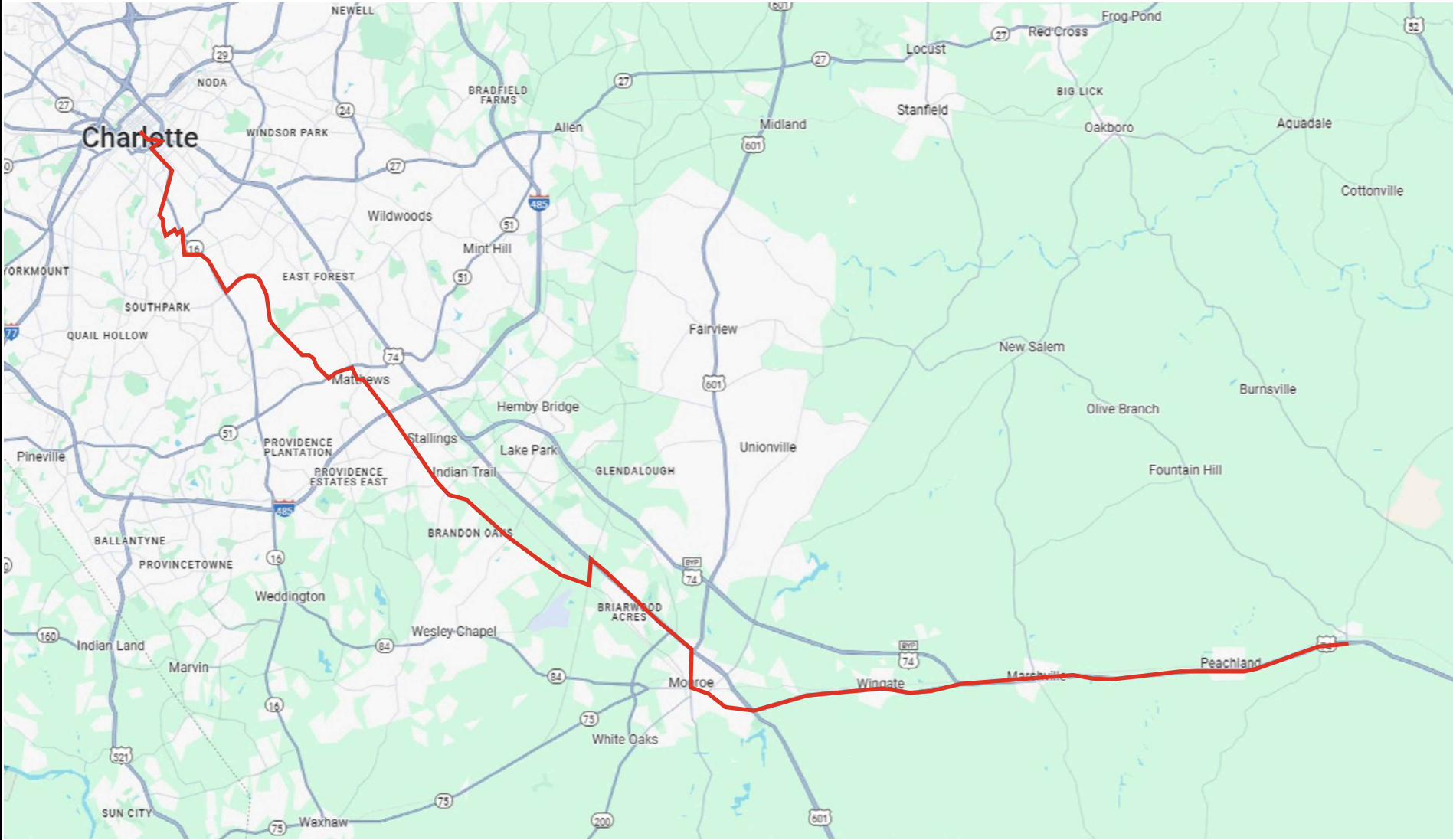


CLOSED FIBER OPTIC NETWORK INSTALLATION
 MCNC 864 UPGRADE
 S1-1 (SC1)
 MECKLENBURG, UNION, AND ANSON COUNTIES

	DRAWING INDEX
COVER	COVER SHEET
C2	LEGEND / CONTACTS
C3	BILL OF MATERIALS
C4	GENERAL NOTES
C5	TYPICAL DETAILS
C6	GROUNDING DETAILS
C7	SPLICE CLOSURE DETAILS
C8	MARKER POST DETAILS
C9-C10	TEST STATION DETAILS
C11	HH ENTRY DETAIL (NO SPLICE CASE)
C12	HH UPGRADE DETAIL (SPLICE CASE)
1-220	PLAN SHEETS
TCC1-4	TRAFFIC CONTROL PATTERNS
A1	Vault Specifications
A2-A3	Marker Post Labeling
BULLETIN	
DESIGN FIRM: UTILITY DESIGN SPECIALISTS	
UDS PM:	ROSS BRADLEY 704-685-6292 ross@utilitydesign.et
PROJECT ID:	S1-1 CHARLOTTE TO POLKTON
SITE ADDRESS:	125 N MYERS ST
CITY/STATE/ZIP:	CHARLOTTE, NC 28202
COUNTY:	MECK, UNION, ANSON
DIVISION:	10
AHJ 1:	NCDOT
AHJ 2:	CDOT
AHJ 3:	CITY OF MONROE
CONDUIT:	NA
FOC:	864ct
UTILITY OWNER:	MCNC

LOCATION MAP



NOT TO SCALE

CALL NORTH CAROLINA 811
1-800-632-4949
CALL 3 WORKING DAYS
BEFORE YOU DIG



MISC. NOTES:

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

JOB TITLE:
S1-1 CHARLOTTE TO POLKTON

JOB LOCATION:
MECKLENBURG, UNION, AND ANSON COUNTIES

DESIGNER:
RB

DATE:
4/18/2025



SCALE:

NTS

PLOT DATE:

4/18/2025


















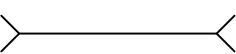

SHEET NUMBER:

COVER

FILE NAME:

New Cover.dwg

LEGEND

PROPOSED VAULT	
EXISTING VAULT	
PROPOSED VAULT UPGRADE	
CUT AND RESTORE VAULT UPGRADE	
PULL THRU EXISTING	
SPLICE POINT	
LOCATE POST	
100' COIL	
50' COIL	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
MANHOLE	
GAS METER	
GAS VALVE	
RR CONTROL BOX	
EXISTING PED	
CULVERT	
DITCH LINE	

CONTACTS

DESIGN

UTILITY DESIGN SPECIALISTS
PM: ROSS BRADLEY
CONTACT: (704) 685-6292

CONSTRUCTION CONTRACTOR
TBD

GOVERNMENT CONTACTS

NCDOT DIVISION 10
MECKLENBURG COUNTY
CONTACT: (704) 983-4400

CITY OF CHARLOTTE
600 E. 4th ST.
CHARLOTTE, NC 28202
SHANE HELMS
EMAIL: SHANE.HELMs@CHARLOTTENC.GOV
CONTACT: (980) 722-8058

MCNC

ENGINEER: MIKE WEAVER
CONTACT: (919) 819-5809
EMAIL: MWEAVER@MCNC.ORG

SAFETY

N. C. DEPARTMENT OF PUBLIC SAFETY
CONTACT: (919) 710-8885




MISC. NOTES:

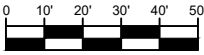
CONFIDENTIAL AND PROPRIETARY



CLIENT:	MCNC
JOB TITLE:	S1-1 CHARLOTTE TO POLKTON
JOB LOCATION:	MECKLENBURG COUNTY, NC
DESIGNER:	R.B.
DATE:	3/25/2025



Know what's below.
Call before you dig.



0 10' 20' 30' 40' 50'
SCALE: NTS

SCALE:	NTS	SHEET NUMBER:	C2
PLOT DATE:	3/25/2025		

FILE NAME: S1-1 CHARLOTTE TO POLKTON C2.dwg

SCOPE OF WORK

Install approximately 254,182' (1) 864ct FOC through existing .75" HDPE. Place (23) 30x48x36 tier 22 HH's at splice locations specified in site plans. Replace (93) existing HH's at locations specified in site plans, upgrading with 30x48x36 tier 22 HH's as per drawing detail. Perform HH clean up/pea gravel base and earth restoration. Place fiber slack loops, marker posts, and cable tags per drawing details. Perform fiber splicing and testing required per contract agreement.

BILL OF MATERIALS

[illegible]

MISC. NOTES:

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

JOB TITLE

JOB TITLE:
S1-1 CHARLOTTE TO POLKTON

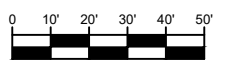
JOB LOCATION:
MECKLENBURG, UNION, AND ANSON COUNTIES

DESIGNER:
RB

DATE:
4/18/2025



Know what's below.
Call before you dig.



SCALE: NTS

SCALE:

NTS

SHEET NUMBER:

C3

PLOT DATE:

4/18/2025

FILE NAME:

New Cover.dwg

GENERAL NOTES

- All work shall comply with local, state, and federal regulations, as well as industry standards for safety and quality.
- Coordination with local agencies, utility companies, and property owners shall take place prior to construction to ensure compliance with ROW usage and construction requirements.
- A traffic management plan shall be practiced at all times, when necessary, to ensure the safety of workers, motorists, and pedestrians during construction.
- All work zones shall be clearly marked with proper signage and clear traffic flow patterns.
- Erosion control measures shall be implemented to prevent sediment runoff and contamination of nearby water bodies.
- Proper depth, width, and alignment shall be ensured when excavation is required for installation of underground pipe, conduit, appurtenances, etc. Shoring and bracing techniques that mitigate the risk of “cave-ins” in excavated areas shall be used.
- All ROW surfaces shall be restored to their original condition or as specified in the jurisdictional documentation included in the approved permit package. Trenches, bore pits, and other disturbed ground/landscape shall be backfilled using approved materials, compacting layers to achieve required compaction density.
- Only properly tested industry-standard equipment, tools, and materials shall be used during the installation of aerial and/or buried telecommunications lines. Conduit, pipe, cables and hardware shall be installed according to manufacturer recommendations, minimizing bends and tension.
- Regular contractor safety meetings shall be conducted prior to the commencement of construction and during the entirety of the construction phase. PPE shall be provided by the contractor and the contractor will ensure adherence to safety protocols at all times.
- The contractor shall maintain a well-developed emergency response plan and communicate the plan to all workers. This plan shall include an outlined plan of procedures in the event of accidents, incidents, and unforeseen circumstances.
- A quality control program shall be in place to monitor and verify construction activities throughout the duration of the project. Regular inspections will be conducted to ensure design, specifications, and industry standard compliance at all times.
- The contractor shall be responsible for the timely and safe completion of all construction activities within the designated work area.

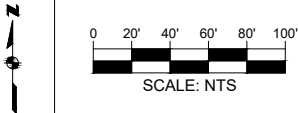


MISC. NOTES:

CONFIDENTIAL AND PROPRIETARY

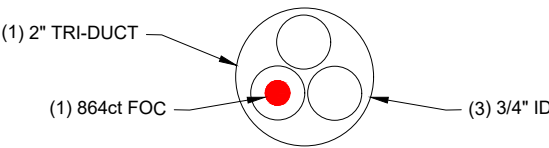


CLIENT:
MCNC
JOB TITLE:
S1-1 CHARLOTTE TO POLKTON
JOB LOCATION:
MECKLENBURG COUNTY, NC
DESIGNER:
RB
DATE:
3/25/2025

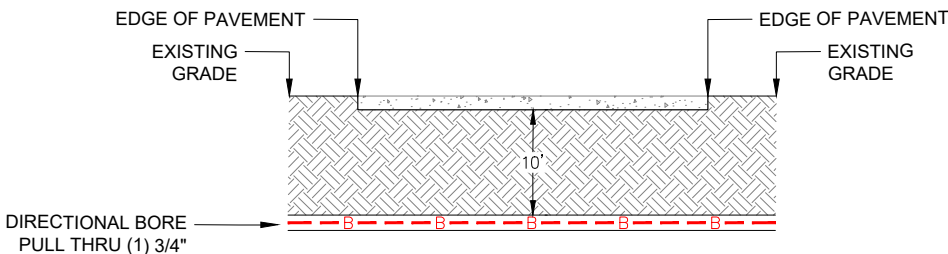


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PLOT DATE: 3/25/2025	
FILE NAME:	

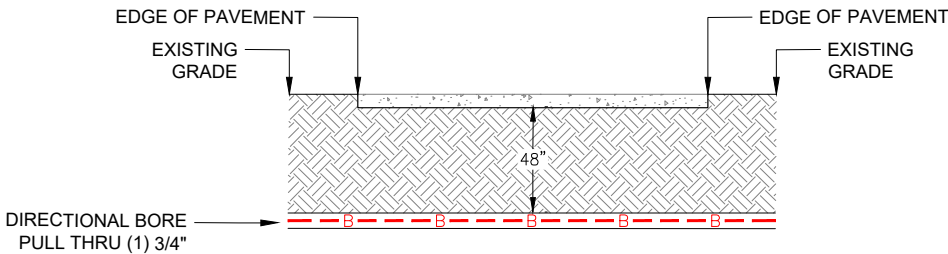
TYPICAL DETAIL "A"
CROSS SECTION OF PROPOSED PIPE



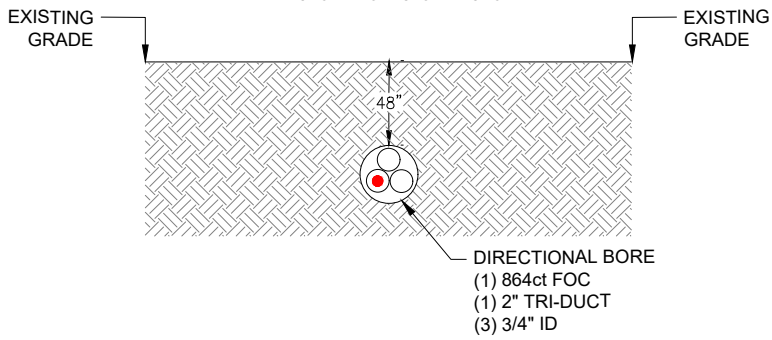
TYPICAL DETAIL "B"
PROFILE CROSSING PRIMARY ROAD



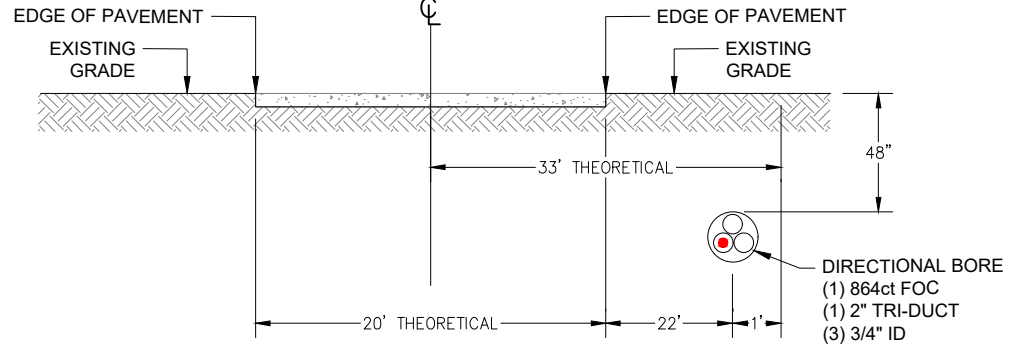
TYPICAL DETAIL "C"
PROFILE CROSSING SECONDARY ROAD



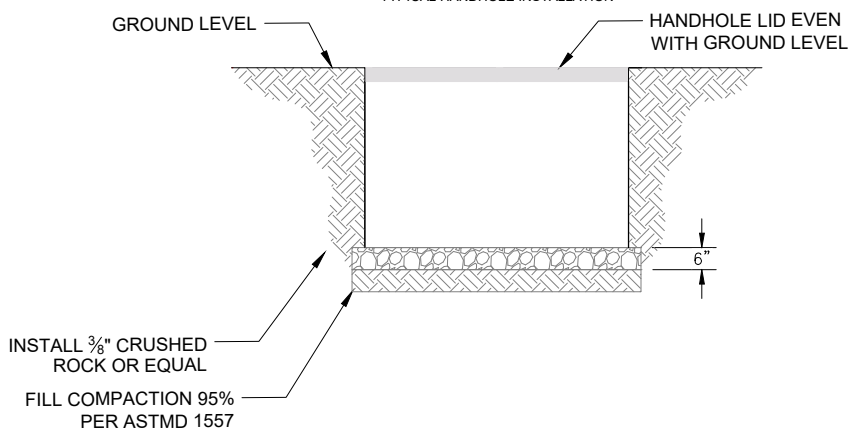
TYPICAL DETAIL "D"
DIRECTIONAL BORE CROSS SECTION



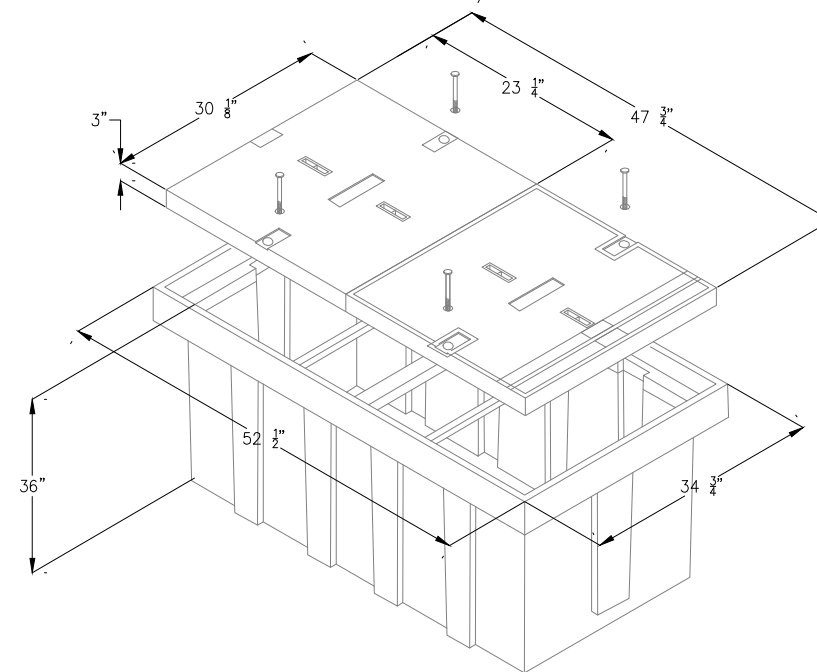
TYPICAL DETAIL "E"
PROFILE TO RIGHT-OF-WAY PLACEMENT



TYPICAL DETAIL "F"
TYPICAL HANDHOLE INSTALLATION



TYPICAL DETAIL "G"
TYPICAL HANDHOLE 24"x36"x36"

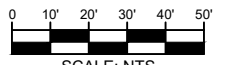


MISC. NOTES:

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE:
S1-1 CHARLOTTE TO POLKTON
JOB LOCATION:
MECKOLENBURG COUNTY, NC
DESIGNER:
R.B.
DATE:
3/25/2025



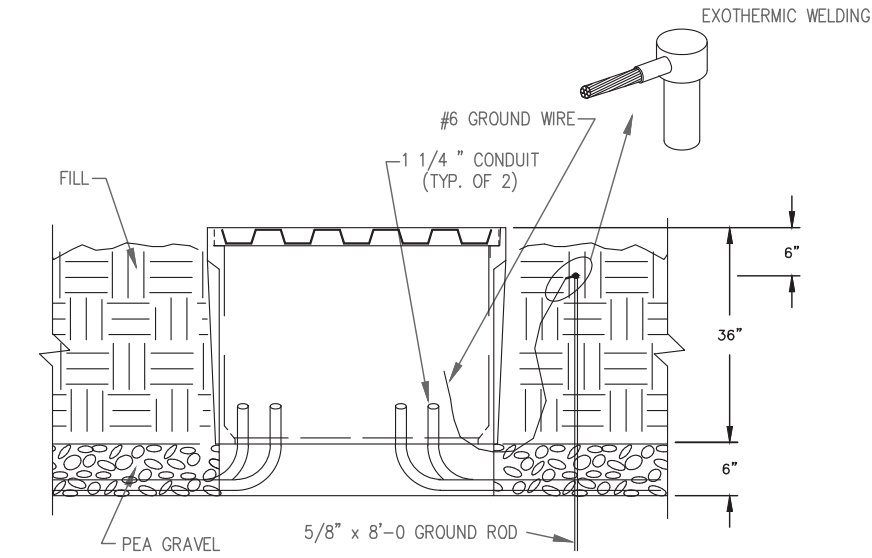
SCALE:
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PLOT DATE:
3/25/2025

SHEET NUMBER:

C5

FILE NAME:
S1-1 CHARLOTTE TO POLKTON C2.dwg

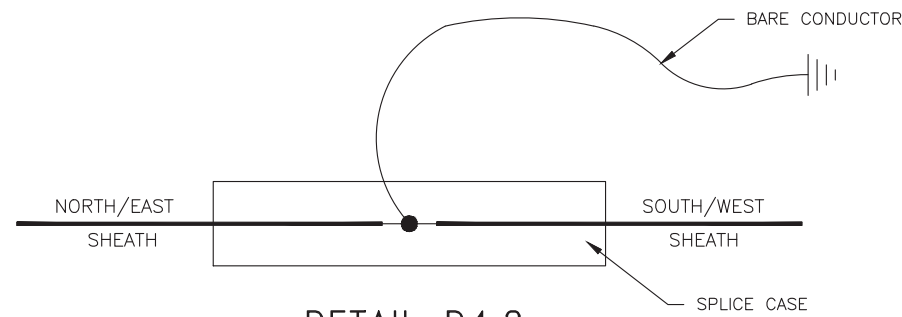


DETAIL D4.1

HANDHOLE PLACEMENT DETAIL

NOT TO SCALE

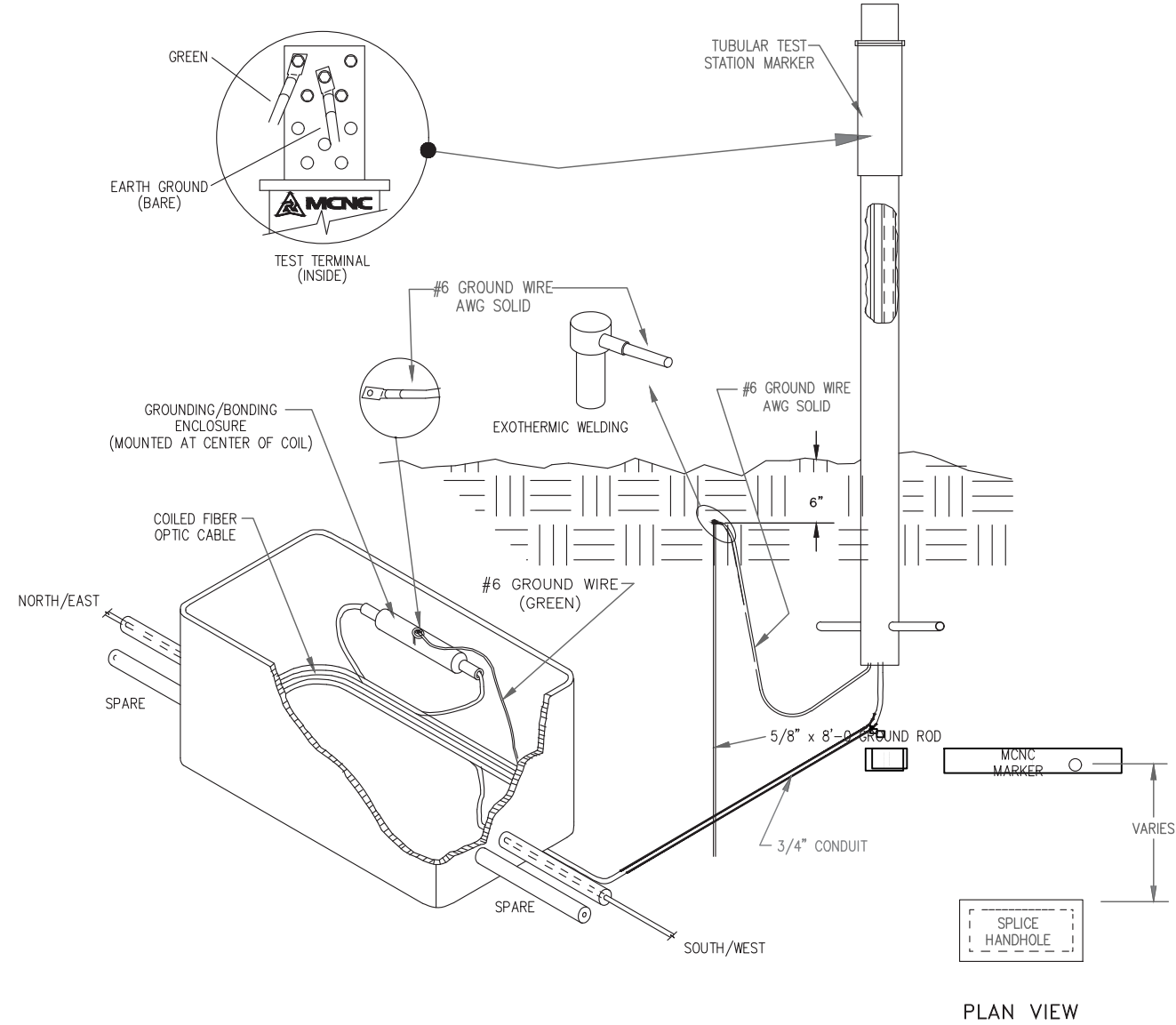
GROUND ROD SHALL BE USED WHEN
CALLED OUT ON CONSTRUCTION DRAWINGS



DETAIL D4.2

GROUNDING DIAGRAM - SHEATH

NOT TO SCALE



DETAIL D4.3

SHEATH GROUNDING DETAIL

NOT TO SCALE

GROUND ROD SHALL BE USED WHEN
CALLED OUT ON CONSTRUCTION DRAWINGS

CONSTRUCTION NOTES:

CONFIDENTIAL AND PROPRIETARY



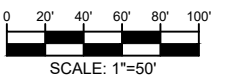
CLIENT:
MCNC

JOB TITLE: S1-1 CHARLOTTE TO POLKTON

JOB LOCATION: MECKLENBURG COUNTY, NC

DESIGNER:
R.B.

DATE: 3/25/25



SCALE:

1" = 50'

PLOT DATE:

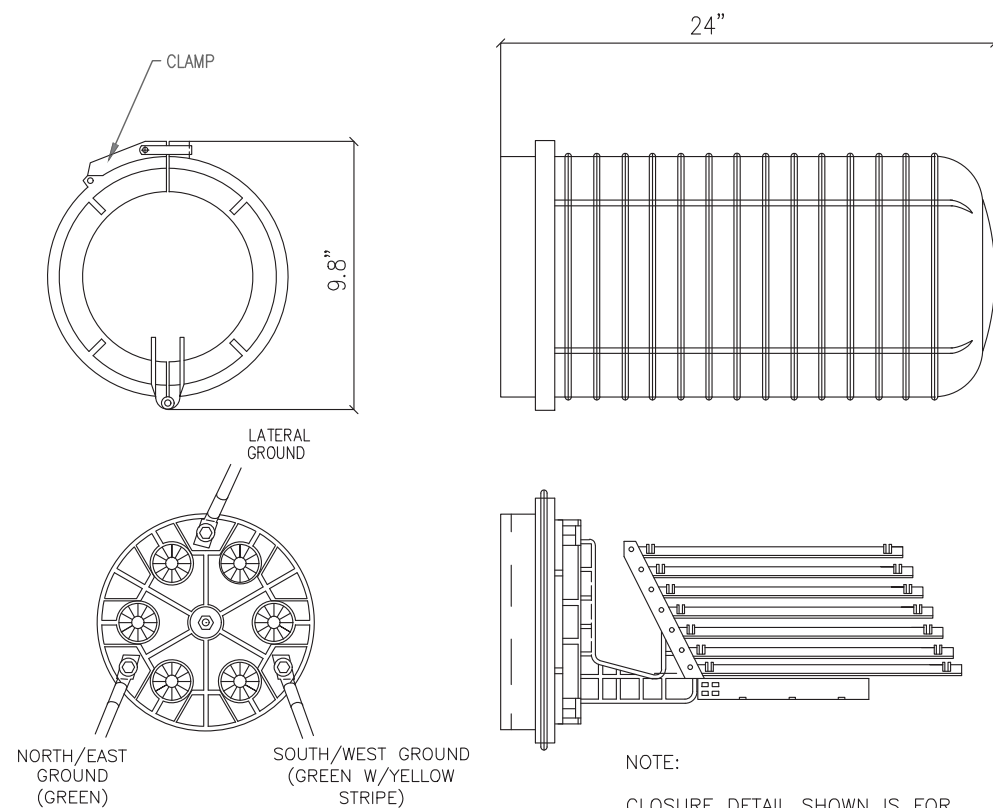
3/25/25

SHEET NUMBER:

C6

FILE NAME:

CCART-4-R8.dwg



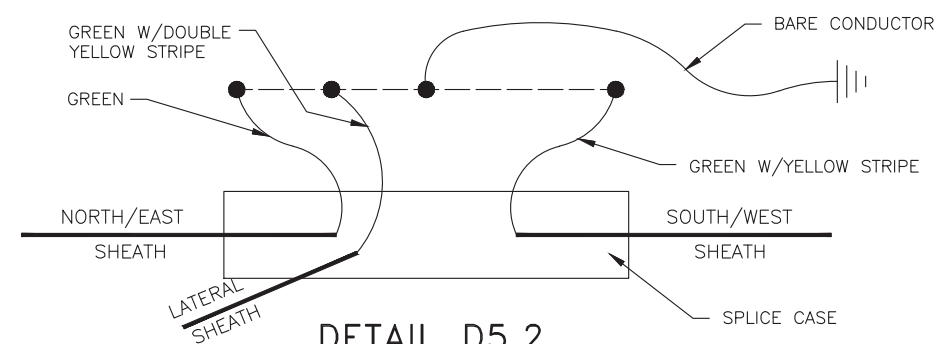
DETAIL D5.1

SPLICE CLOSURE DETAIL

NOT TO SCALE

NOTE:

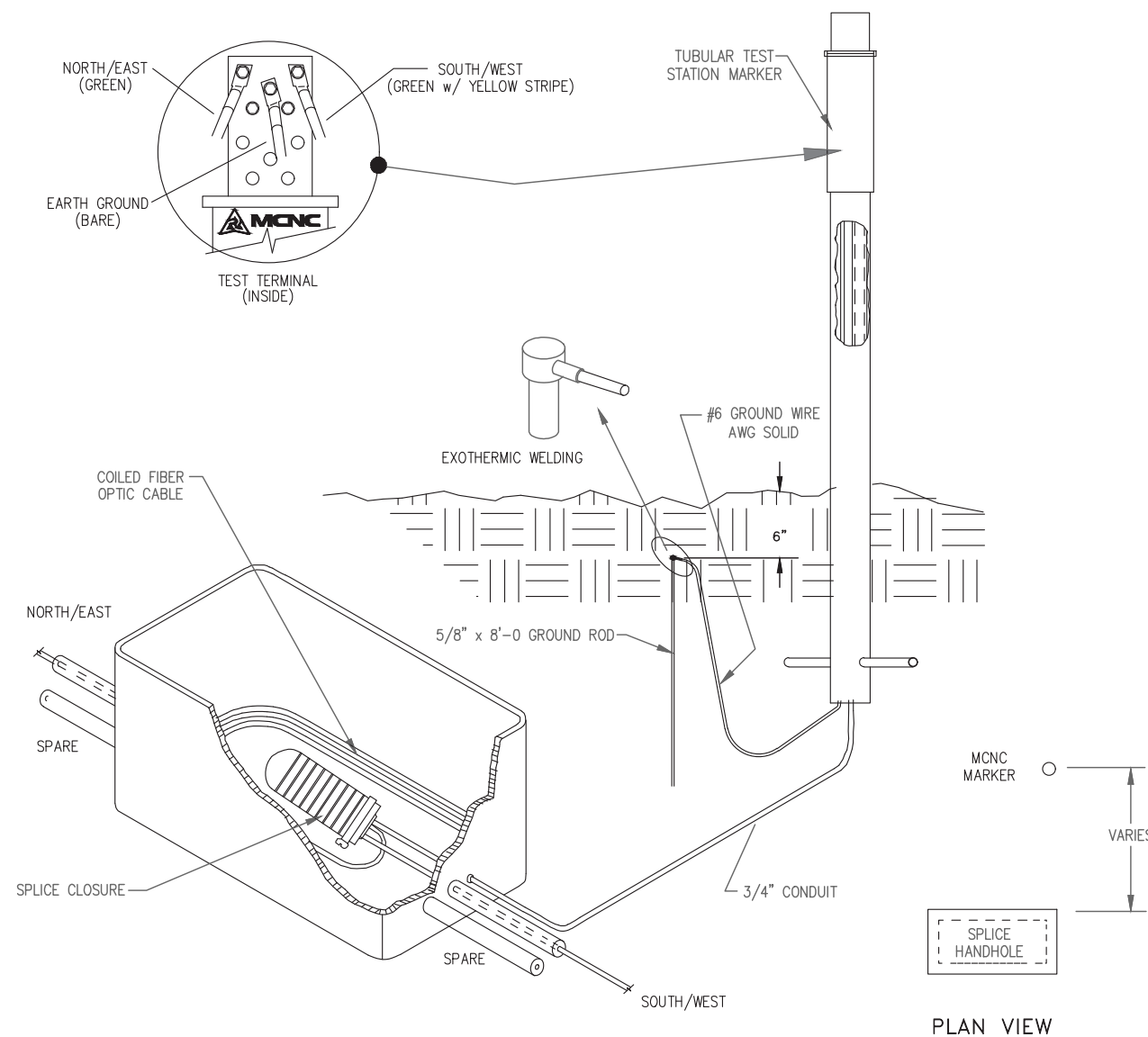
CLOSURE DETAIL SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL EQUIPMENT TO BE USED TO BE DETERMINED BY MCNC.



DETAIL D5.2

GROUNDING DIAGRAM - SPLICING

NOT TO SCALE



DETAIL D5.3

SPLICE CASE GROUND DETAIL

NOT TO SCALE

GROUND ROD SHALL BE USED WHEN CALLED OUT ON CONSTRUCTION DRAWINGS

CONSTRUCTION NOTES:

CONFIDENTIAL AND PROPRIETARY

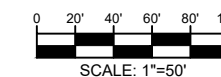


CLIENT:
MCNC
JOB TITLE: S1-1 CHARLOTTE TO POLKTON

JOB LOCATION: MECKLENBURG COUNTY, NC

DESIGNER:
R.B.

DATE: 3/25/25



SCALE:
1" = 50'

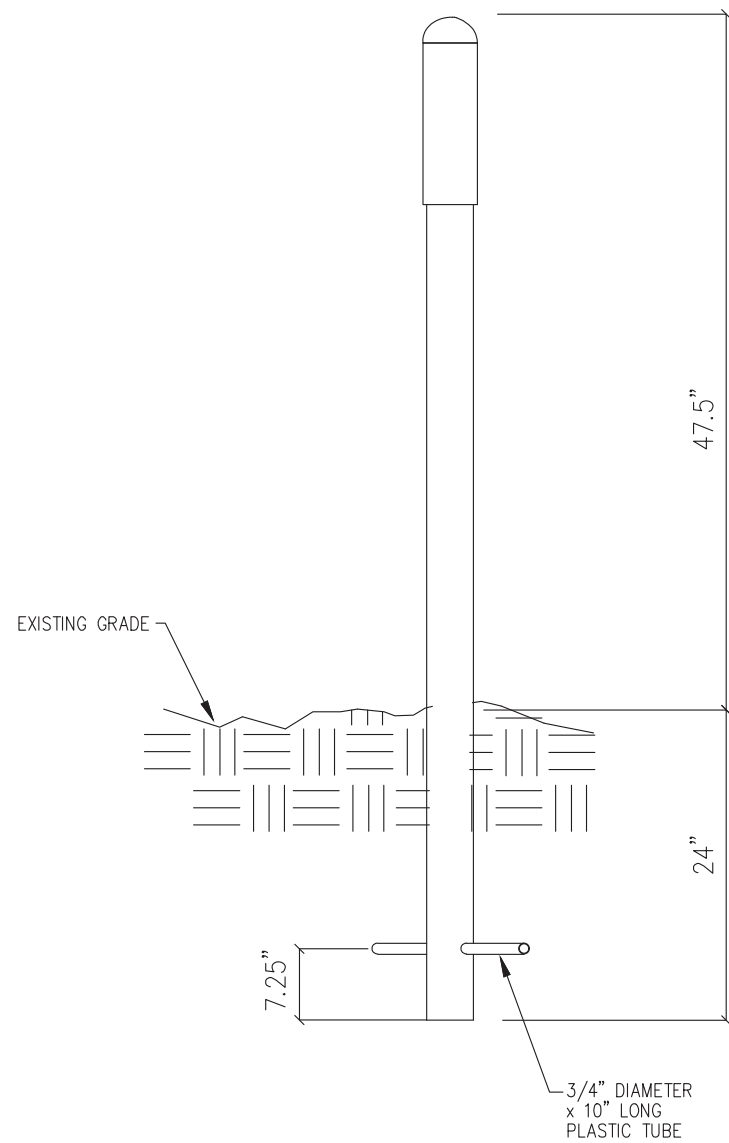
PLOT DATE:
3/25/25

SHEET NUMBER:

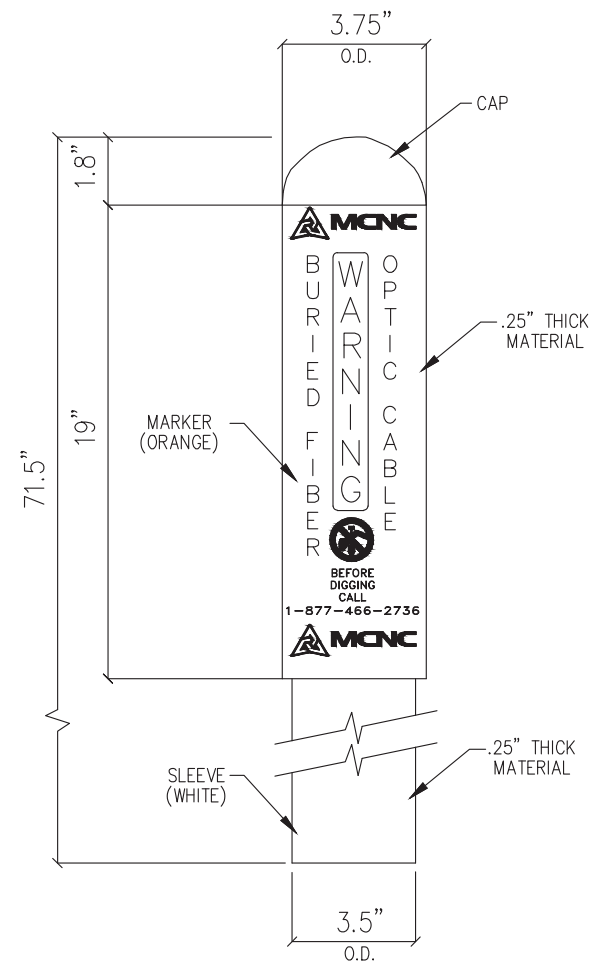
C7

FILE NAME:

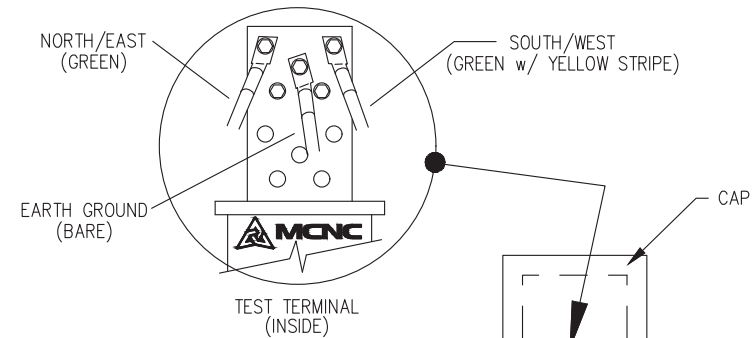
CCART-4-R8.dwg



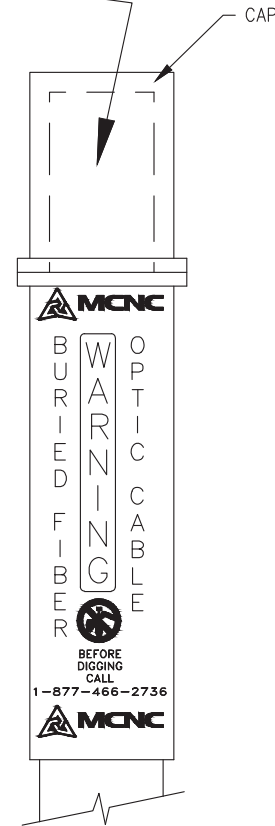
INSTALLATION VIEW
LEXAN POLYCARBONATE HIGH IMPACT PLASTIC



DETAIL "B"
FRONT & REAR VIEW



DETAIL "C"
SIDE VIEW



DETAIL "D"
TEST STATION

DETAIL D6.1

MARKER POST DETAIL

NOT TO SCALE

CONSTRUCTION NOTES:

CONFIDENTIAL AND PROPRIETARY

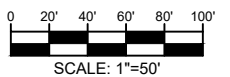


CLIENT:
MCNC
JOB TITLE: S1-1 CHARLOTTE TO POLKTON

JOB LOCATION: MECKLENBURG COUNTY, NC

DESIGNER:
R.B.

DATE: 3/25/25



SCALE:
1" = 50'

PLOT DATE:
3/25/25

SHEET NUMBER:

C8

FILE NAME:


CCART-4-R8.dwg


CONSTRUCTION NOTES:

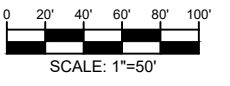
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: S1-1 CHARLOTTE TO POLKTON
JOB LOCATION: MECKLENBURG COUNTY, NC
DESIGNER:
R.B.
DATE: 3/25/25



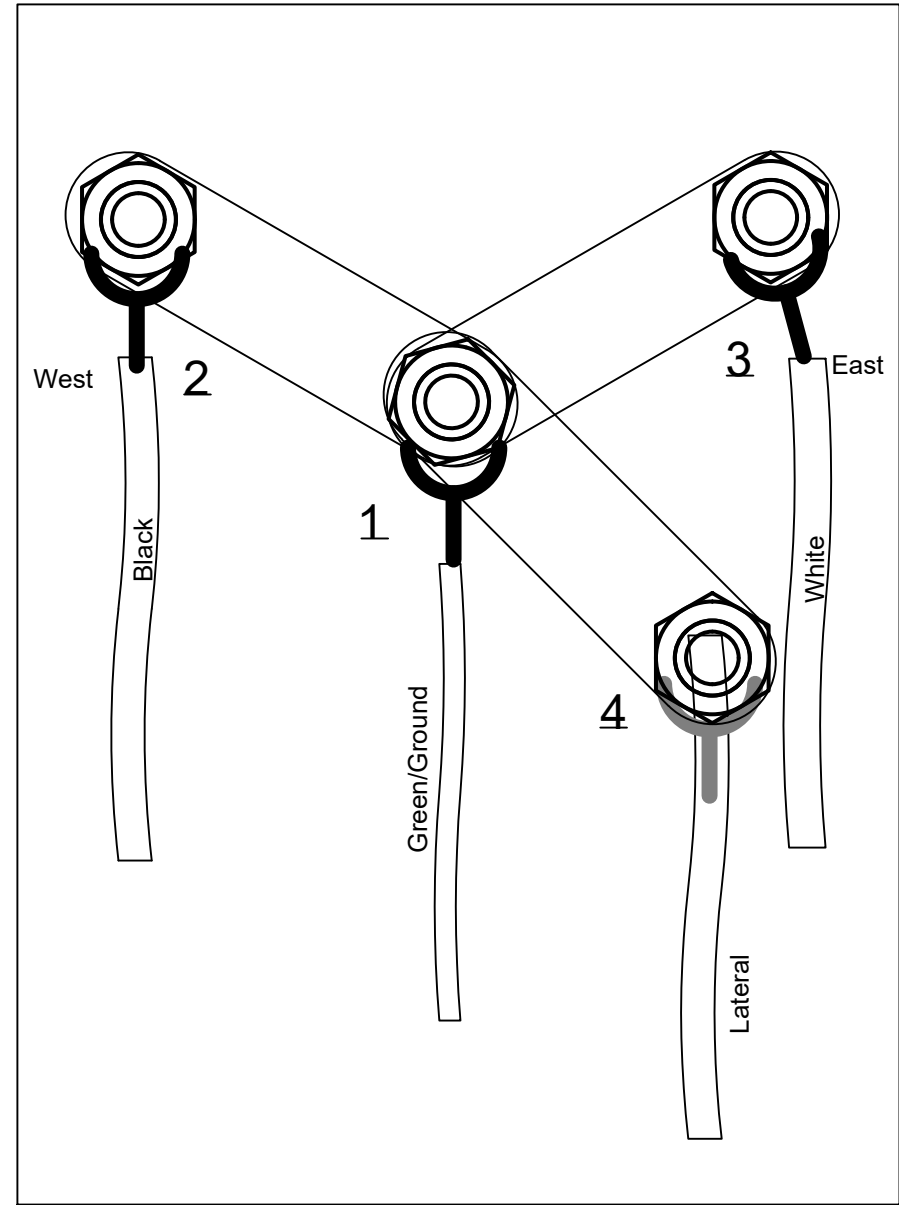




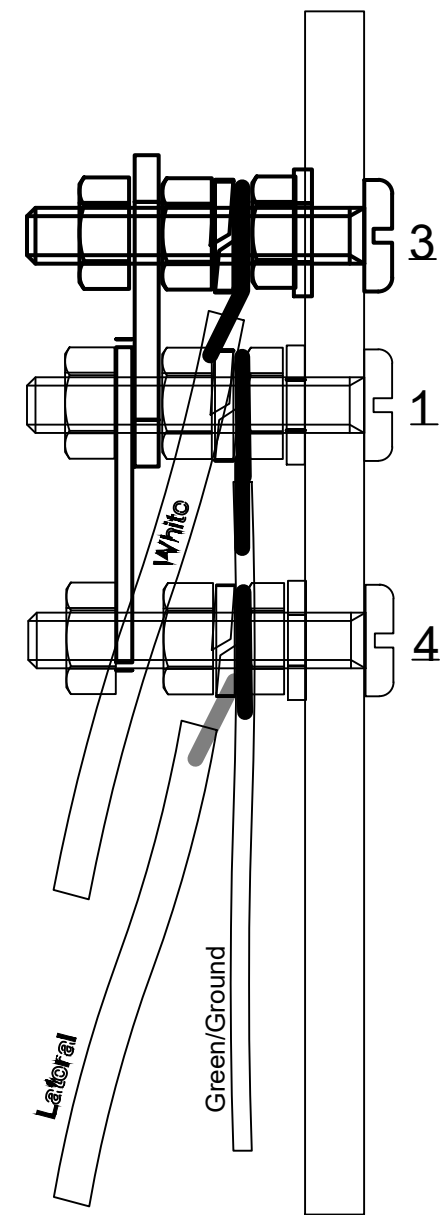
SCALE: 1" = 50'	SHEET NUMBER: C9
PLOT DATE: 3/25/25	

Test Station Wiring
with Lateral Bridge

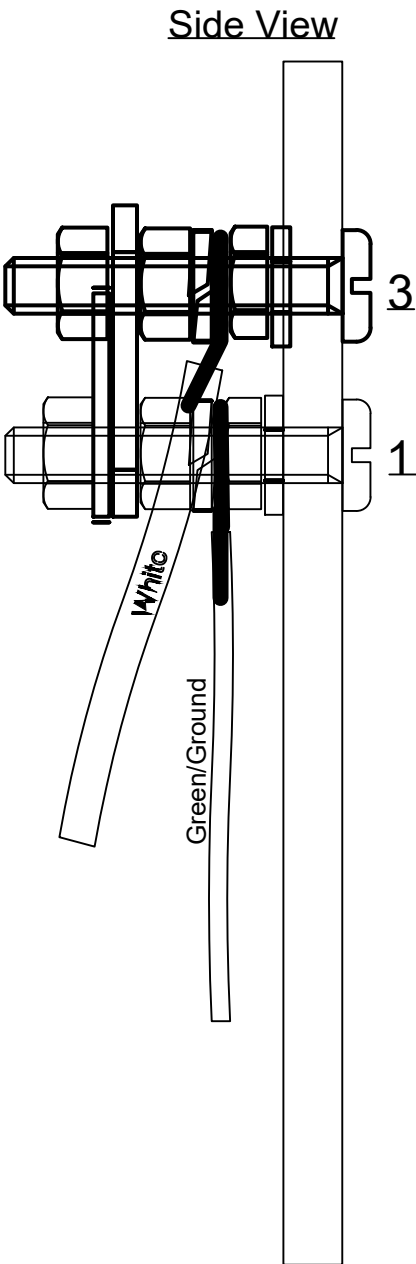
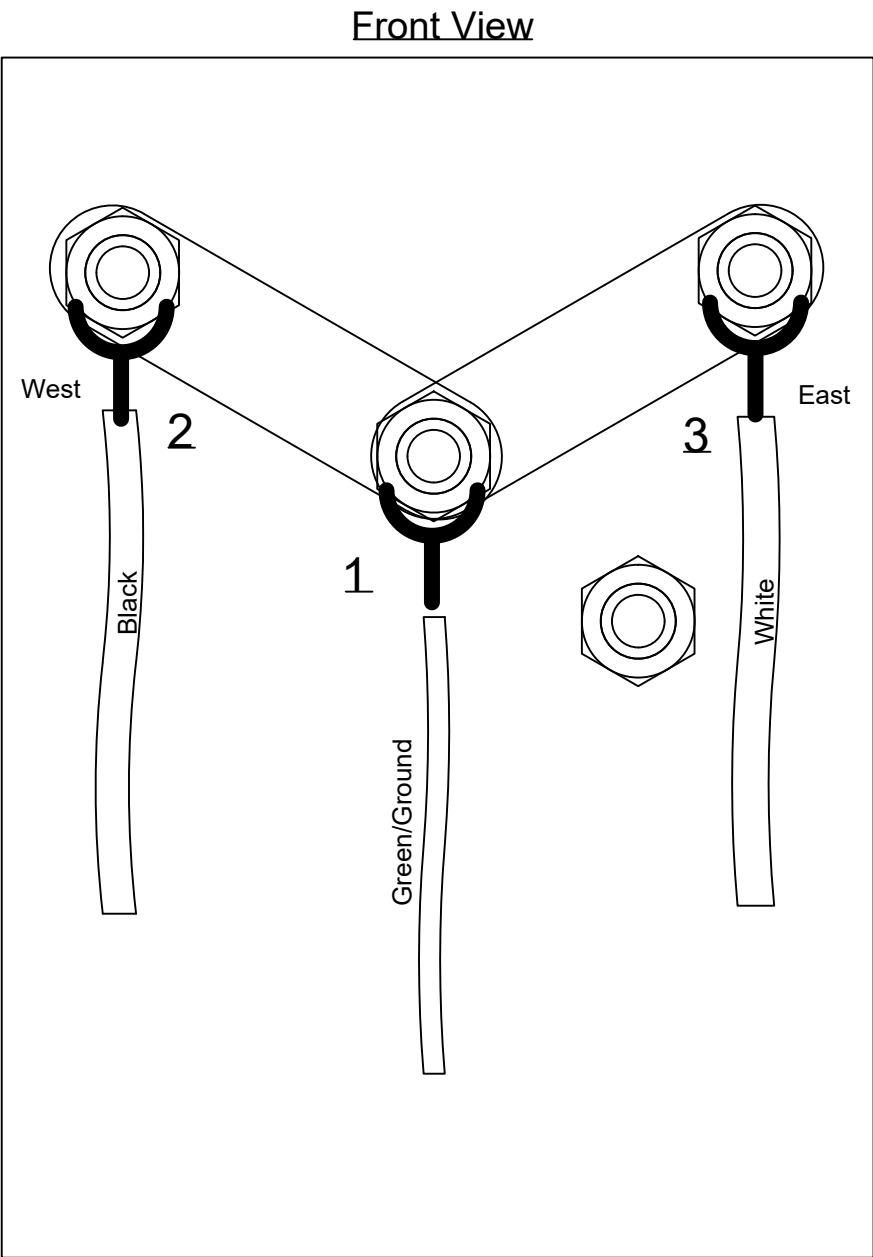
Front View



Side View



Test Station Wiring

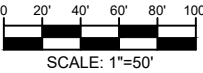
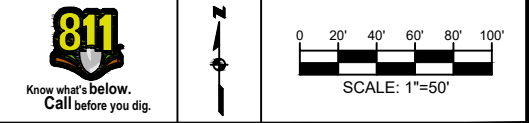


CONSTRUCTION NOTES:

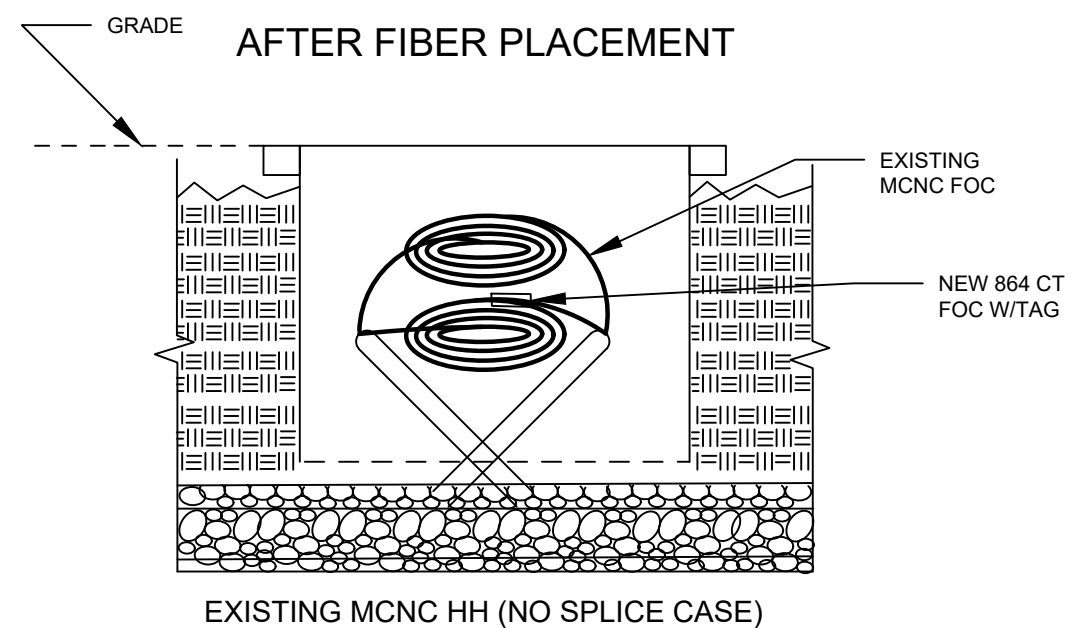
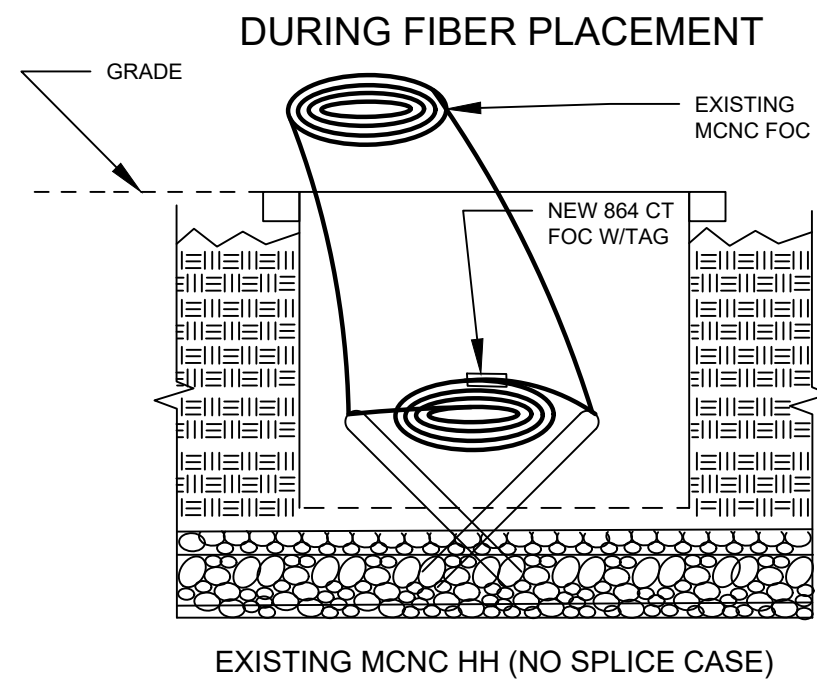
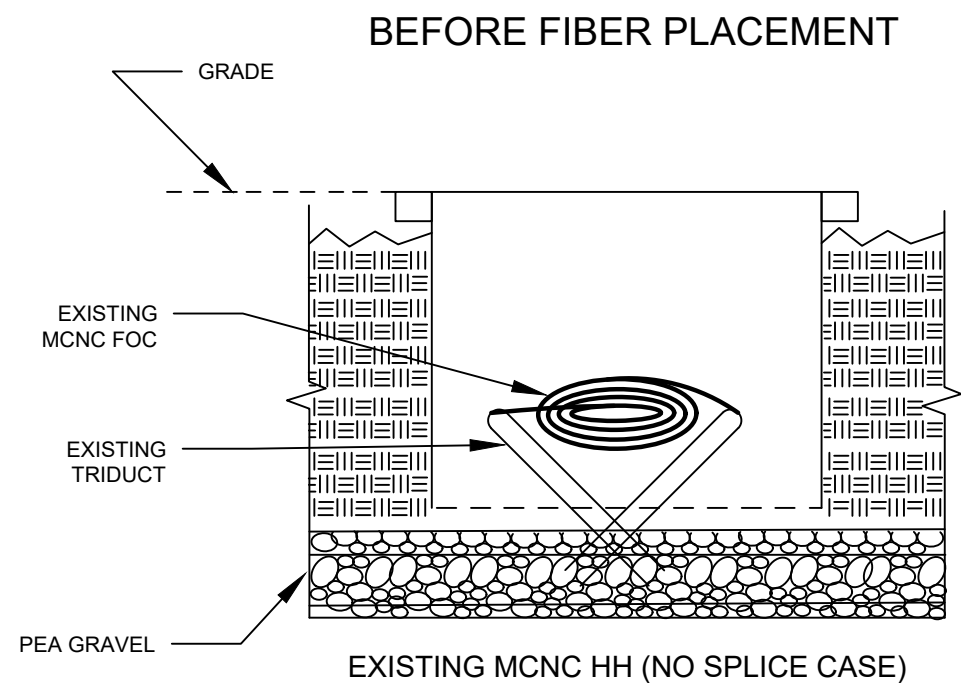
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: S1-1 CHARLOTTE TO POLKTON
JOB LOCATION: MECKLENBURG COUNTY, NC
DESIGNER:
R.B.
DATE: 3/25/25



SCALE:
1" = 50'
PLOT DATE:
3/25/25
SHEET NUMBER:
C10



ORDER OF WORK

1. Carefully remove existing MCNC FOC slack and place in secure location, ensuring no damage to existing FOC.
2. Place new 4" pea gravel base on top of old gravel. If no gravel exists, bring base to 6".
3. Bring in new 864 FOC and coil up slack. Tag 864 FOC and place coil at bottom of HH.
4. Re-dress existing MCNC slack and place on top of new 864 slack coil.

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE:

JOB LOCATION:

DESIGNER:
R.B.

DATE: 2/24/25



SCALE:

NTS

PLOT DATE:

4/18/25

SHEET NUMBER:

C11

FILE NAME:

hh.dwg

CONSTRUCTION NOTES:

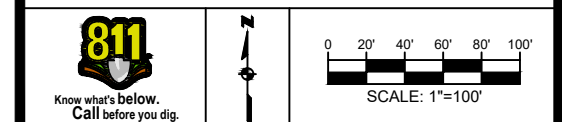
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

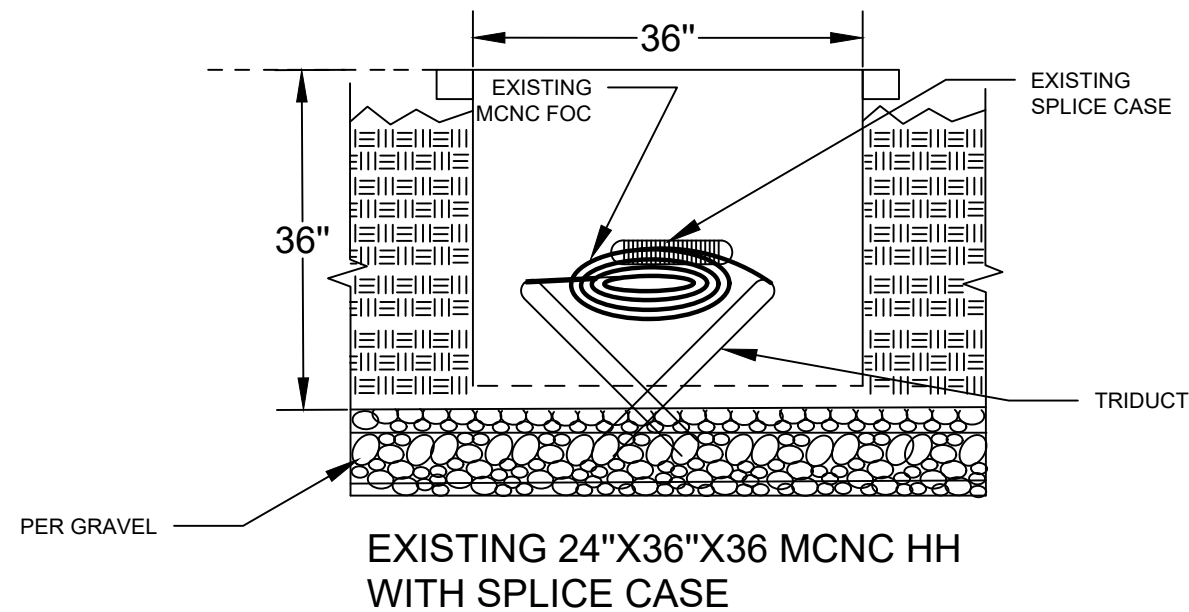


CLIENT:
MCNC
JOB TITLE:
JOB LOCATION:
DESIGNER:
R.B.
DATE: 2/24/25



SCALE: NTS
PLOT DATE: 4/18/25
SHEET NUMBER: C12
FILE NAME: hh.dwg

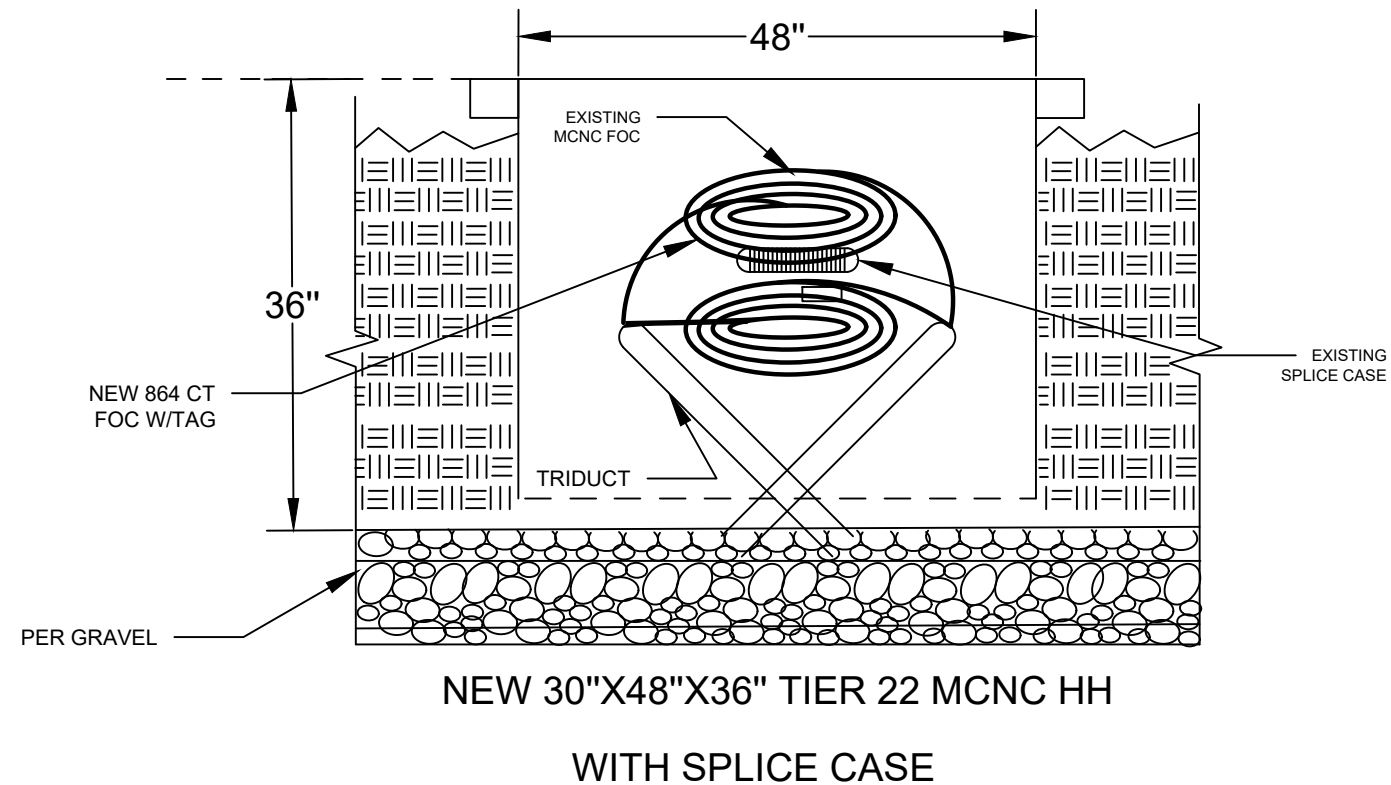
BEFORE HH UPGRADE

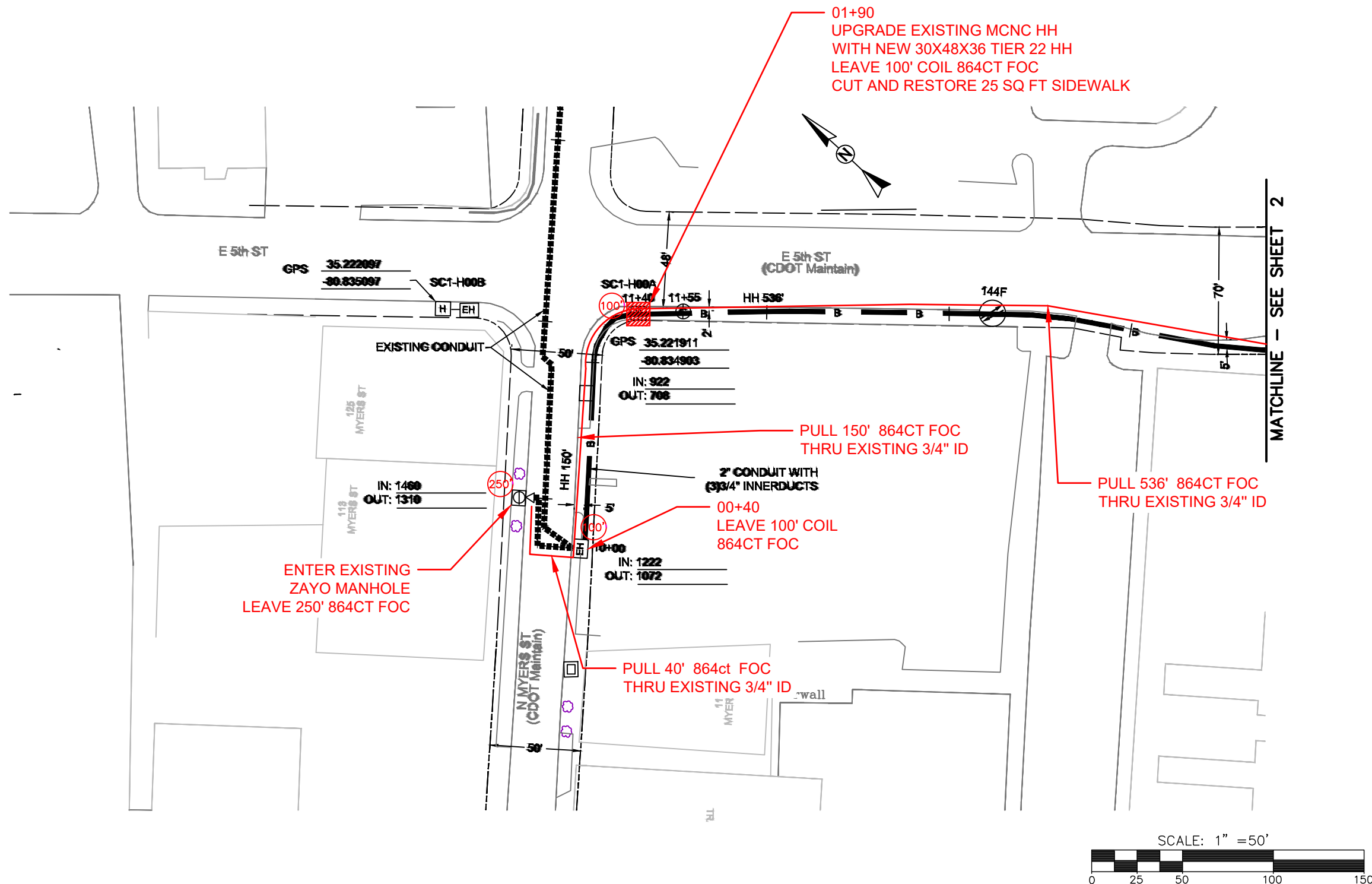


ORDER OF WORK

1. Carefully remove existing 24x36x36 MCNC HH.
2. Excavate earth to fit new 30x48x36 tier 22 MCNC HH.
3. Place new pea gravel, ensuring 6" base.
4. Set new 30x48x36 tier MCNC HH in place.
5. Carefully remove existing MCNC FOC slack and place in secure location, ensuring no damage to existing FOC.
6. Bring in new 864 FOC and coil up slack. Tag 864 FOC and place coil at bottom of HH.
6. Re-dress existing MCNC slack and place on top of new 864 slack coil.

AFTER HH UPGRADE





REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

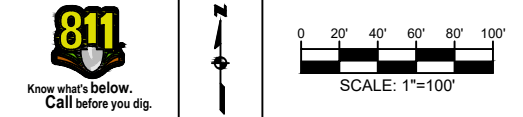
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

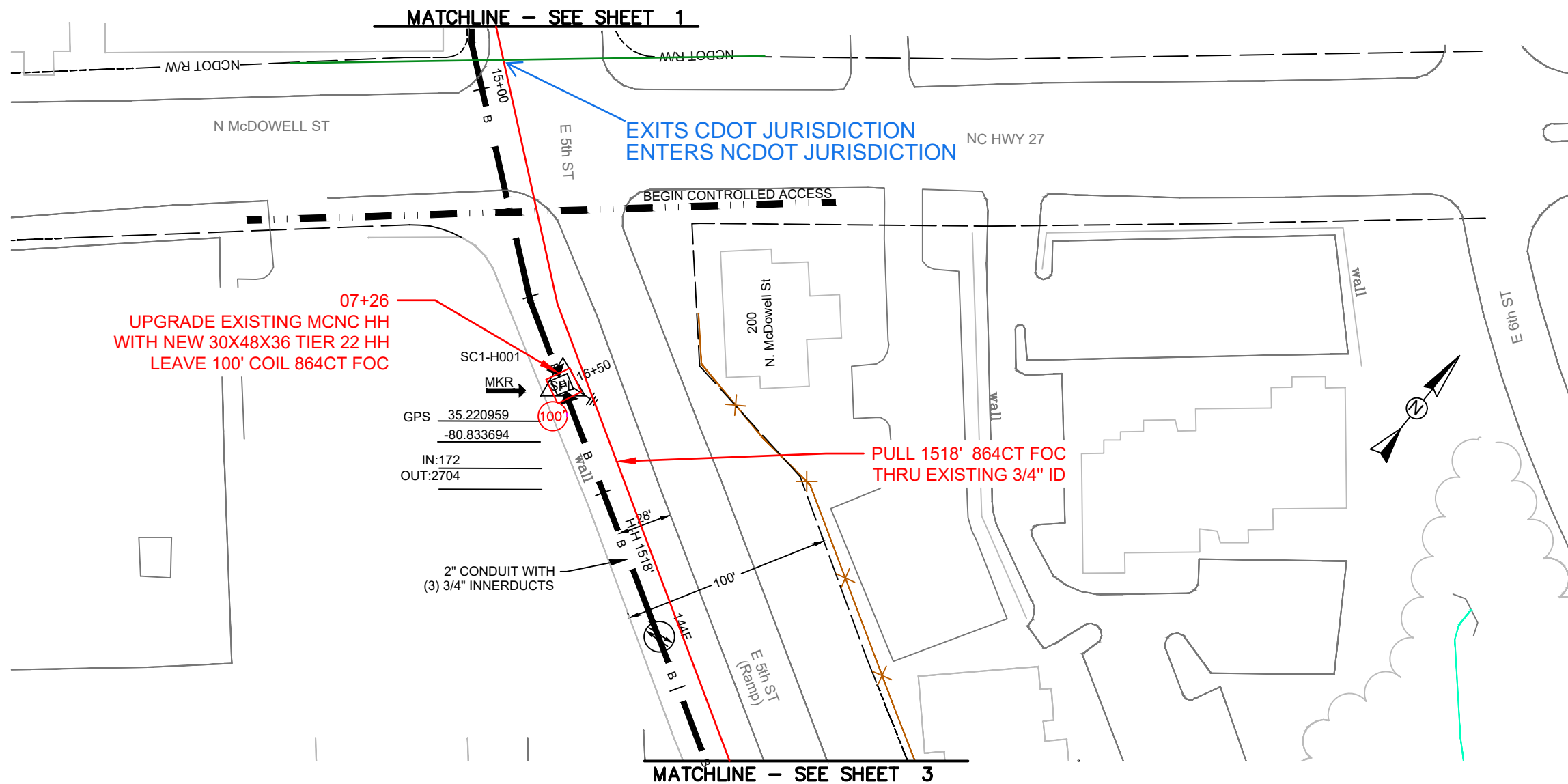


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 01 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT/NCODT
PERMIT NUMBER:



CONSTRUCTION NOTES:

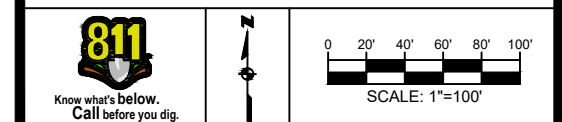
PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

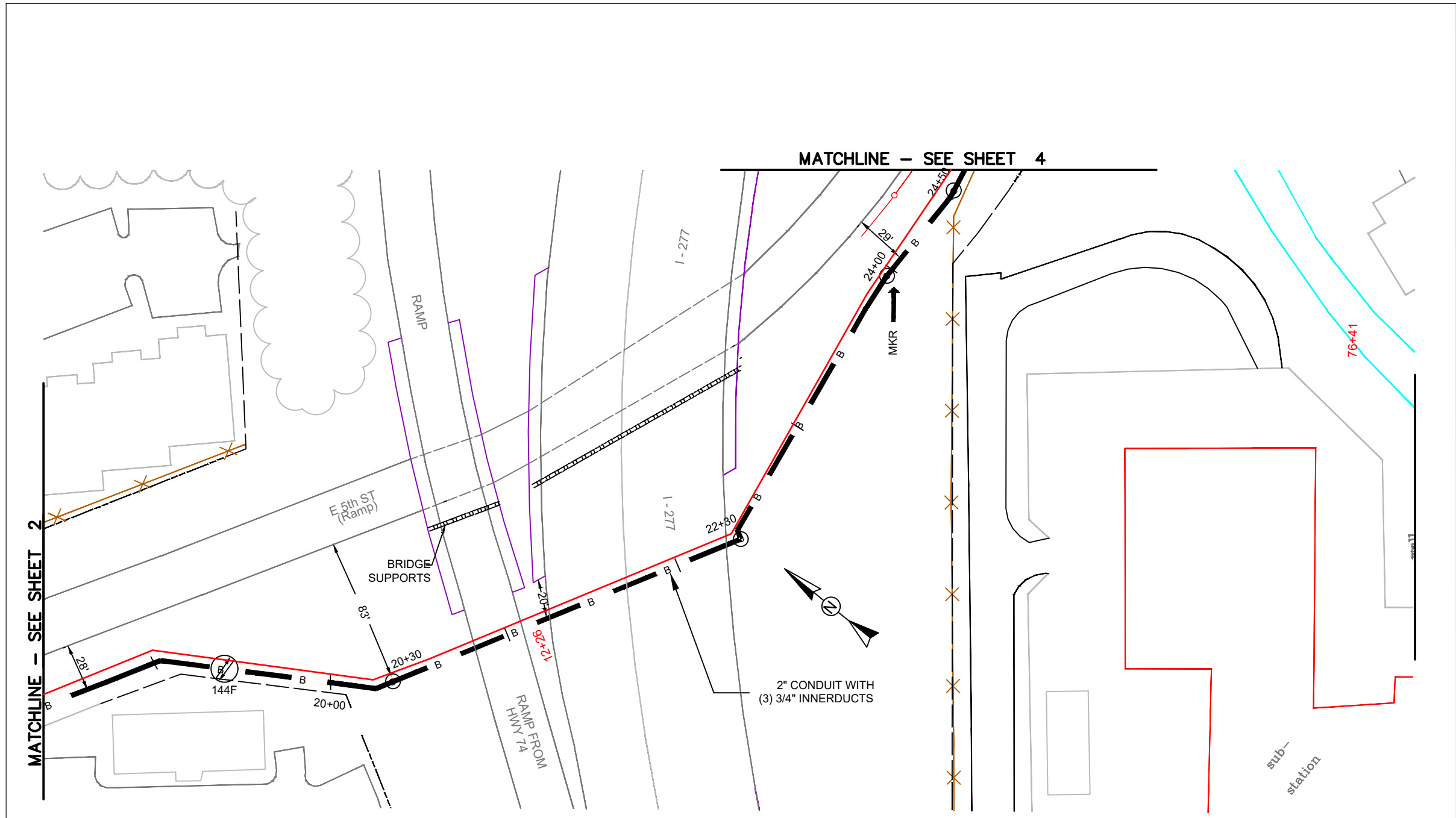


CLIENT: MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER: R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 02 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

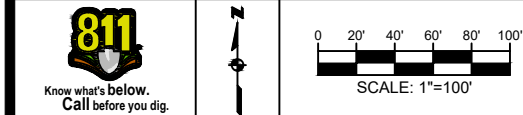
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

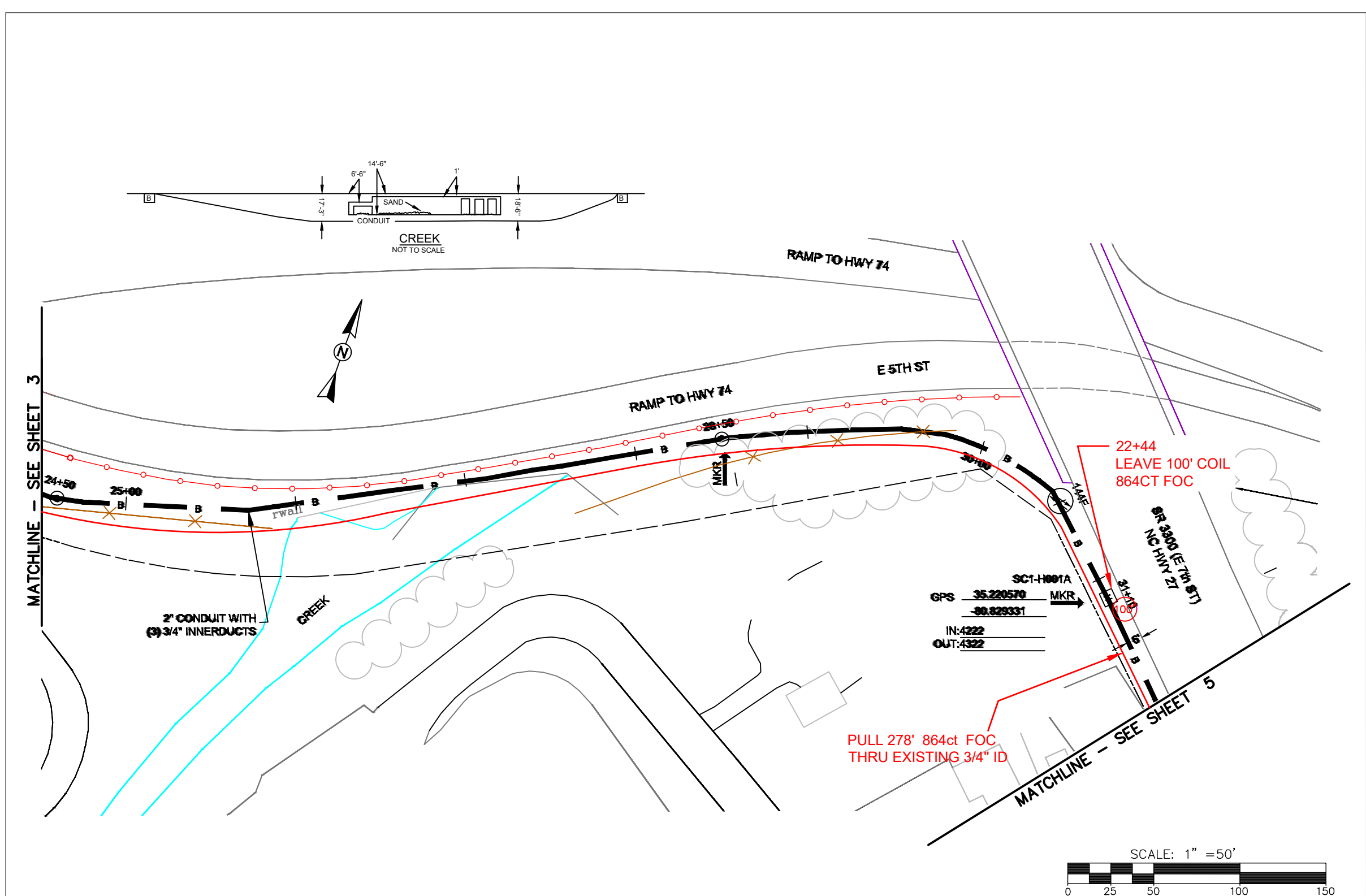
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 03 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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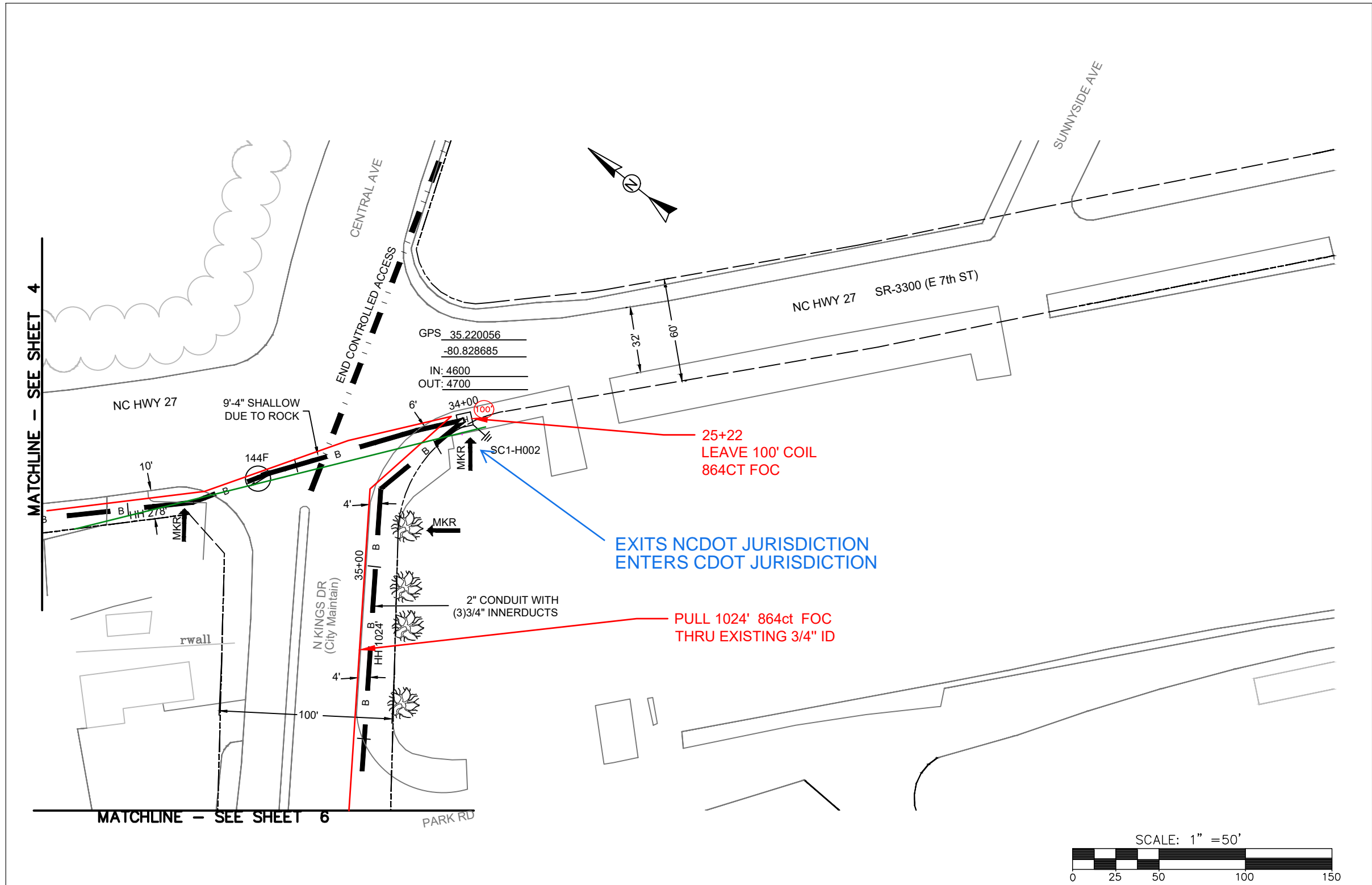
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 04 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT/NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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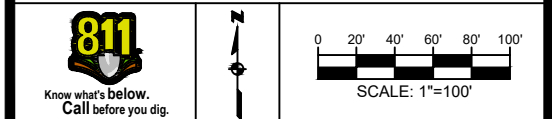
SEE DETAILS C11/C12

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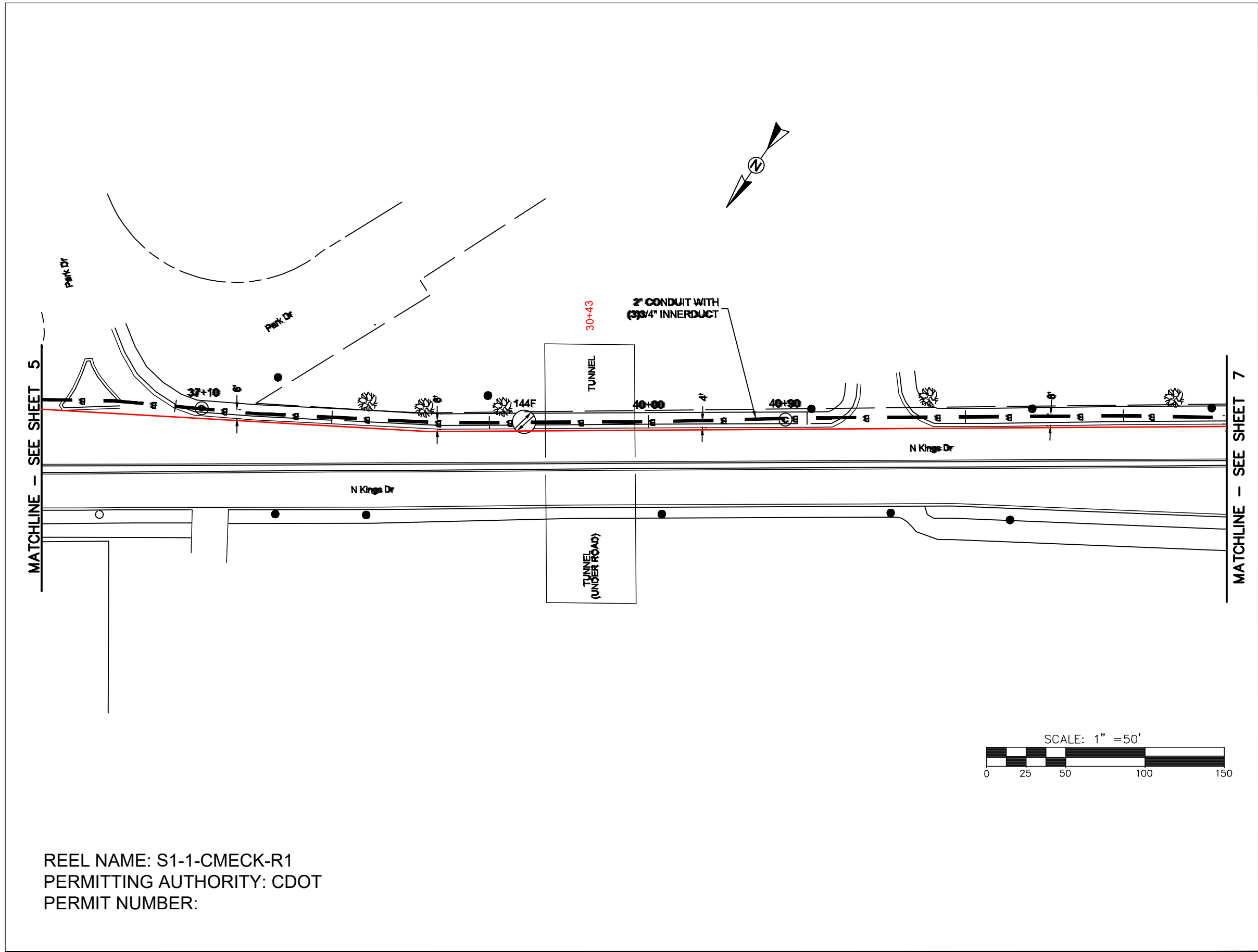
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MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25

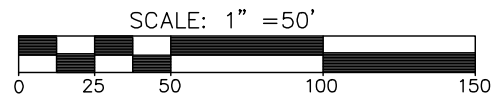


SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 05 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

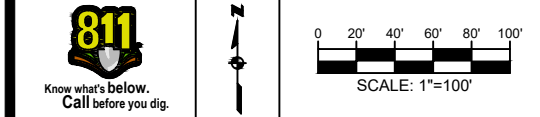
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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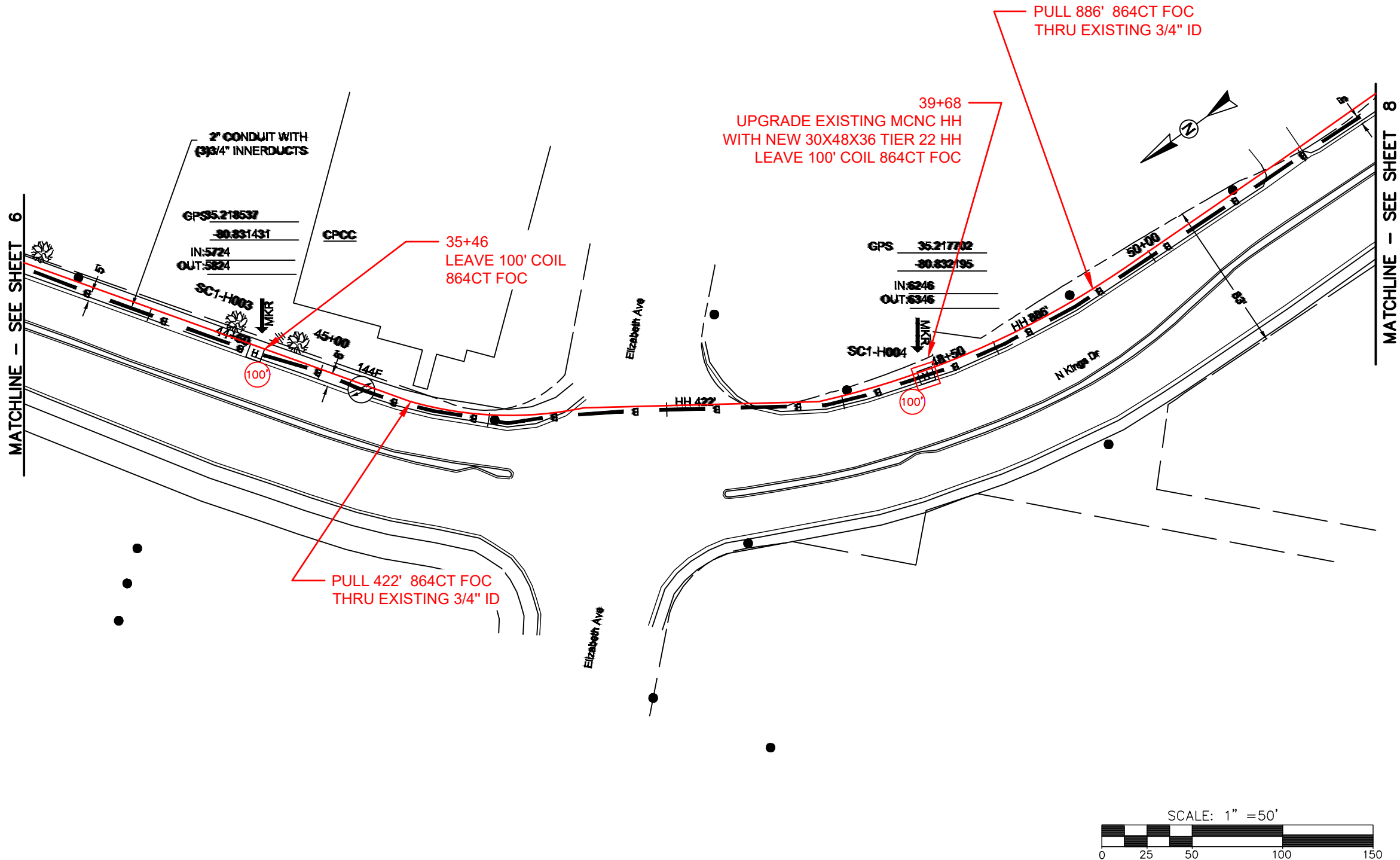


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 06 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

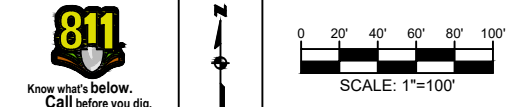
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

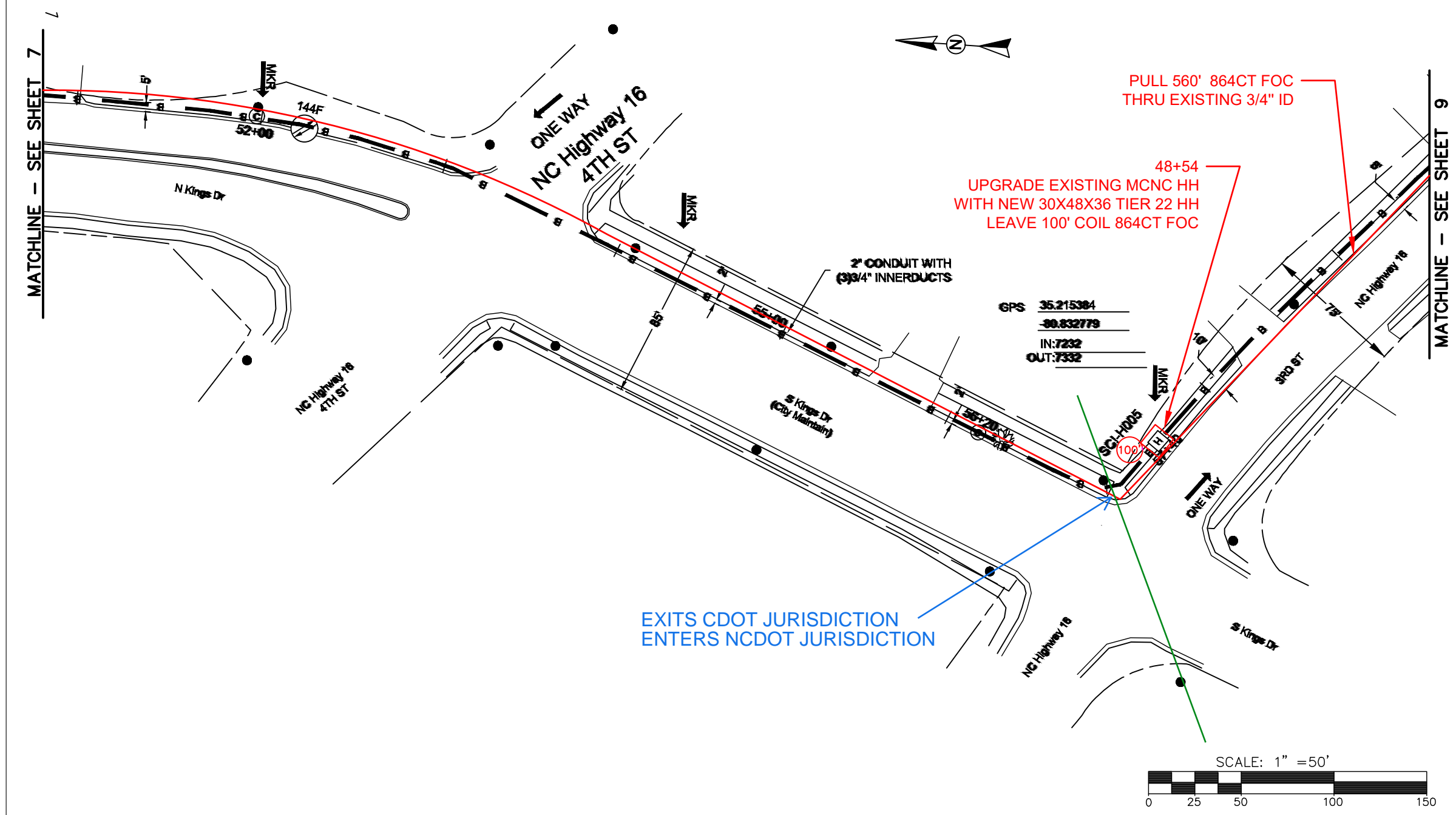


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 07 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT/NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

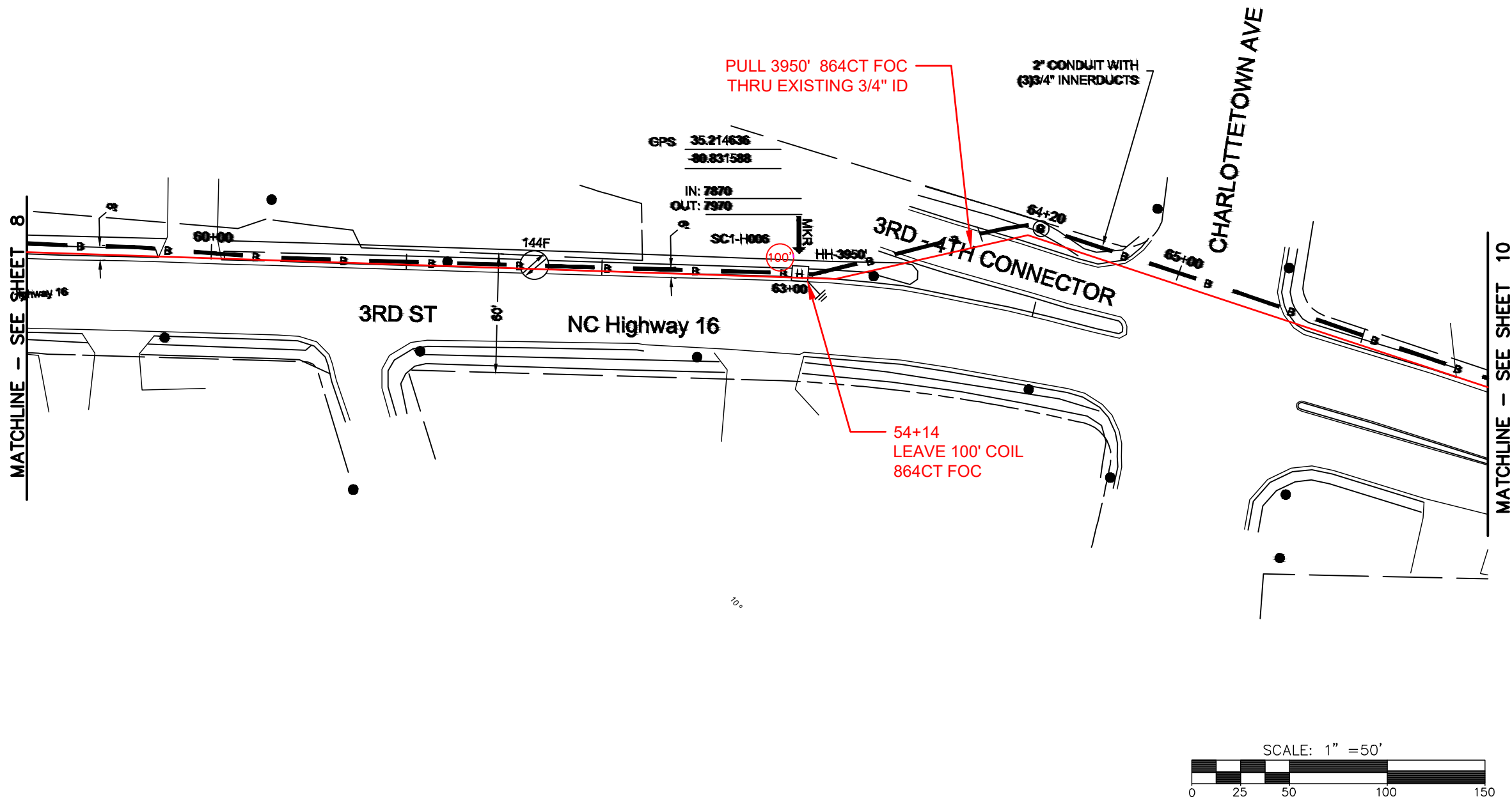
PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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MCNC®

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
Know what's below. Call before you dig.	
SCALE: NTS	SHEET NUMBER: 08 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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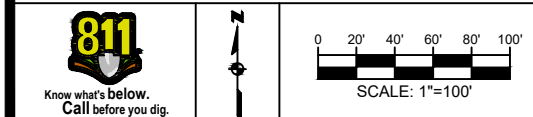
SEE DETAILS C11/C12

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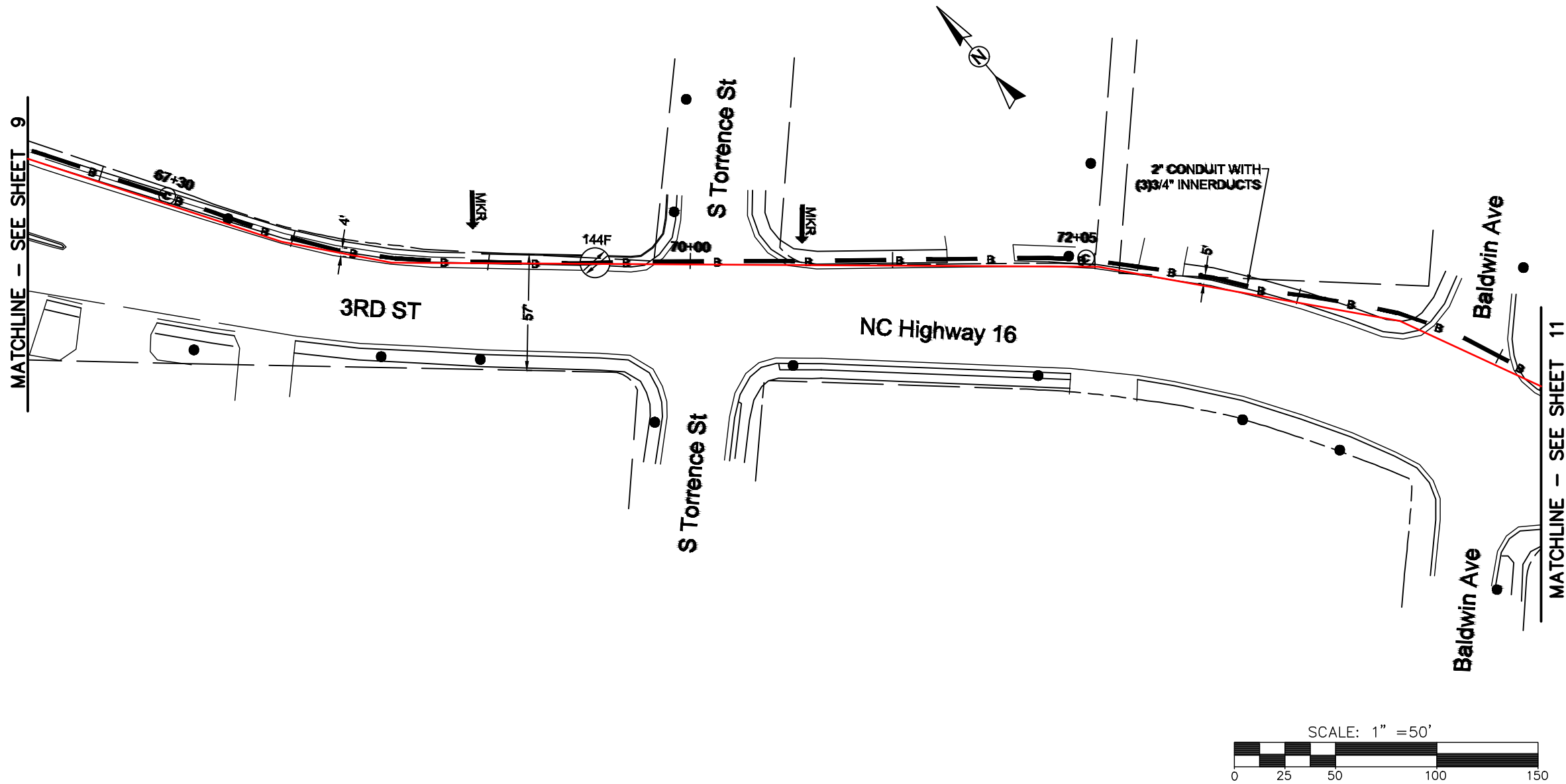
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 09 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

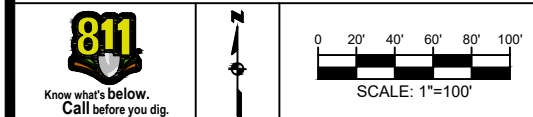
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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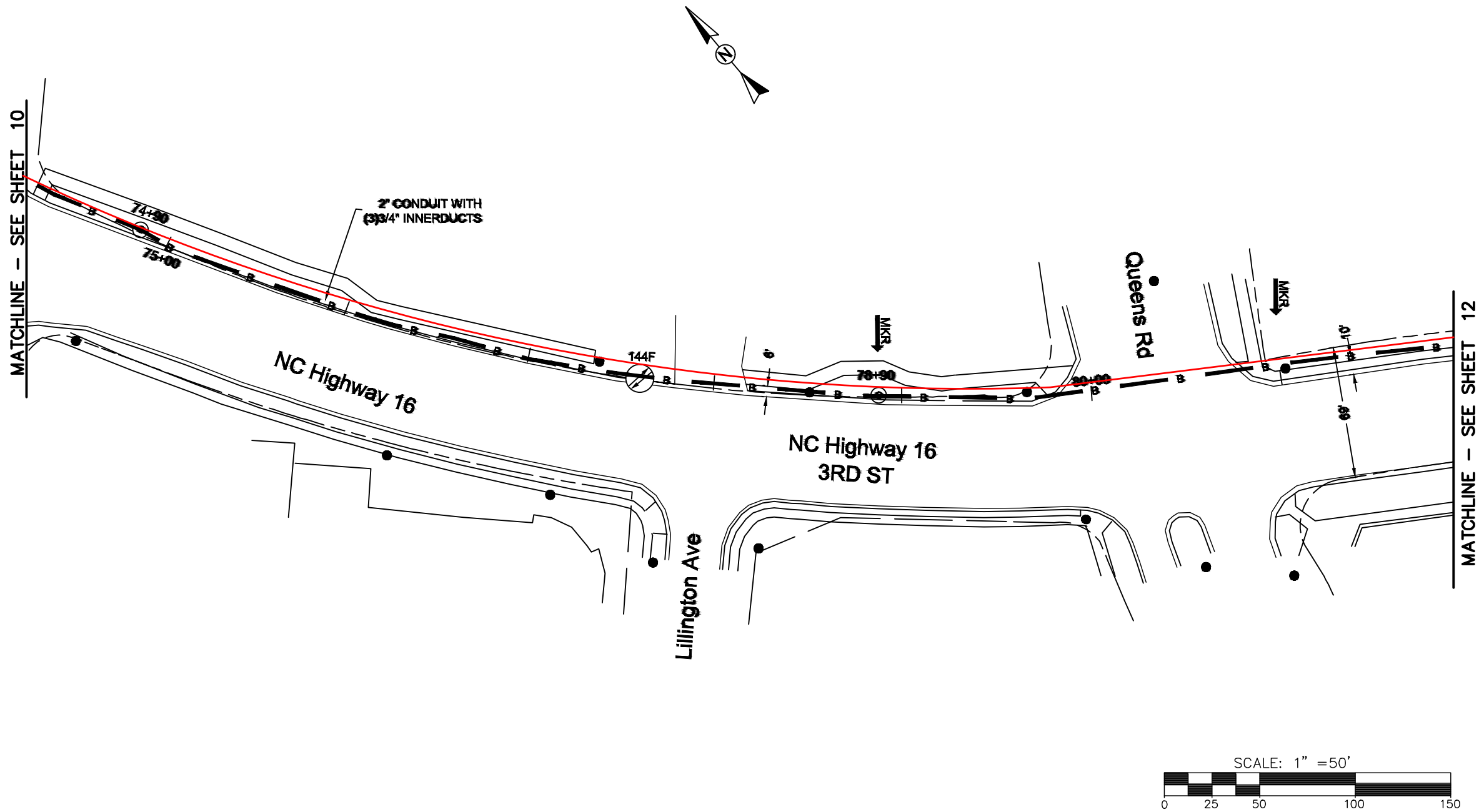


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 10 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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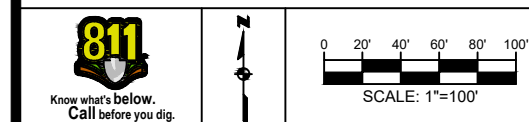
SEE DETAILS C11/C12

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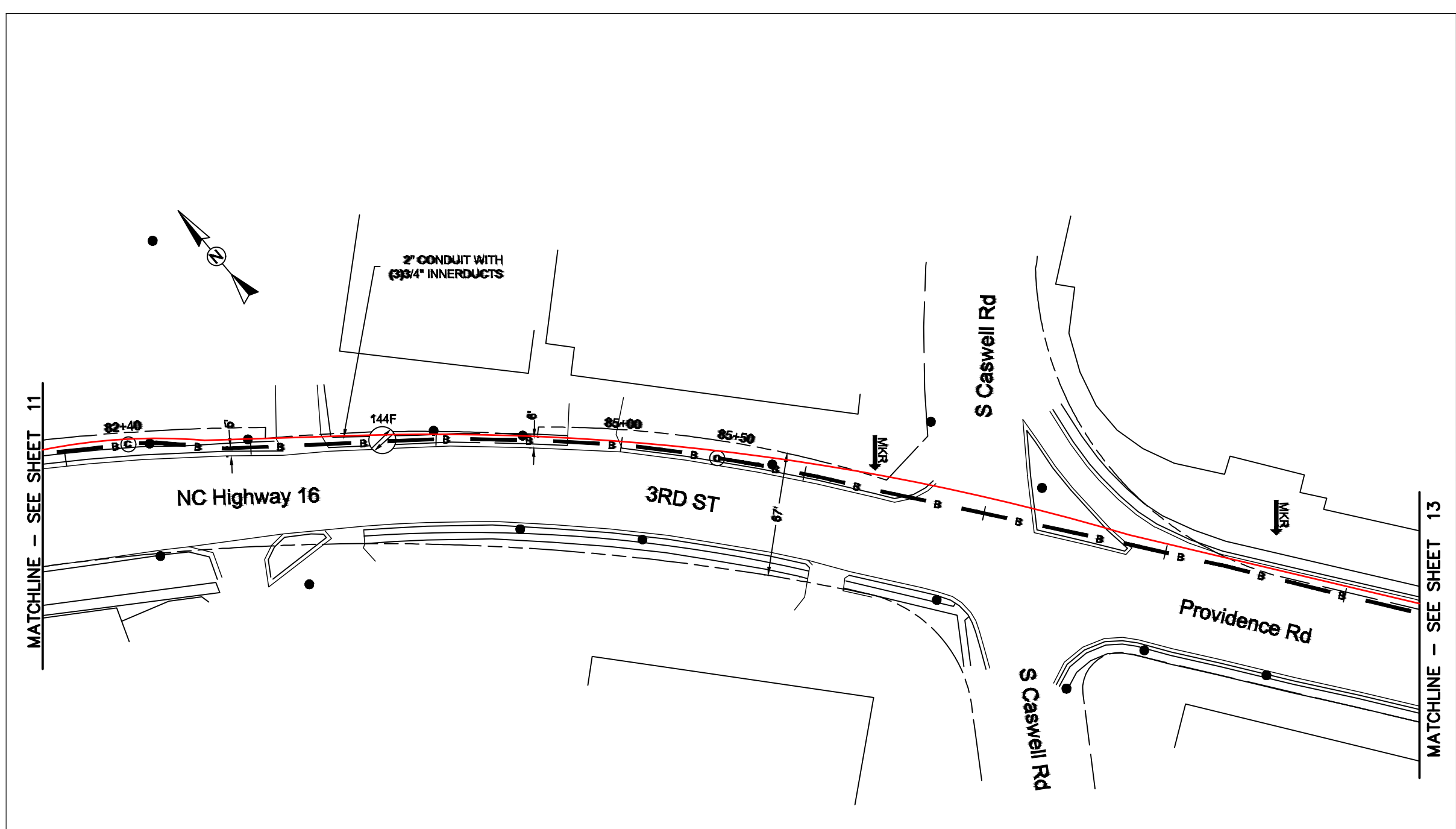
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 11 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
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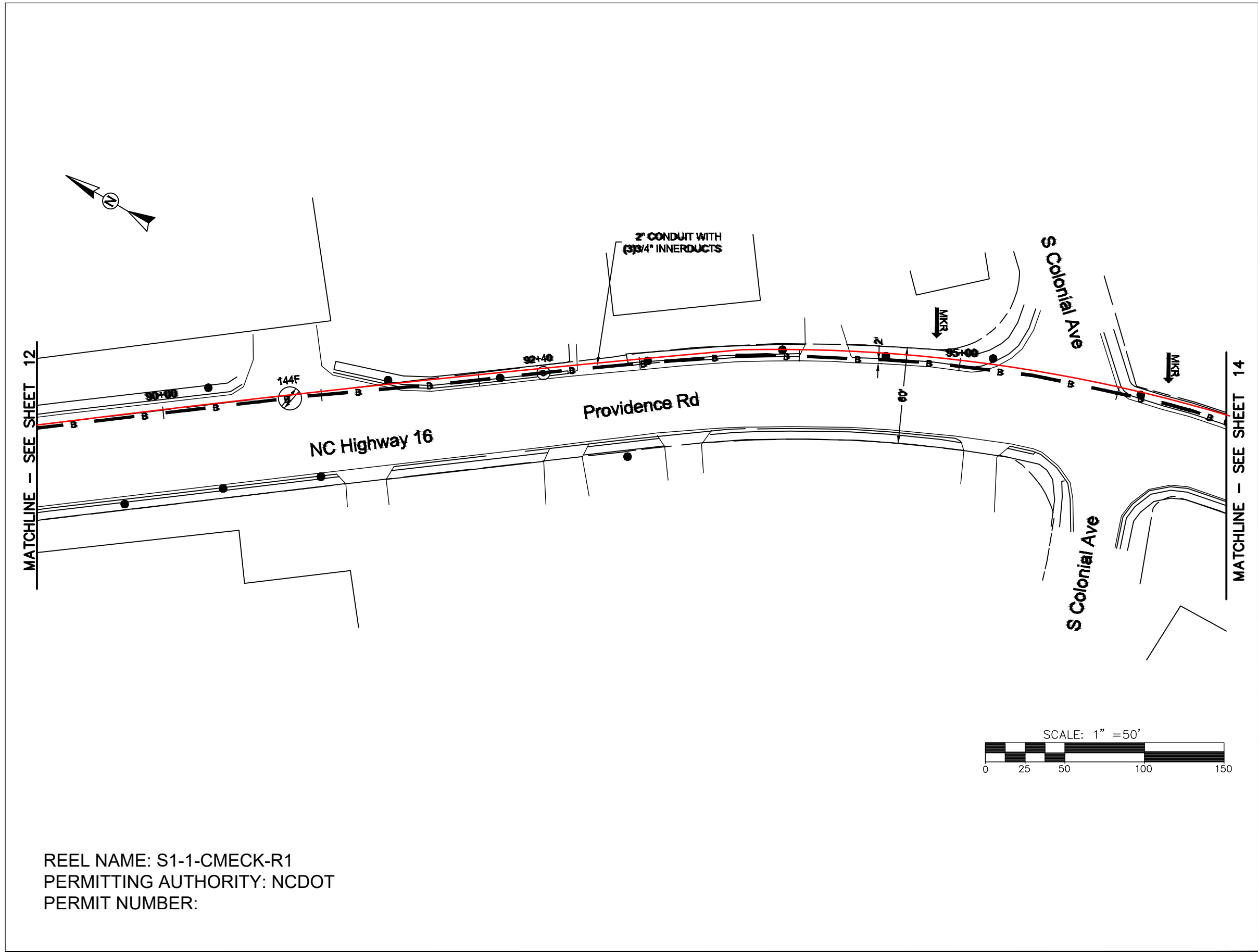
SEE DETAILS C11/C12

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CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 12 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



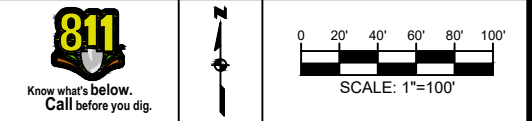
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PLACE NEW TAGGED 864F LOOPS
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SEE DETAILS C11/C12

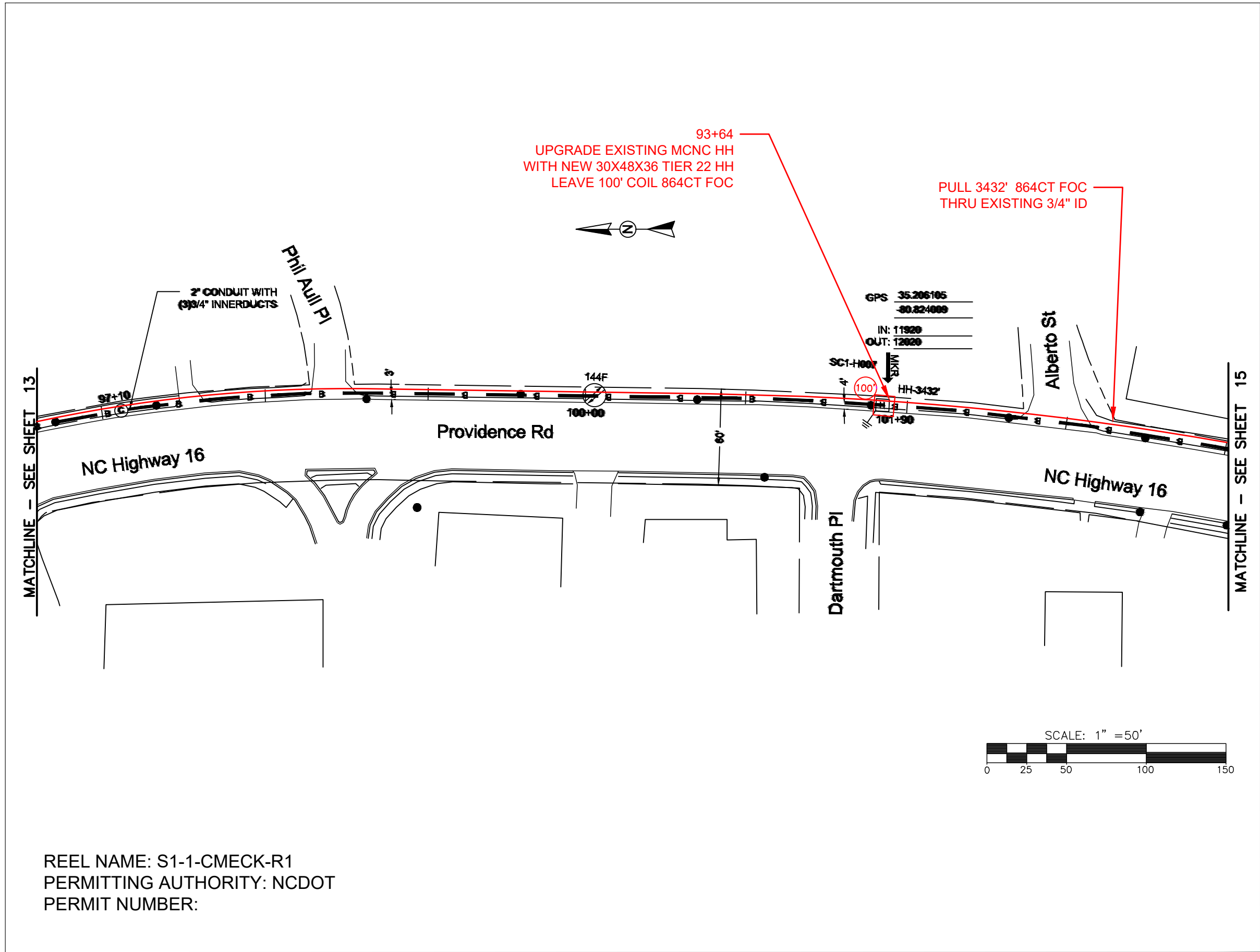


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 13 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



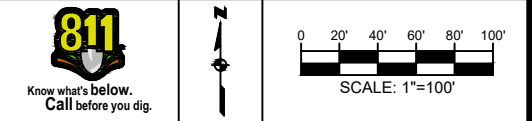
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PLACE NEW TAGGED 864F LOOPS
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SEE DETAILS C11/C12

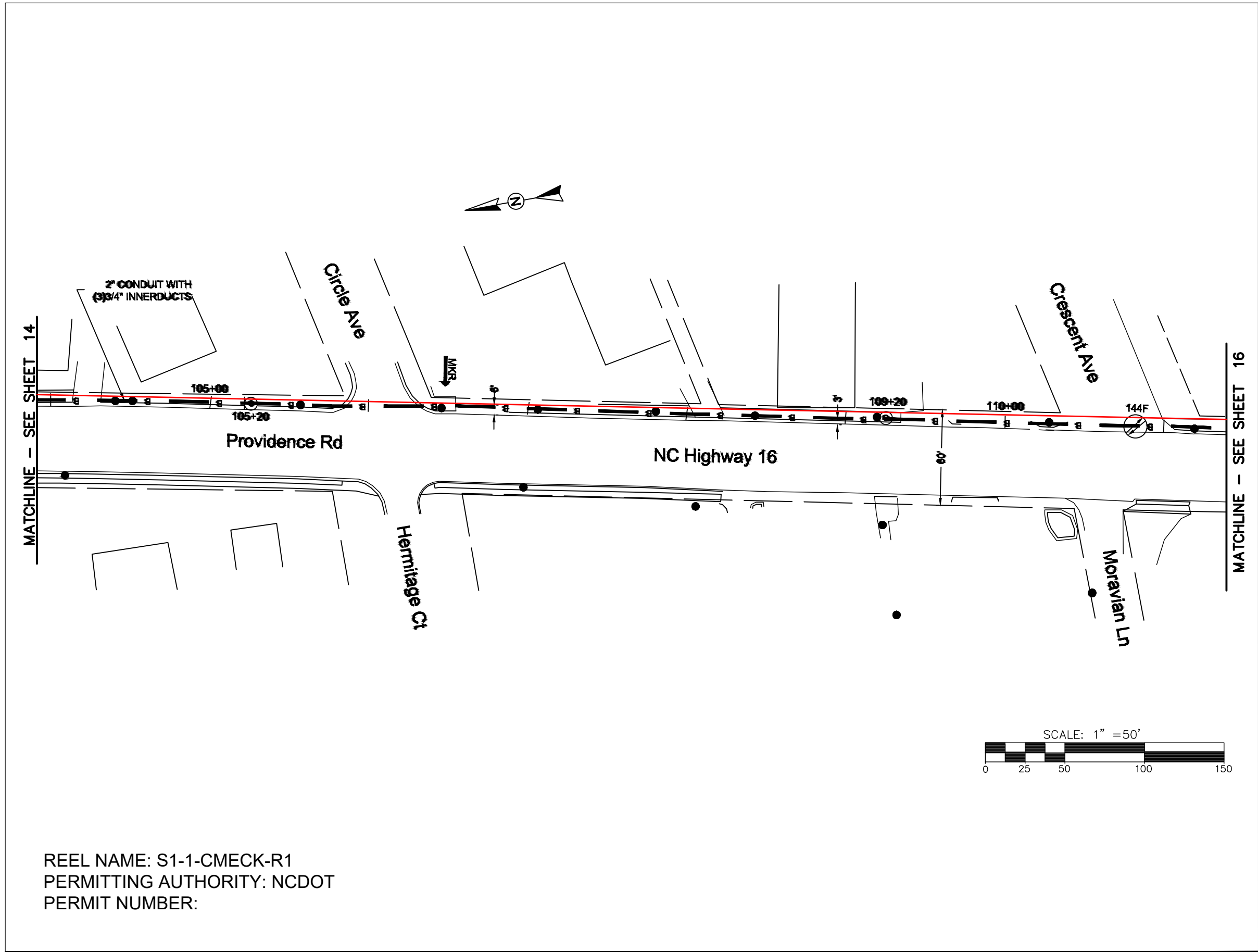


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 14 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

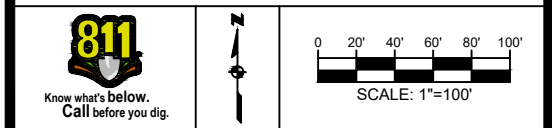
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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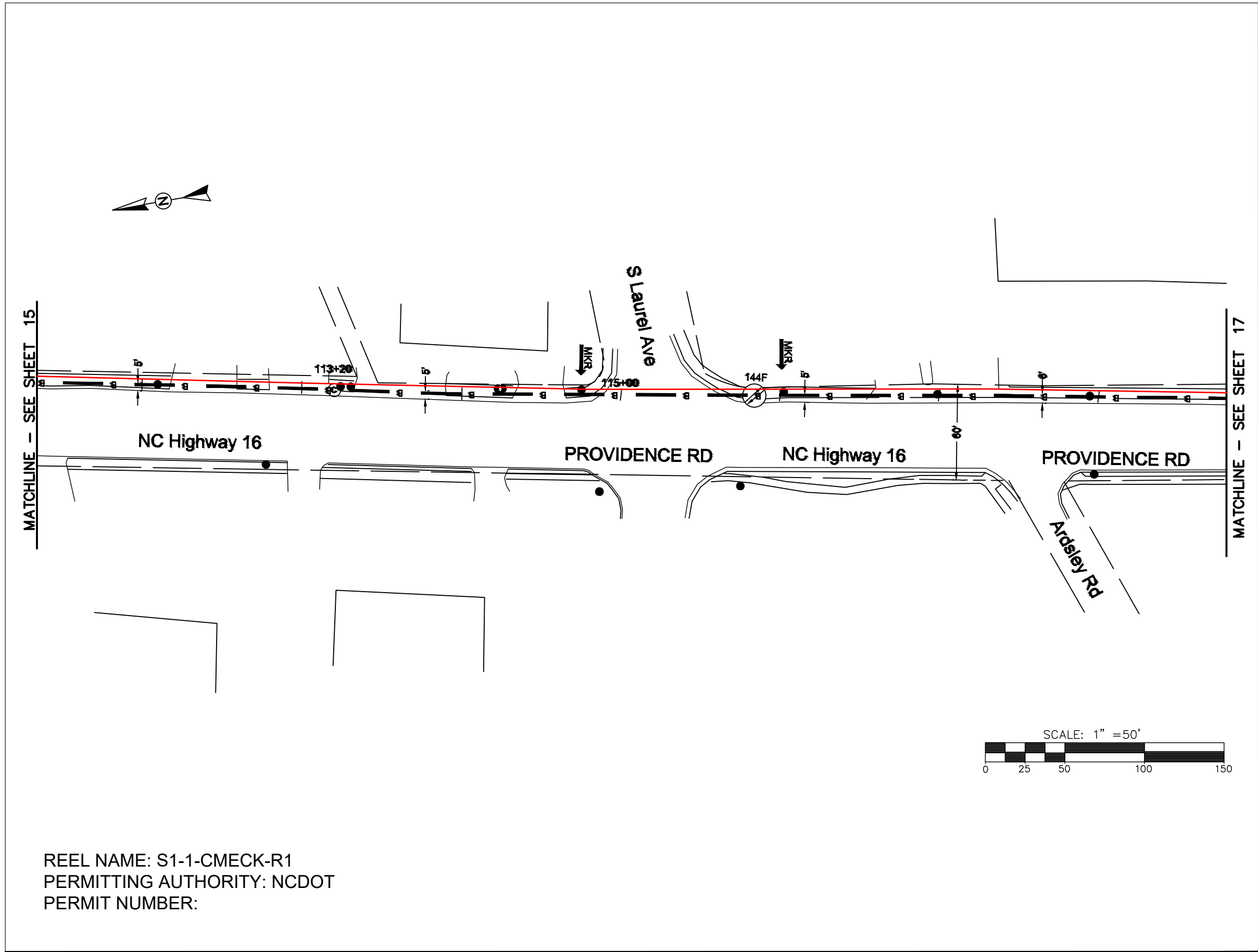


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MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 15 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

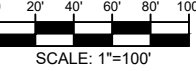


PLACE NEW TAGGED 864F LOOPS
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EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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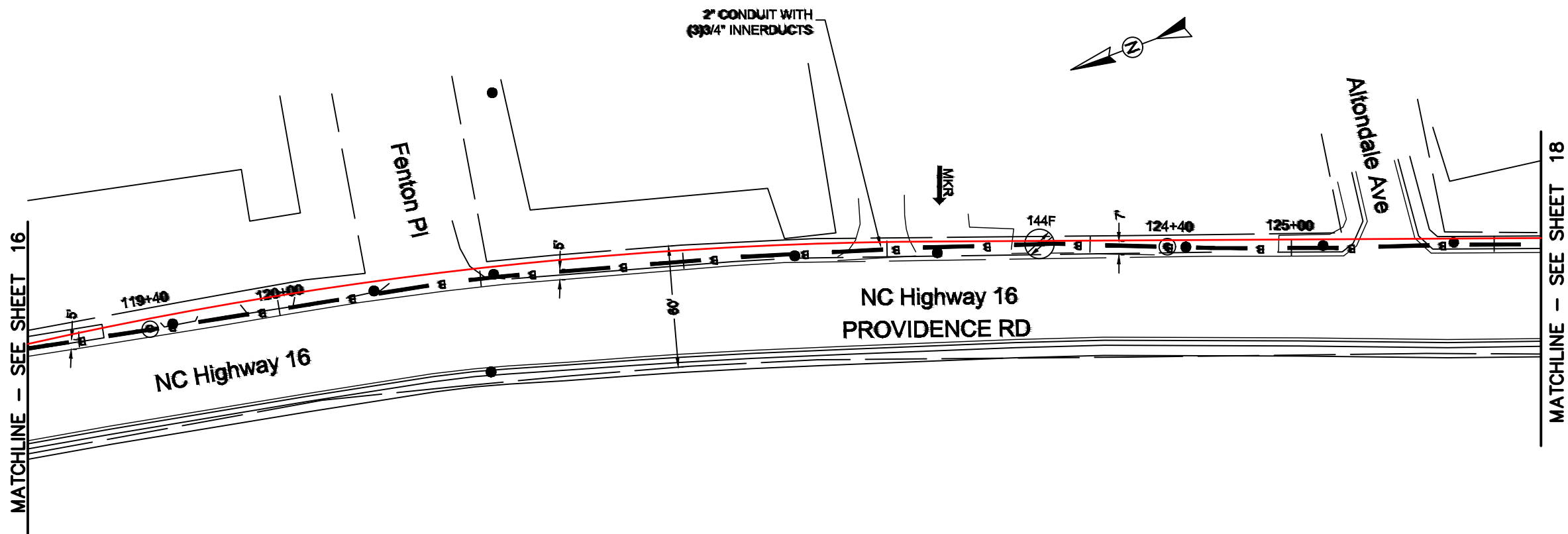


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 16 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
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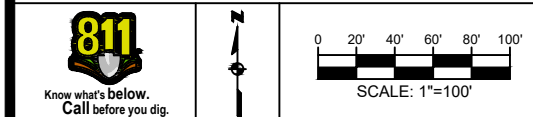
SEE DETAILS C11/C12

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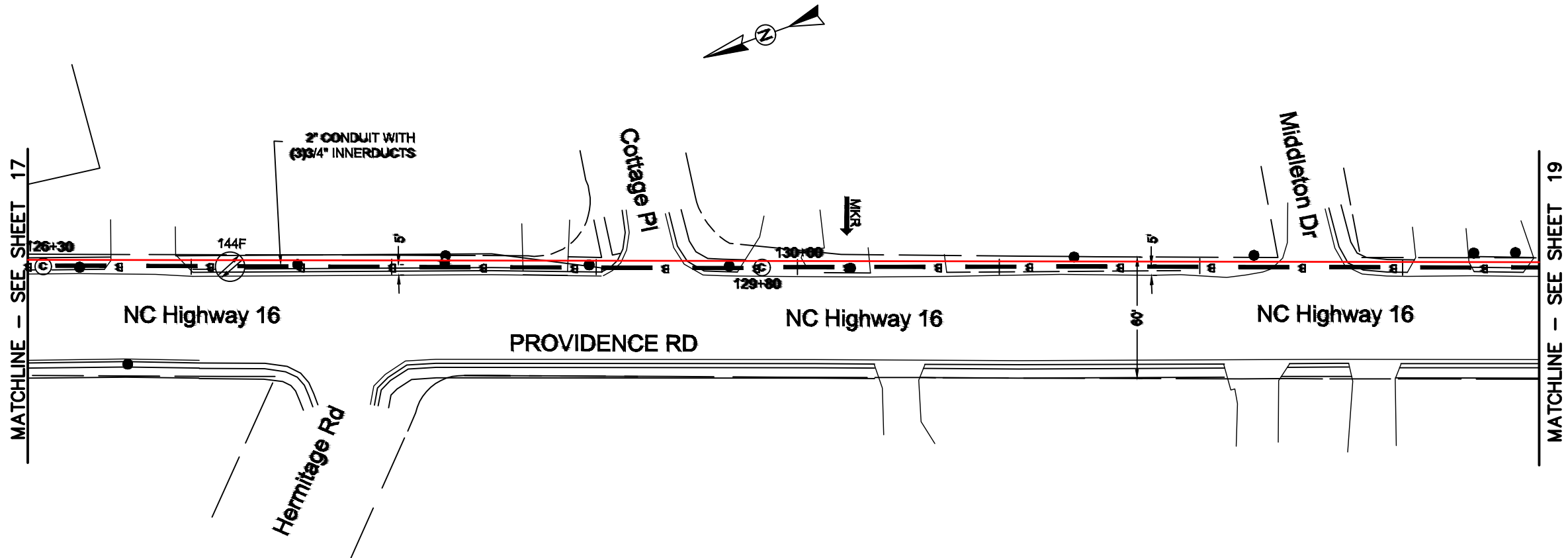
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JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 17 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

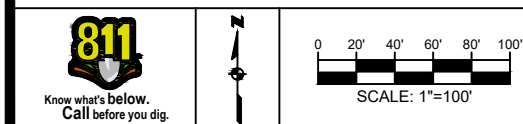
PLACE NEW TAGGED 864F LOOPS
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SEE DETAILS C11/C12

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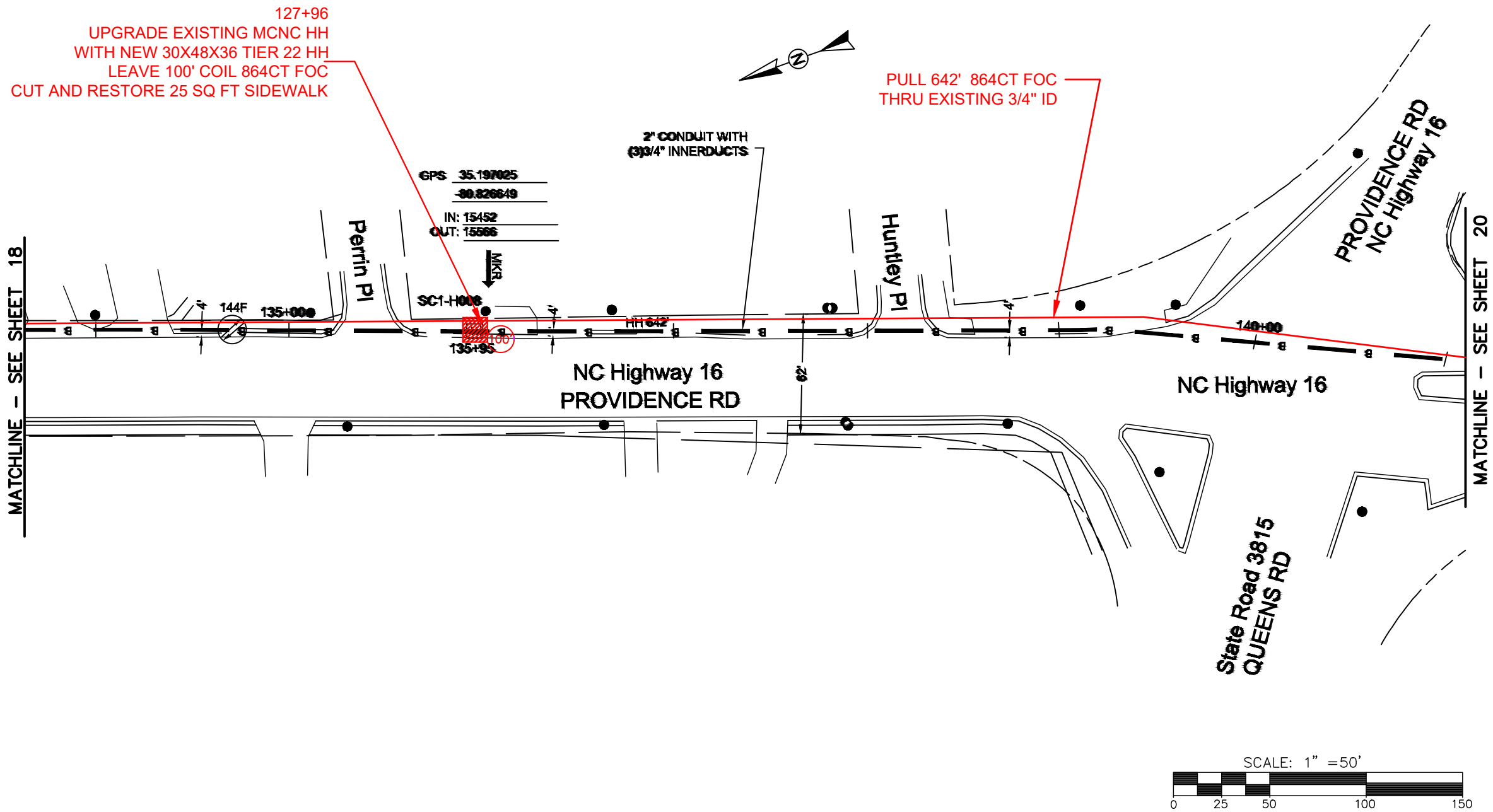


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 18 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
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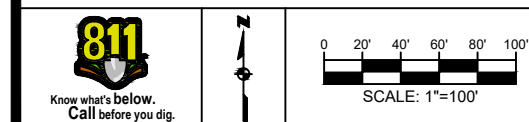
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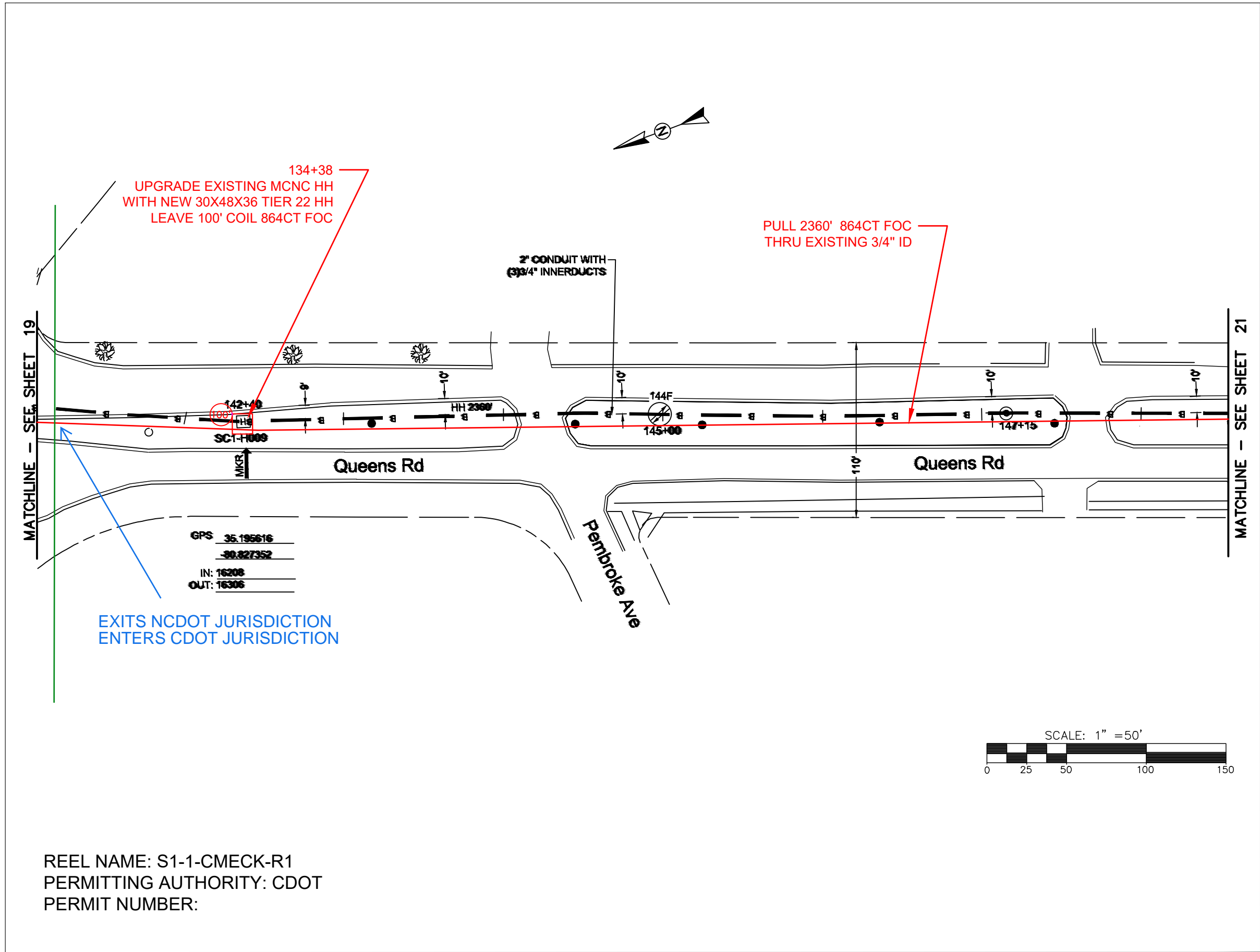
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 19 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

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CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

811

Know what's below.
Call before you dig.

N

0 20' 40' 60' 80' 100'

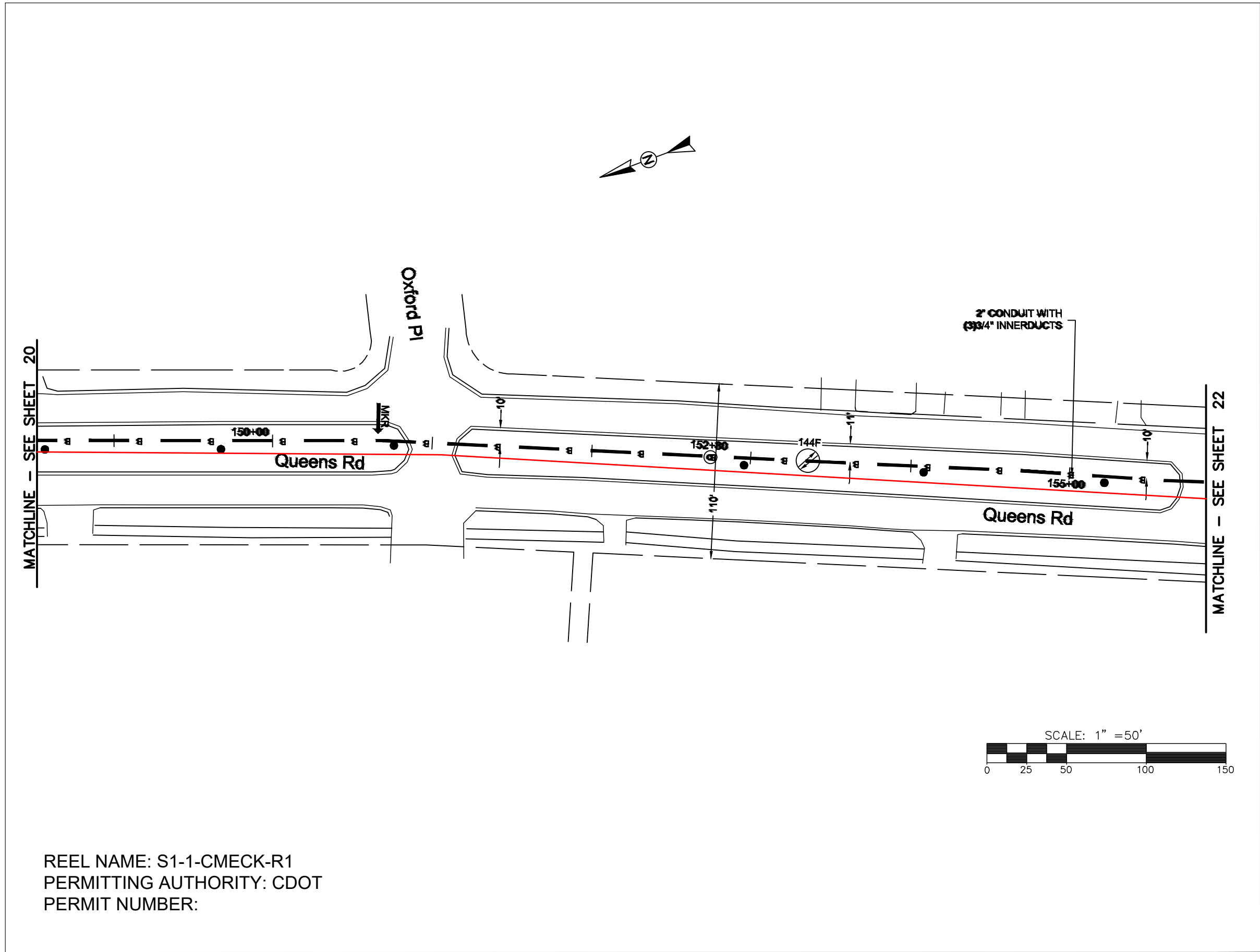
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SCALE:
NTS
PLOT DATE:
3/24/25

SHEET NUMBER:
20
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



REEL NAME: S1-1-CMECK-R1
 PERMITTING AUTHORITY: CDOT
 PERMIT NUMBER:



CONSTRUCTION NOTES:

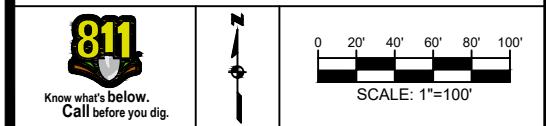
PLACE NEW TAGGED 864F LOOPS
 AT BOTTOM UNDER ALL PRE-
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SEE DETAILS C11/C12

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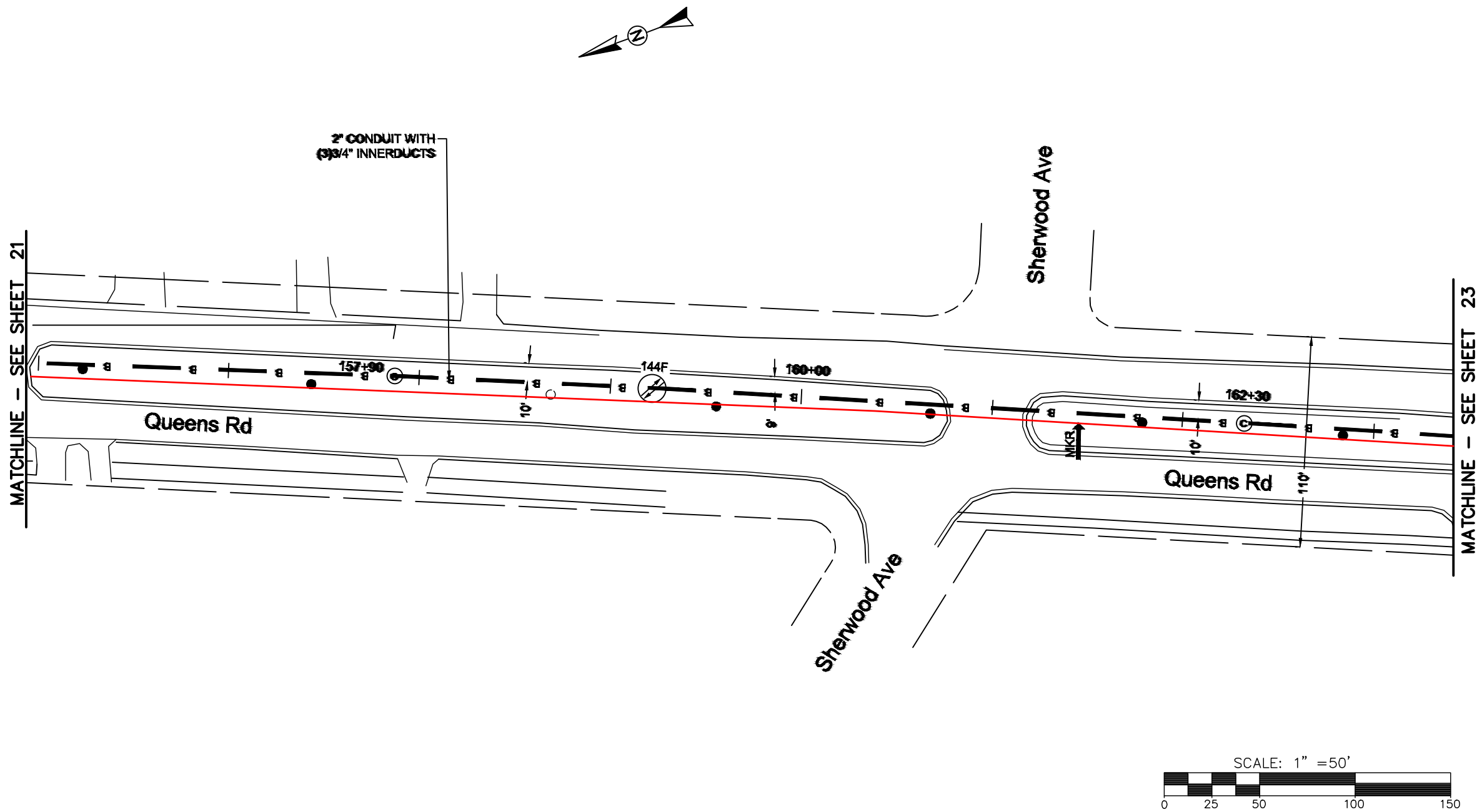


CLIENT:
 MCNC
 JOB TITLE: SEGMENT 1 ROUTE 1
 JOB LOCATION: CHARLOTTE-POLKTON
 DESIGNER:
 R.B.
 DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 21 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



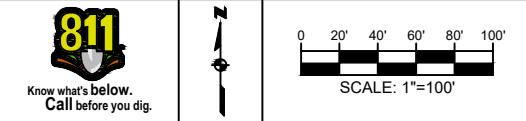
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PLACE NEW TAGGED 864F LOOPS
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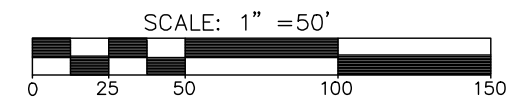
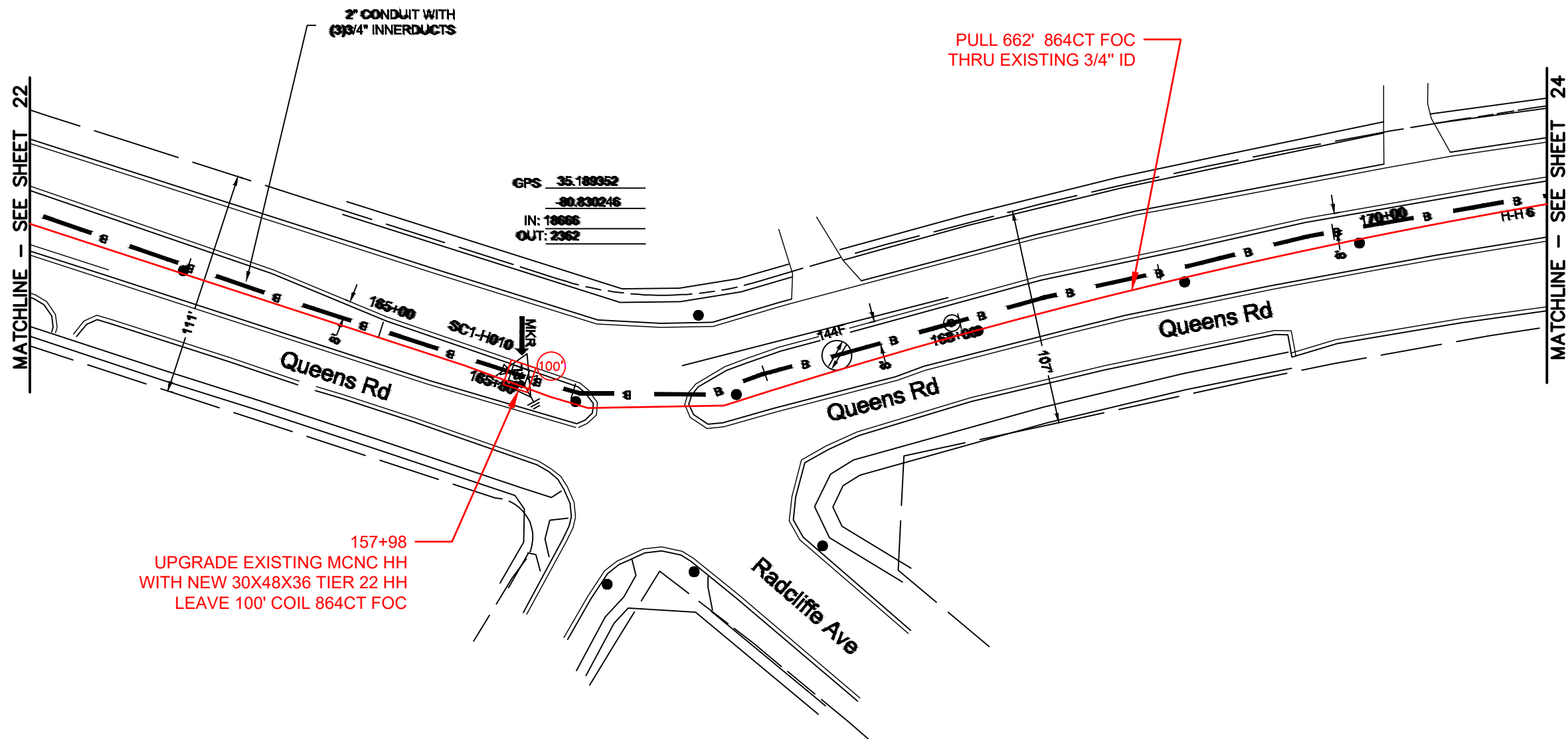
SEE DETAILS C11/C12



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 22 OF 220



REEL NAME: S1-1-CMECK-R1
 PERMITTING AUTHORITY: CDOT
 PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
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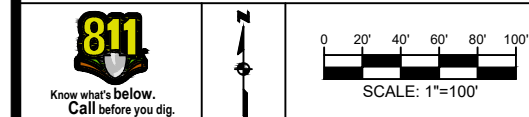
SEE DETAILS C11/C12

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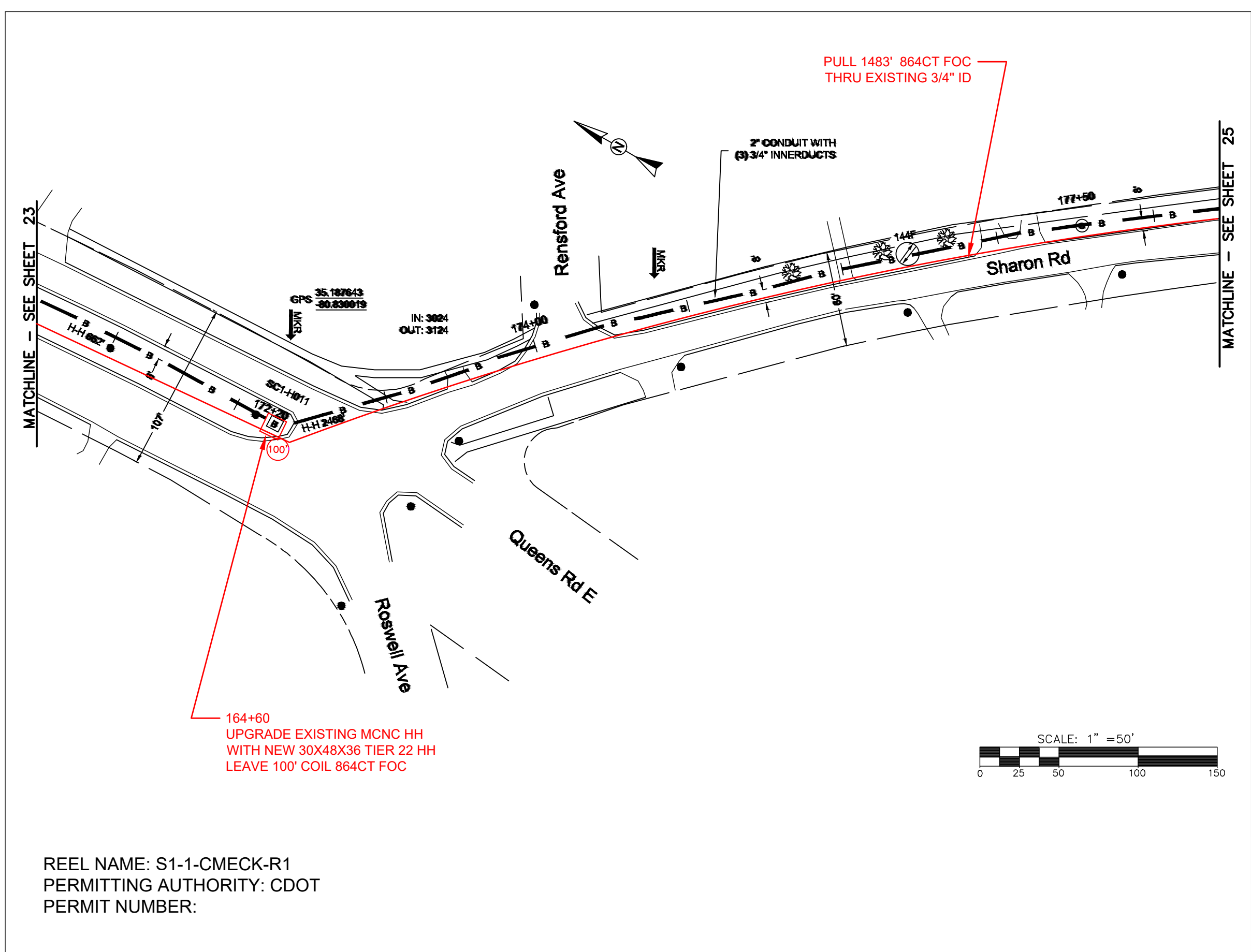
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 JOB TITLE: SEGMENT 1 ROUTE 1
 JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
 R.B.
 DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 23 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

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CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

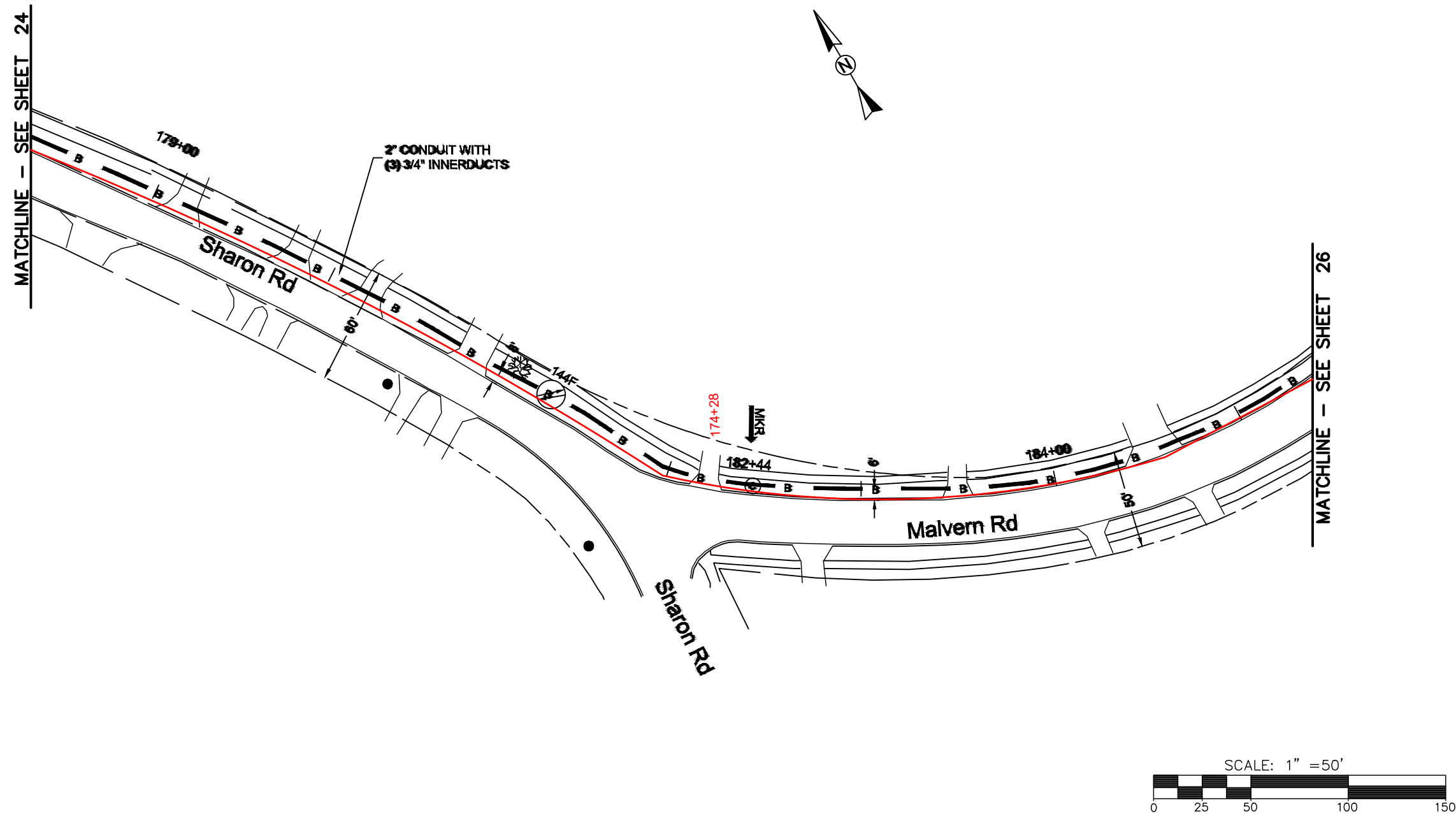
DESIGNER:
R.B.

DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 24 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

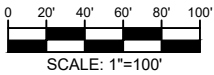


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

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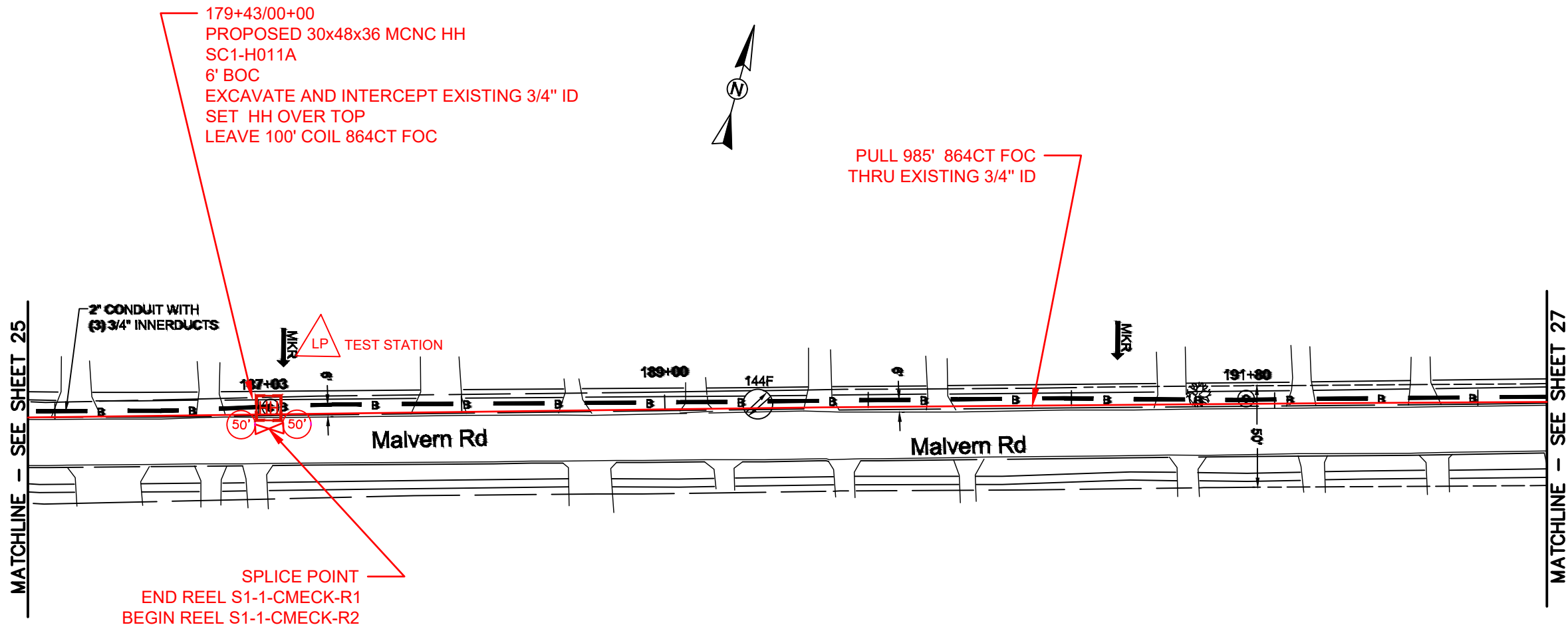


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 25 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R1/ S1-1-CMECK-R2
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

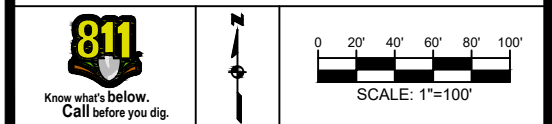
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

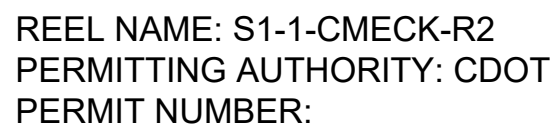


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

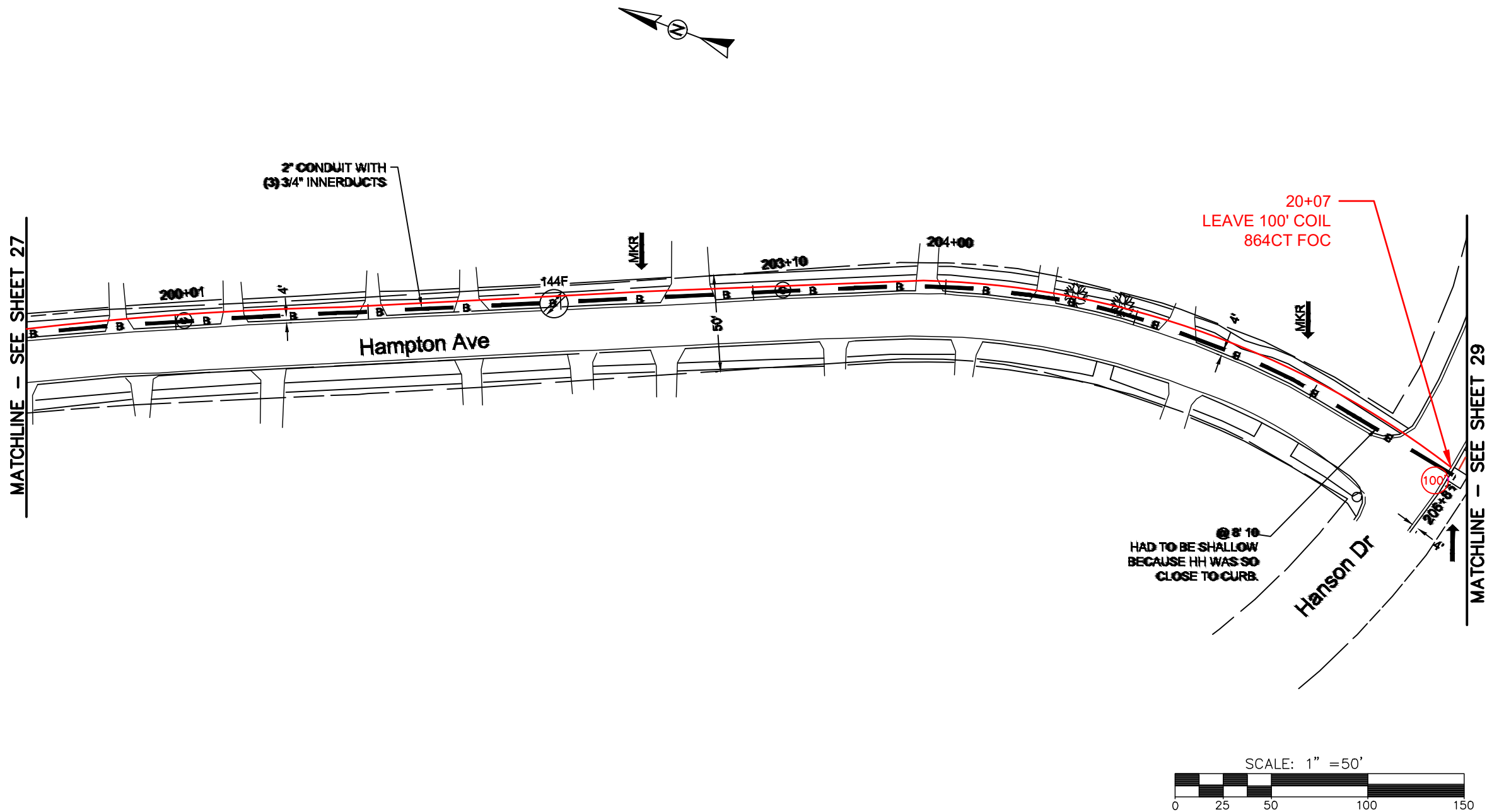


SCALE: NTS	SHEET NUMBER: 26 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



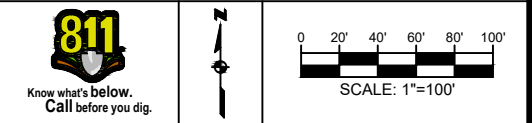
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

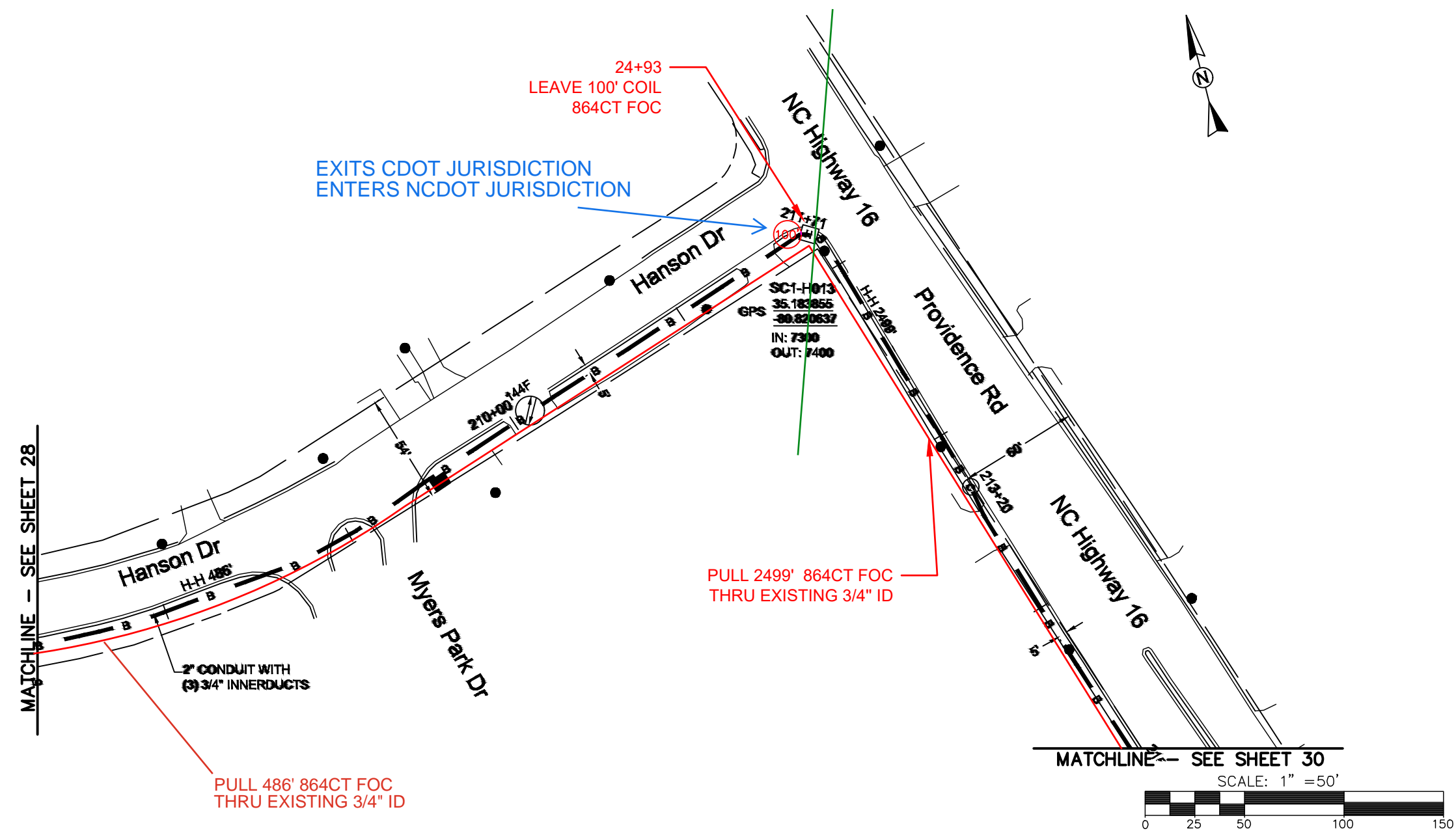


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 28 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: CDOT/NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

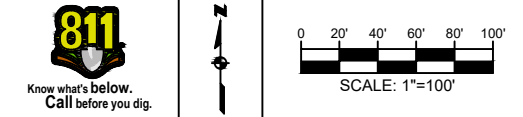
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

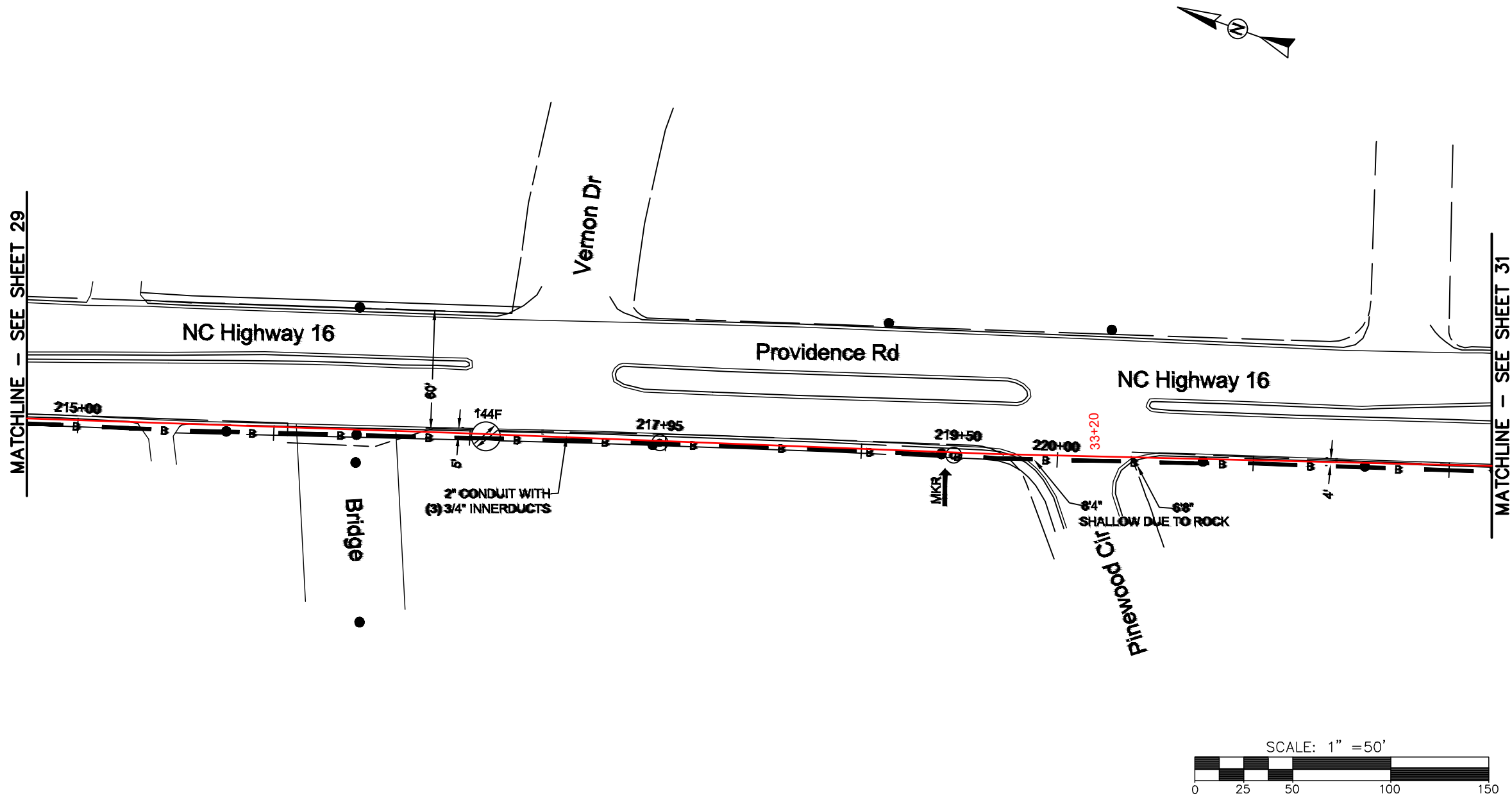


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 29 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



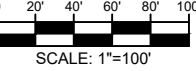


REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

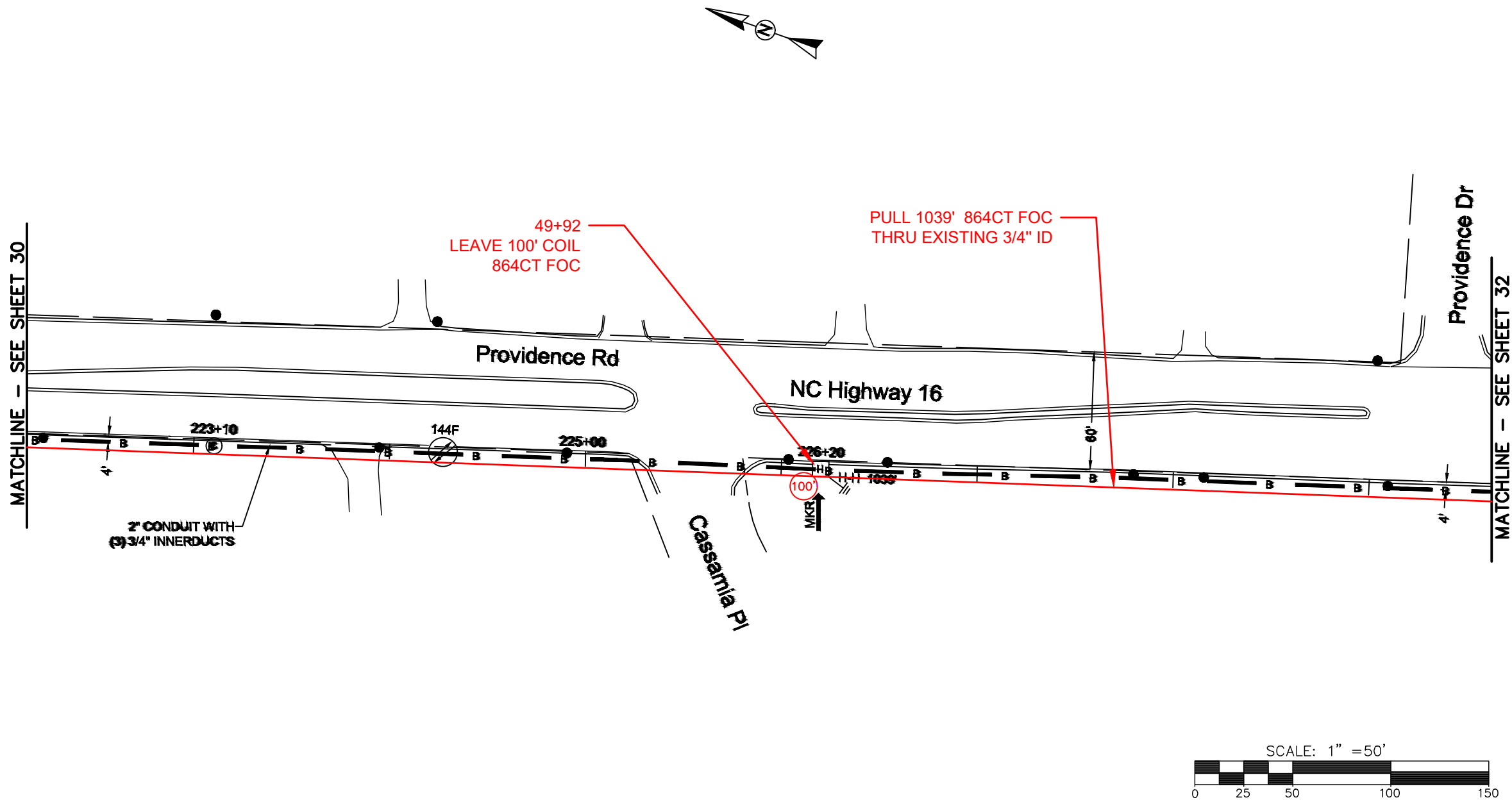
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 30 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:




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CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY




CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1


JOB LOCATION: CHARLOTTE-POLKTON

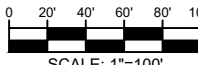
DESIGNER:
R.B.

DATE: 3/24/25



Know what's below.
Call before you dig.





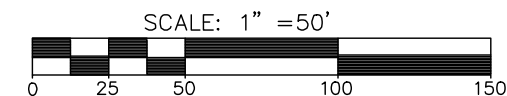
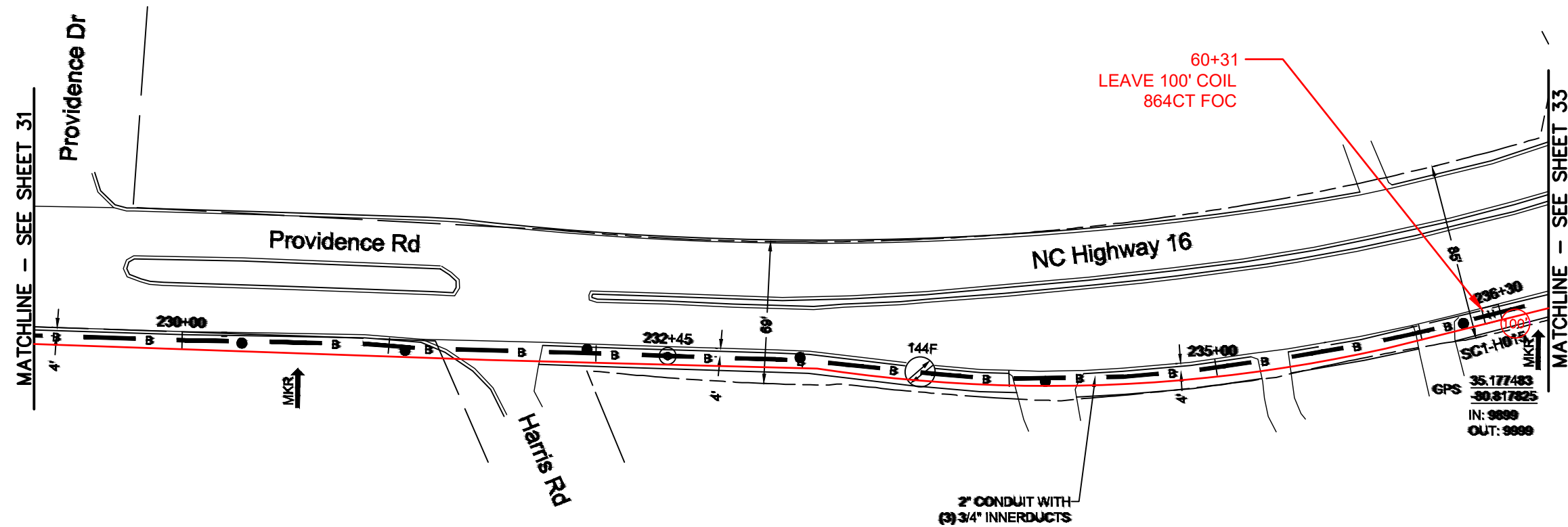
SCALE: 1"=100'

SCALE:
NTS

PLOT DATE:
3/24/25

SHEET NUMBER:
31
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
 PERMITTING AUTHORITY: NCDOT
 PERMIT NUMBER:

CONSTRUCTION NOTES:

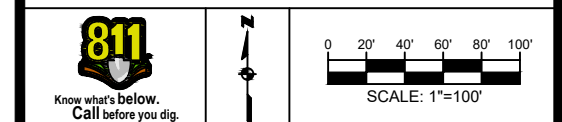
PLACE NEW TAGGED 864F LOOPS
 AT BOTTOM UNDER ALL PRE-
 EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

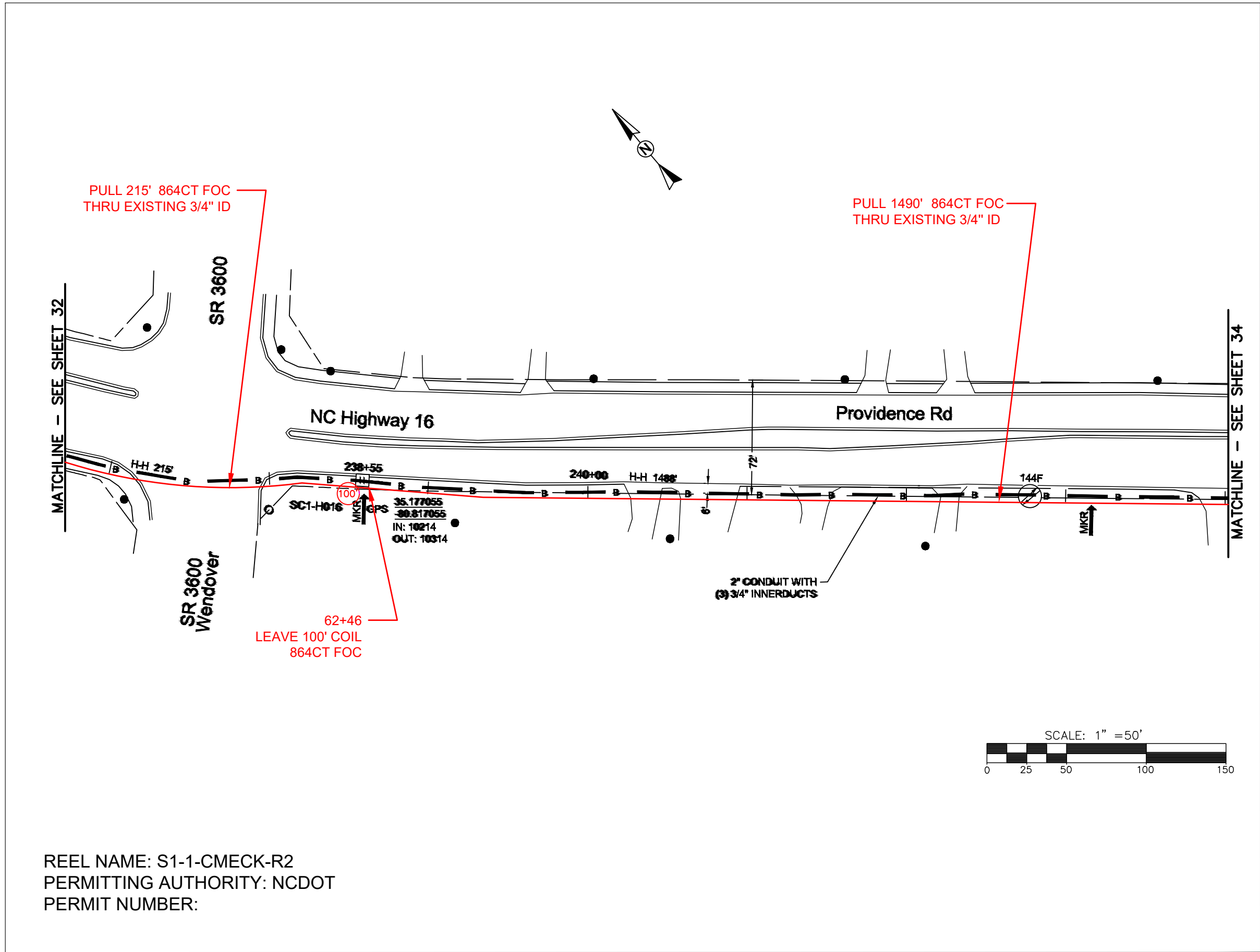


CLIENT:
 MCNC
 JOB TITLE: SEGMENT 1 ROUTE 1
 JOB LOCATION: CHARLOTTE-POLKTON
 DESIGNER:
 R.B.
 DATE: 3/24/25



SCALE: NTS
 PLOT DATE: 3/24/25
 SHEET NUMBER: 32 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

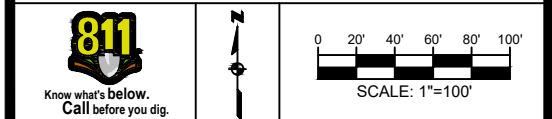
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



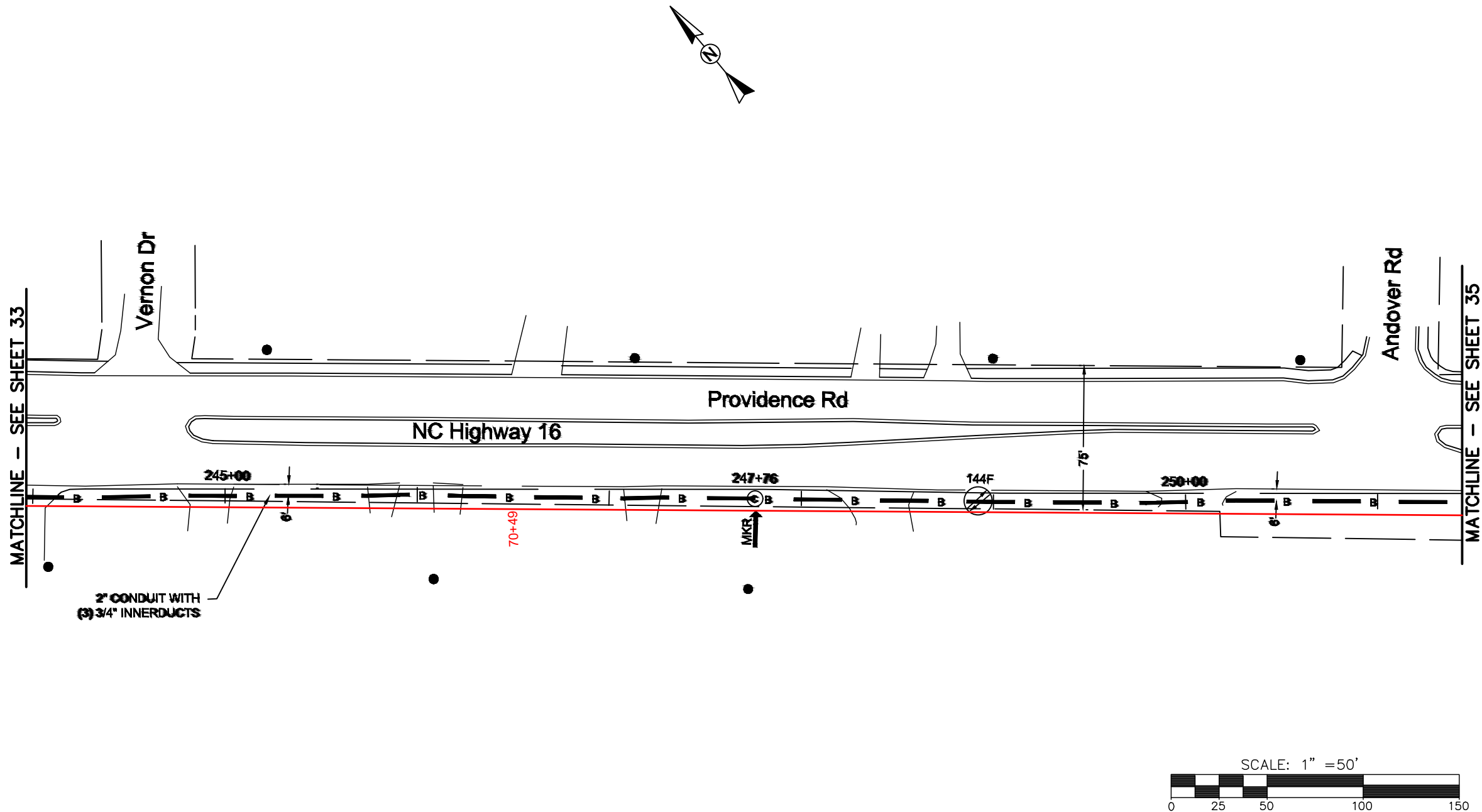
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 33 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

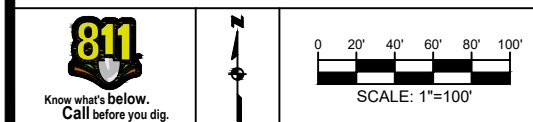
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

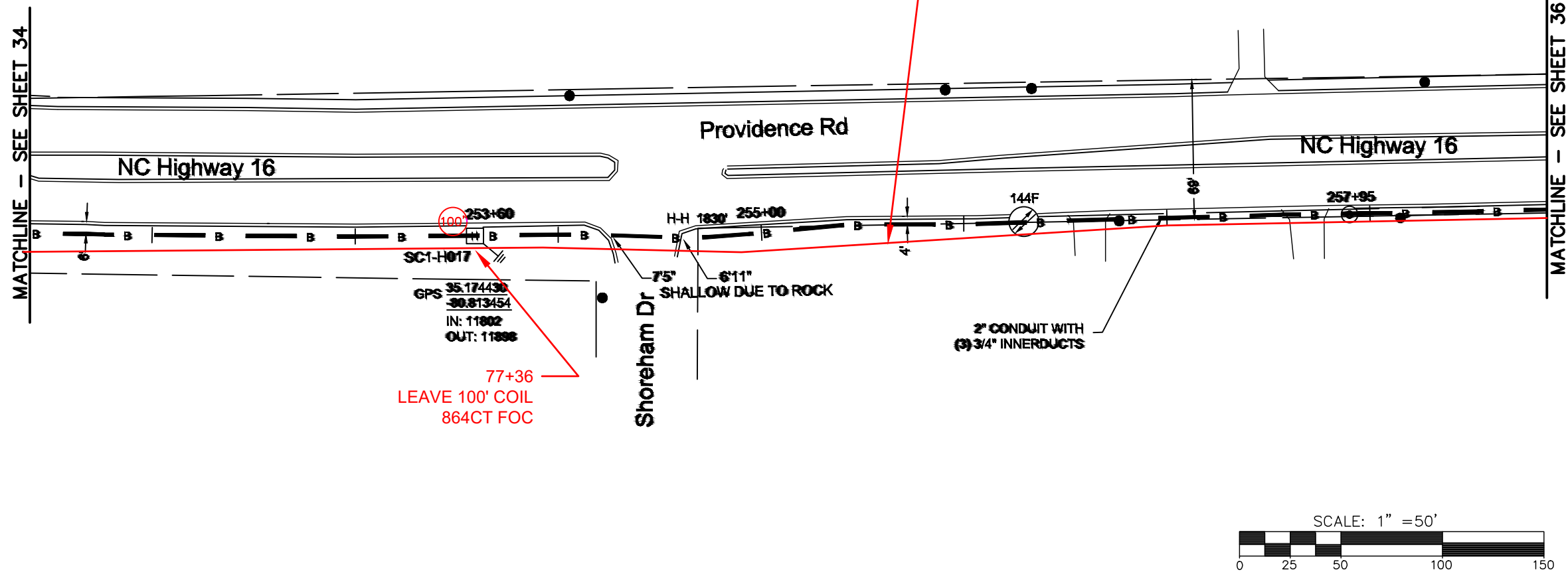
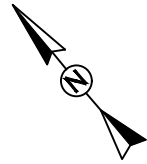


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 34 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

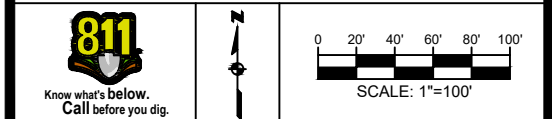
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



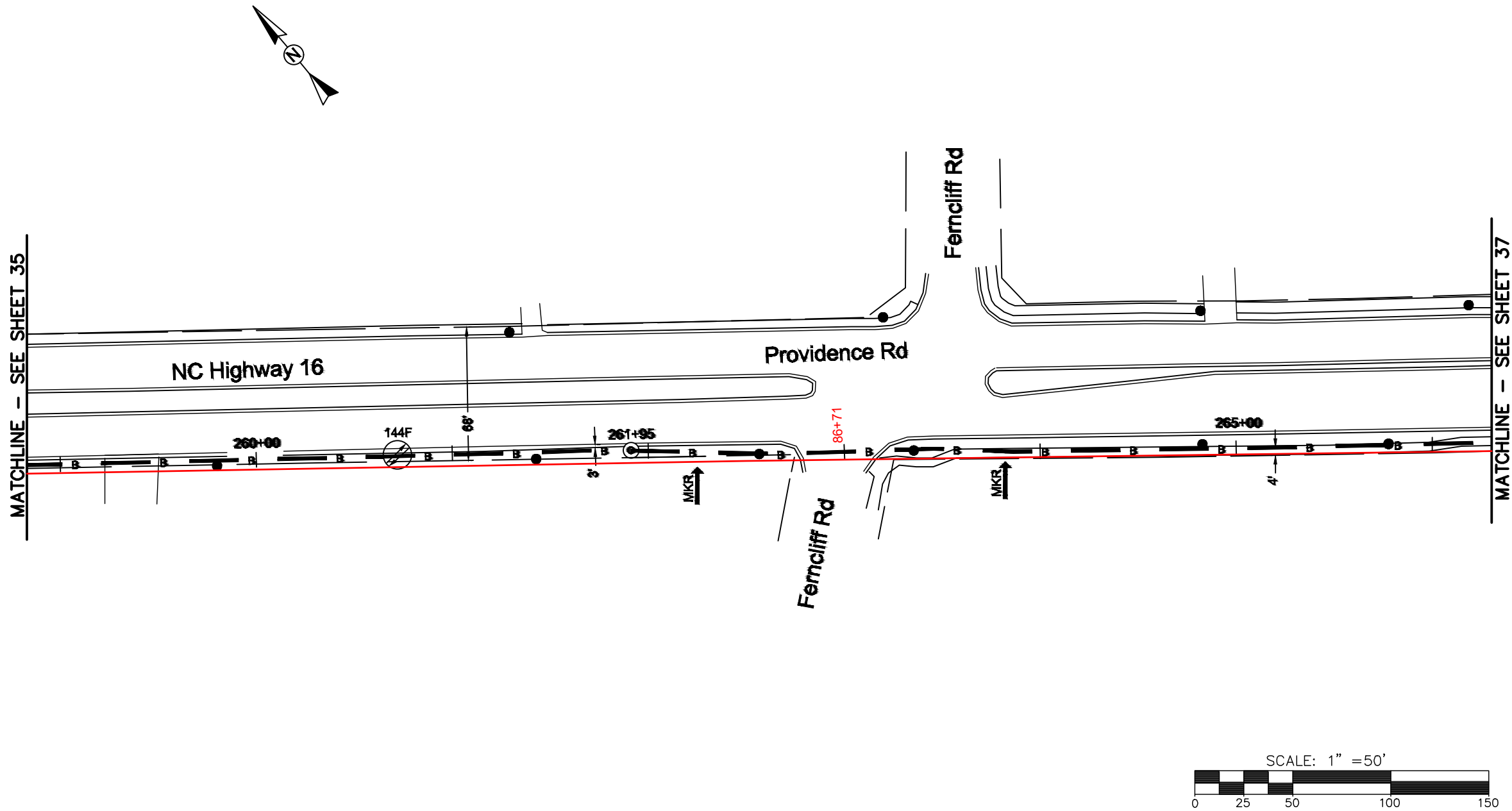
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 35 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



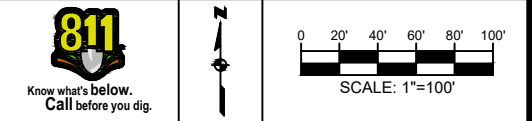
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PLACE NEW TAGGED 864F LOOPS
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EXISTING FIBER CABLES.

SEE DETAILS C11/C12

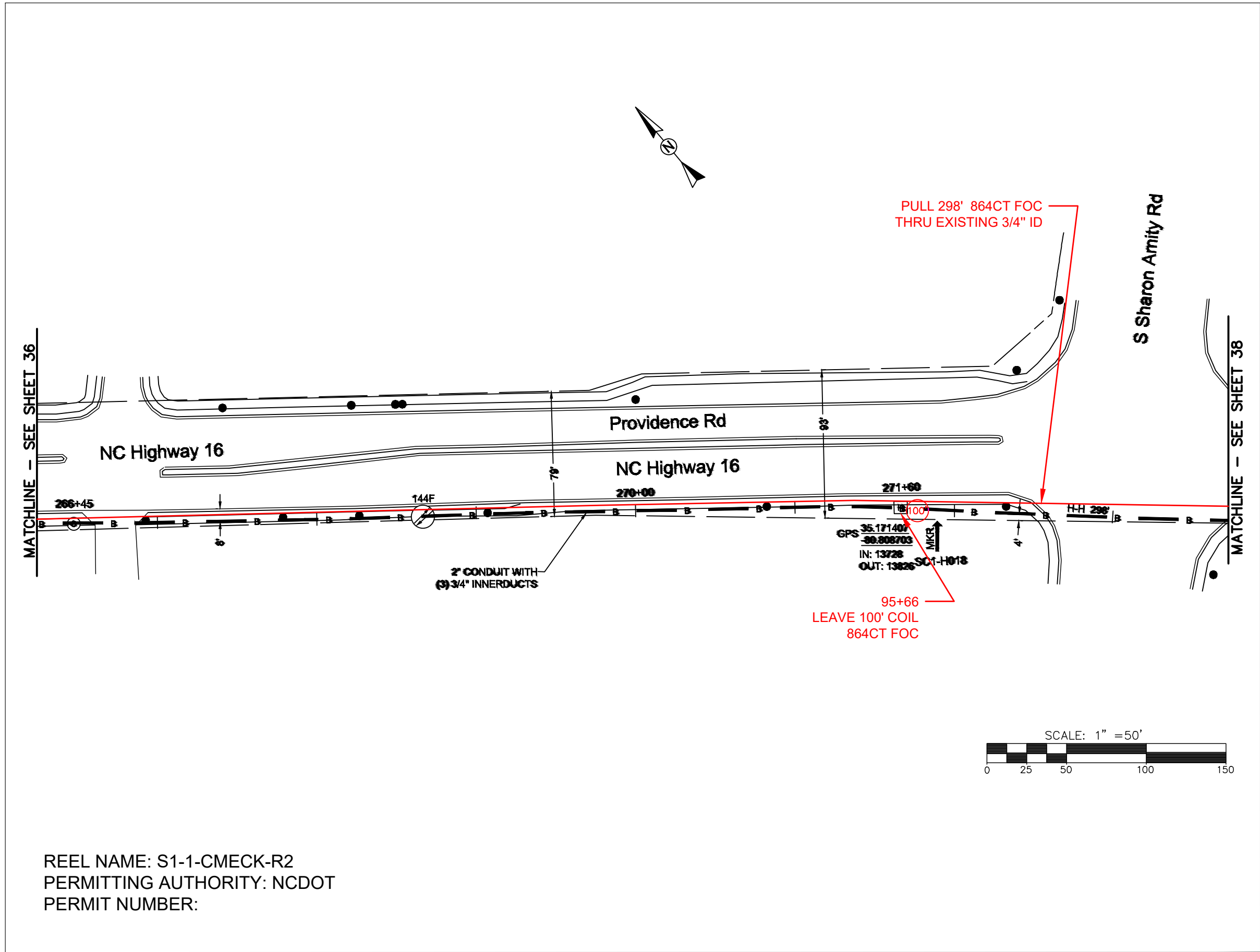


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 36 OF 220
PLOT DATE: 3/24/25	



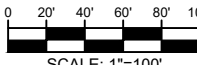
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

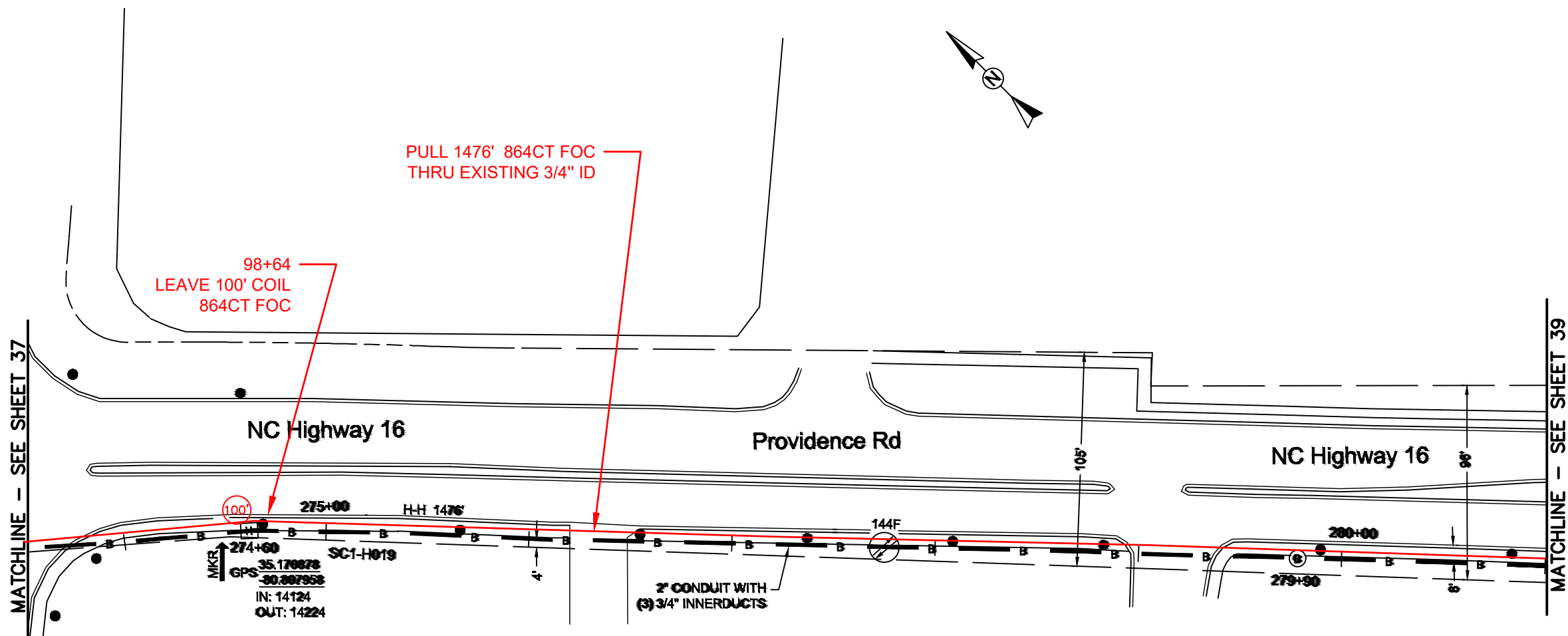


CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
	
	
SCALE: NTS	SHEET NUMBER: 37 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

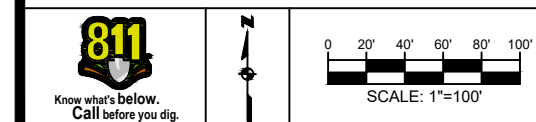
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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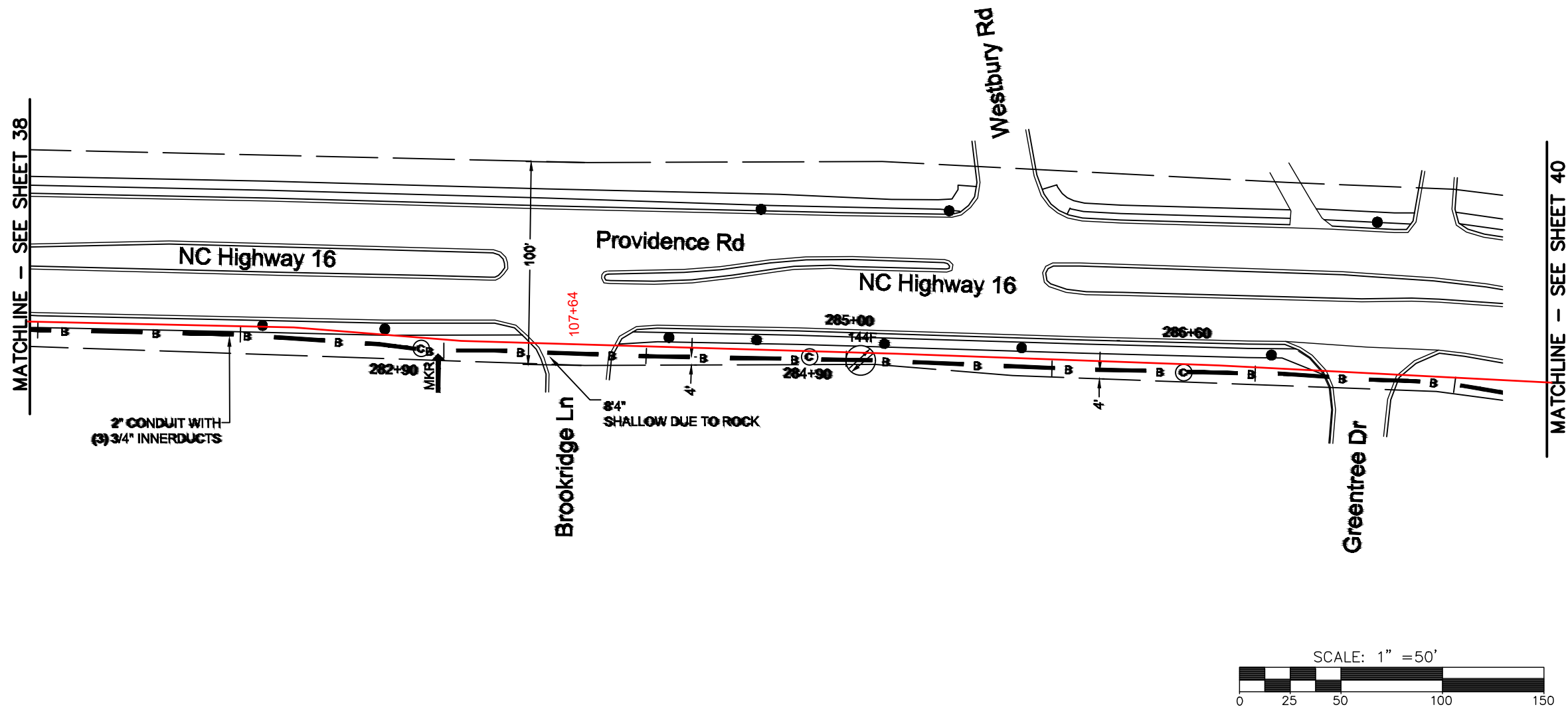
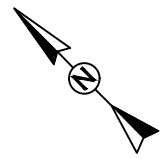


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 38 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

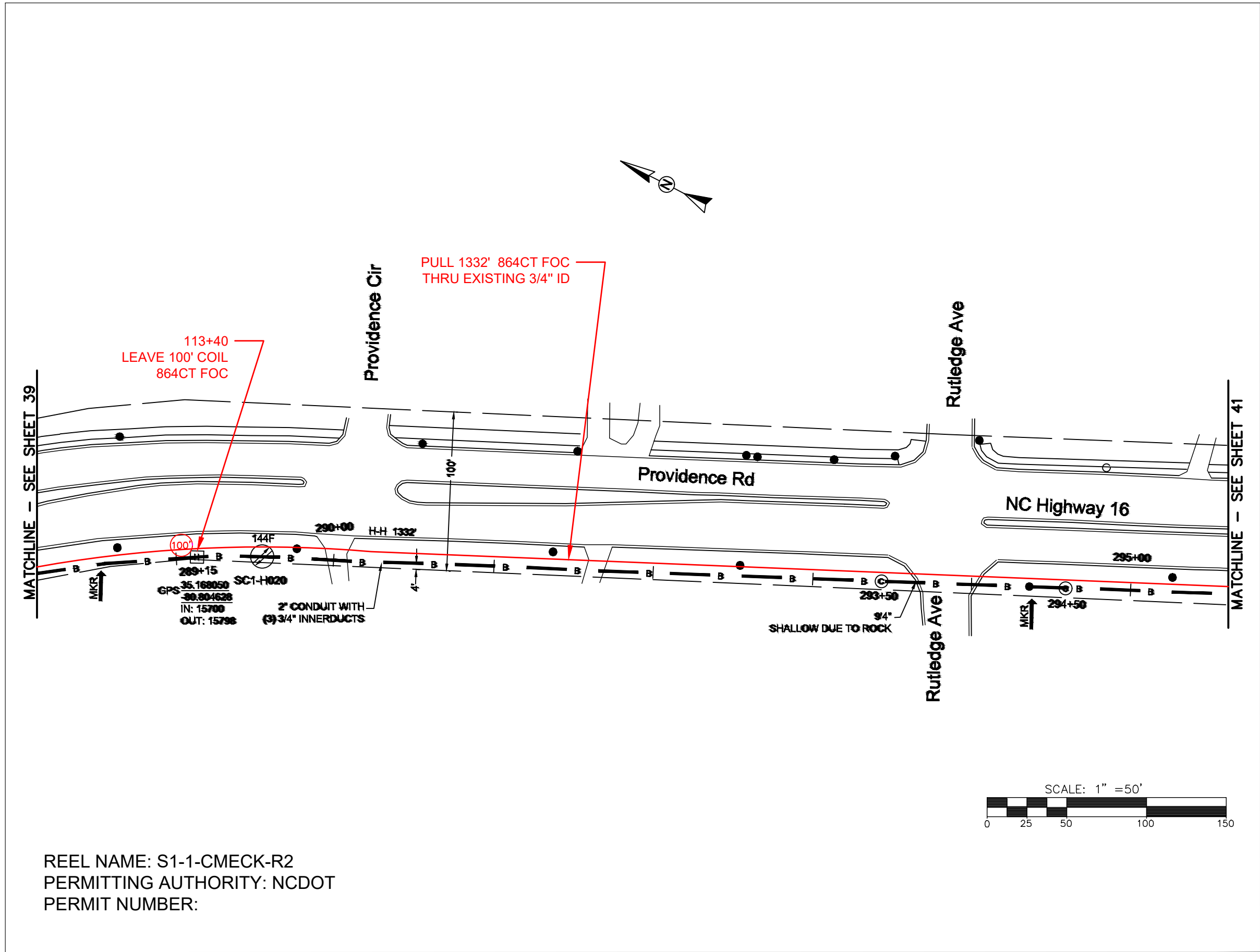


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 39 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



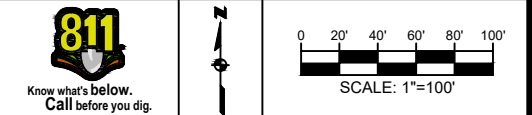
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PERMIT NUMBER:

CONSTRUCTION NOTES:

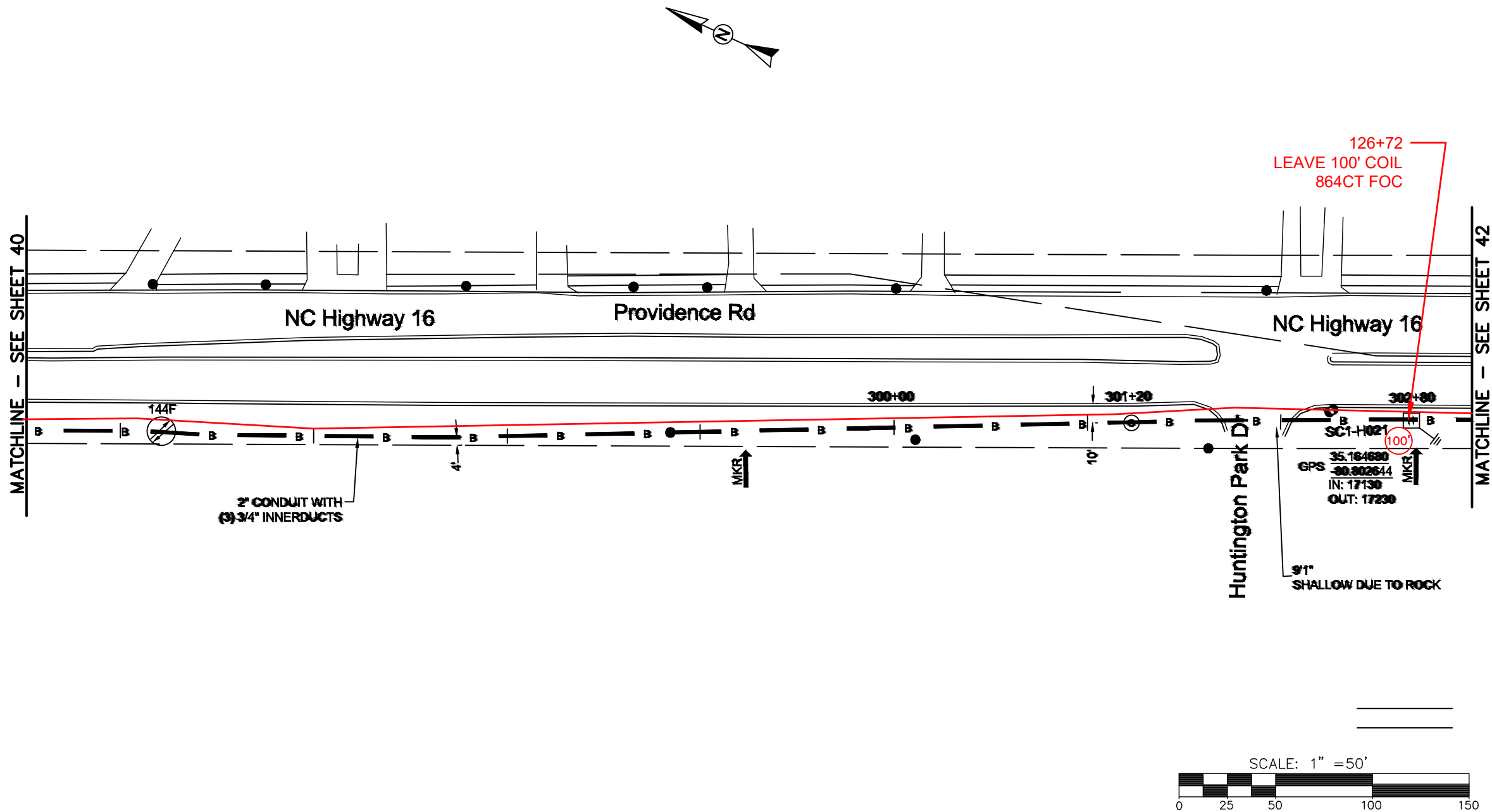
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 40 OF 220



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



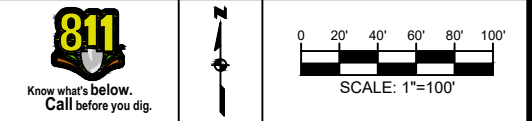
CONSTRUCTION NOTES:

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SEE DETAILS C11/C12

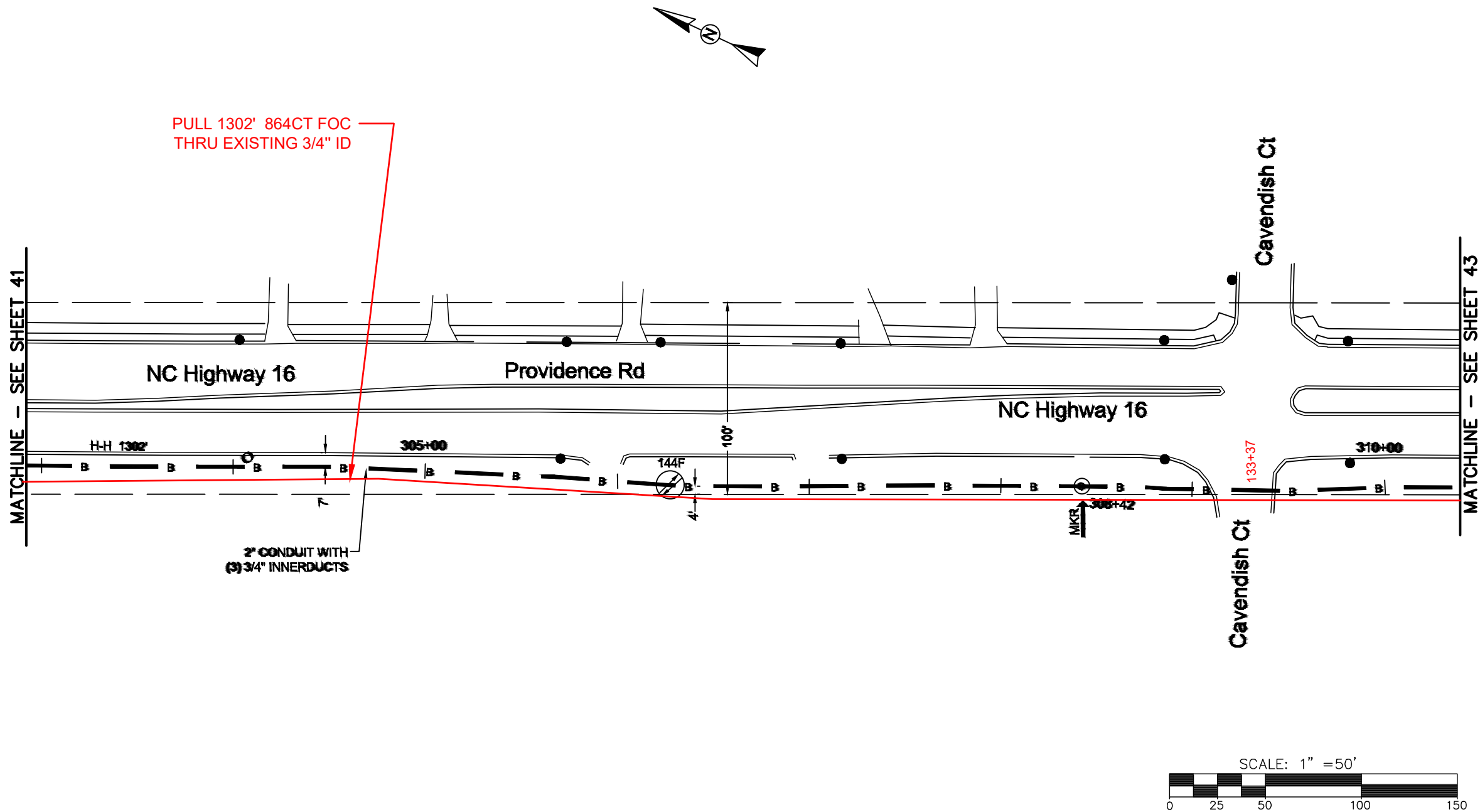


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 41 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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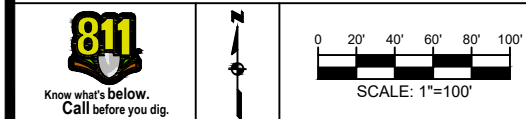
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



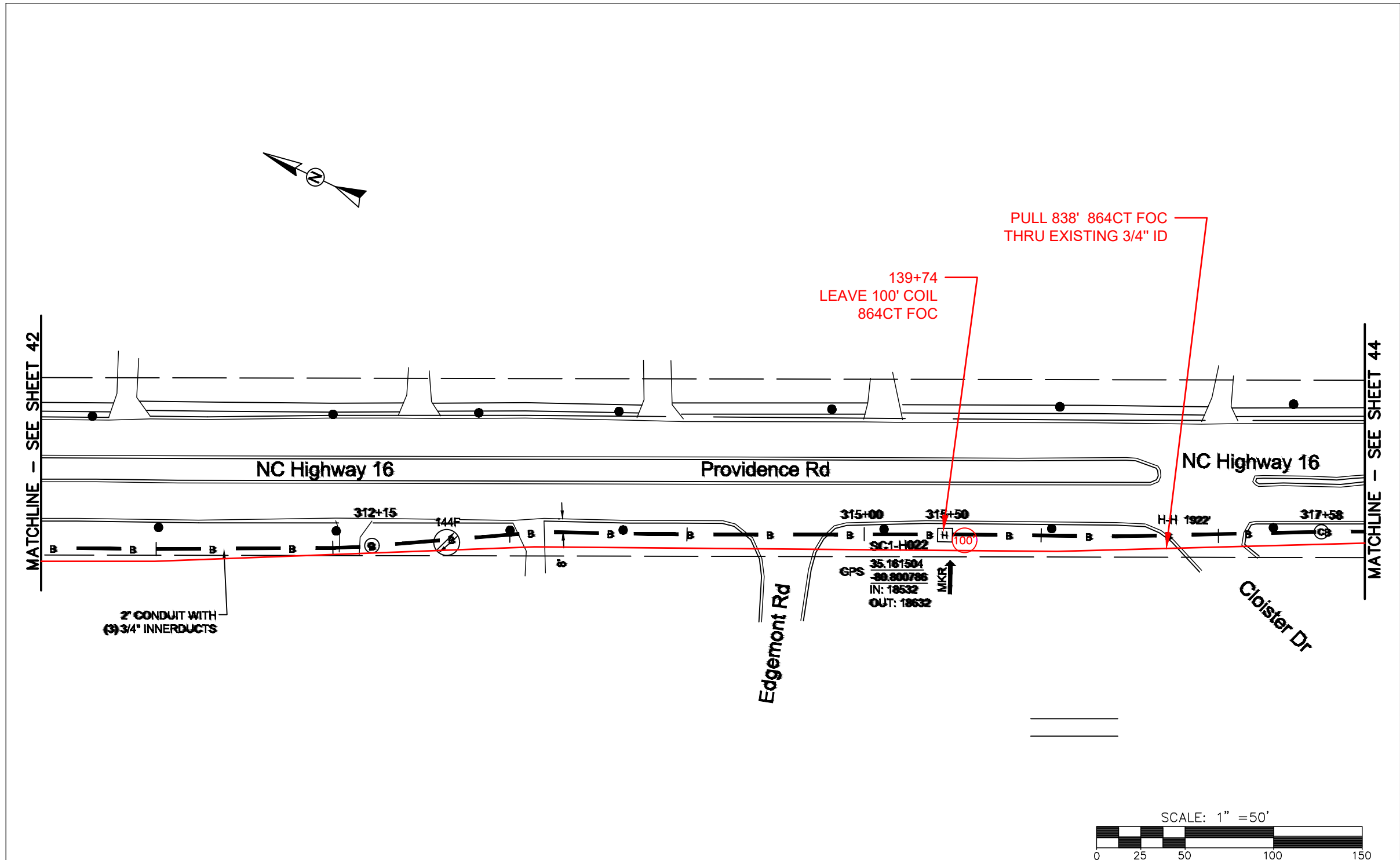
CLIENT:
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 42 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.


SEE DETAILS C11/C12

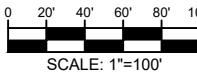
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CLIENT:
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

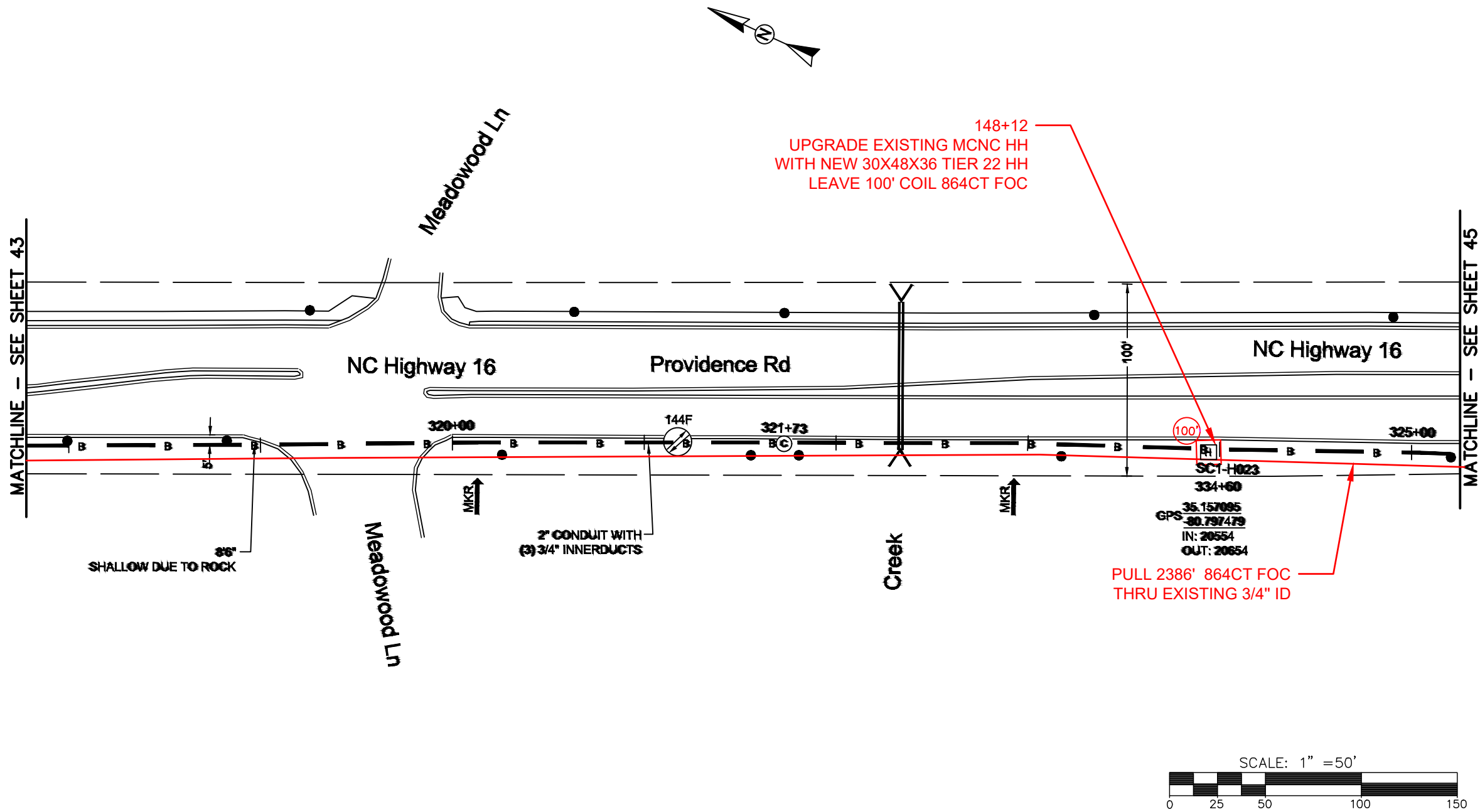






SCALE: NTS	SHEET NUMBER: 43 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:






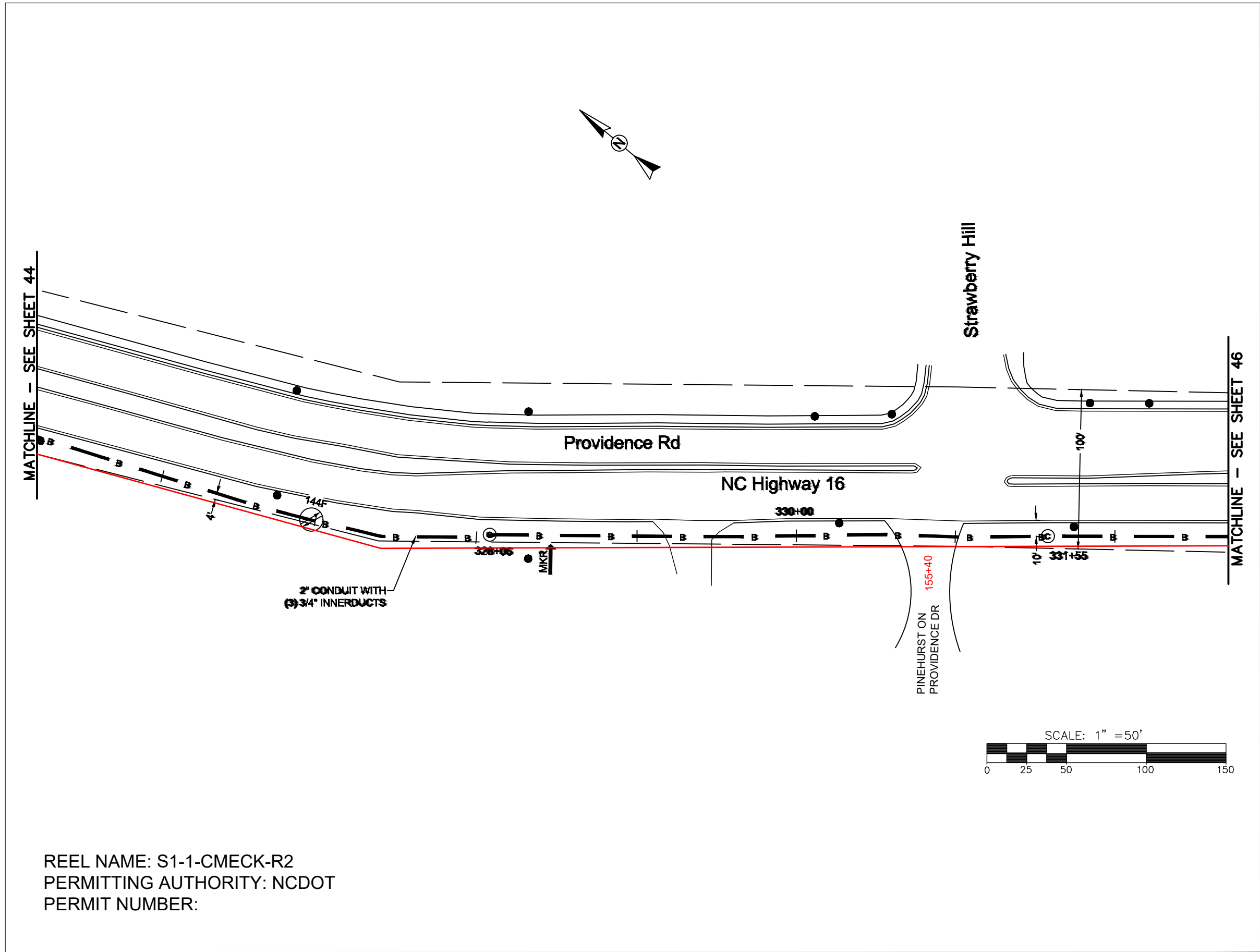
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
		 SCALE: 1"=100'
SCALE: NTS	SHEET NUMBER: 44 OF 220	
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



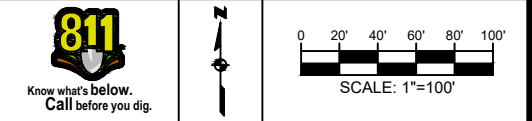
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 45 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

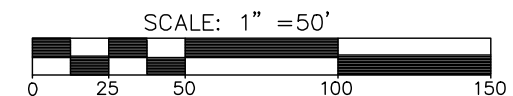
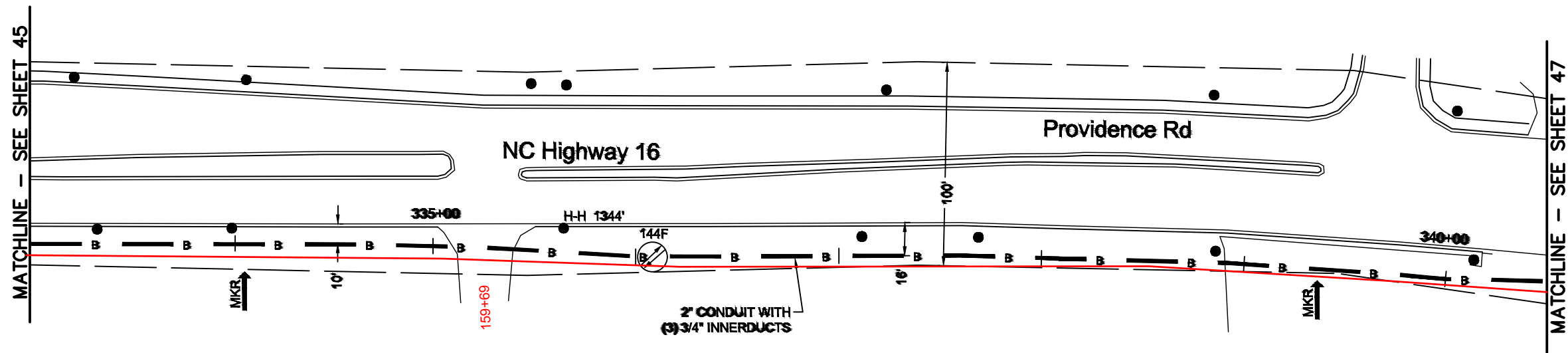
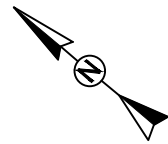
SHEET NUMBER:

46

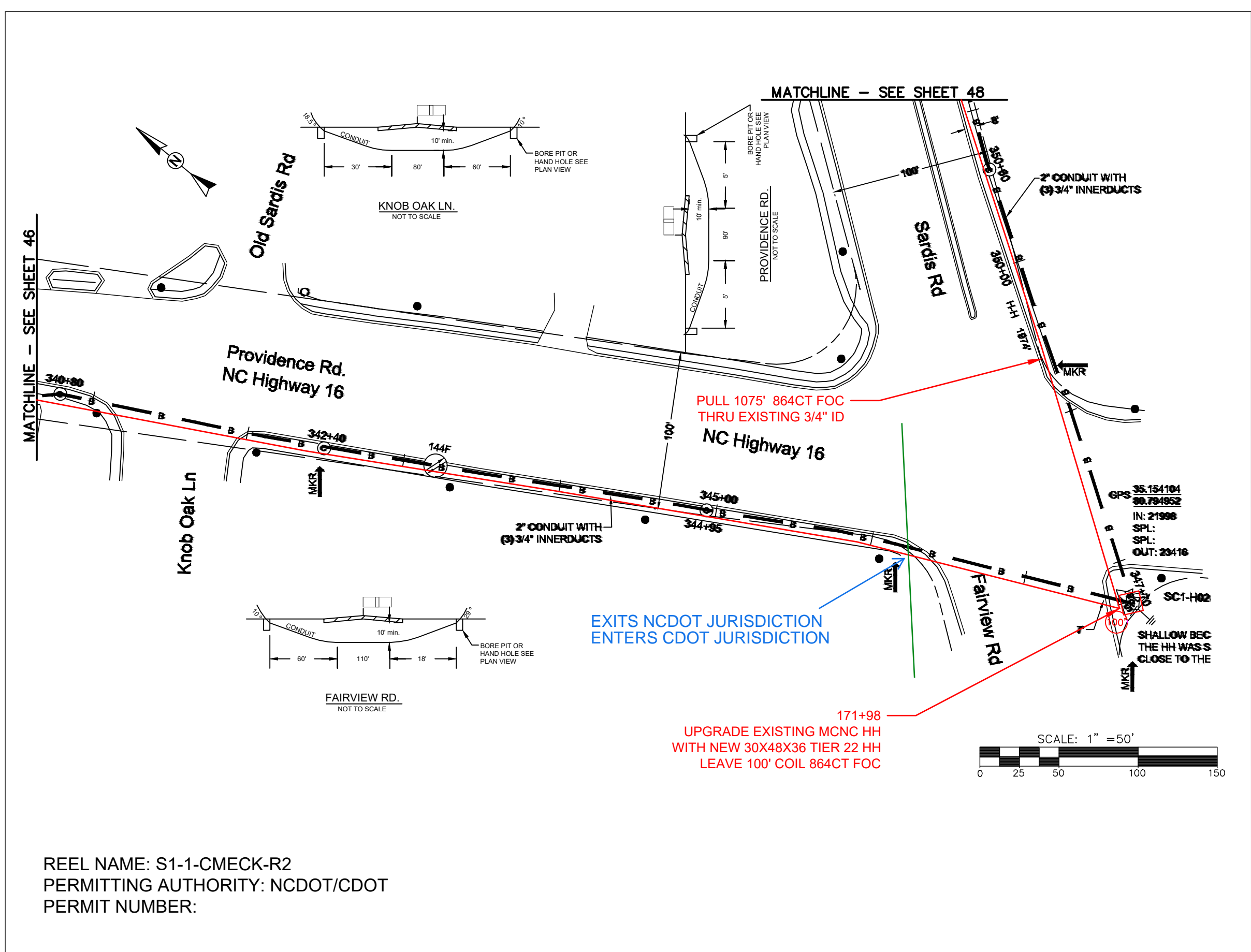
OF

220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT
PERMIT NUMBER:



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: NCDOT/CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.


SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

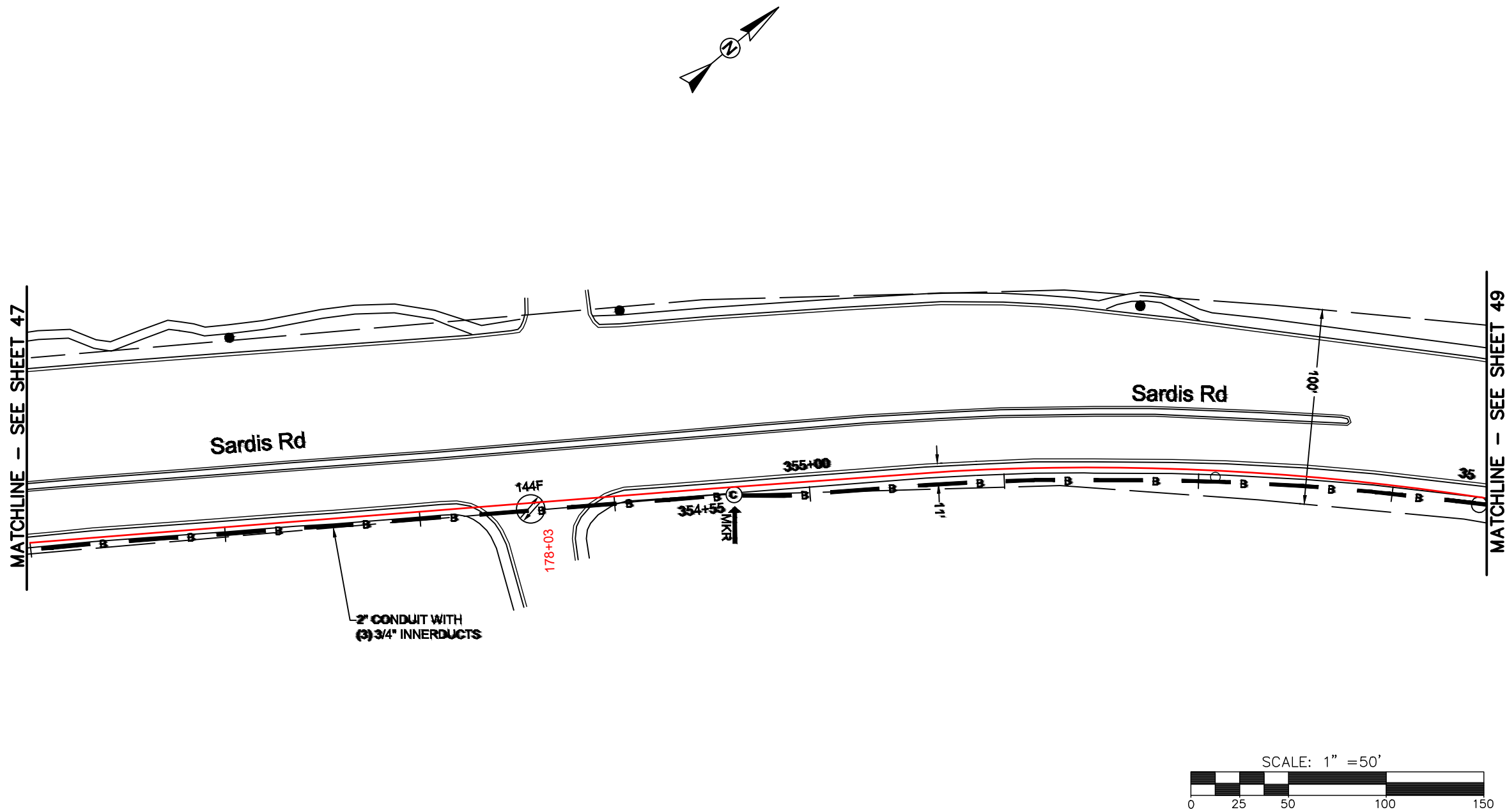


CLIENT:
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25





SCALE: NTS	SHEET NUMBER: 47 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R2
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



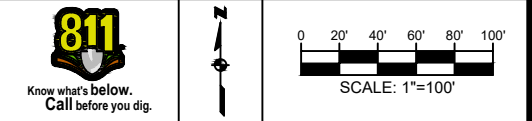
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

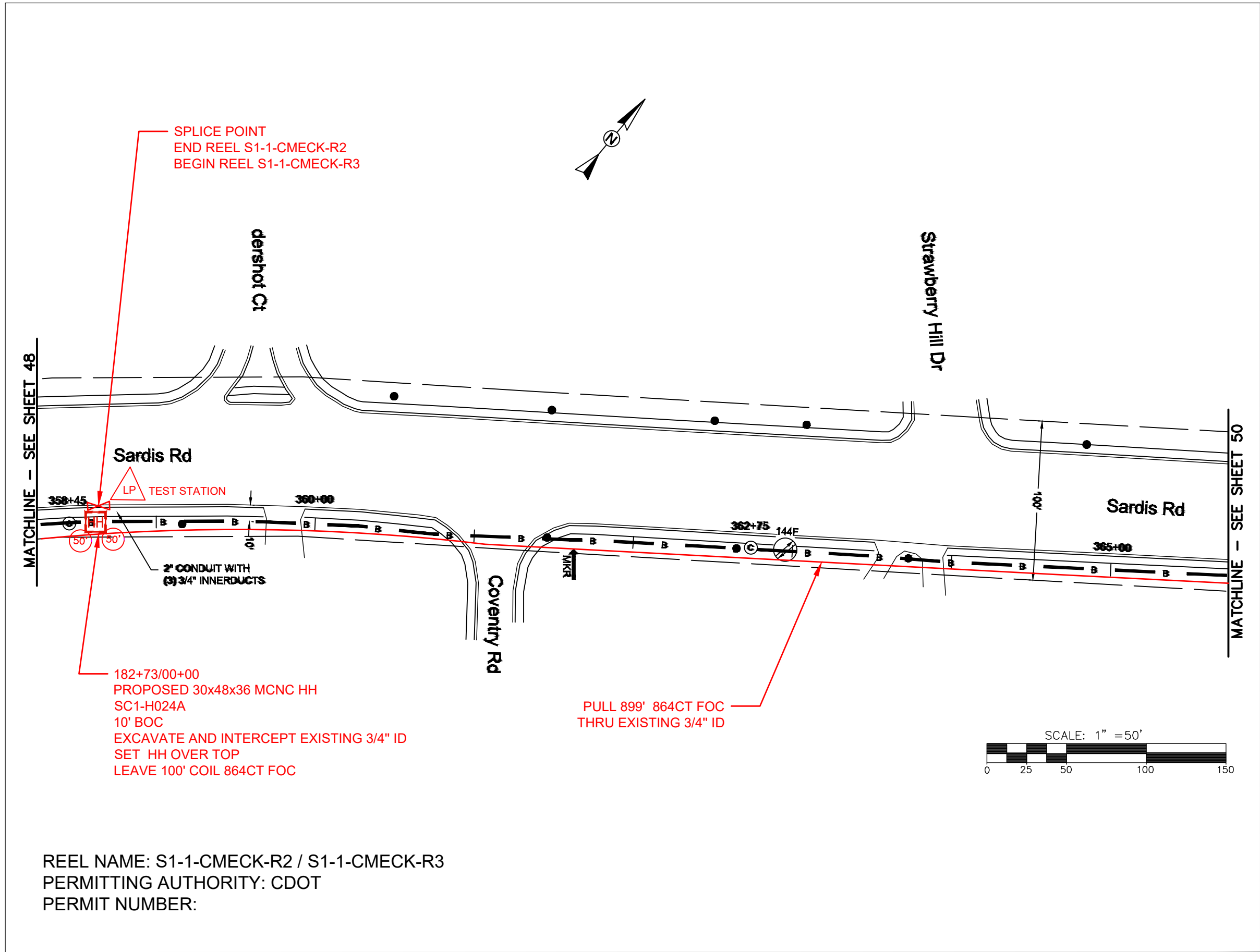


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 48 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



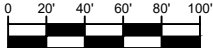


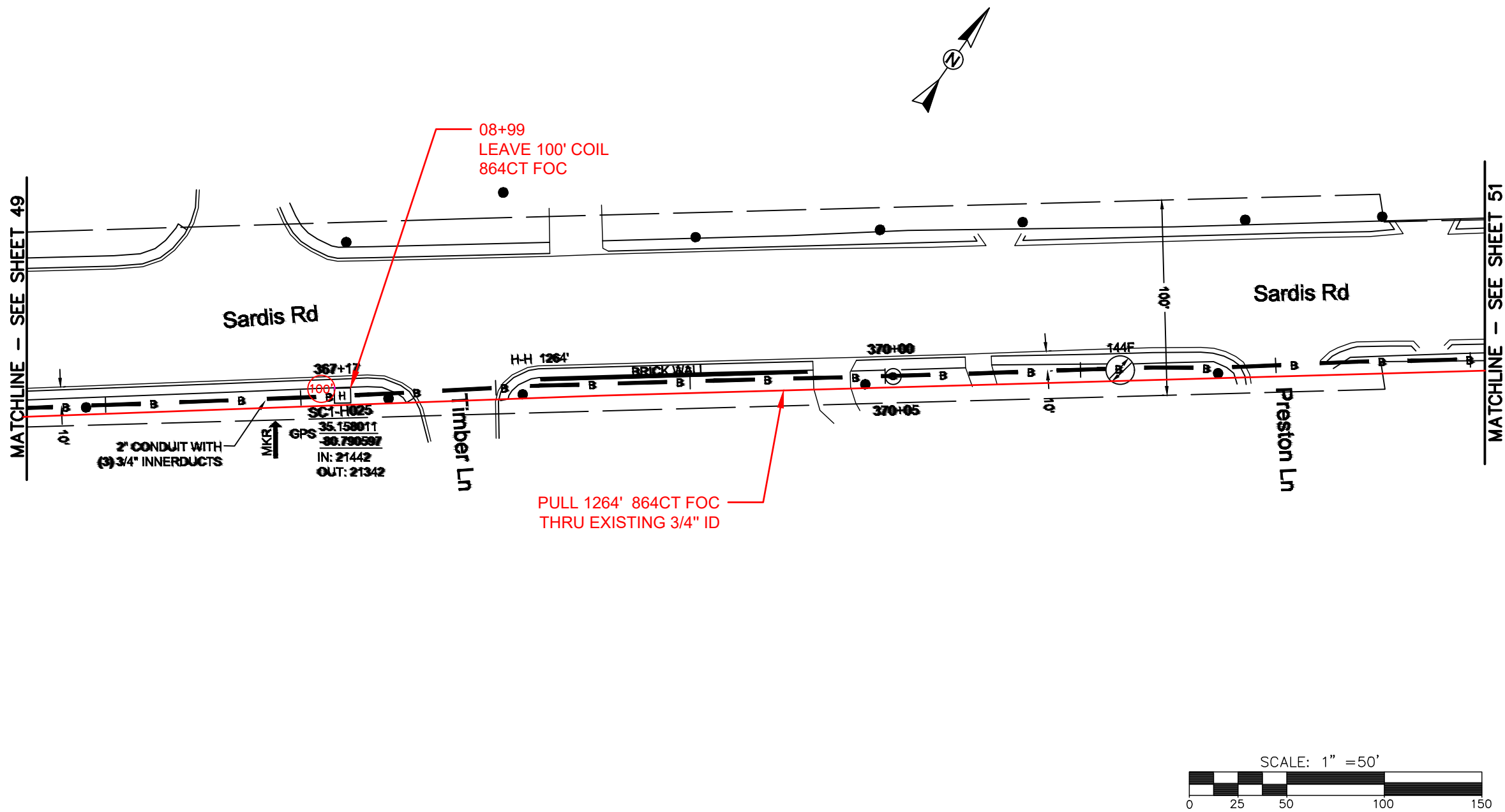
REEL NAME: S1-1-CMECK-R2 / S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
 <p>Know what's below. Call before you dig.</p>		 <p>0 20' 40' 60' 80' 100'</p> <p>SCALE: 1"=100'</p>
SCALE: NTS		SHEET NUMBER: 49 OF 220
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



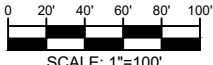


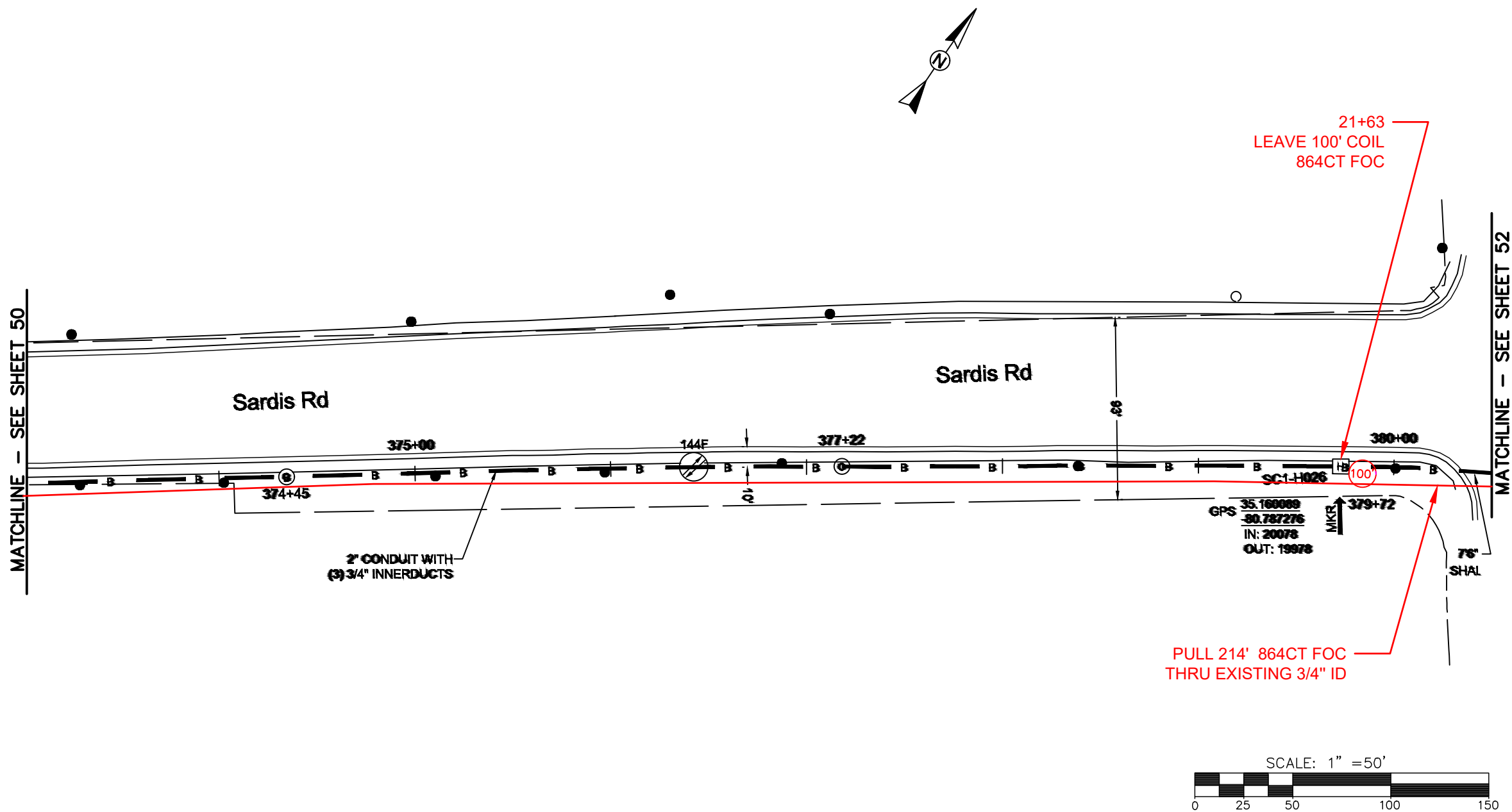
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
		
SCALE: NTS		SHEET NUMBER: 50 OF 220
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



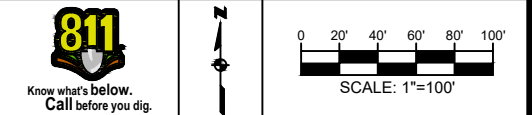
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

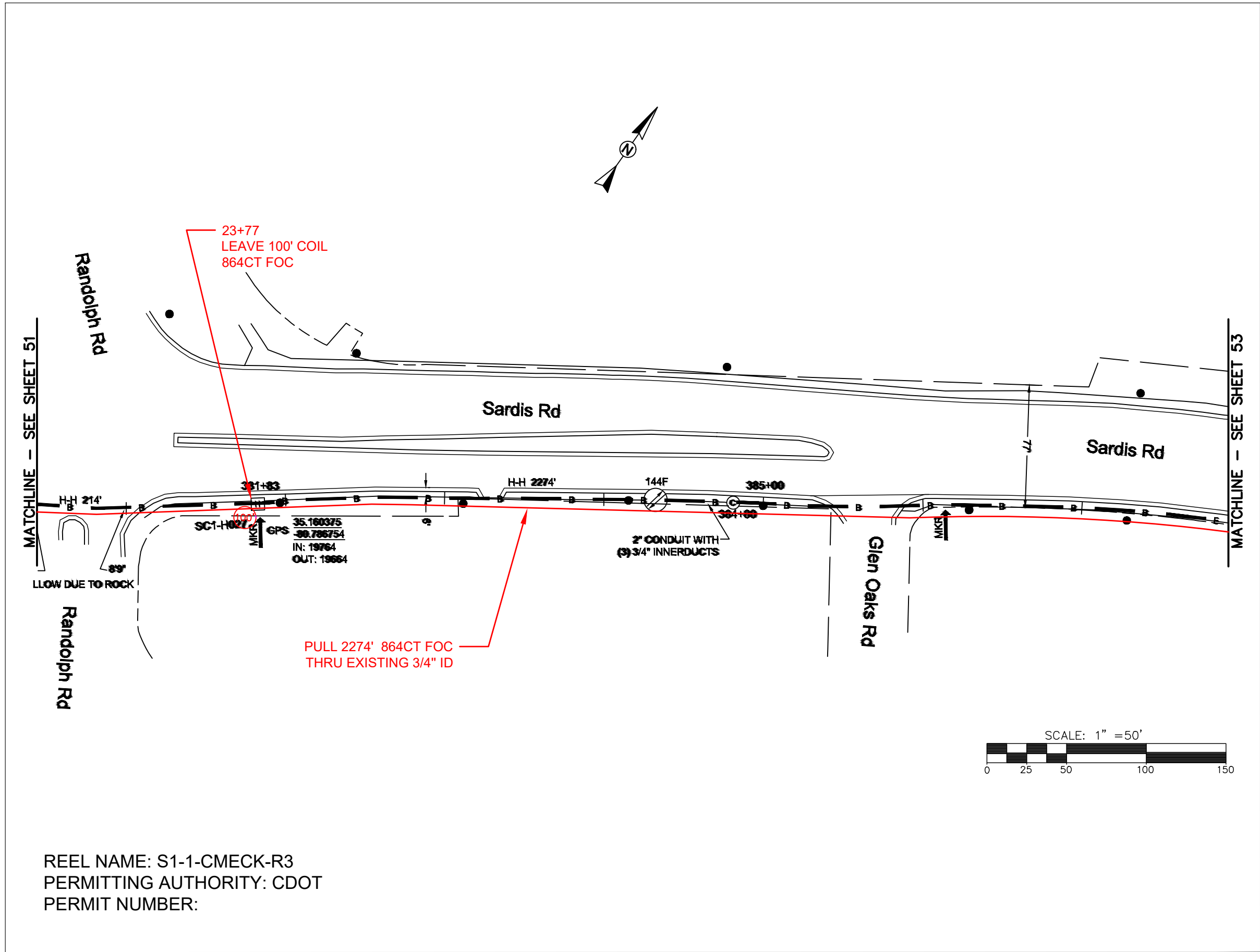


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 51 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



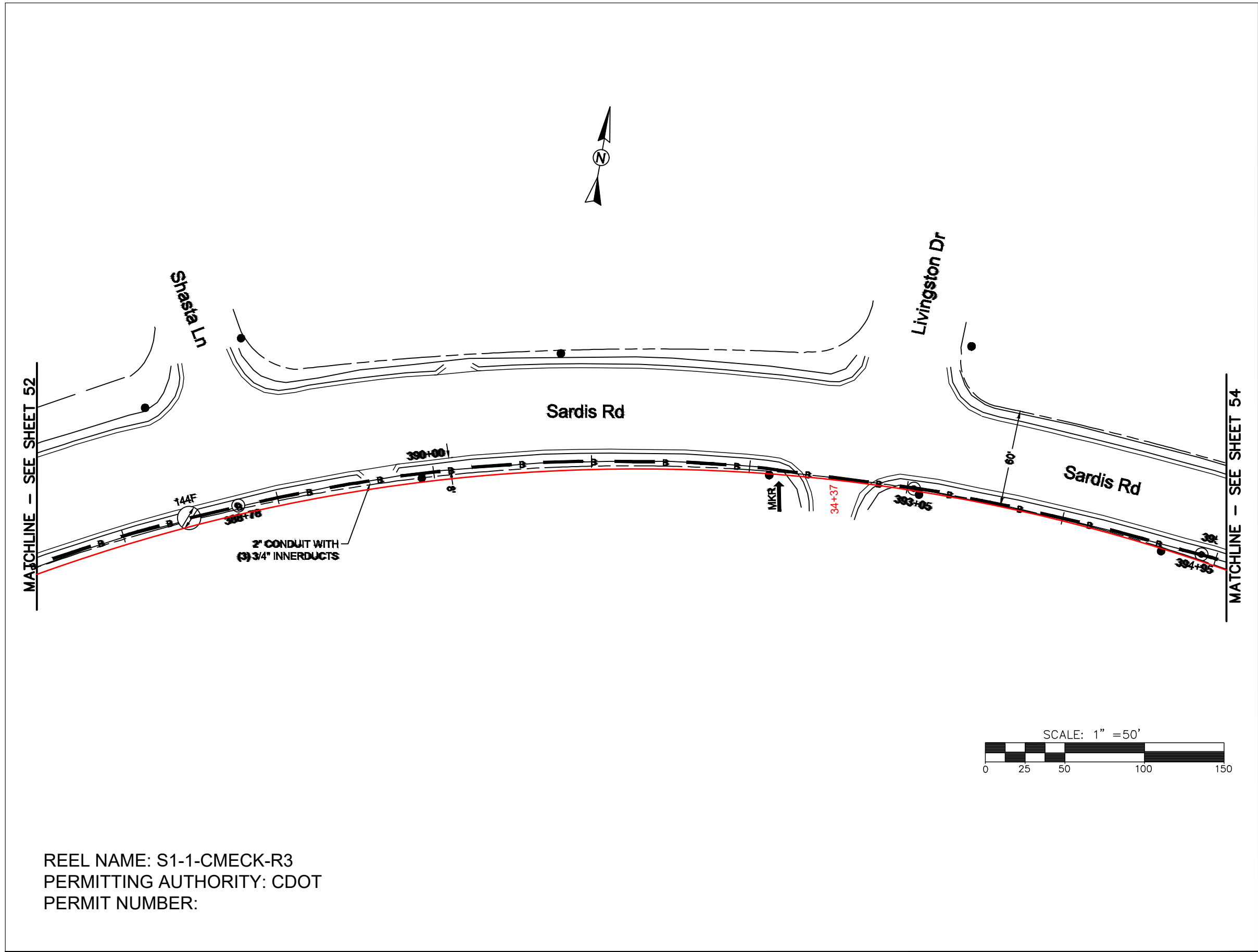
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
SCALE: NTS	SHEET NUMBER: 52 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

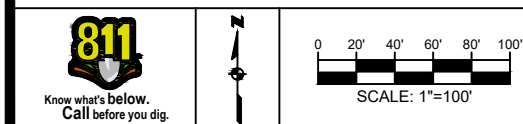
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

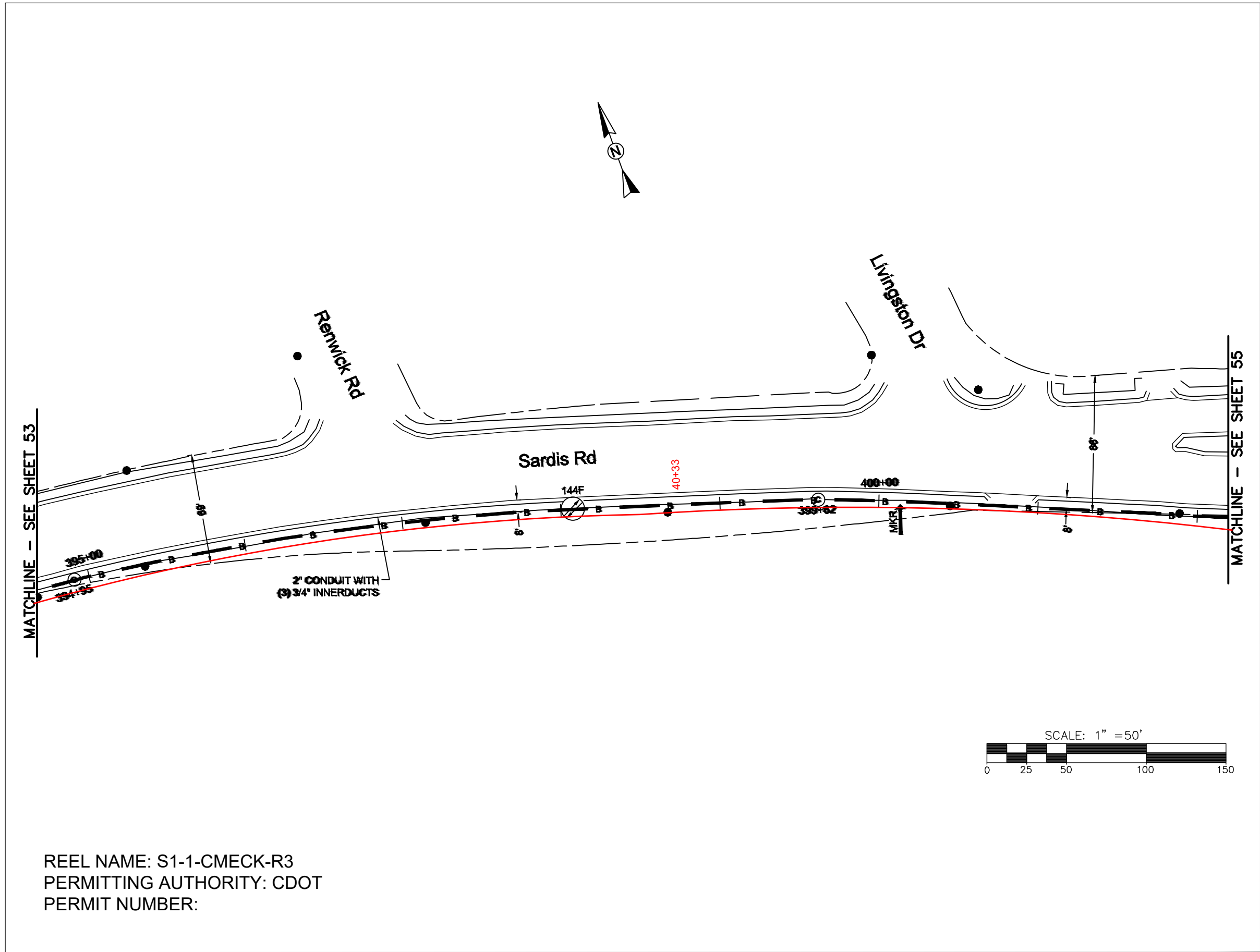


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 53 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

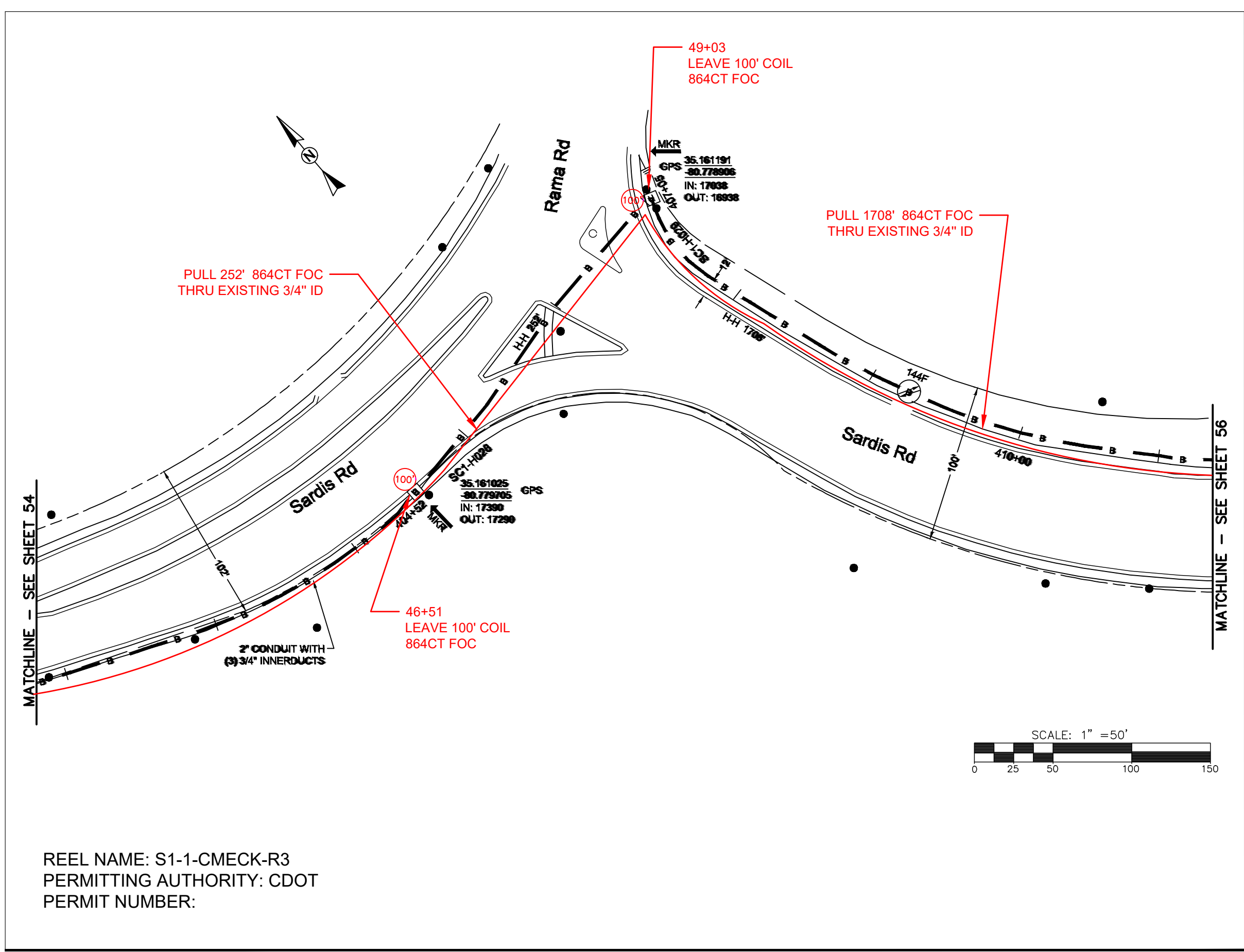
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 54 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

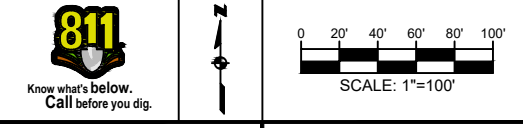
PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

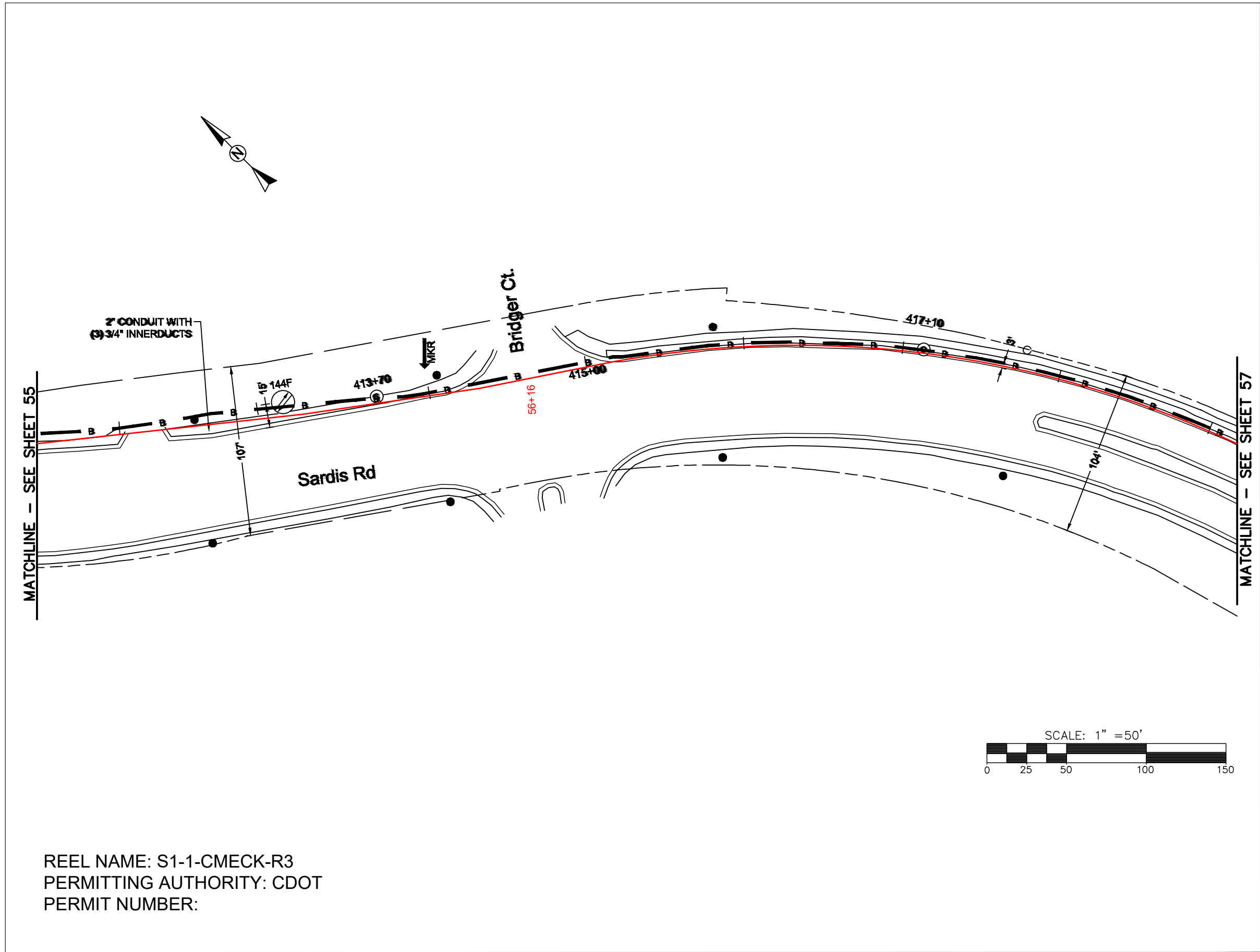


CLIENT: MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER: R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 55
PLOT DATE: 3/24/25	OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



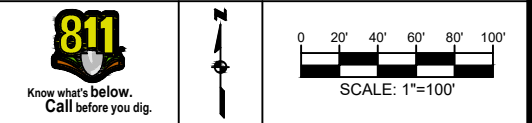
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

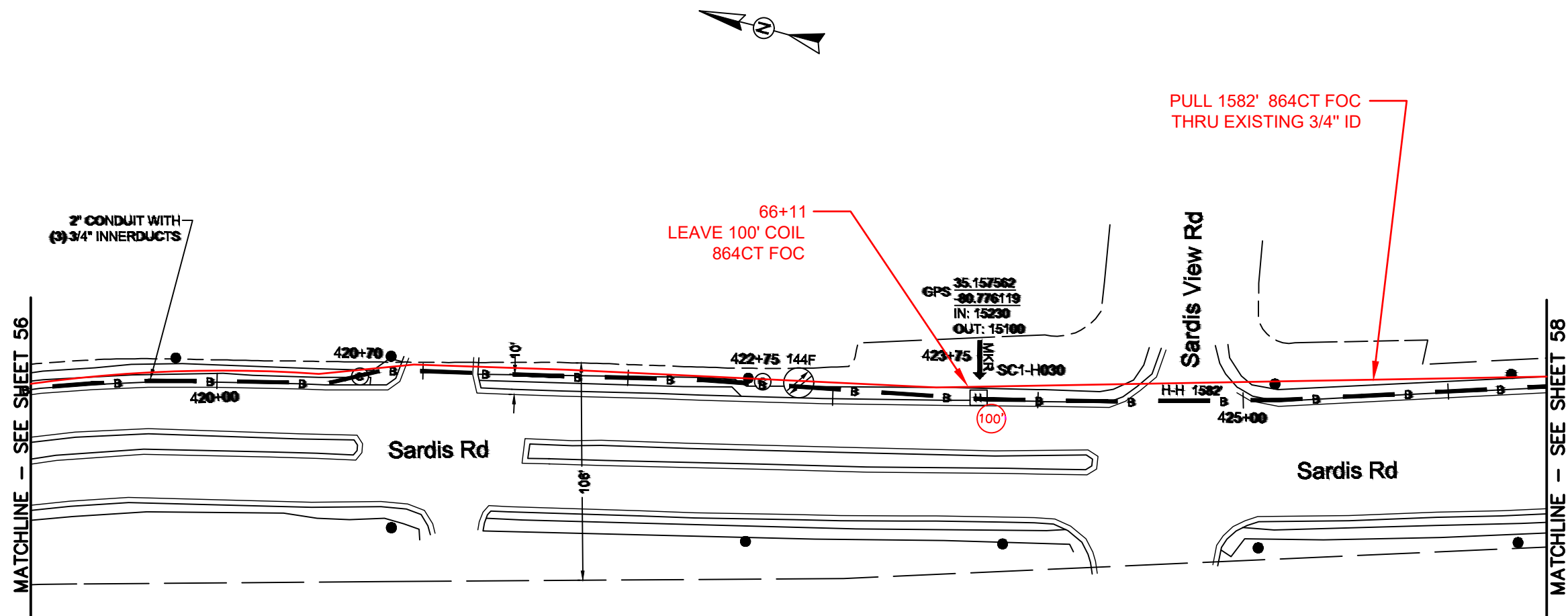


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 56 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

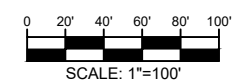
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

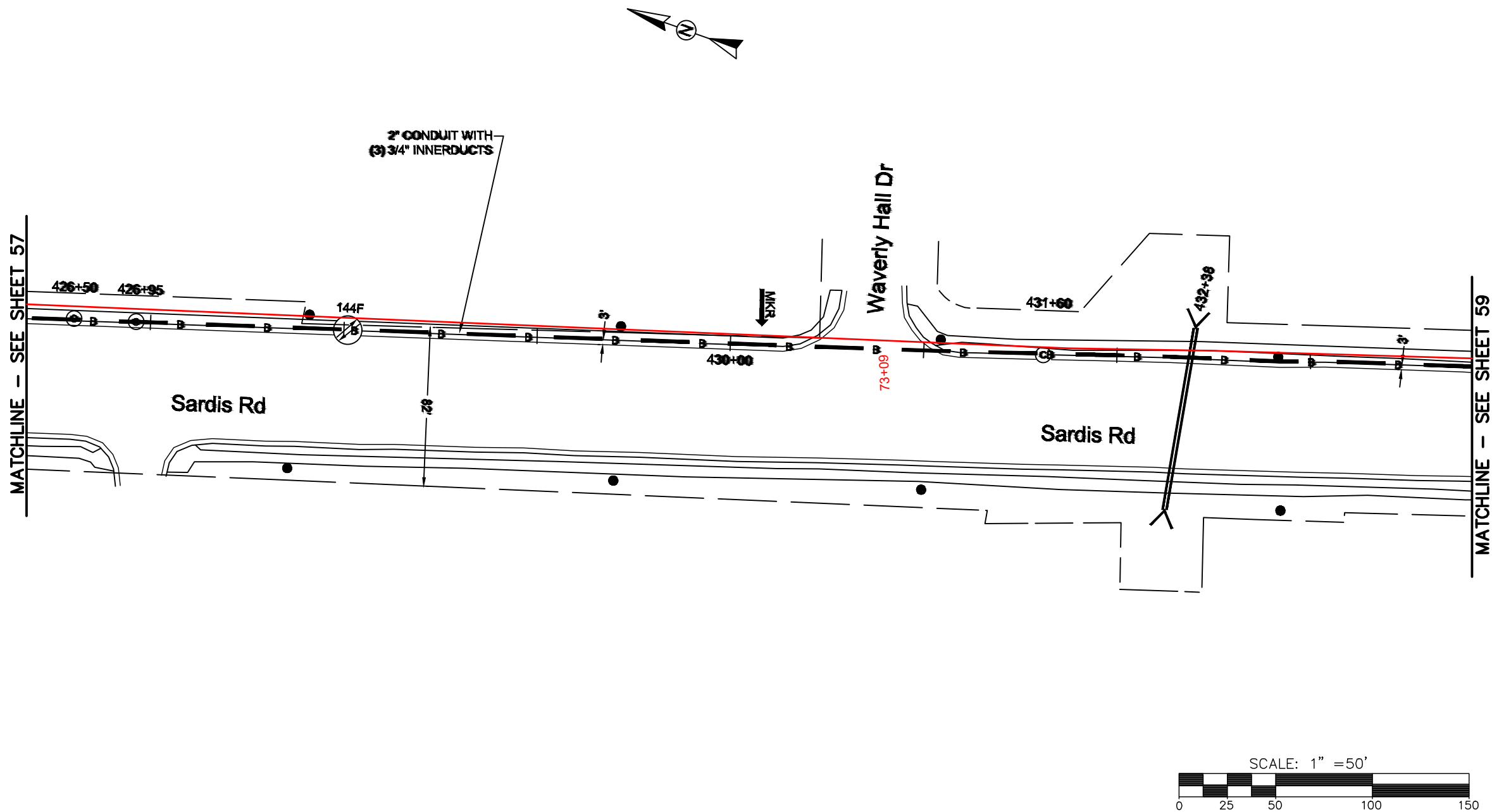


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 57 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

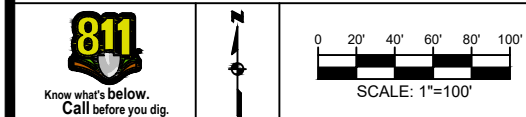
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



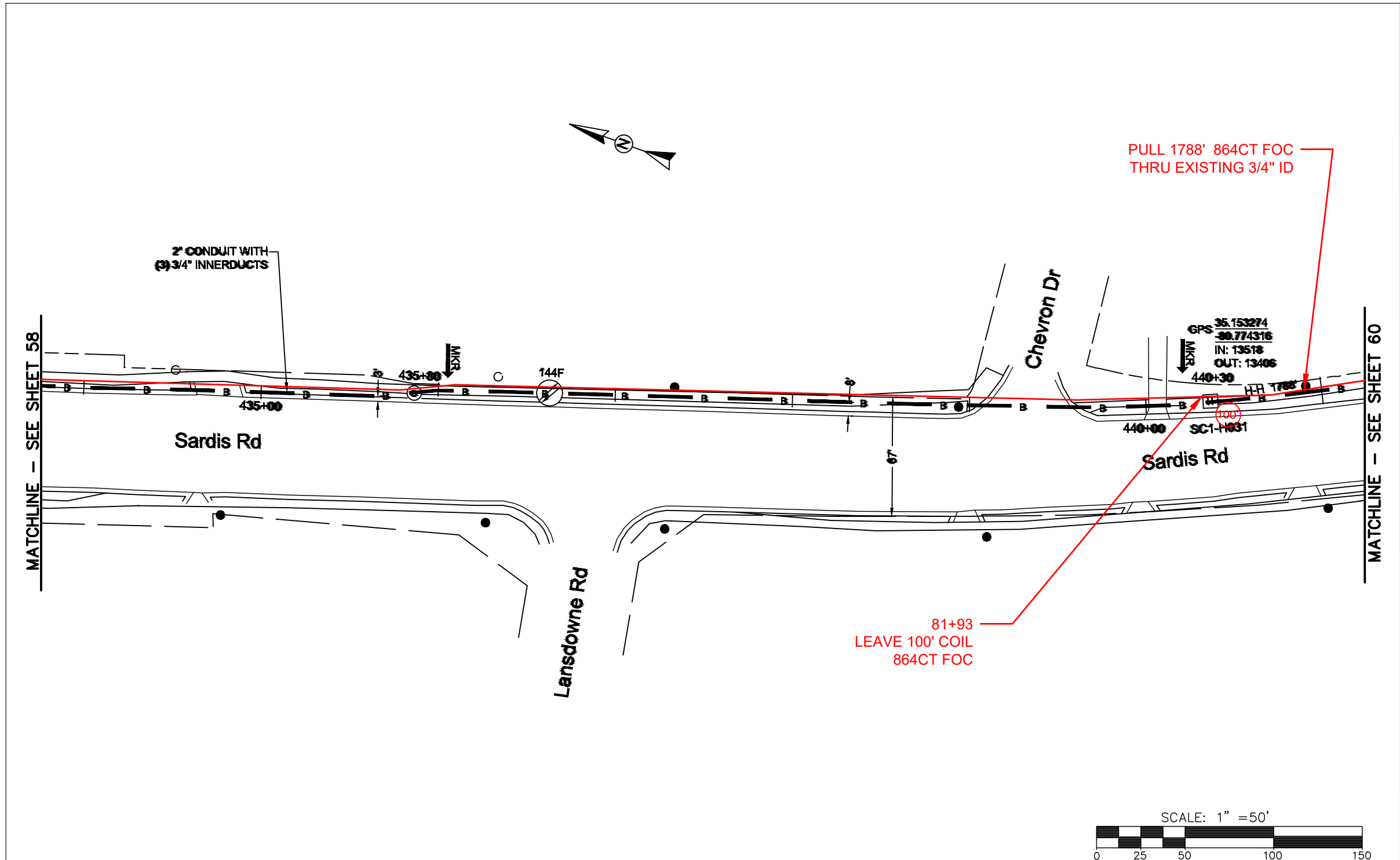
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 58 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

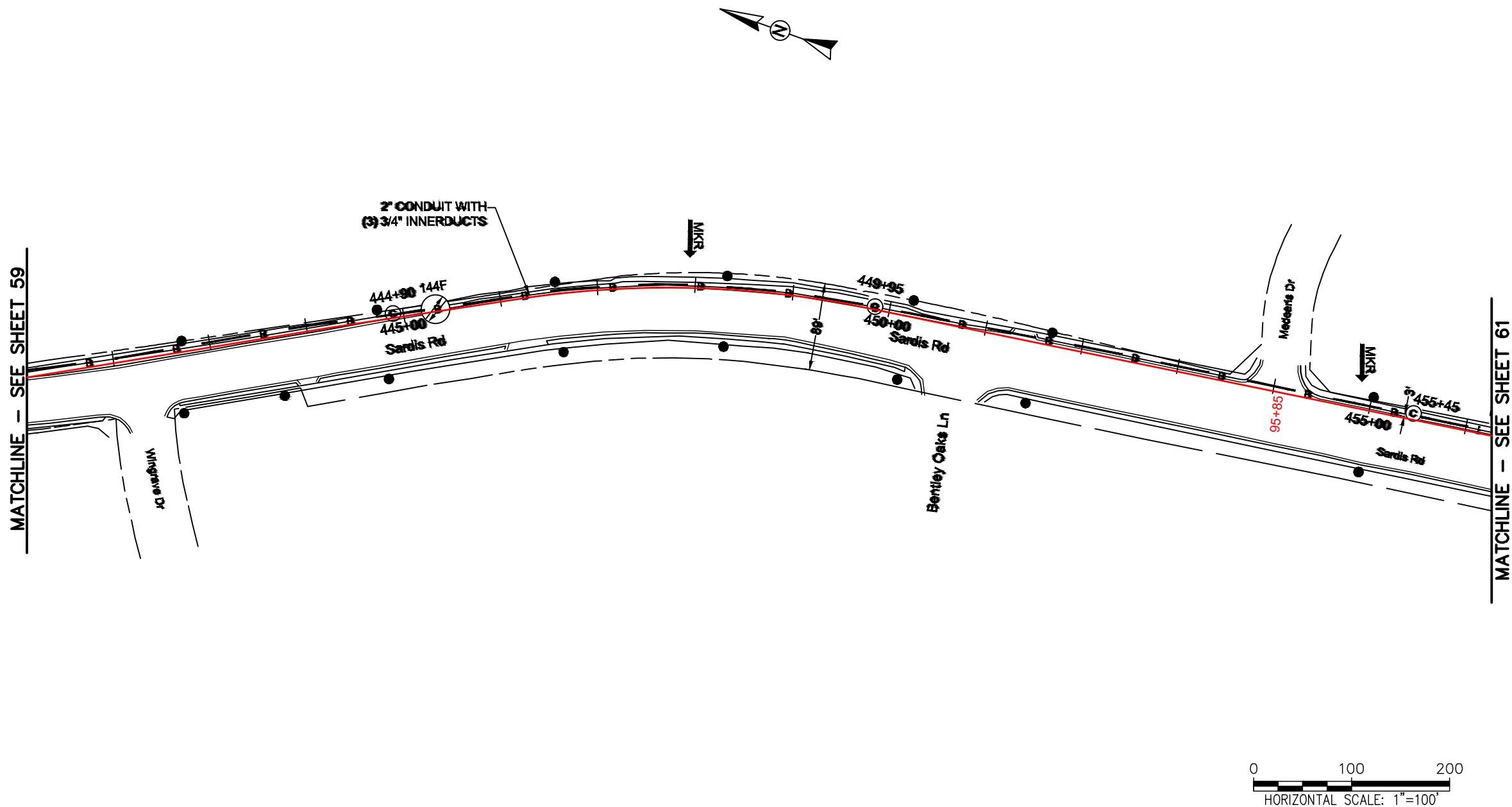
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 59 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

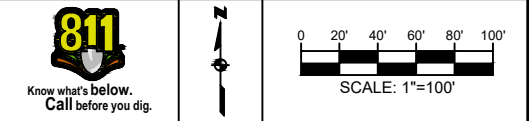
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

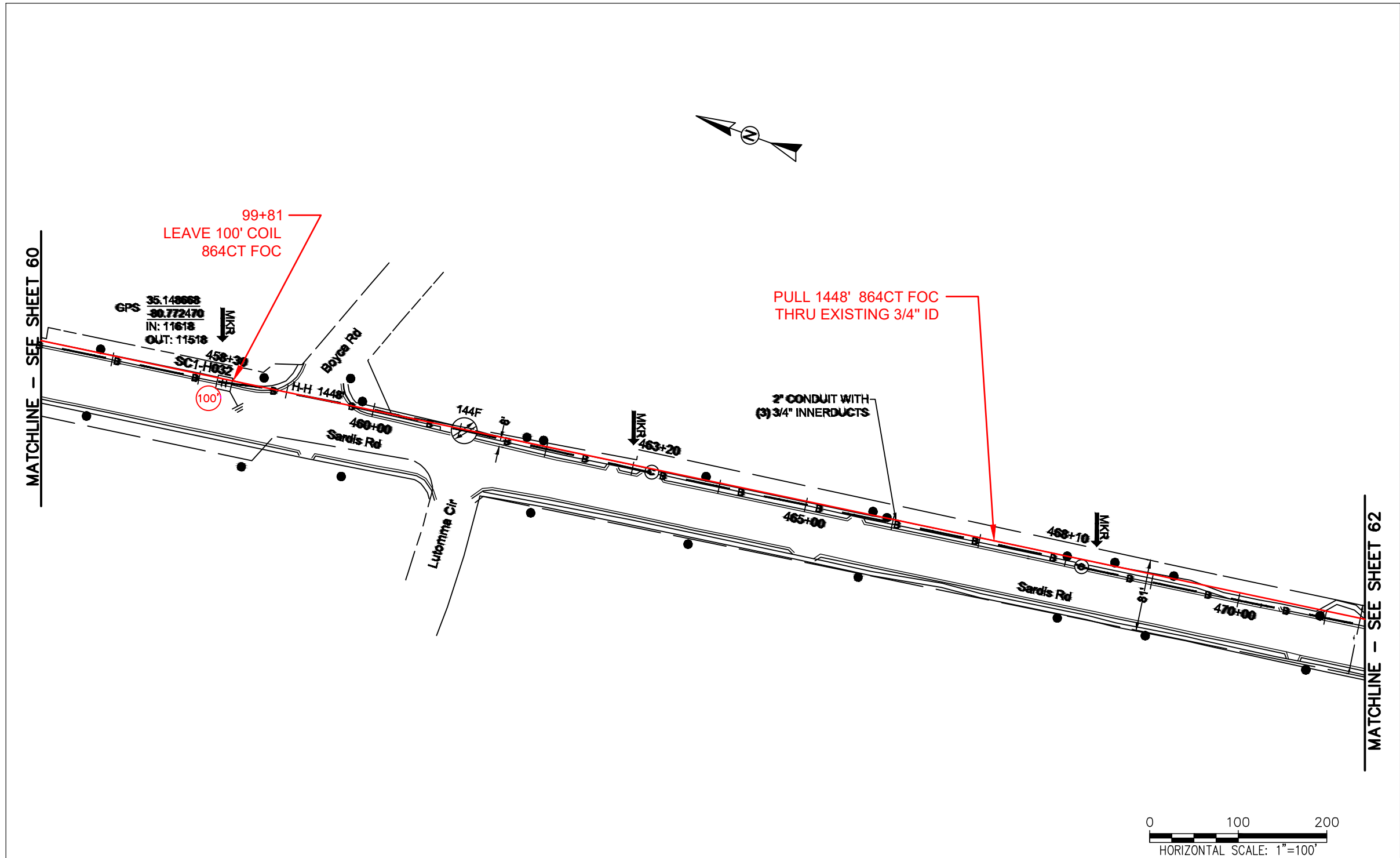


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 60 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

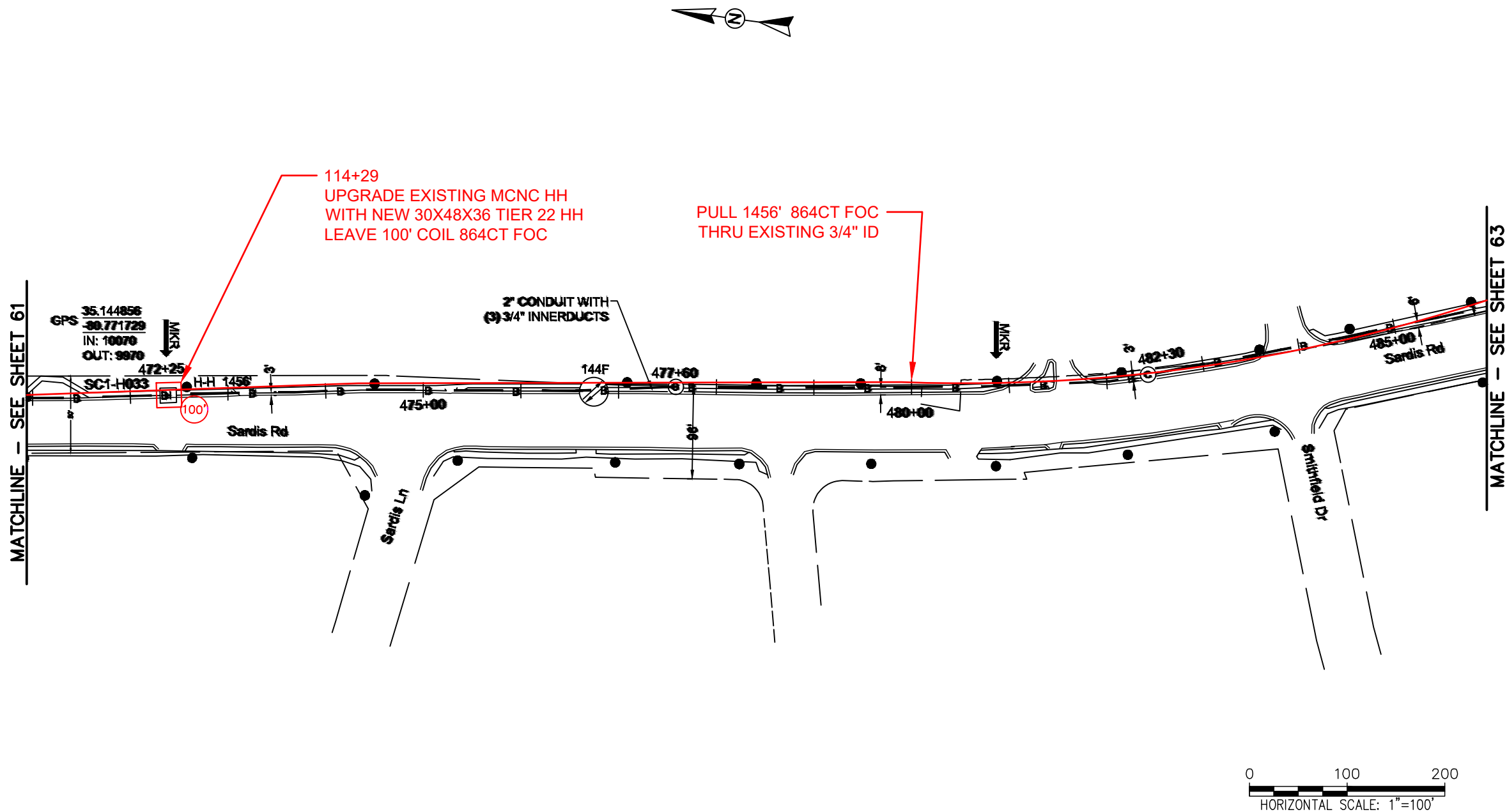
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 61 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



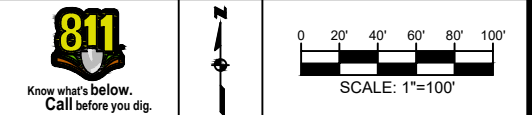
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

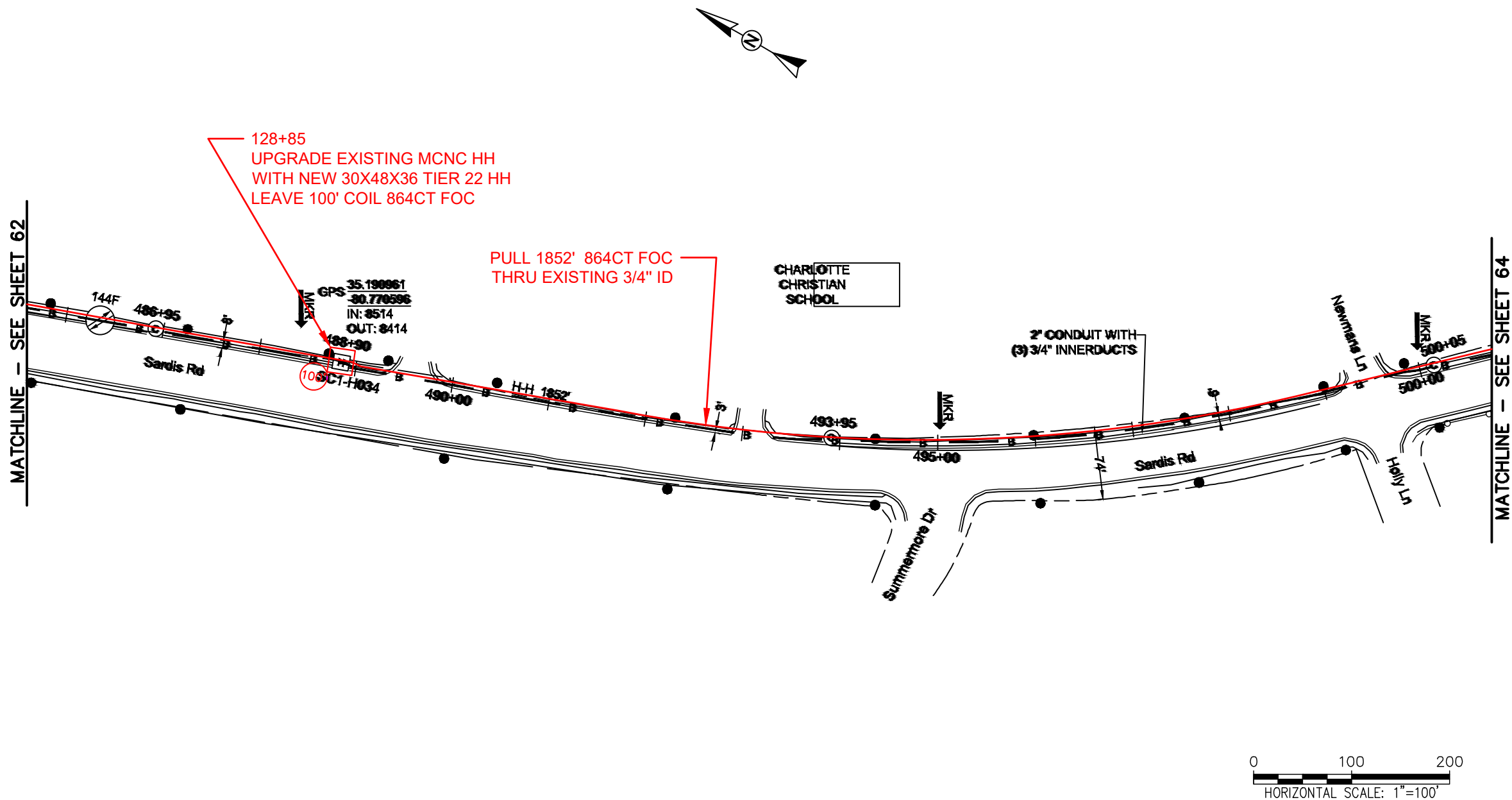


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 62 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:




PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

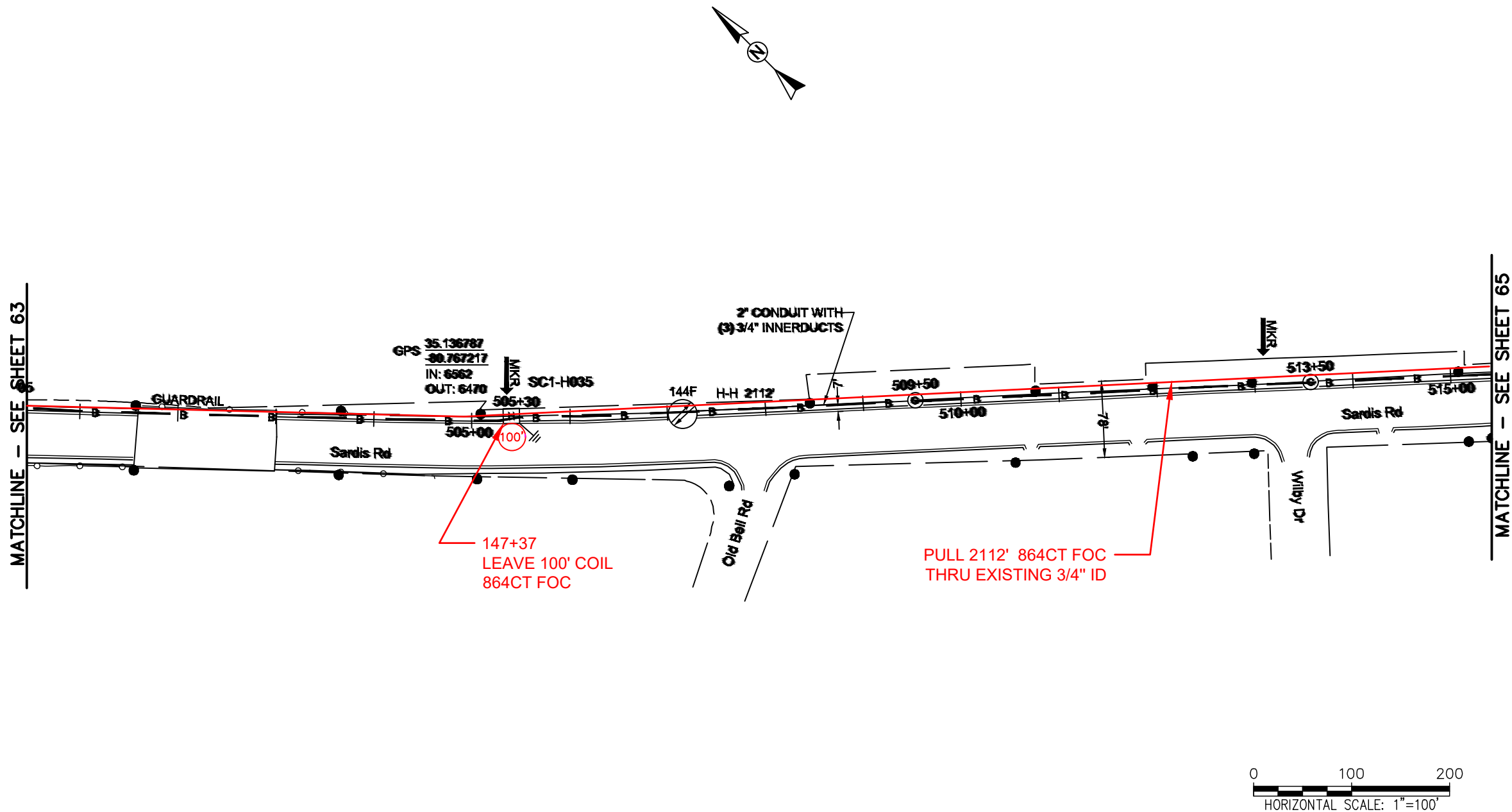
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE:	NTS	SHEET NUMBER:
PLOT DATE:	3/24/25	63 OF 220



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CONFIDENTIAL AND PROPRIETARY

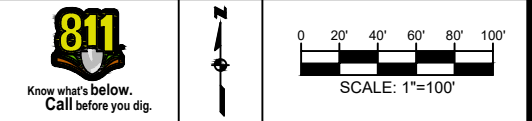
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

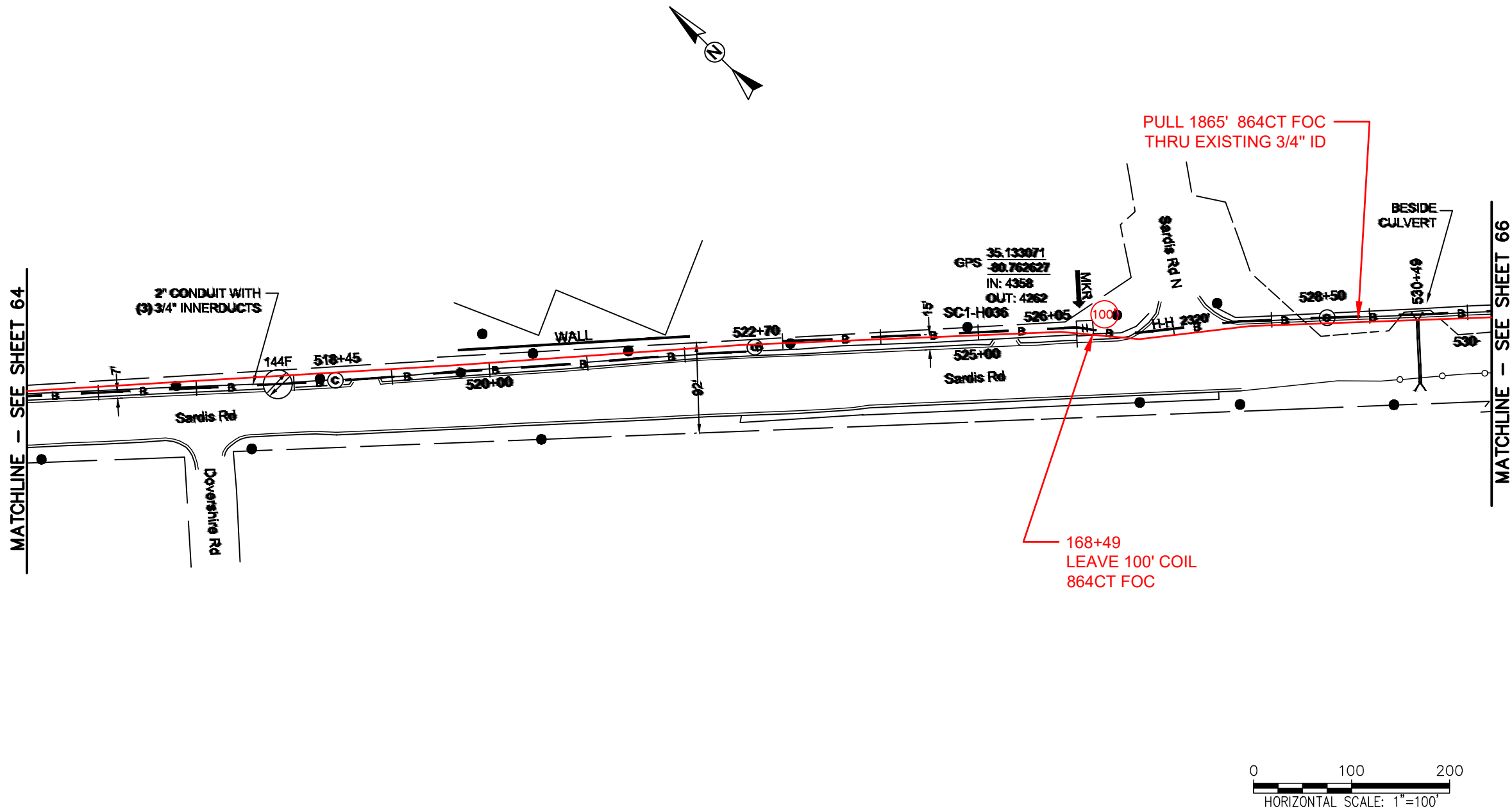


SCALE: NTS

PLOT DATE: 3/24/25

SHEET NUMBER: 64 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

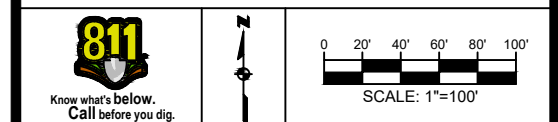
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



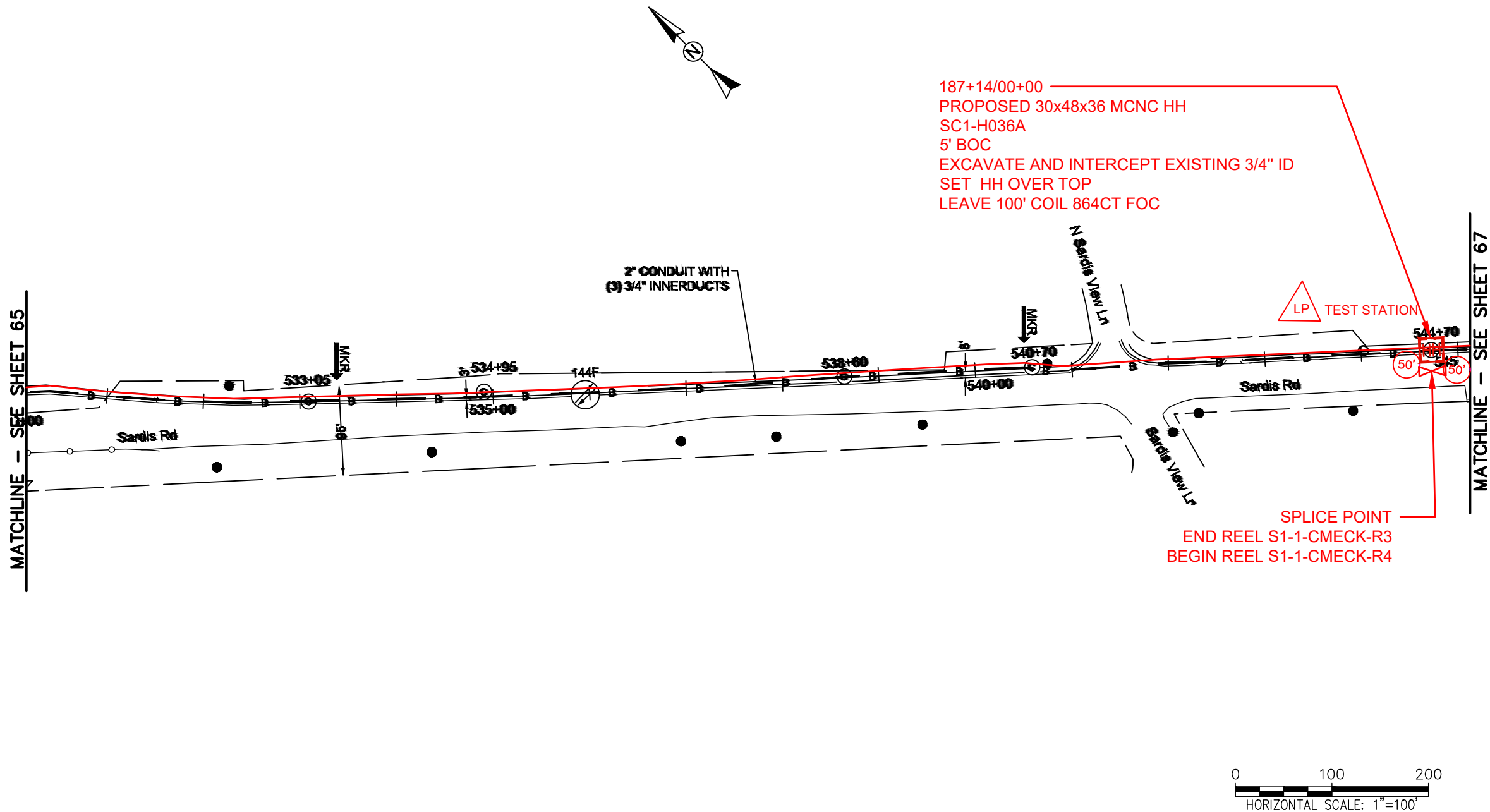
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 65 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R3 / S1-1-CMECK-R4
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:



CONSTRUCTION NOTES:

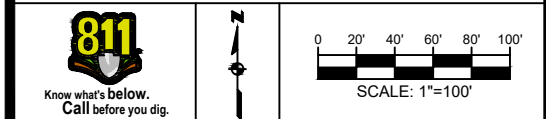
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

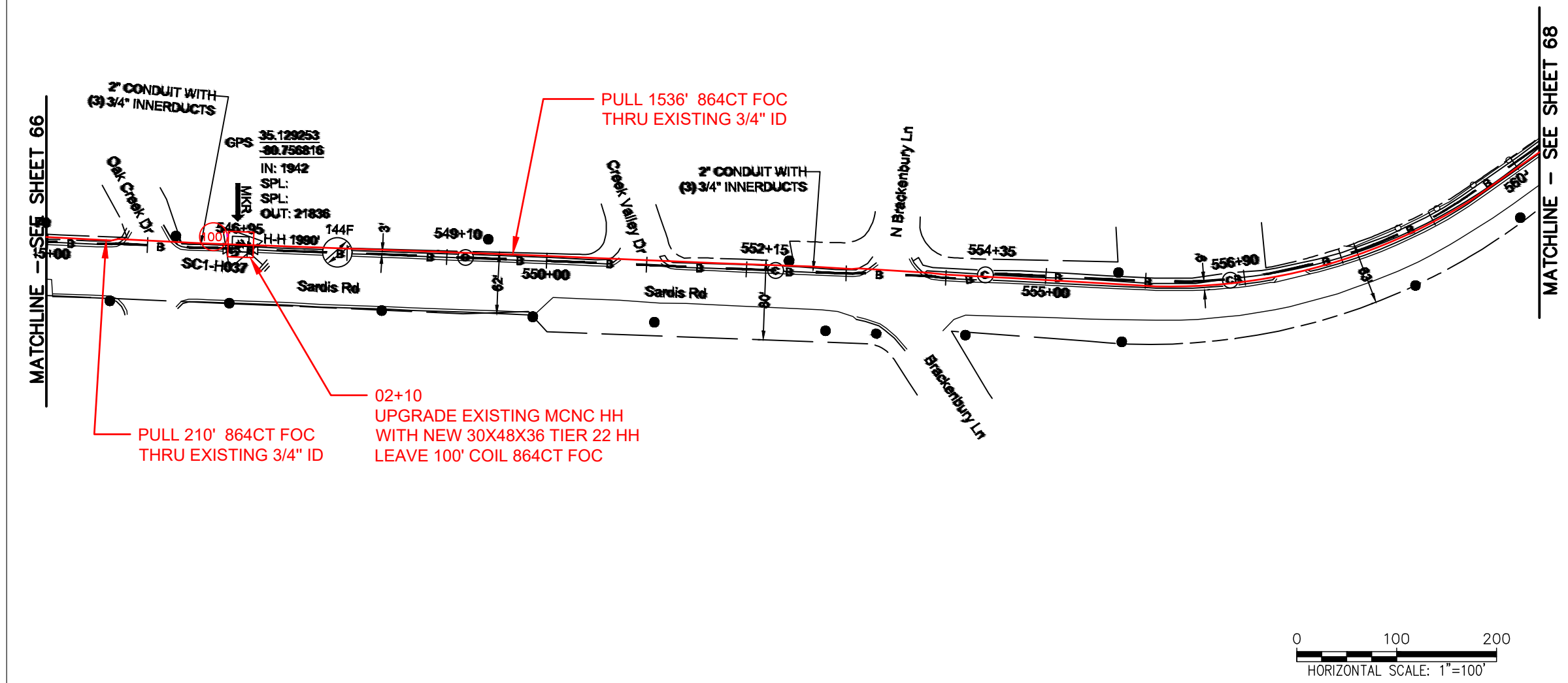


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 66 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY: CDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

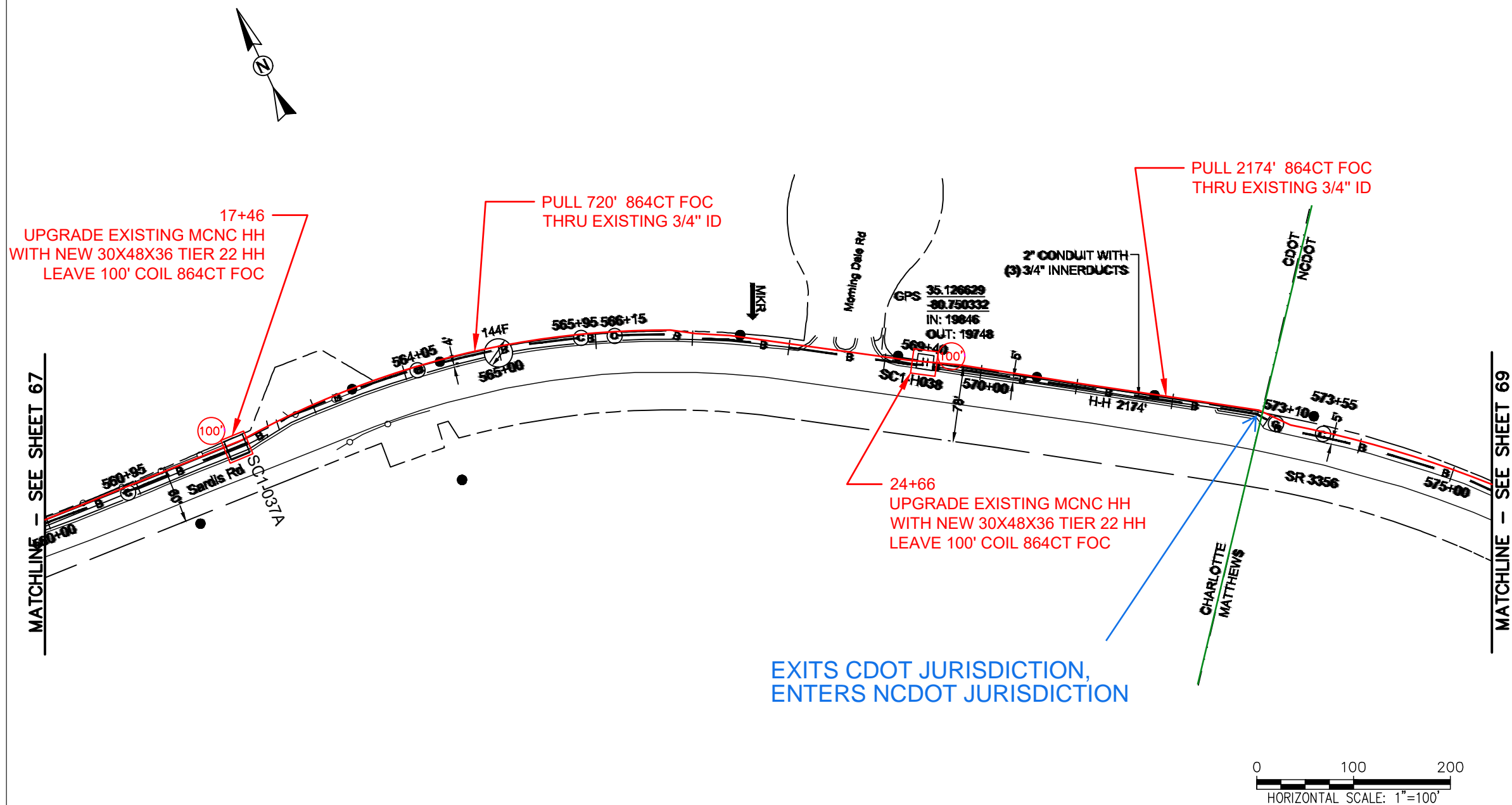
JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 67 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CMECK-R4 PERMITTING
AUTHORITY: CDOT/NCDOT
PERMIT NUMBER:

CONSTRUCTION NOTES:

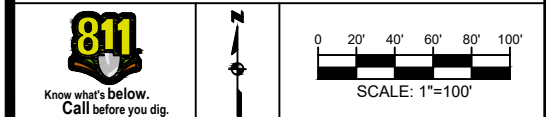
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

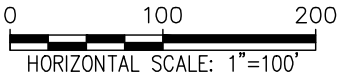
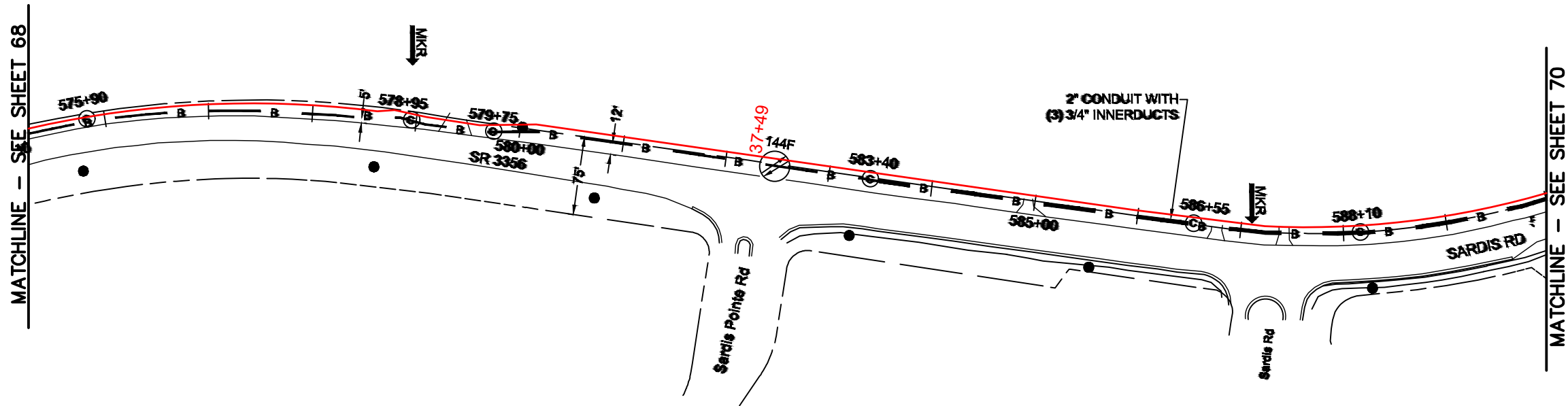


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 68 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



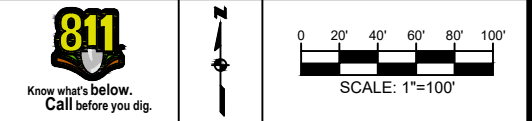
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

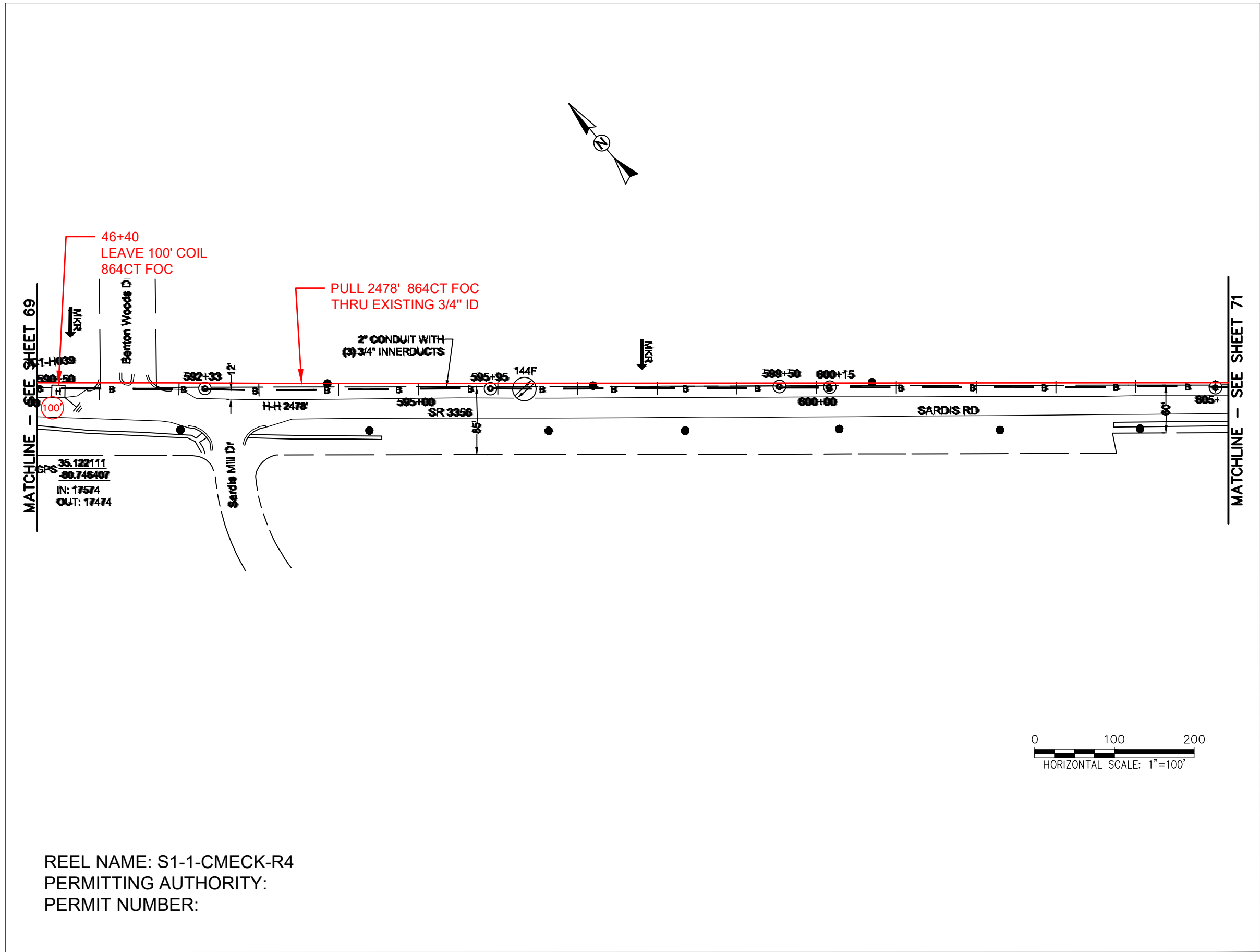


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 69 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

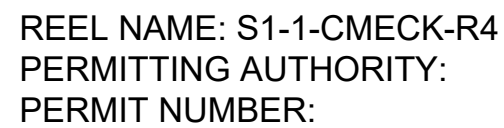


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE:	SHEET NUMBER:
NTS	70
PLOT DATE:	OF
3/24/25	220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



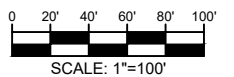
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

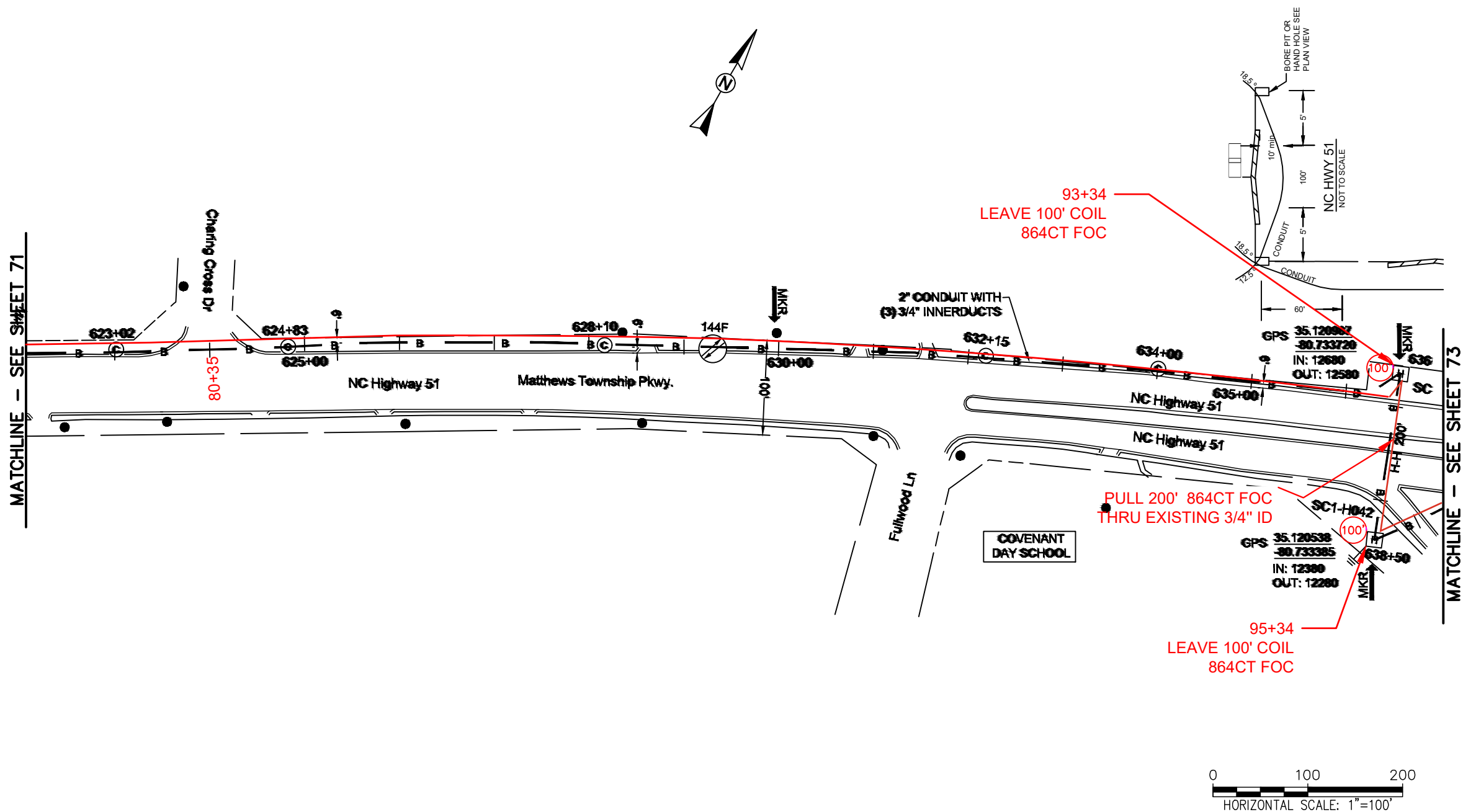
SHEET NUMBER:

71

OF

220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

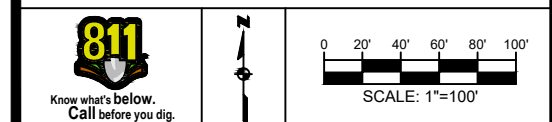
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



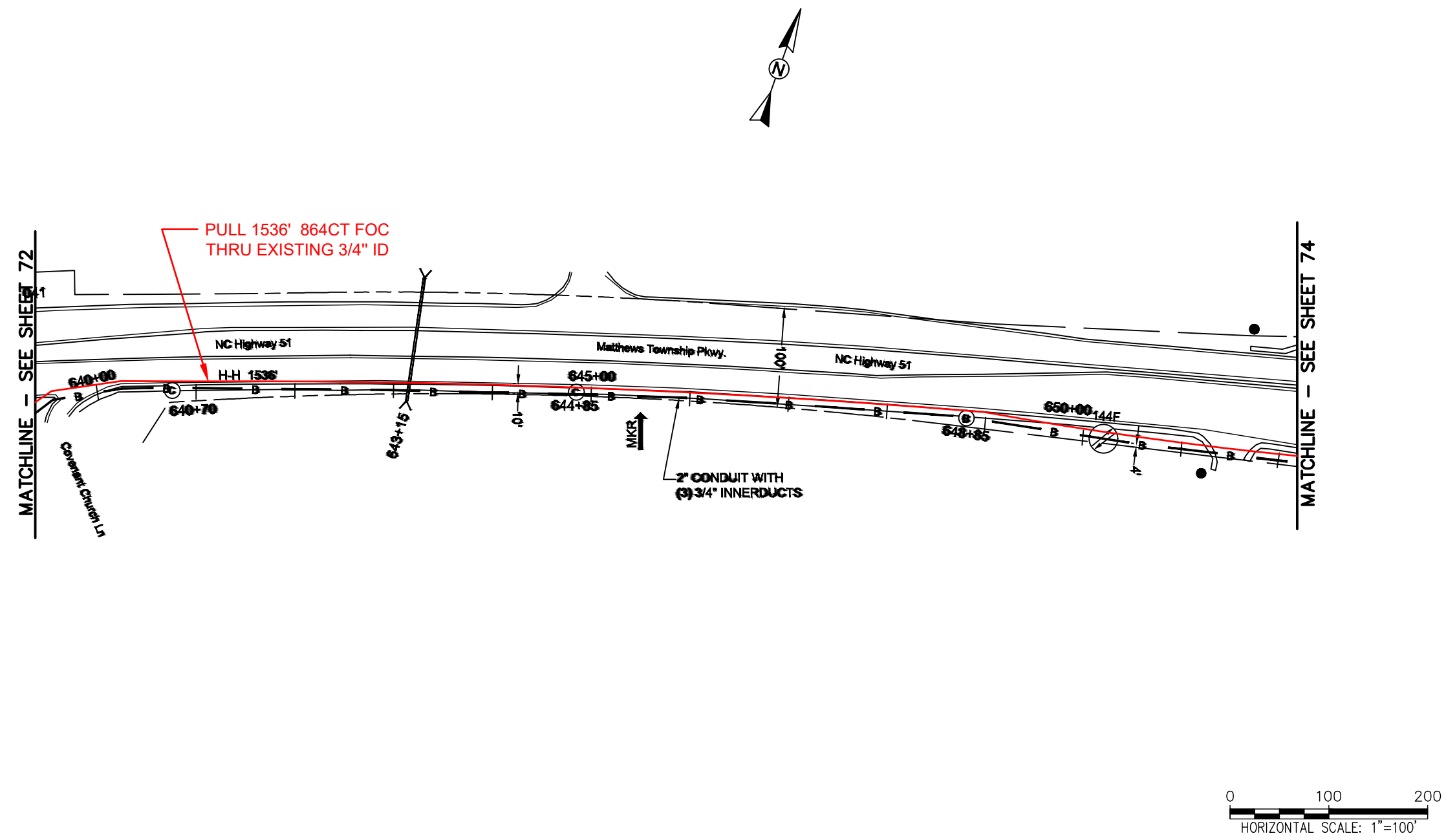
SCALE: NTS	SHEET NUMBER: 72 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

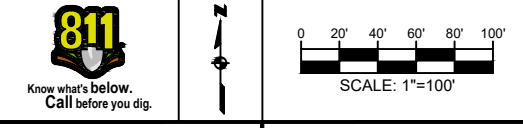


REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONFIDENTIAL AND PROPRIETARY

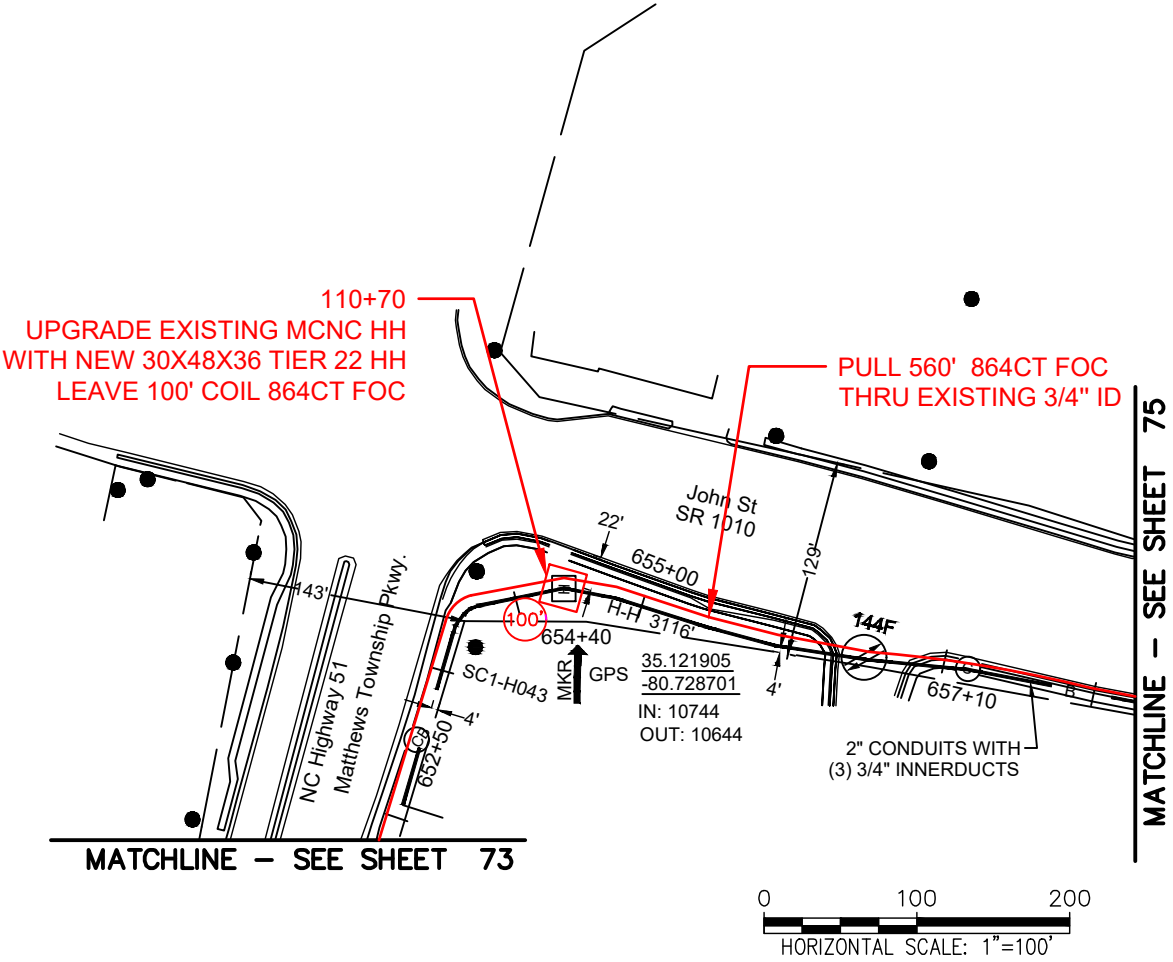


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 73 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



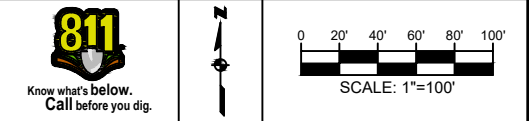
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

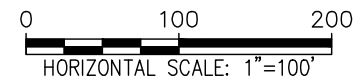
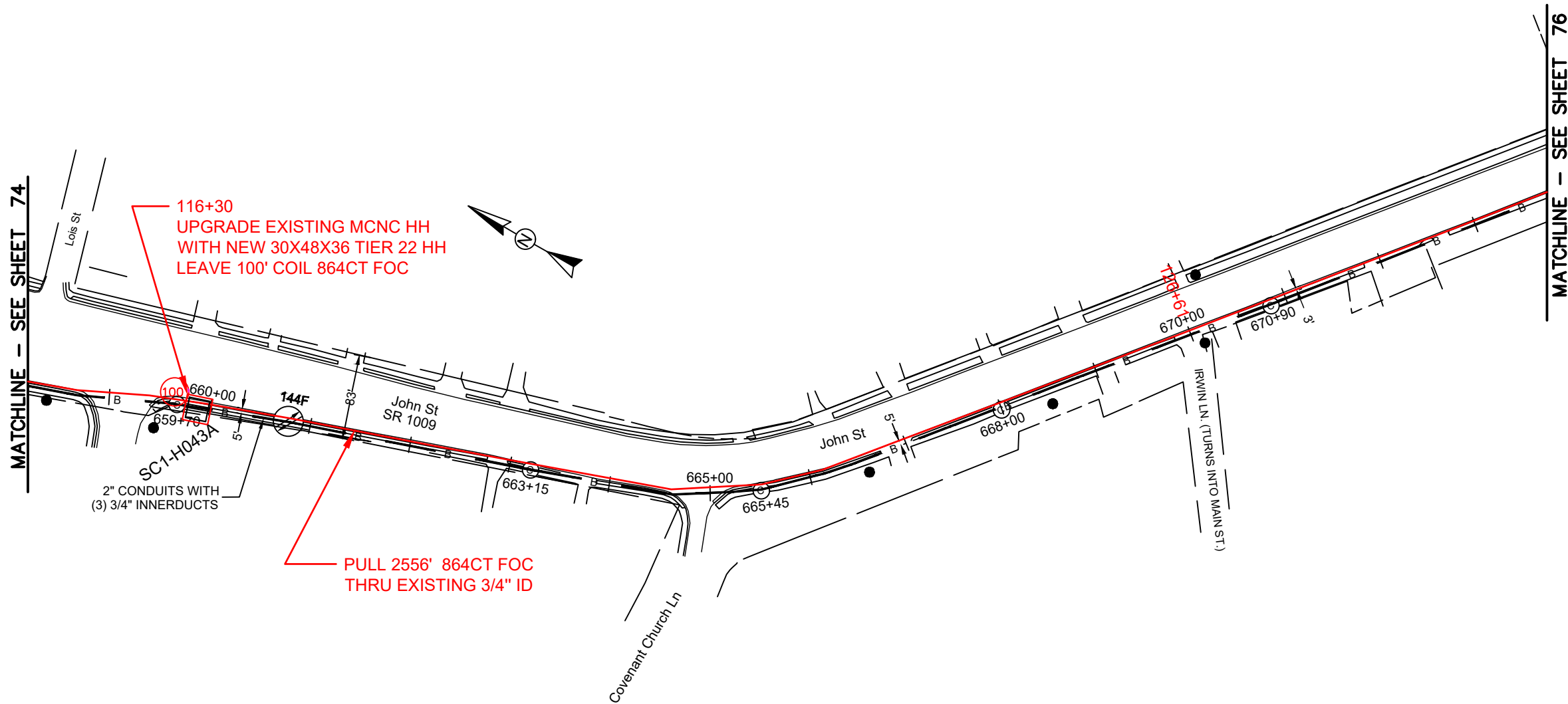


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 74 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

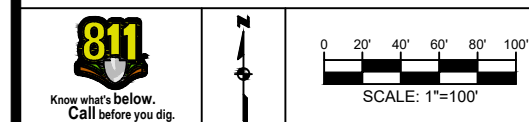
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

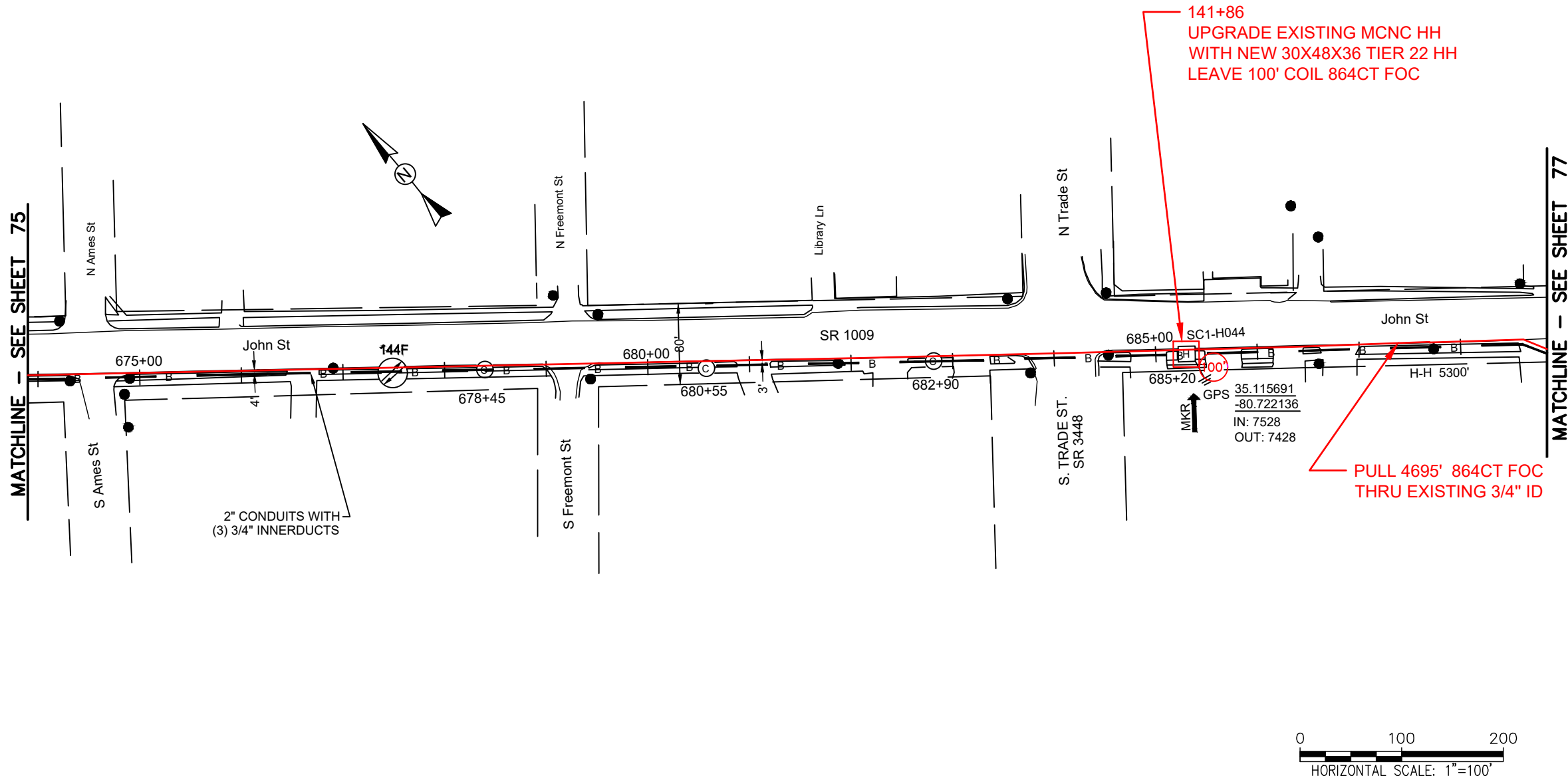


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 75 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

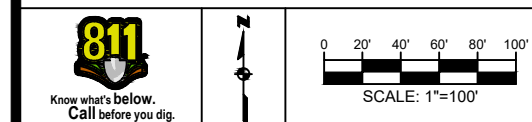
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

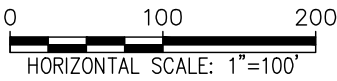
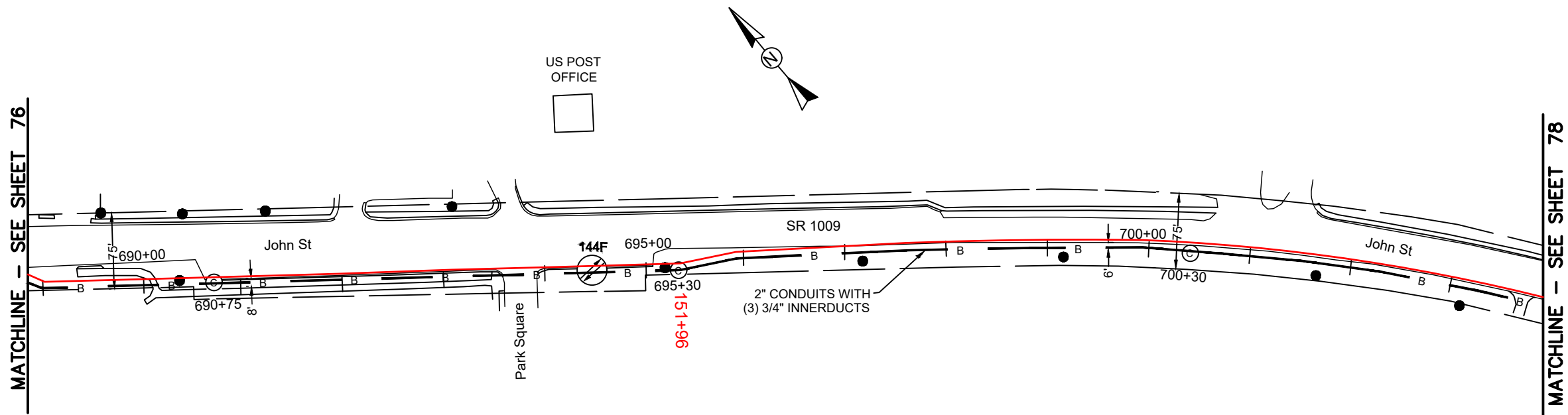


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 76 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



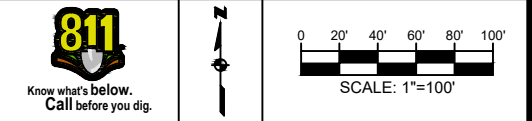
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

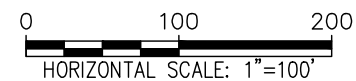
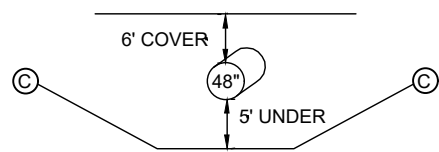
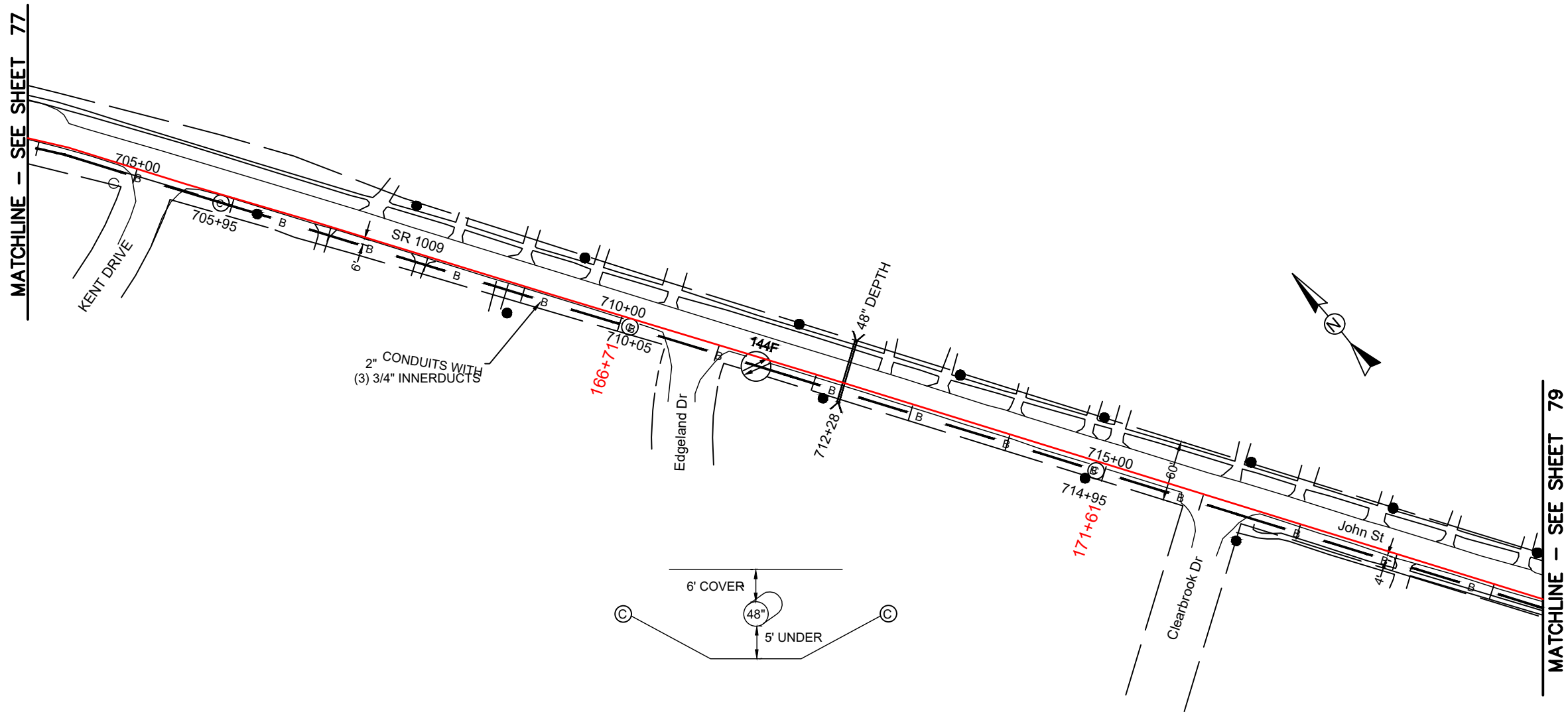


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 77 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

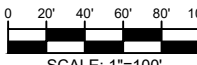


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

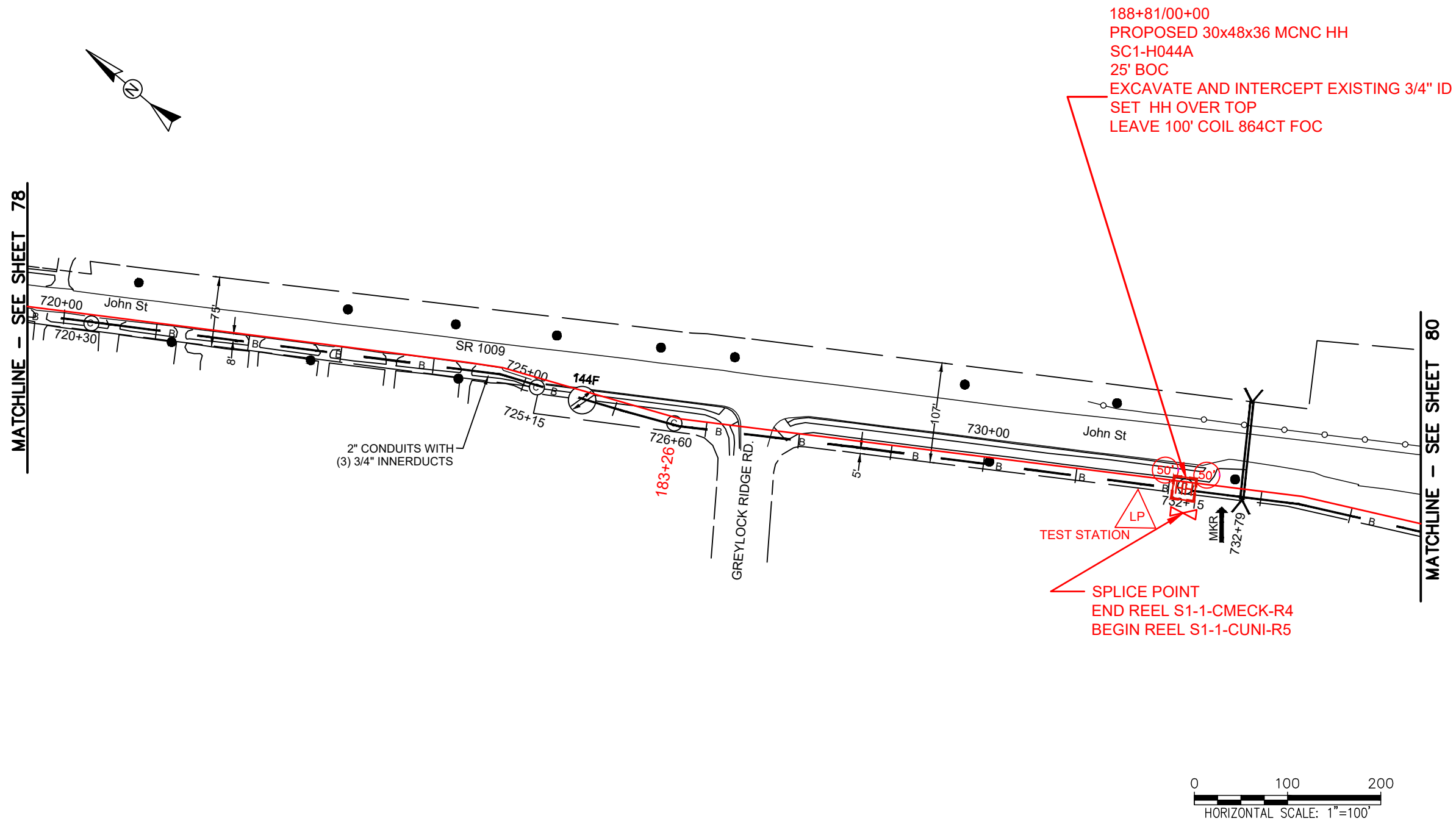


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE:	NTS	SHEET NUMBER:
PLOT DATE:	3/24/25	78 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CMECK-R4 / S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

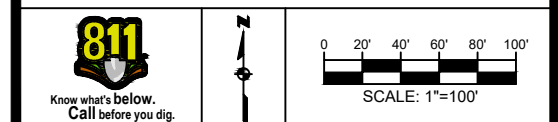
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

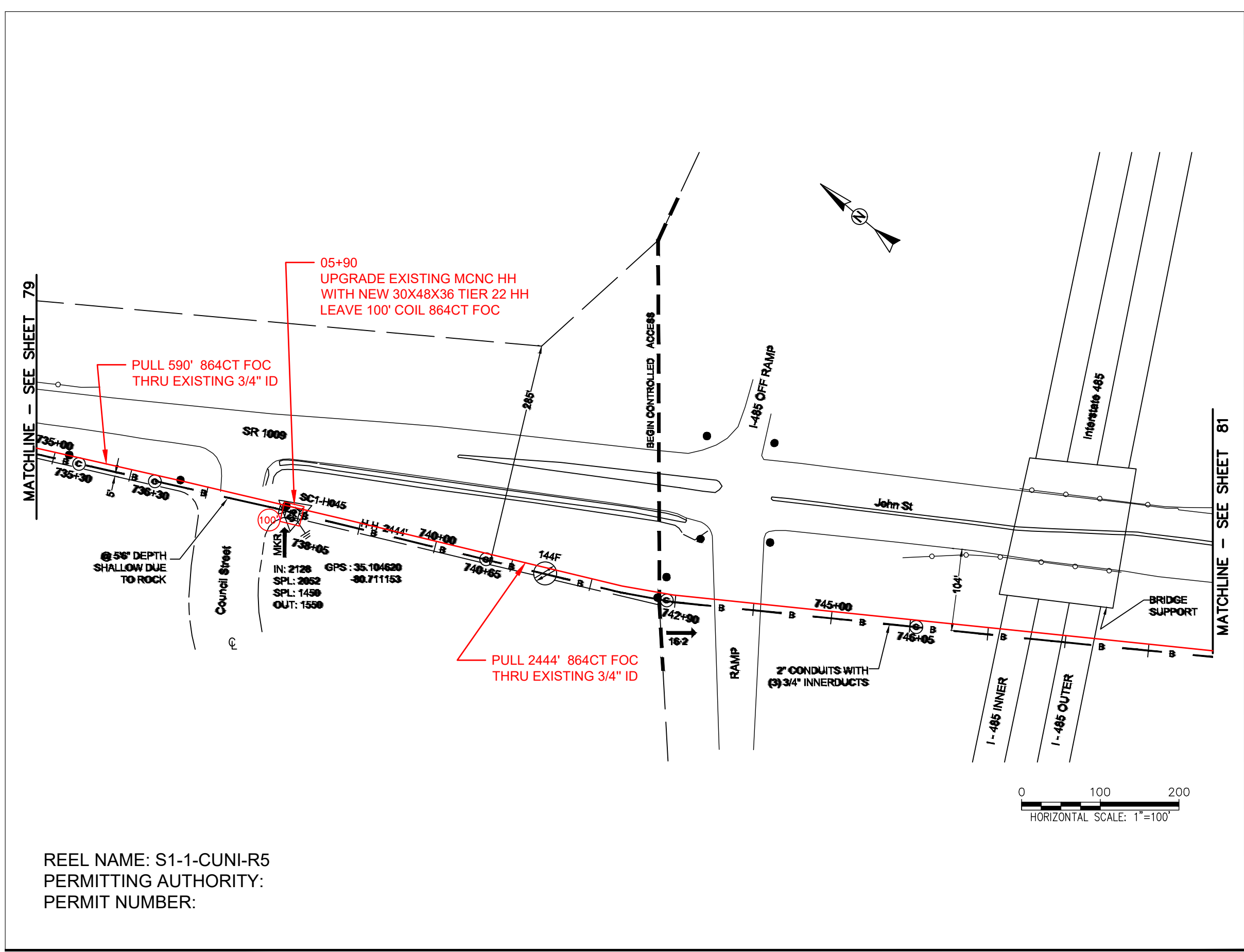


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 79 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

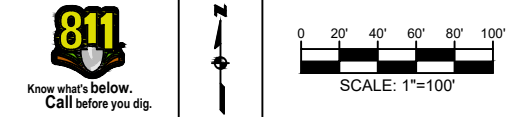
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

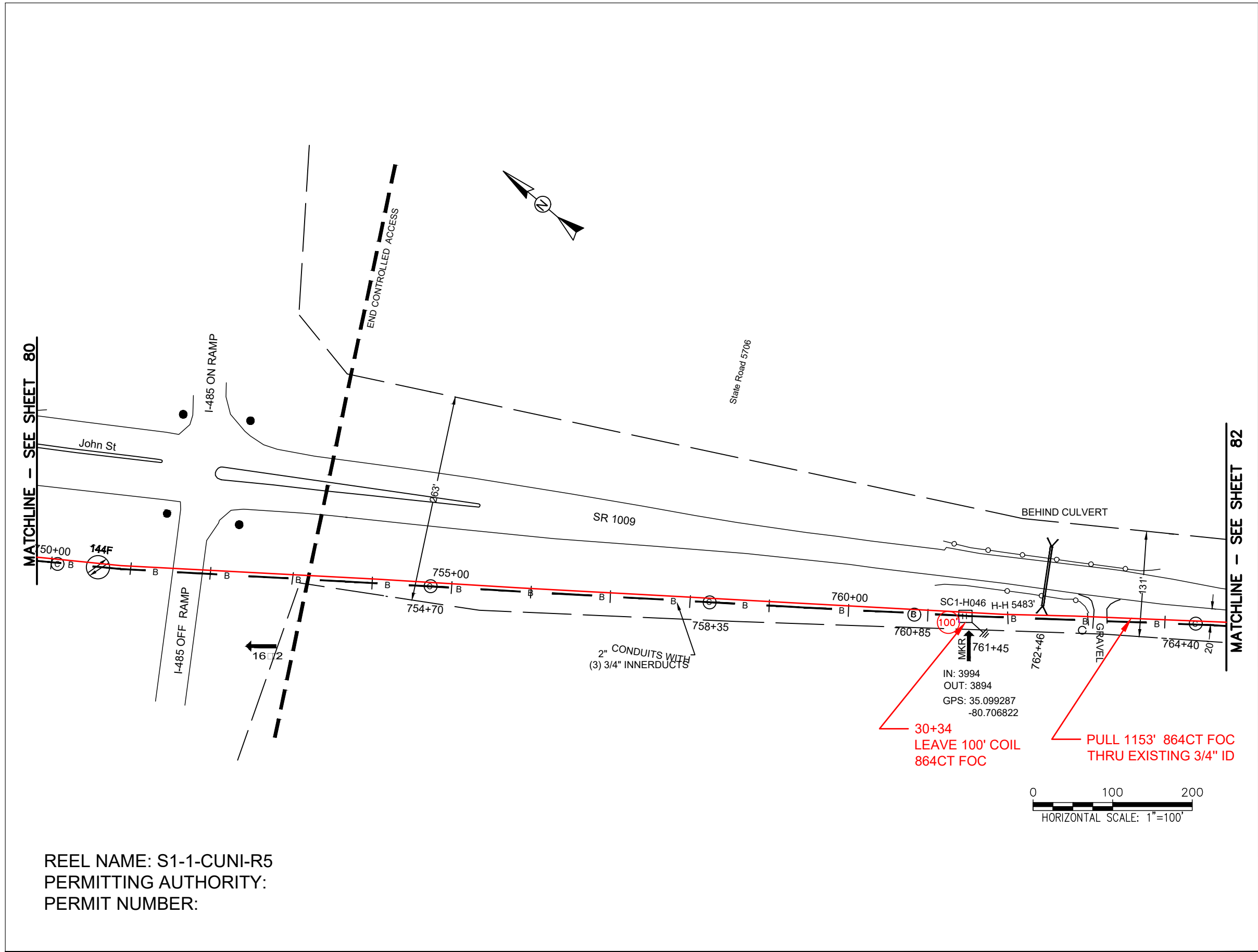
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 80 OF 220



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

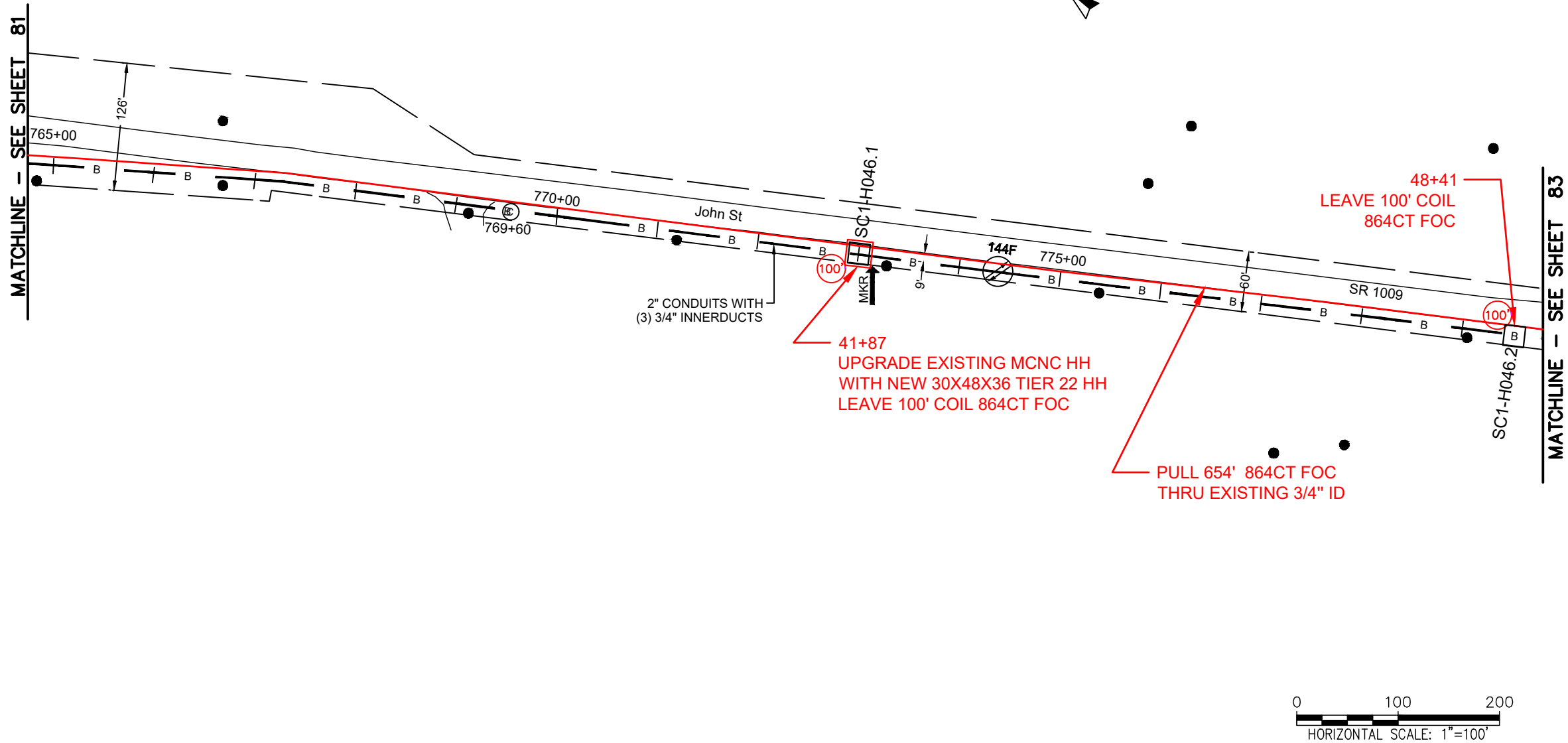
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 81
PLOT DATE: 3/24/25	OF
	220



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

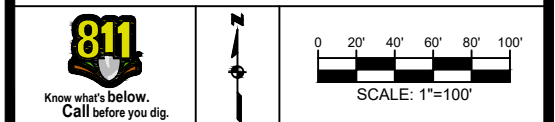
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

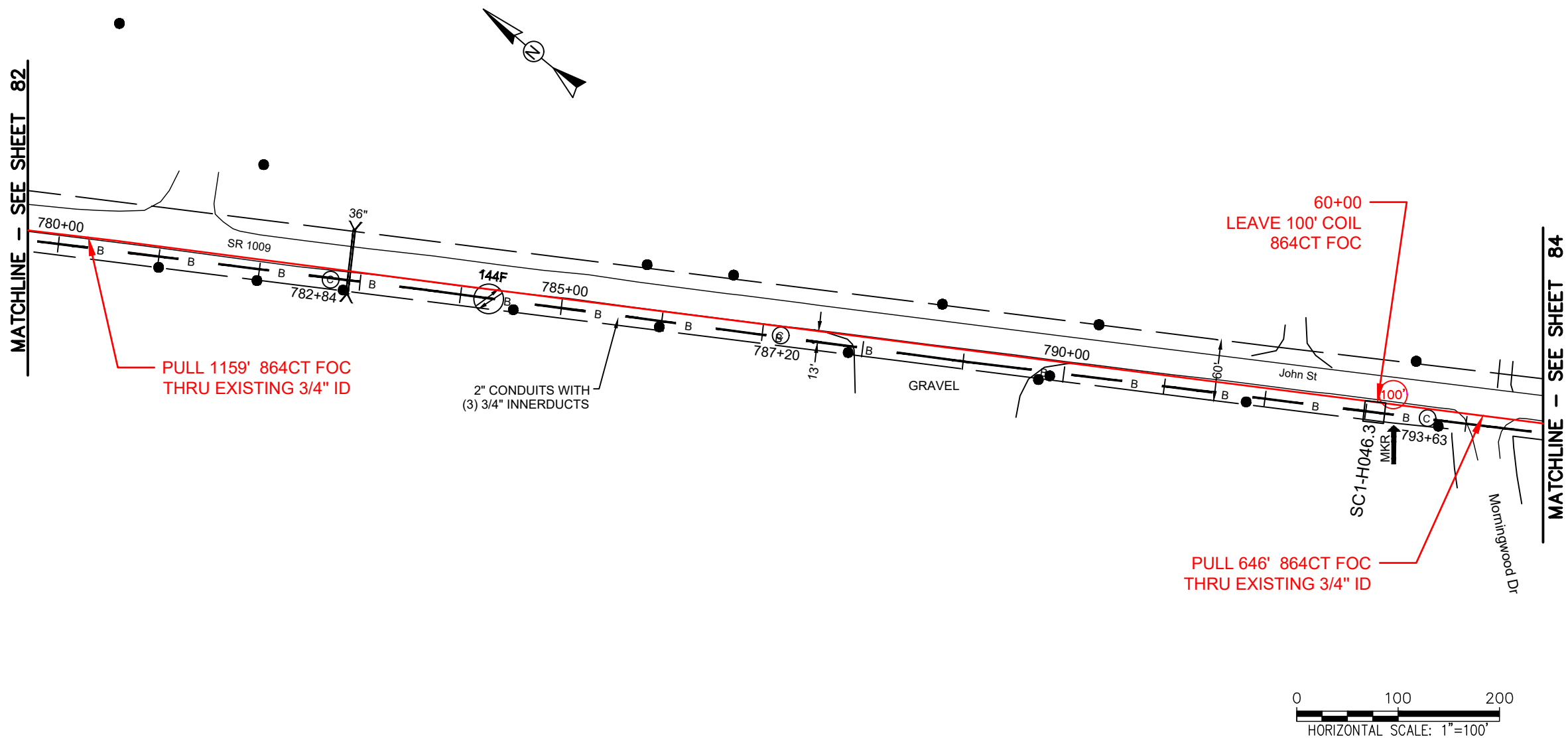


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 82 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

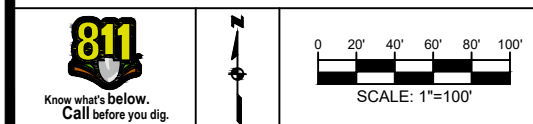
PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

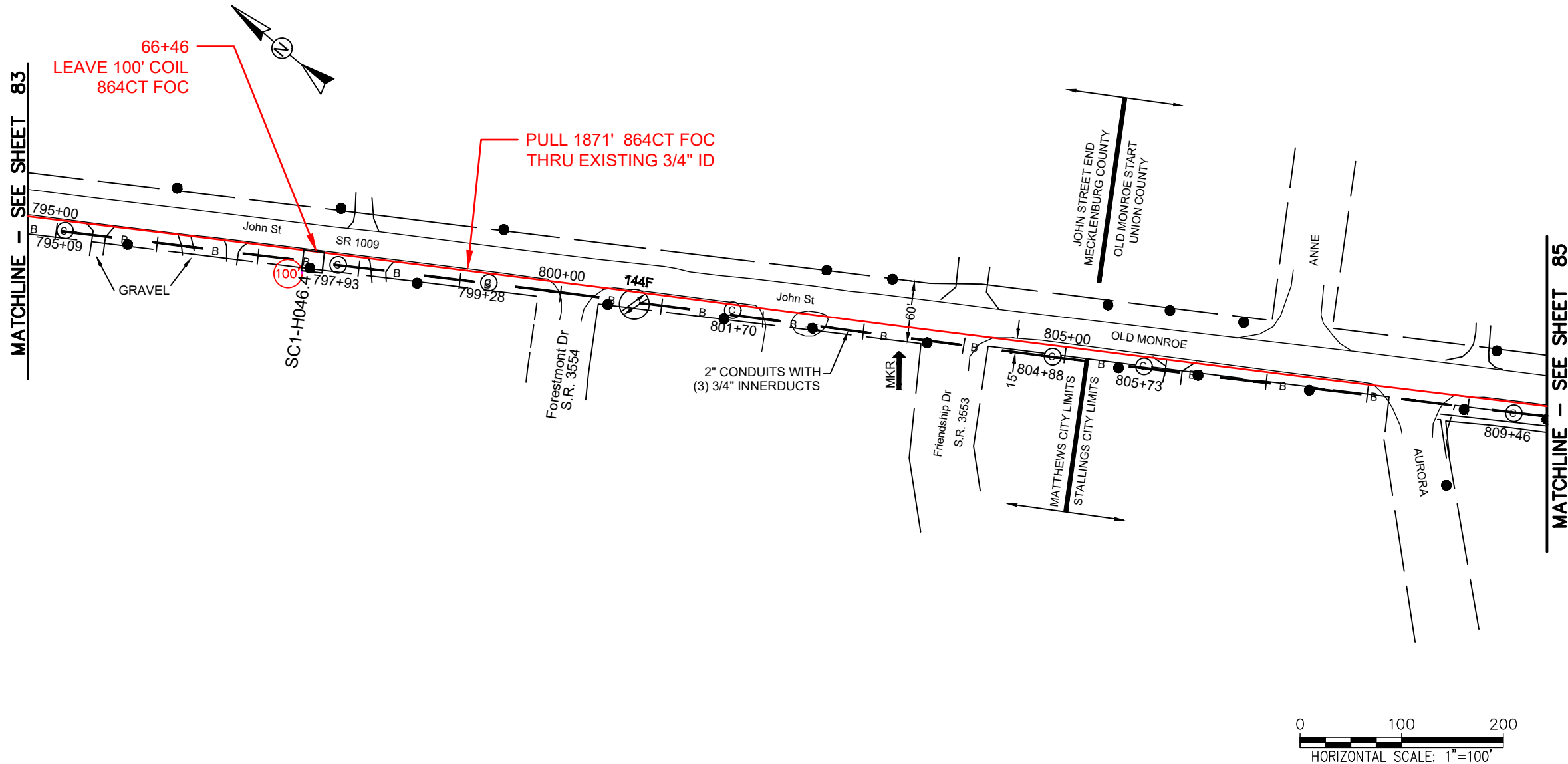


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 83 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



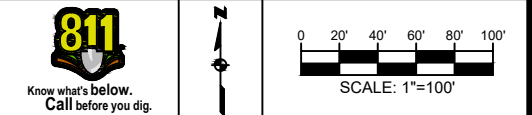
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

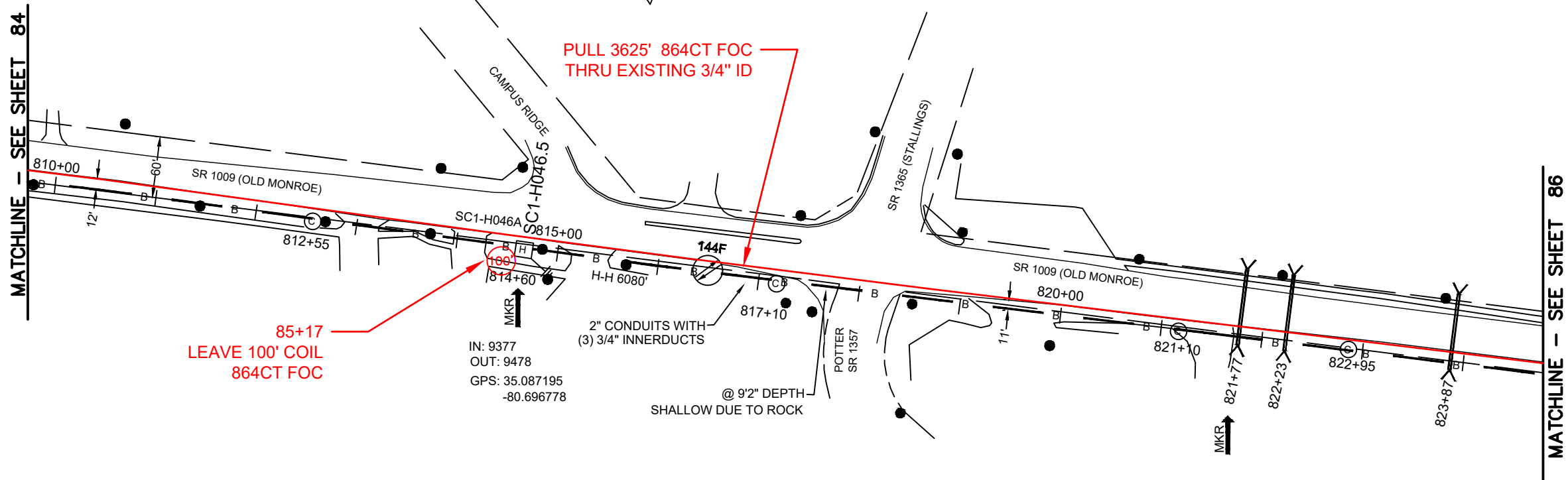


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 84 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

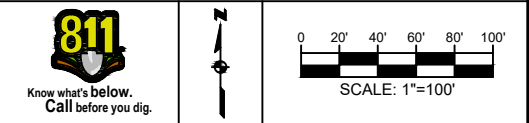
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



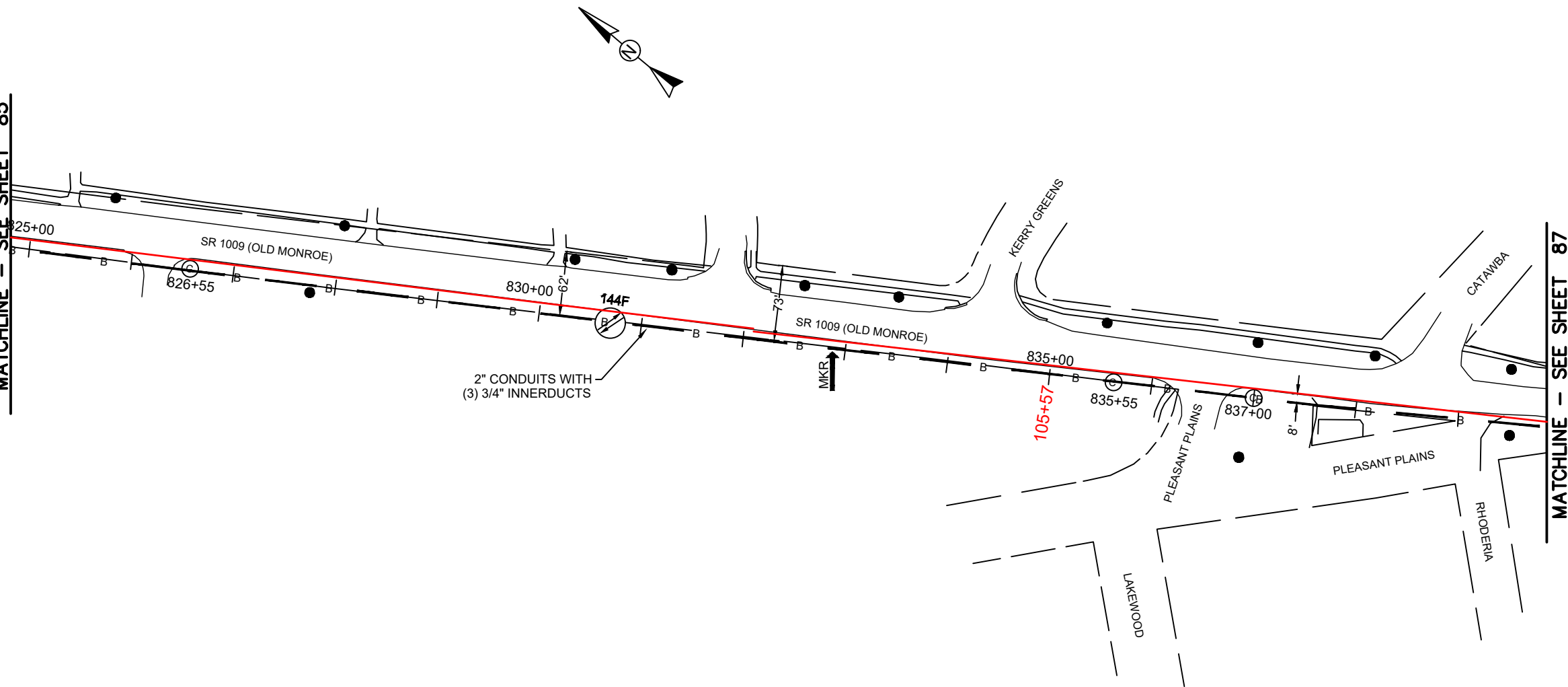
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 85 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

MATCHLINE - SEE SHEET 85



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

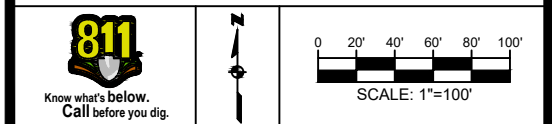
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



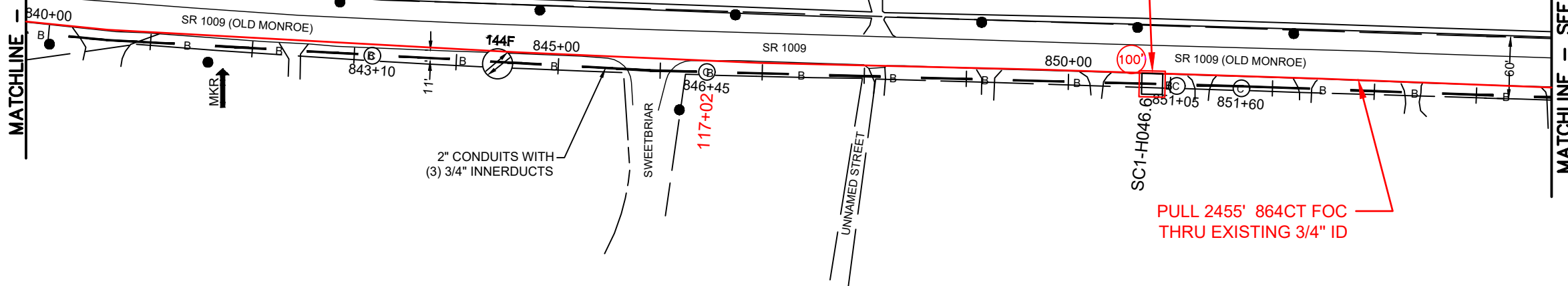
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 86 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

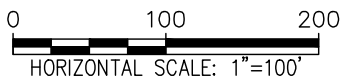
MATCHLINE - SEE SHEET 86



THE CONTRACTOR IS RESPONSIBLE FOR AN ASSIST POINT FOR PLACEMENT OF FIBER BETWEEN 838+00 & 843+00

121+42
UPGRADE EXISTING MCNC HH
WITH NEW 30X48X36 TIER 22 HH
LEAVE 100' COIL 864CT FOC

PULL 2455' 864CT FOC
THRU EXISTING 3/4" ID



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

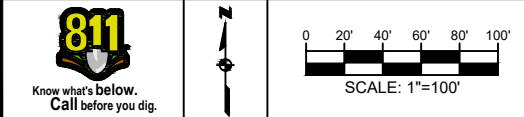
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

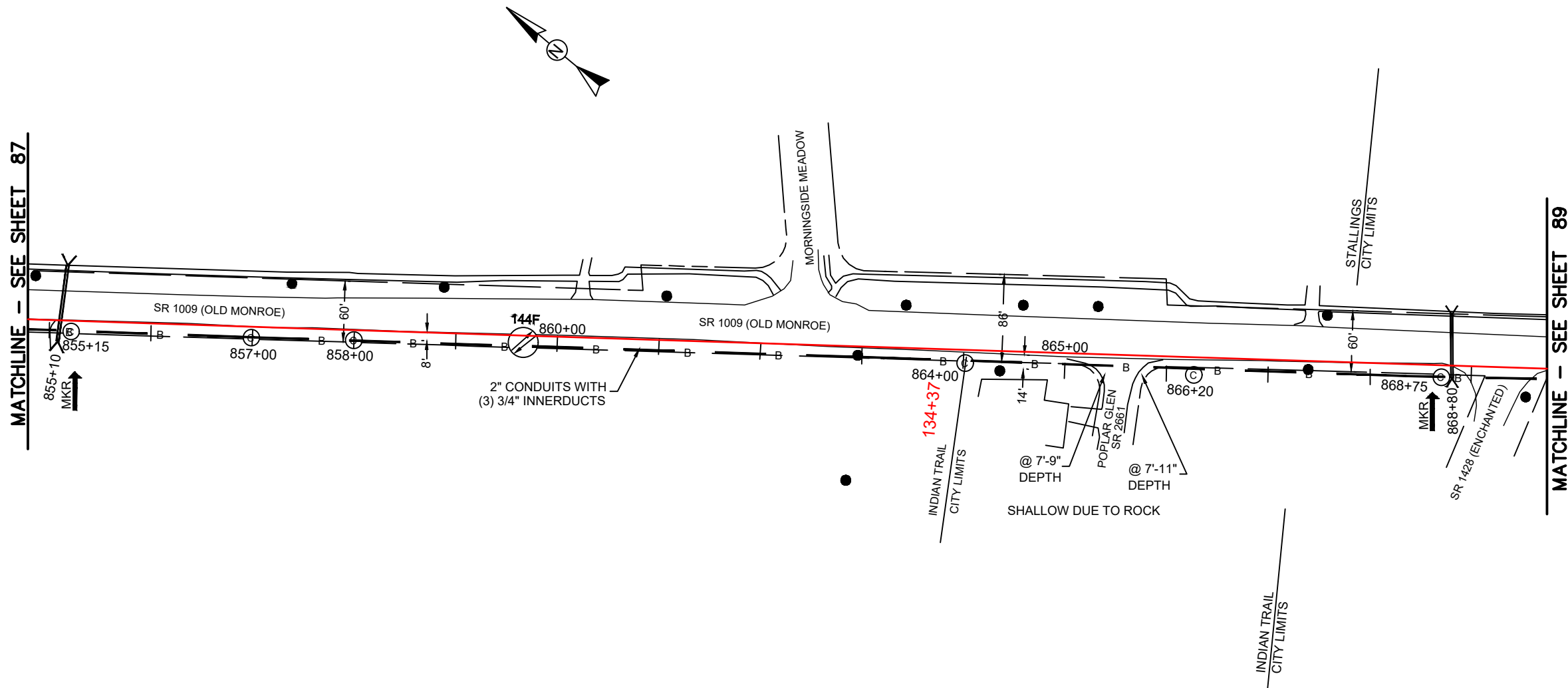


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 87 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



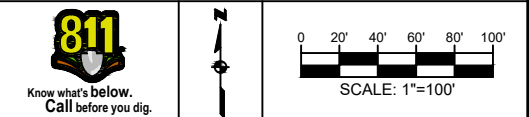
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

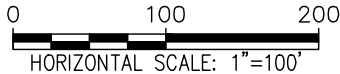
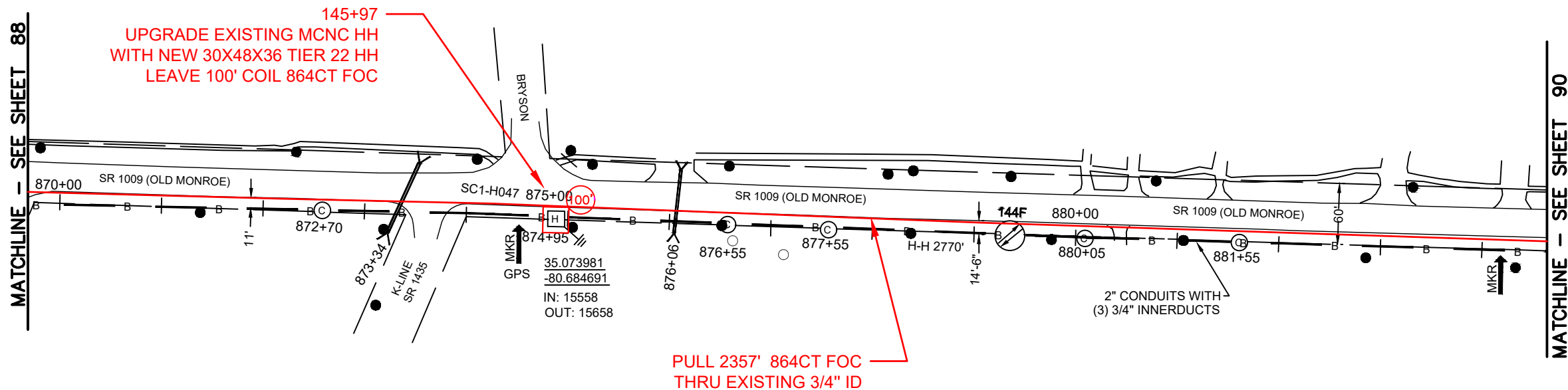


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 88 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



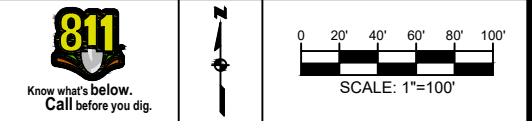
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

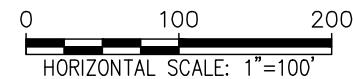
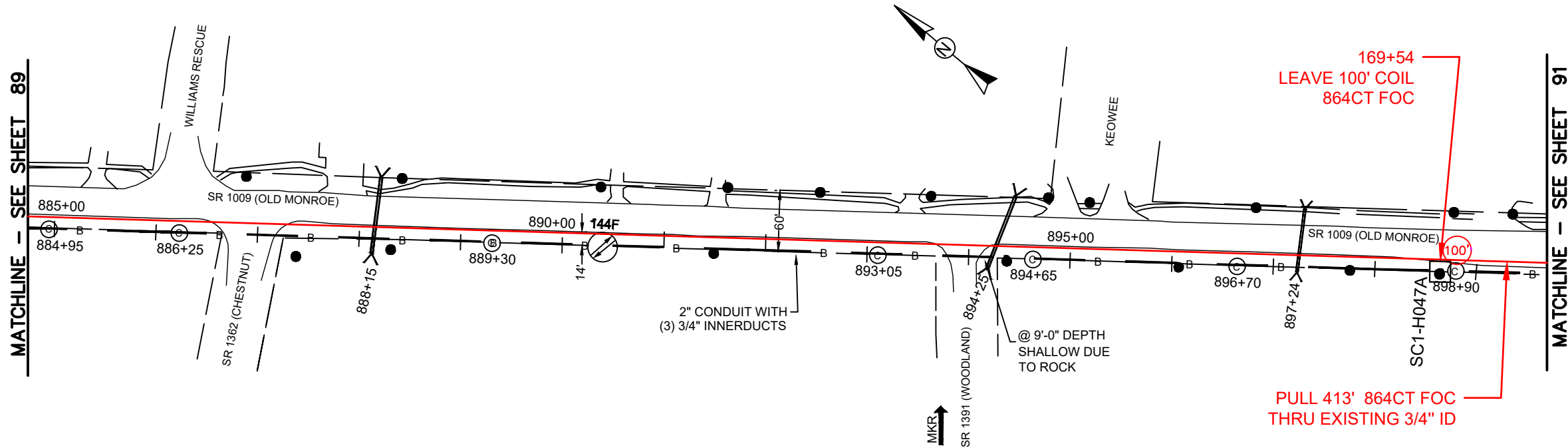


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 89 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

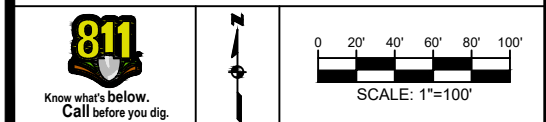
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

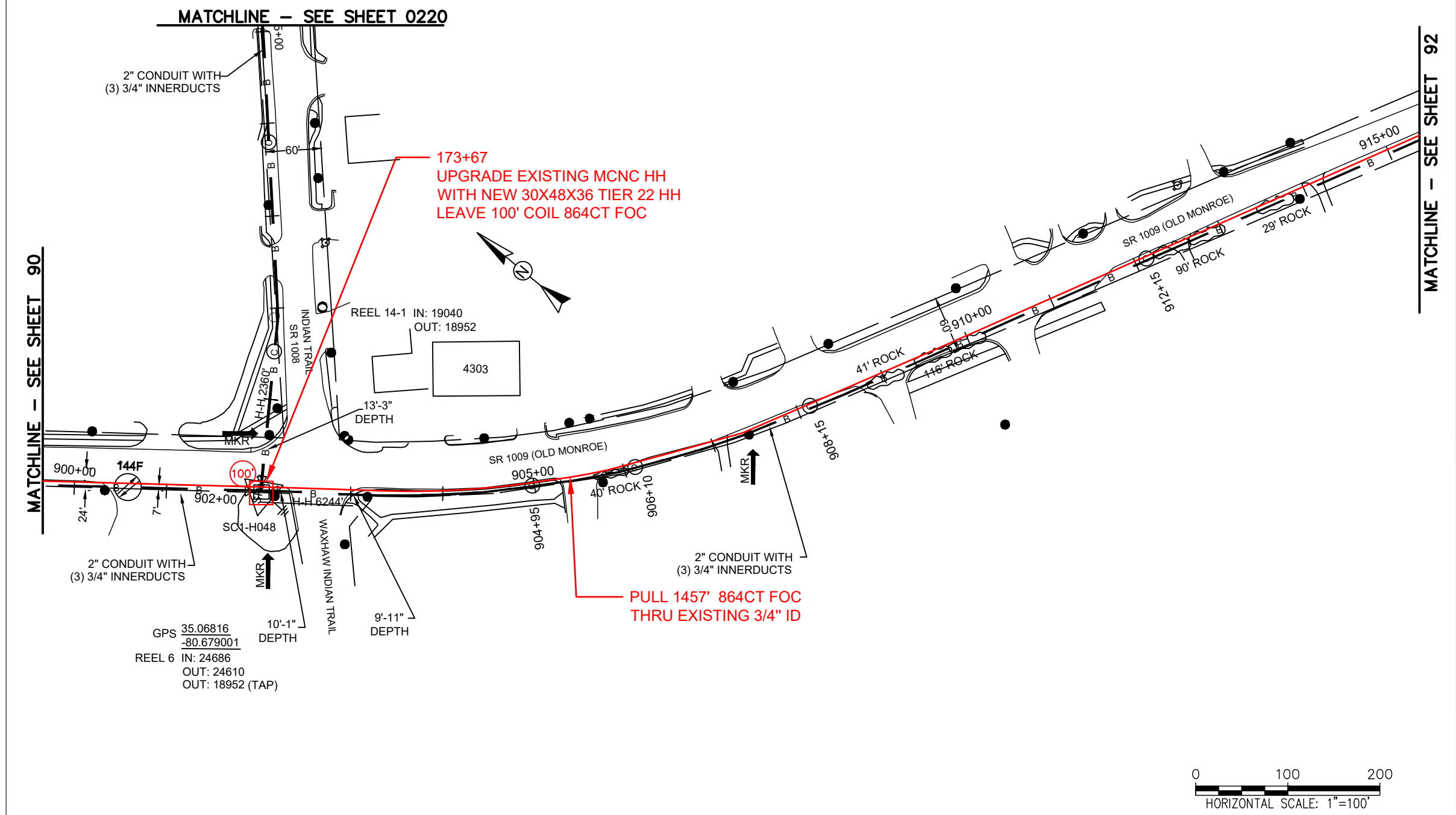


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 90 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R5
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

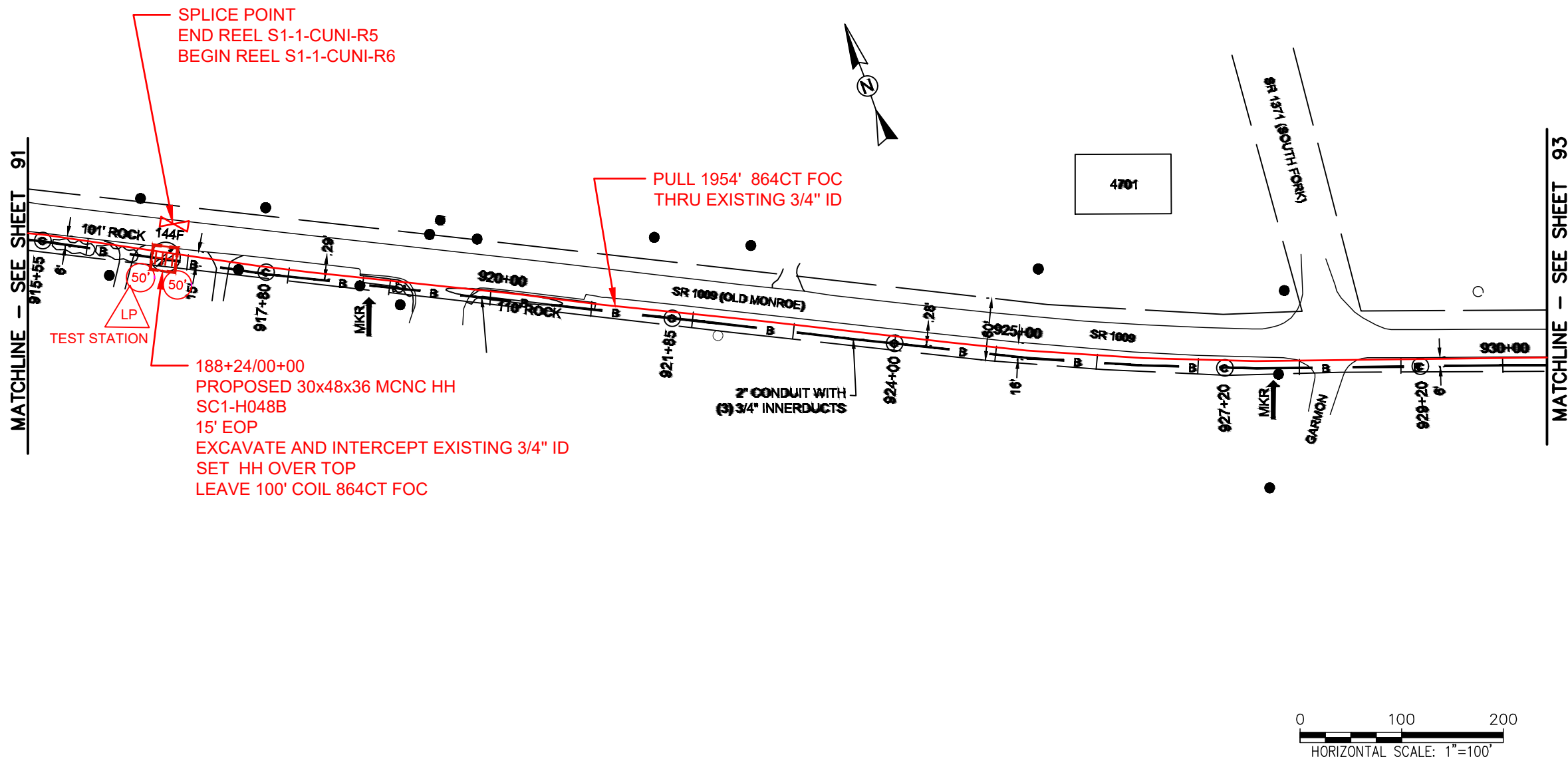
JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 91 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R5 / S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

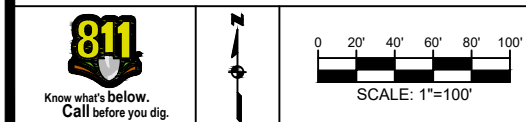
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



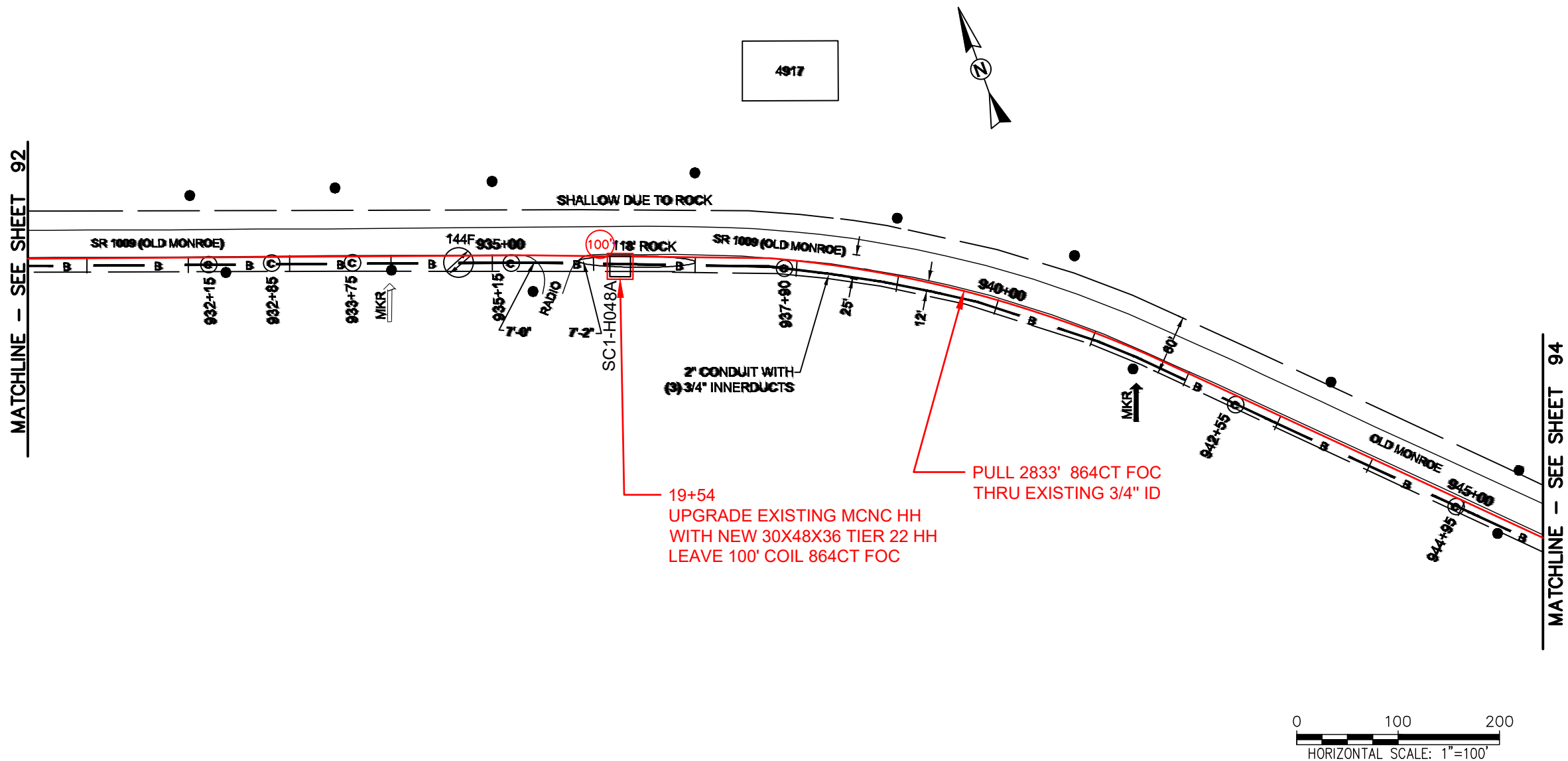
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 92 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

MATCHLINE - SEE SHEET 92



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

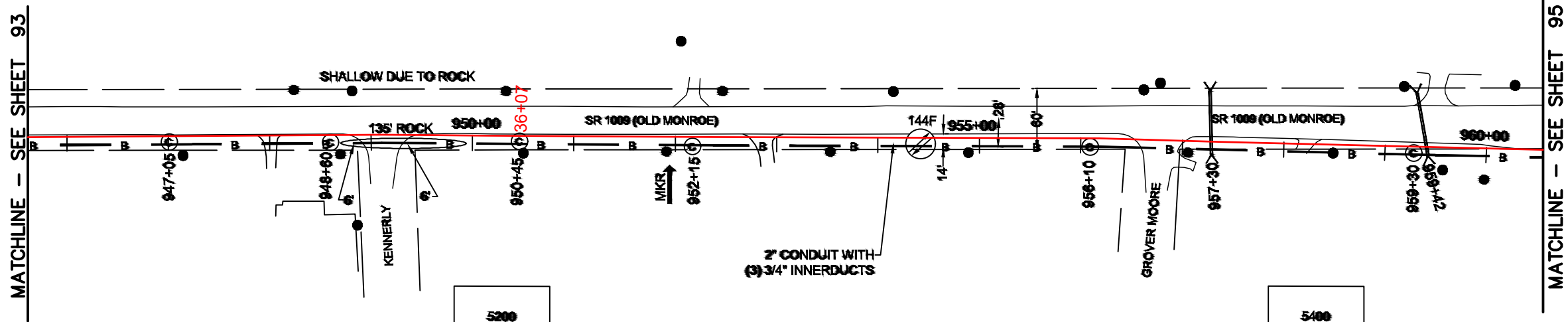
CONFIDENTIAL AND PROPRIETARY



CLIENT:	MCNC
JOB TITLE:	SEGMENT 1 ROUTE 1
JOB LOCATION:	CHARLOTTE-POLKTON
DESIGNER:	R.B.
DATE:	3/24/25

SCALE:	NTS	SHEET NUMBER:	93
PLOT DATE:	3/24/25		OF
			220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

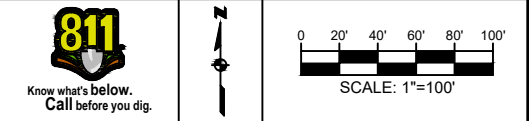
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

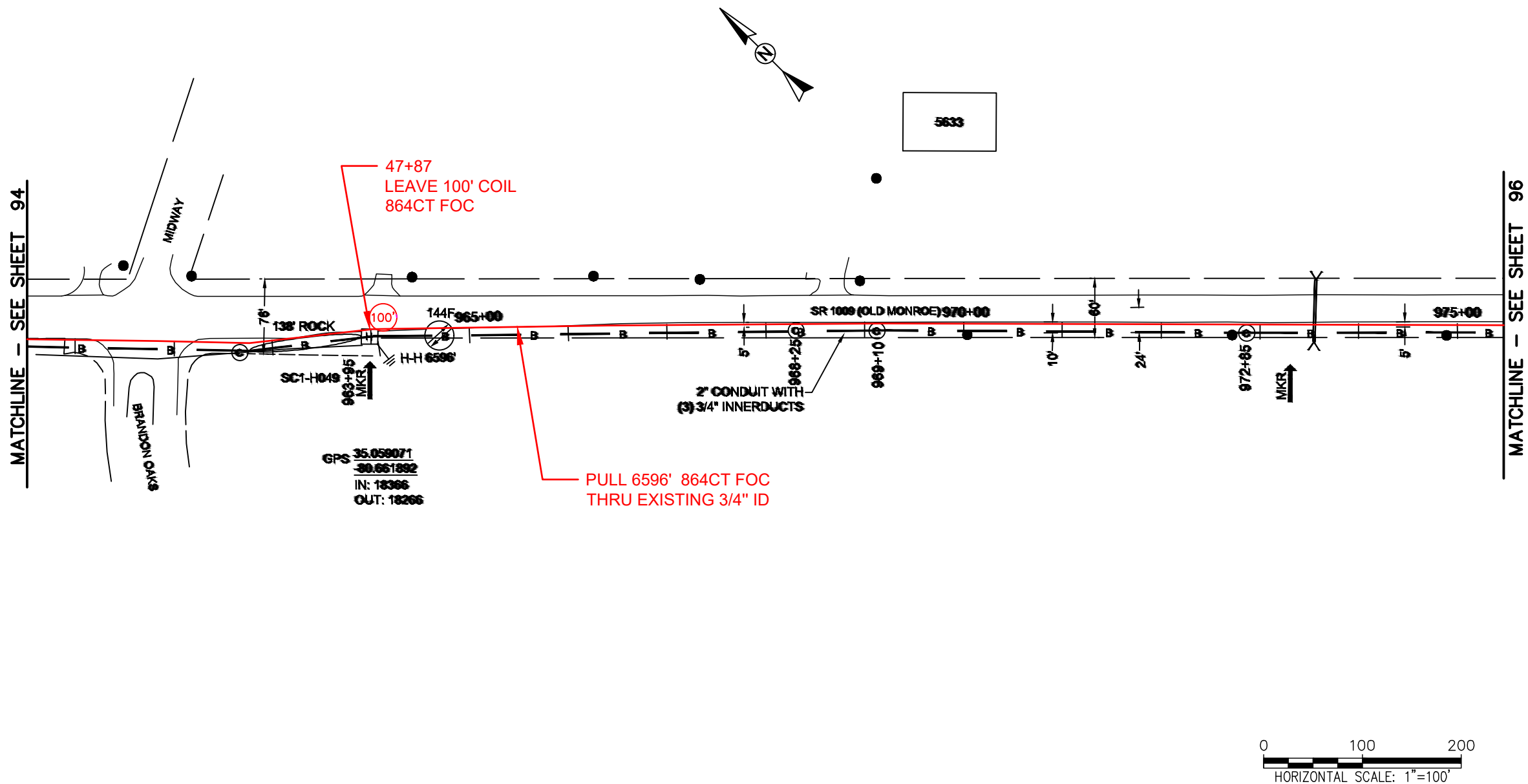


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 94 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

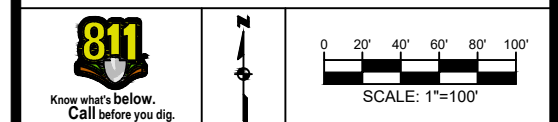
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

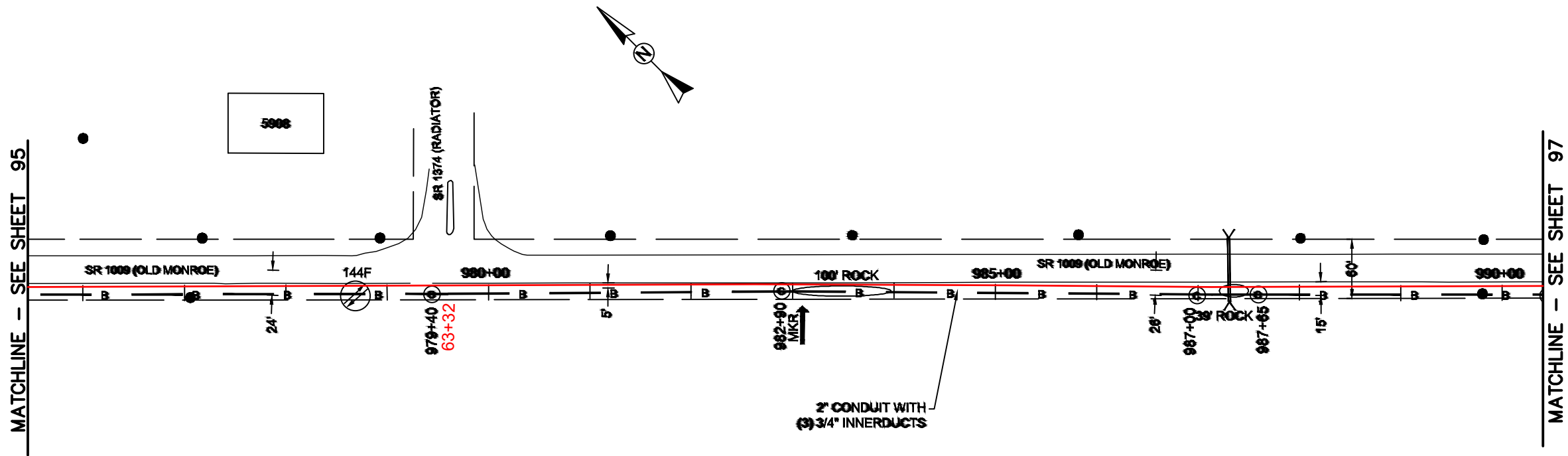


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 95 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

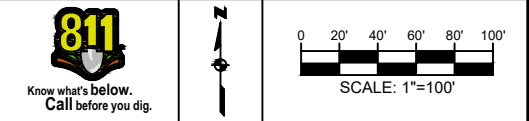
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 96 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY




CLIENT:
MCNC


JOB TITLE: SEGMENT 1 ROUTE 1

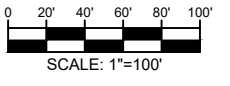
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

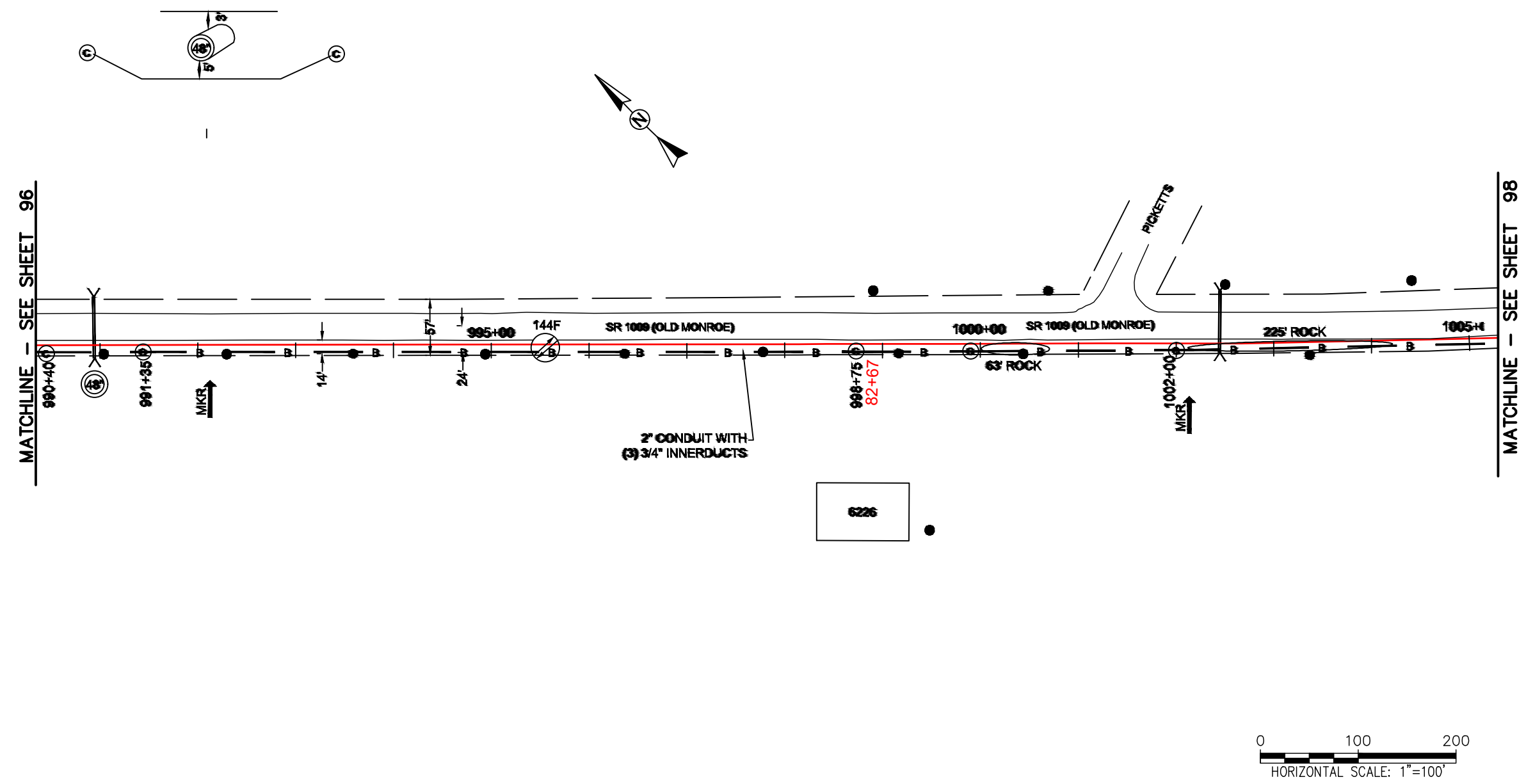




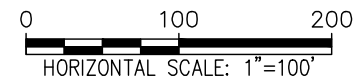
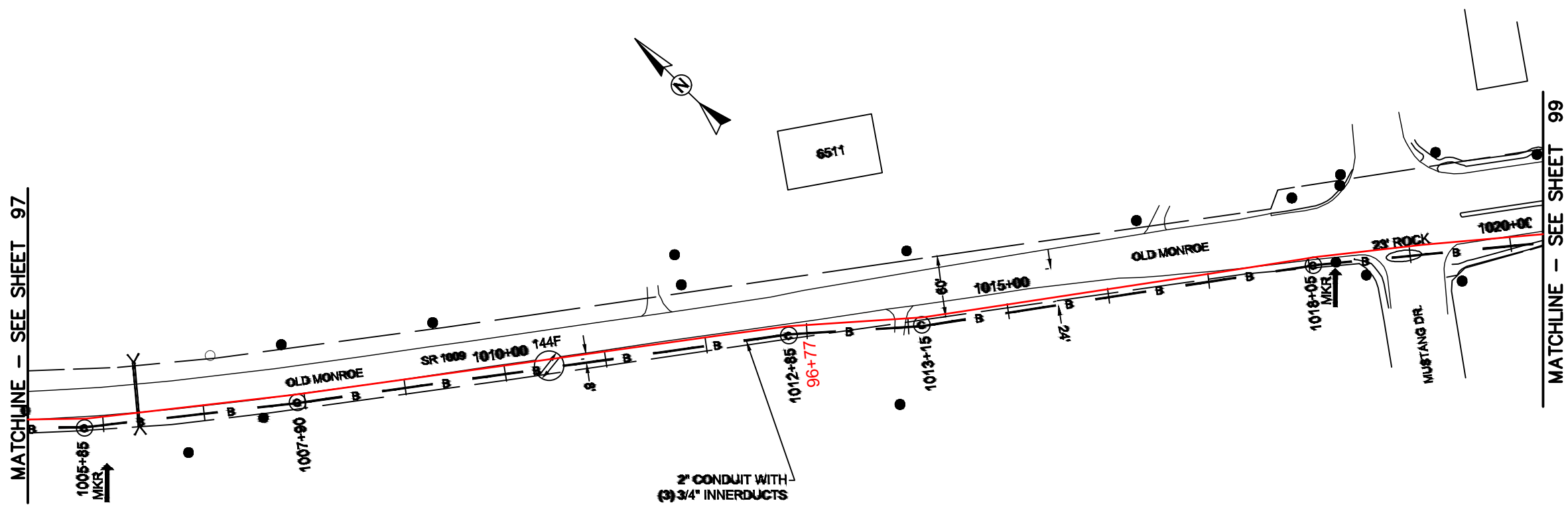


SCALE: NTS	SHEET NUMBER: 97 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

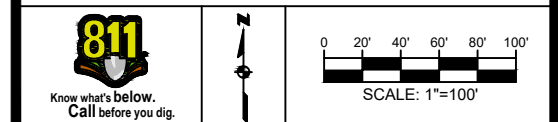
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

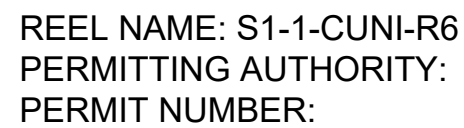


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 98 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

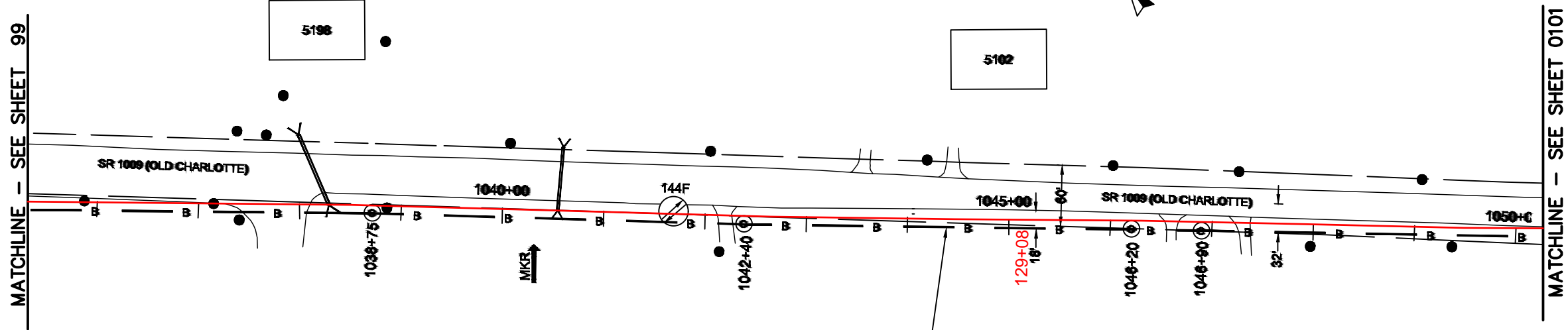
SHEET NUMBER:

99

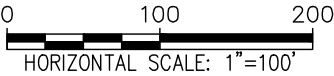
OF

220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



2" CONDUIT WITH
(3) 3/4" INNERDUCTS



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

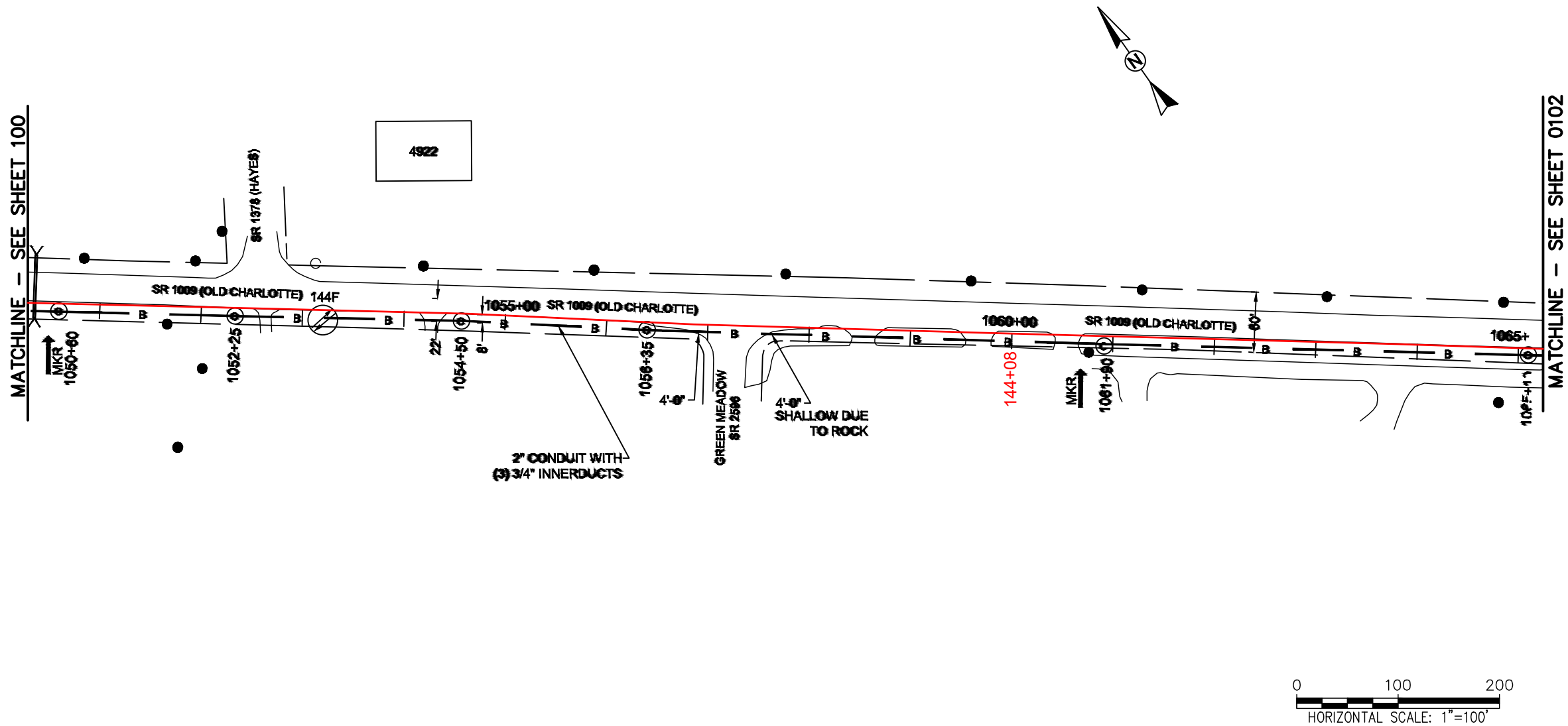
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 100 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



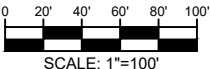


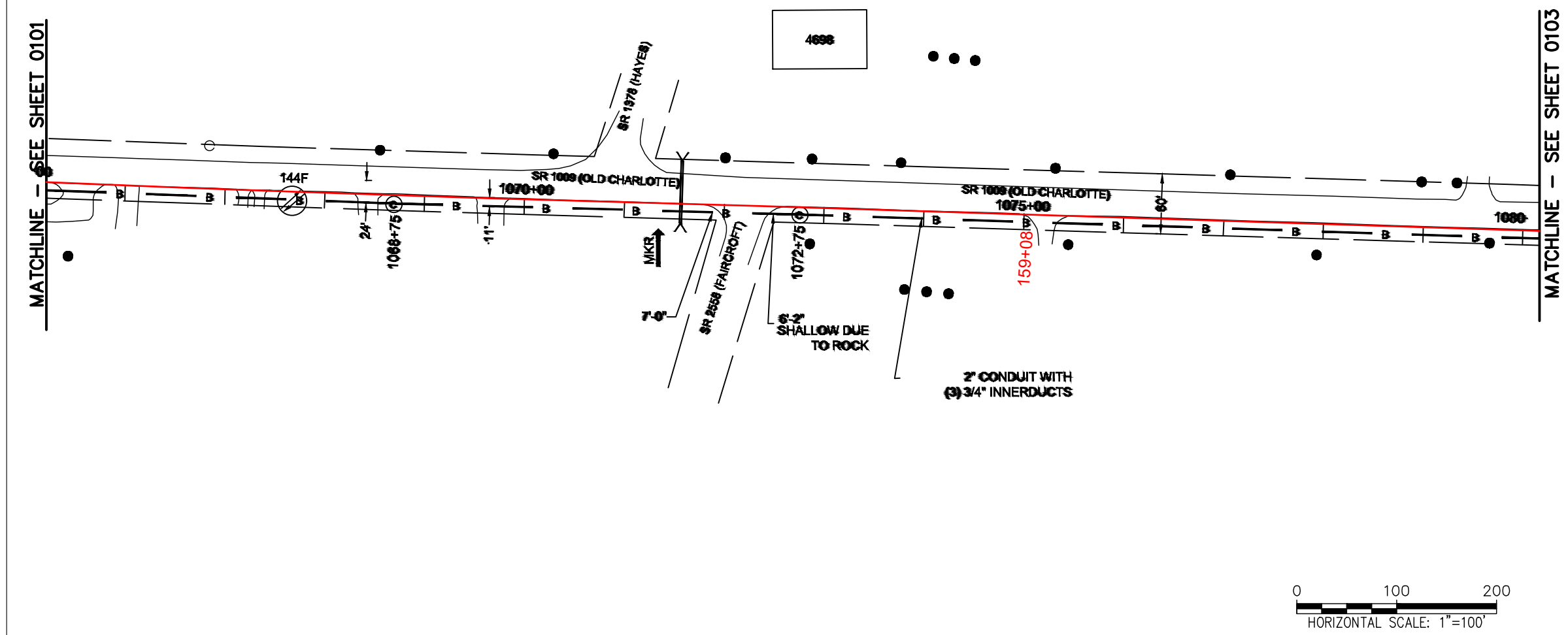
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
		
SCALE: NTS	SHEET NUMBER: 101 OF 220	
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.


SEE DETAILS C11/C12

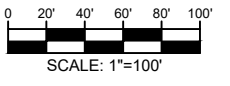
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

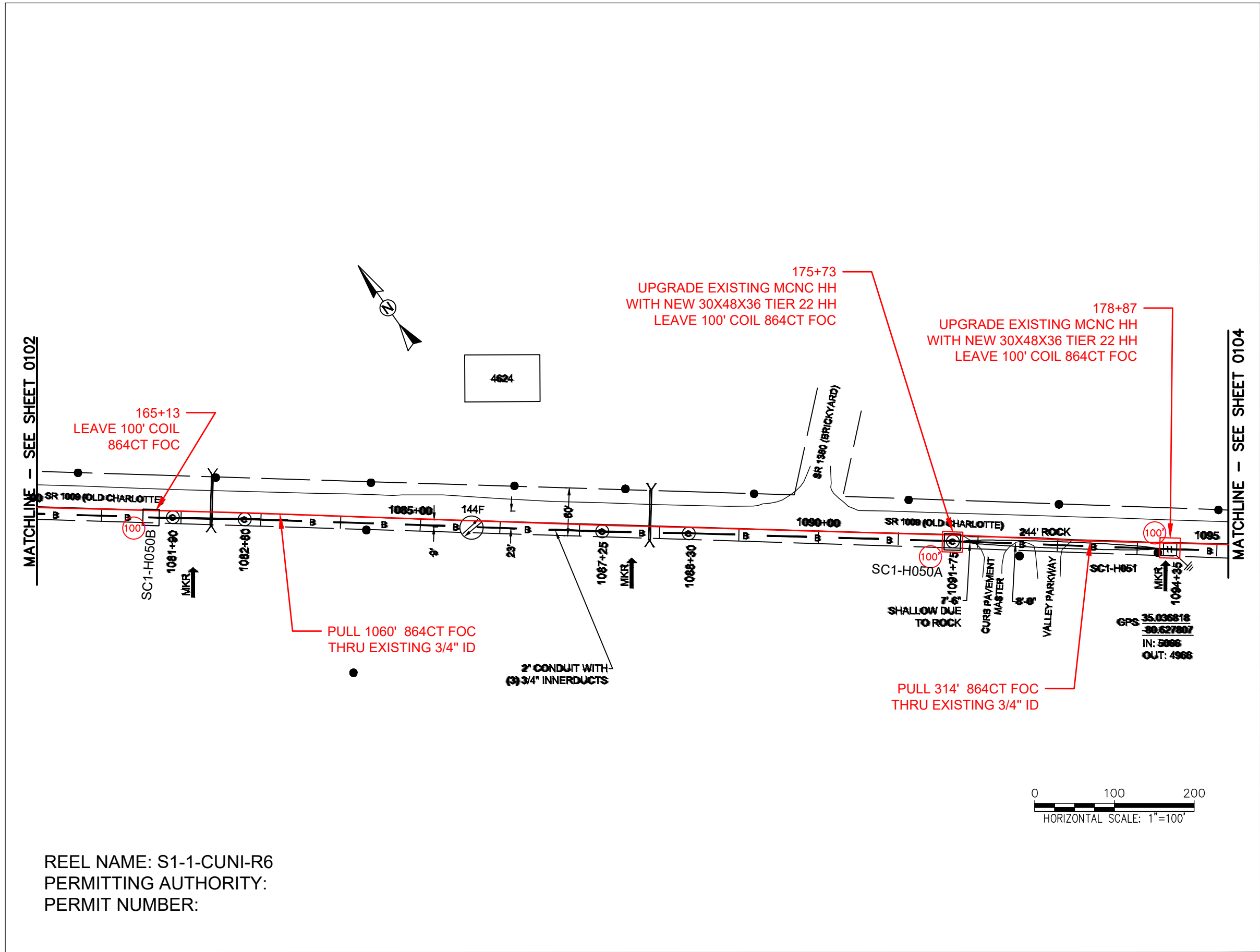






SCALE: NTS	SHEET NUMBER: 102 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

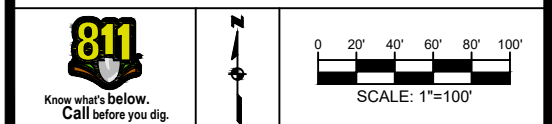
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

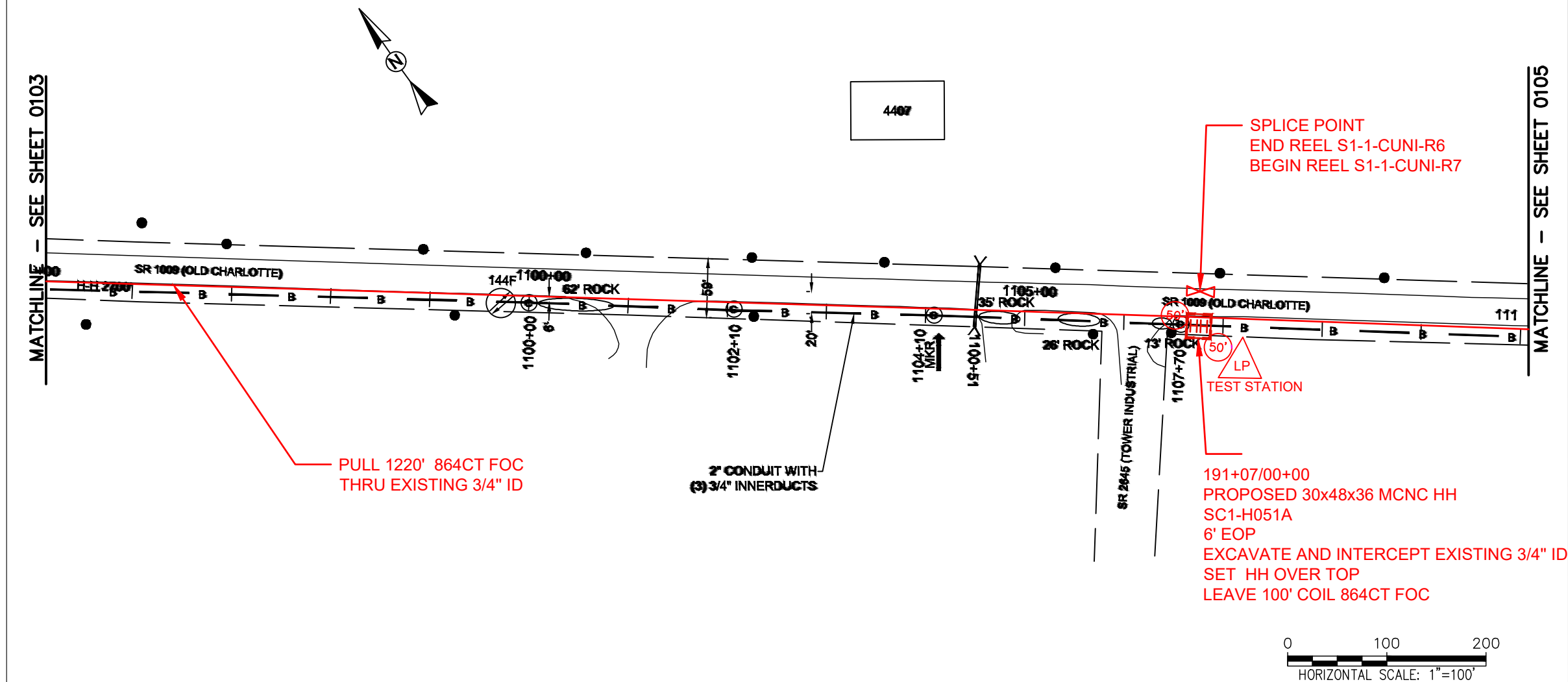


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 103 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R6 / S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



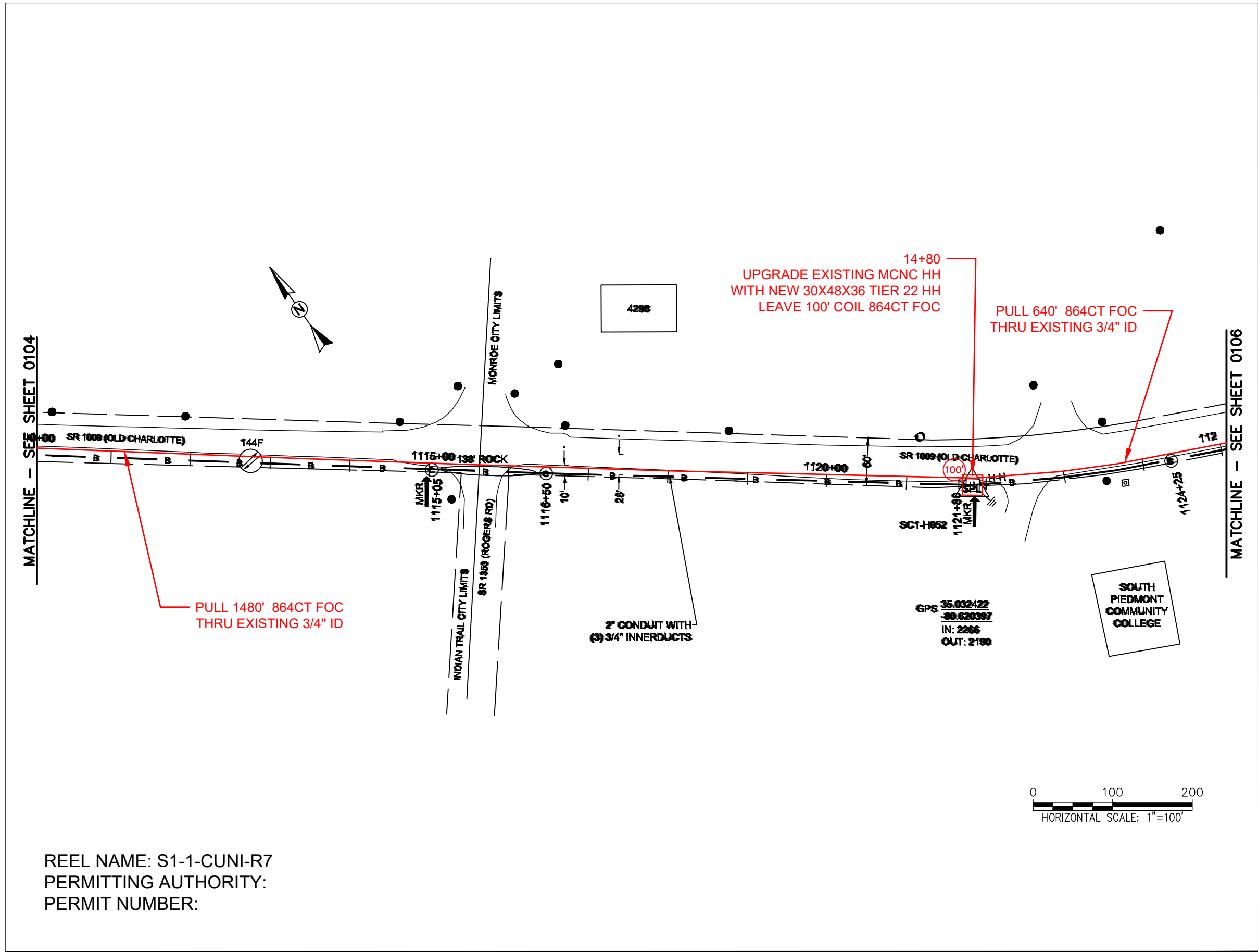
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
SCALE: NTS	SHEET NUMBER: 104 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

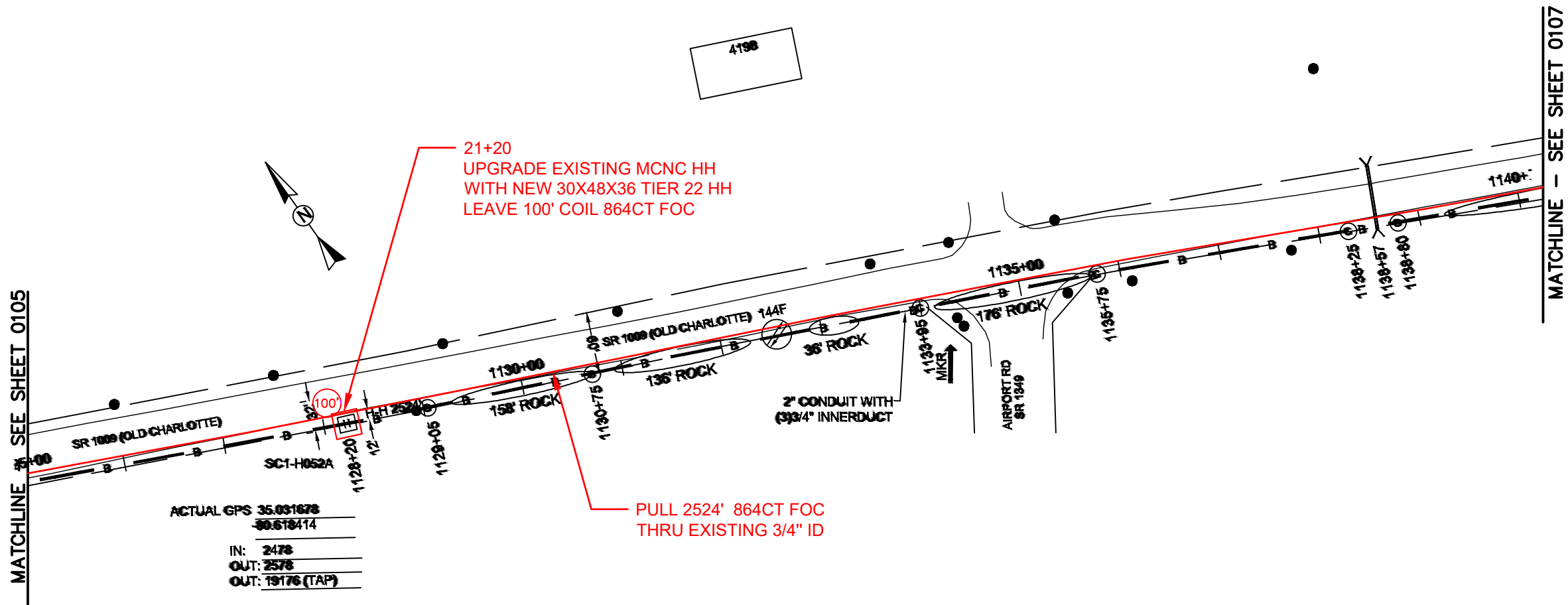


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 105 OF 220
PLOT DATE: 3/24/25	

REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

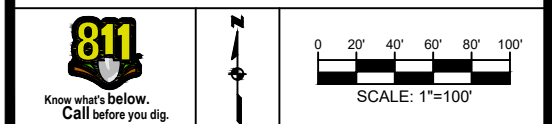
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

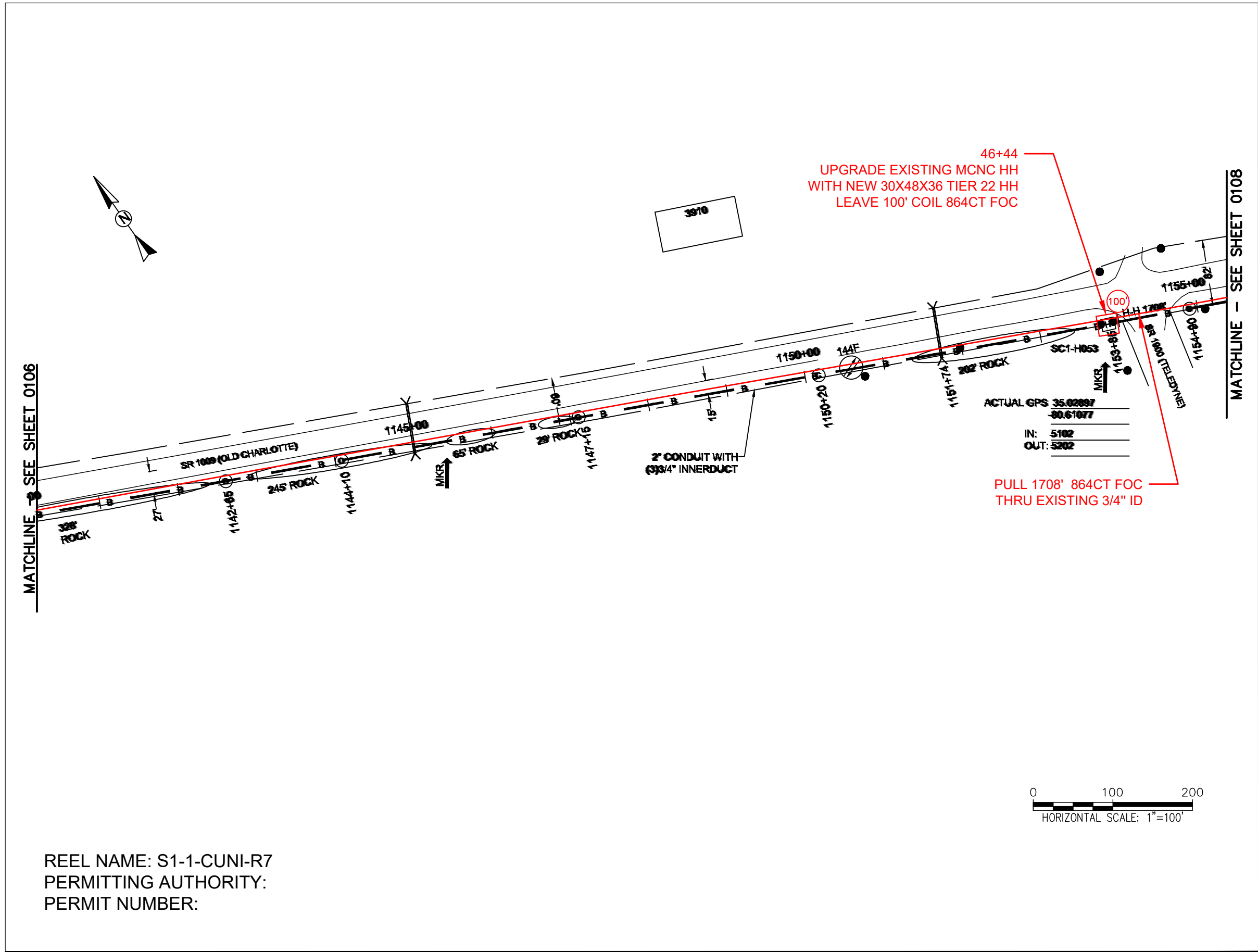


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 106 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

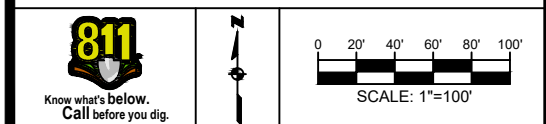
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

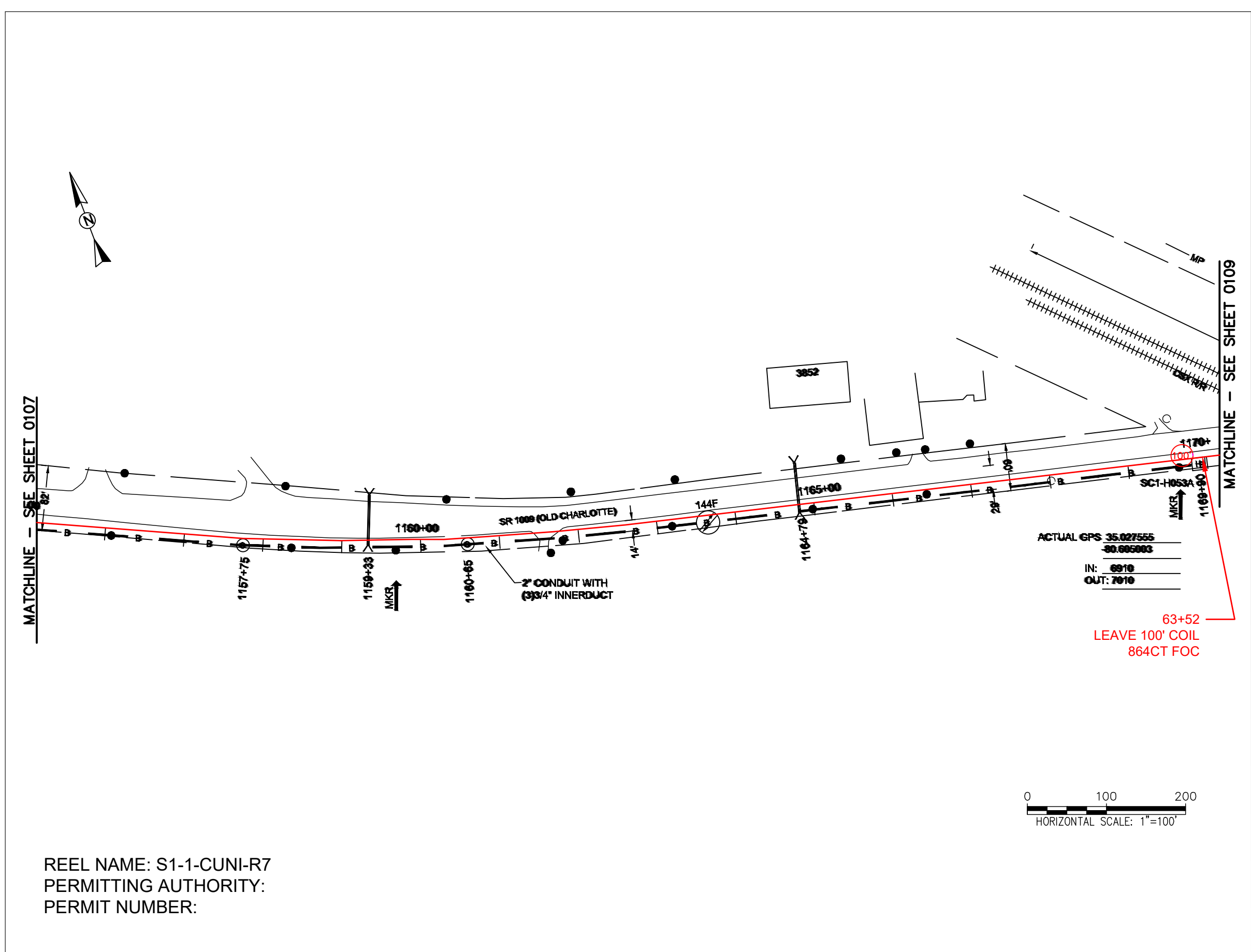


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 107 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

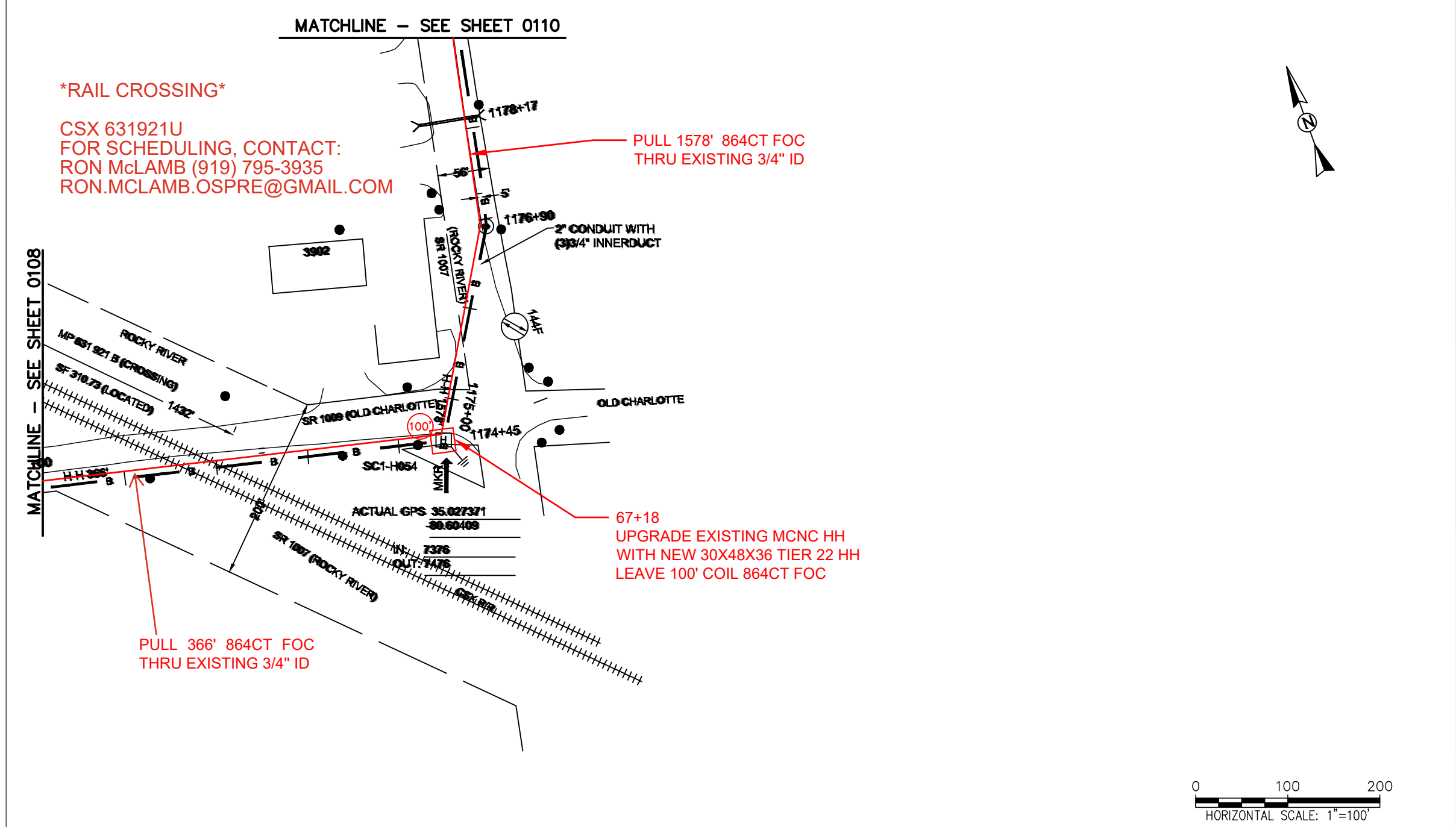
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 108 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



RAIL CROSSING

CSX 631921U
FOR SCHEDULING, CONTACT:
RON McLAMB (919) 795-3935
RON.MCLAMB.OSPRE@GMAIL.COM

PULL 1578' 864CT FOC
THRU EXISTING 3/4" ID

67+18
UPGRADE EXISTING MCNC HH
WITH NEW 30X48X36 TIER 22 HH
LEAVE 100' COIL 864CT FOC

PULL 366' 864CT FOC
THRU EXISTING 3/4" ID

REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CONFIDENTIAL AND PROPRIETARY

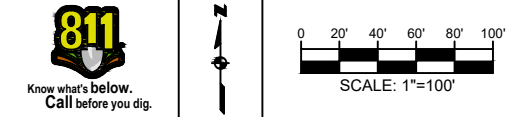
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

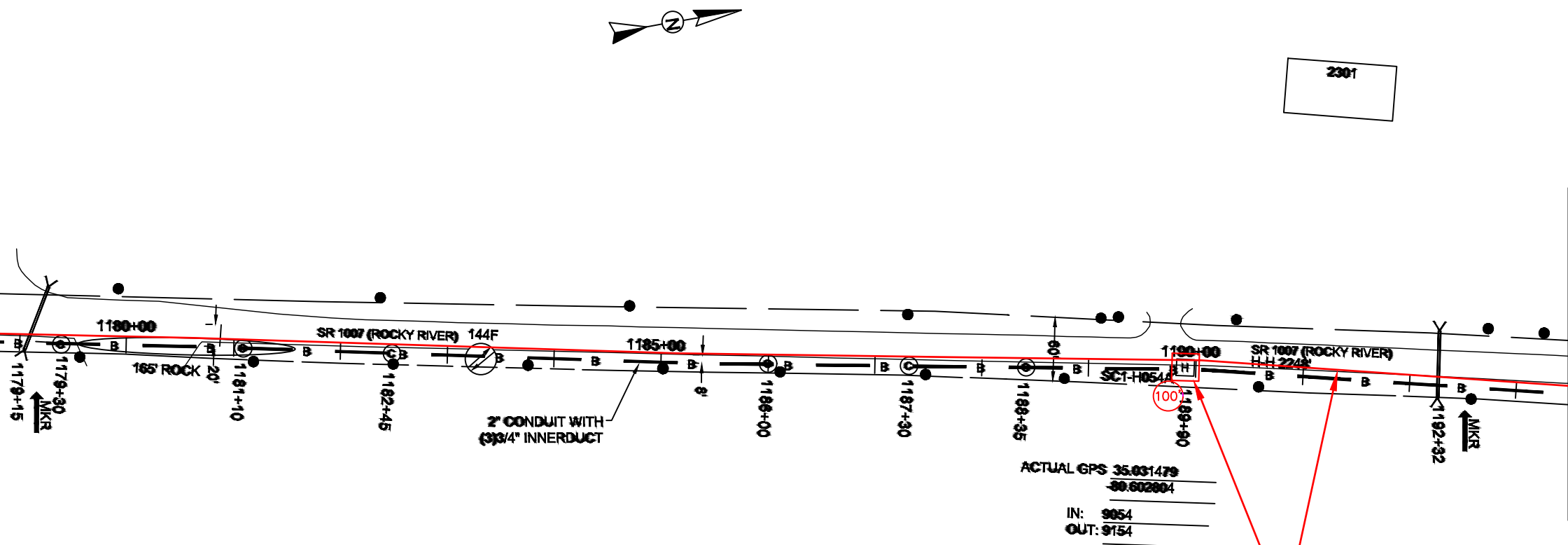
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 109 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

MATCHLINE - SEE SHEET 0109



82+96
UPGRADE EXISTING MCNC HH
WITH NEW 30X48X36 TIER 22 HH
LEAVE 100' COIL 864CT FOC

PULL 2248' 864CT FOC
THRU EXISTING 3/4\"/>

ACTUAL GPS 35.031479
-80.602804
IN: 9054
OUT: 9154



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

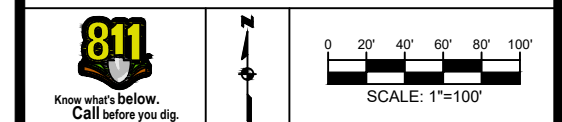
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

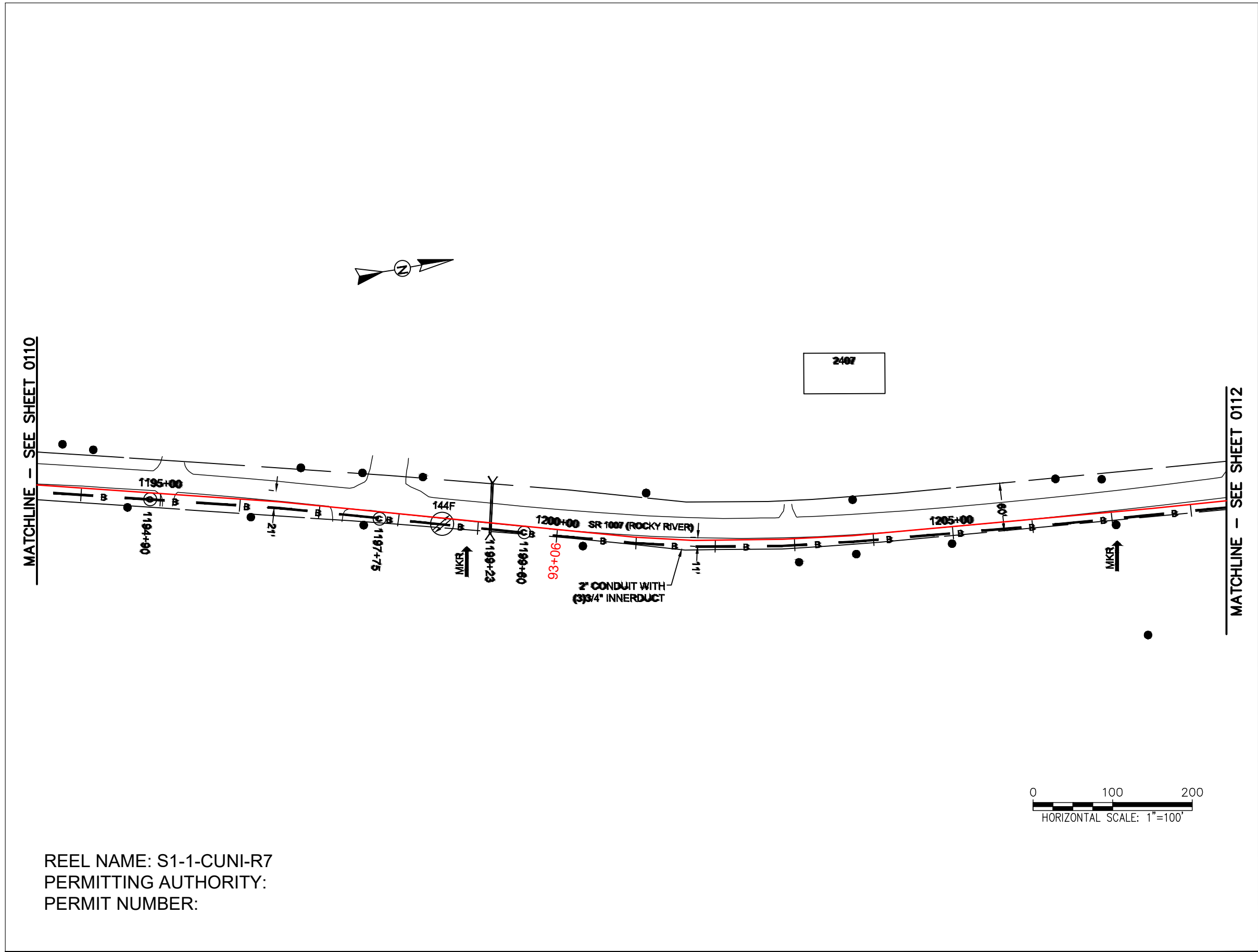


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 110
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

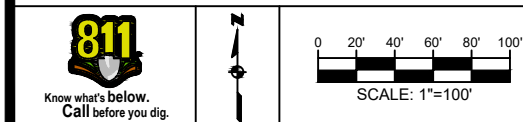
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

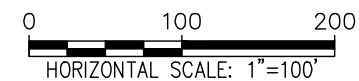
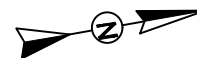
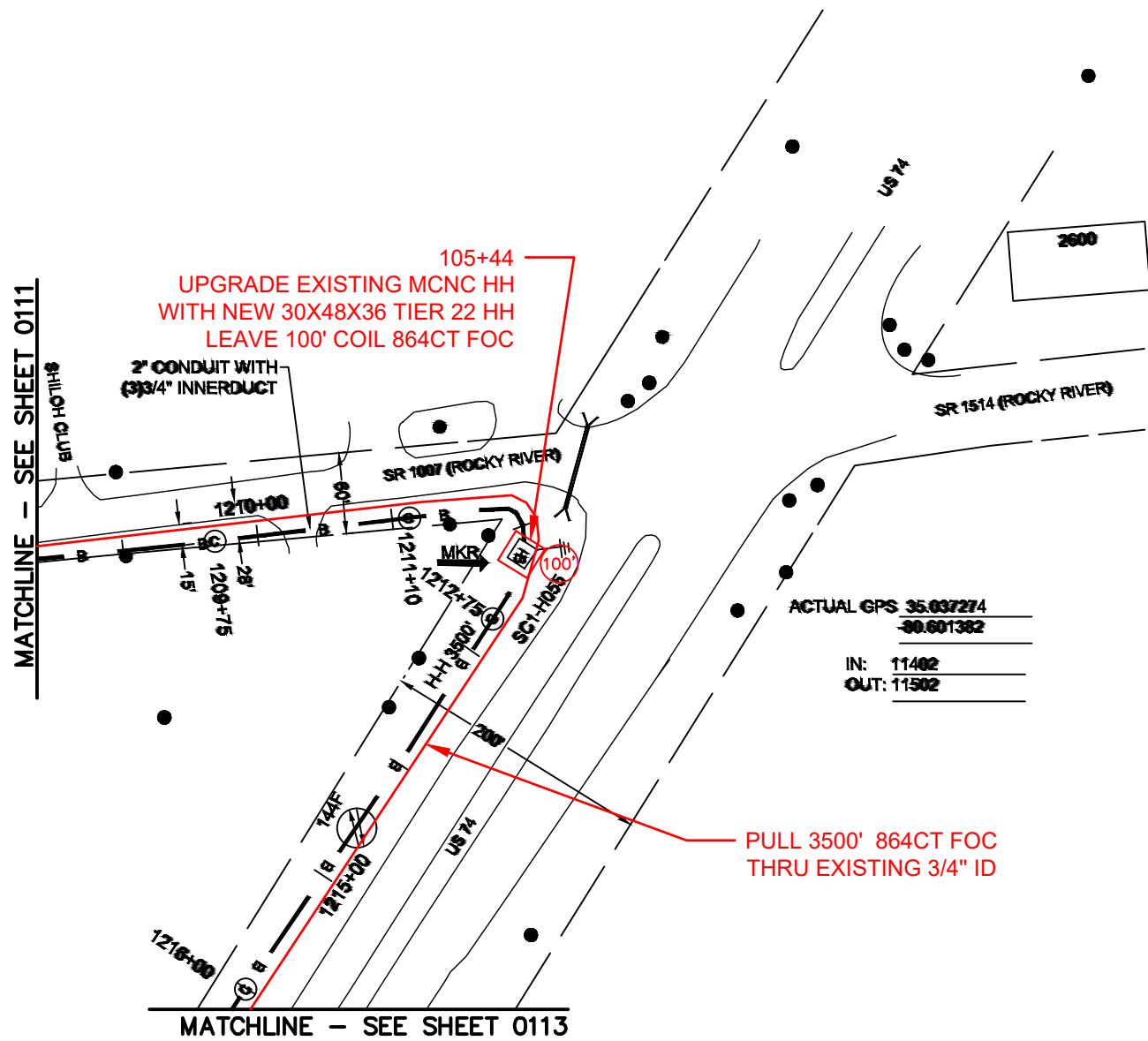


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 111 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

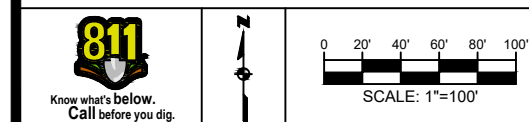
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 112 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



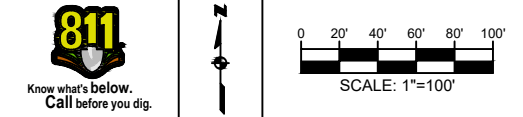
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

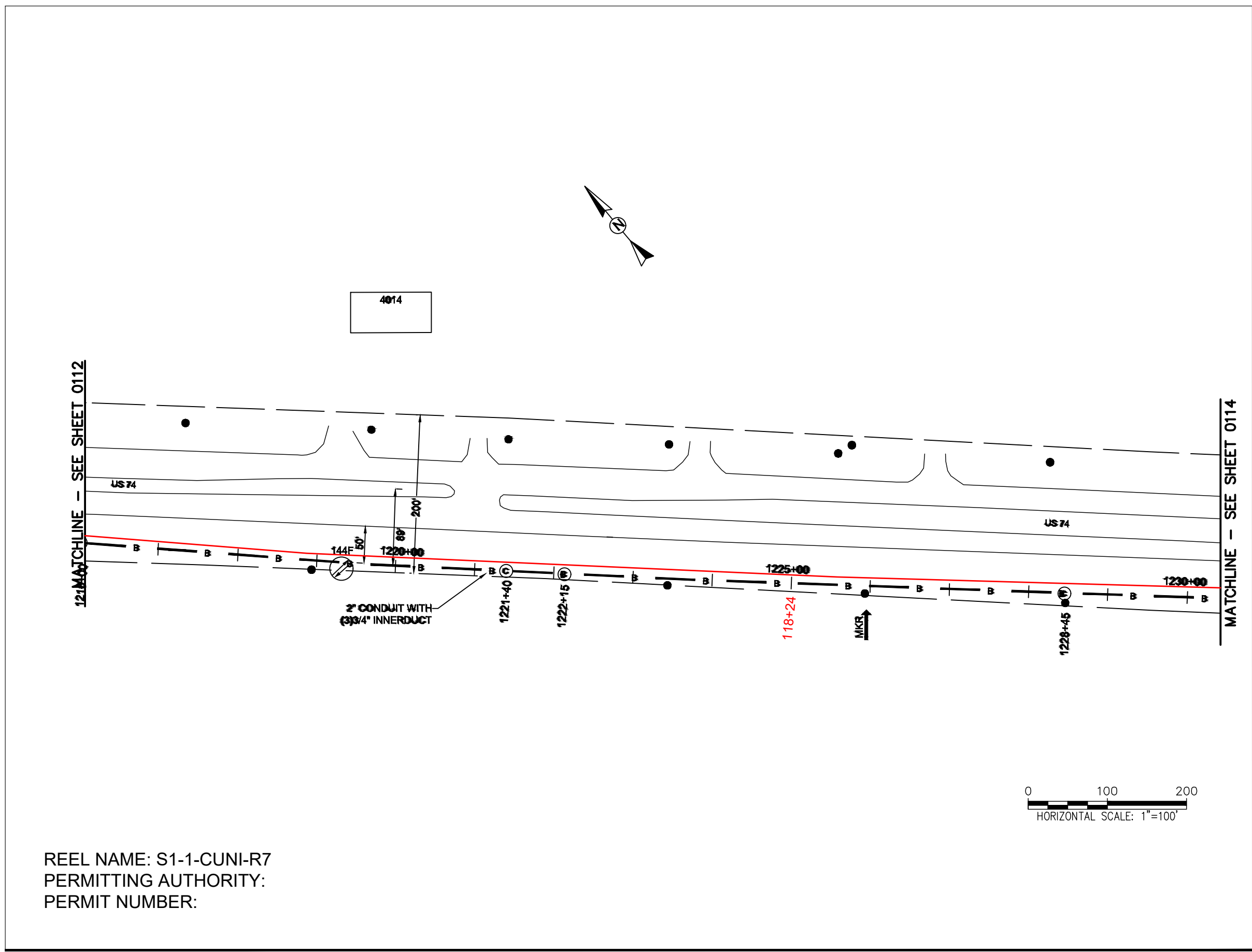
DESIGNER:
R.B.

DATE: 3/24/25

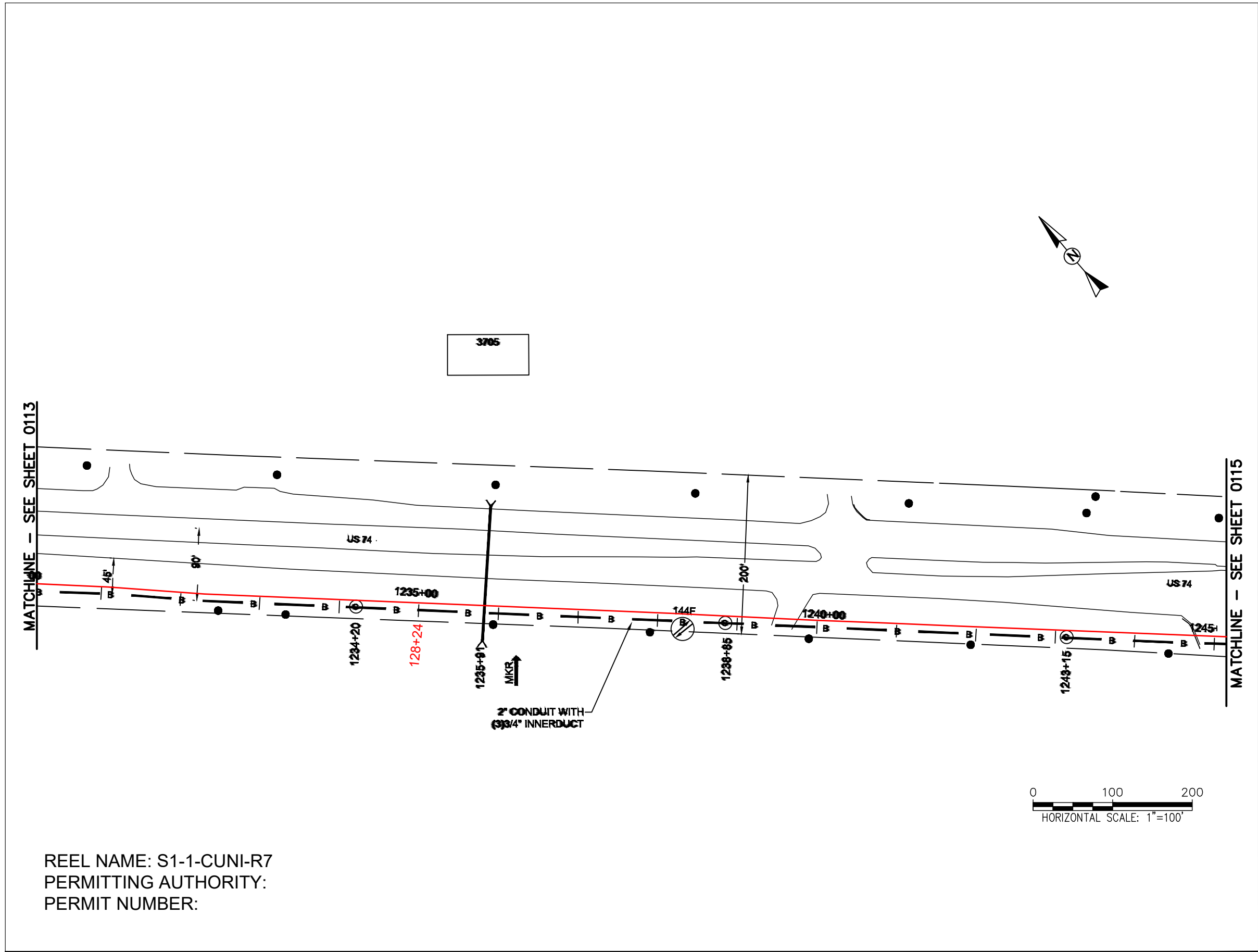


SCALE: NTS	SHEET NUMBER: 113 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

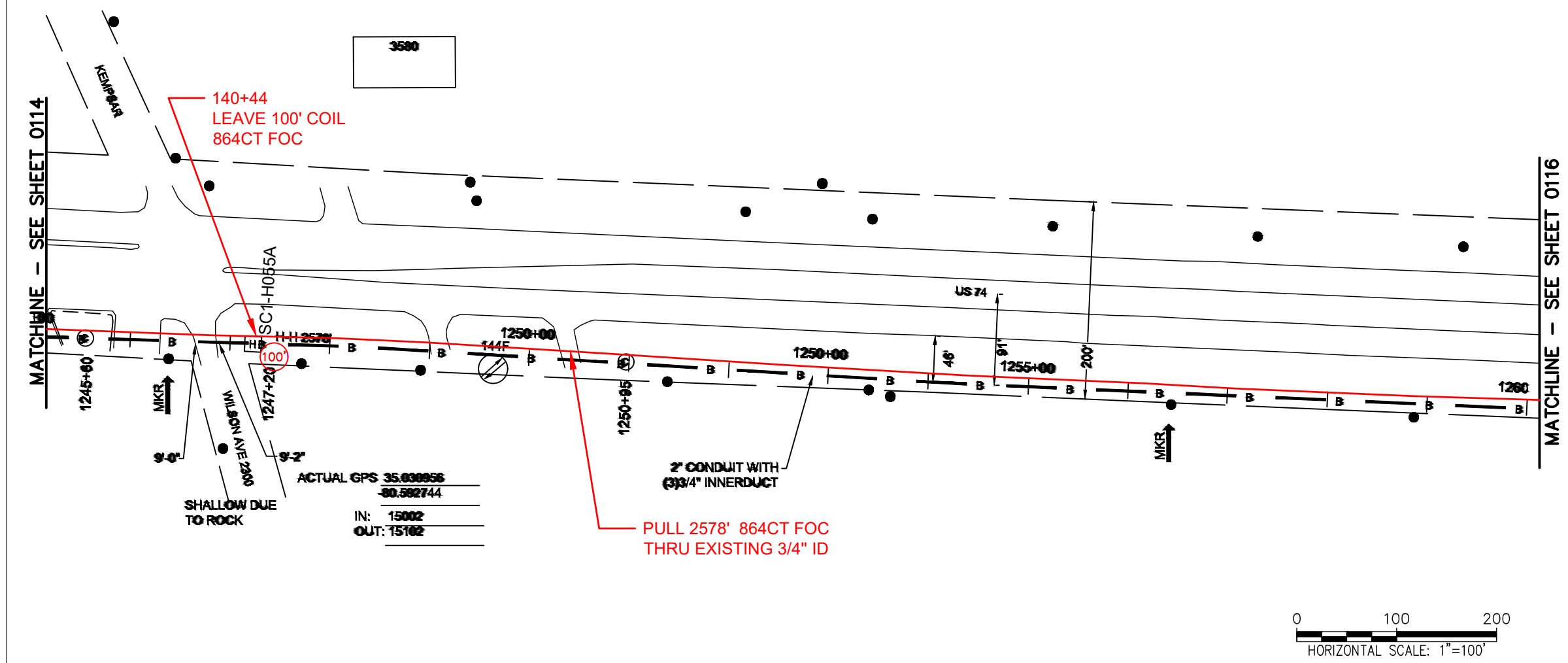
CONFIDENTIAL AND PROPRIETARY

MCNC®

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 114 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

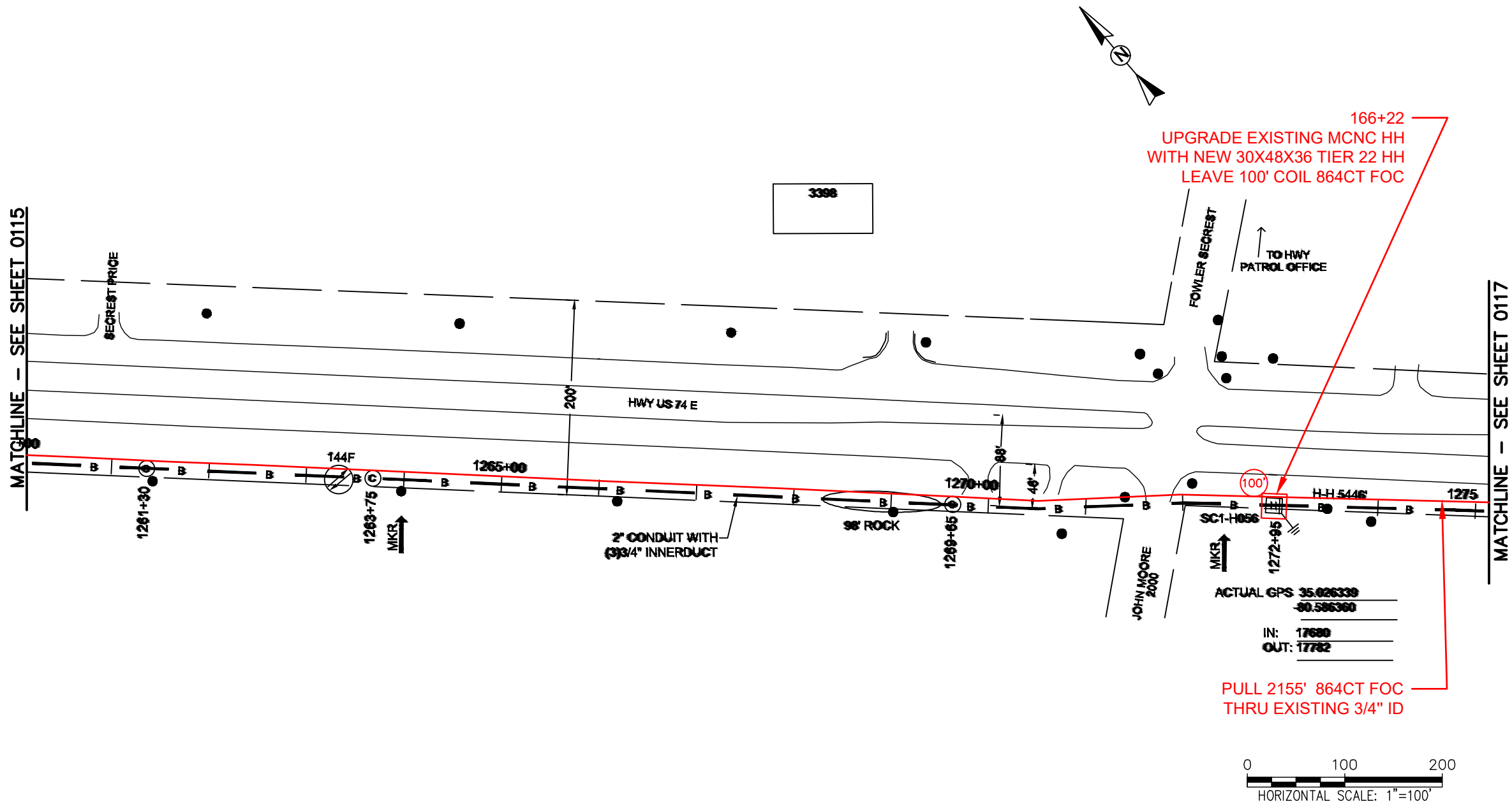
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 115 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

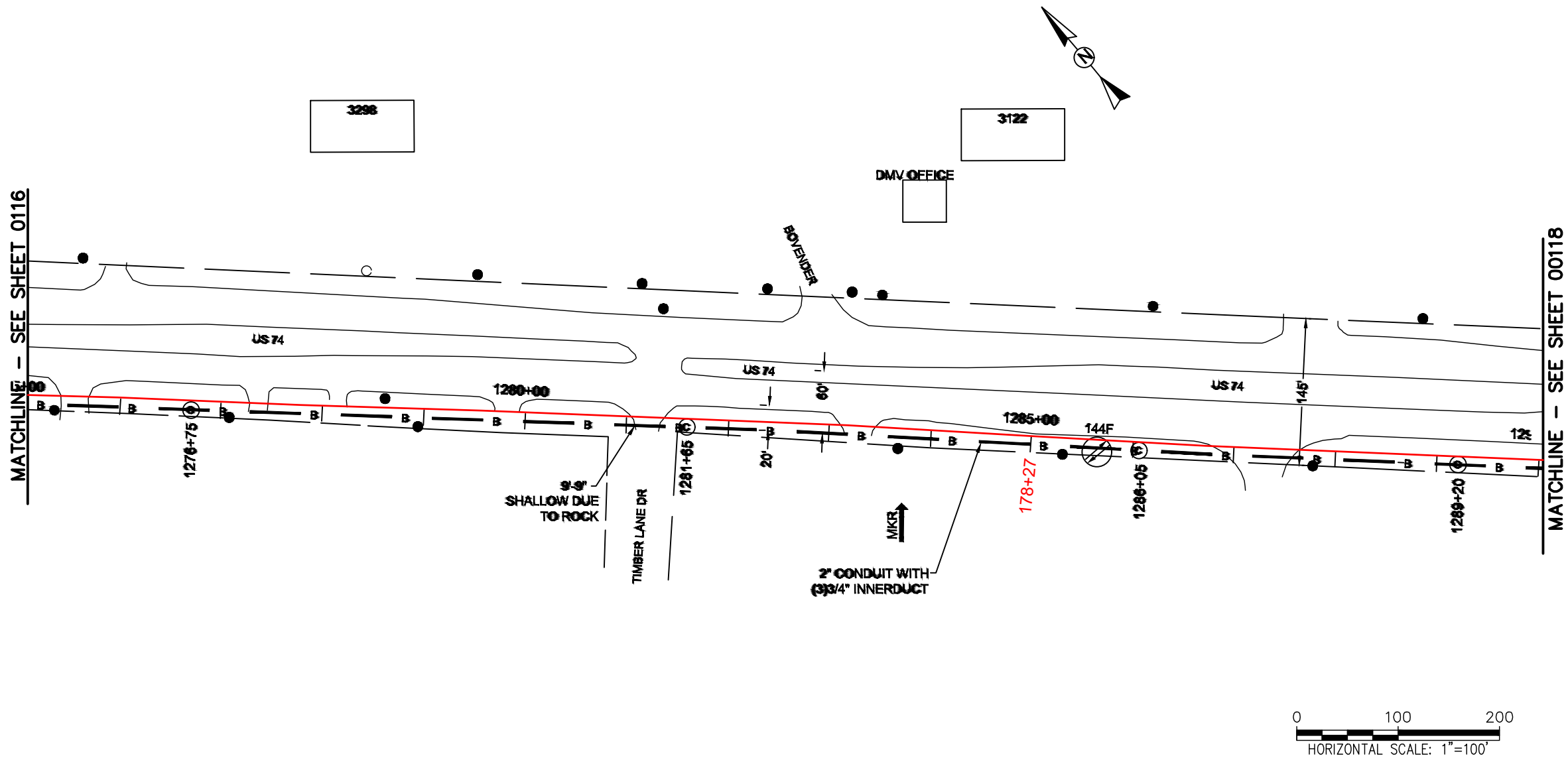
MCNC®

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

Know what's below.
Call before you dig.

SCALE: 1"=100'

SCALE: NTS	SHEET NUMBER: 116 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R7
PERMITTING AUTHORITY:
PERMIT NUMBER:



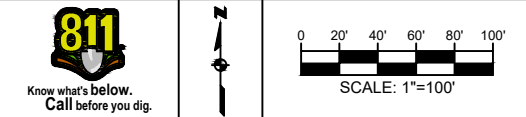
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

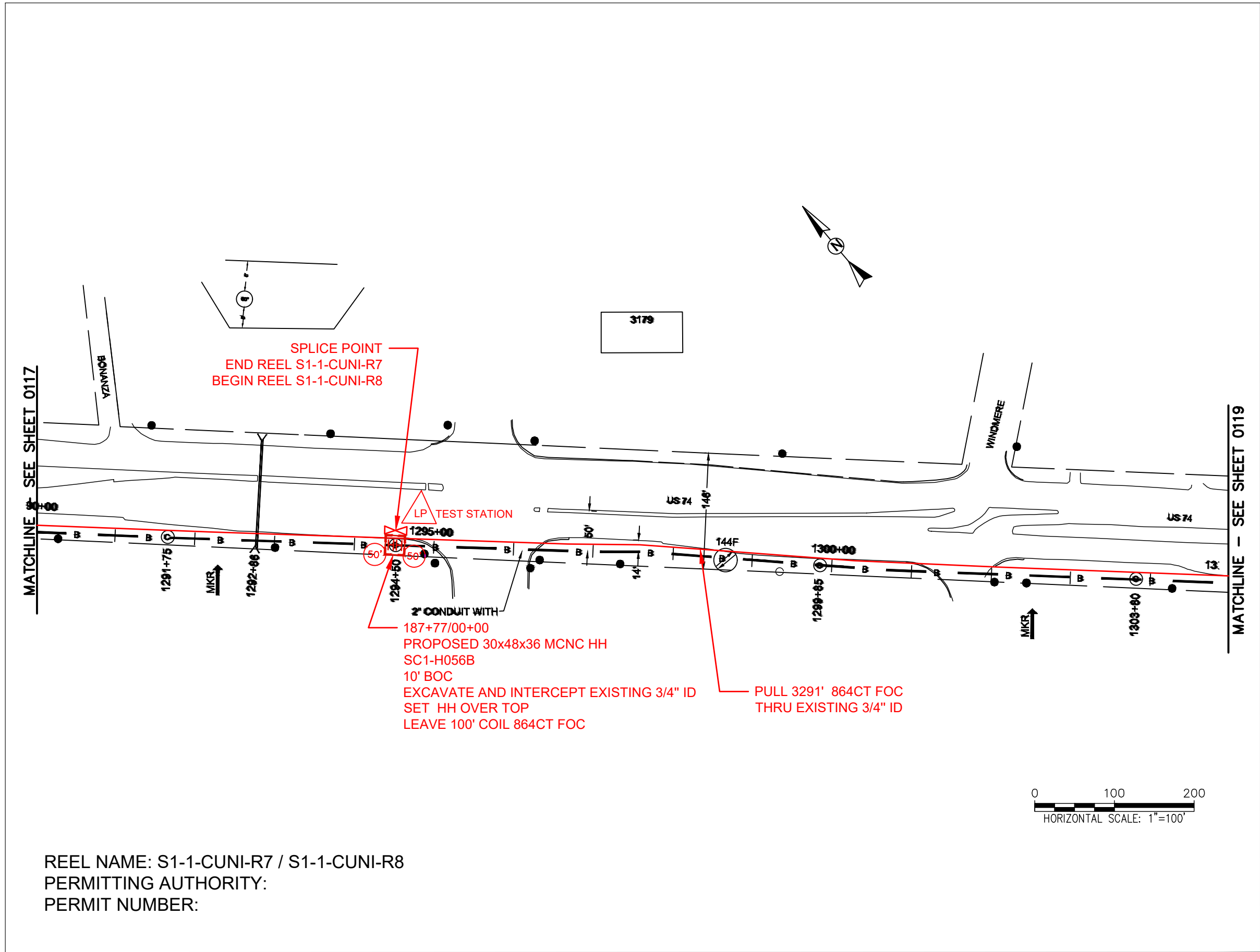


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 117 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

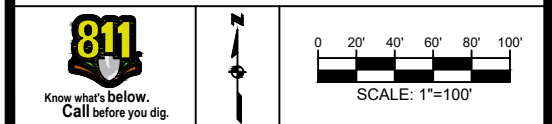
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

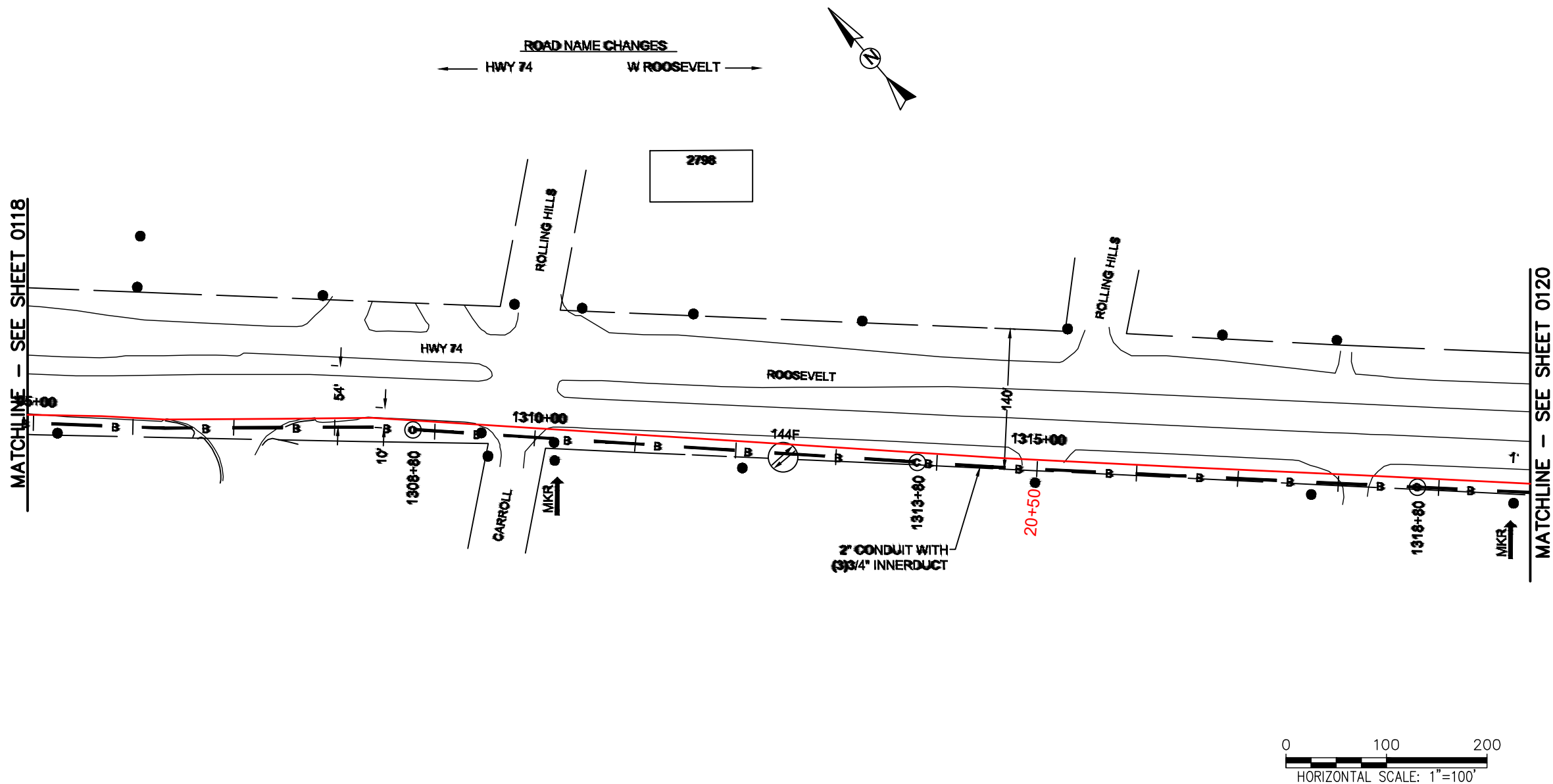


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 118
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



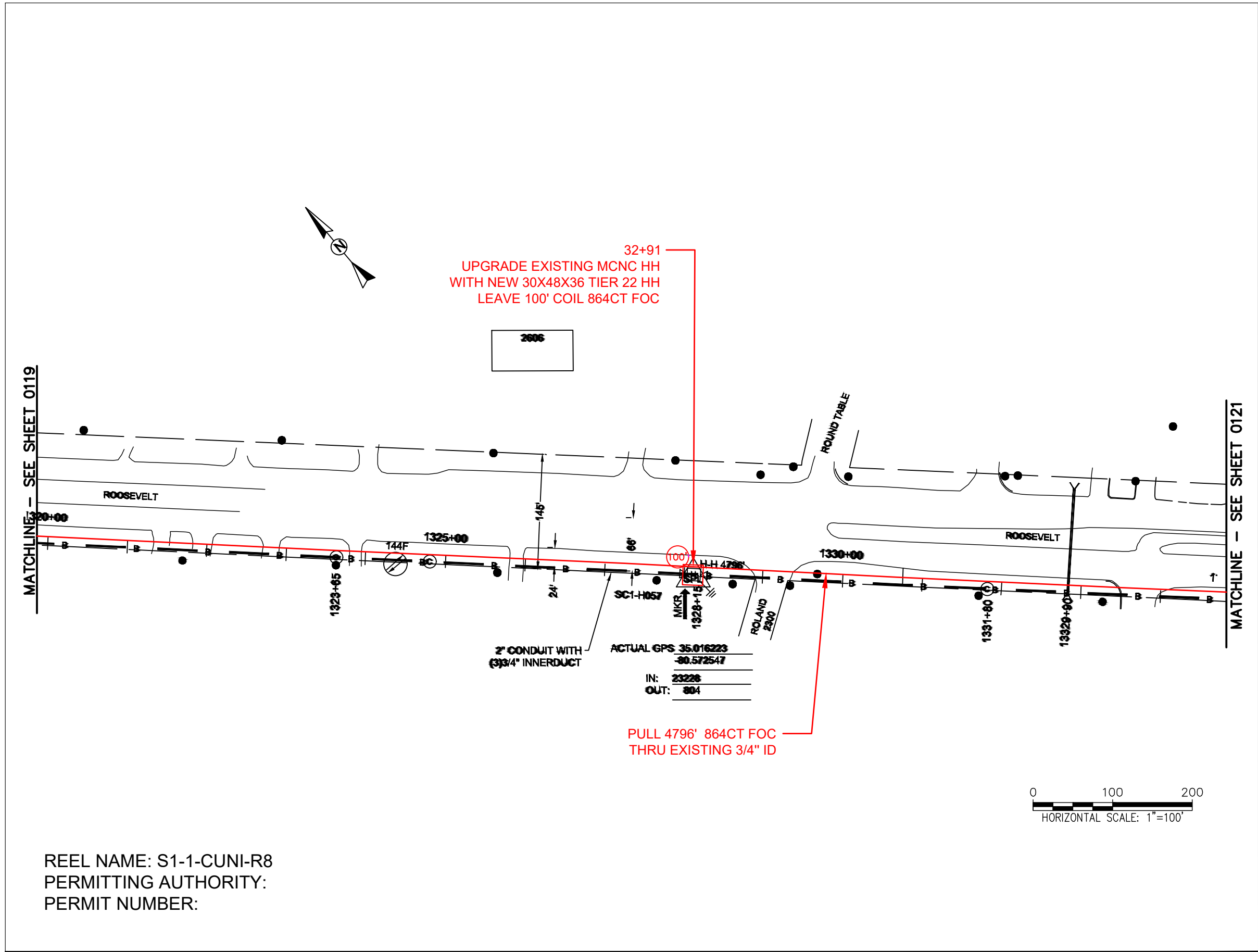
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
SCALE: NTS	SHEET NUMBER: 119 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



CONSTRUCTION NOTES:




PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

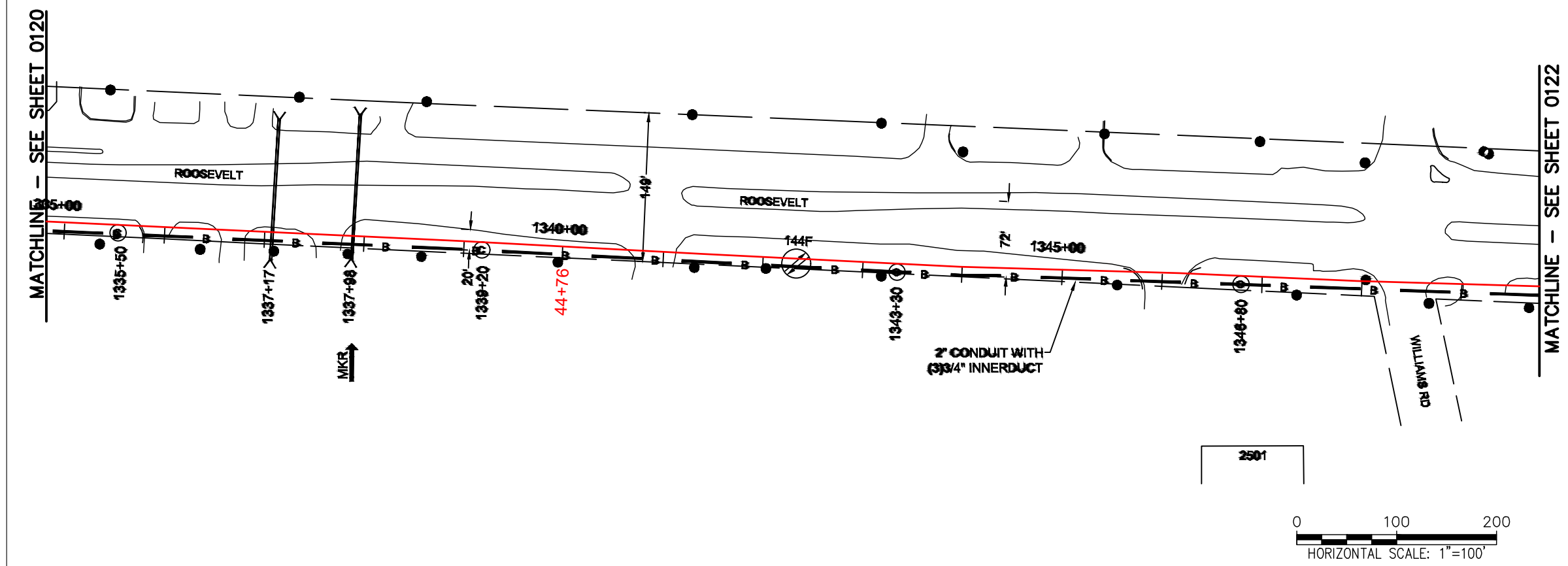
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE:	SHEET NUMBER:
NTS	120
PLOT DATE:	OF
3/24/25	220



REEL NAME: S1-1-CUNI-R8
 PERMITTING AUTHORITY:
 PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

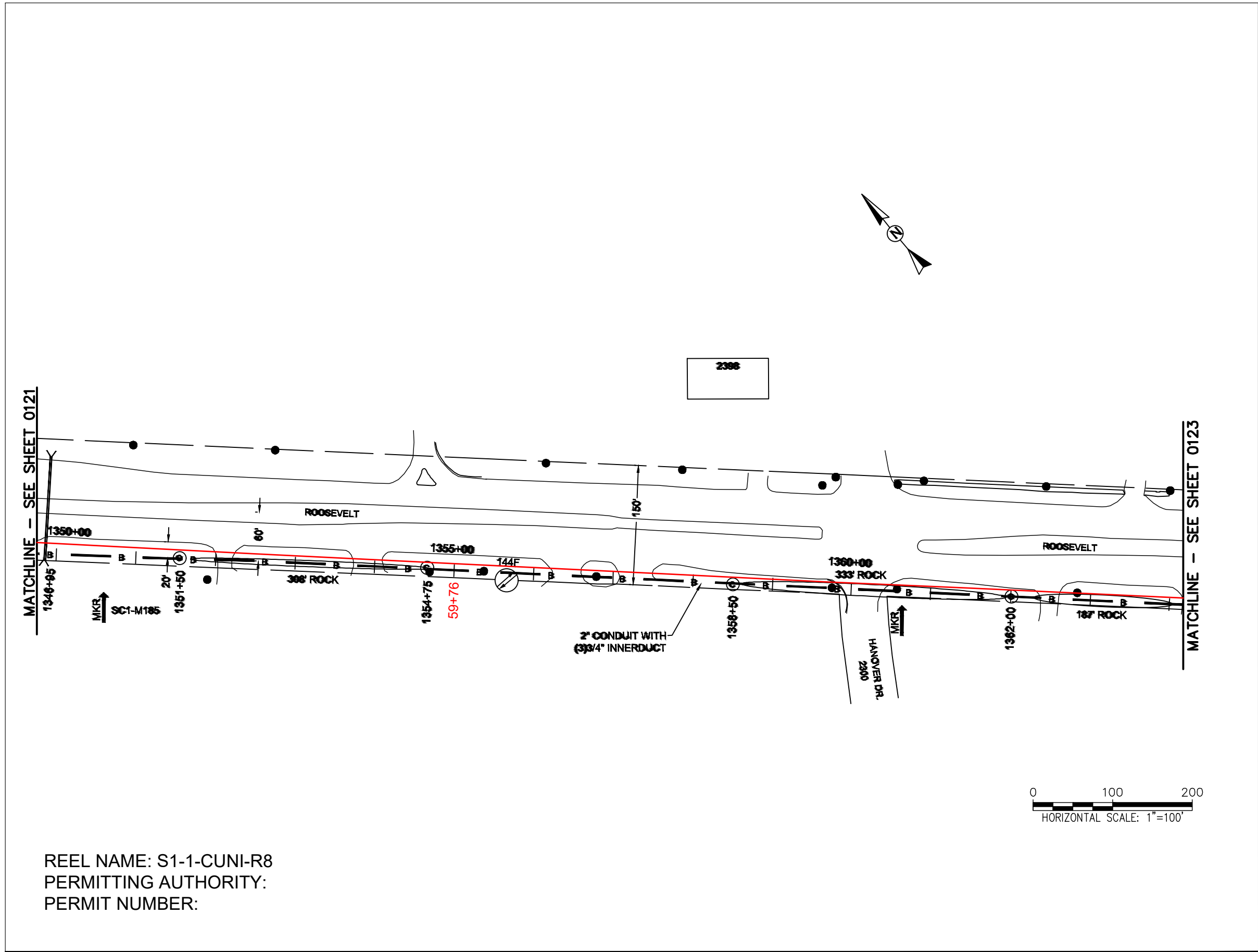
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	

SCALE: NTS	SHEET NUMBER: 121 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

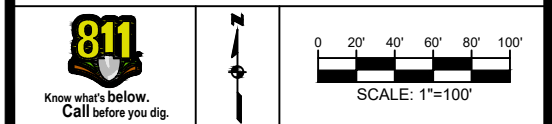
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

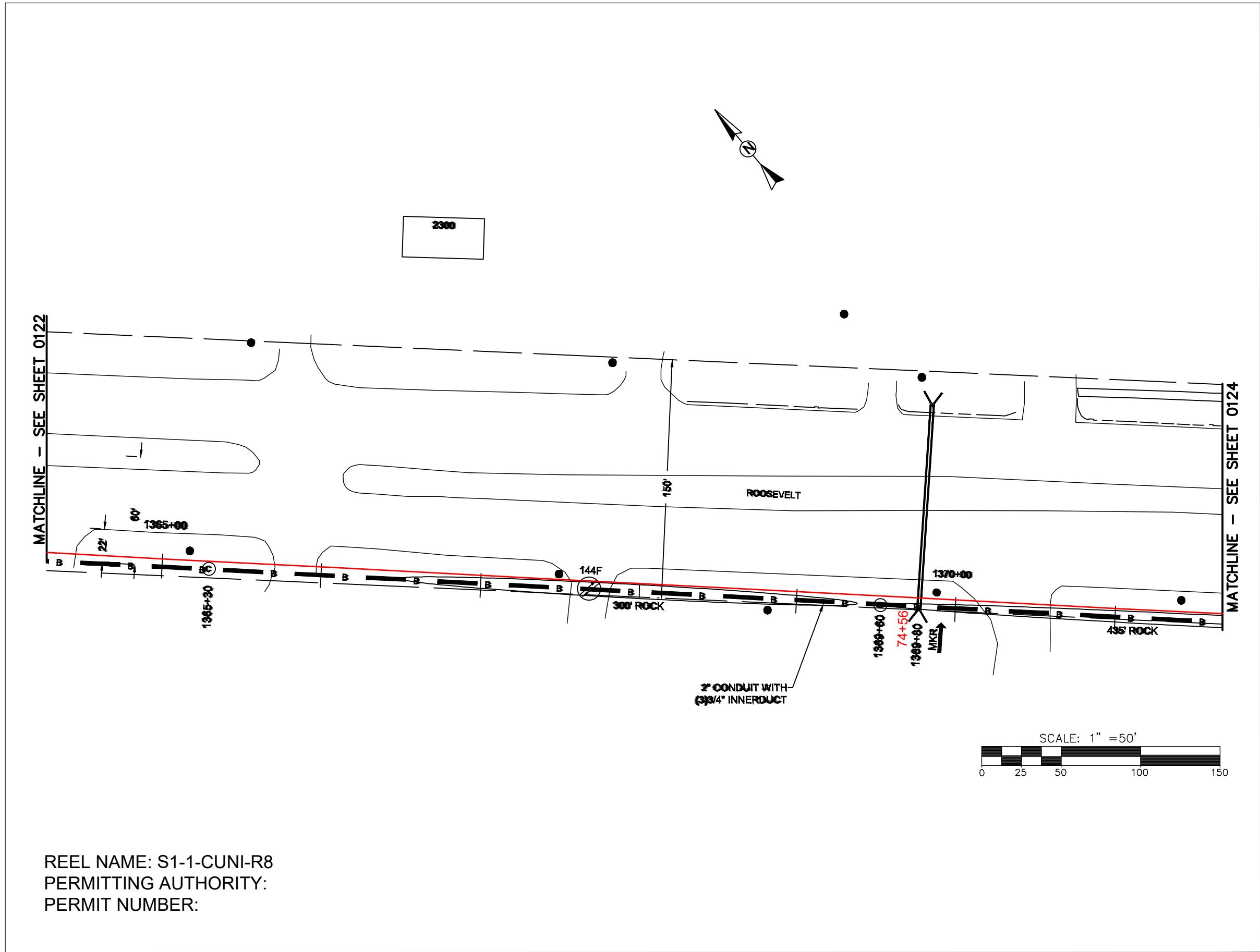


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 122 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

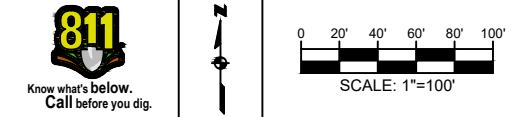
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

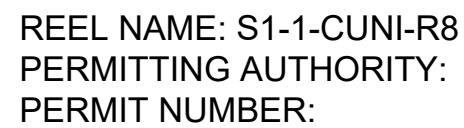


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



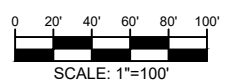
SCALE: NTS	SHEET NUMBER: 123 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



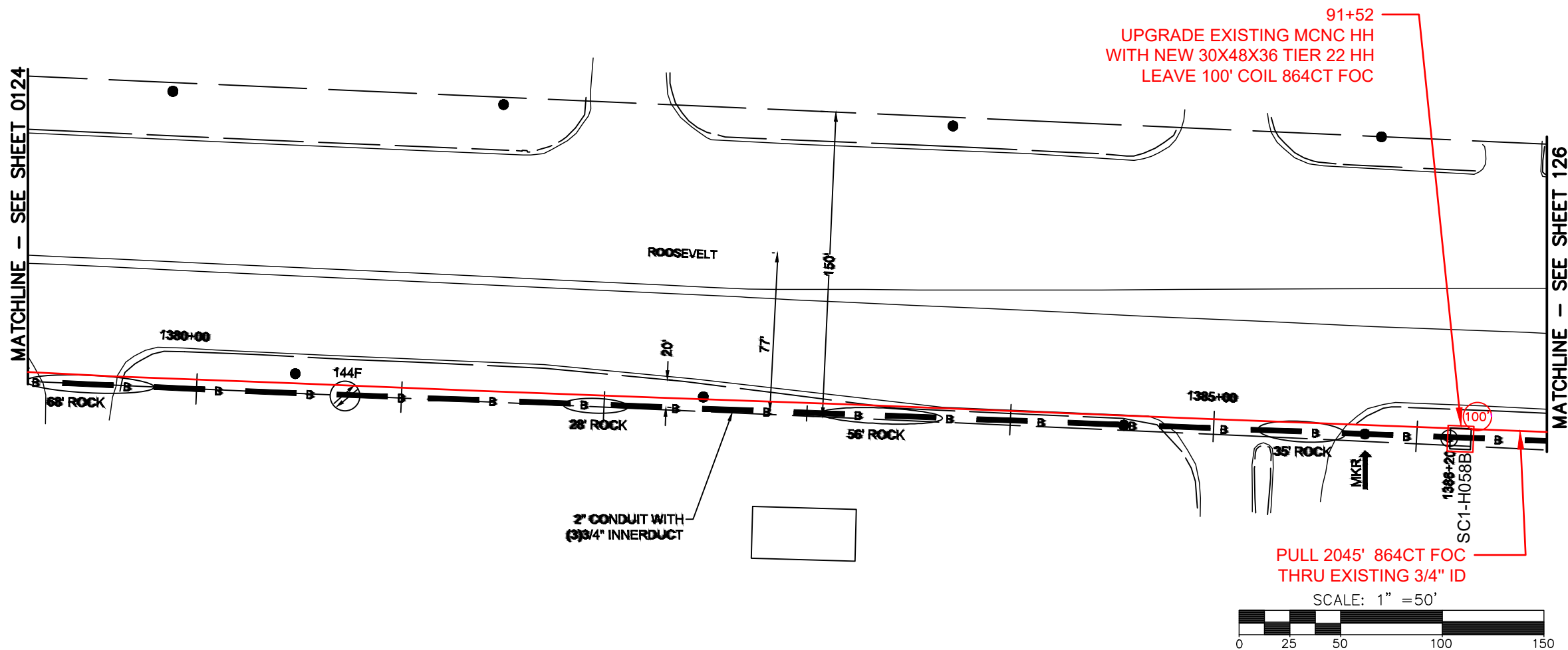
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:

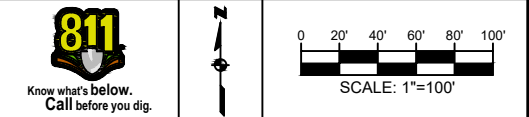
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

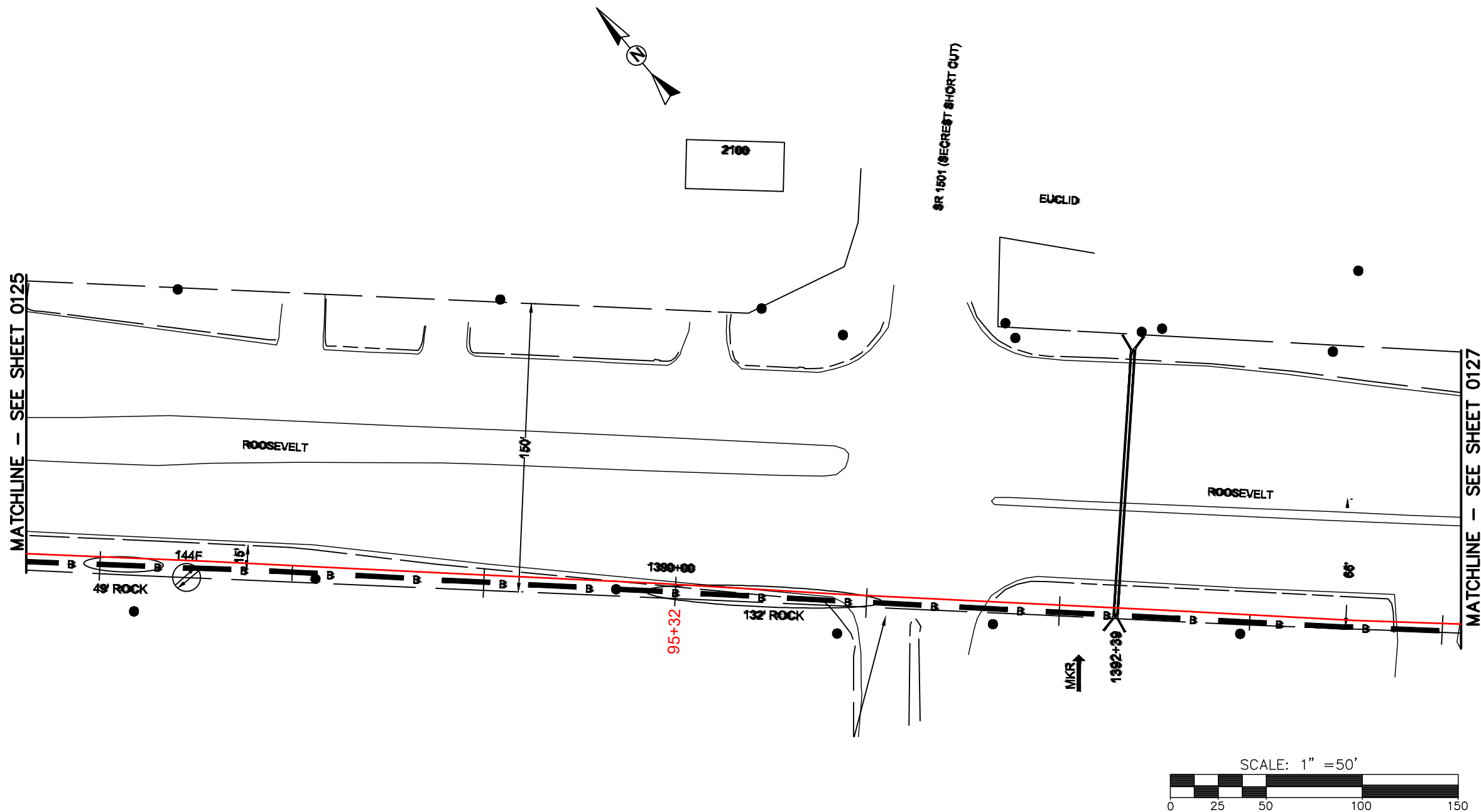
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 125 OF 220



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



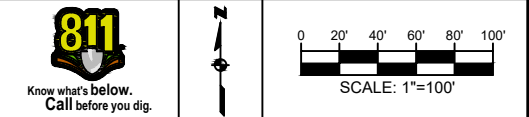
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

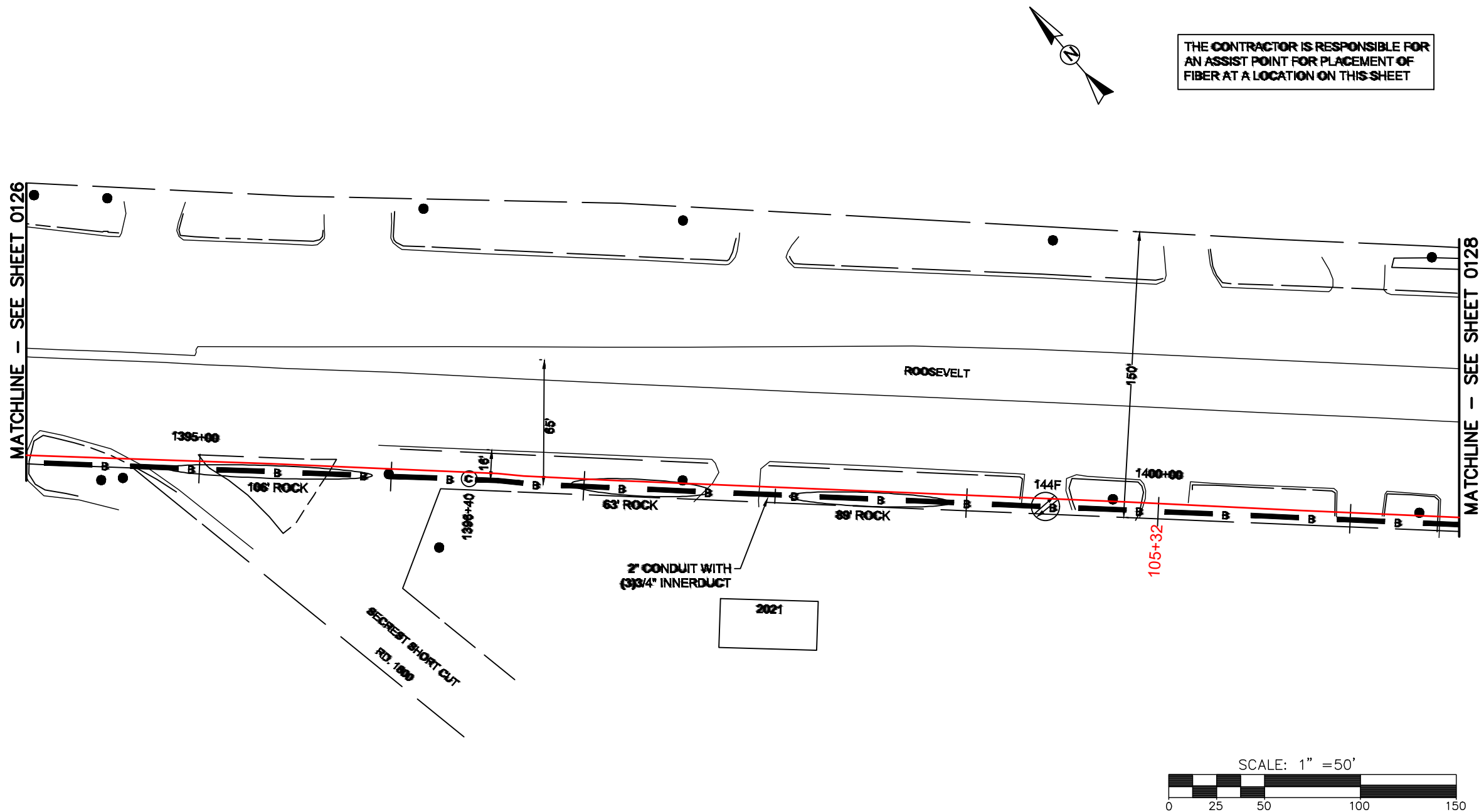


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 126 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

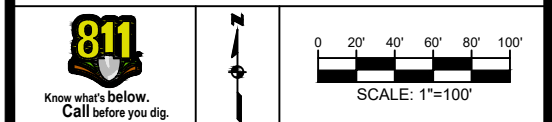
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

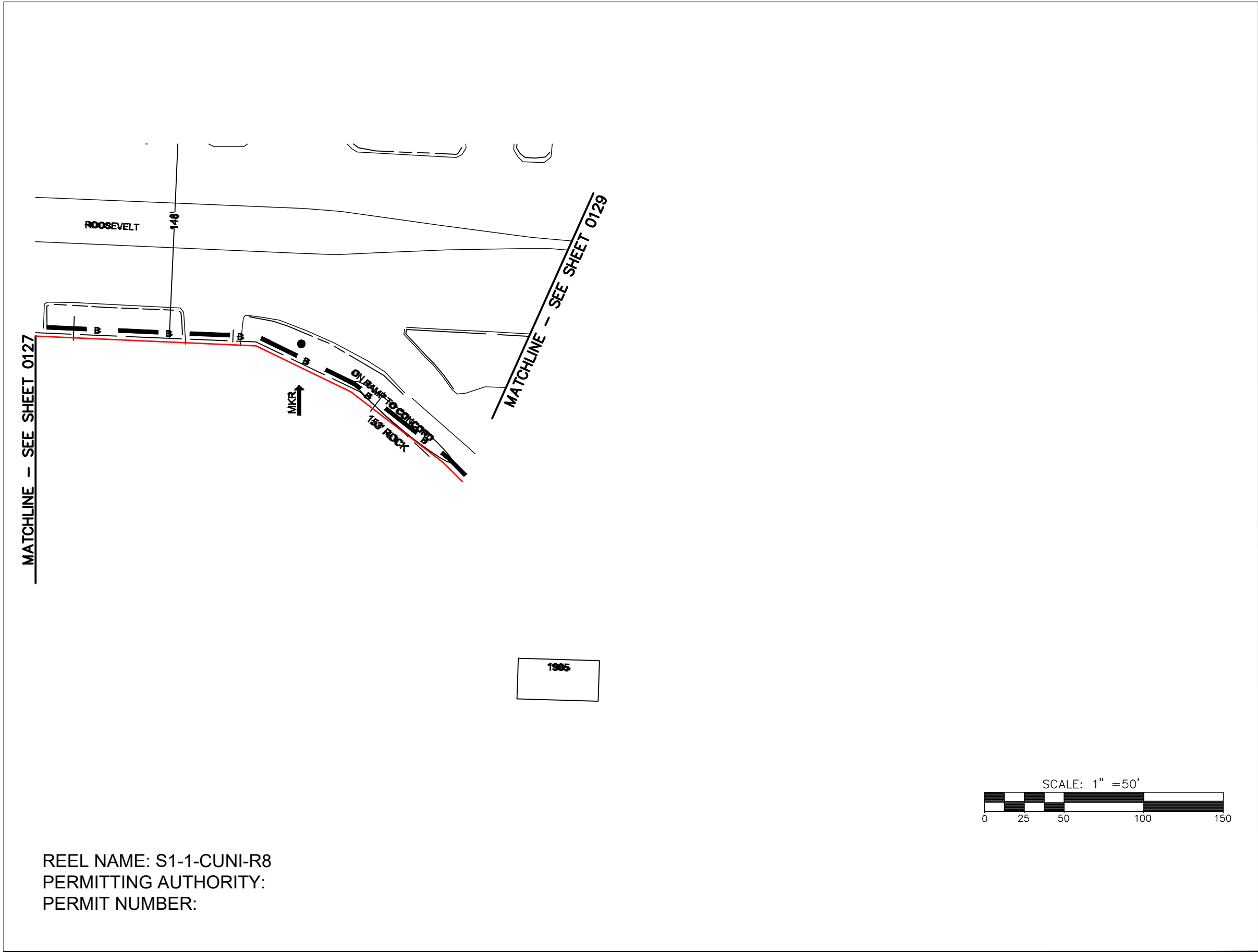


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 127 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

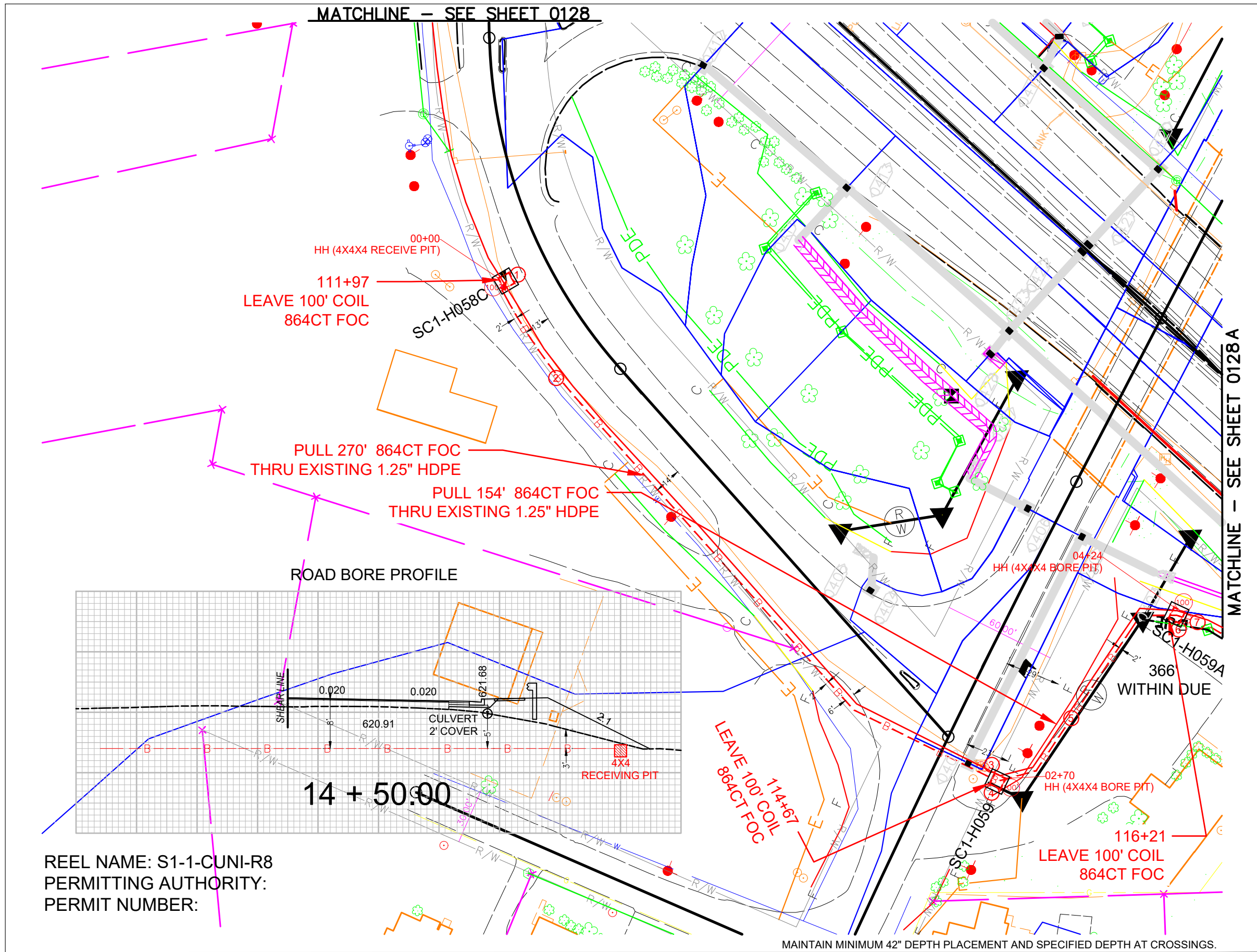
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 128 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

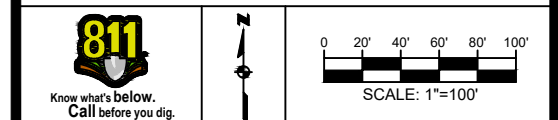
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



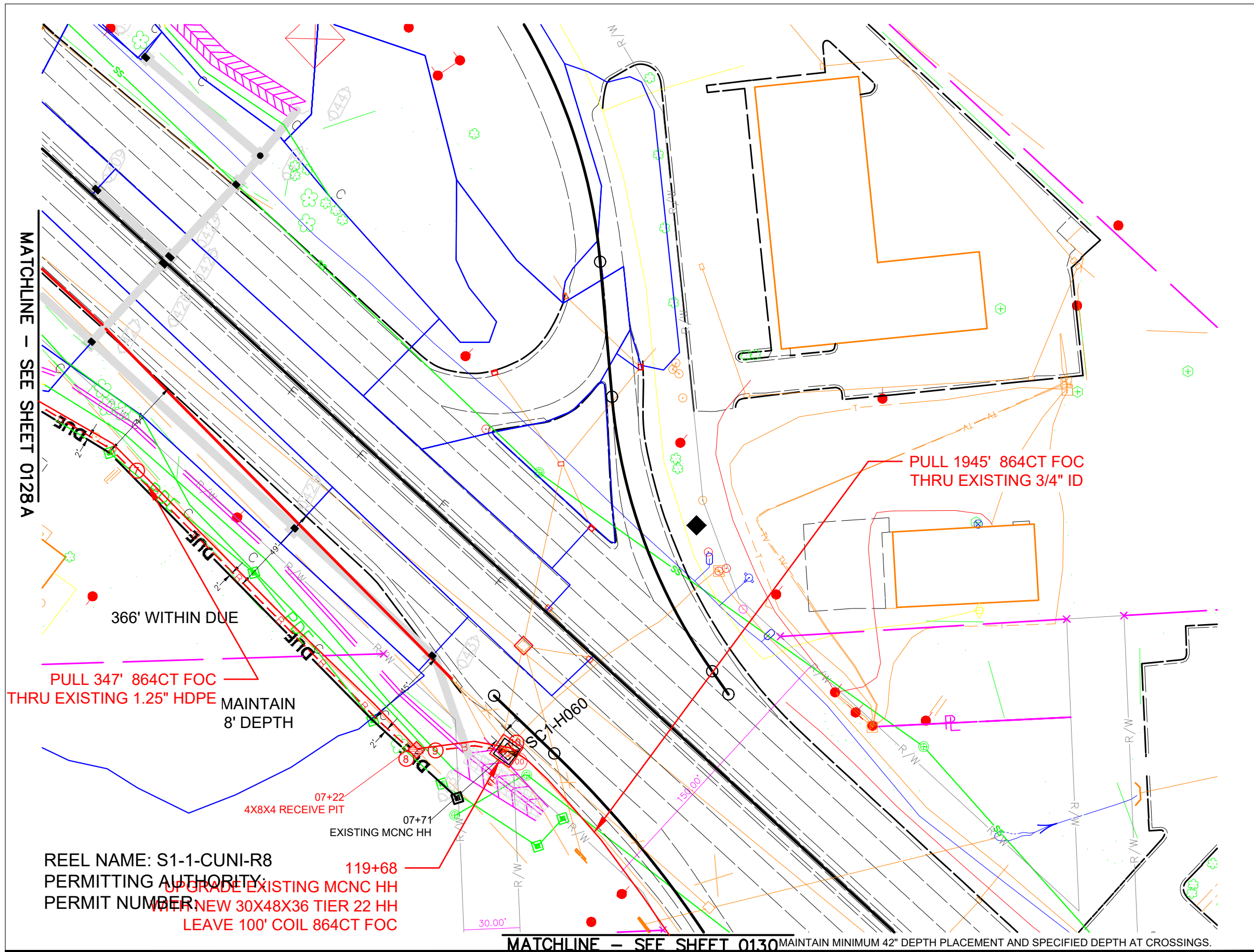
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 128-A
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

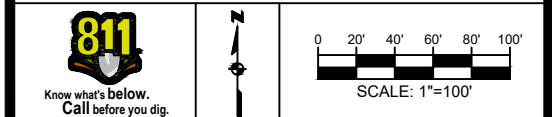
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



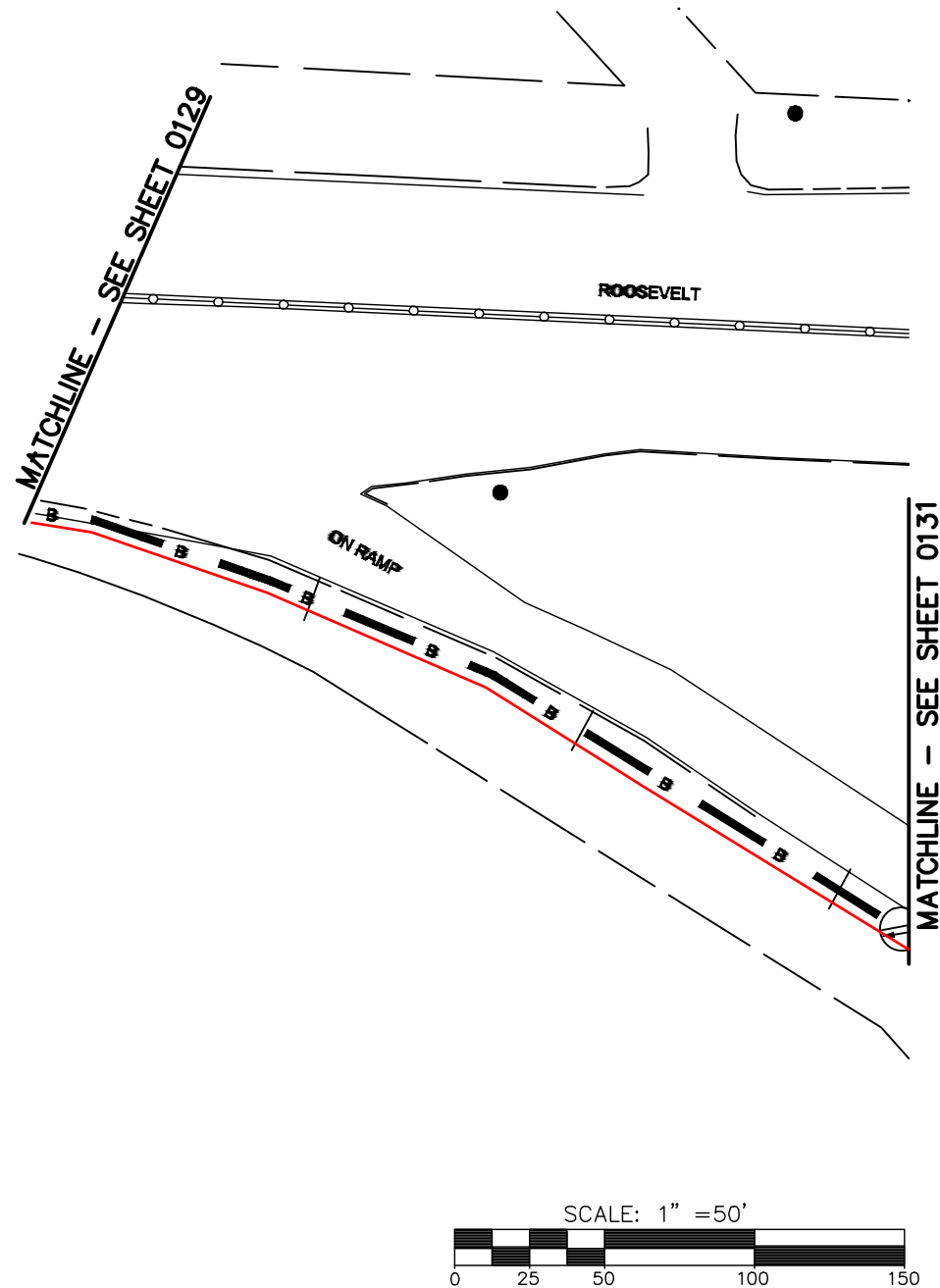
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 129 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



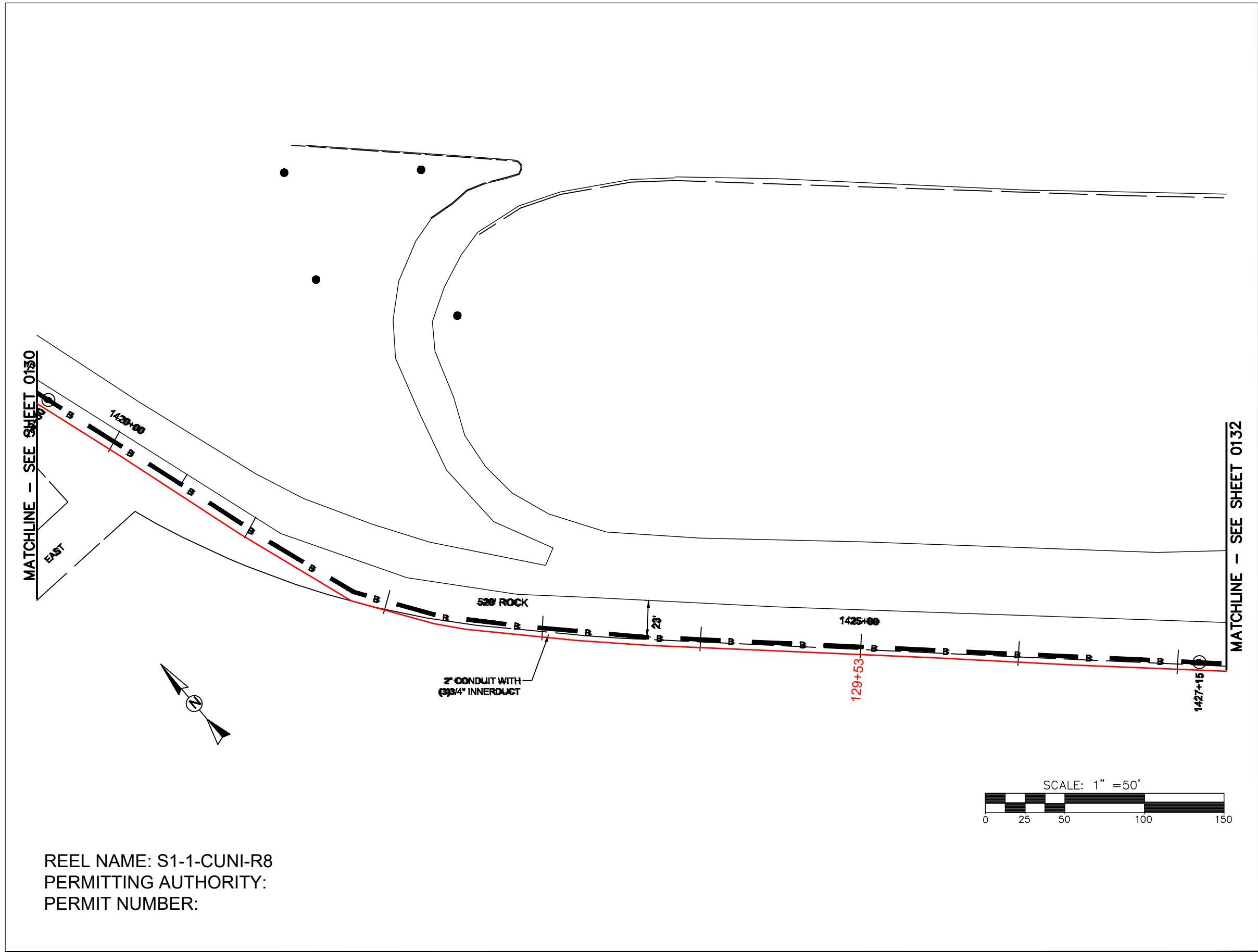
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
SCALE: NTS	SHEET NUMBER: 130 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



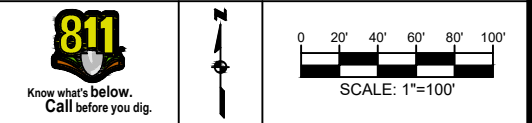
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

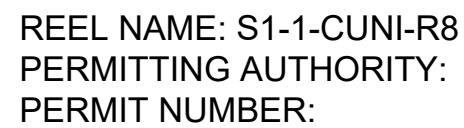


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 131 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



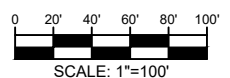
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

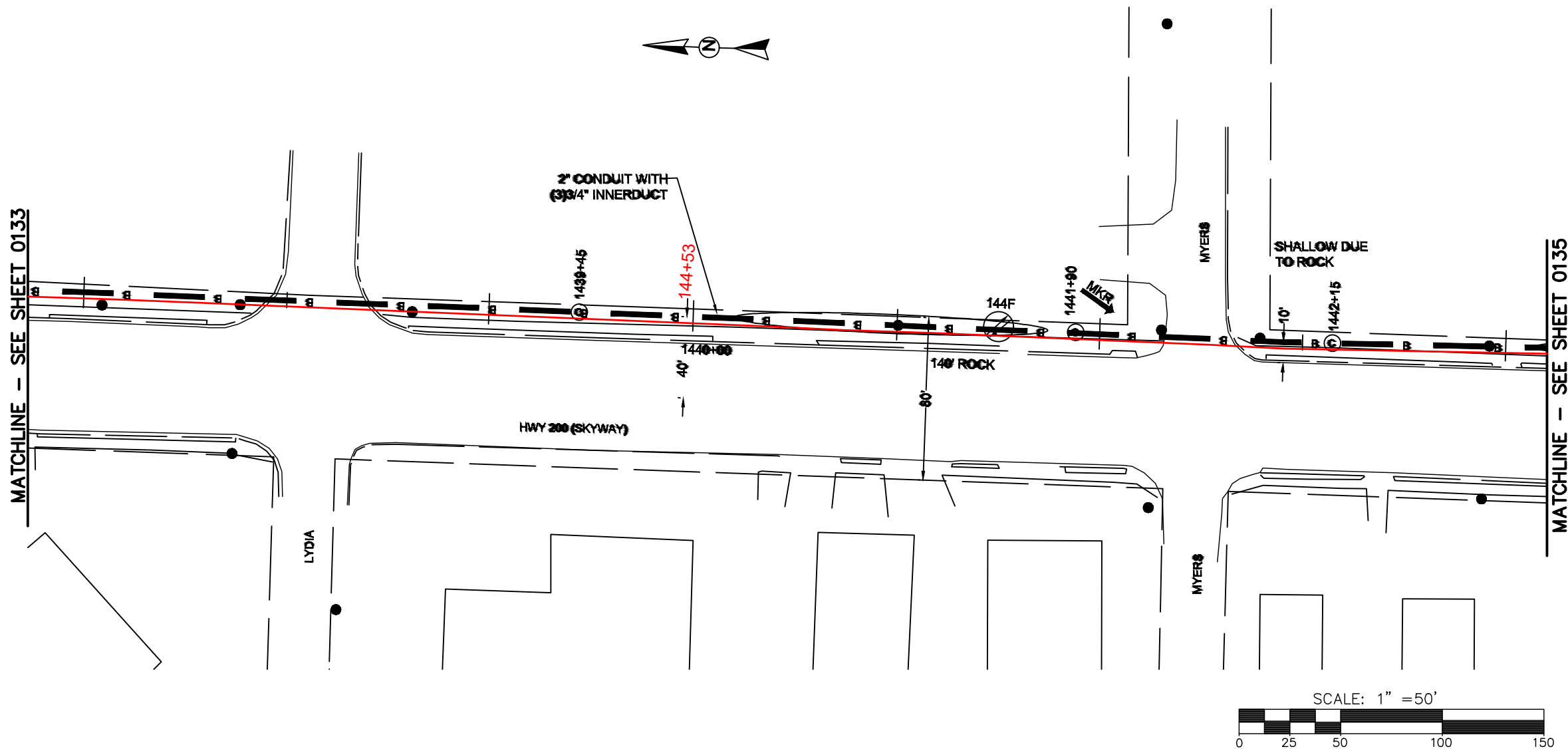
SHEET NUMBER:

133

OF

220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



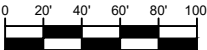


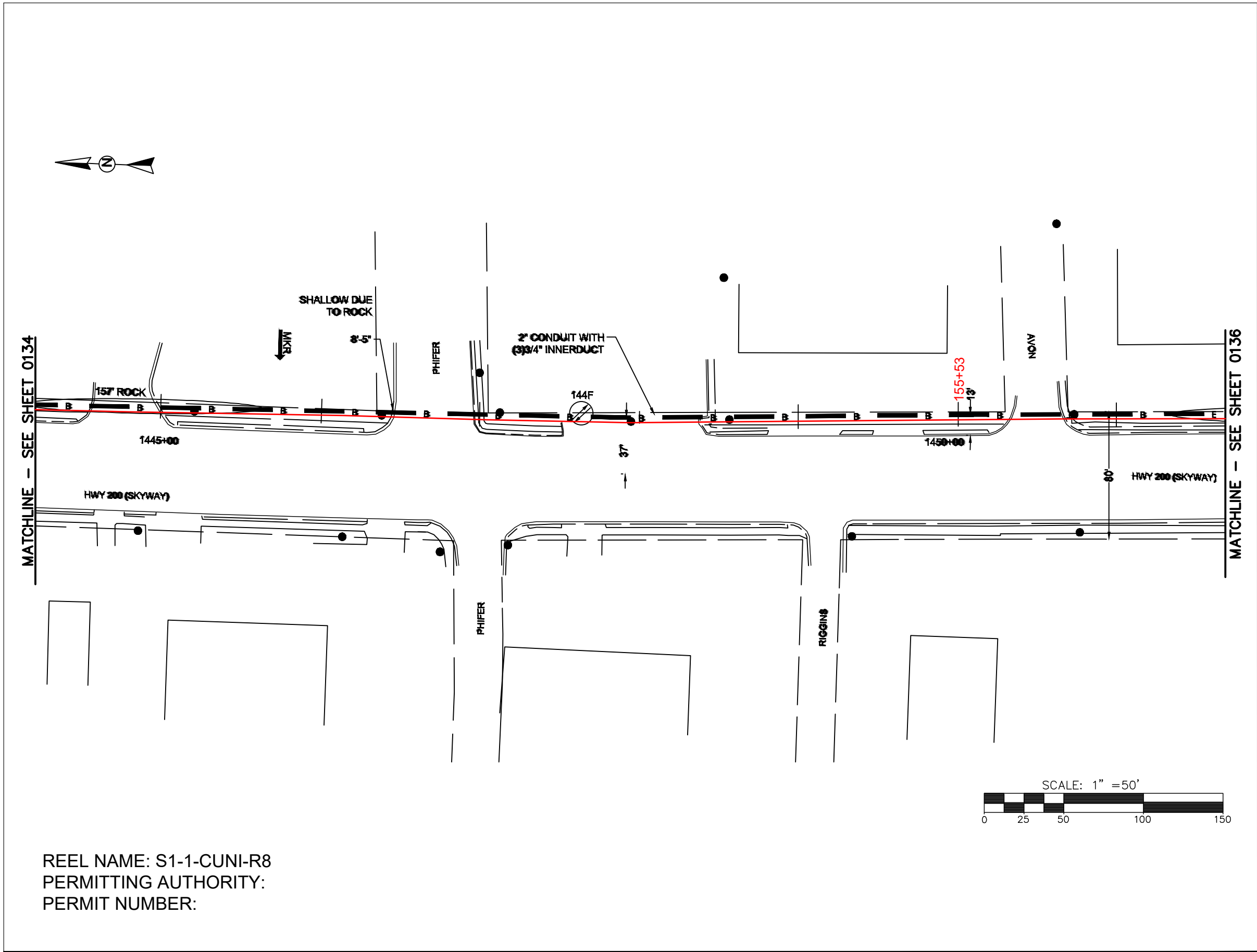
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
		 SCALE: 1"=100'
SCALE: NTS		SHEET NUMBER: 134 OF 220
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

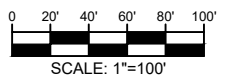
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE:

NTS

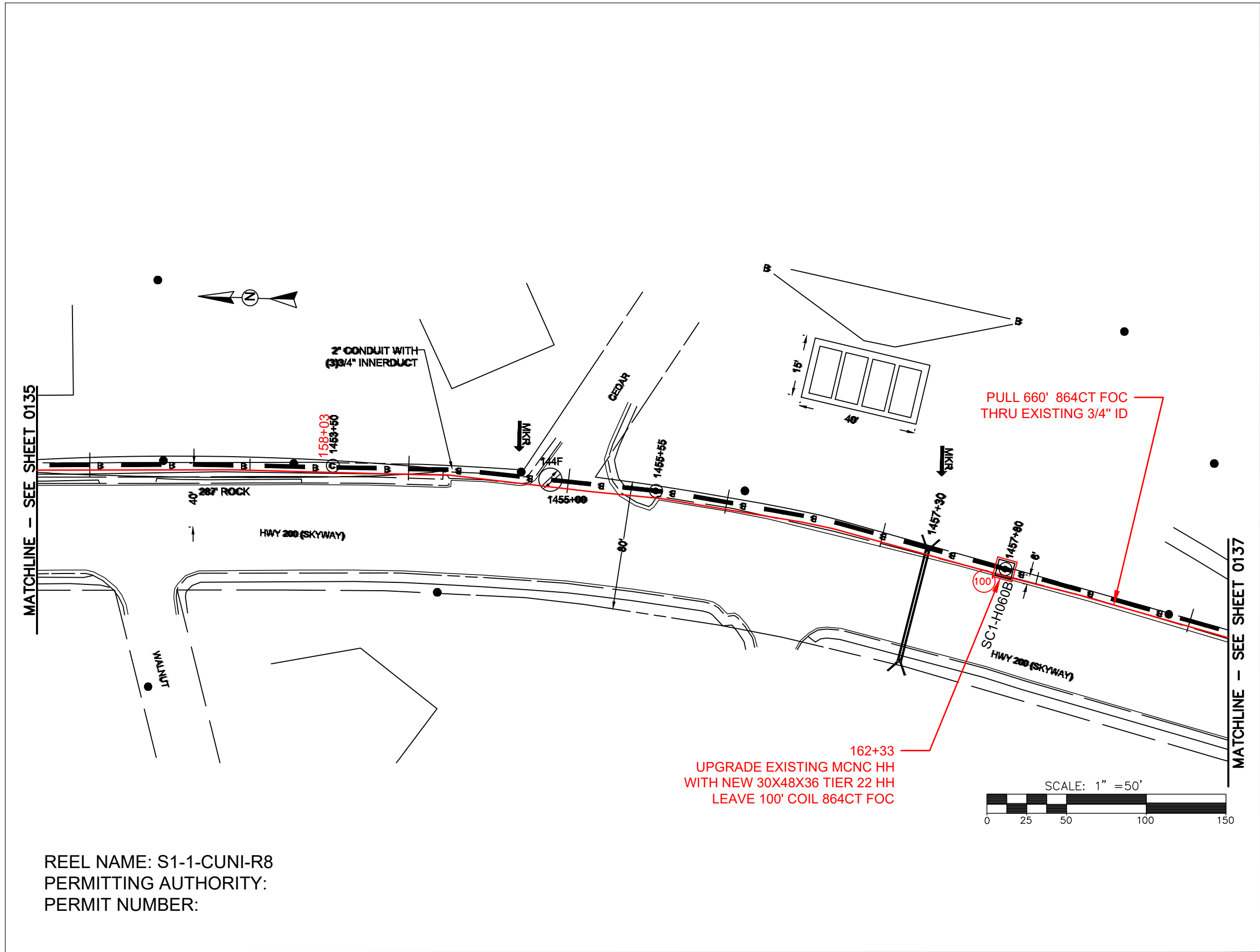
PLOT DATE:

3/24/25

SHEET NUMBER:

135
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



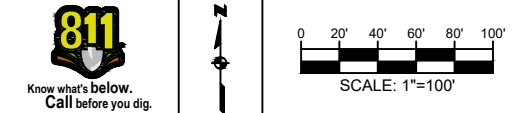
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

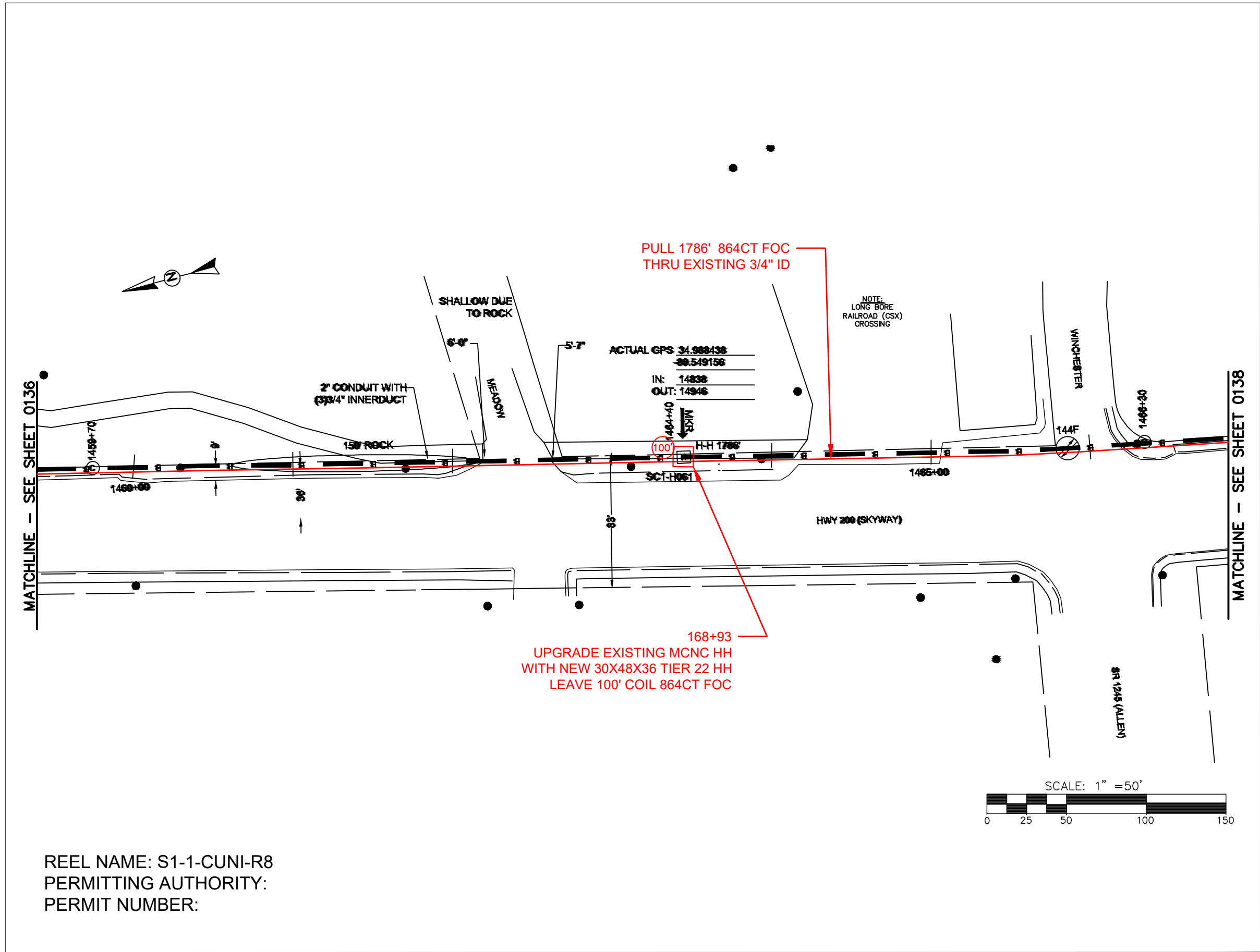


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 136 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

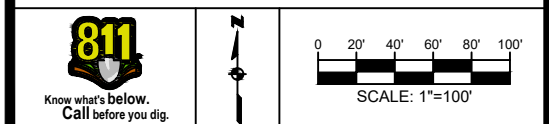
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

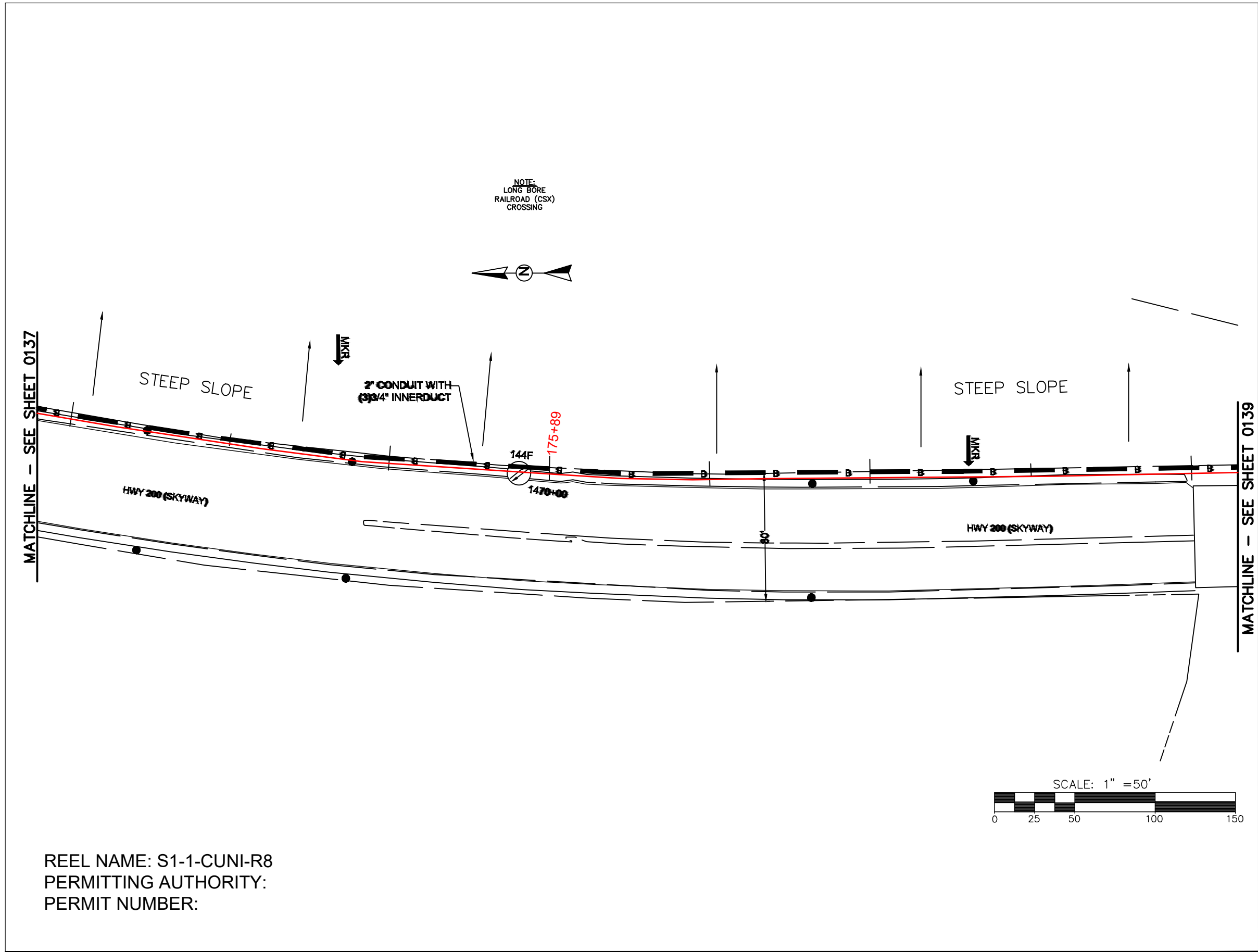


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 137 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R8
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

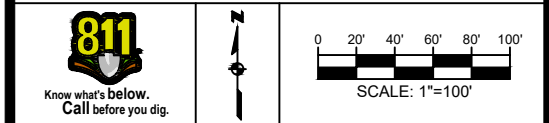
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

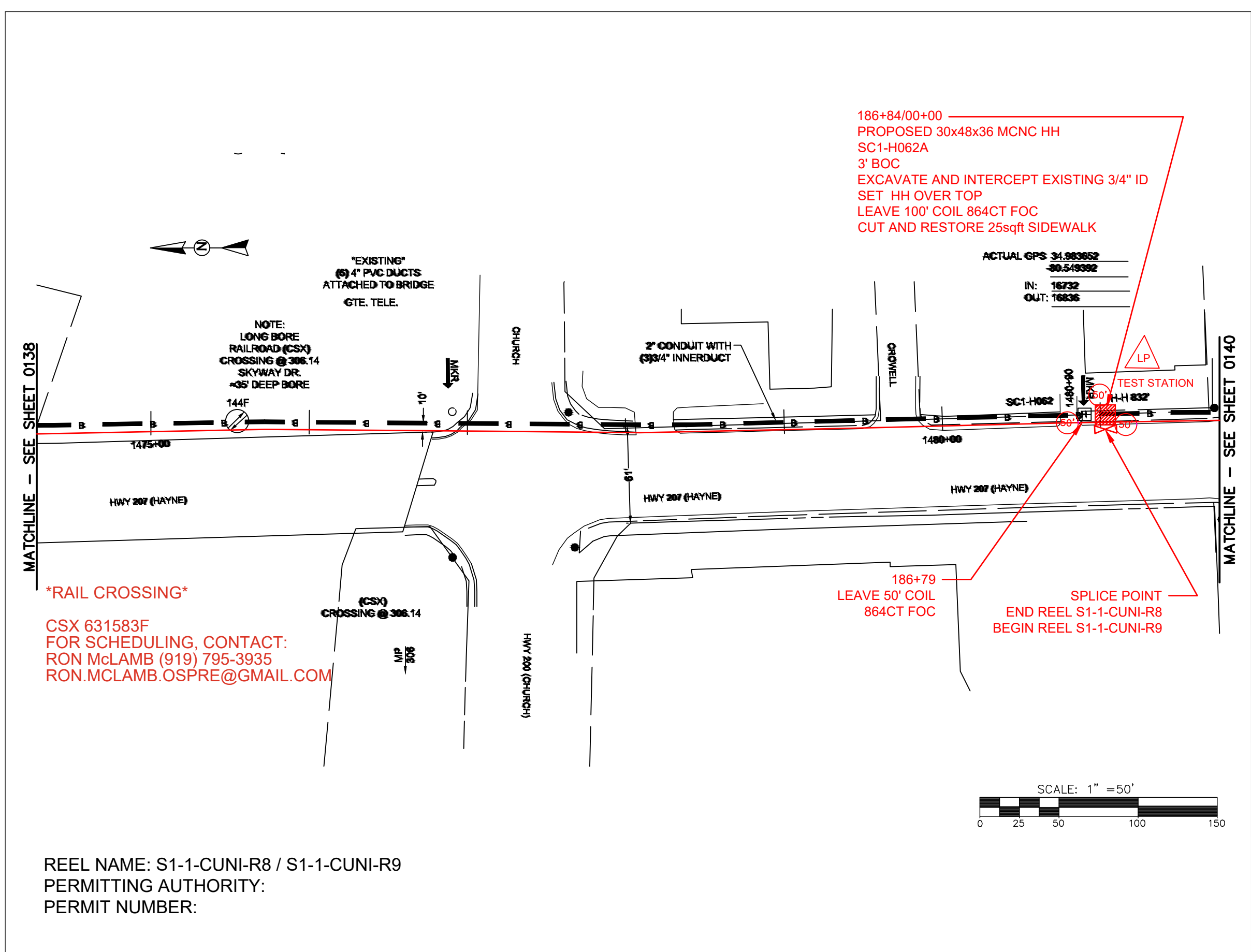


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 138 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

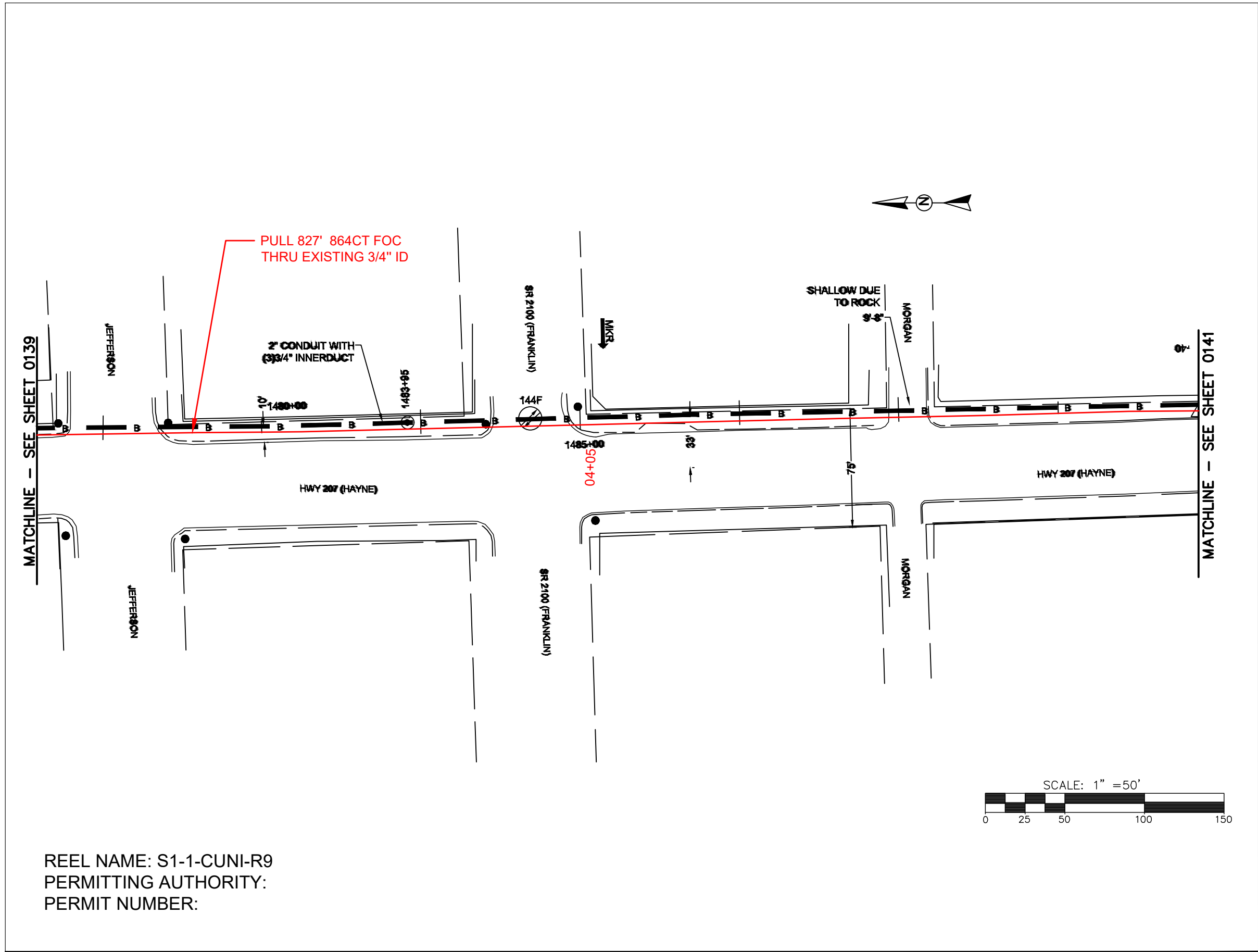
JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 139 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

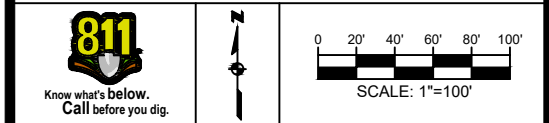
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

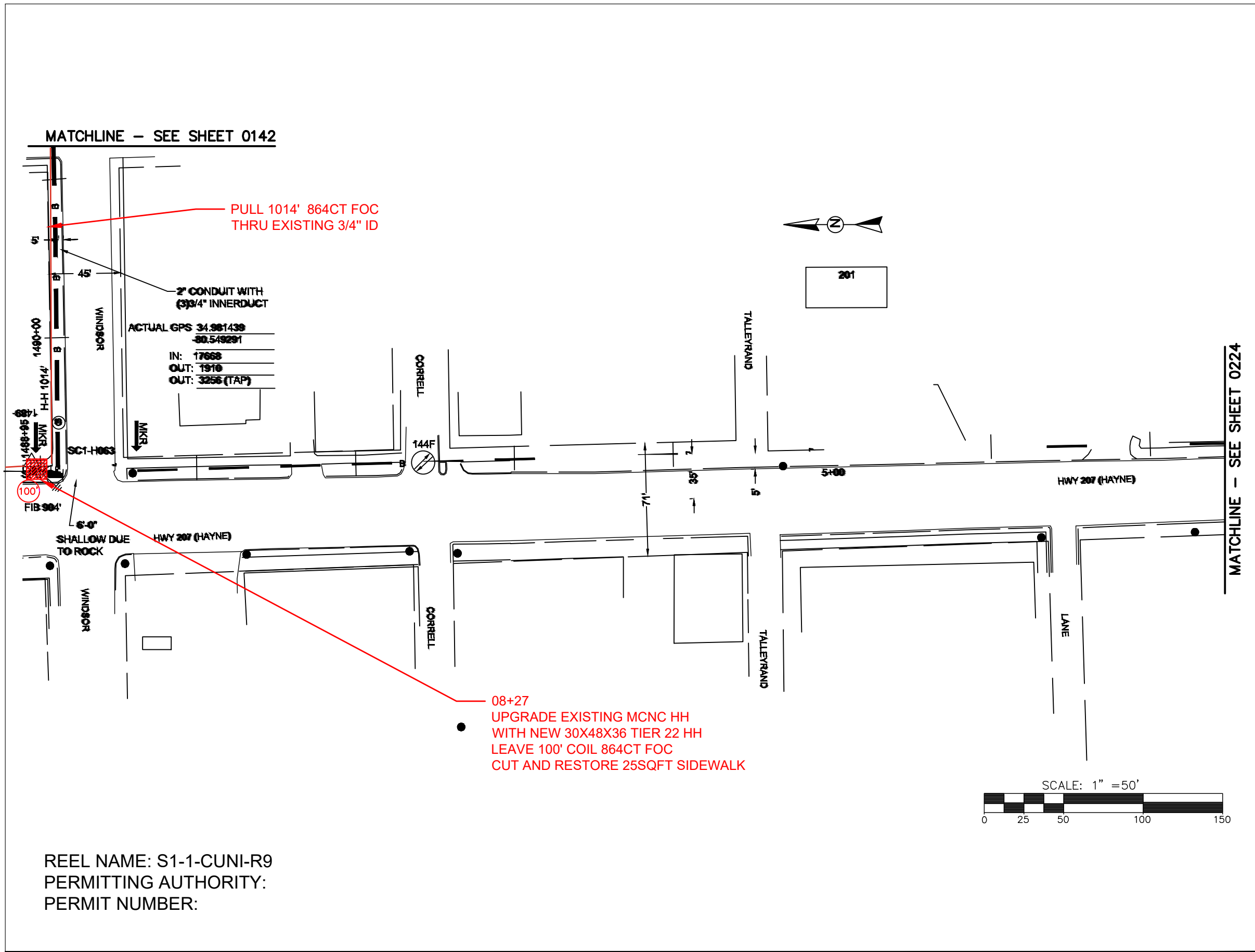


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 140 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

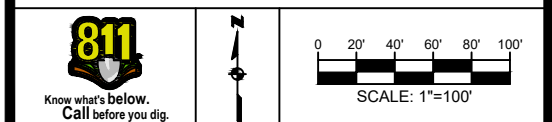
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

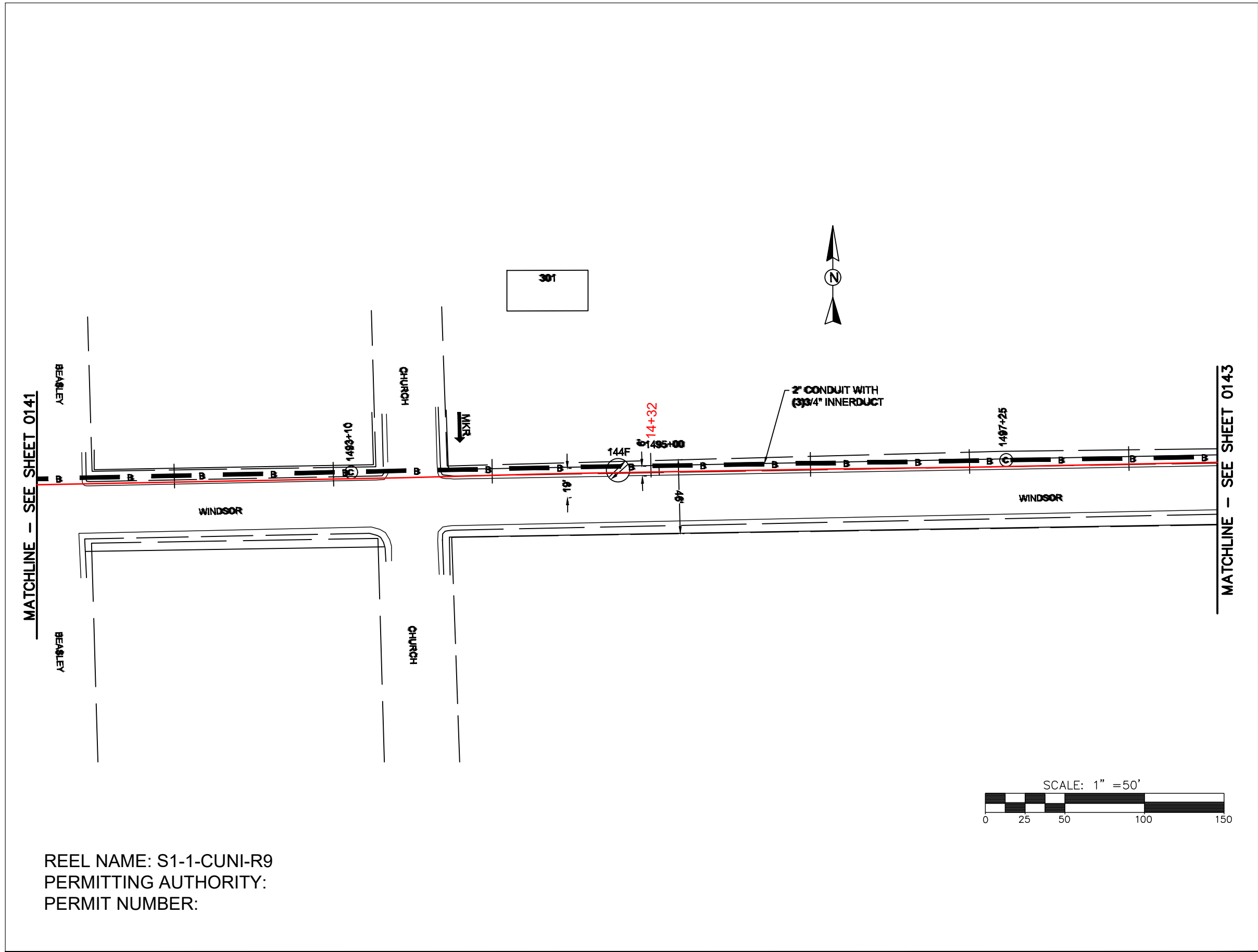


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 141 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

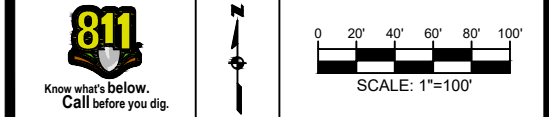
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

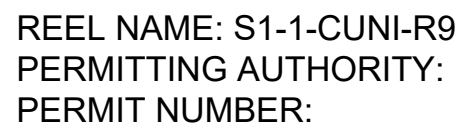


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 142 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

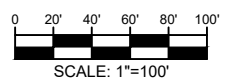


CLIENT: MCNC
JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

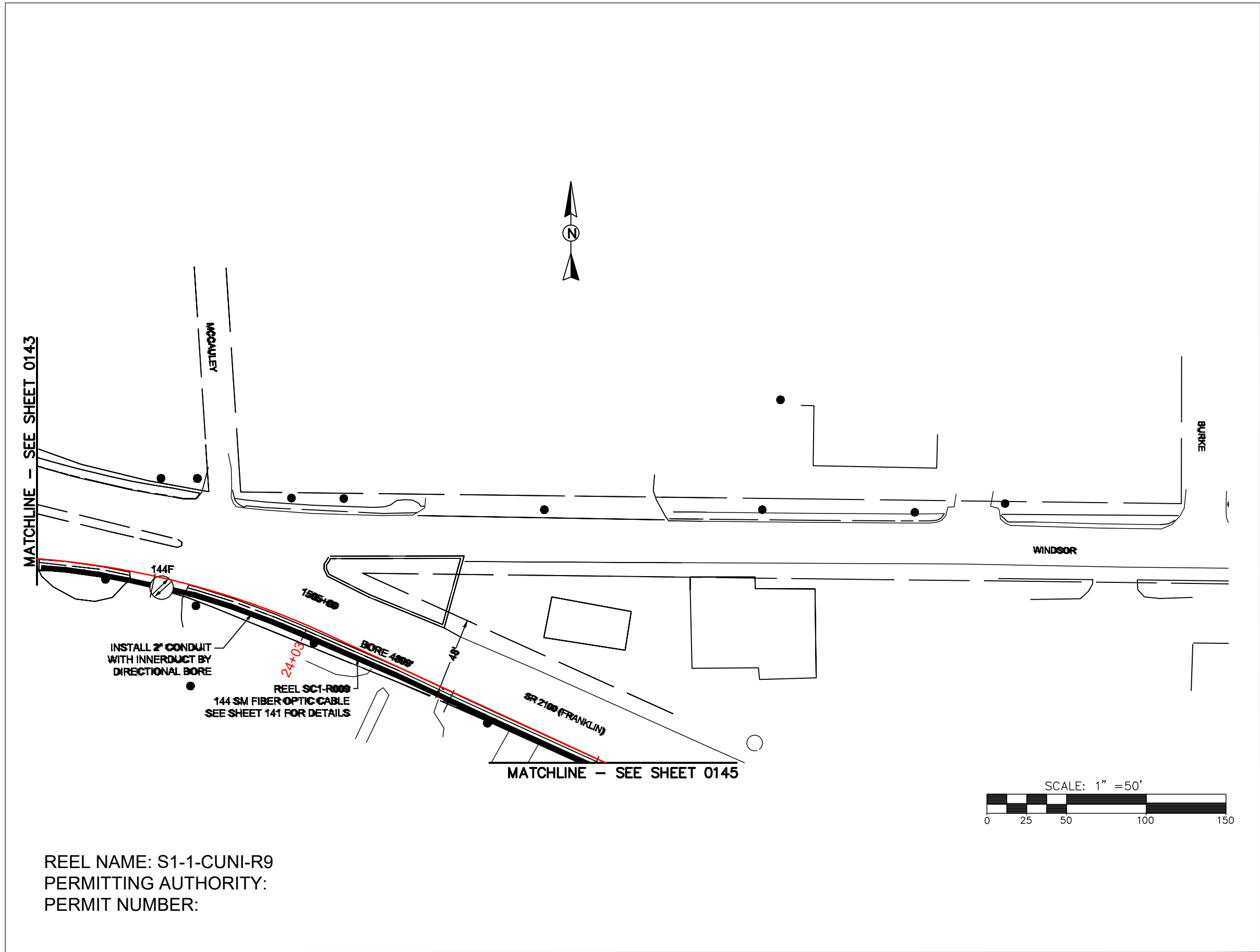
SHEET NUMBER:

143

OF

220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

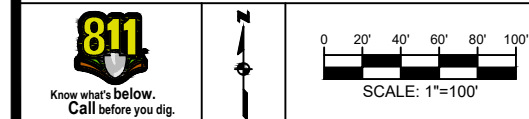
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

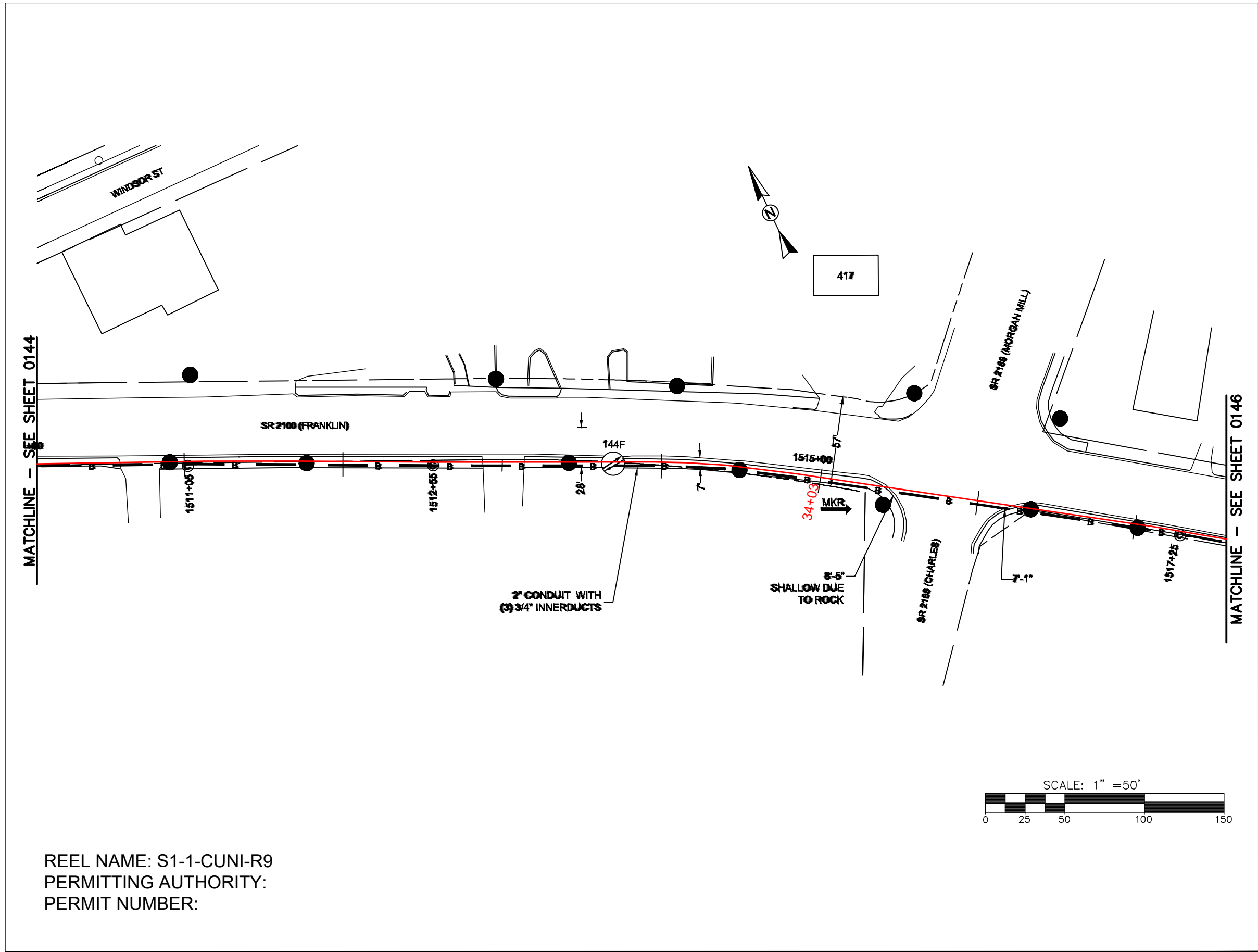
DESIGNER:
R.B.

DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 144 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



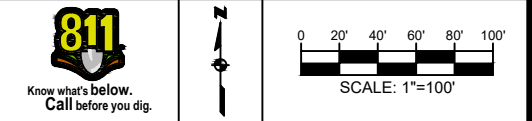
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

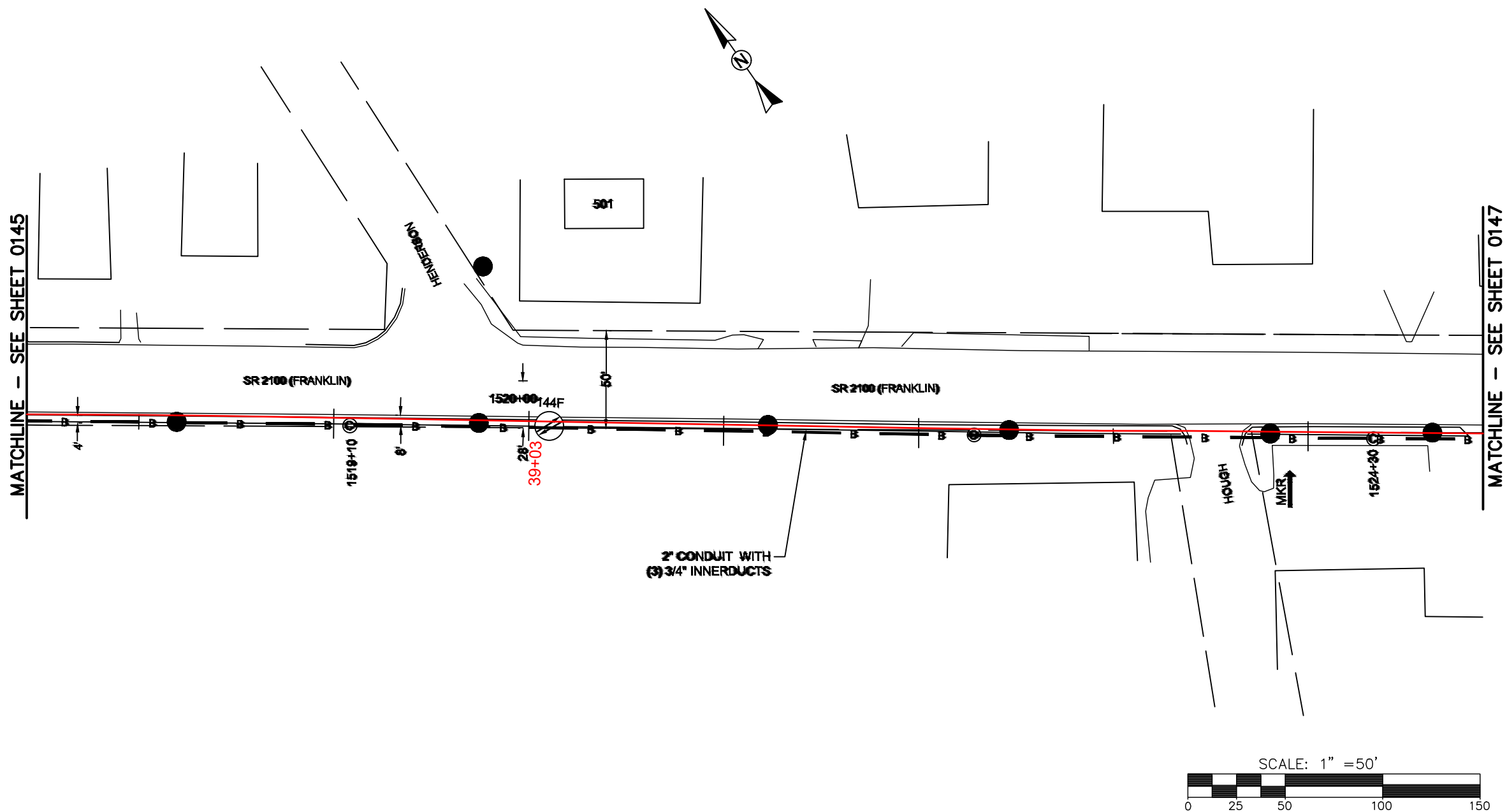


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 145 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



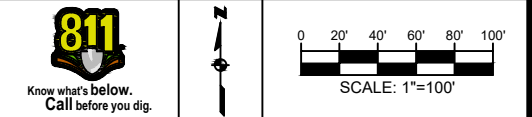
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

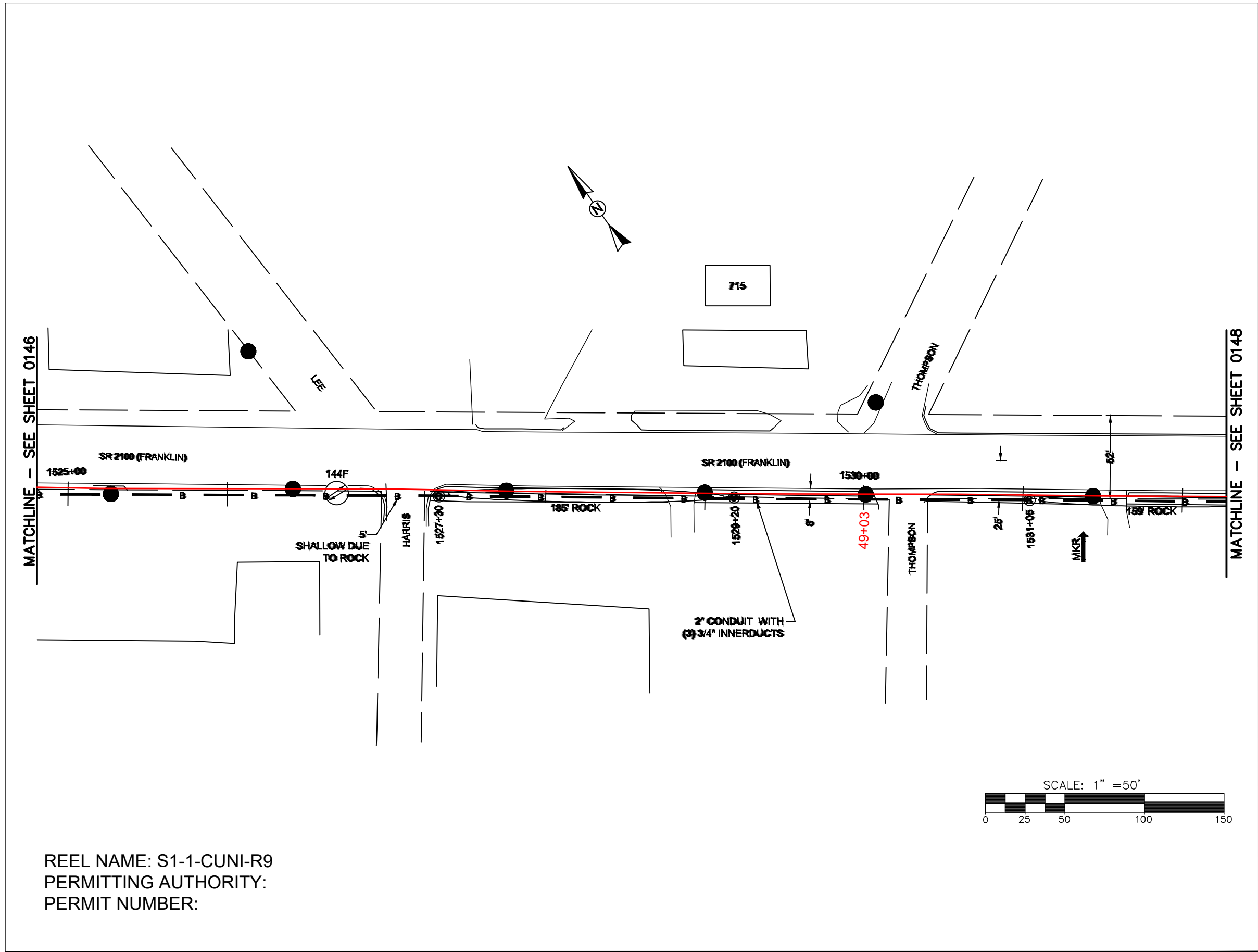


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 146 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

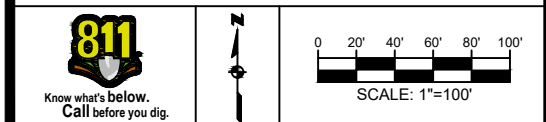
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

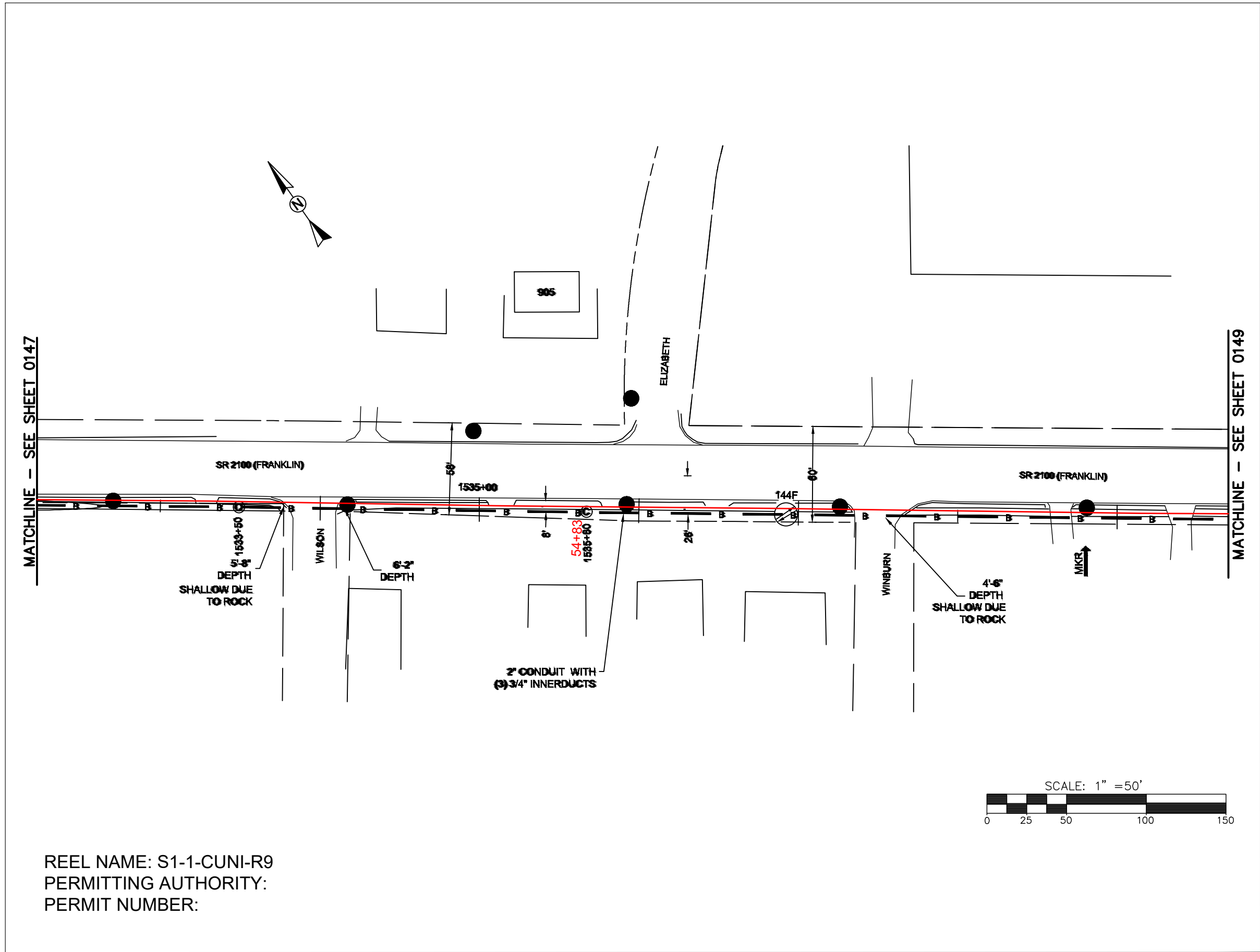


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 147 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



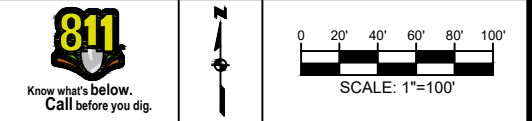
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

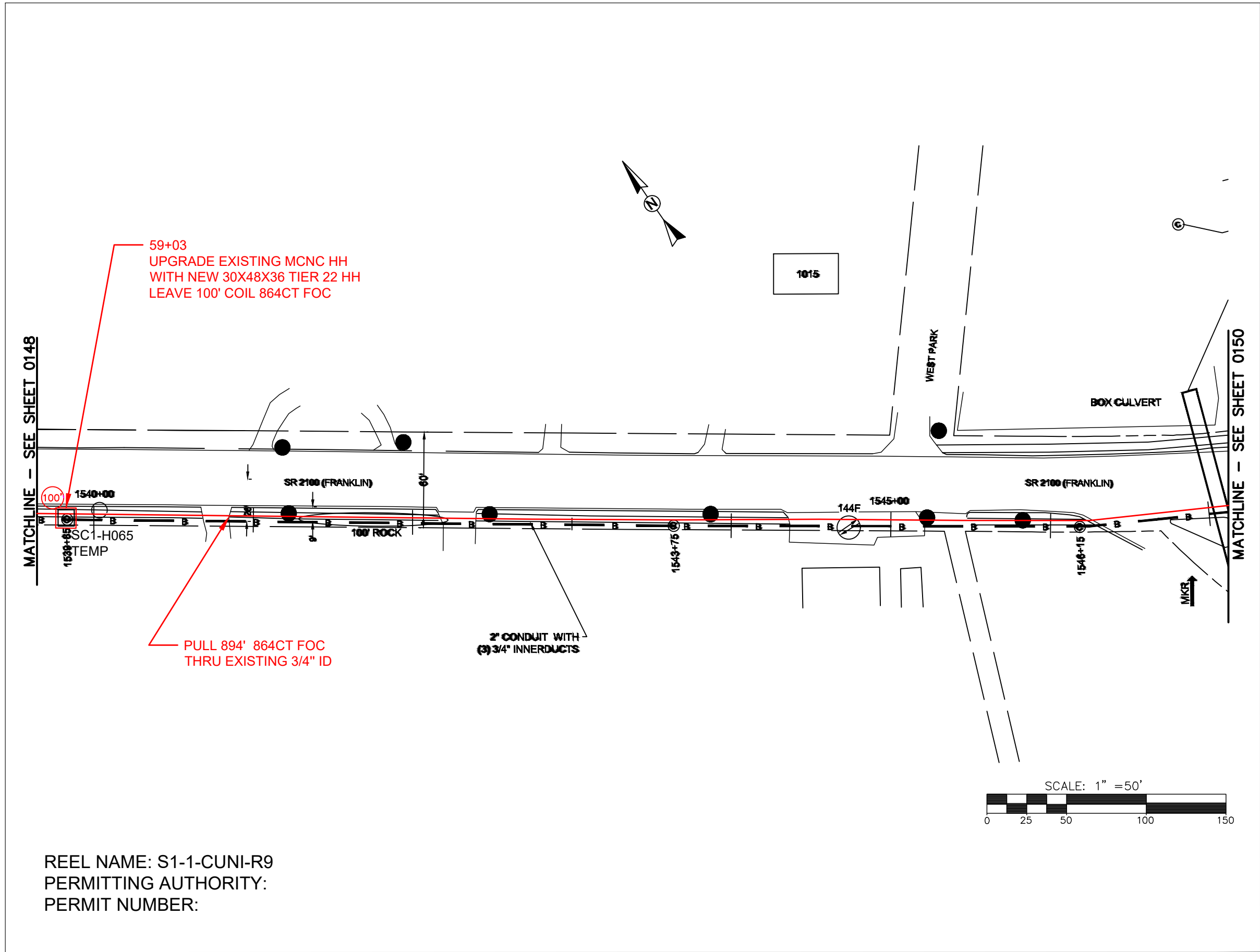


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 148 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



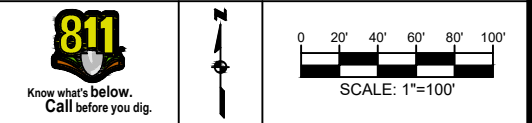
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



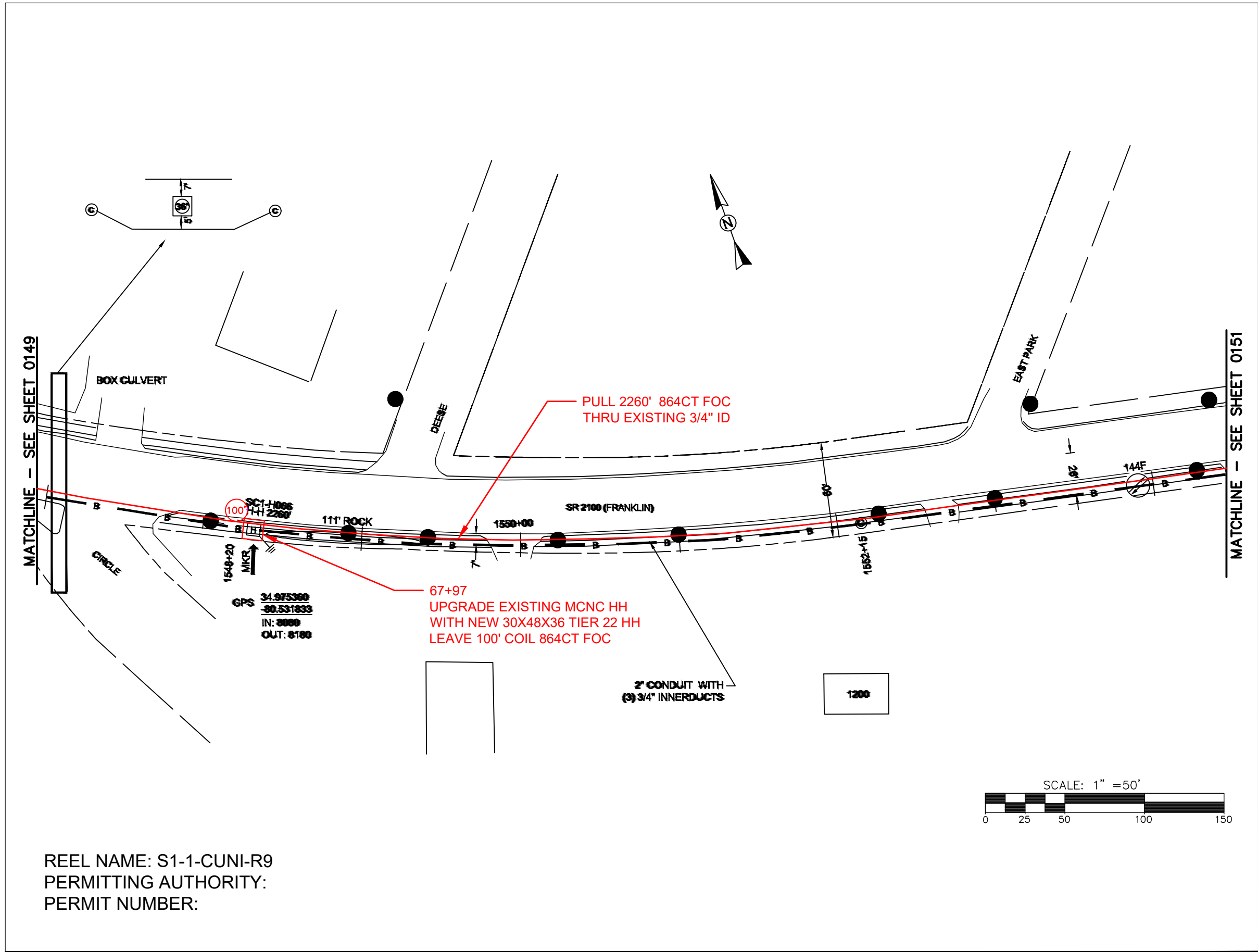
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25

SHEET NUMBER:
149
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



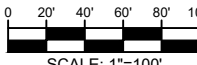


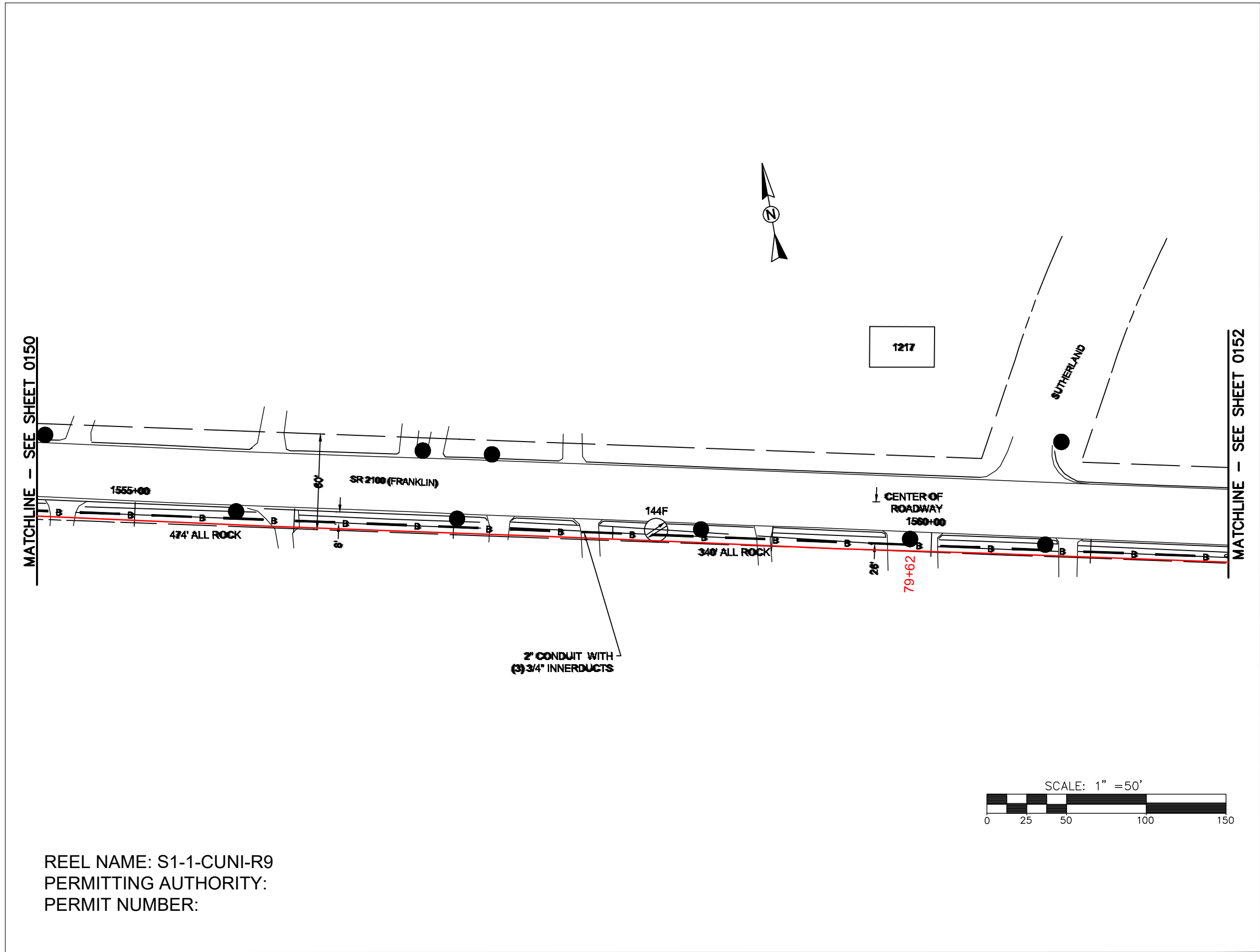
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CONFIDENTIAL AND PROPRIETARY	
CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
 Know what's below. Call before you dig.	
	 SCALE: 1"=100'
SCALE: NTS	SHEET NUMBER: 150 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



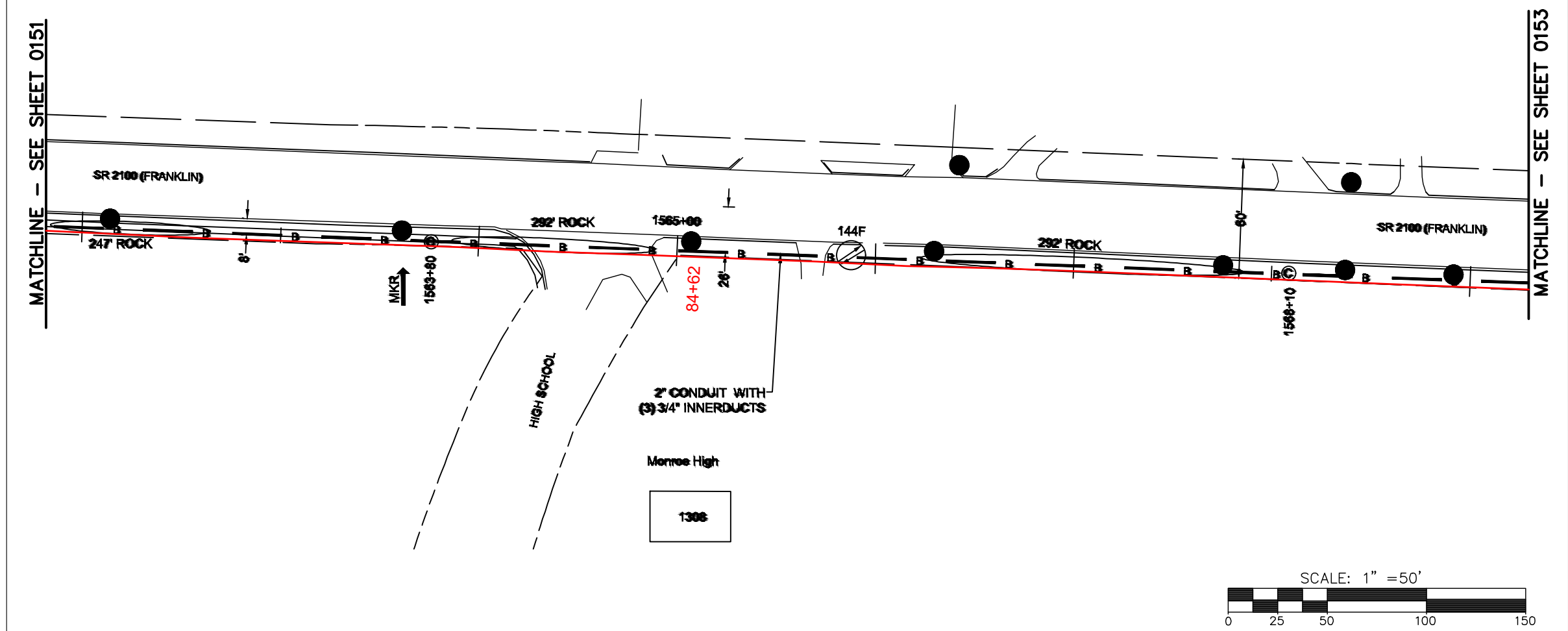
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CONFIDENTIAL AND PROPRIETARY	
CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
<p>SCALE: 1"=100'</p>	<p>SHEET NUMBER:</p> <p>151</p> <p>OF</p> <p>220</p>
<p>SCALE:</p> <p>NTS</p>	<p>PLOT DATE:</p> <p>3/24/25</p>
<p>FILE NAME: (Charlotte-Polkton)- REDLINES.dwg</p>	



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

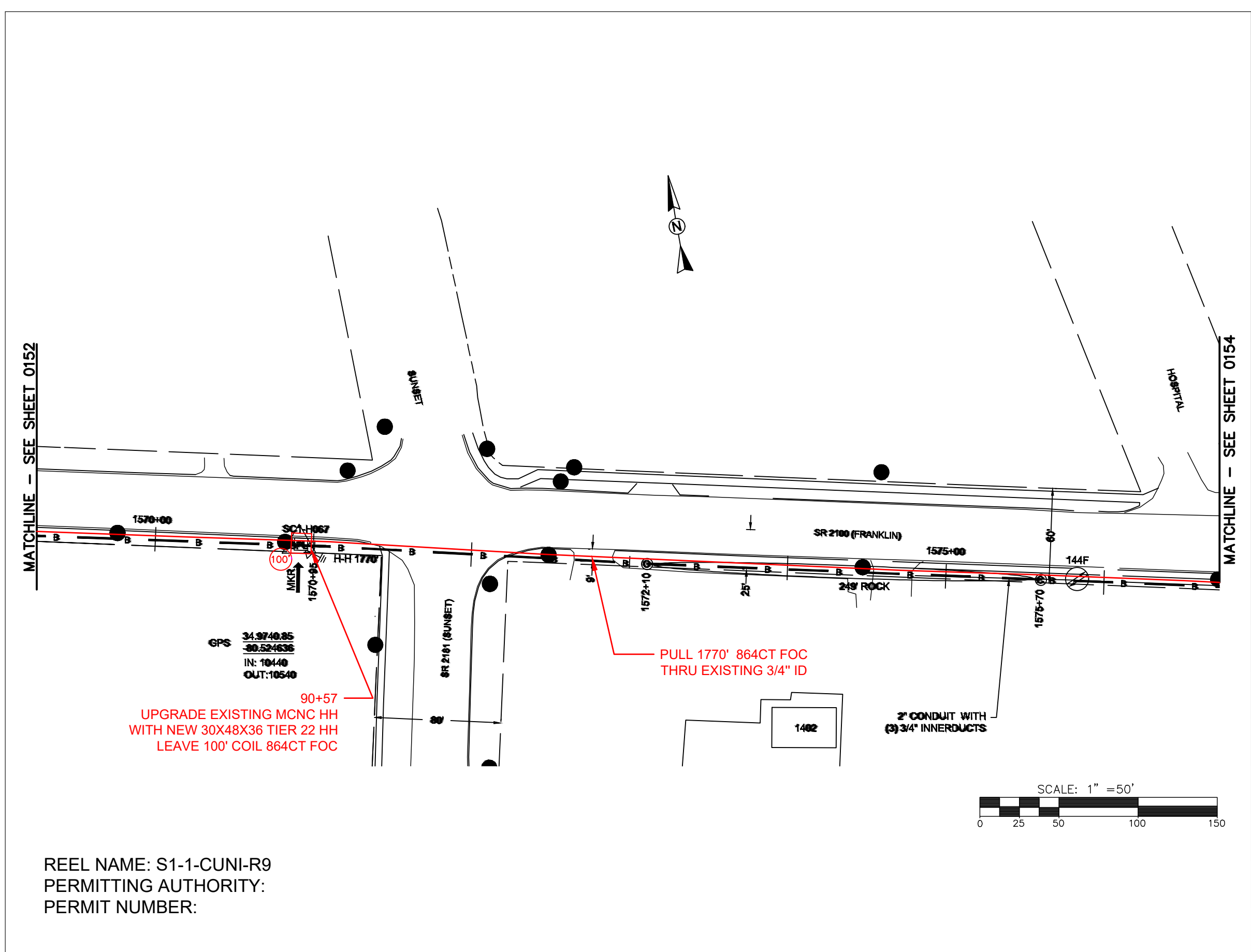
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 152 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

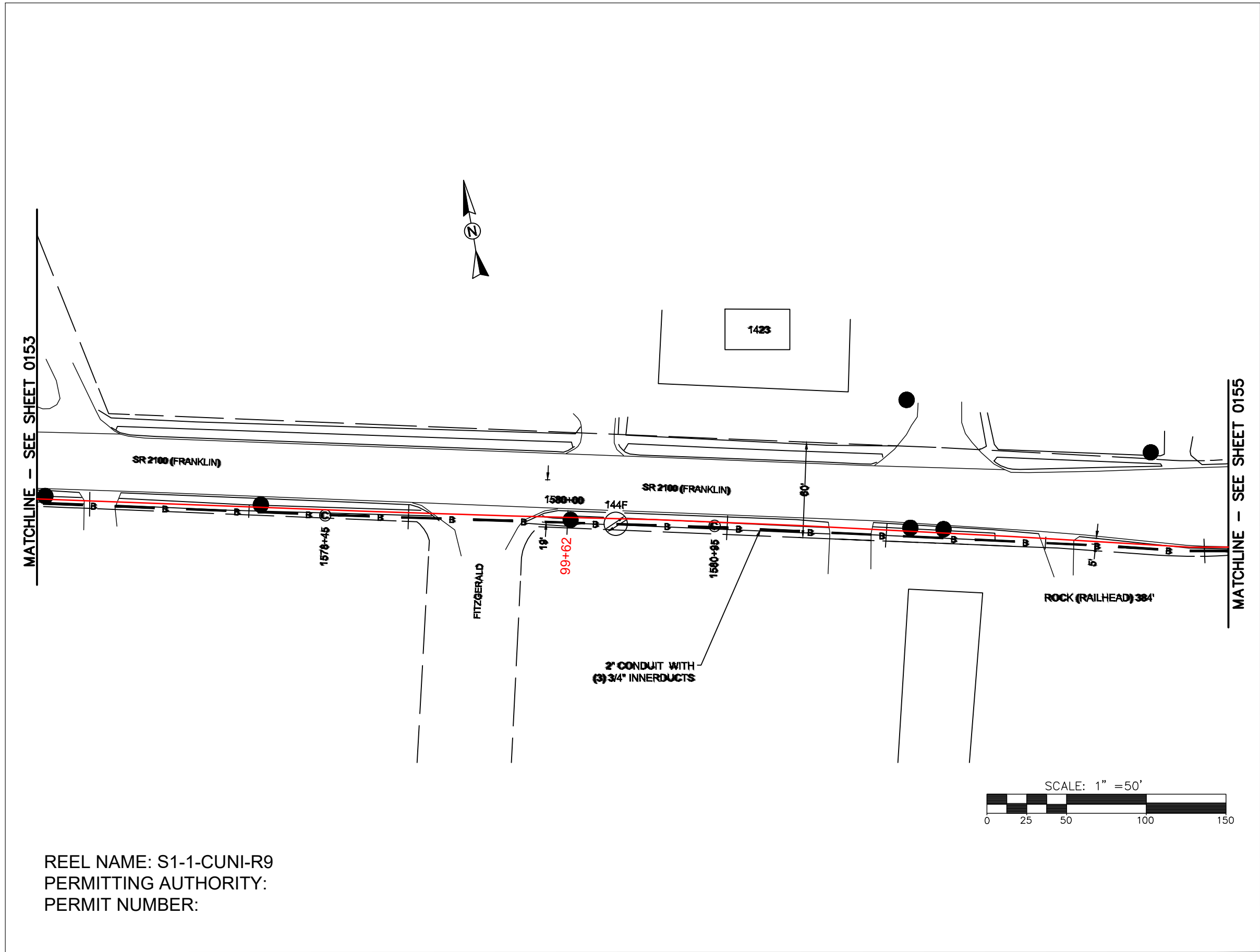
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 153 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



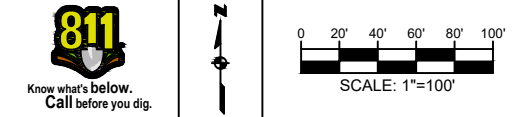
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

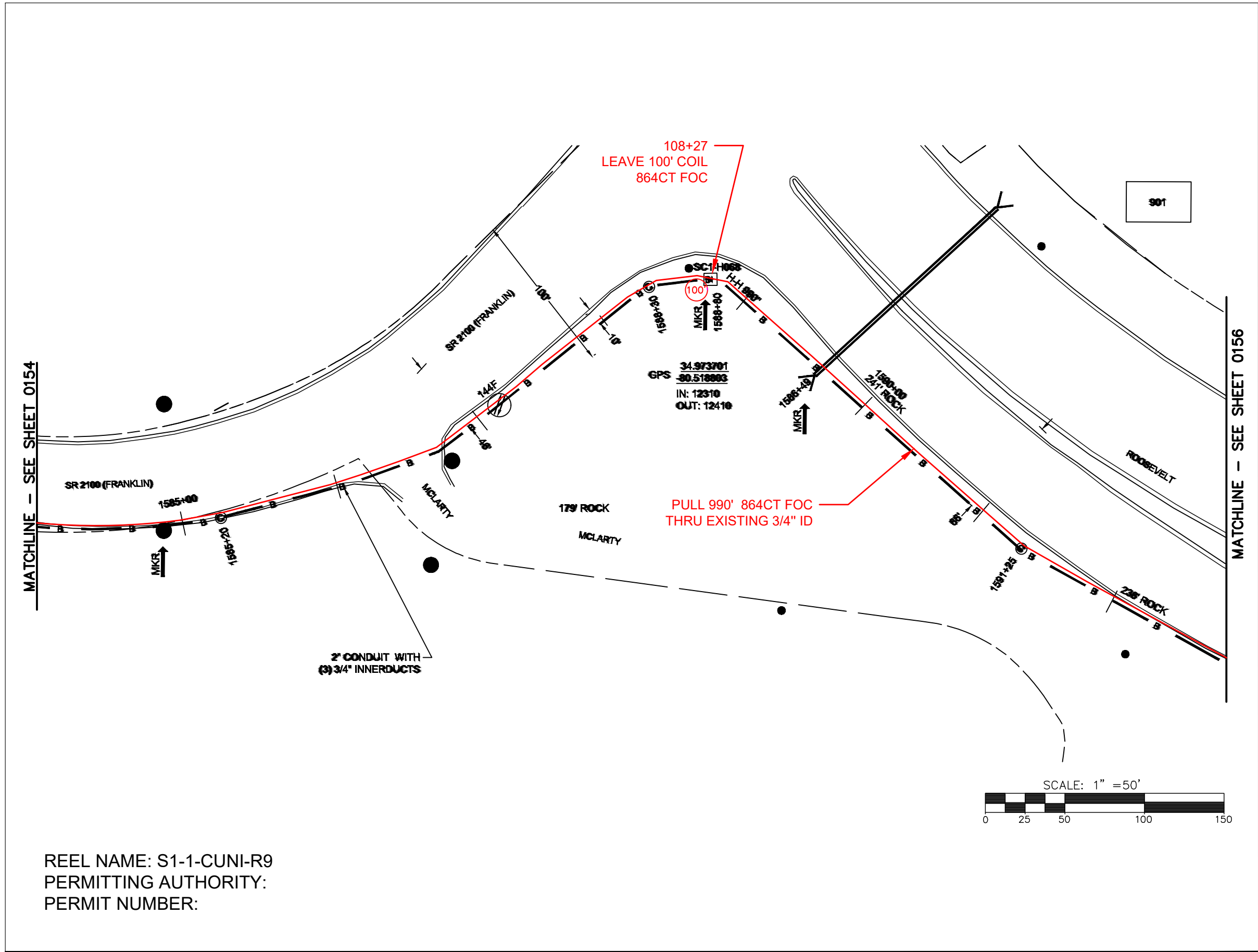


SCALE: NTS

PLOT DATE: 3/24/25

SHEET NUMBER: 154 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

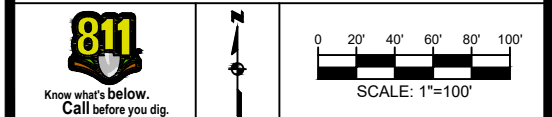
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



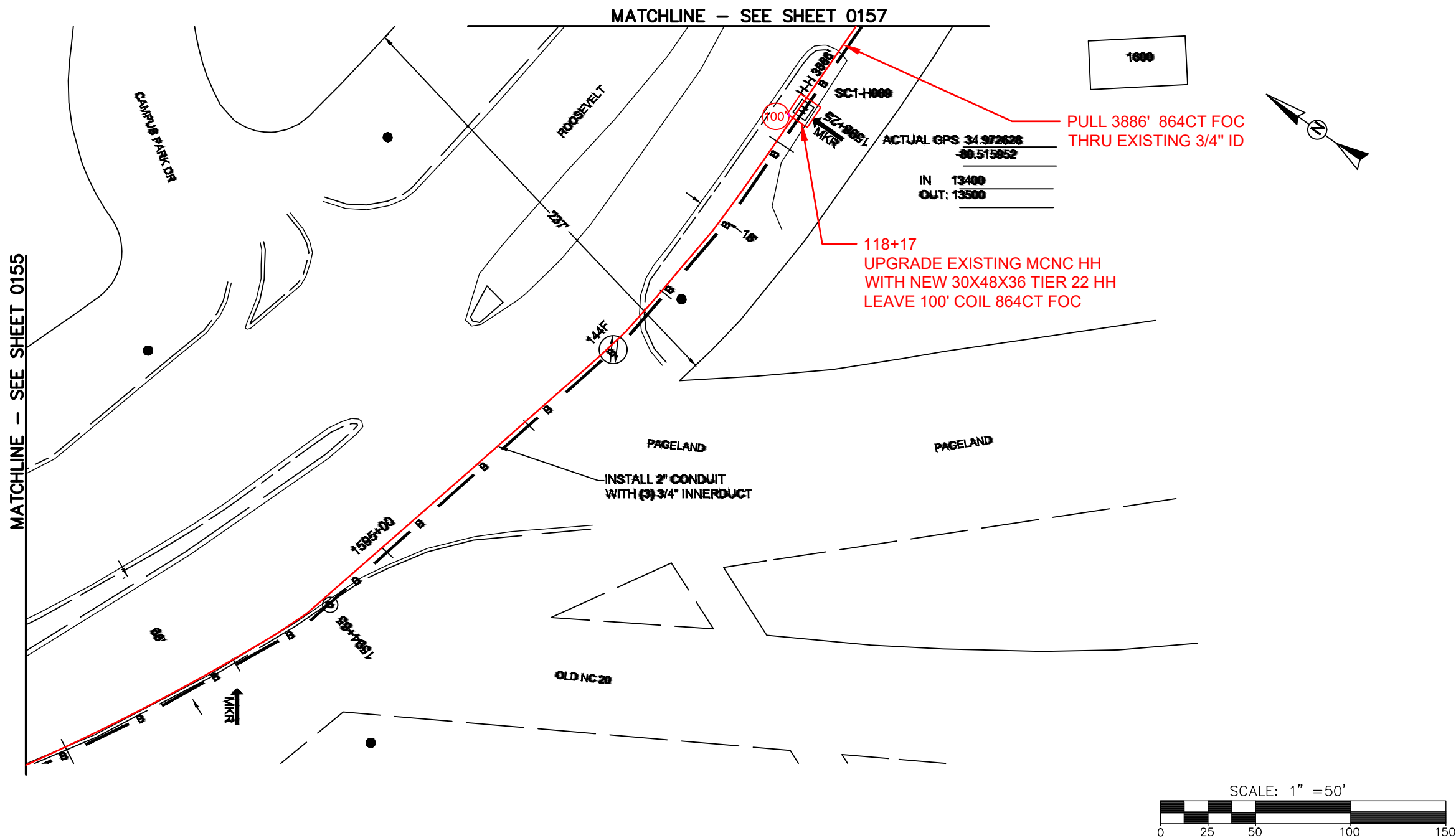
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 155 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



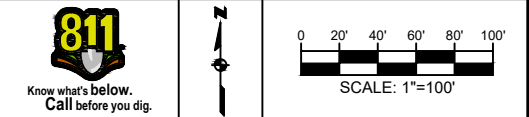
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



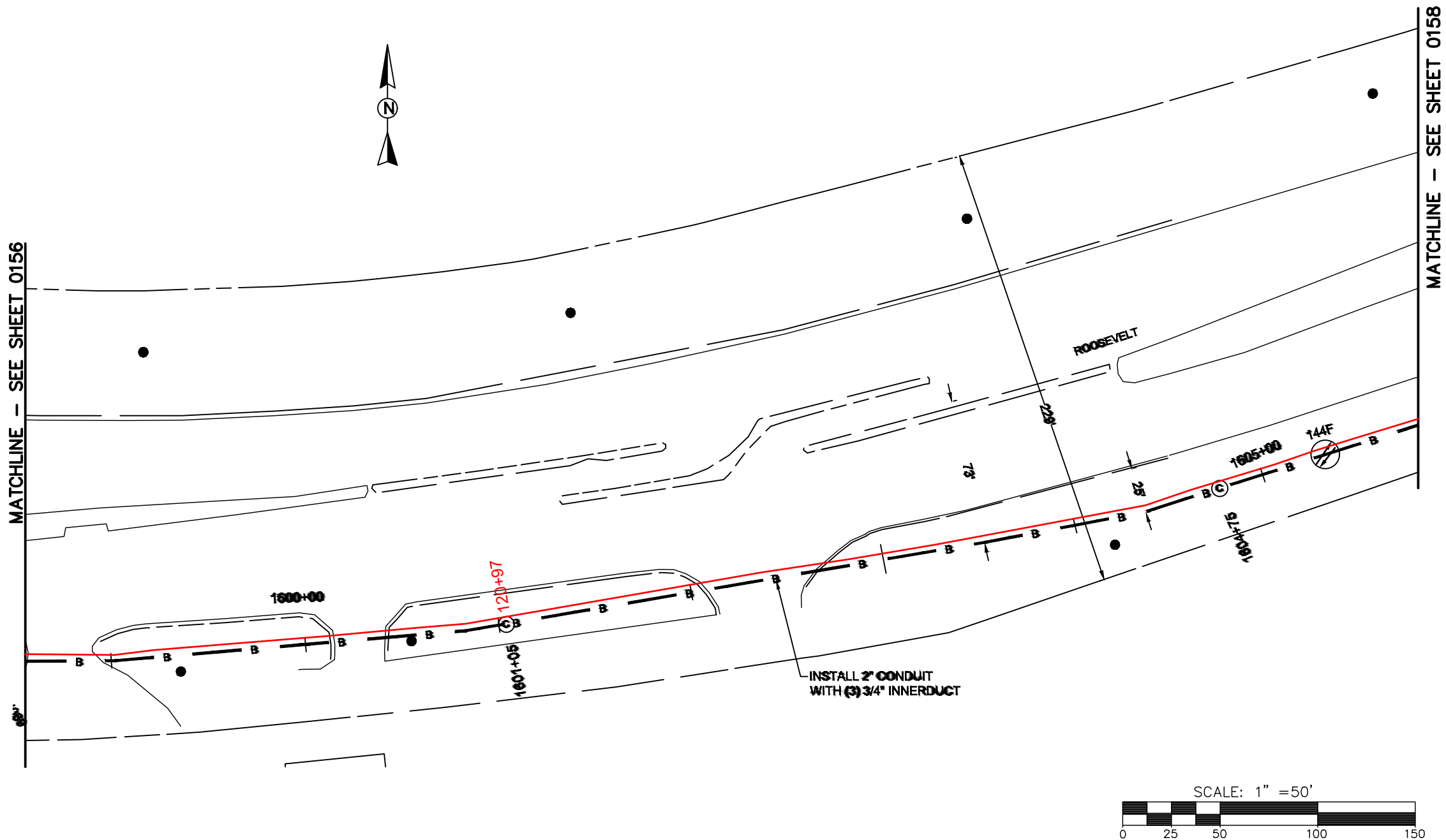
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25

SHEET NUMBER:
156
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

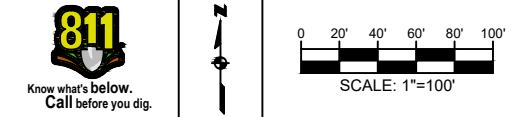
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

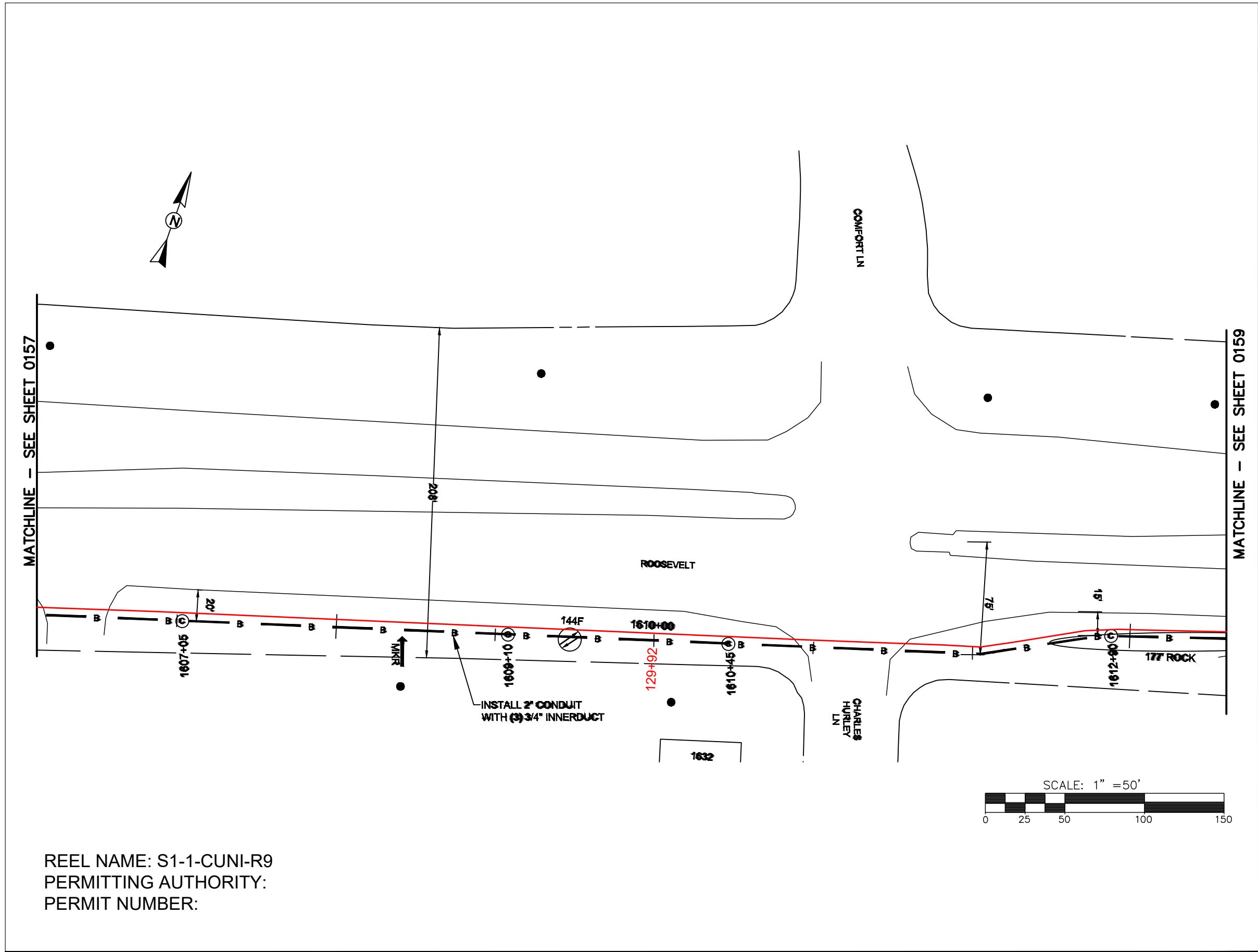


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 157 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

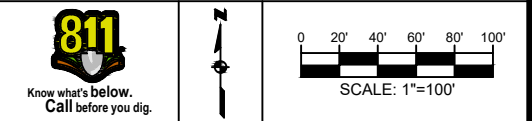


CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 158 OF 220

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

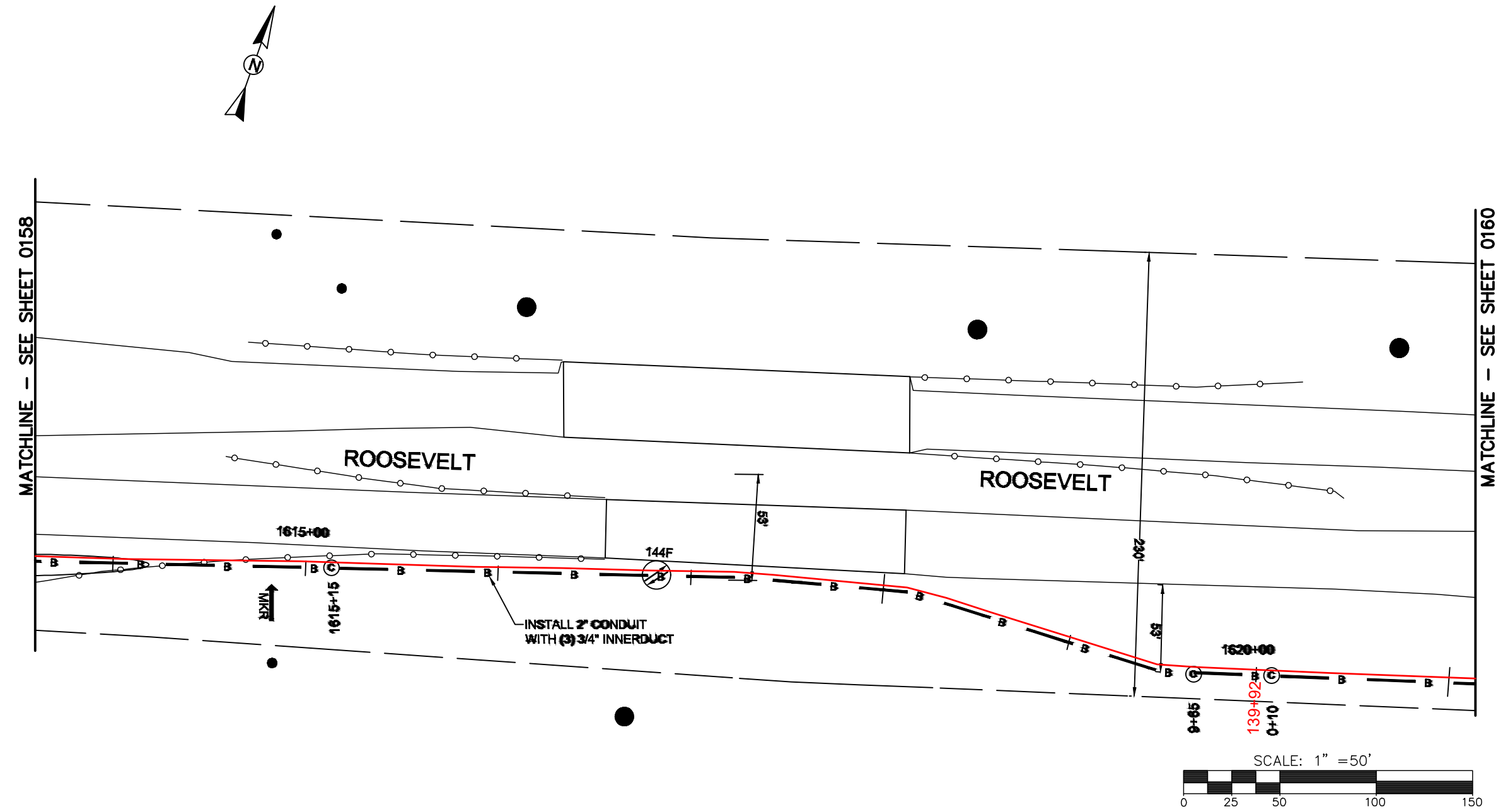
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 159 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

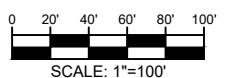
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

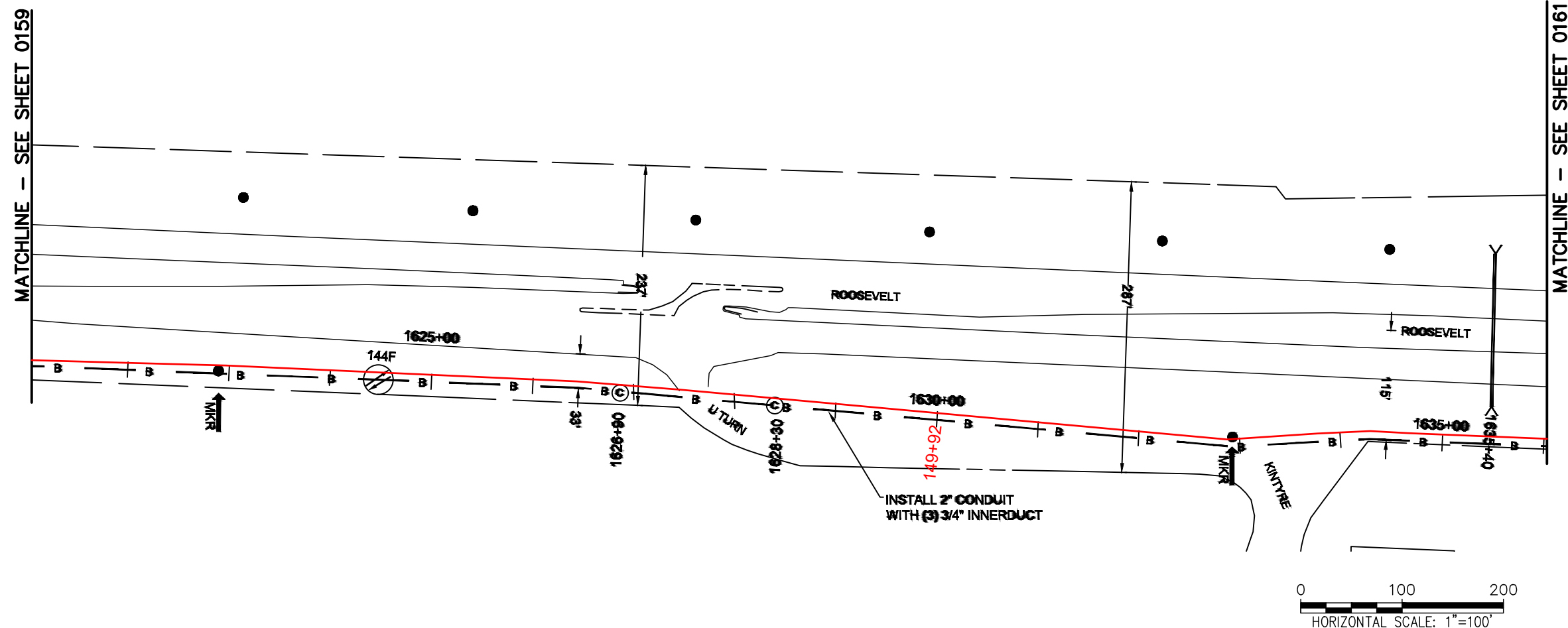


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 160 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

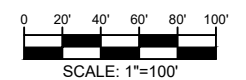
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

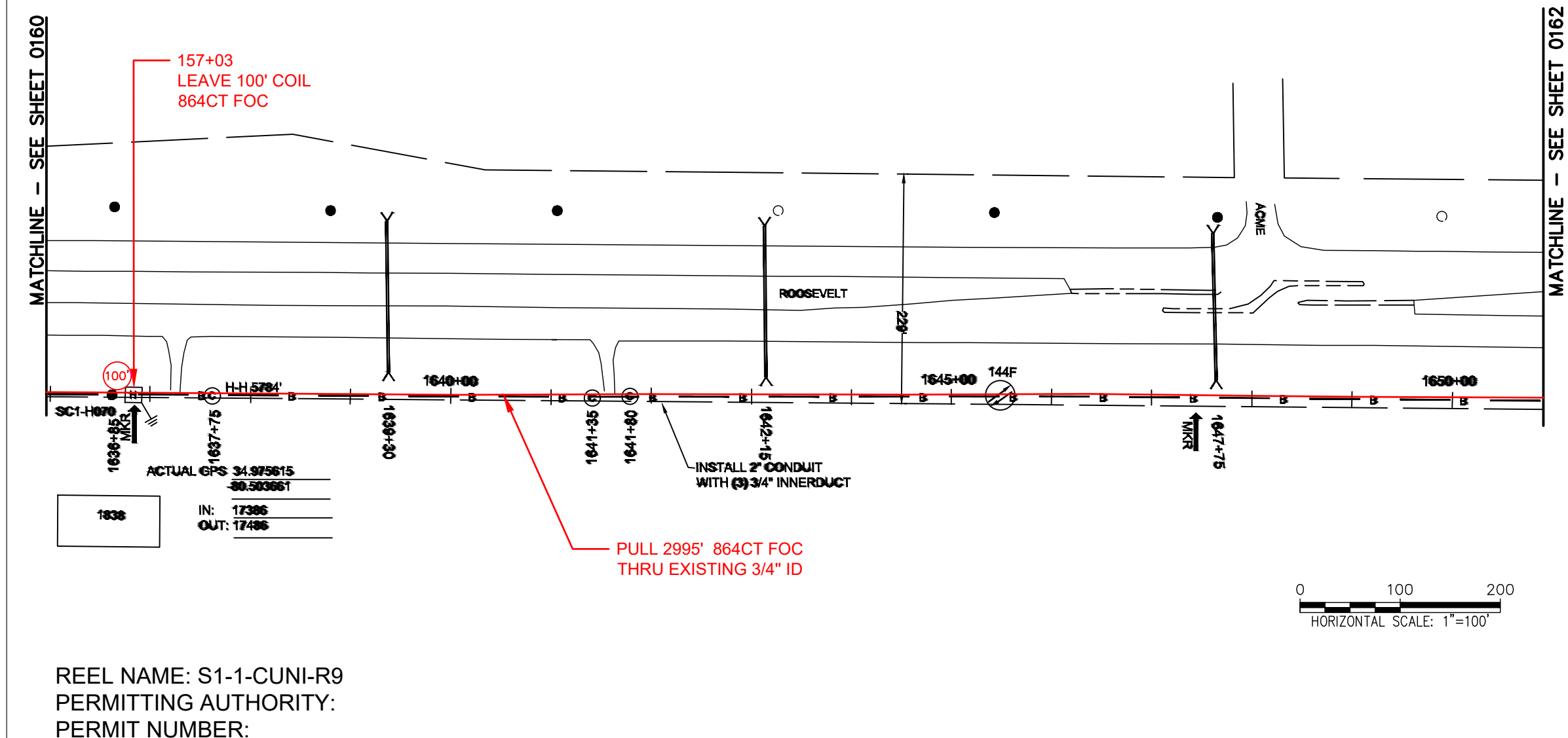


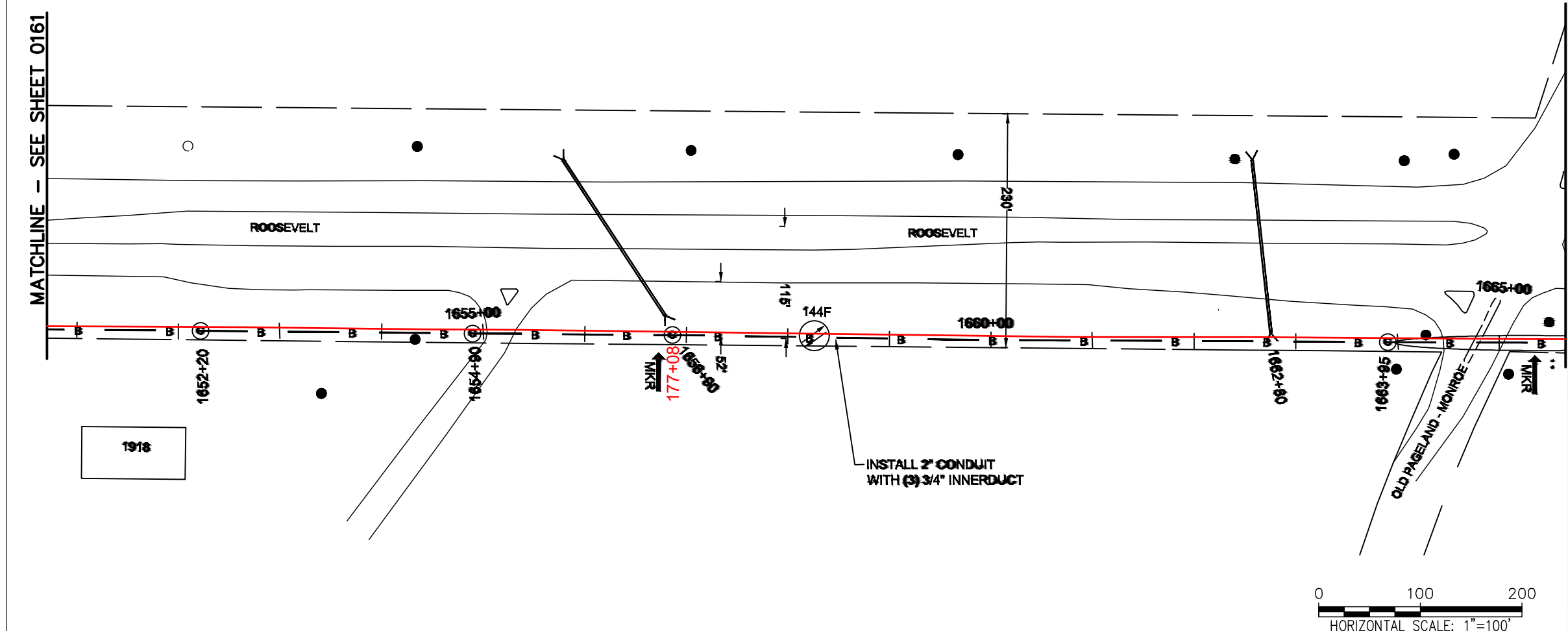
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 161 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg





REEL NAME: S1-1-CUNI-R9
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

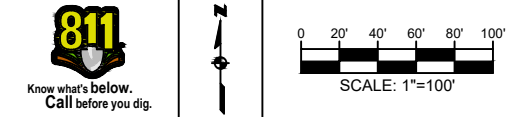
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

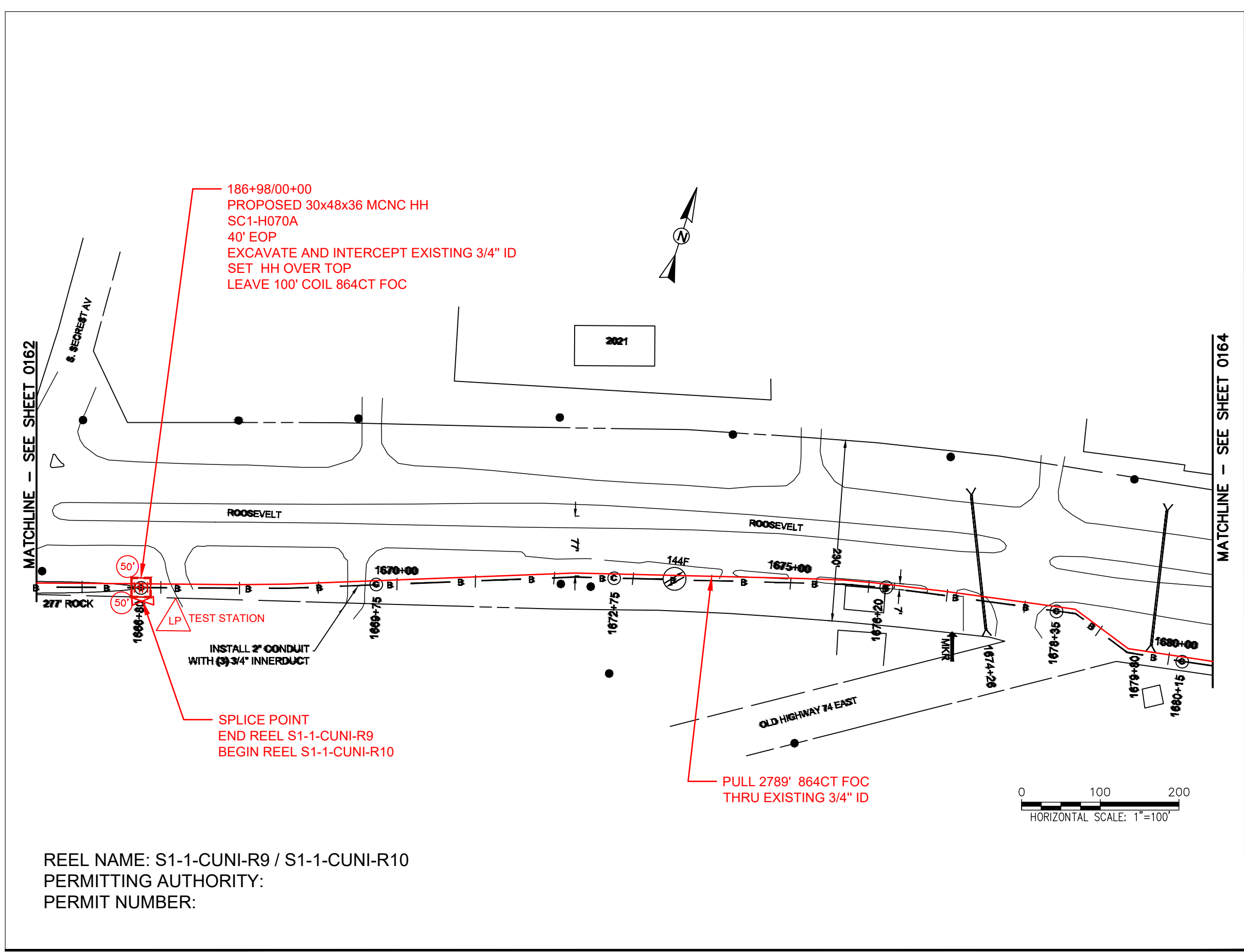


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 162 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg




REEL NAME: S1-1-CUNI-R9 / S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

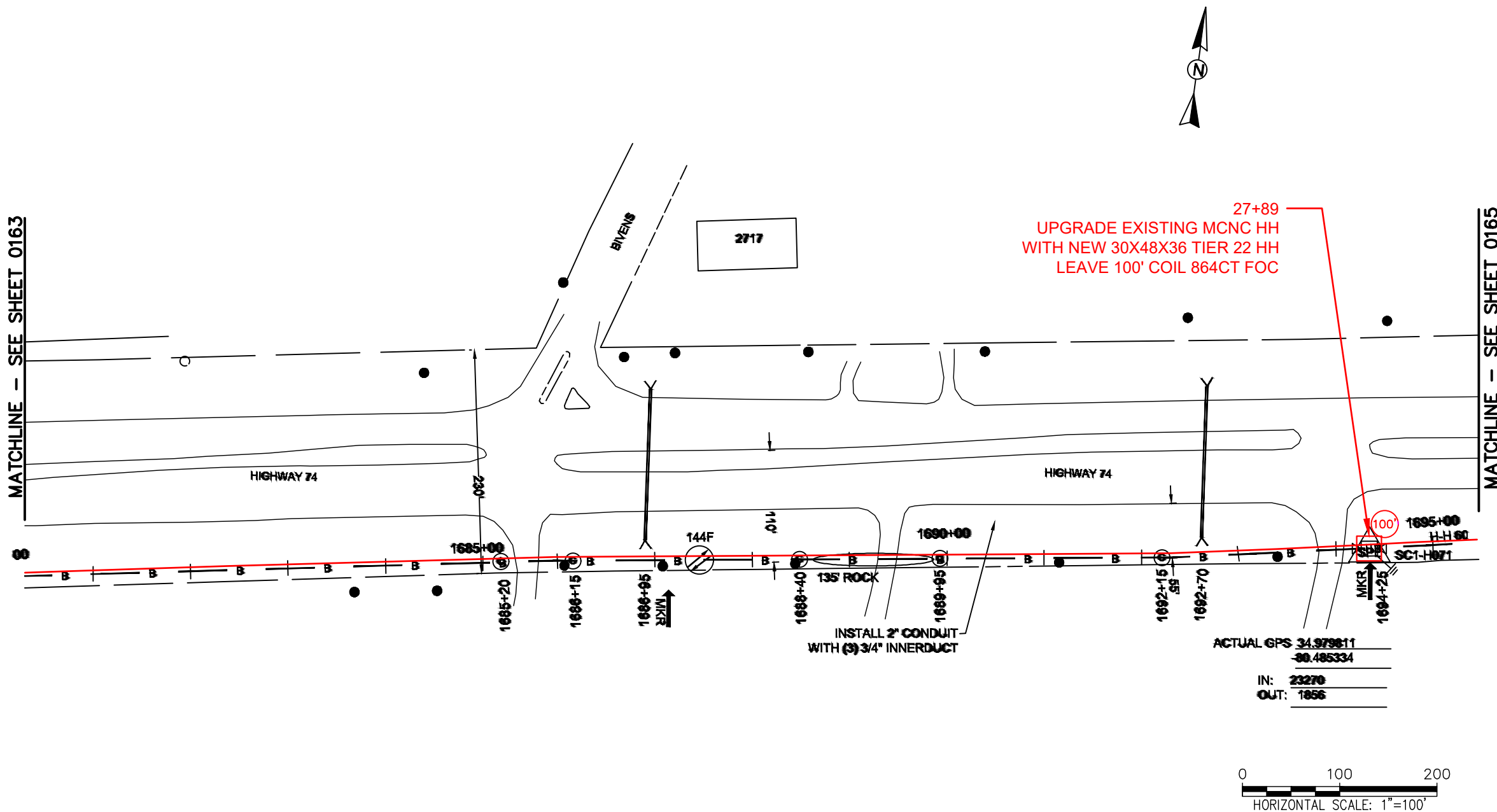
CONFIDENTIAL AND PROPRIETARY



CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
 Know what's below. Call before you dig.	
SCALE: NTS	SHEET NUMBER: 163 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

MATCHLINE - SEE SHEET 0163



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

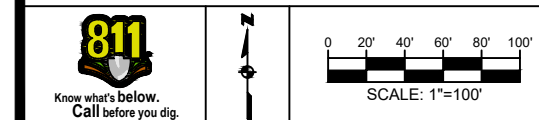
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

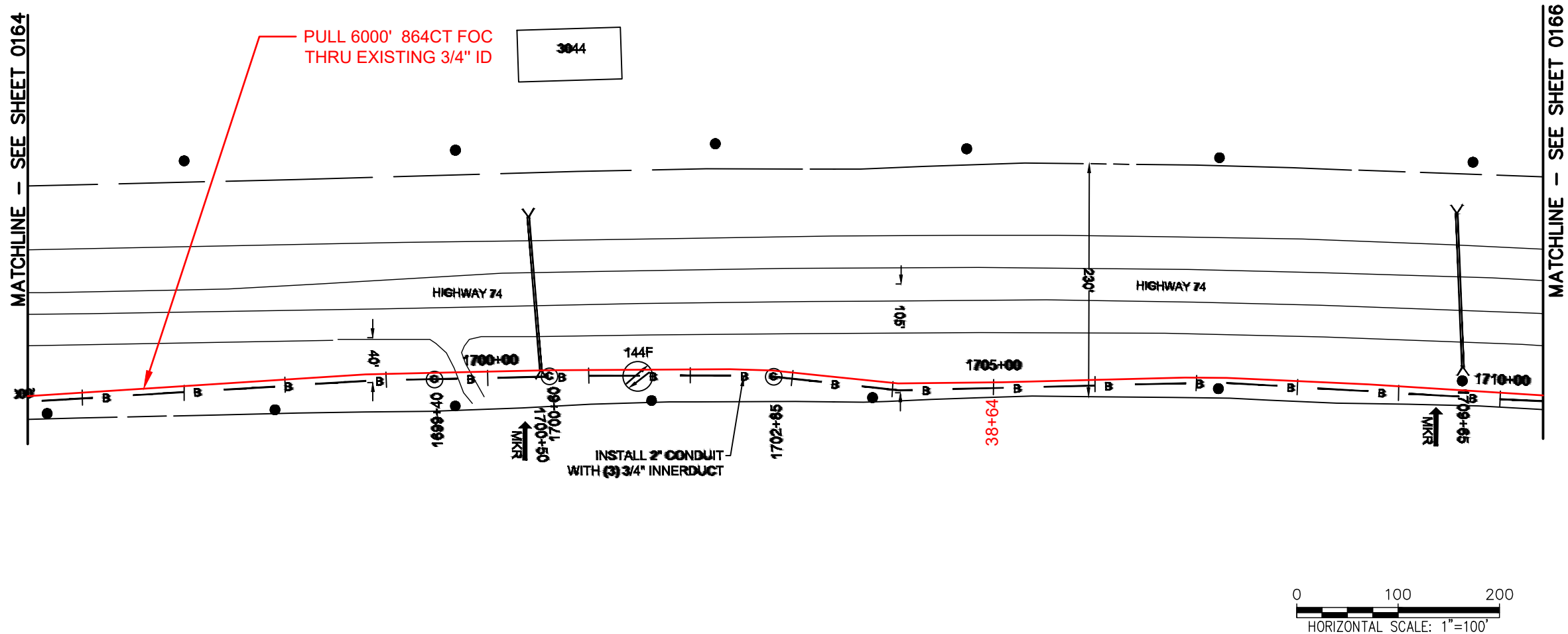


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 164 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

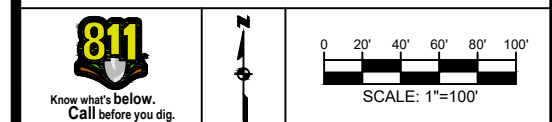
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

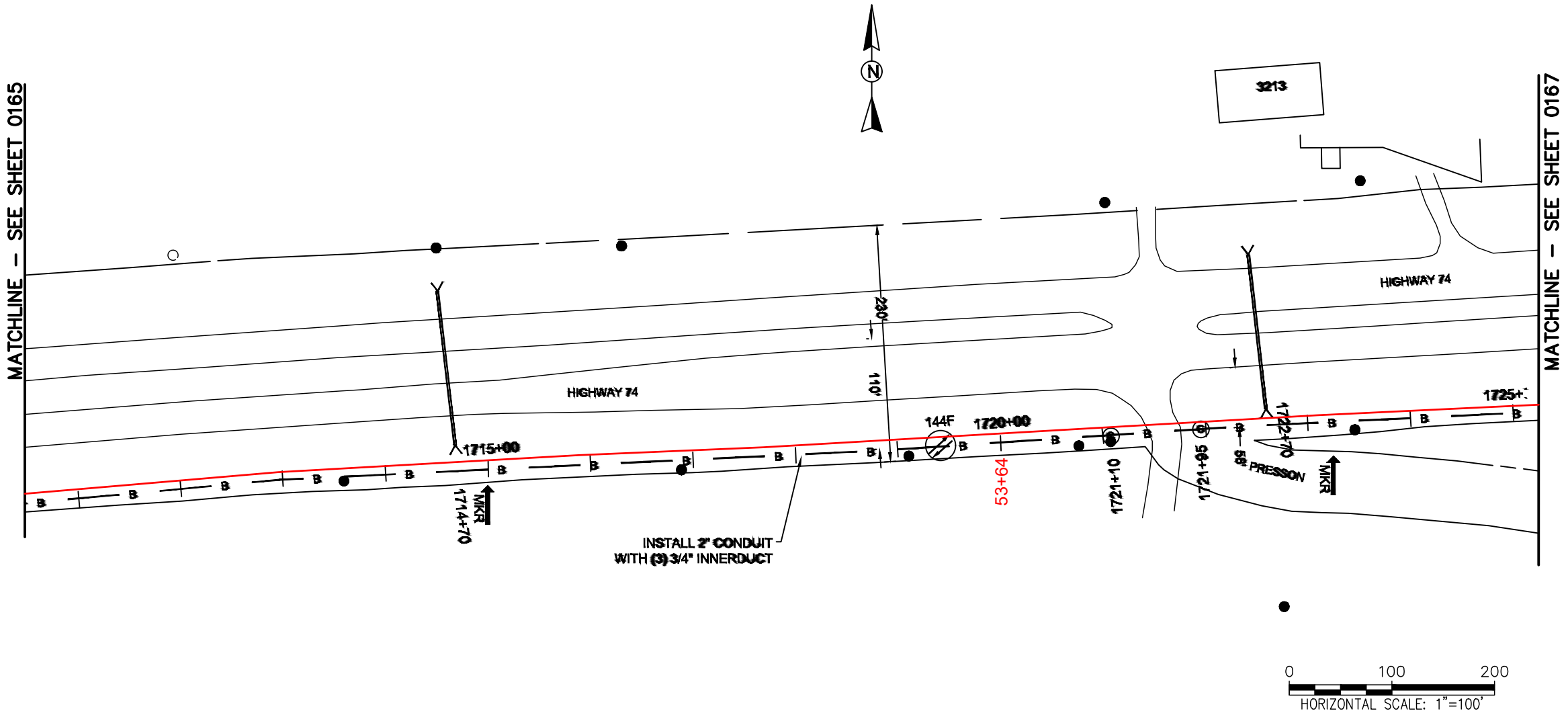


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 165 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10
 PERMITTING AUTHORITY:
 PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
 AT BOTTOM UNDER ALL PRE-
 EXISTING FIBER CABLES.

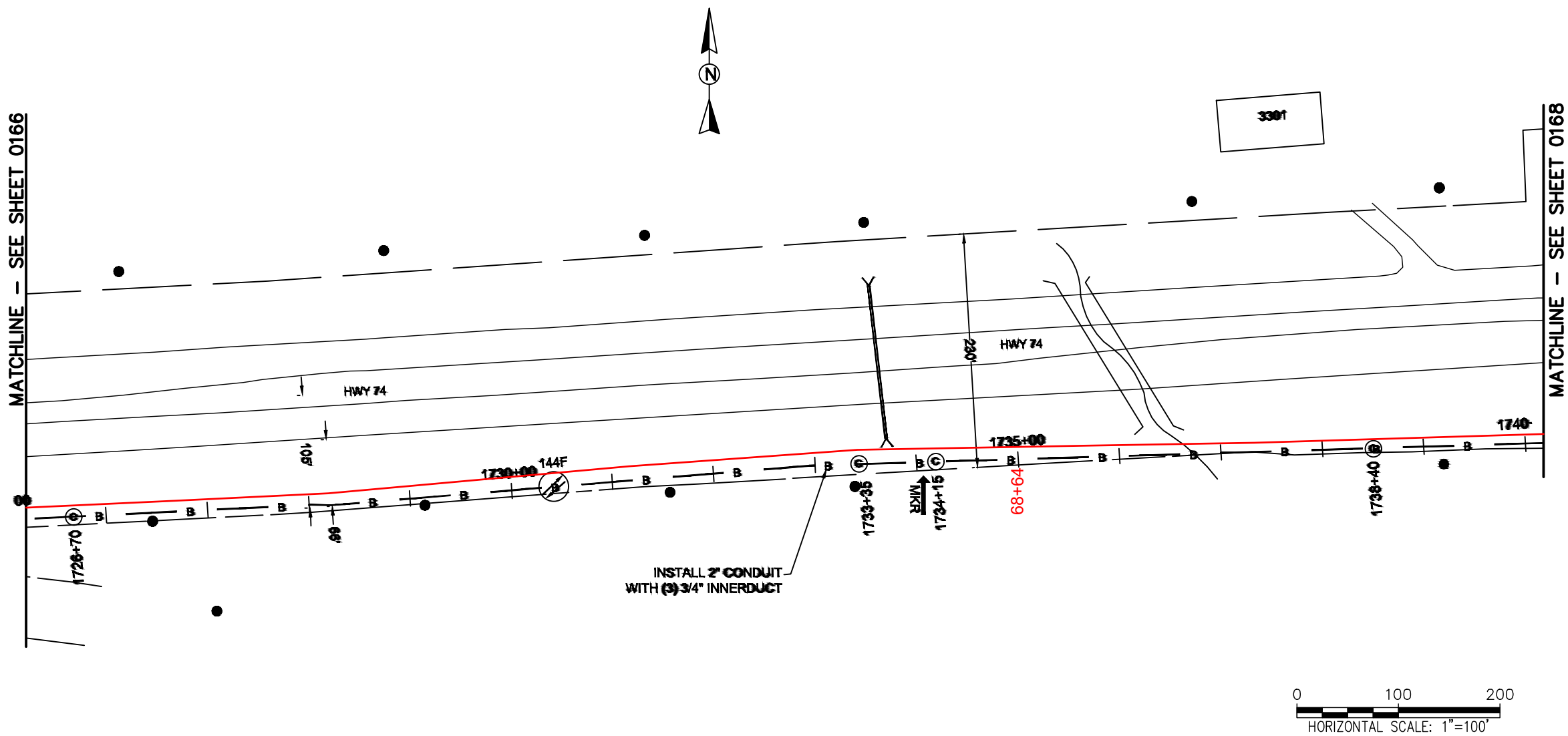
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
 MCNC
 JOB TITLE: SEGMENT 1 ROUTE 1
 JOB LOCATION: CHARLOTTE-POLKTON
 DESIGNER:
 R.B.
 DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 166 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

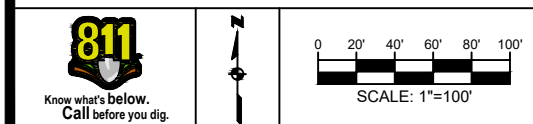
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

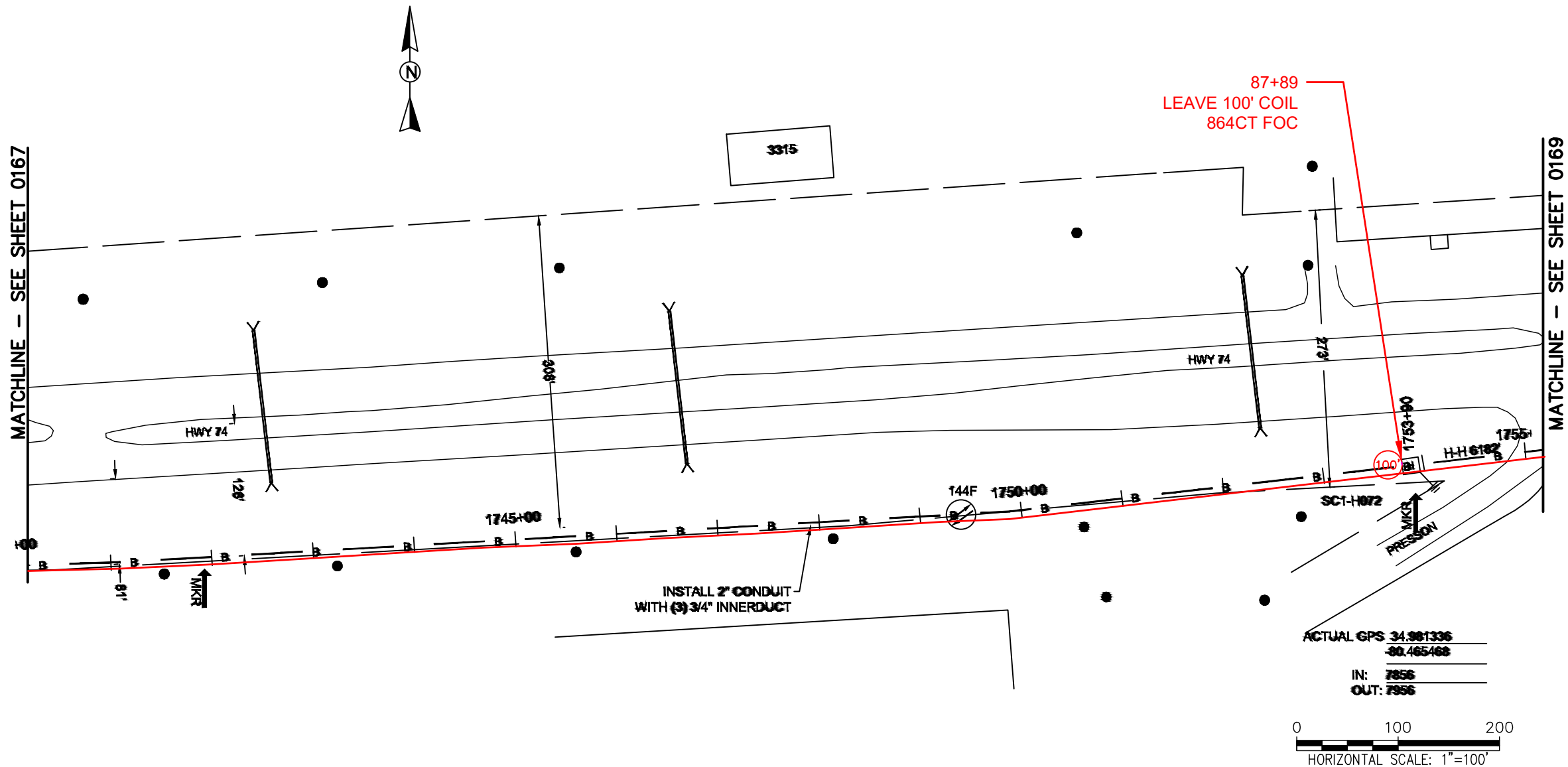


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 167 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



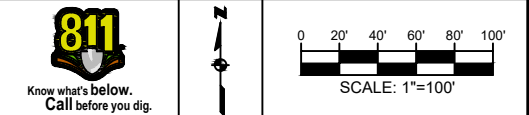
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PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

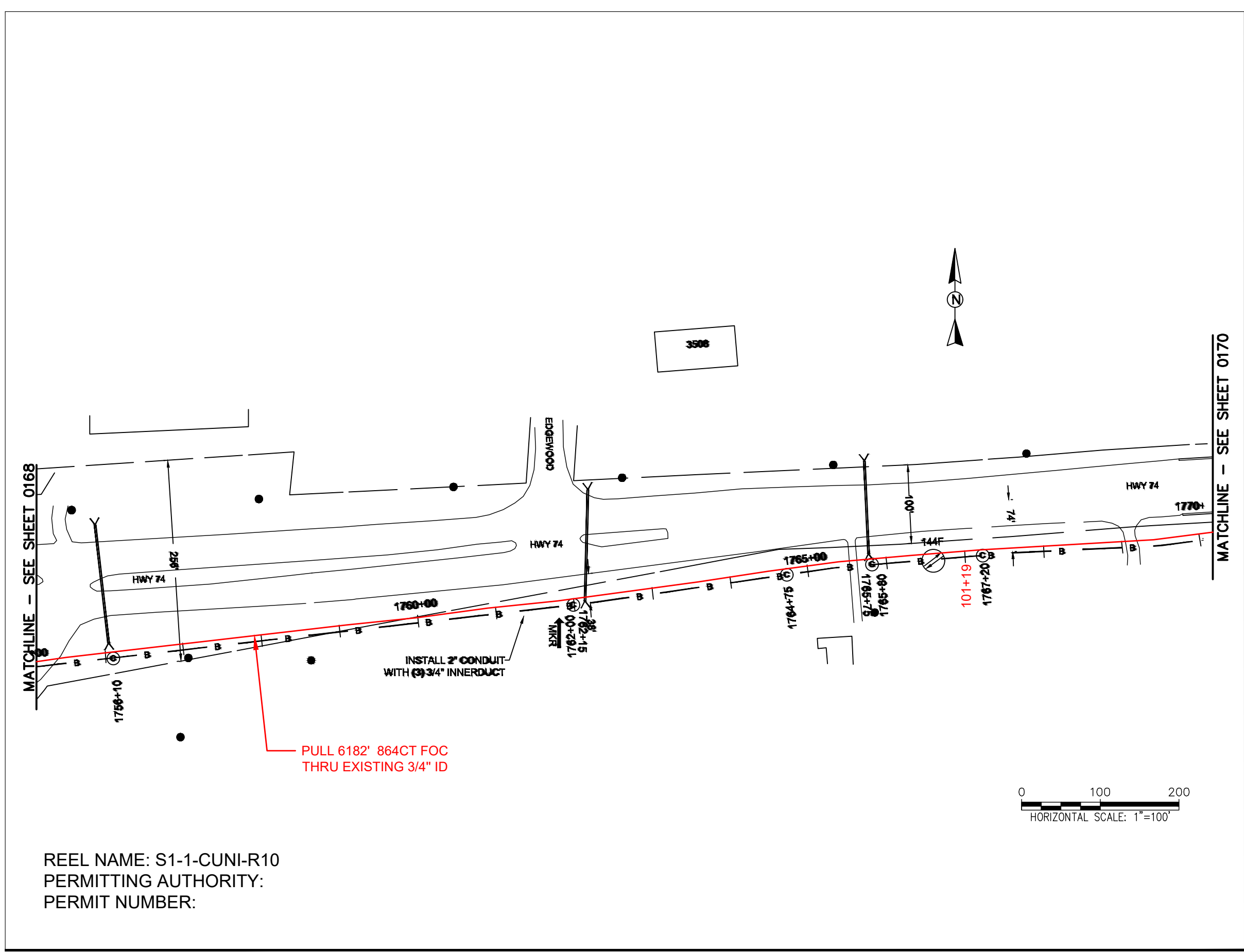


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 168
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

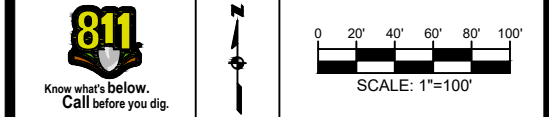
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

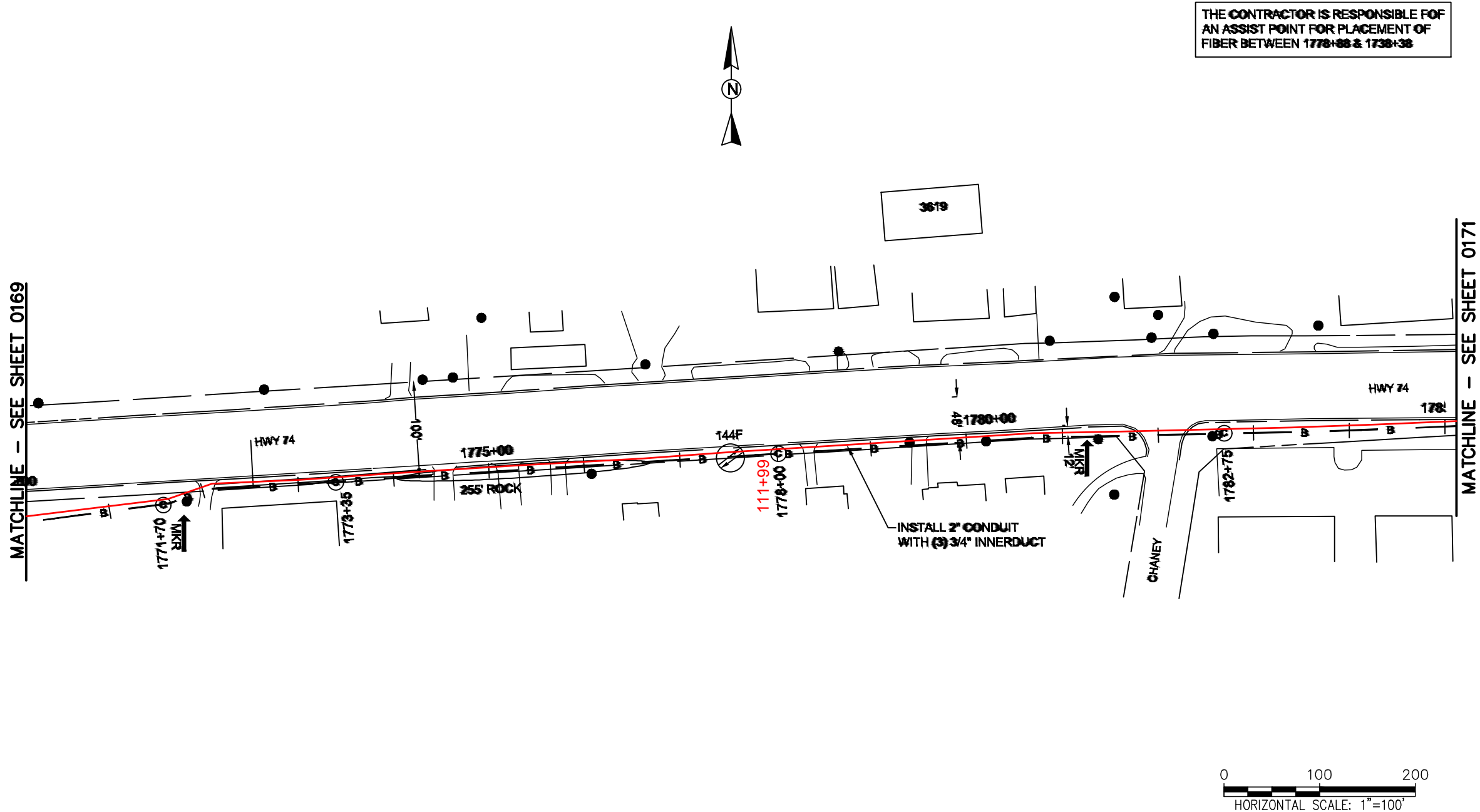


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 169 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



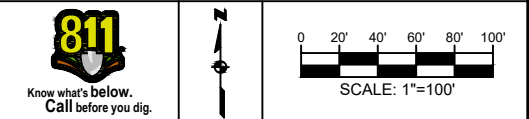
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

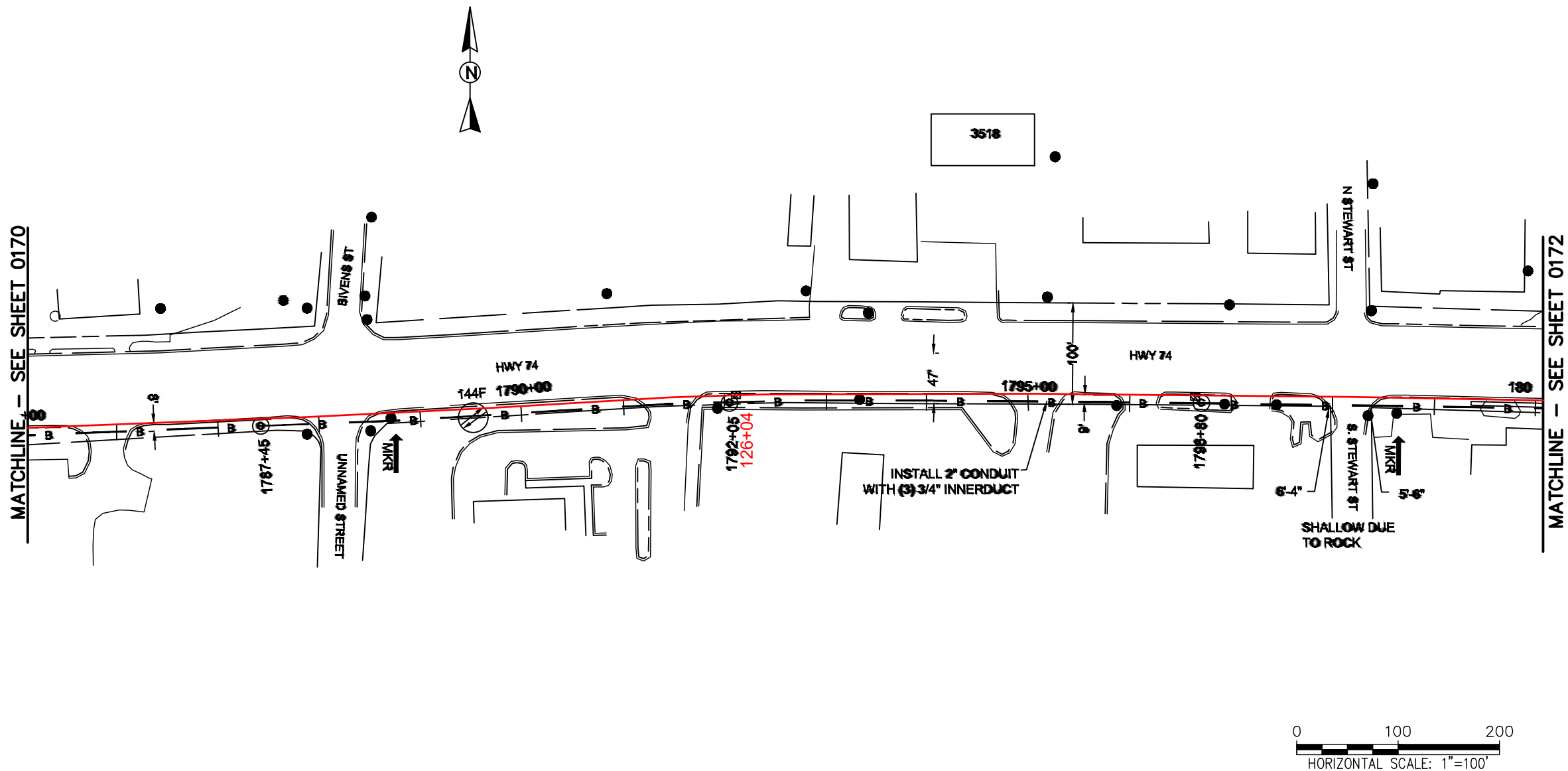


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 170 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



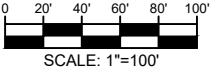


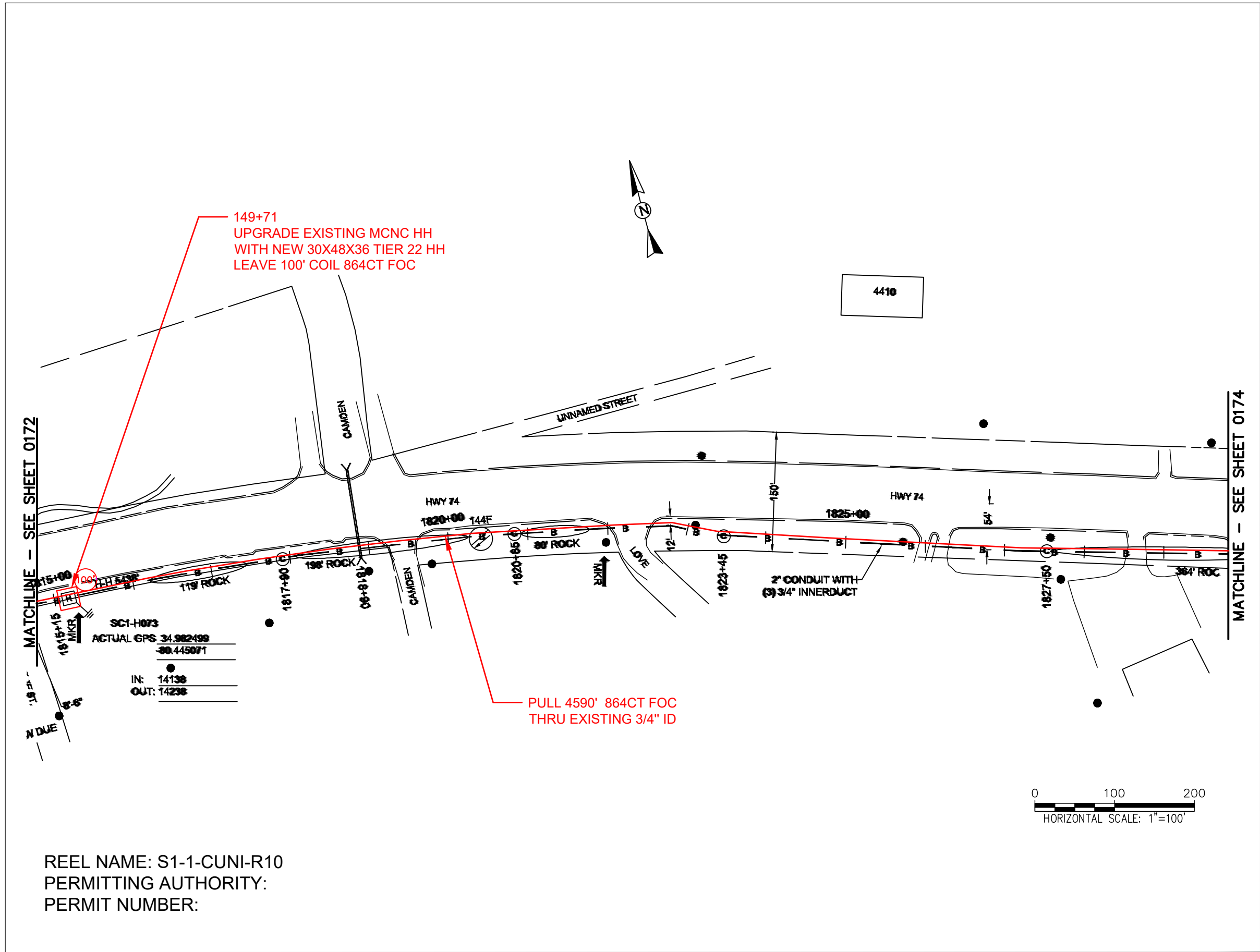
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
		
SCALE: NTS	SHEET NUMBER: 171 OF 220	
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

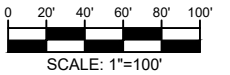


PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

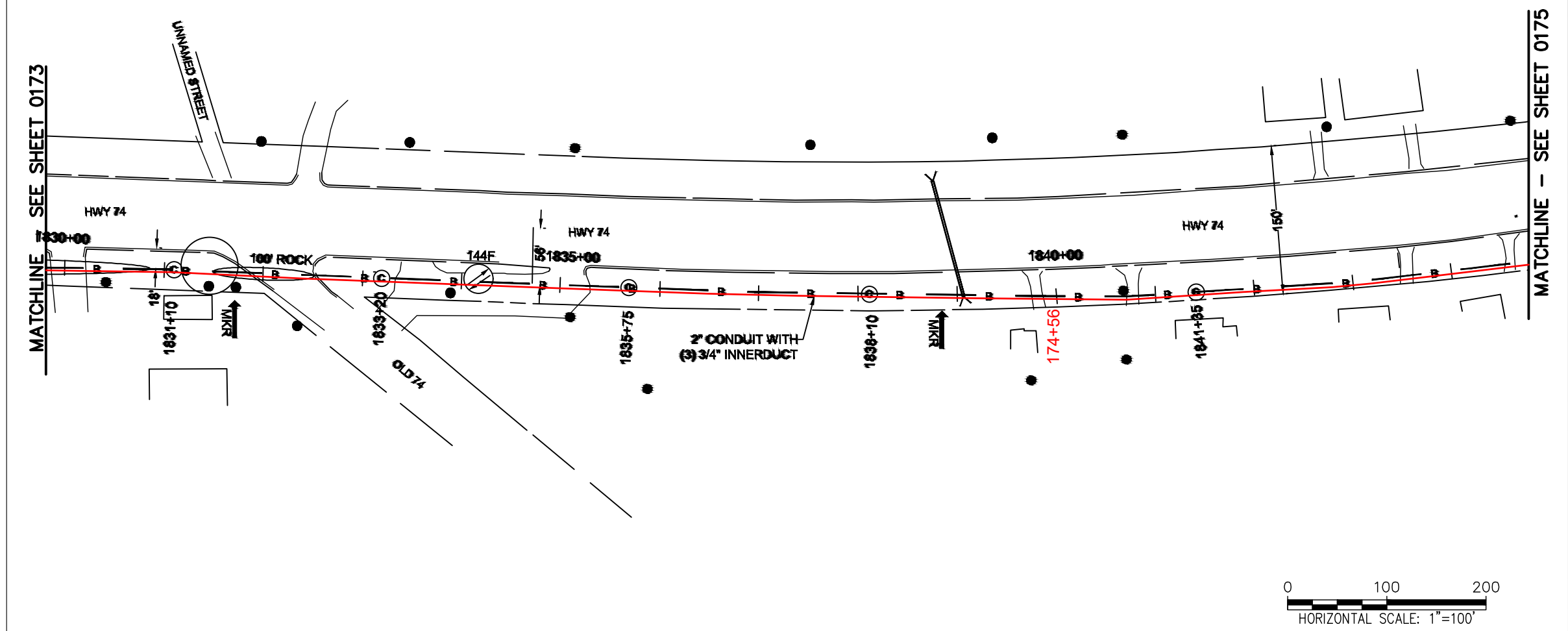
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 173 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

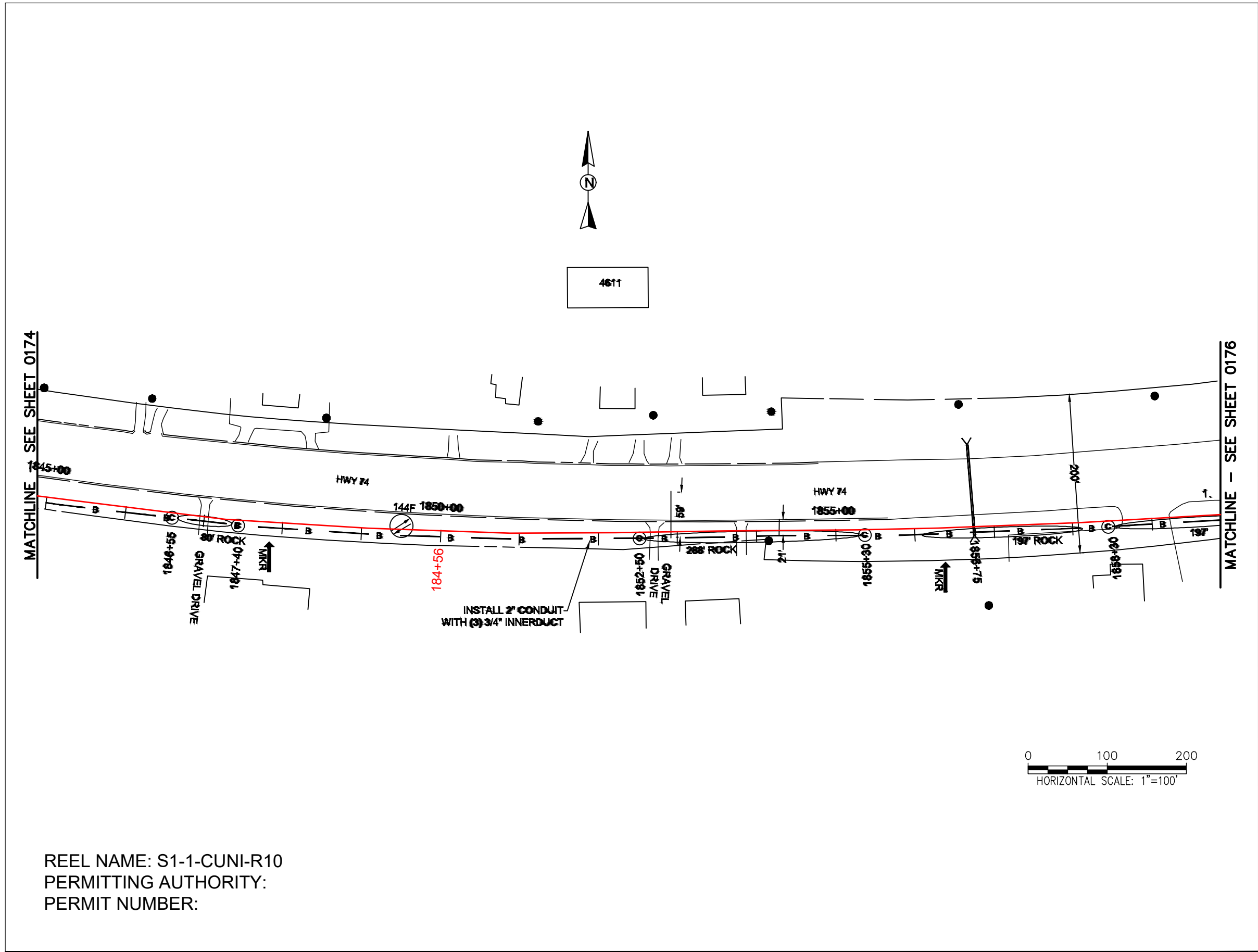
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

MCNC®

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
<div> Know what's below. Call before you dig.</div>	<div></div>
SCALE: NTS	SHEET NUMBER: 174 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CUNI-R10
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

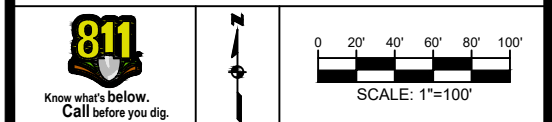
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

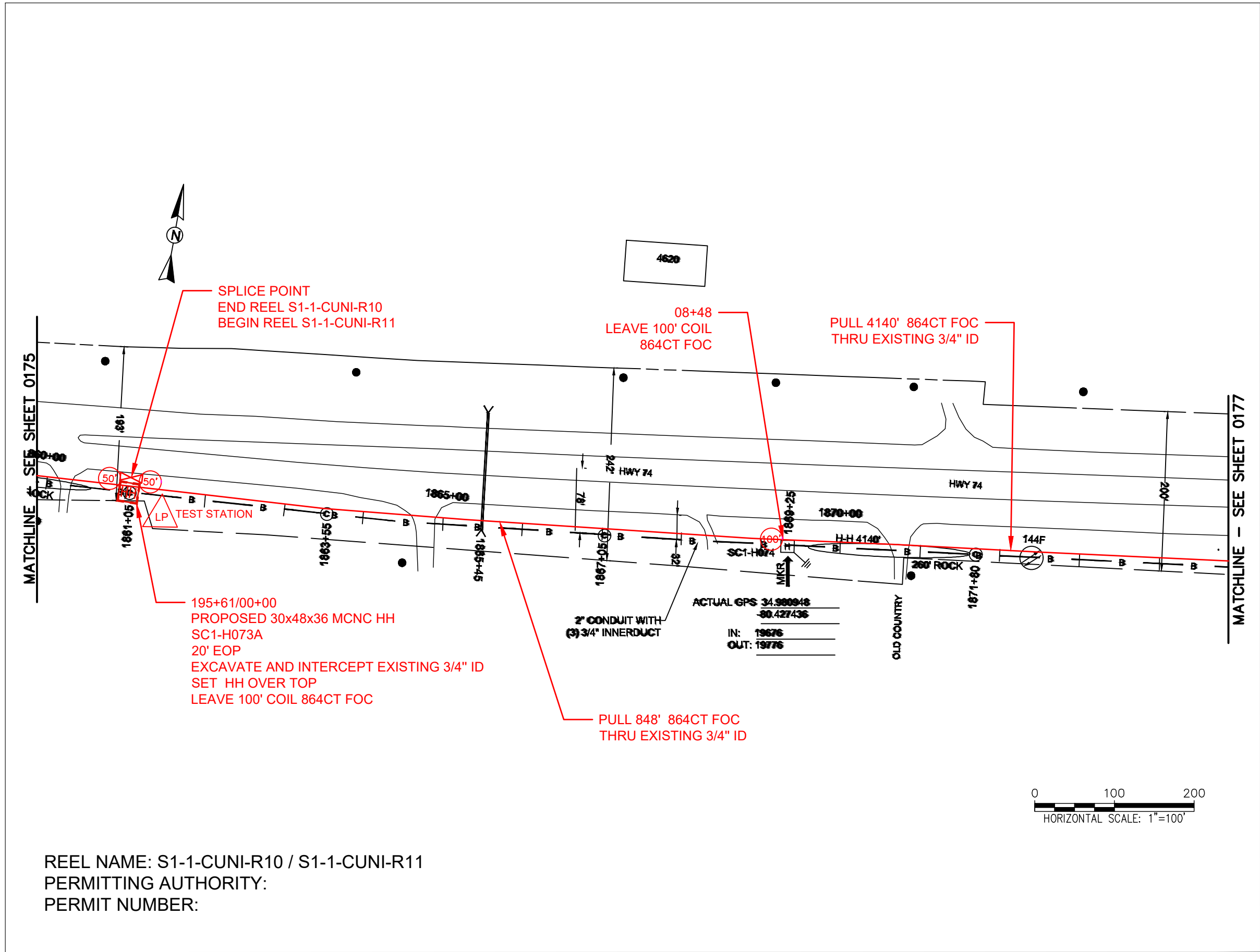


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 175 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R10 / S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:



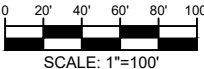
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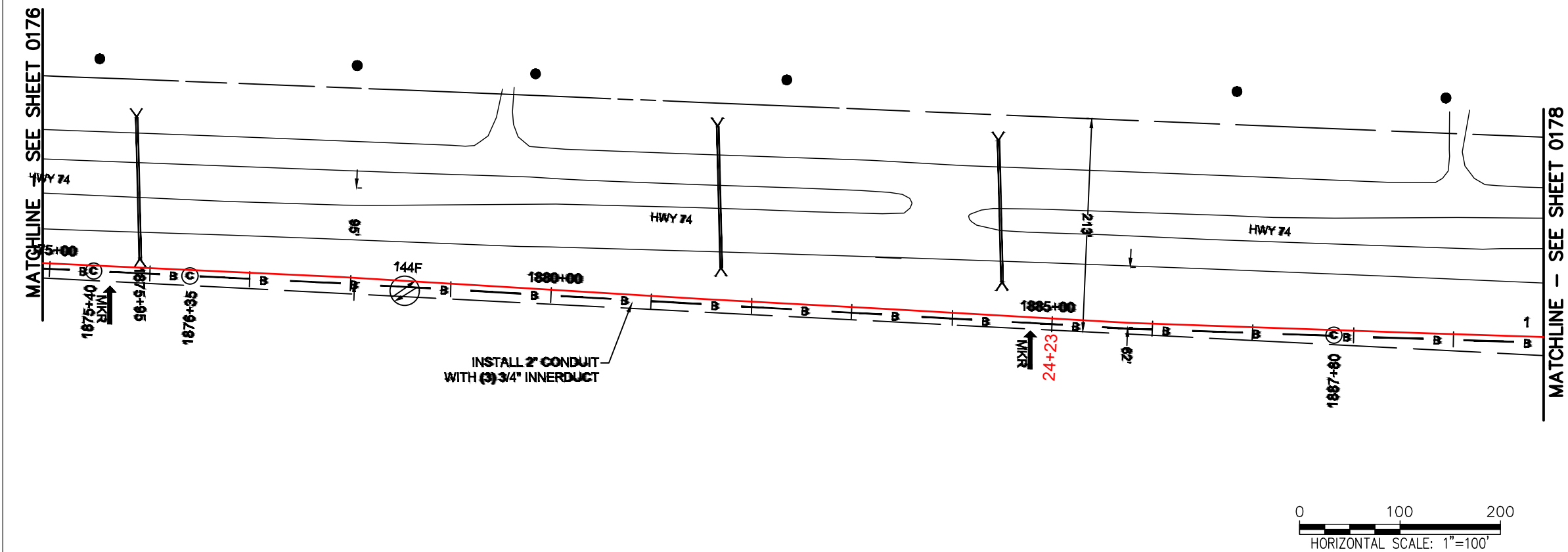
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

MCNC®

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
	
	
SCALE: NTS	SHEET NUMBER: 176 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



CONSTRUCTION NOTES:

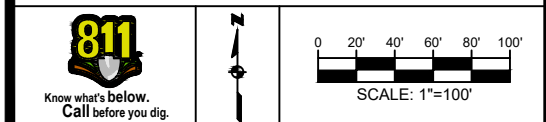
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

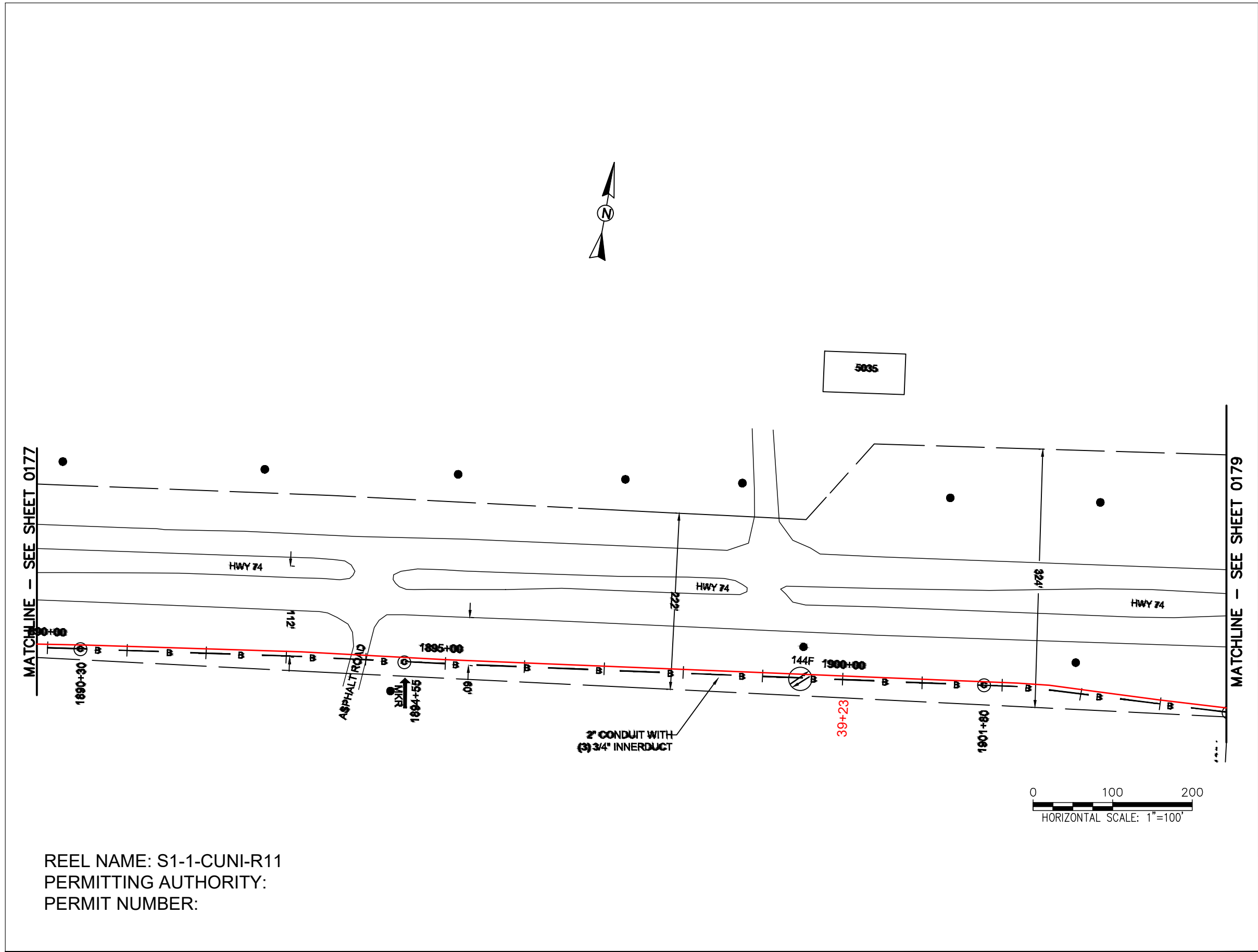


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 177 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

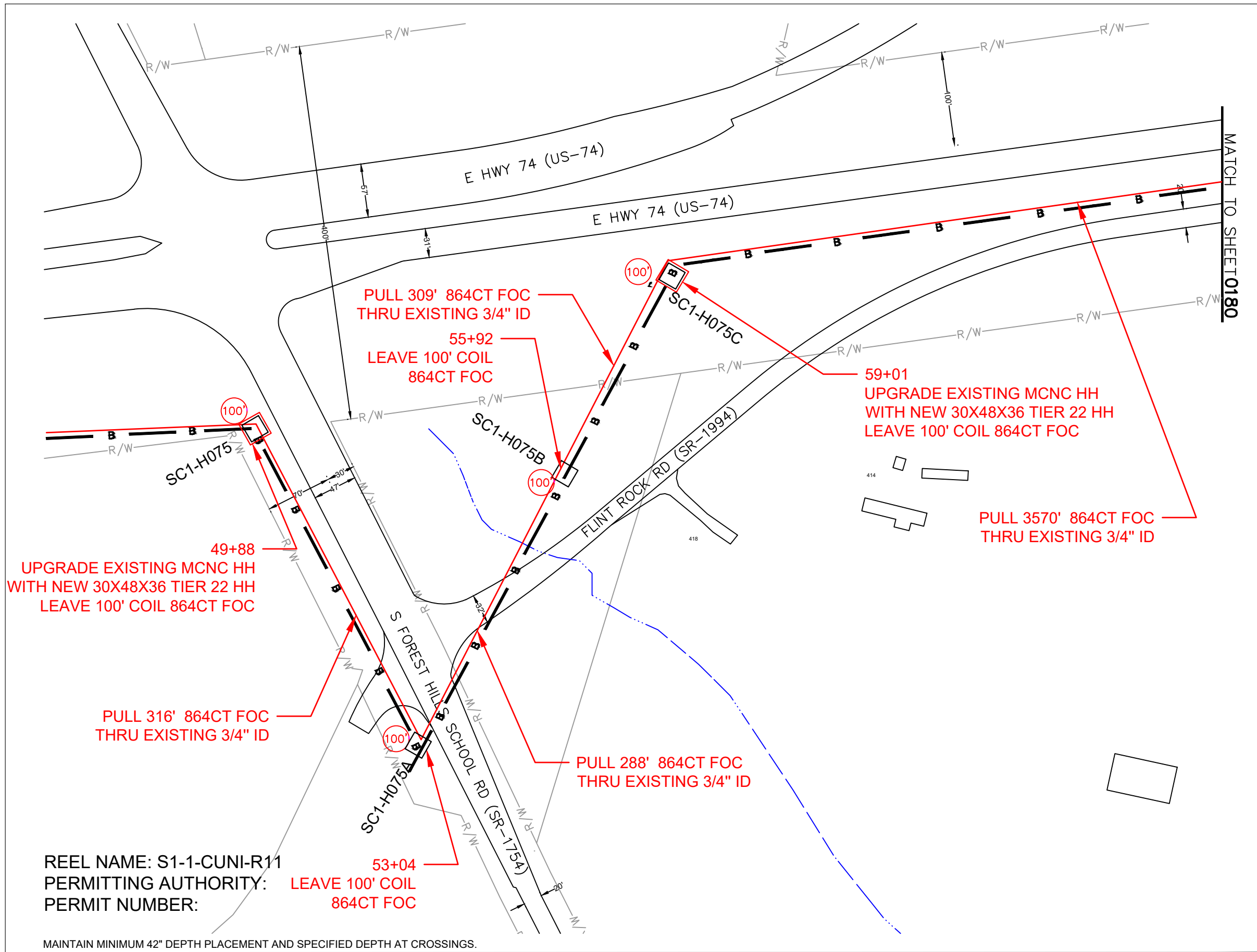
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE:	SHEET NUMBER:
NTS	178
PLOT DATE:	OF
3/24/25	220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

MAINTAIN MINIMUM 42" DEPTH PLACEMENT AND SPECIFIED DEPTH AT CROSSINGS.



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

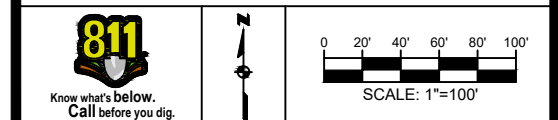
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



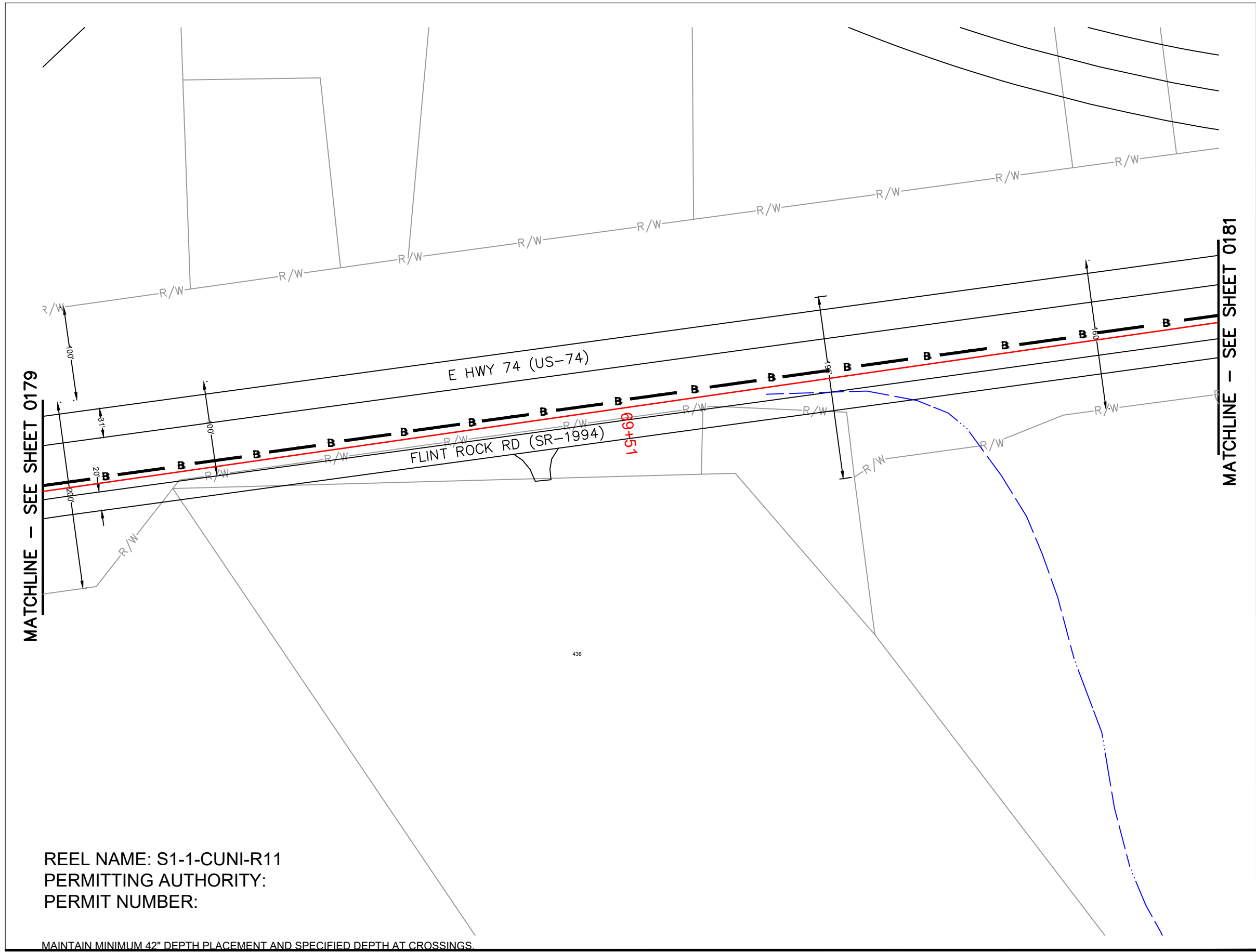
CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 179 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

MAINTAIN MINIMUM 42" DEPTH PLACEMENT AND SPECIFIED DEPTH AT CROSSINGS.



CONSTRUCTION NOTES:

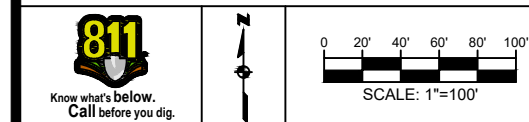
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

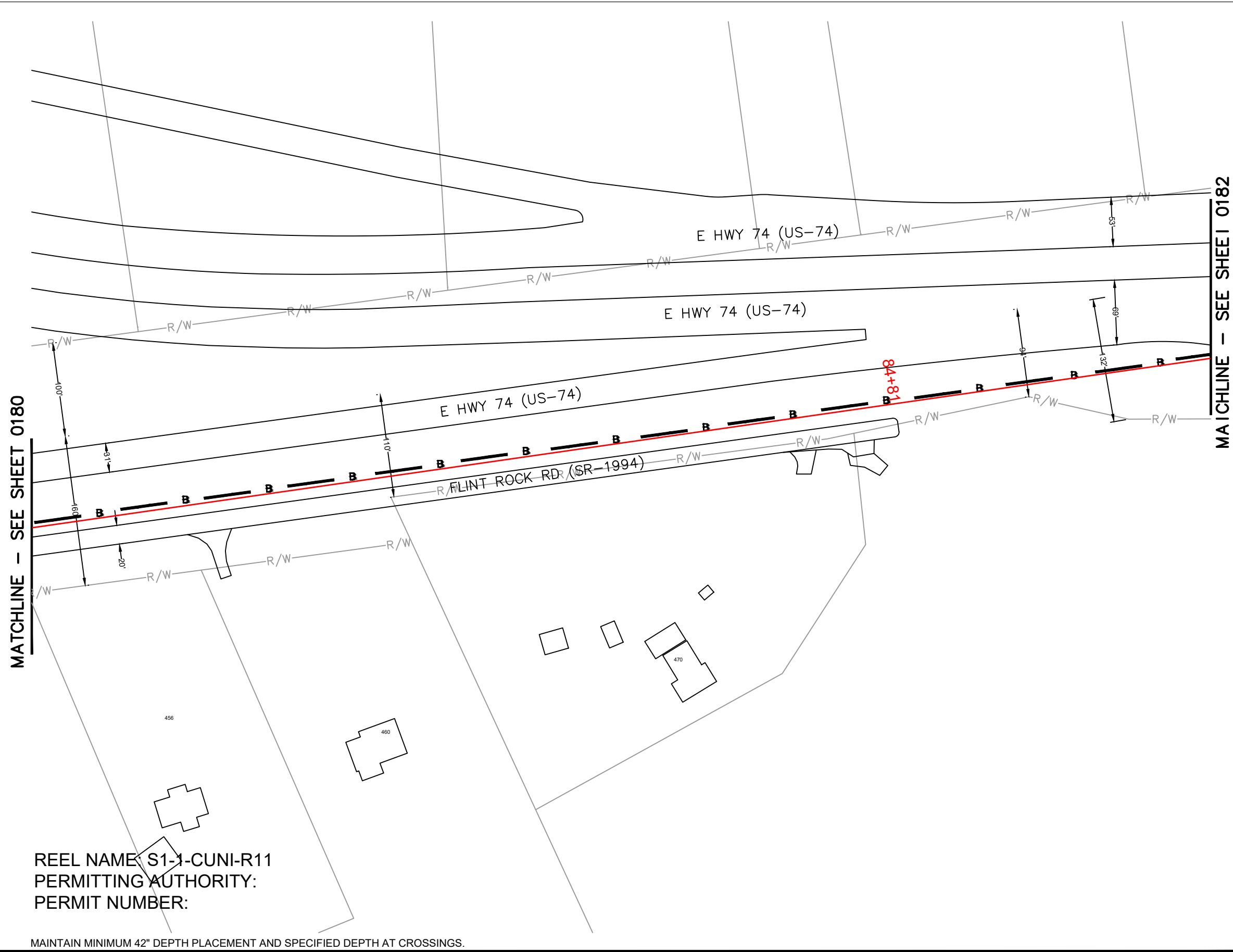


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 180 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



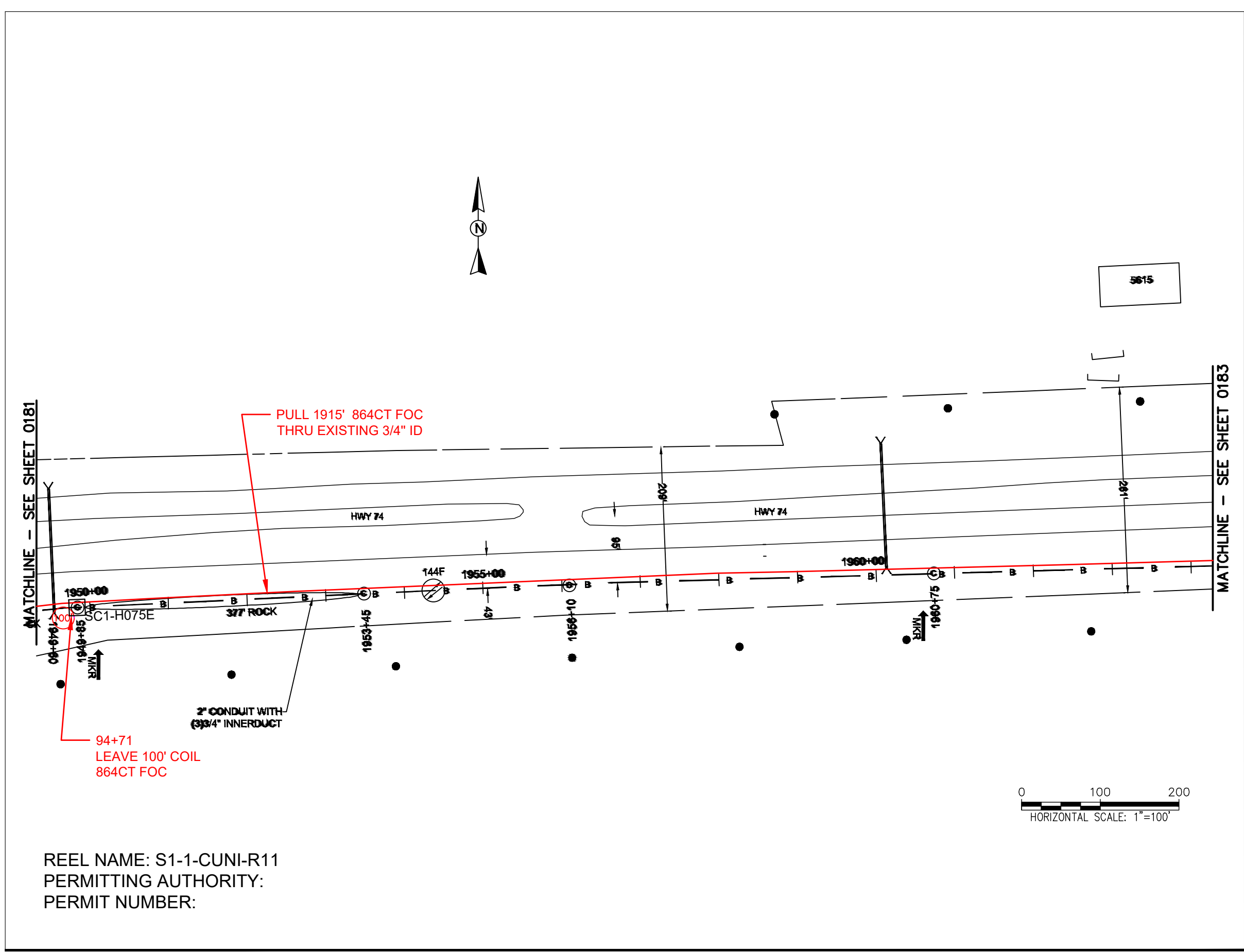
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CONFIDENTIAL AND PROPRIETARY		
CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
SCALE: NTS	SHEET NUMBER: 181 OF 220	
PLOT DATE: 3/24/25		FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

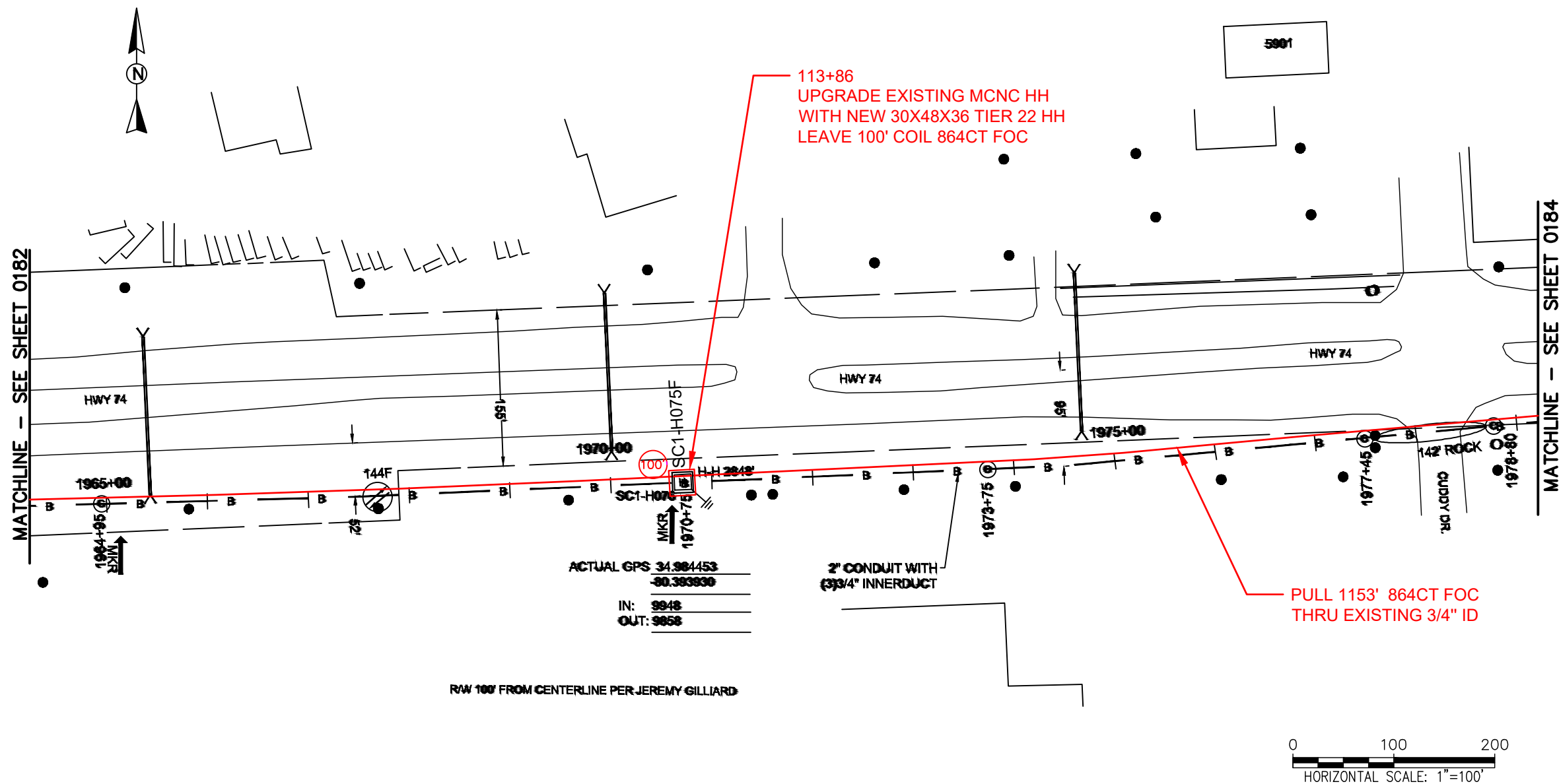
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 182 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

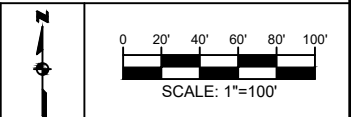


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



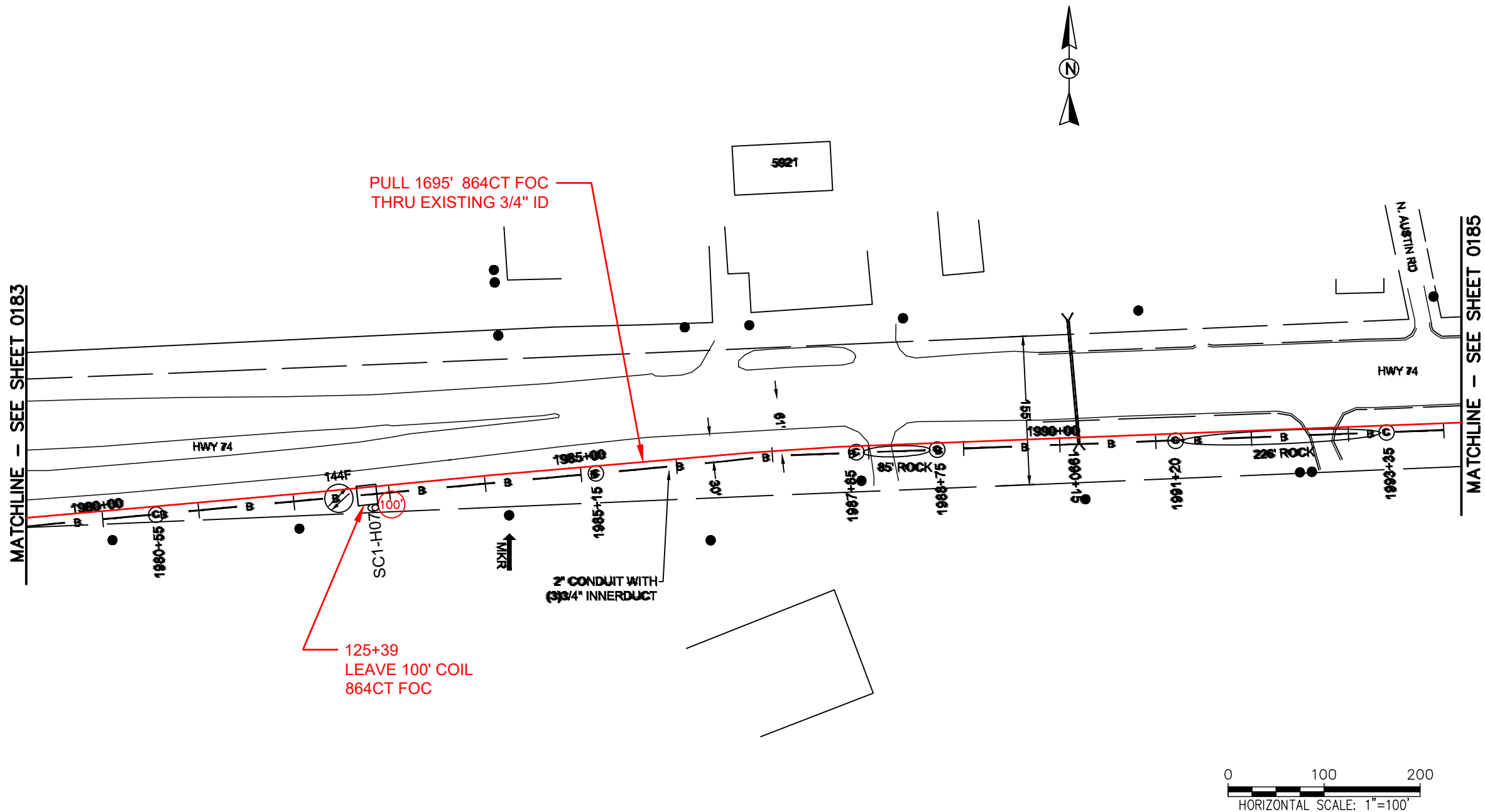
SCALE:
NTS

PLOT DATE:
3/24/25



SHEET NUMBER:
183
OF
220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

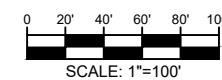
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

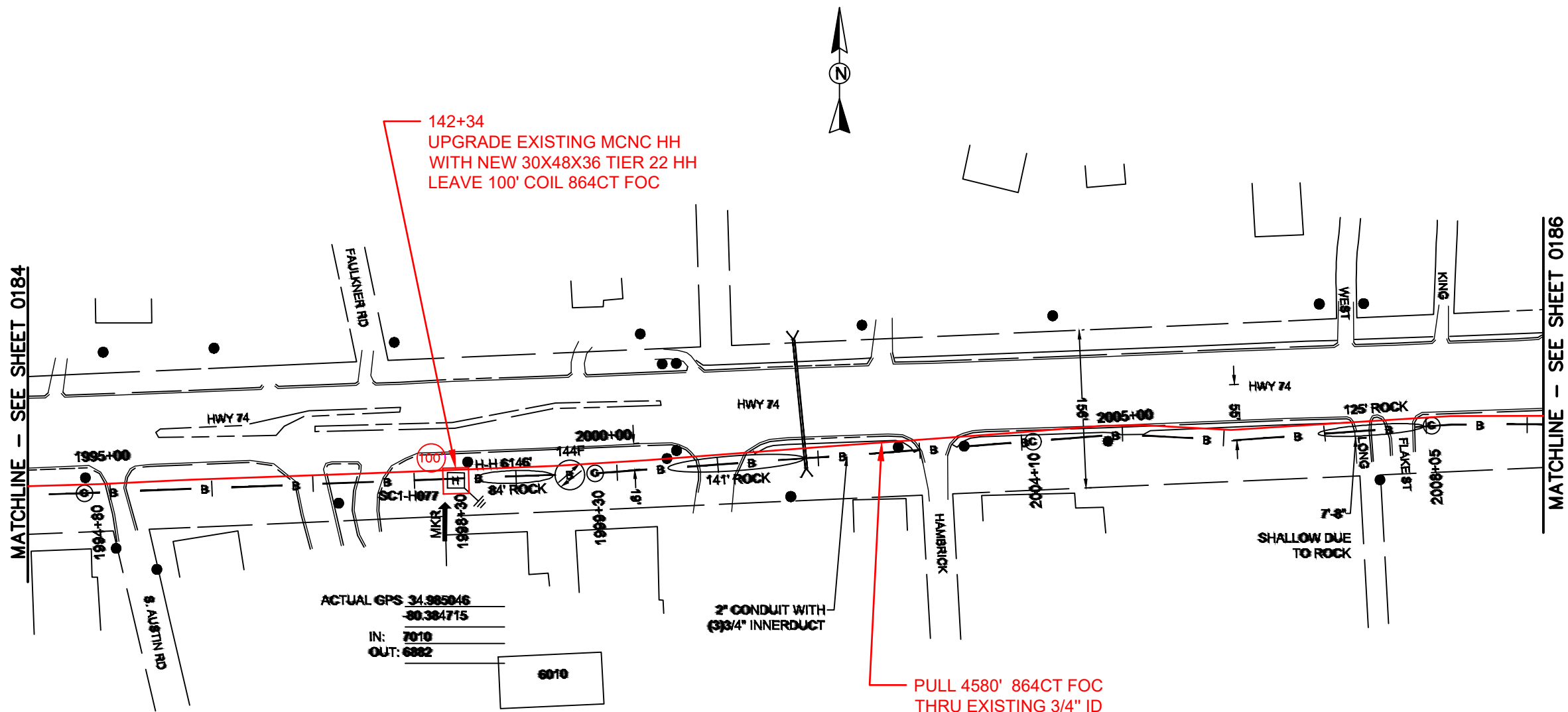


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 184 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

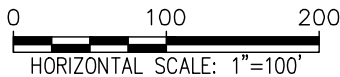


142+34
UPGRADE EXISTING MCNC HH
WITH NEW 30X48X36 TIER 22 HH
LEAVE 100' COIL 864CT FOC

PULL 4580' 864CT FOC
THRU EXISTING 3/4" ID

ACTUAL GPS 34.985046
-80.384715
IN: 7010
OUT: 6862

2" CONDUIT WITH
(3/4" INNERDUCT



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

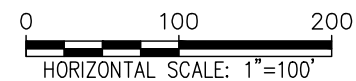
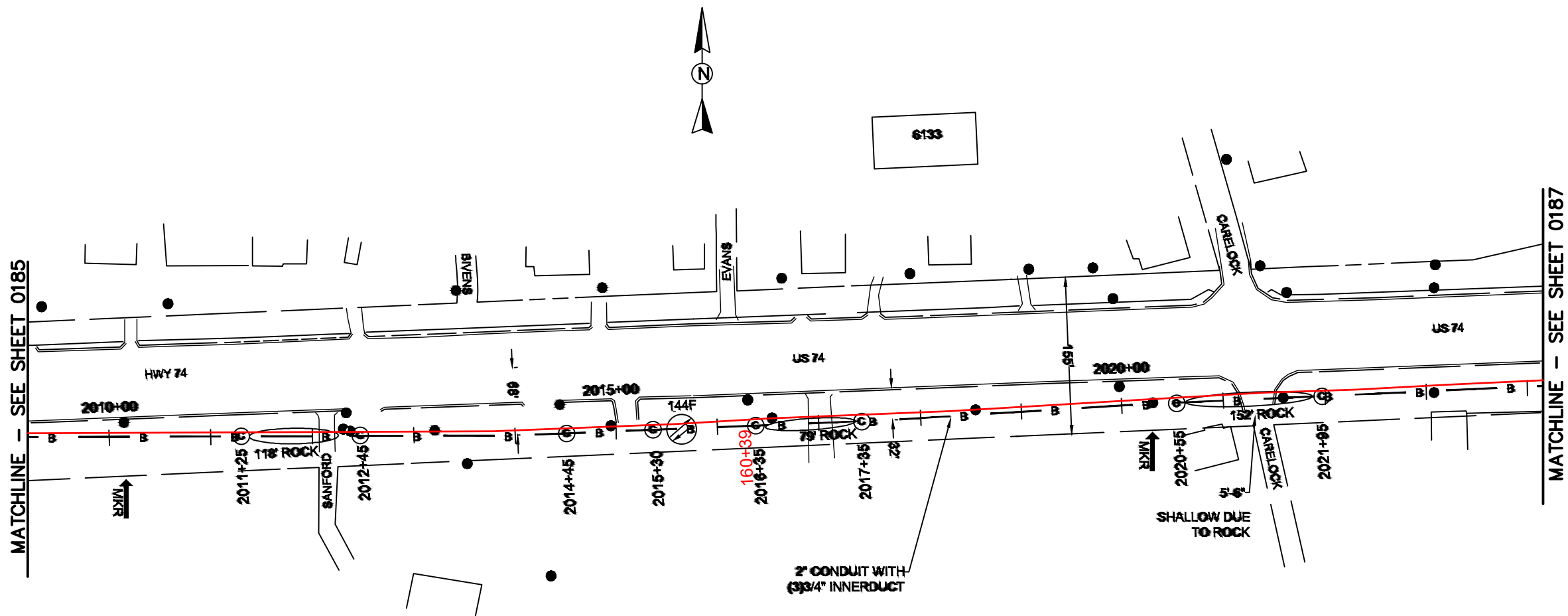
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE:	SHEET NUMBER:	
NTS	185	
PLOT DATE:	OF	
3/24/25	220	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

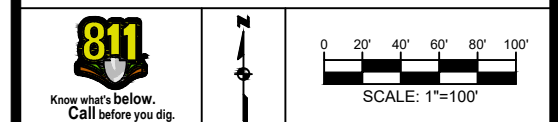
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

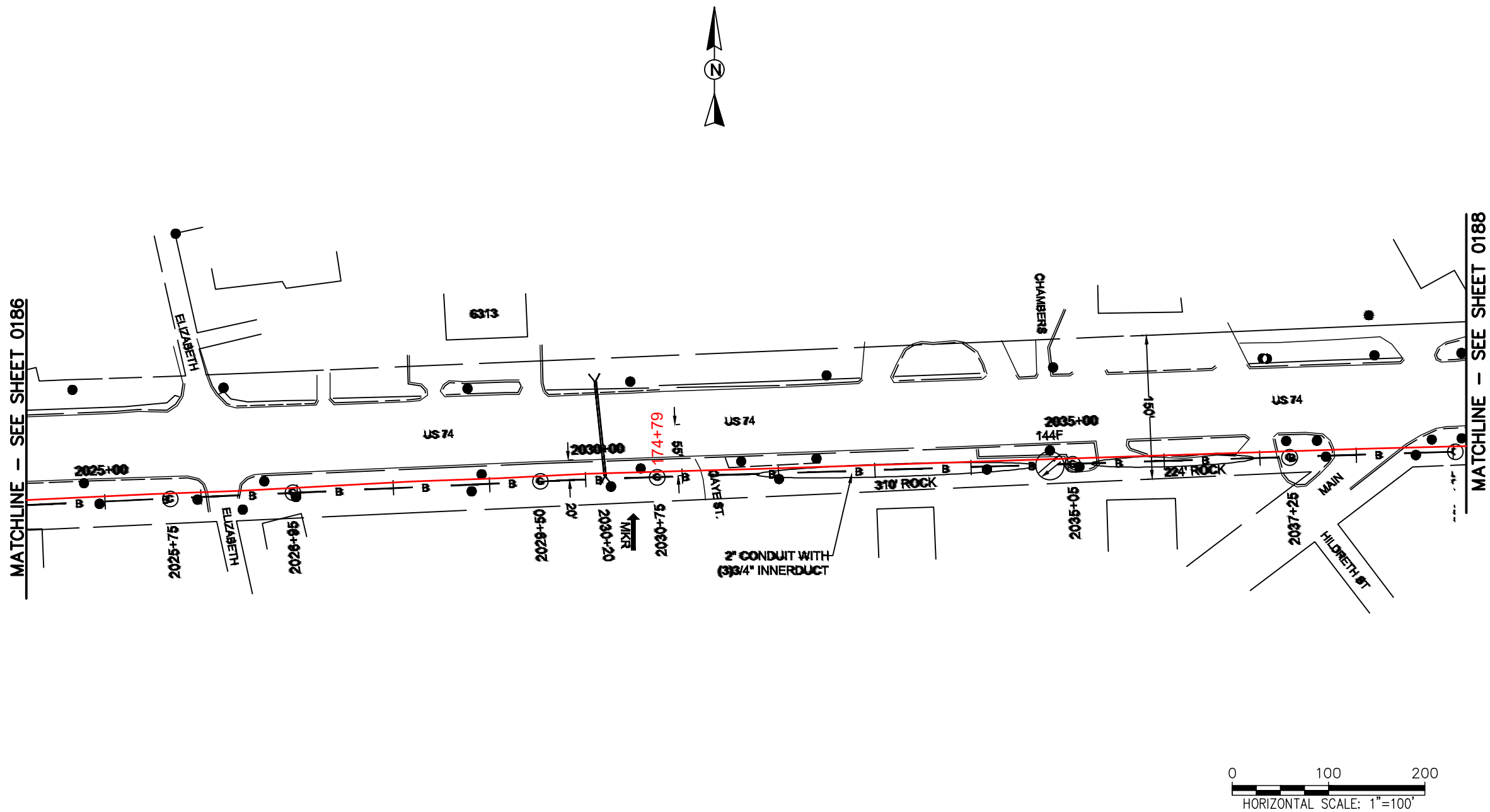


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 186 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11
PERMITTING AUTHORITY:
PERMIT NUMBER:



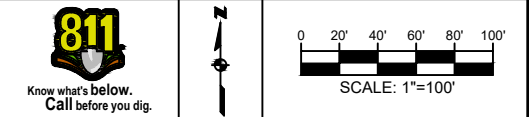
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

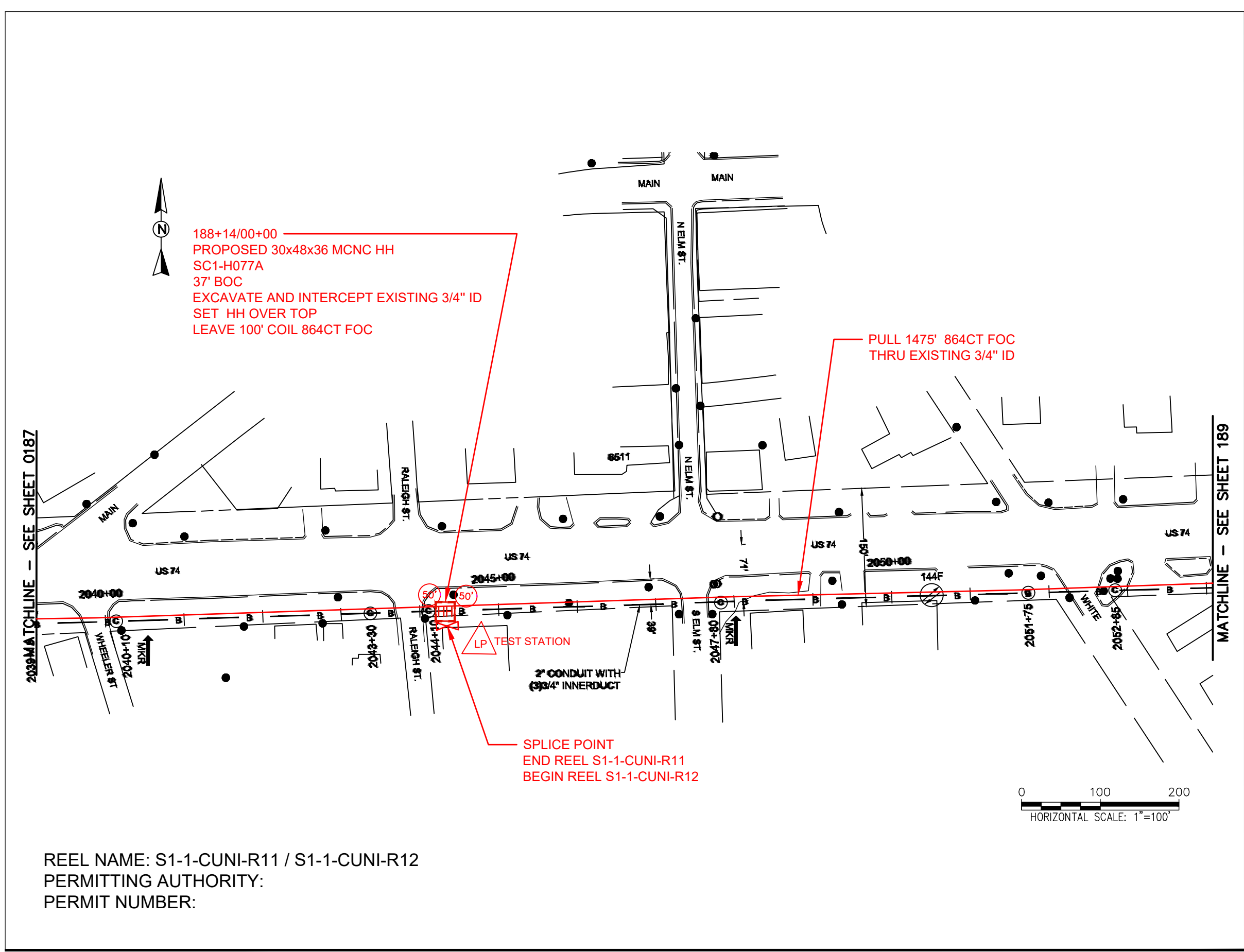


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 187 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R11 / S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

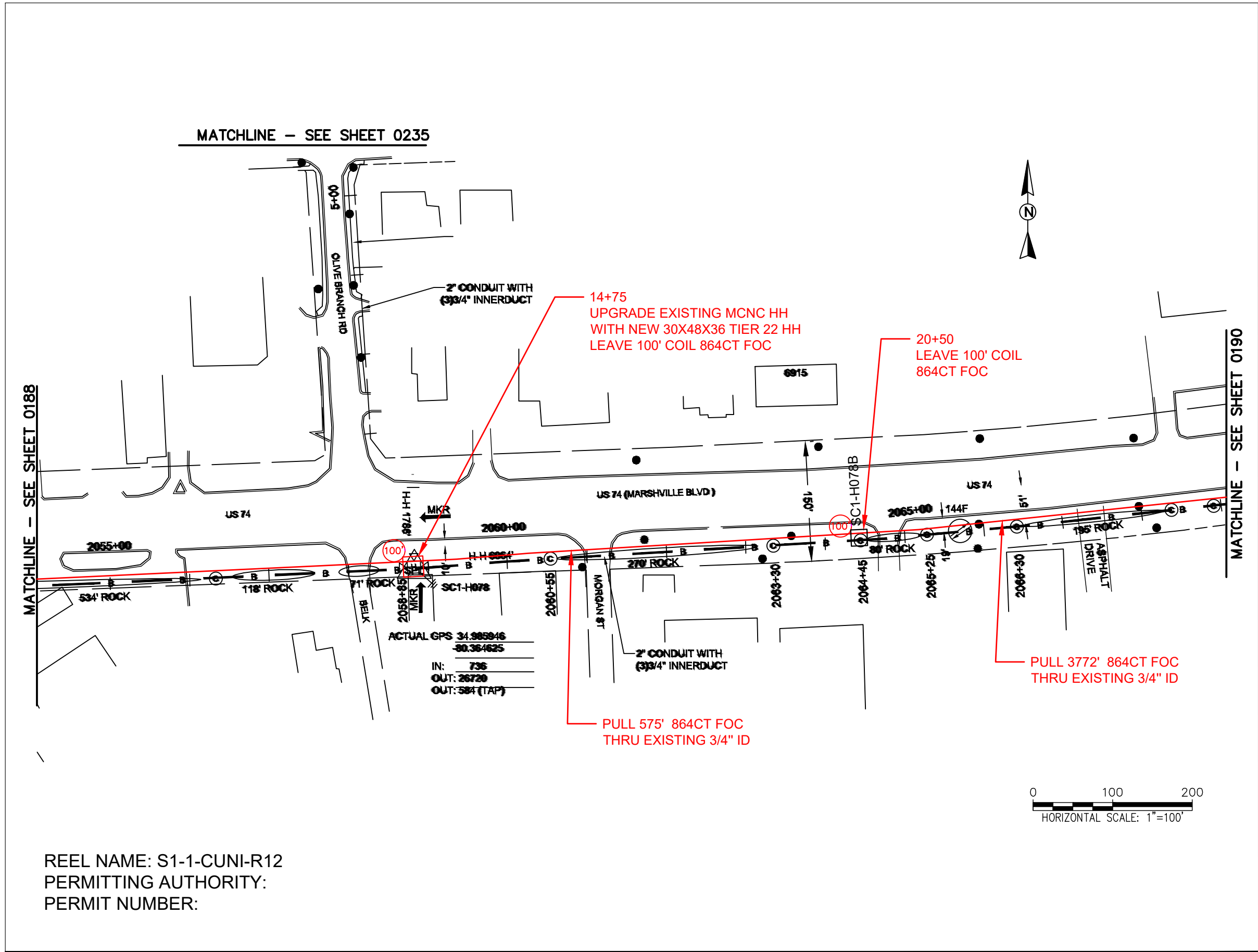
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 188 OF 220
PLOT DATE: 3/24/25	



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS AT BOTTOM UNDER ALL PRE-EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY




CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1


JOB LOCATION: CHARLOTTE-POLKTON

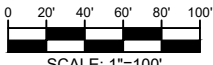
DESIGNER:
R.B.

DATE: 3/24/25



Know what's below.
Call before you dig.

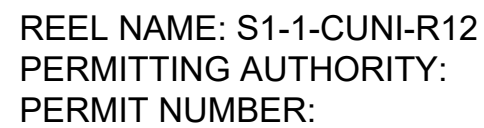




0 20' 40' 60' 80' 100'

SCALE: 1"=100'

SCALE: NTS	SHEET NUMBER: 189 OF 220
PLOT DATE: 3/24/25	



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



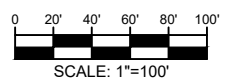
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE:

NTS

PLOT DATE:

3/24/25

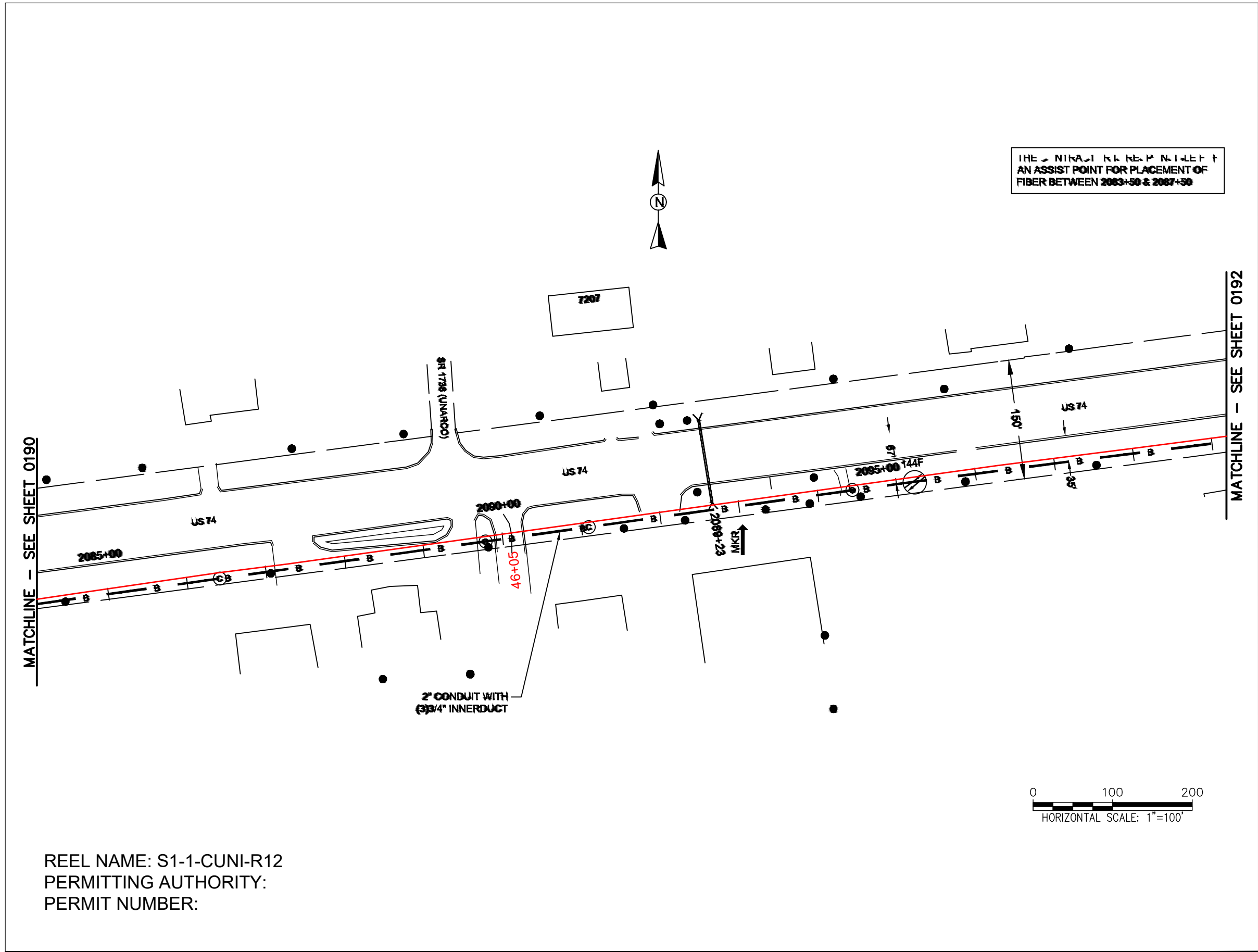
SHEET NUMBER:

190

OF

220

FILE NAME: SC-1 (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

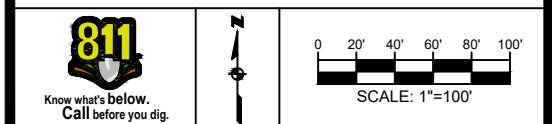
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

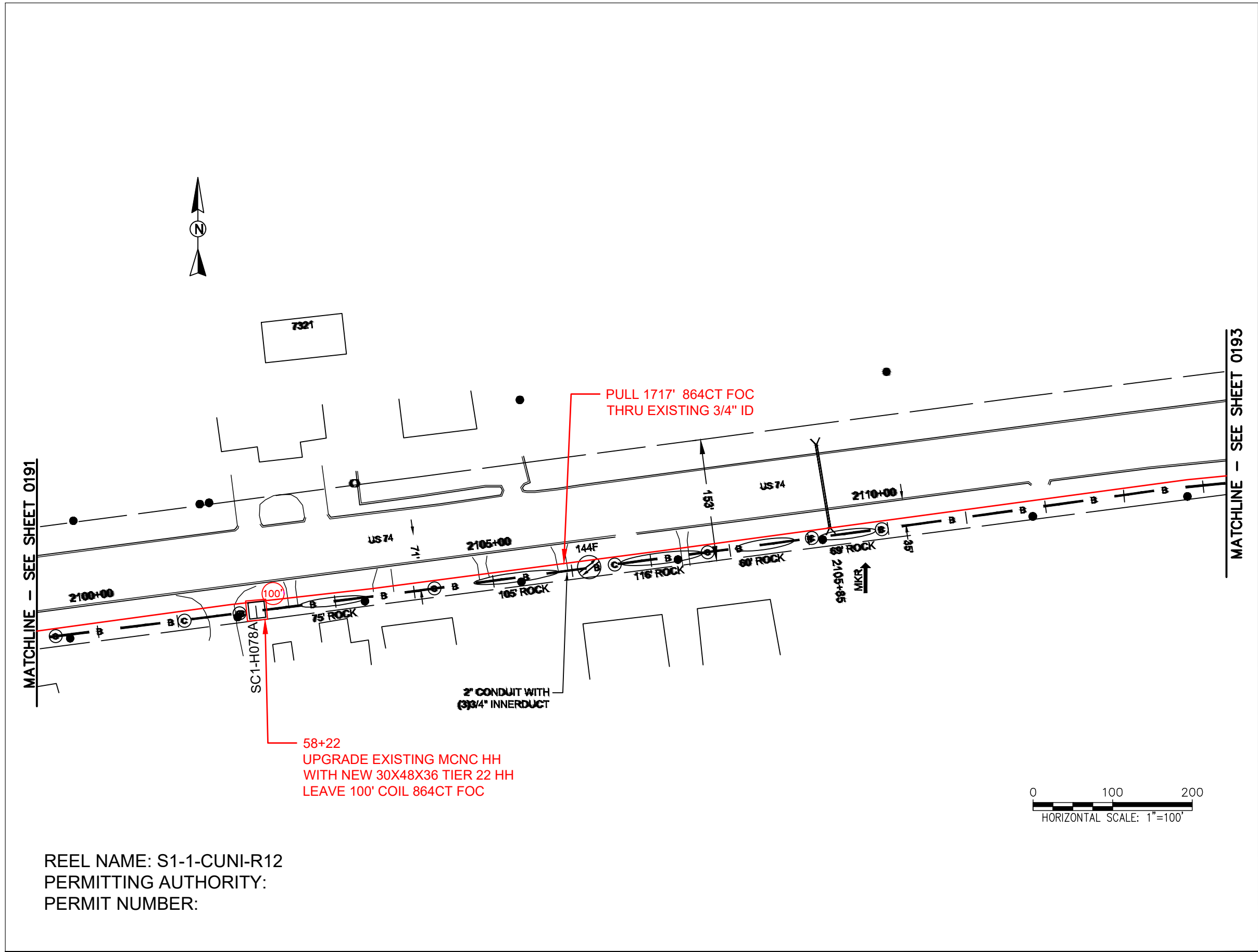


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 191 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:

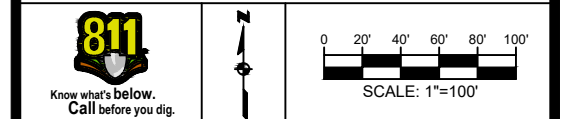
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

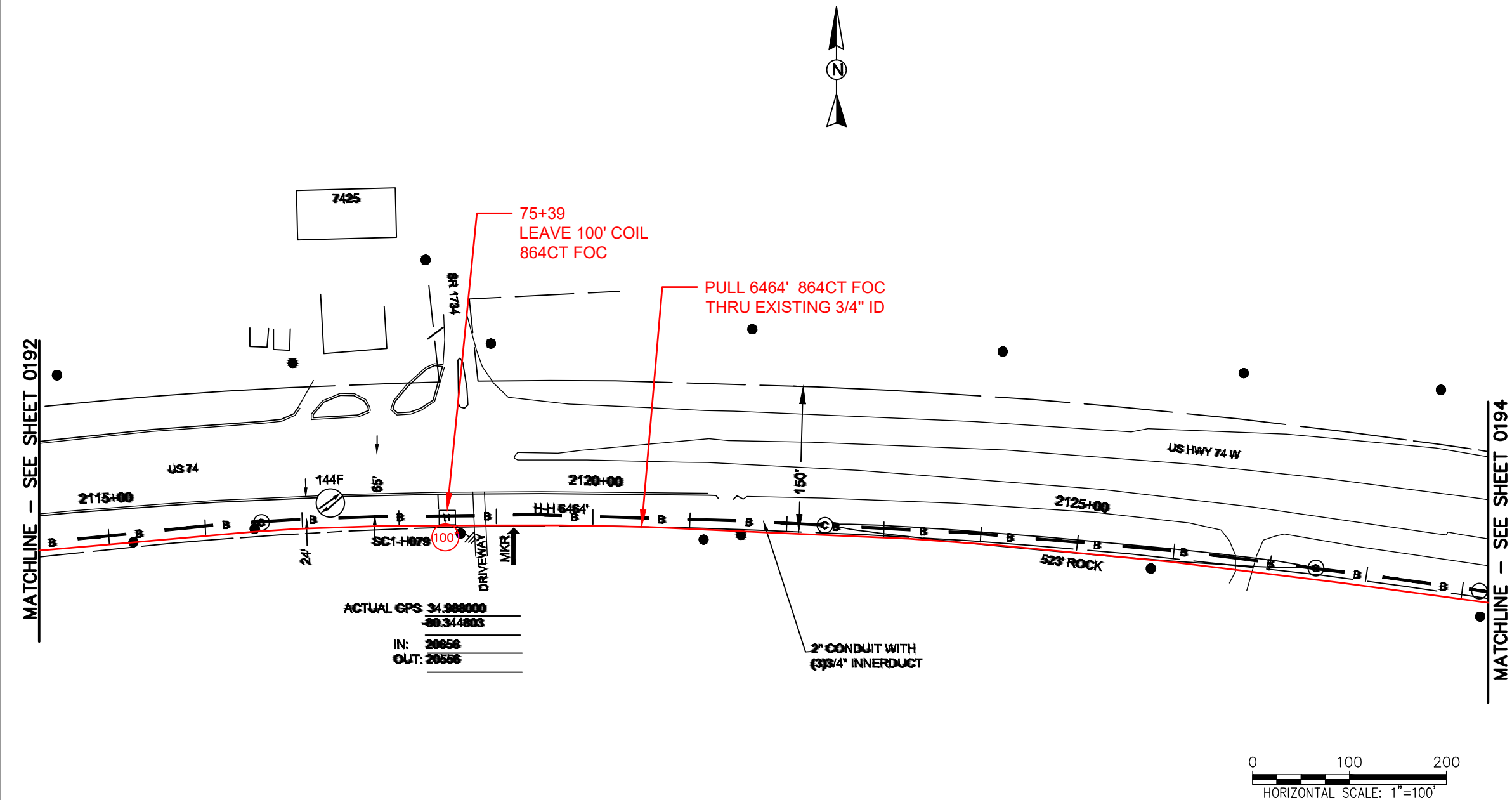


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 192
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

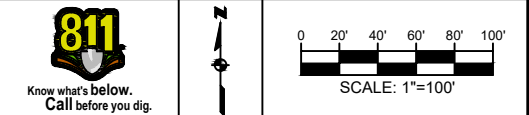
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

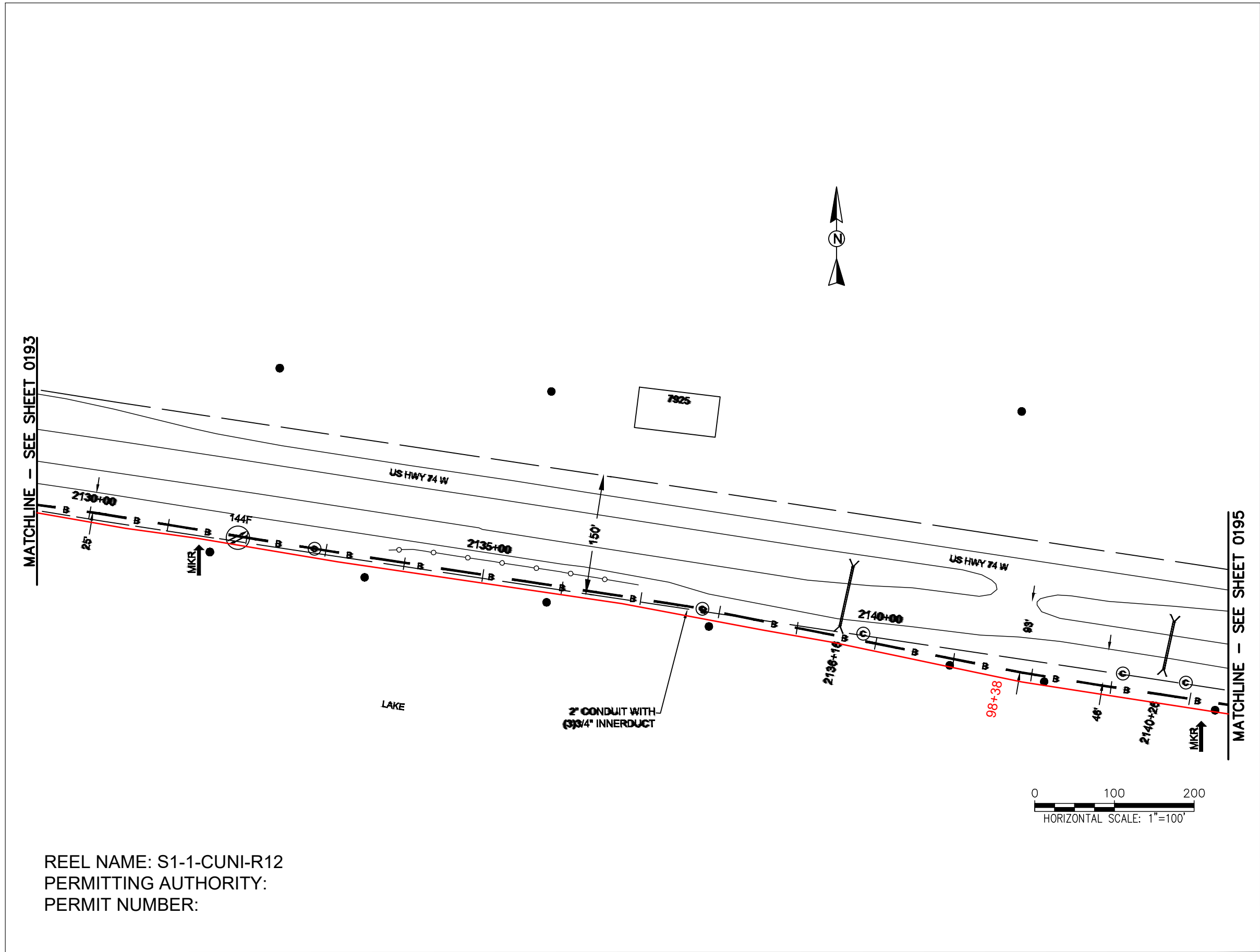


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25

SHEET NUMBER:
193
OF
220



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:



PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

MCNC®

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 194 OF 220
PLOT DATE: 3/24/25	

CONSTRUCTION NOTES:

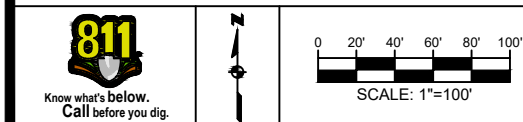
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



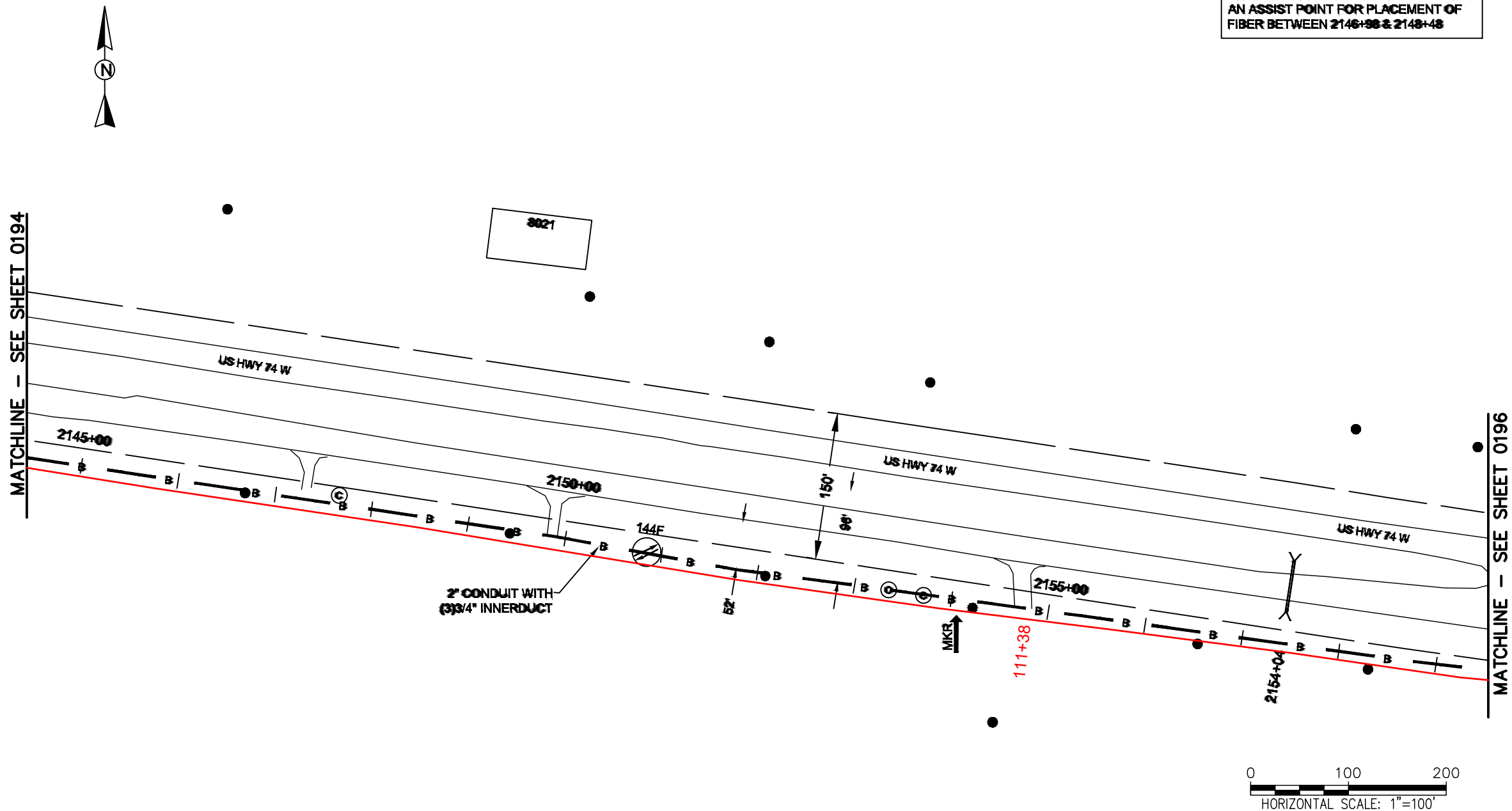
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MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



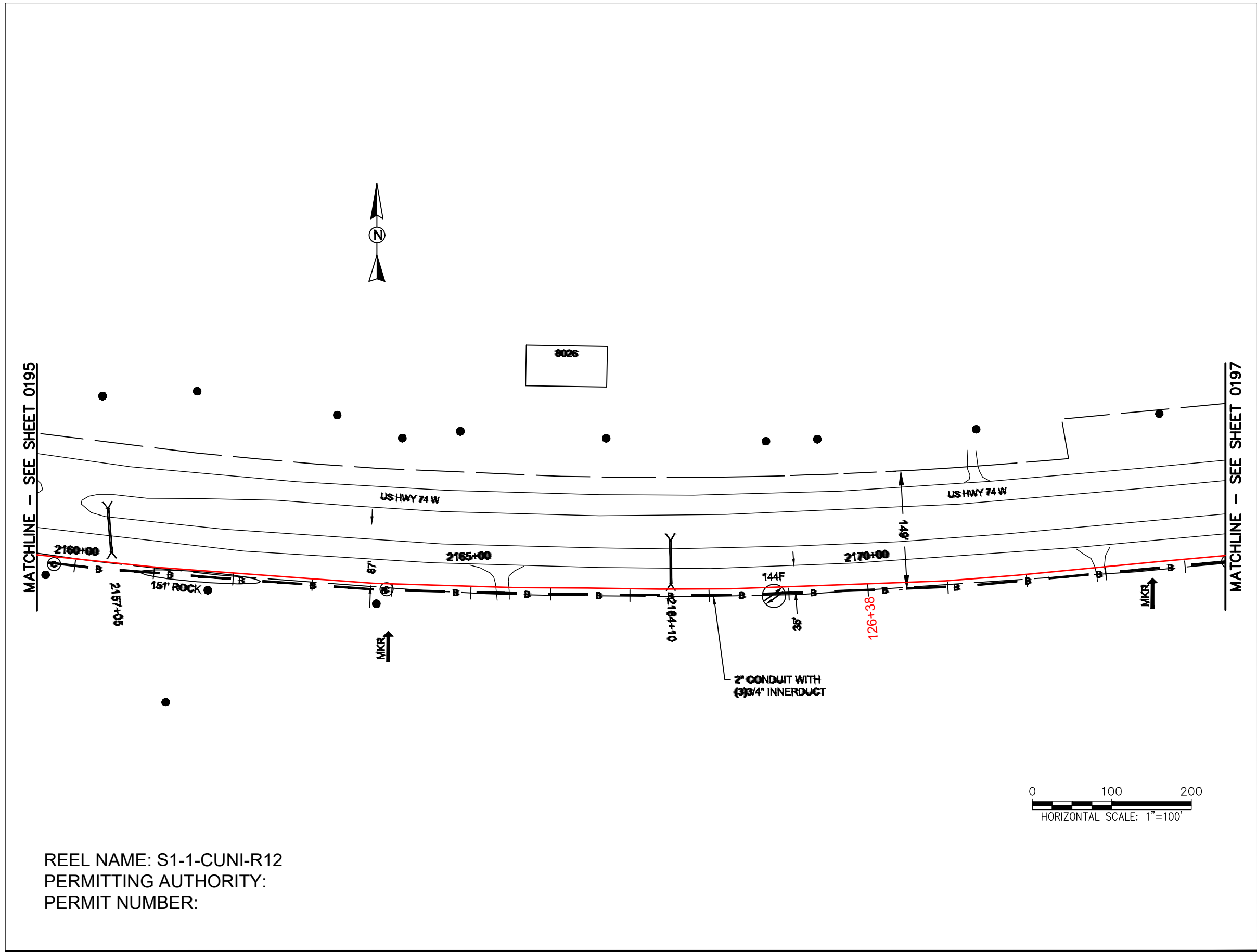
SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 195
OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

THE CONTRACTOR IS RESPONSIBLE FOR
AN ASSIST POINT FOR PLACEMENT OF
FIBER BETWEEN 2146+98 & 2148+48



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:



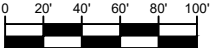


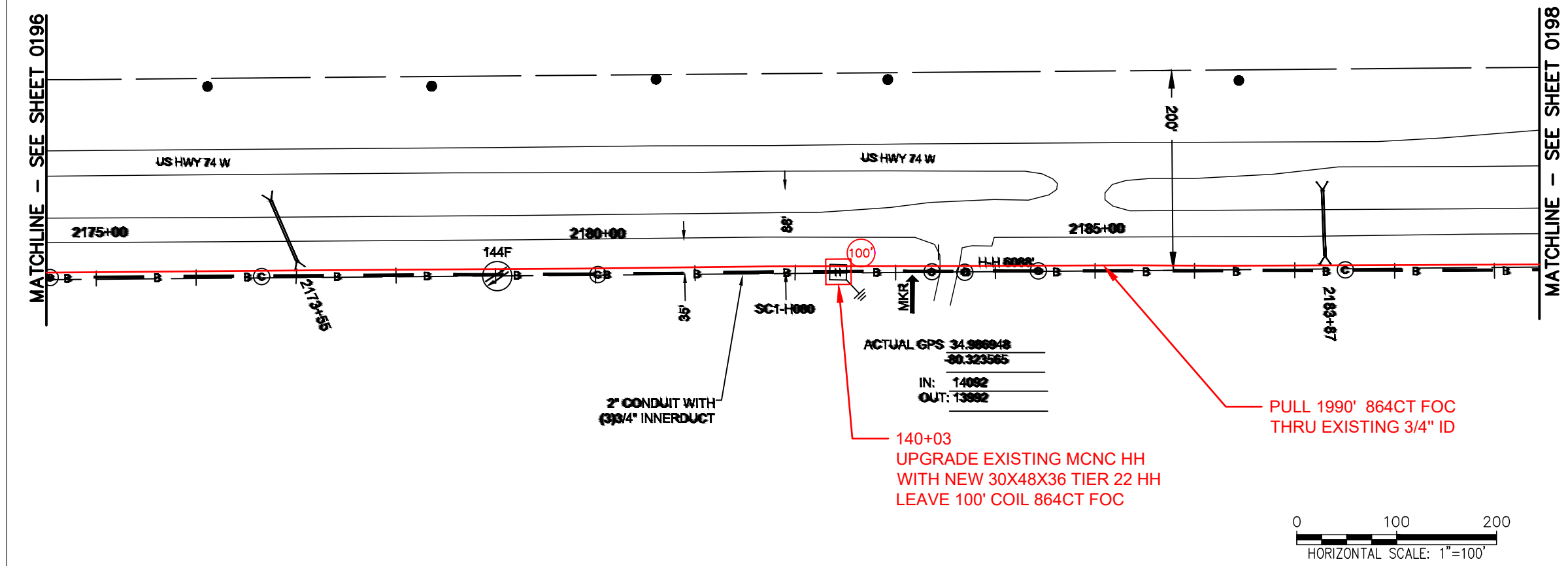
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



CLIENT: MCNC		
JOB TITLE: SEGMENT 1 ROUTE 1		
JOB LOCATION: CHARLOTTE-POLKTON		
DESIGNER: R.B.		
DATE: 3/24/25		
 Know what's below. Call before you dig.		 SCALE: 1"=100'
SCALE: NTS		SHEET NUMBER: 196 OF 220
PLOT DATE: 3/24/25		
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg		



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

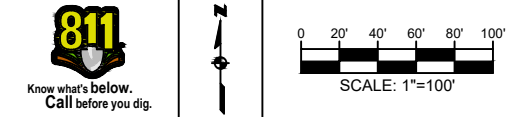
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

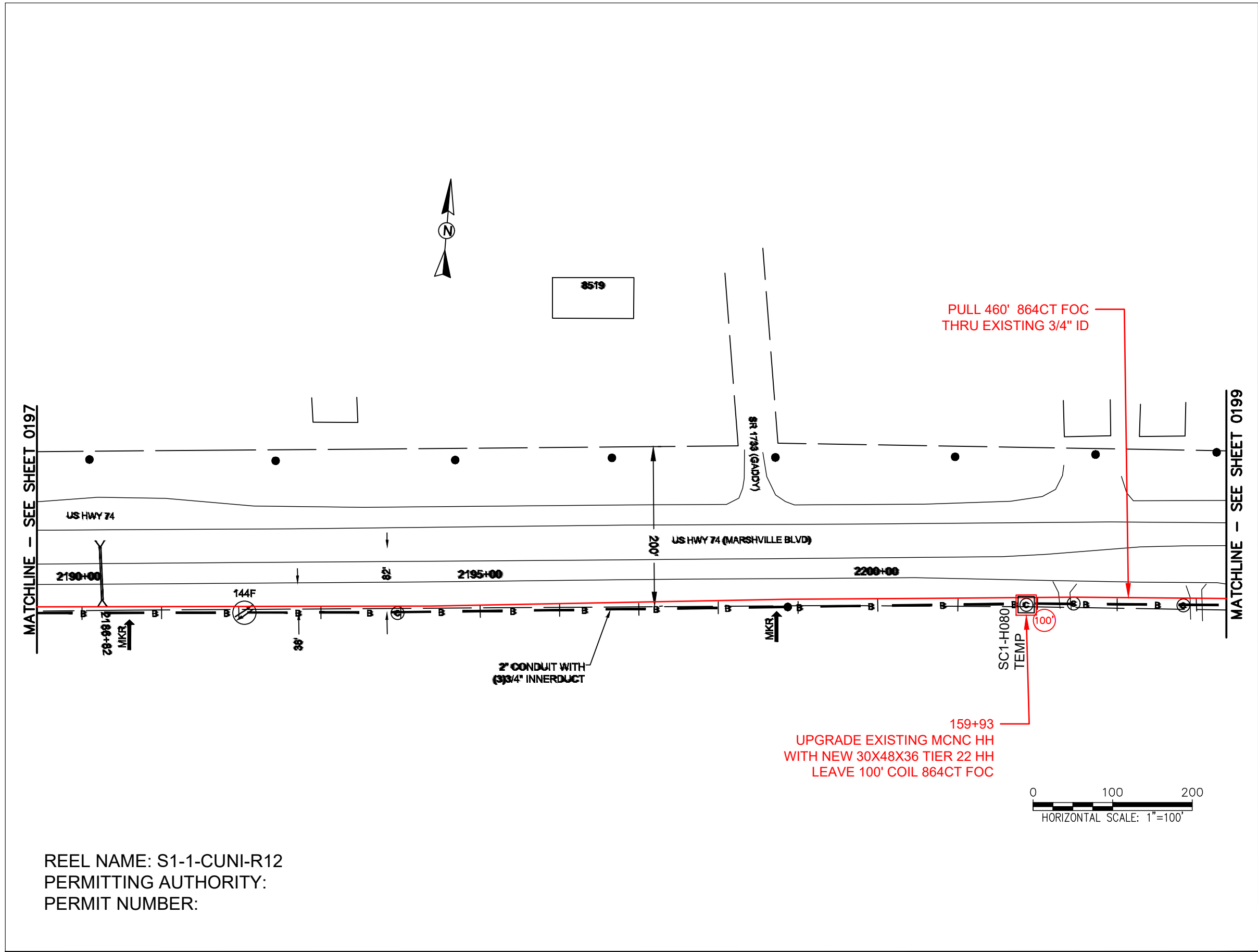


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 197 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

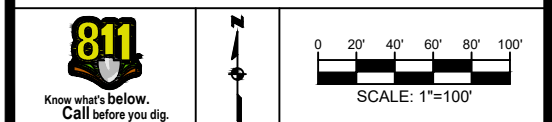
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

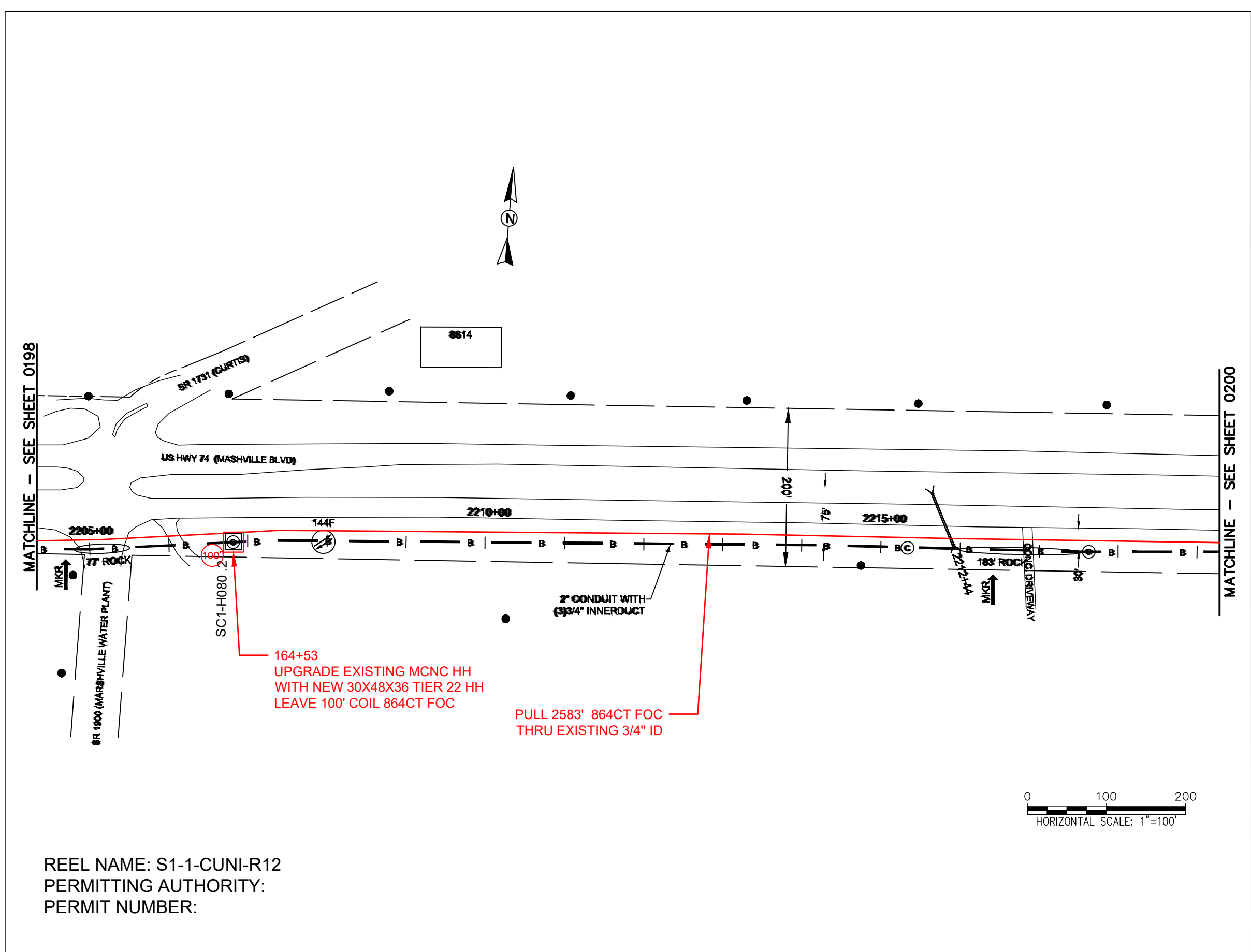


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 198 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CUNI-R12
PERMITTING AUTHORITY:
PERMIT NUMBER:

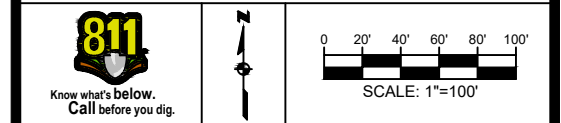
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

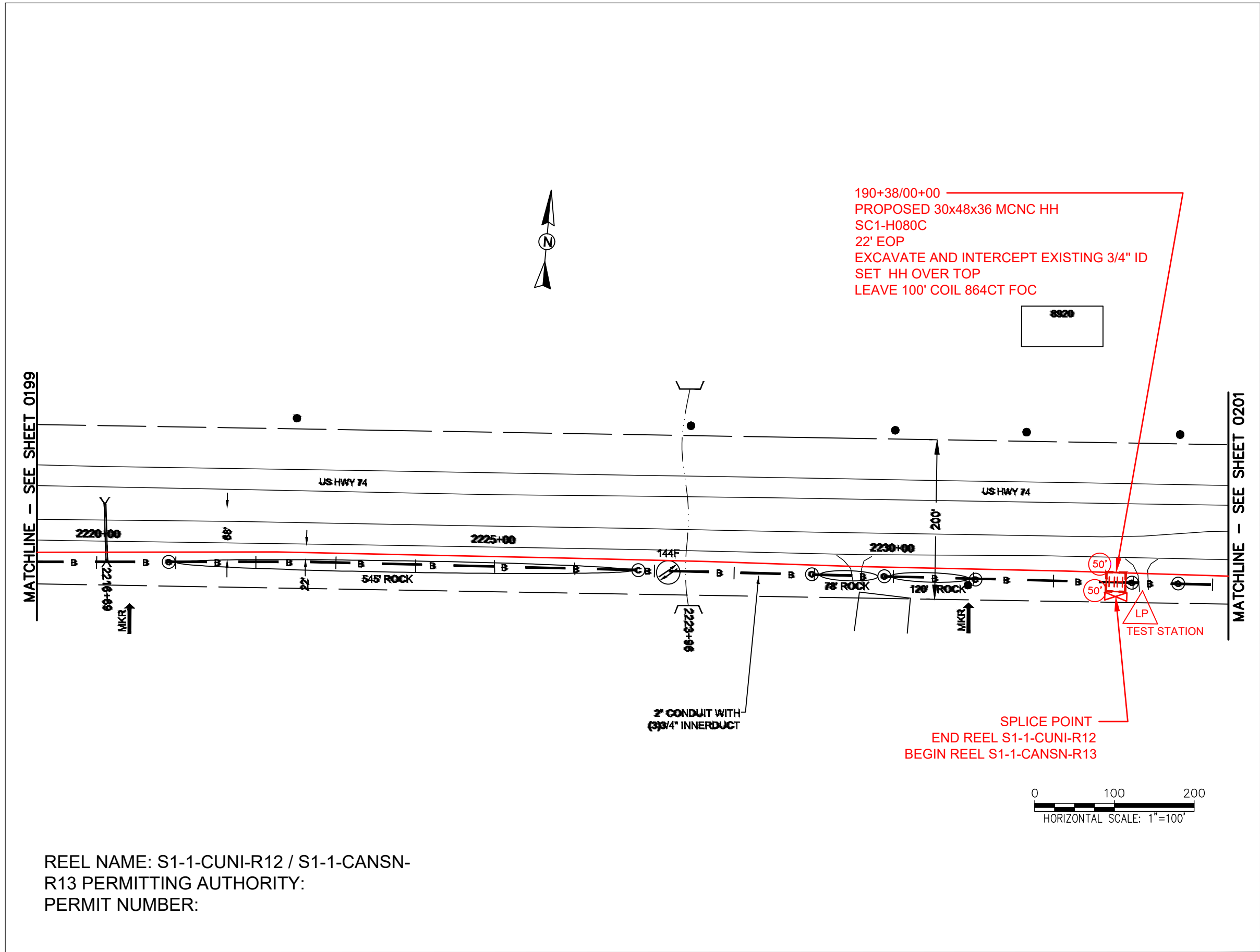
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 199
OF 220





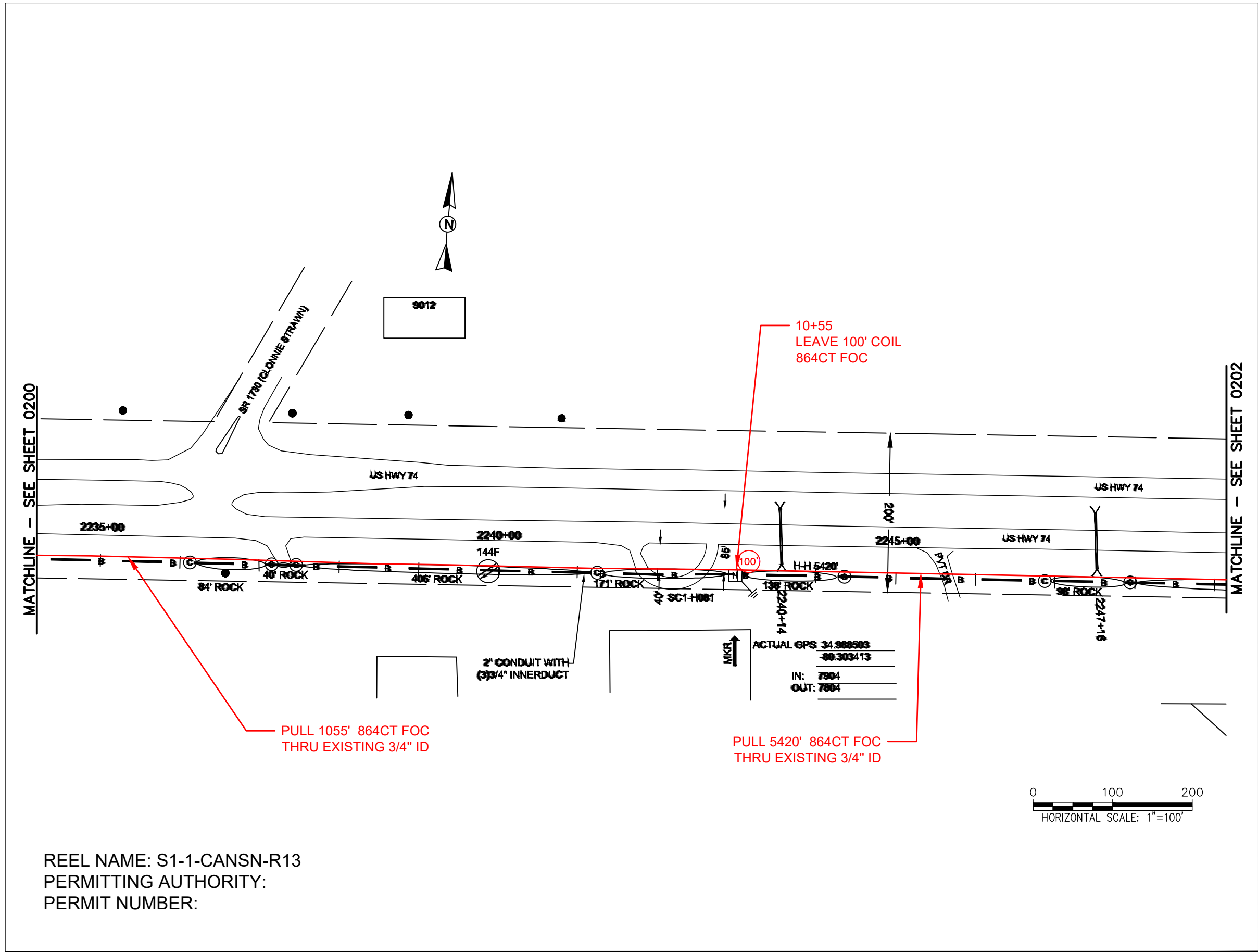
REEL NAME: S1-1-CUNI-R12 / S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
	
SCALE: NTS	SHEET NUMBER: 200 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

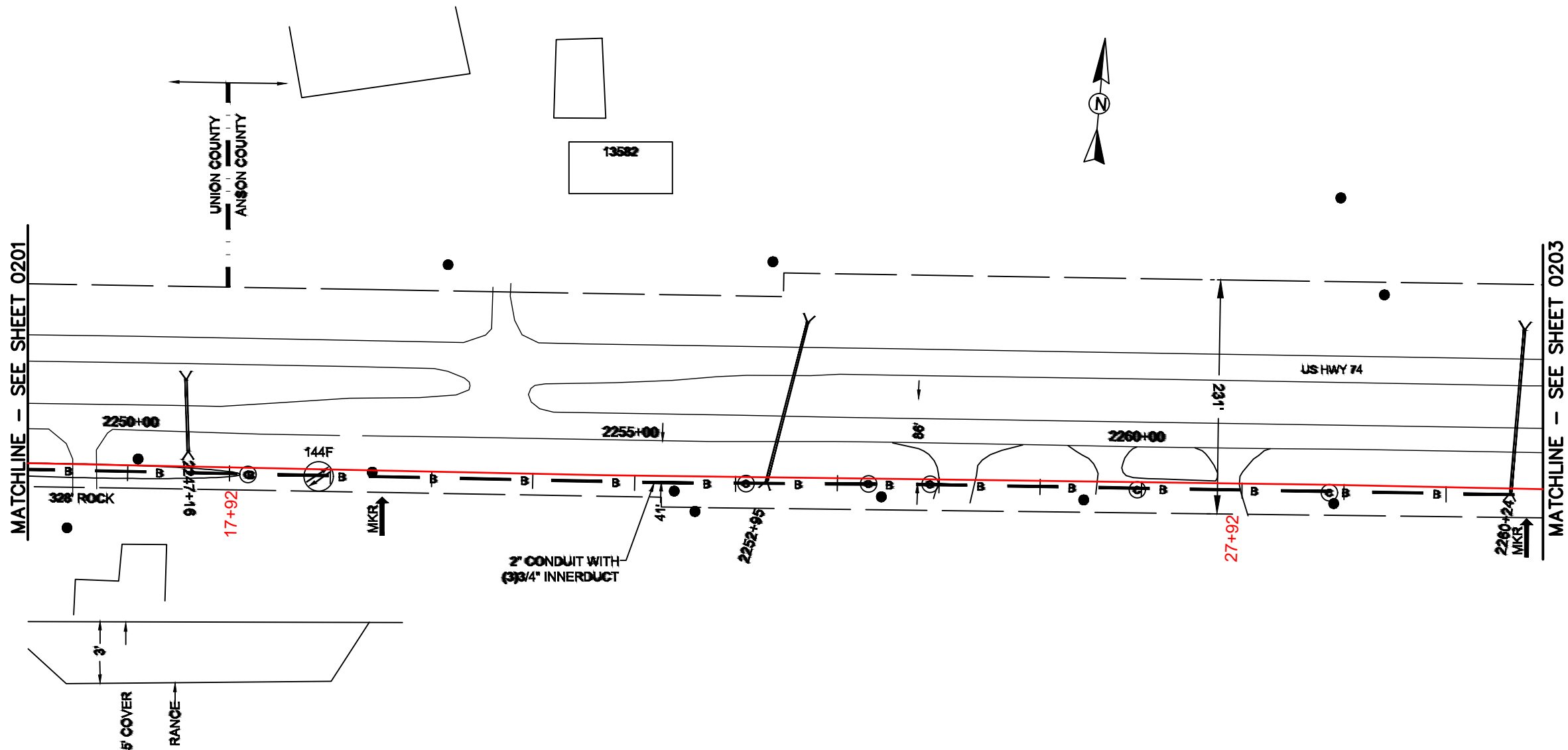
SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

SCALE: NTS	SHEET NUMBER: 201 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY: PERMIT
NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

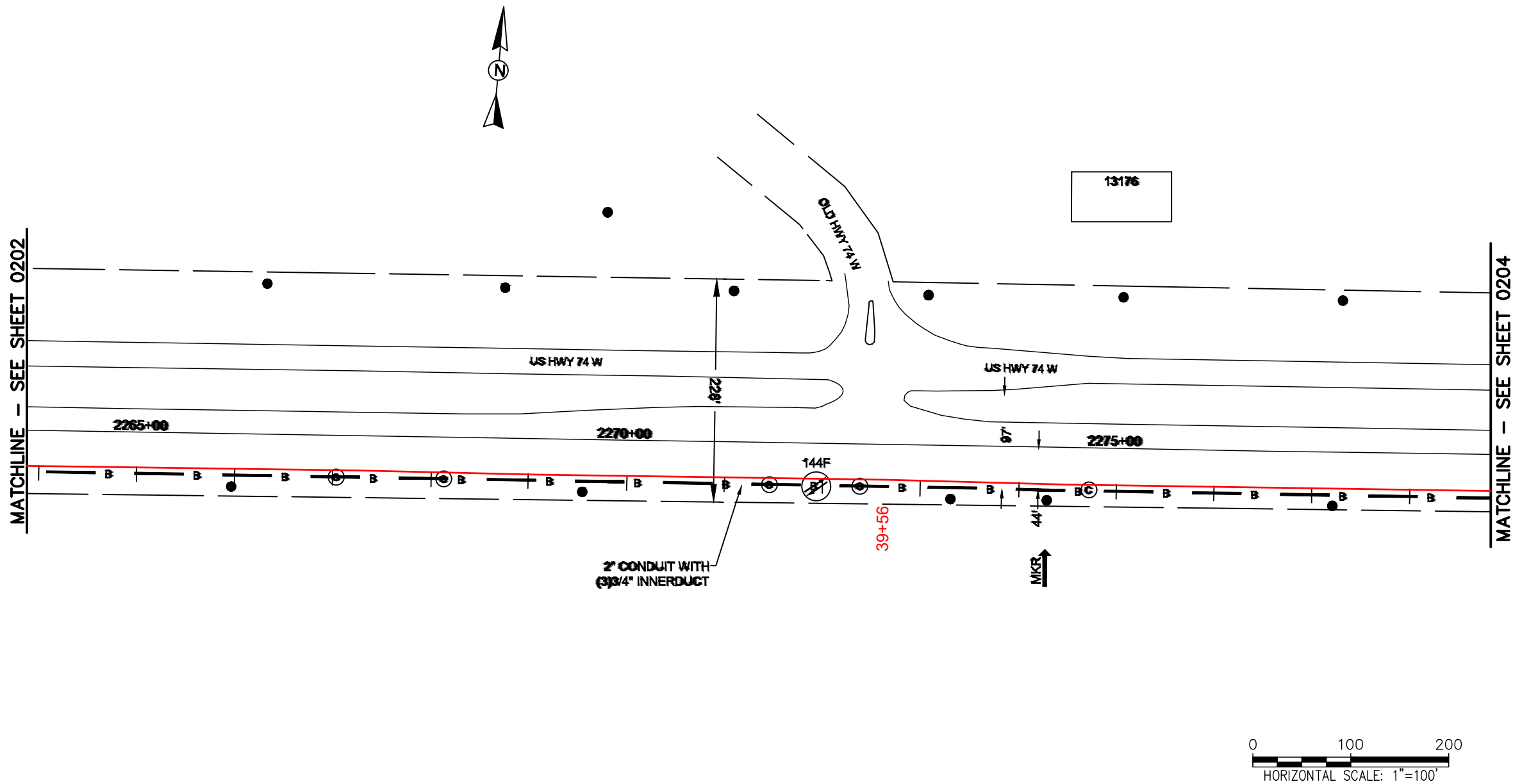
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 202 OF 220
PLOT DATE: 3/24/25	



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY: PERMIT
NUMBER:



CONSTRUCTION NOTES:

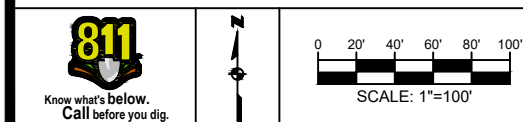
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

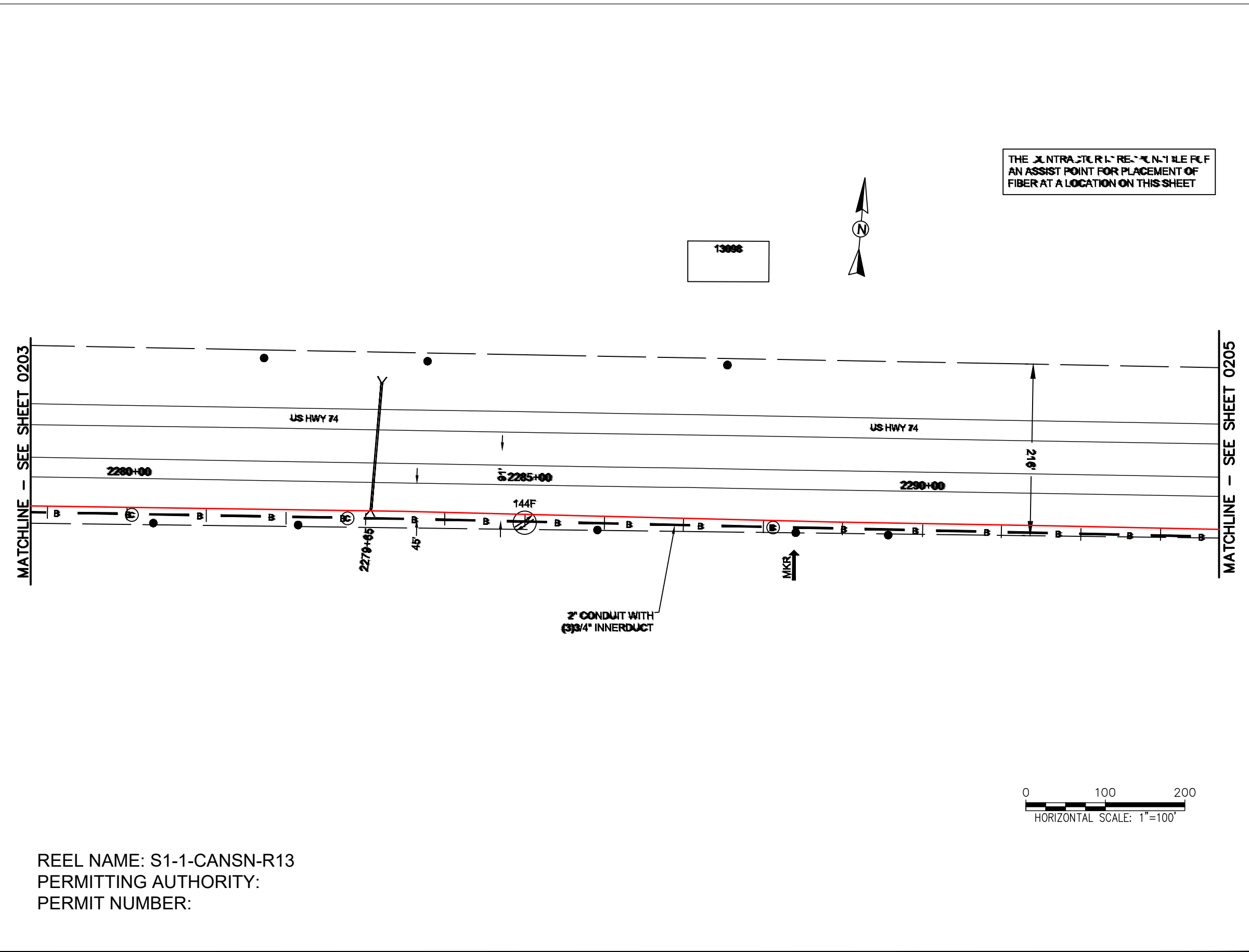


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 203 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

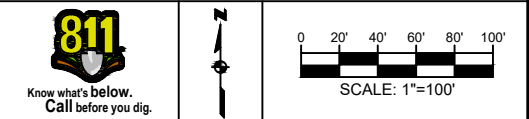


CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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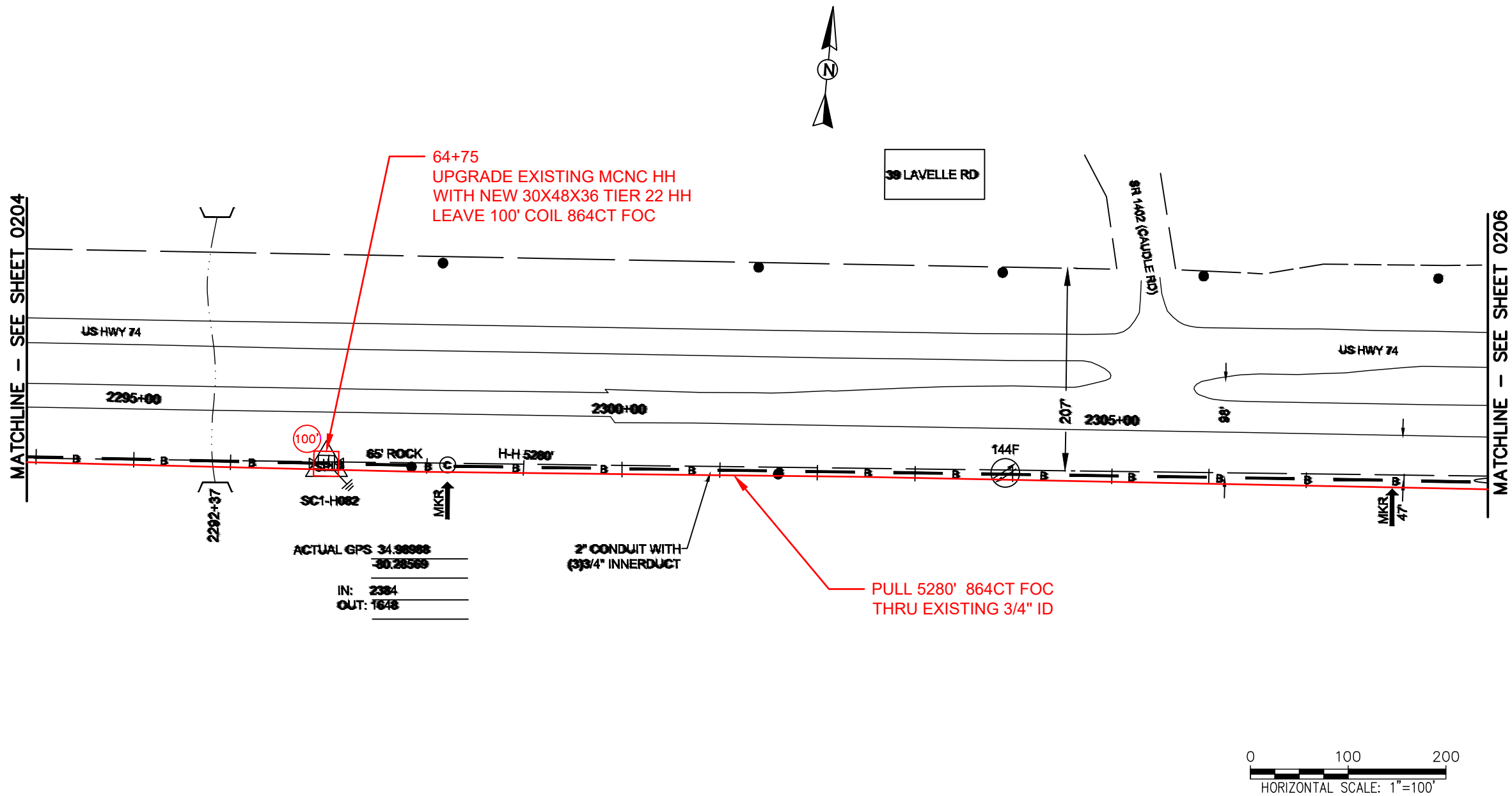
SEE DETAILS C11/C12

CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25

SHEET NUMBER:
204
OF
220



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:

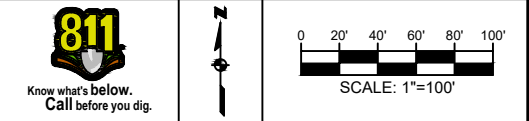
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.
SEE DETAILS C11/C12

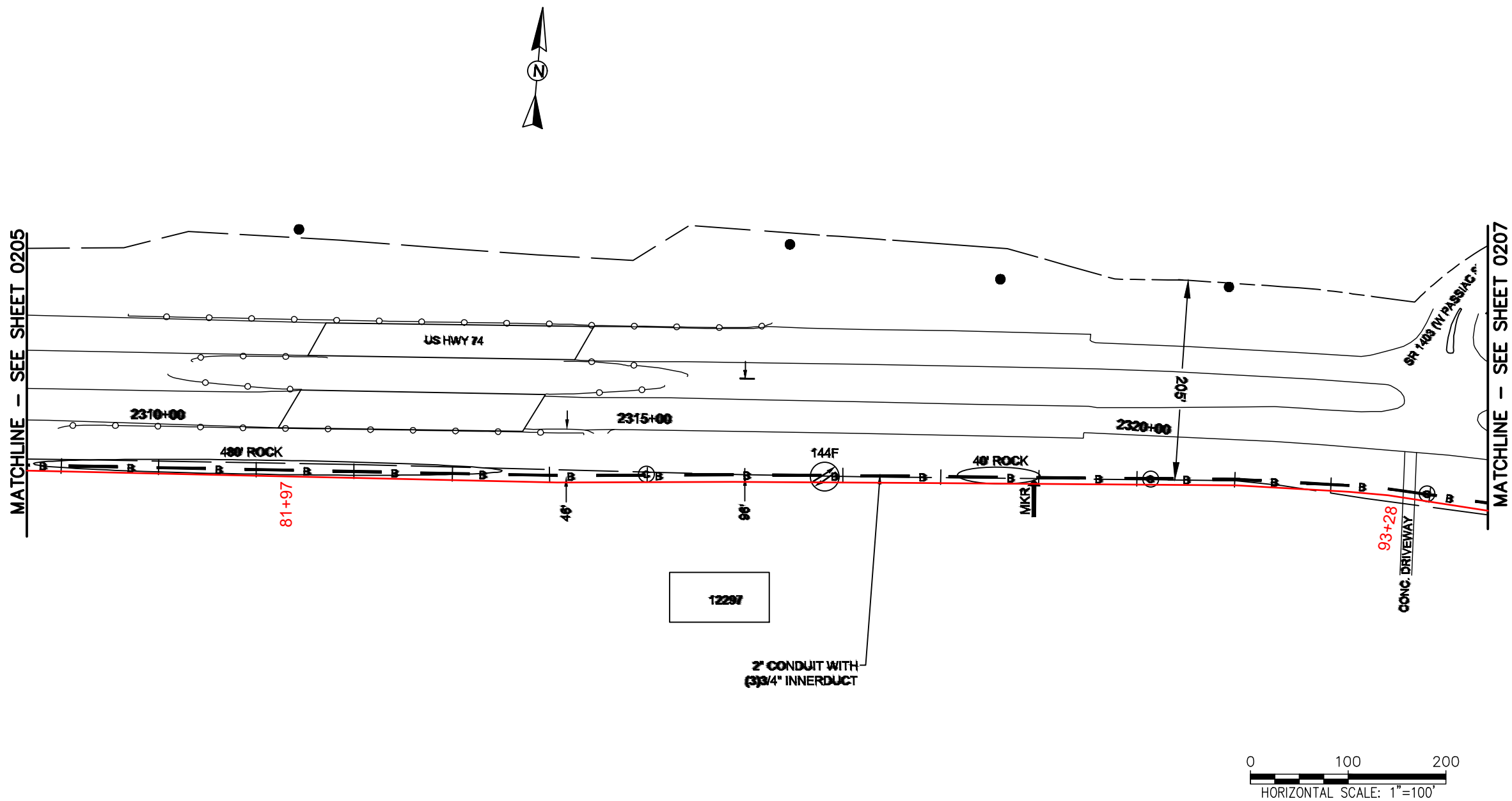
CONFIDENTIAL AND PROPRIETARY



CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 205 OF 220



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY: PERMIT
NUMBER:

CONSTRUCTION NOTES:

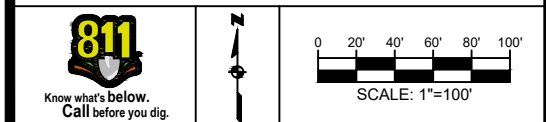
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

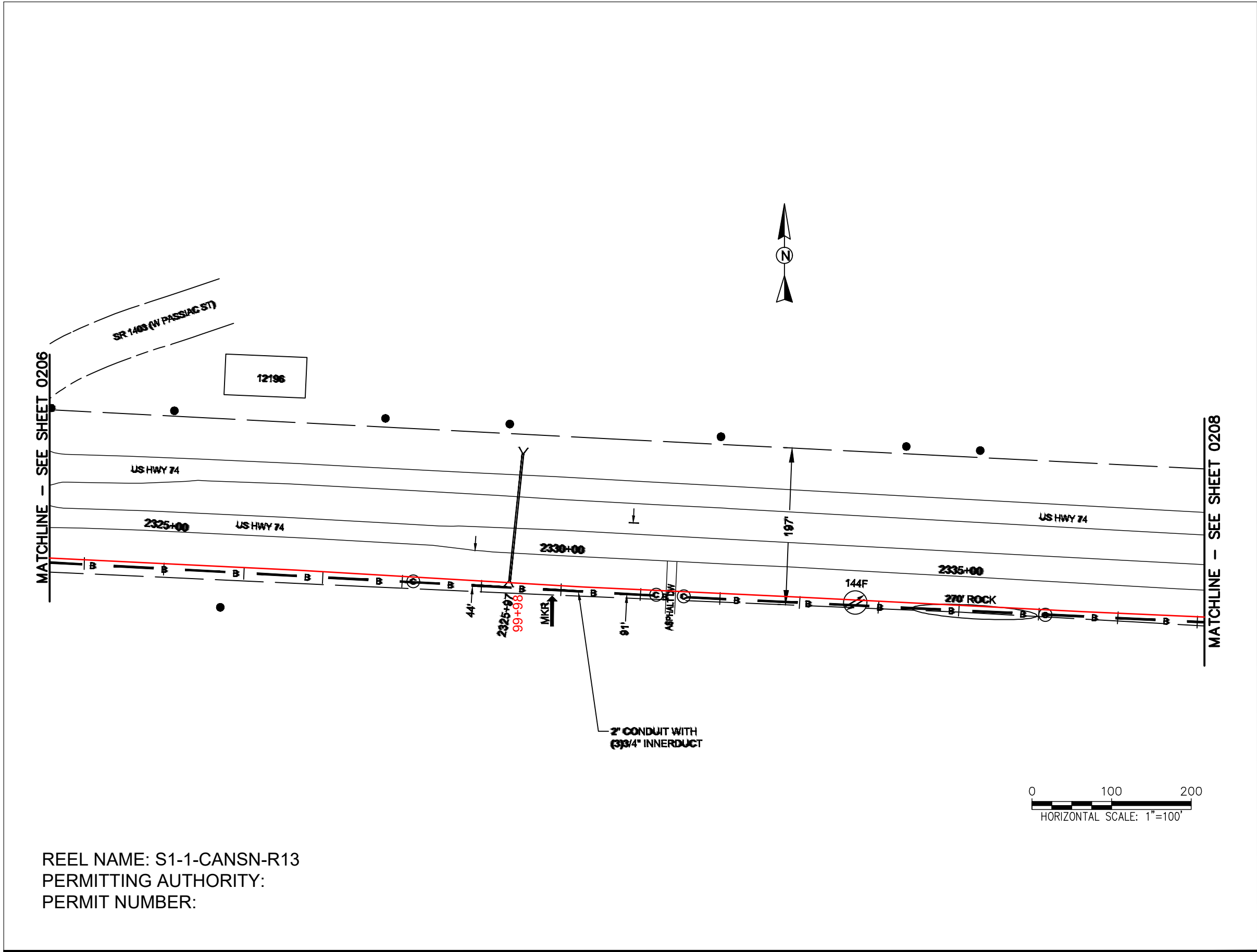


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 206 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:



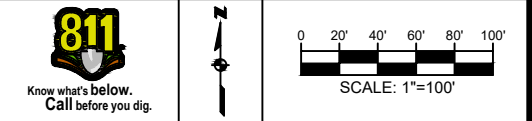
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

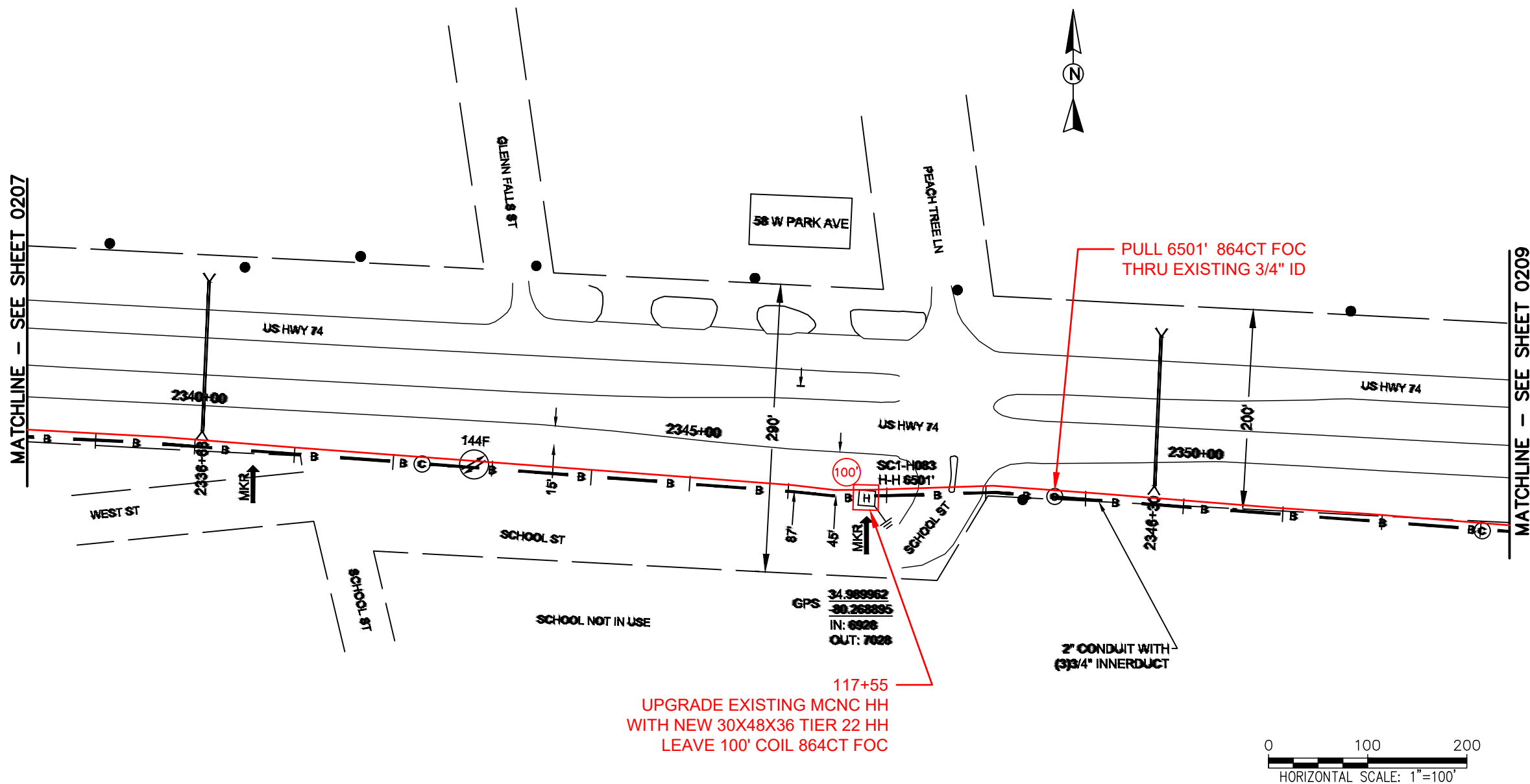


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 207 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

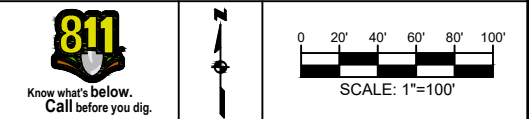
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12



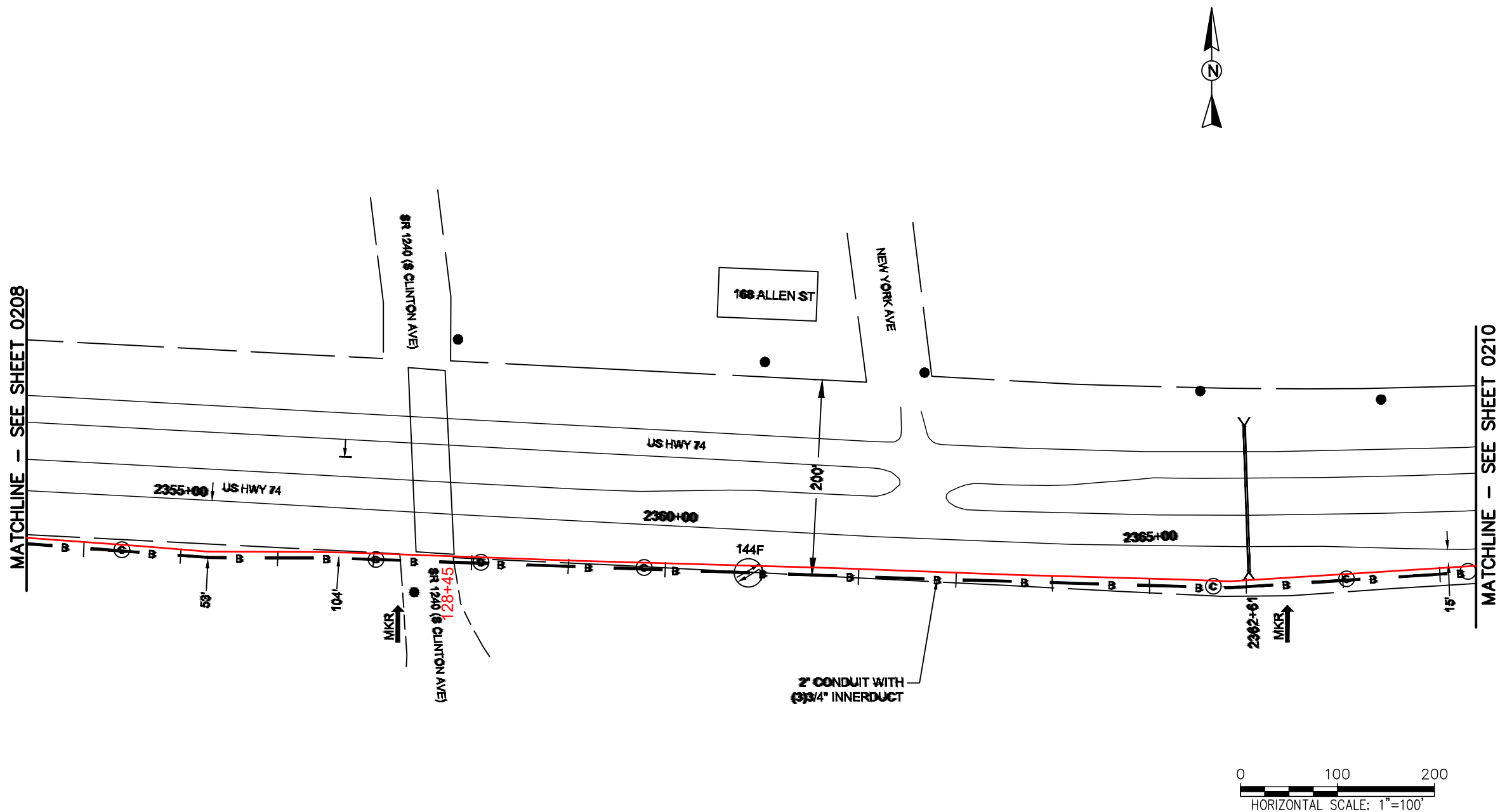
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JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 208 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

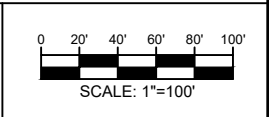
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

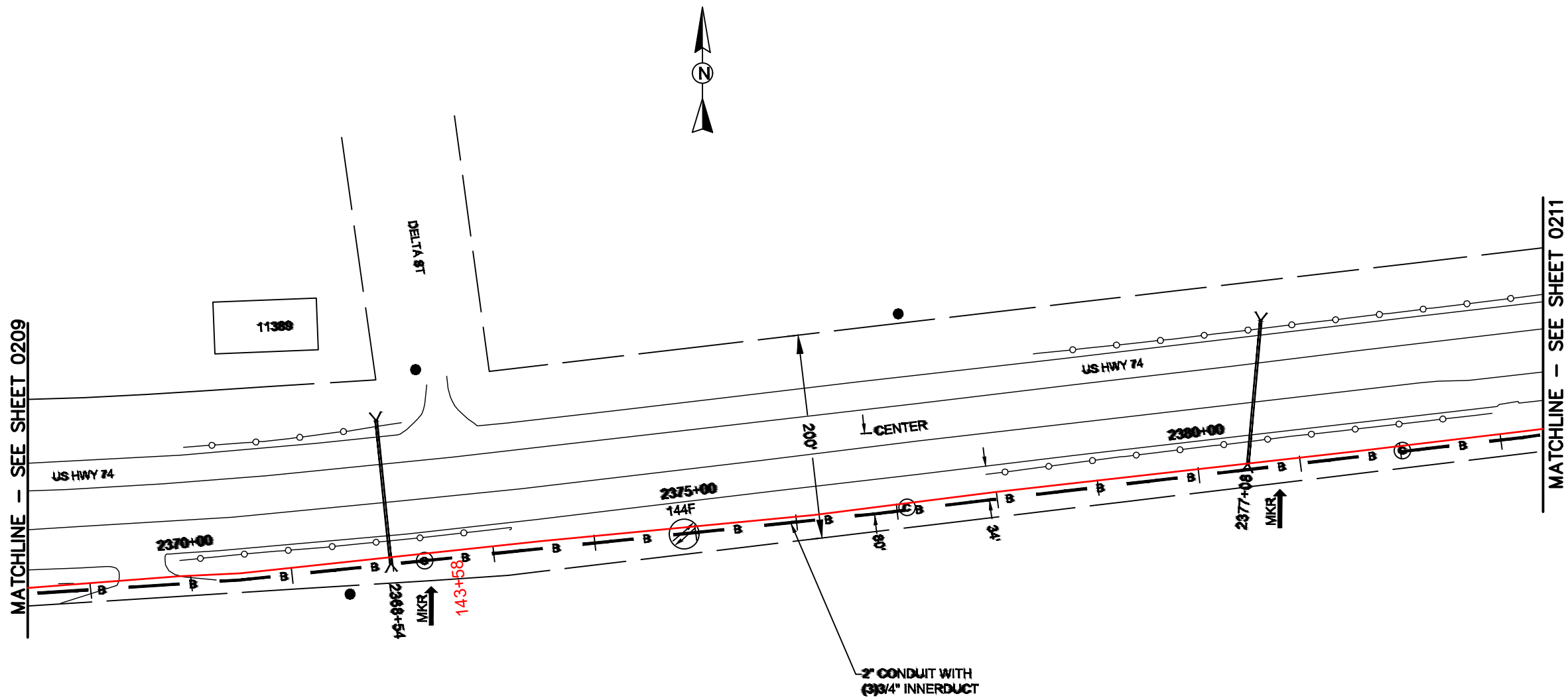


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 209 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

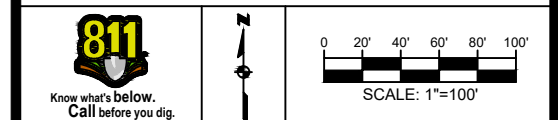
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

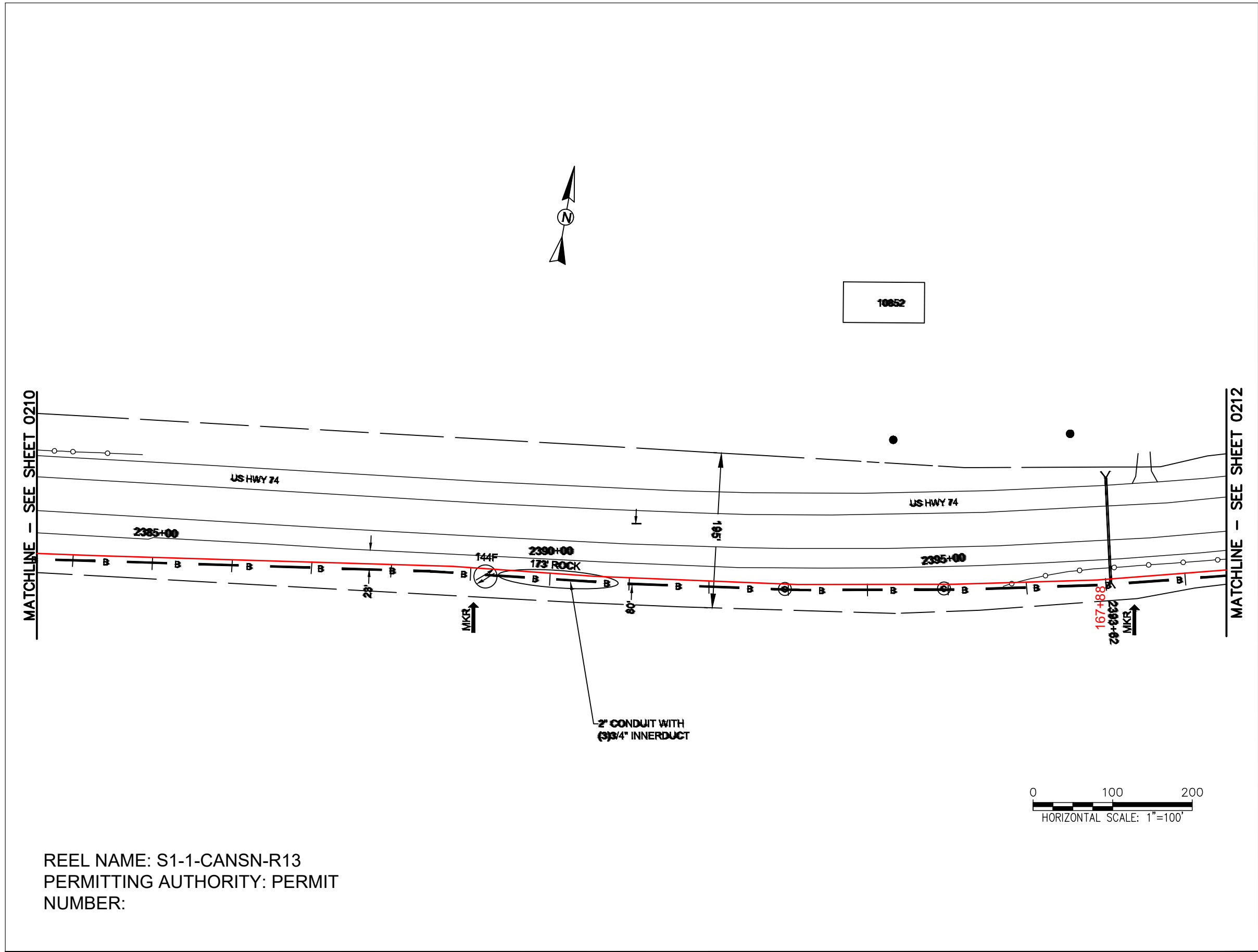


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 210 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CANSN-R13
PERMITTING AUTHORITY: PERMIT
NUMBER:



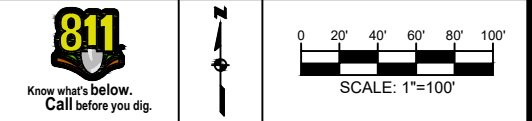
CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

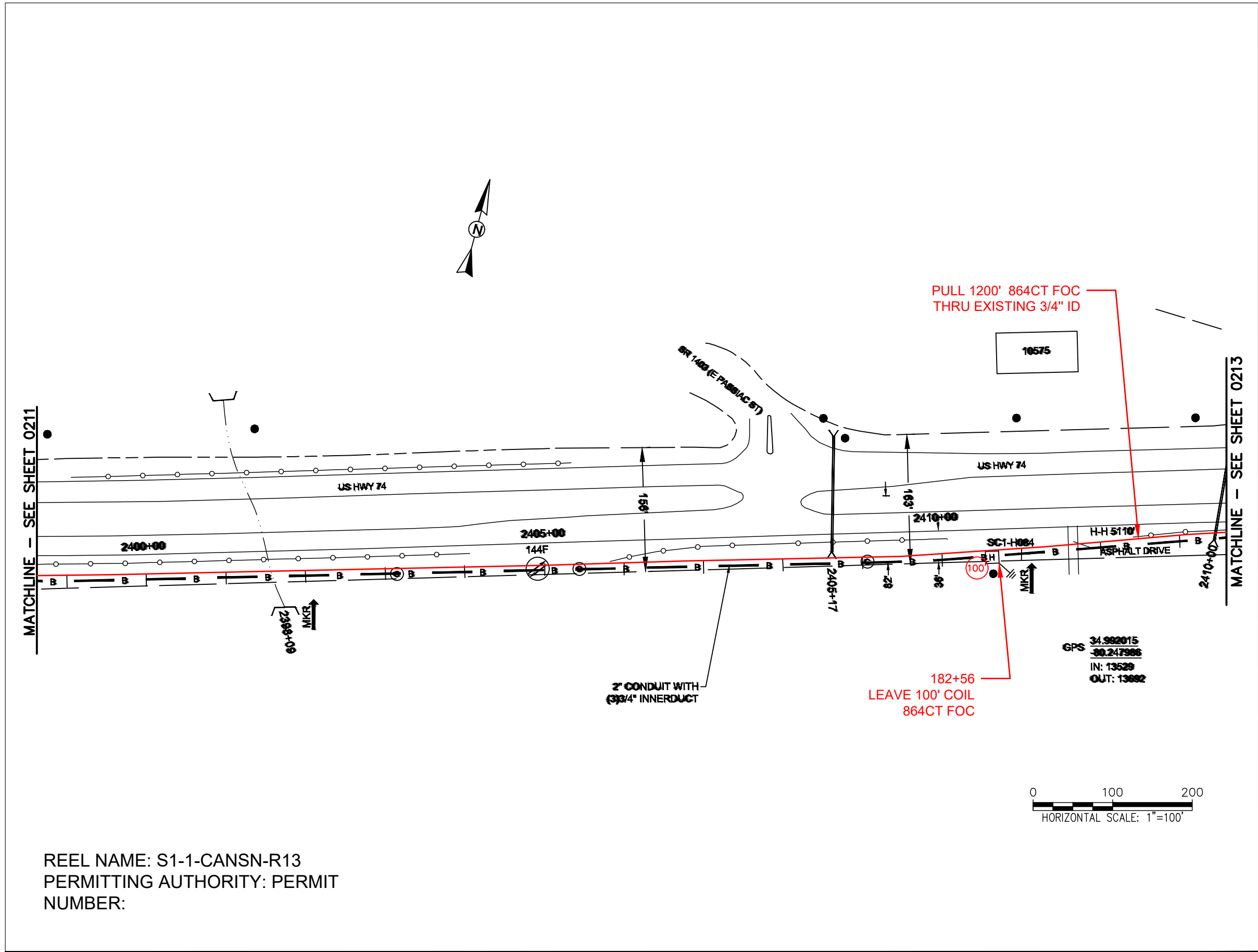


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS
PLOT DATE: 3/24/25
SHEET NUMBER: 211 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
 AT BOTTOM UNDER ALL PRE-
 EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

MCNC®

CLIENT:
 MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
 R.B.

DATE: 3/24/25

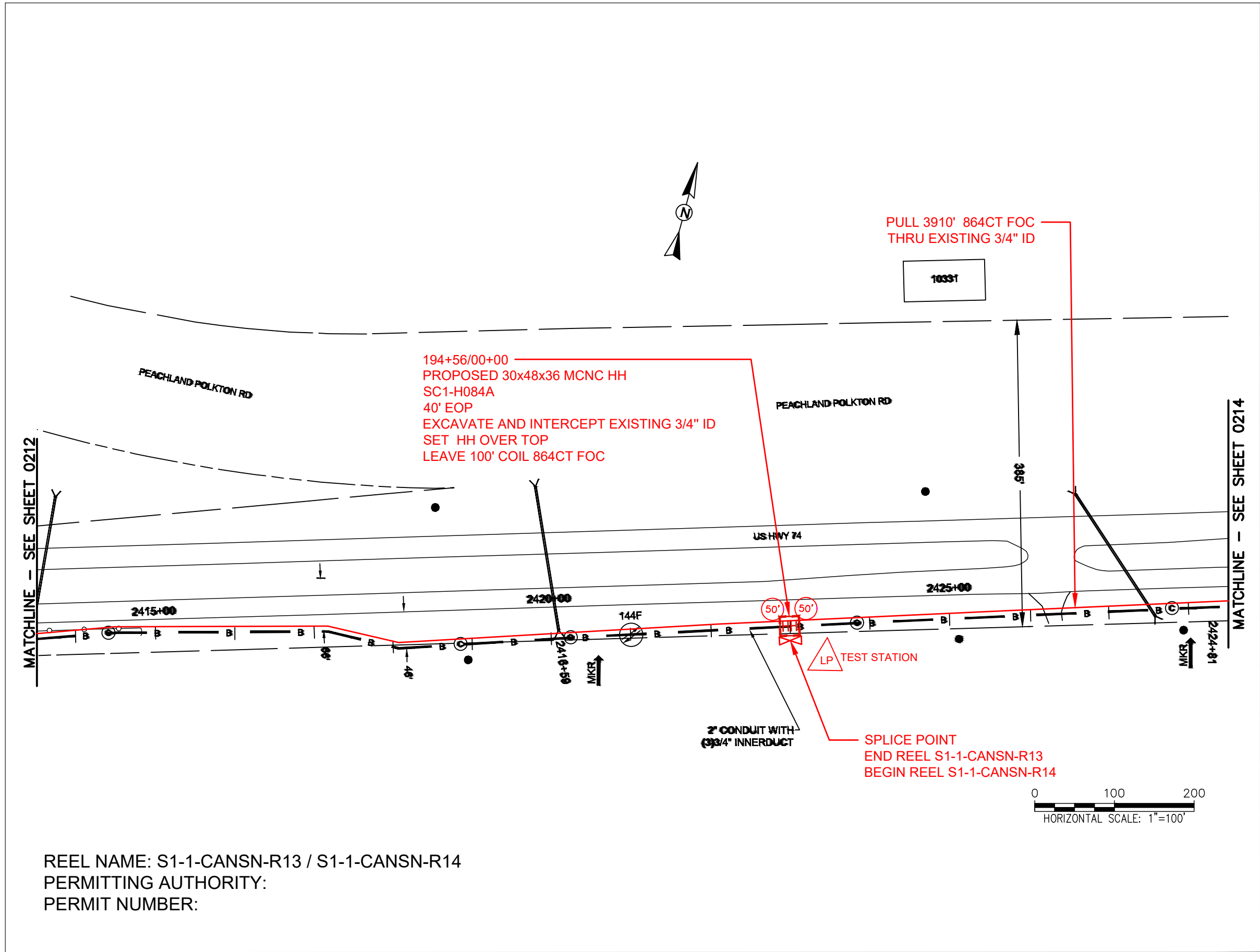
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 Know what's below.
 Call before you dig.

0 20' 40' 60' 80' 100'
 SCALE: 1"=100'

SCALE: NTS

PLOT DATE: 3/24/25

SHEET NUMBER: 212 OF 220



REEL NAME: S1-1-CANSN-R13 / S1-1-CANSN-R14
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

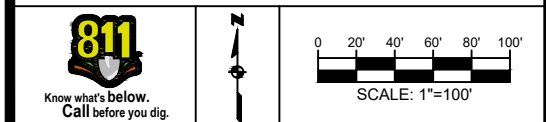
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AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CONFIDENTIAL AND PROPRIETARY

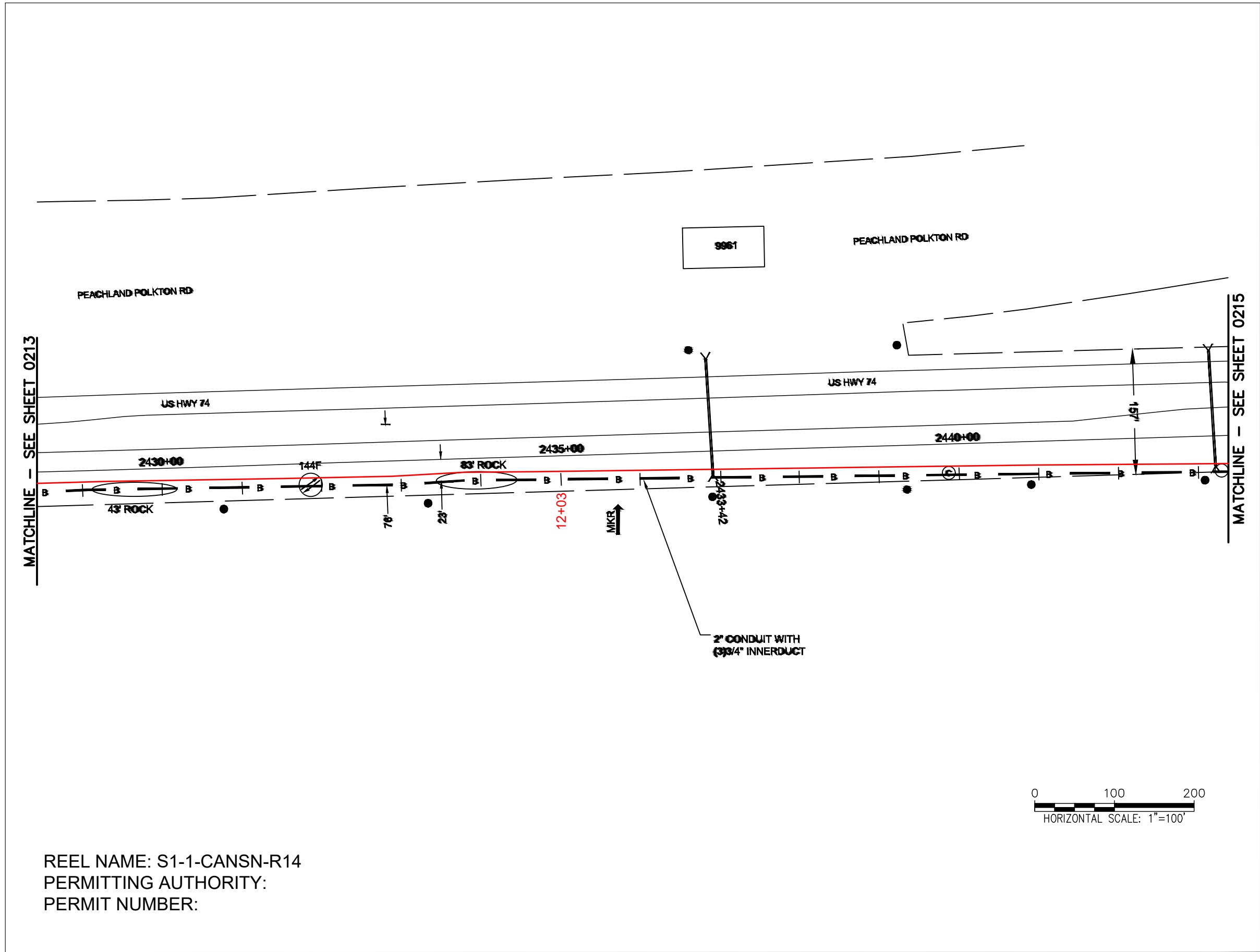


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

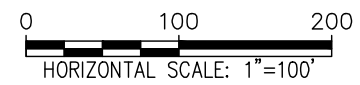


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PLOT DATE: 3/24/25
SHEET NUMBER: 213 OF 220

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REEL NAME: S1-1-CANSN-R14
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

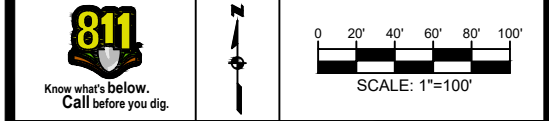
PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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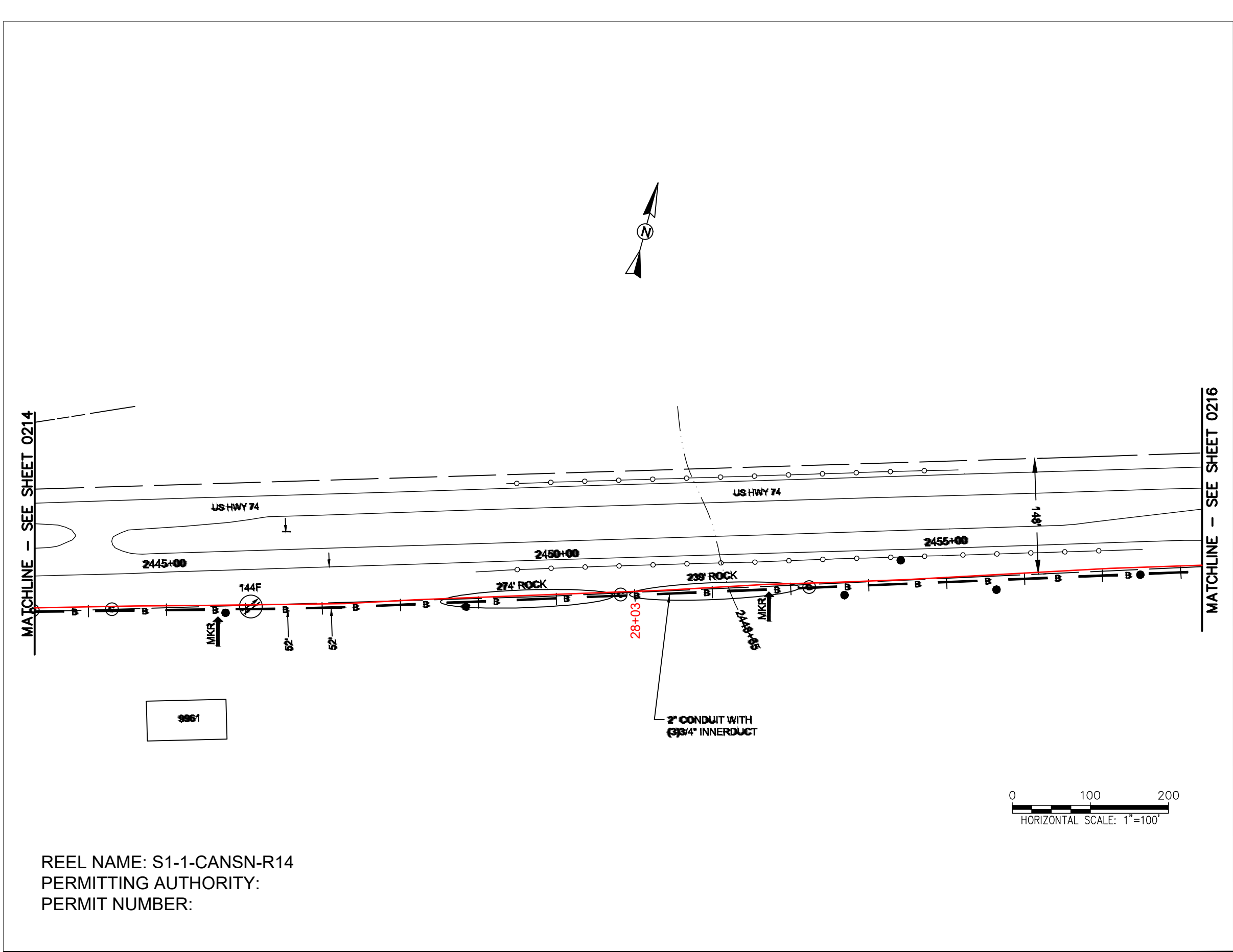


CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 214 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
 AT BOTTOM UNDER ALL PRE-
 EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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CLIENT:
 MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
 R.B.

DATE: 3/24/25

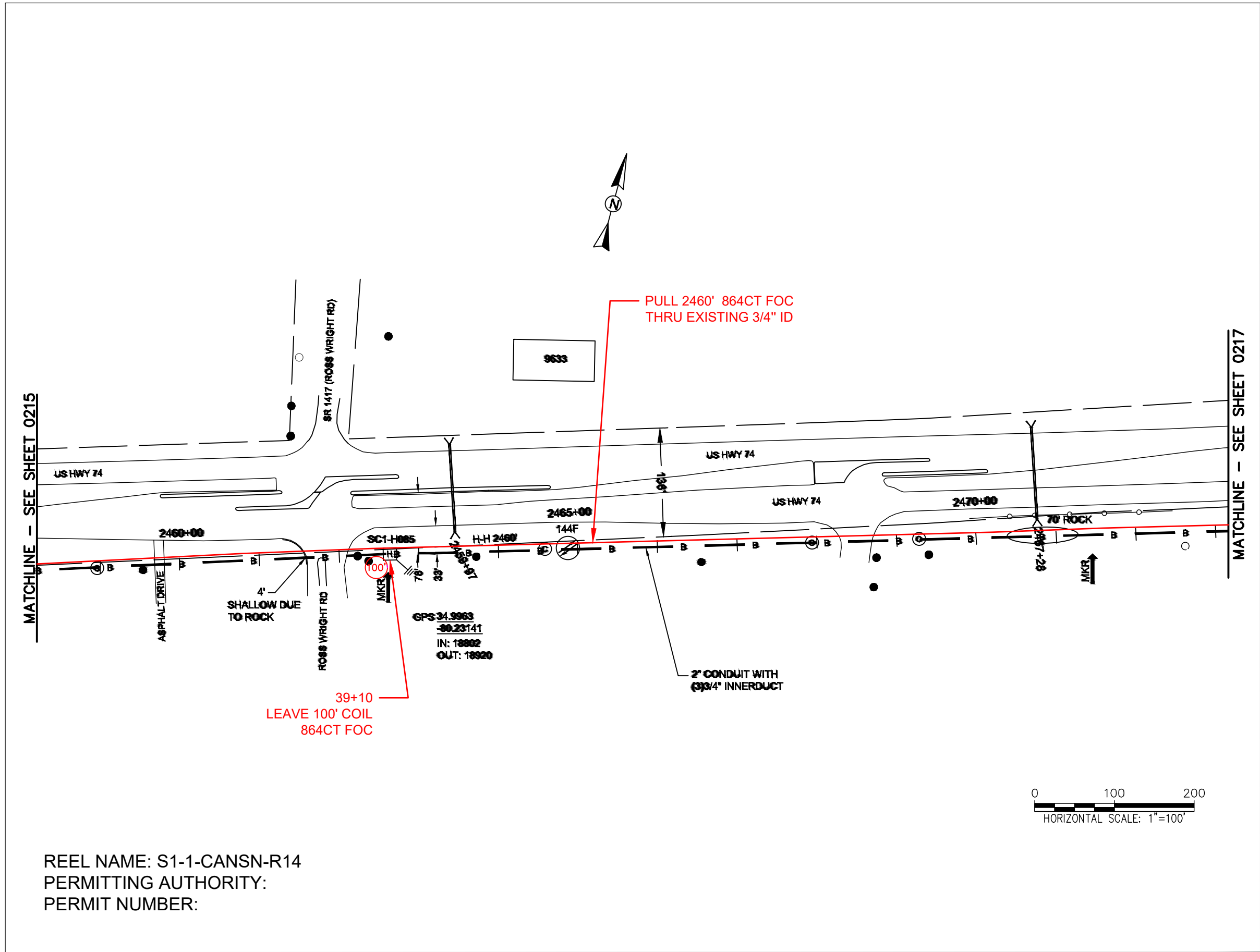
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 Know what's below.
 Call before you dig.

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SCALE: NTS

PLOT DATE: 3/24/25

SHEET NUMBER: 215
 OF 220





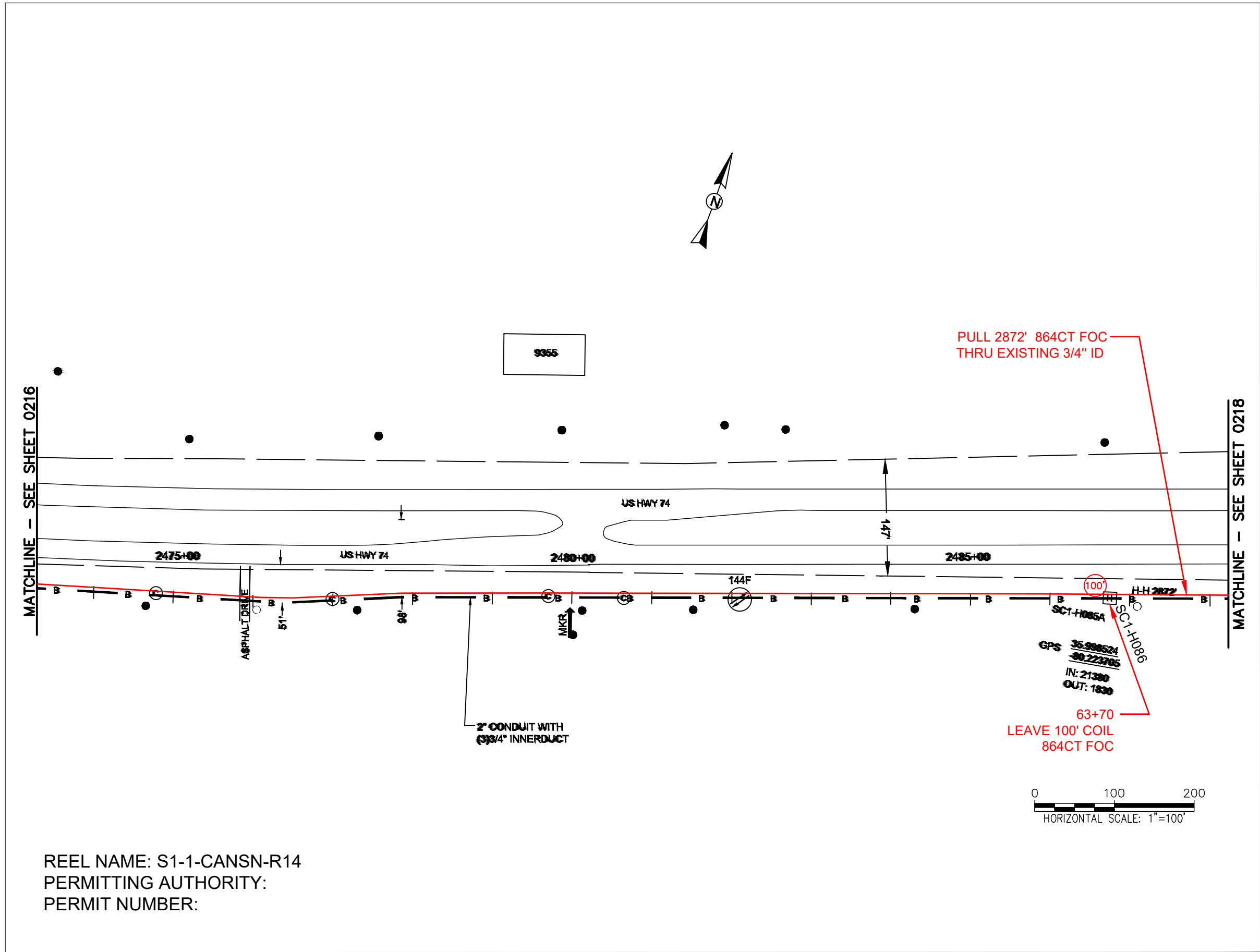
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PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

CLIENT: MCNC	
JOB TITLE: SEGMENT 1 ROUTE 1	
JOB LOCATION: CHARLOTTE-POLKTON	
DESIGNER: R.B.	
DATE: 3/24/25	
	
SCALE: NTS	SHEET NUMBER: 216 OF 220
PLOT DATE: 3/24/25	
FILE NAME: (Charlotte-Polkton)- REDLINES.dwg	



REEL NAME: S1-1-CANSN-R14
PERMITTING AUTHORITY:
PERMIT NUMBER:



CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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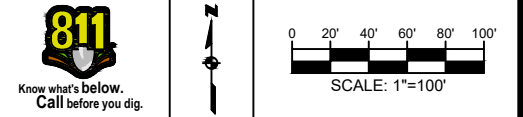
CLIENT:
MCNC

JOB TITLE: SEGMENT 1 ROUTE 1

JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.

DATE: 3/24/25



SCALE: NTS

PLOT DATE: 3/24/25

SHEET NUMBER: 217 OF 220

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
EXISTING FIBER CABLES.

SEE DETAILS C11/C12

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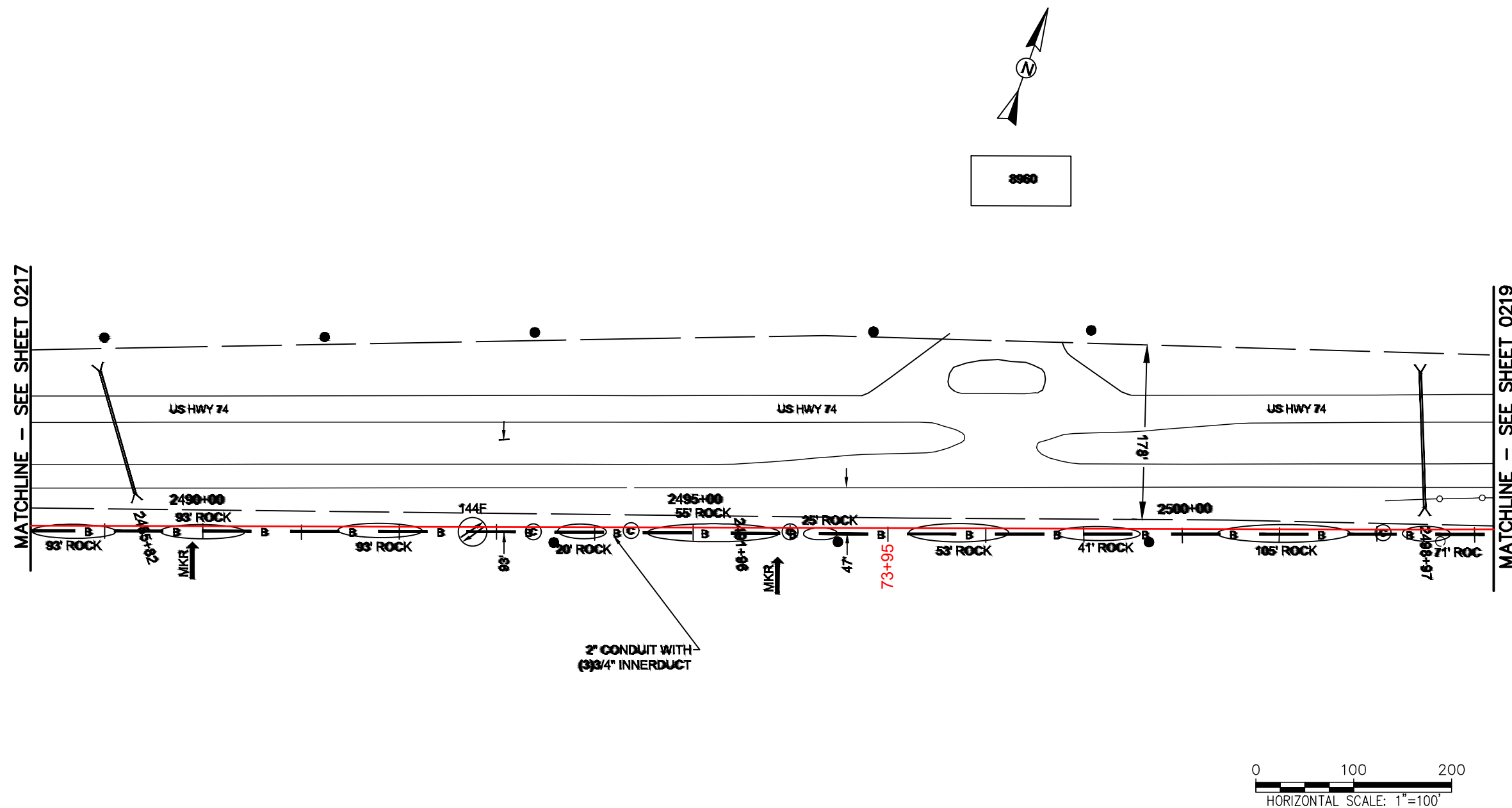


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MCNC
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JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25

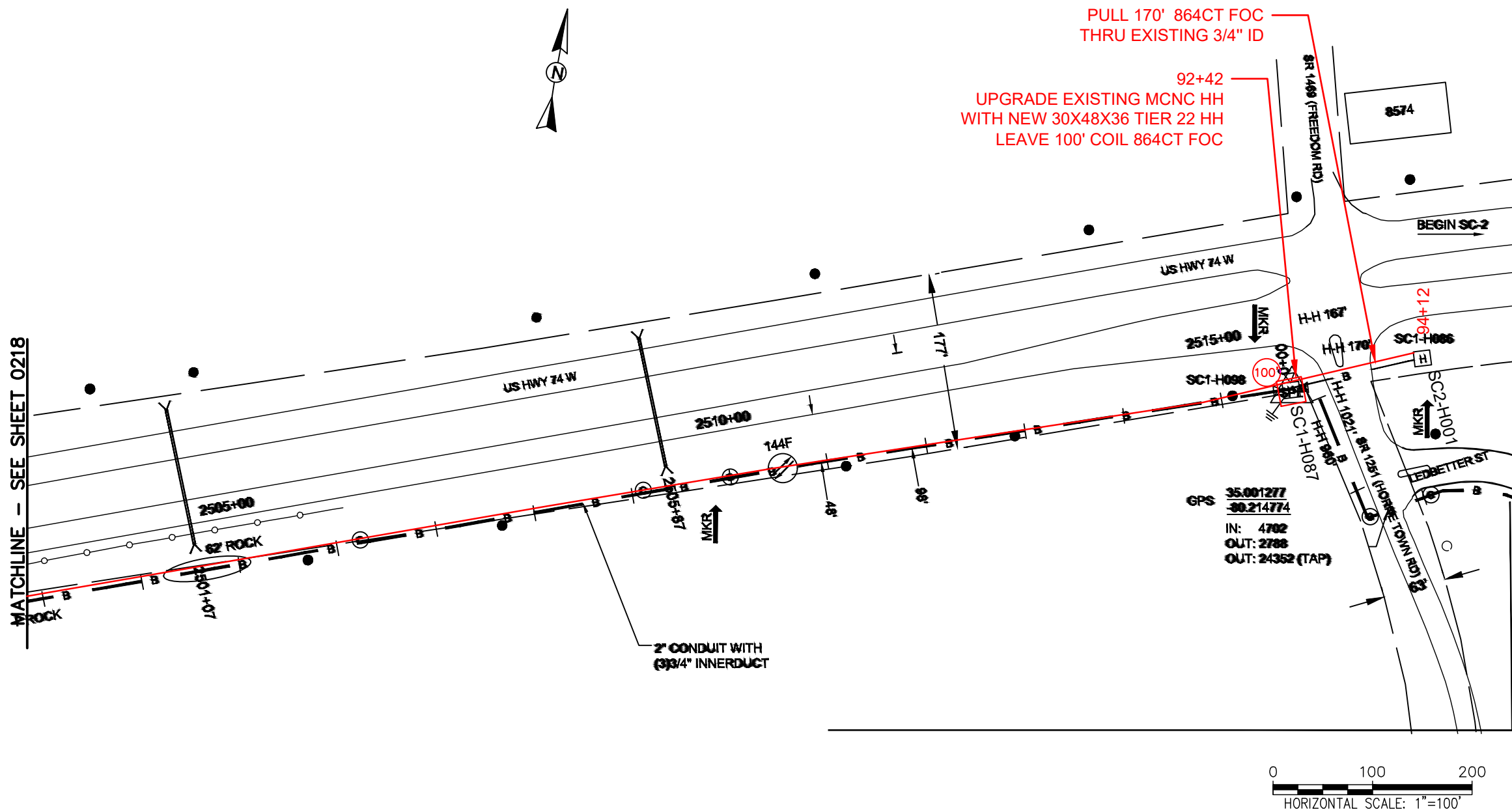


SCALE: NTS	SHEET NUMBER: 218 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg



REEL NAME: S1-1-CANSN-R14
PERMITTING AUTHORITY:
PERMIT NUMBER:



REEL NAME: S1-1-CANSN-R14
PERMITTING AUTHORITY:
PERMIT NUMBER:

CONSTRUCTION NOTES:

PLACE NEW TAGGED 864F LOOPS
AT BOTTOM UNDER ALL PRE-
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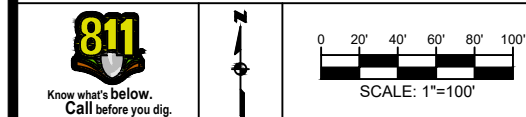
SEE DETAILS C11/C12

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CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON

DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 219 OF 220
PLOT DATE: 3/24/25	

FILE NAME: (Charlotte-Polkton)- REDLINES.dwg

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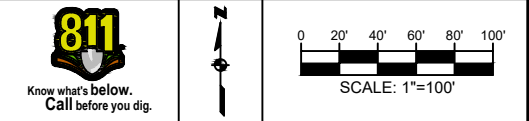


CONSTRUCTION NOTES:

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CLIENT:
MCNC
JOB TITLE: SEGMENT 1 ROUTE 1
JOB LOCATION: CHARLOTTE-POLKTON
DESIGNER:
R.B.
DATE: 3/24/25



SCALE: NTS	SHEET NUMBER: 220 OF 220
PLOT DATE: 3/24/25	

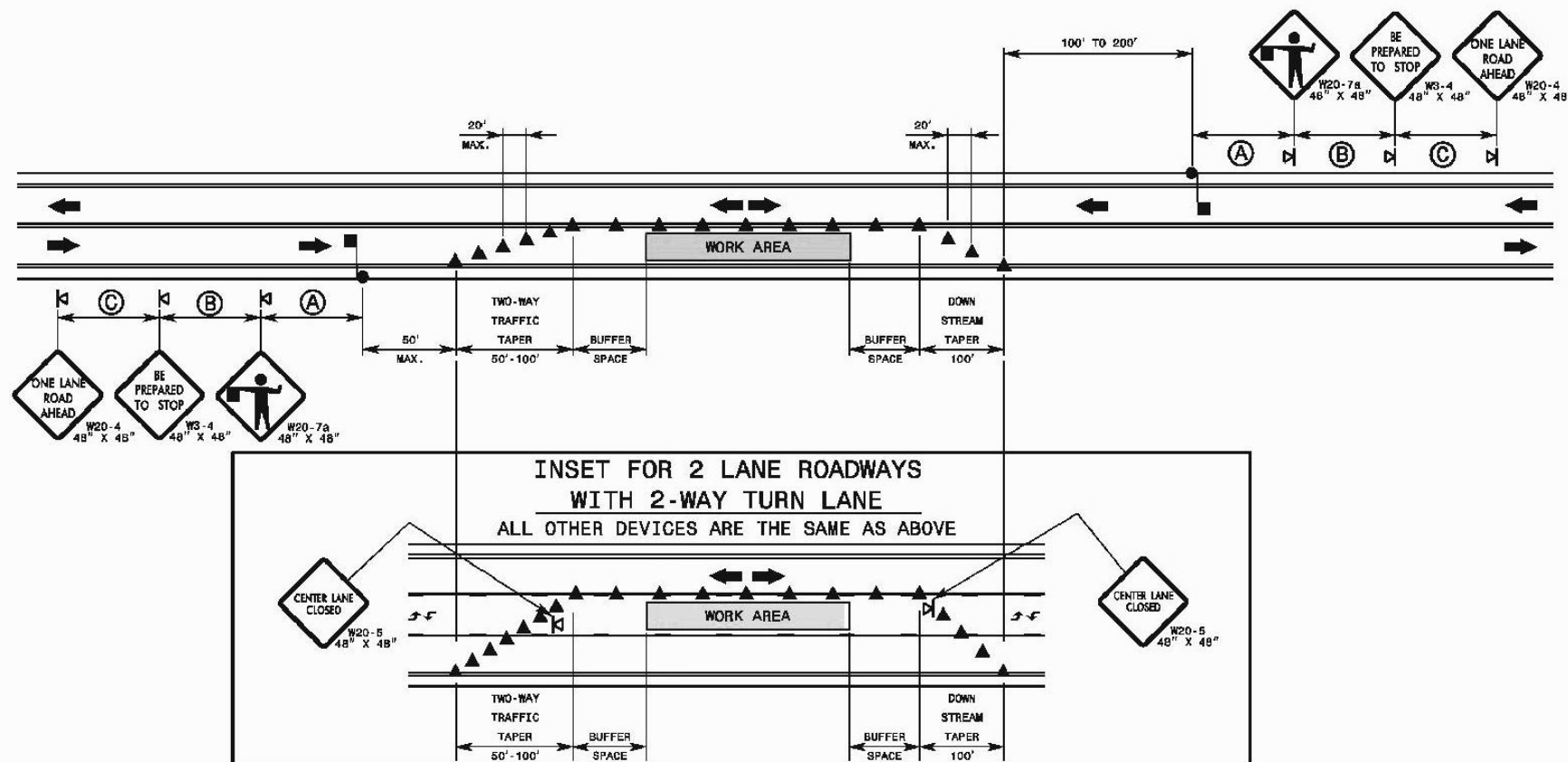
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STATE OF
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1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

SHEET 1 OF 15
1101.02



GENERAL NOTES FOR FLAGGER OPERATIONS

- 1- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.
- 2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
- 3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).
- 6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
- 7- DRUMS OR SKINNY-DRUMS MAY BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 1180.01 FOR SKINNY-DRUM REQUIREMENTS.
- 8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND RECOMMEND THE USE OF LAW ENFORCEMENT.
- 9- REFER TO 2009 MUTCD, CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
- 10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR PILOT CAR OPERATIONS

- 1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
- 2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA, AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
- 3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
- 4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
- 5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- 6- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

LEGEND

- FLAGGER
- CONES
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

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RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

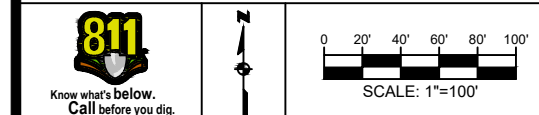
SHEET 1 OF 15
1101.02

CONSTRUCTION NOTES:

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CLIENT:
MCNC
JOB TITLE:
JOB LOCATION:
DESIGNER:
R.B.
DATE: 2/24/25



SCALE: NTS
PLOT DATE: 2/24/25
SHEET NUMBER: TCC 1

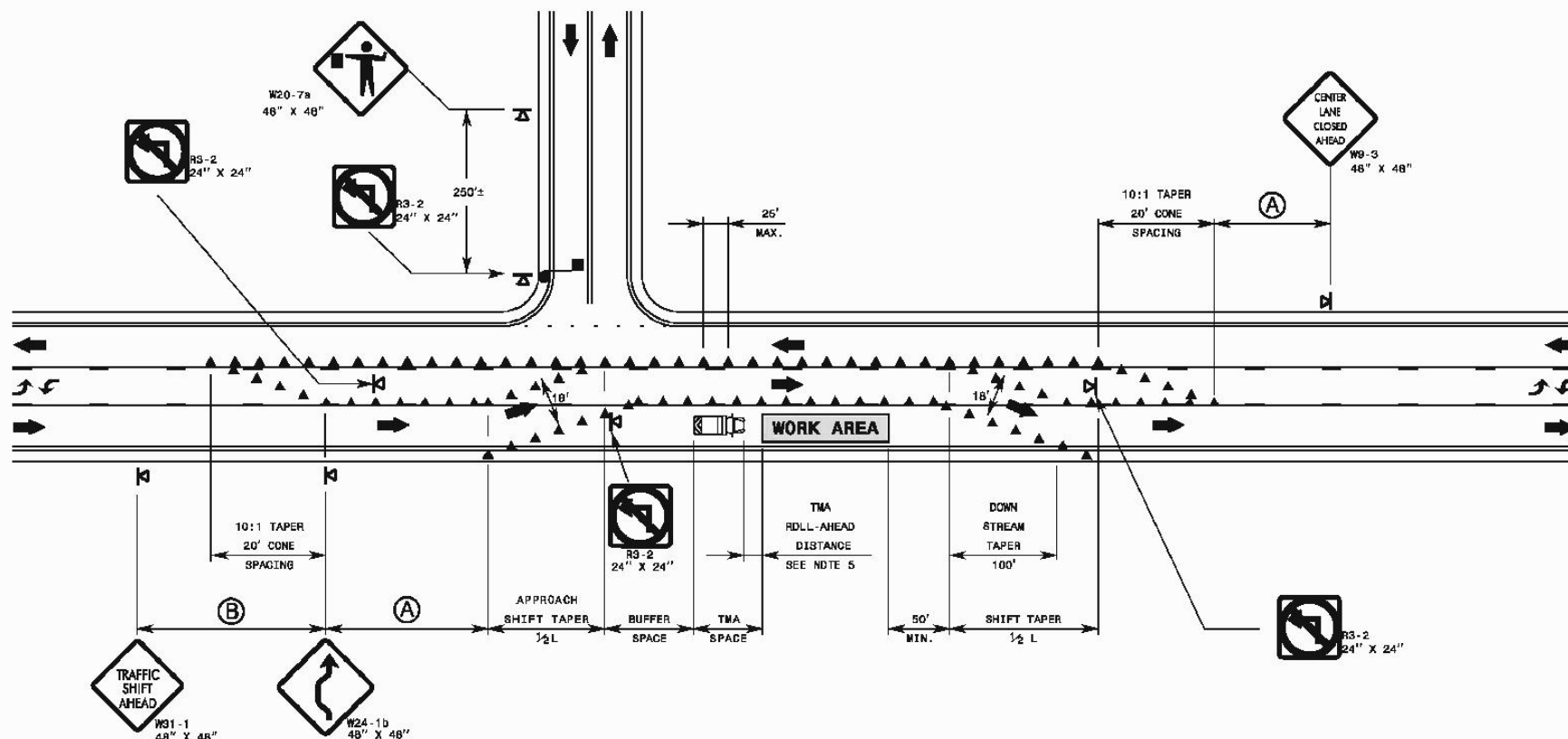
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
2-LANE, 2-WAY ROADWAY WITH 2-WAY TURN LANE
1 THRU LANE CLOSED

SHEET 2 OF 15
1101.02



GENERAL NOTES

- 1- REFER TO STD. 1101.11, FOR "L" DISTANCE AND SIGN SPACING.
- 2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 3- PLACE CONES ADJACENT TO THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT. PLACE CONES SEPARATING OPPOSING TRAFFIC AT THE MAXIMUM SPACING OF 25 FEET.
- 4- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE BEGINNING OF THE APPROACH SHIFT TAPER (REFER TO STD. 1101.11 SHEET 2).
- 5- TMA'S ARE REQUIRED WHEN A BUFFER SPACE CANNOT BE ATTAINED, OR WHEN DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS. WHEN USED, POSITION TMA'S TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
- 6- DRUMS OR SKINNY-DRUMS MAY BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 1180.01 FOR SKINNY-DRUM REQUIREMENTS.
- 7- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

LEGEND

- TMA
- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
2-LANE, 2-WAY ROADWAY WITH 2-WAY TURN LANE
1 THRU LANE CLOSED

SHEET 2 OF 15
1101.02

CONSTRUCTION NOTES:

CONFIDENTIAL AND PROPRIETARY



CLIENT:
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JOB LOCATION:
DESIGNER:
R.B.
DATE: 2/24/25



0 20' 40' 60' 80' 100'
SCALE: 1"=100'

SCALE:
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PLOT DATE:
2/24/25

SHEET NUMBER:

TCC 2

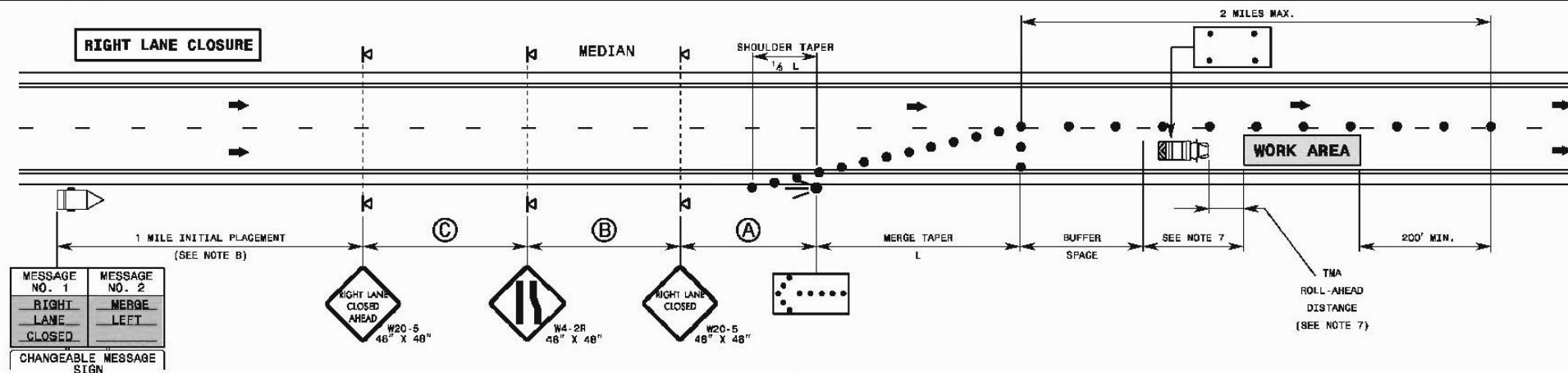
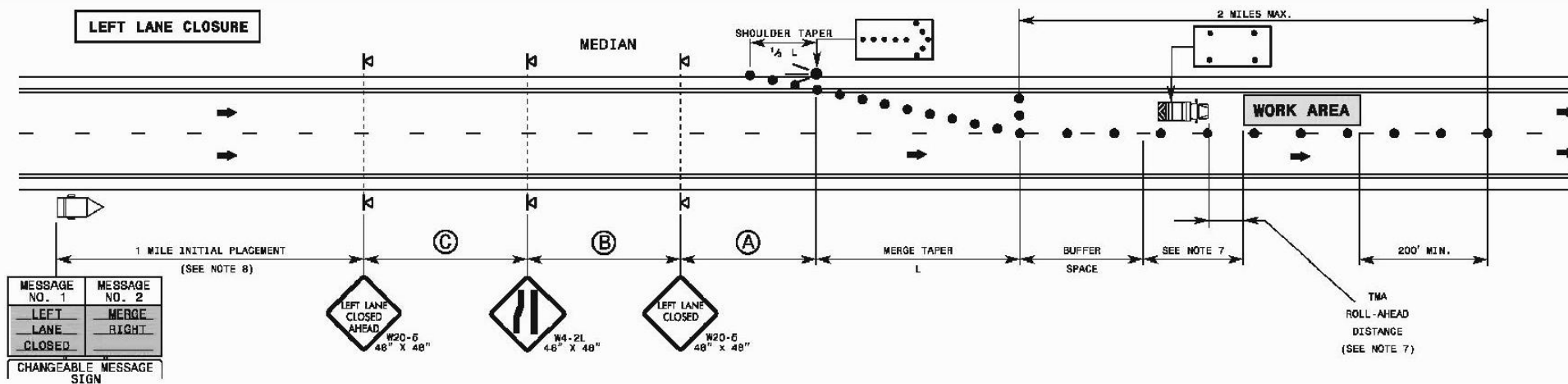
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DEPT. OF TRANSPORTATION
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RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
DIVIDED MULTI-LANE ROADWAY-1 LANE CLOSED
(FOR ROADWAYS < 60 MPH)

SHEET 3 OF 15
1101.02



GENERAL NOTES

- 1- IF NECESSARY USE THIS STD. FOR ONE-WAY CITY TYPE STREETS WHERE SIGNS MAY BE MOUNTED ON BOTH SIDES OF THE ROADWAY.
- 2- PLACE ARROW BOARDS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW BOARDS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW BOARD LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW BOARD IS MET (SEE STD. 1101.11 SHEET 2).
- 3- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 4- REFER TO STD. 1101.11 FOR "L" DISTANCE, SIGN SPACING, AND BUFFER SPACE.
- 5- REFER TO STD. 1101.02 SHEETS 9 AND 10 FOR TREATMENT OF LANE CLOSURES THRU INTERCHANGES.
- 6- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- 7- POSITION THE TMA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER AND CONTINUOUSLY ADVANCE TMA'S AS WORK PROGRESSES.
- 8- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF ANTICIPATED BACKUP.
- 9- DO NOT EXCEED A 2 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

LEGEND

- FLASHING ARROW BOARD (TYPE C)
- FLASHING ARROW BOARD, TYPE "C" (96"X48" MIN.), "CAUTION MODE"
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN (CMS)
- DRUM
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
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RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY LANE CLOSURES
DIVIDED MULTI-LANE ROADWAY-1 LANE CLOSED
(FOR ROADWAYS < 60 MPH)

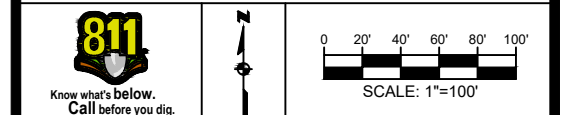
SHEET 3 OF 15
1101.02

CONSTRUCTION NOTES:

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CLIENT:
MCNC
JOB TITLE:
JOB LOCATION:
DESIGNER:
R.B.
DATE: 2/24/25



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PLOT DATE: 2/24/25
SHEET NUMBER: TCC 3

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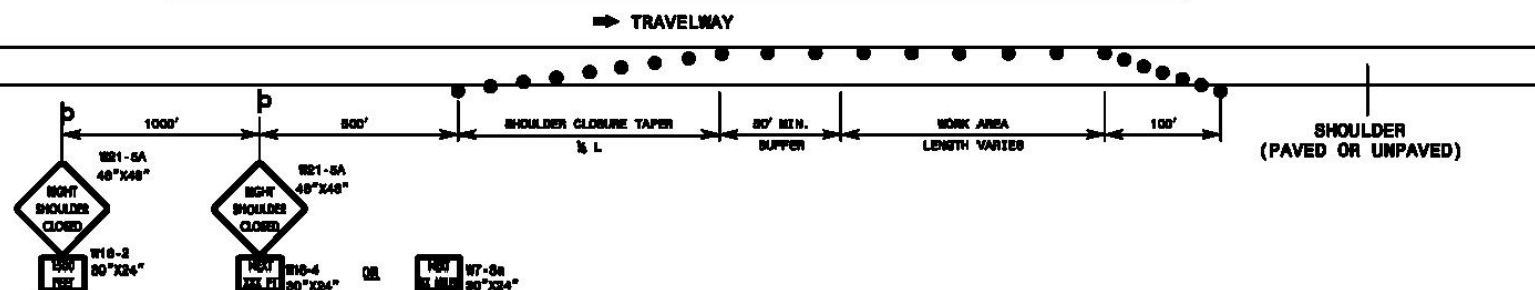
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

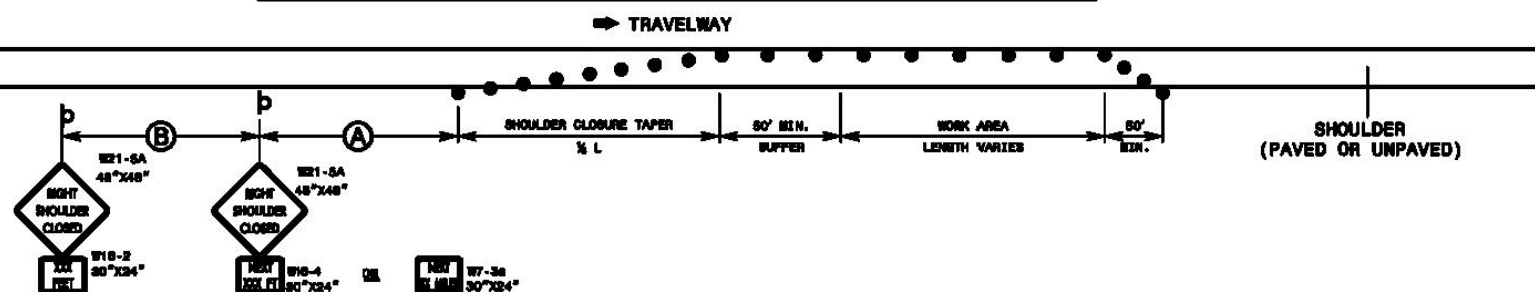
ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101.04

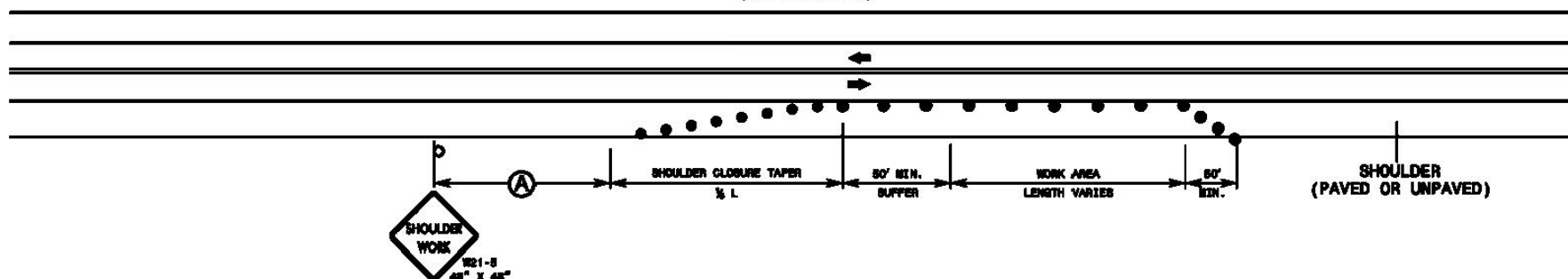
SHOULDER CLOSURE ON CONTROLLED ACCESS FACILITIES - ≥ 60 MPH



SHOULDER CLOSURE ON DIVIDED FACILITIES - ≤ 55 MPH



SHOULDER CLOSURE ON UNDIVIDED ROADWAYS (SEE NOTE 5)



GENERAL NOTES

- 1- PLACE SHOULDER CLOSURE SIGNS ON THE SAME SIDE AS THE SHOULDER THAT IS CLOSED.
- 2- PLACE DRUMS IN THE SHOULDER TAPER AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MAXIMUM SPACING OF DRUMS ALONG THE WORK AREA IS EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 3- USE STATIONARY SIGNS FOR LONG TERM OPERATIONS (LONGER THAN 3 DAYS).
- 4- REFER TO STD. 1101.11 FOR "L" DISTANCE AND SIGN SPACING.
- 5- THE TWO-LANE, TWO-WAY DRAWING MAY BE APPLIED TO UNDIVIDED, MULTI-LANE FACILITIES.

LEGEND

- DRUM
- ⊔ STATIONARY OR PORTABLE SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

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DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101.04

CONSTRUCTION NOTES:

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CLIENT:
MCNC
JOB TITLE:
JOB LOCATION:
DESIGNER:
R.B.
DATE: 2/24/25



0 20' 40' 60' 80' 100'
SCALE: 1"=100'

SCALE:

NTS

PLOT DATE:

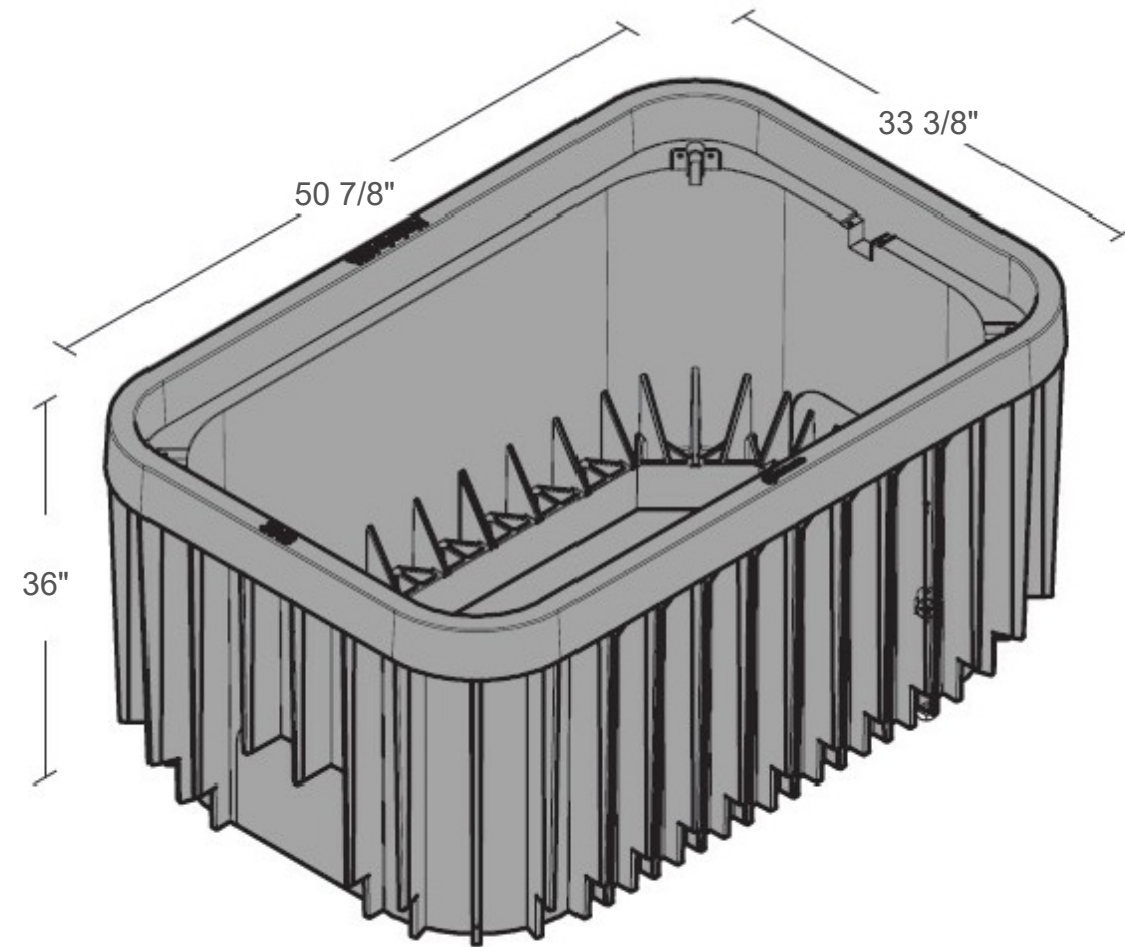
2/24/25

SHEET NUMBER:

TCC 4

FILE NAME:

hh.dwg



	A	B	C
3048-18	33 3/8"	50 7/8"	18"
3048-24	33 3/8"	50 7/8"	24"
3048-36	33 3/8"	50 7/8"	36"

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location. Based upon lid and body combination, this unit can be Tier 15 or Tier 22. T22 rating when paired with T22 polymer concrete lid.

Revision 04/2023

Options

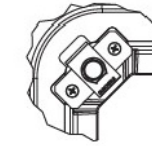
Available Covers:

- Duralite®, Flush Split Cover
- Duralite®, T-Cover Split Cover
- Polymer Concrete, Flush Solid



Fasteners:

- Hex Head Coil Thread Bolt
- Penta Head Coil Thread Bolt



- Detail: Bolt Down

Add On Options:

- Logos and Special Markings
- Marking Plate
- EMS Marker




Raw Material Specification


BODY : Material Property	Test Method	Typical Value¹
Density	ASTM D1505	0.960 to 0.980, g/cm³
Tensile Strength, at break	ASTM D638	5,500 to 7,700 psi
Flexural Modulus	ASTM D790	400,000 to 500,000 psi
Impact Resistance	ASTM D5420	60.0 in-lb

¹ The values listed for physical property measurements are nominal values only. Certain physical property measurements are subject to variations consistent with the test methods and are within a generally accepted range for such values.

Material & Style

Composite
Straight Wall

 **Medium Duty**
ANSI/SCTE TIER 15

 **Heavy Duty**
ANSI/SCTE TIER 22

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.

 **WARNING:** Cancer - www.P65Warnings.ca.gov

Product modifications, including but not limited to, cutting for conduit access, or "mouseholes" may alter ratings and product performance listed within this document unless stated otherwise.

All information contained on this sheet is current at the time of publication. Oldcastle reserves the right to discontinue or update product information without notice.

Options

Mouseholes/Knockouts

CONSTRUCTION NOTES:

*** ALL HH'S TO BE PLACED ON THIS PROJECT ARE 3048-36 HEAVY DUTY ANSI/SCTE TIER 22**

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CLIENT:
MCNC
JOB TITLE:
MCNC - PROJECT STORM
JOB LOCATION:
NORTH CAROLINA
DESIGNER:
RB
DATE:
4/24/2025



SCALE:

PLOT DATE:

4/24/2025

SHEET NUMBER:





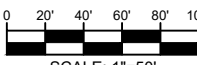
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FILE NAME:

MCNC Project Storm.dwg



Customer _____
Description _____
Job No. _____
Proof No. _____ Date Sent _____
PLEASE REVIEW THIS PROOF CAREFULLY! Be Sure To Mark Corrections And Alterations Clearly
<input type="checkbox"/> Proof Acceptable As Is <input type="checkbox"/> Corrections Indicated
Approved by _____ Date _____
PRO-MARK UTILITY SUPPLY CO.

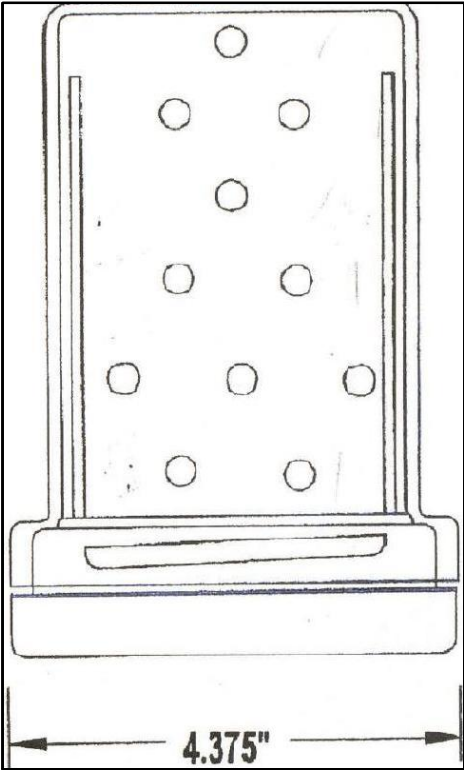
	
CONSTRUCTION NOTES:	
CONFIDENTIAL AND PROPRIETARY	
	
CLIENT: MCNC	
JOB TITLE: S1-1 CHARLOTTE TO POLKTON	
JOB LOCATION: MECKLENBURG COUNTY, NC	
DESIGNER: R.B.	
DATE: 3/25/25	
	
	
SCALE: 1" = 50'	SHEET NUMBER: A2
PLOT DATE: 3/25/25	
FILE NAME: CCART-4-RB.dwg	

PRO-MARK

UTILITY SUPPLY INC.

PRO-MARK MODEL# PM-TS3 TEST STATION

NOTE: Terminal holes are 1/4" dia. and
Suitable for 1/4-20 bolt assemblies



SPECIFICATIONS & FEATURES:

- Installs on 3" conduit
- Made of high-impact Polycarbonate Plastics
- UV Inhibited
- Doubled Terminal Board capacity
- 18.8 Stainless Steel Hardware
- Compatible with all other Top Hat designs

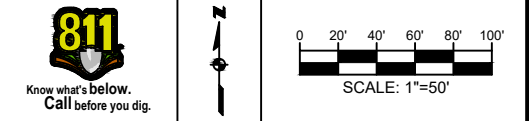
2603 PACIFIC PARK DRIVE · WHITTIER, CA 90601 · PH: (562) 692-6161 FX: (562) 692-6363



CONSTRUCTION NOTES:



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SCALE:
1" = 50'
PLOT DATE:
3/25/25
SHEET NUMBER:
A3

FILE NAME:
CCART-4-R8.dwg