV 7 |
| | Black | CHANNEL 4 | CHANNEL 10 | CHANNEL 16 | CHANNEL 22 | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | POLICE DEPT | CCTV 8 |
| | Yellow | CHANNEL 5 | CHANNEL 11 | CHANNEL 17 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | PUBLIC WORKS - ETHERNET | CCTV 9 |
| | Violet | CHANNEL 5 | CHANNEL 11 | CHANNEL 17 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | PUBLIC WORKS - ETHERNET | CCTV 10 |
| | Rose | CHANNEL 6 | CHANNEL 12 | CHANNEL 18 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | PUBLIC WORKS - TEST SIGNAL | CCTV 11 |
| | Aqua | CHANNEL 6 | CHANNEL 12 | CHANNEL 18 | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE | CAP AND SEALED | PUBLIC WORKS - TEST SIGNAL | CCTV 12 |

TRAFFIC OPERATIONS CENTER

| 12 FIBERS | | BUFFER TUBE BLUE |
|-----------|--------|---------------------|
| FIBER | Blue | IT ROOM |
| | Orange | IT ROOM |
| | Green | SPARE |
| | Brown | SPARE |
| | Slate | SPARE |
| | White | SPARE |
| | Red | SPARE |
| | Black | SPARE |
| | Yellow | SPARE |
| | Violet | SPARE |
| | Rose | SPARE |
| | Aqua | SPARE |

PUBLIC WORKS

| 12 FIBERS | | BUFFER TUBE | |
|-----------|--------|-------------|--------|
| | | BLUE | ORANGE |
| FIBER | Blue | ETHERNET | SPARE |
| | Orange | ETHERNET | SPARE |
| | Green | TEST SIGNAL | SPARE |
| | Brown | TEST SIGNAL | SPARE |
| | Slate | SPARE | SPARE |
| | White | SPARE | SPARE |