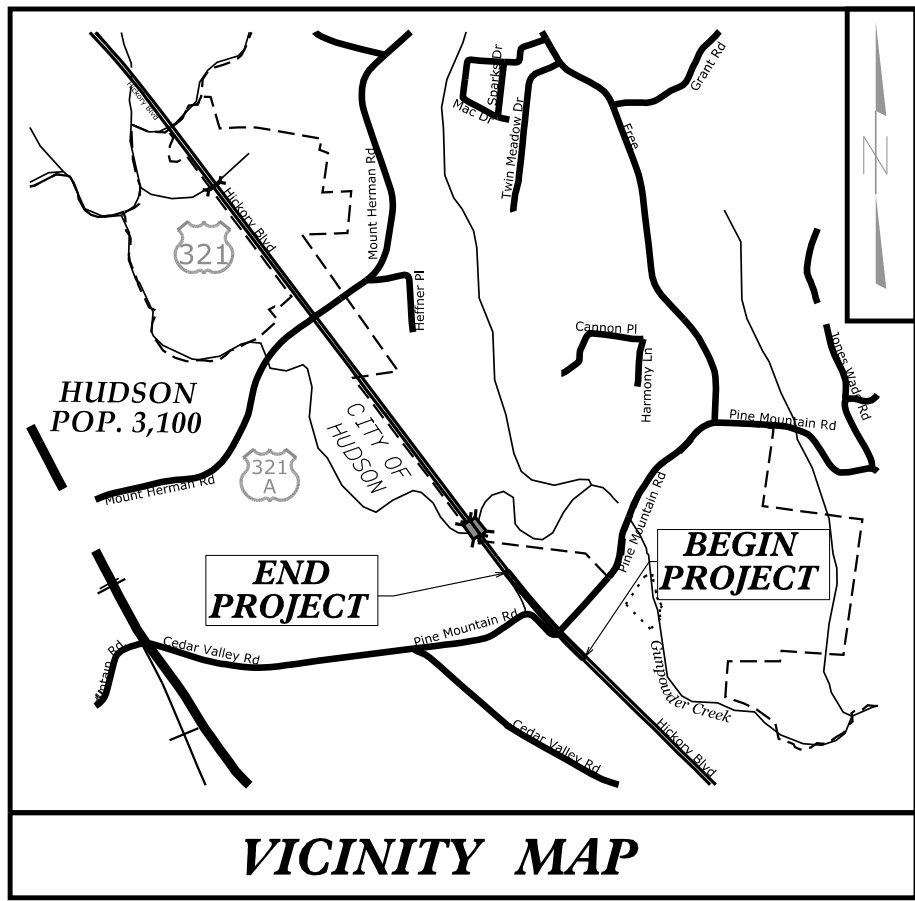


10/25/18
UPDATED WATER & SEWER 12/20/18
UPDATED UTIL DSN 7/19/19
UPDATED UTIL DSN 8/6/19
UPDATED UBO SHEETS 3/27/20
UPDATED DUKE DESIGN 12/20/21
UPDATED SEGRA & MCNC DESIGNS 4/18/22
ADDED CONTERRA DESIGNS 4/22/22

TRANSPORTATION\31535-13 U4700CB\UTILITIES\U4700CB_PSH01_UO-01.DGN

TIP PROJECT: U-4700CB



VICINITY MAP

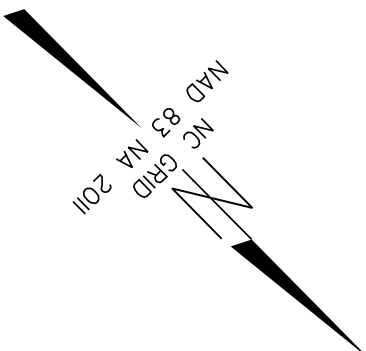
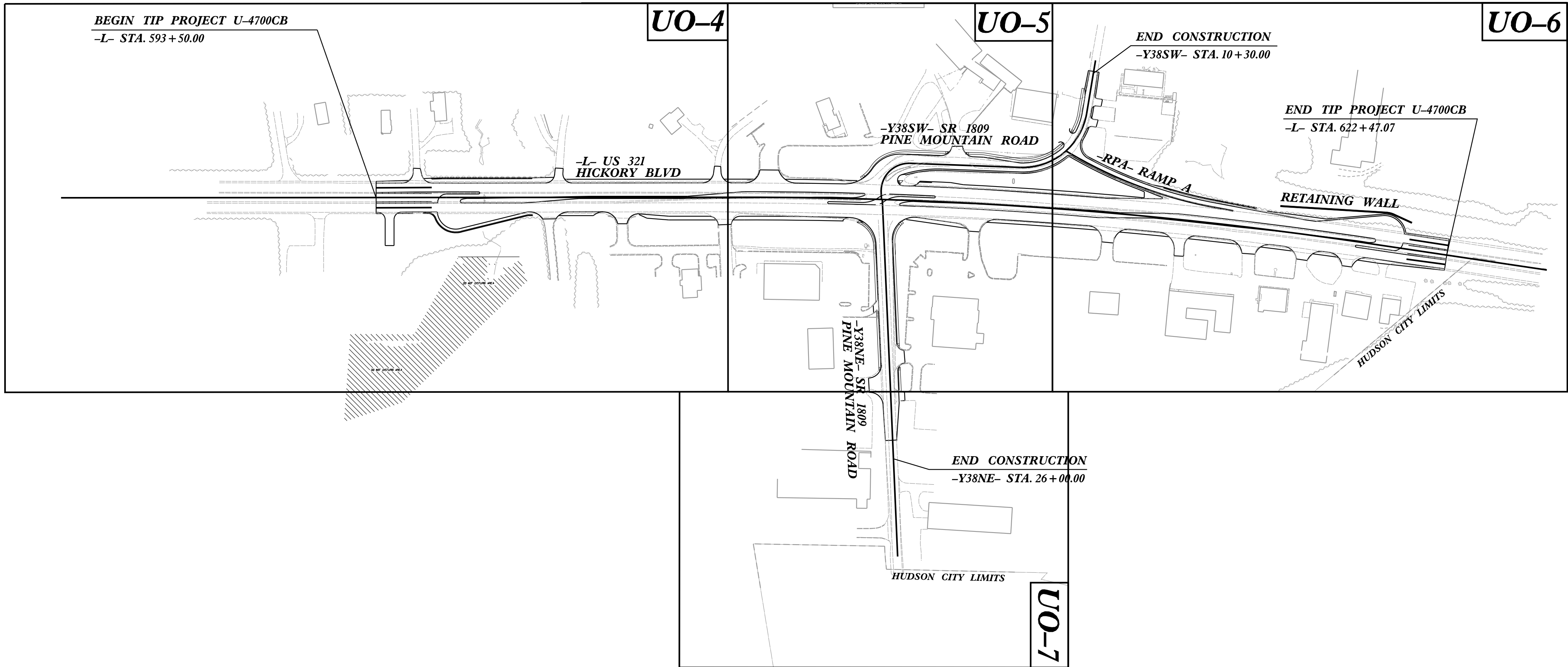
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
CALDWELL COUNTY

LOCATION: US 321 (HICKORY BLVD.) AT SR 1809 (PINE MOUNTAIN ROAD)
TYPE OF WORK: RELOCATION OF POWER, TELEPHONE, GAS AND FIBER

T.I.P. NO.	SHEET NO.
U-4700CB	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	UBO SYMBOLOGY SHEET
UO-3	RDY SYMBOLOGY SHEET
UO-4 THRU UO-7	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

- (A) POWER - DUKE ENERGY
- (B) GAS - PIEDMONT NATURAL GAS
- (C) TELECOMMUNICATIONS - AT&T
- (D) CATV - CHARTER/SPECTRUM
- (E) FIBER OPTIC - MCNC
- (F) FIBER OPTIC - CONTERRA
- (G) FIBER OPTIC - SEGRA

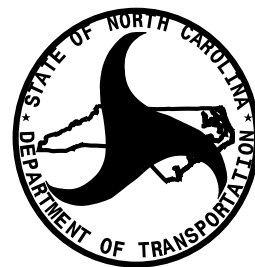
UTILITIES SHOWN ON UC SHEETS
(H) WATER & SEWER - CITY OF LENOIR
(I) WATER & SEWER - CALDWELL COUNTY

PREPARED IN THE OFFICE OF:



Prepared in the Office of:
JOHNSON, MIRMIRAN, & THOMPSON, INC.
2550 West Tyvola Road, Suite 120
Charlotte, NC 28217

Nick Asaro	PROJECT UTILITY MANAGER
Joe Montgomery	PROJECT UTILITY COORDINATOR
Shane Waidner	PROJECT UTILITY DESIGNER

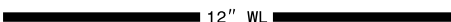


DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Ramie Shaw	PROJECT MANAGER
Warren Anderson	DIV. 12 UTILITIES COORDINATOR
Bradnon S. Greer	DIV. 11 UTILITIES COORDINATOR

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

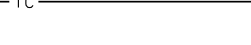
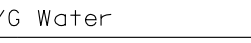
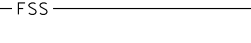
PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	
End of Information	

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

*For Existing Utilities
Utility Line Drawn from Record (Type as Shown) _____ W _____
Designated Utility Line (Type as Shown) _____ W _____

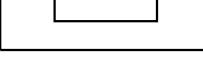
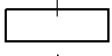
STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
U-4700CB	U0-3

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage /Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

Single Tree	
Single Shrub	

*S.U.E. = Subsurface Utility Engineering

Hedge	
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

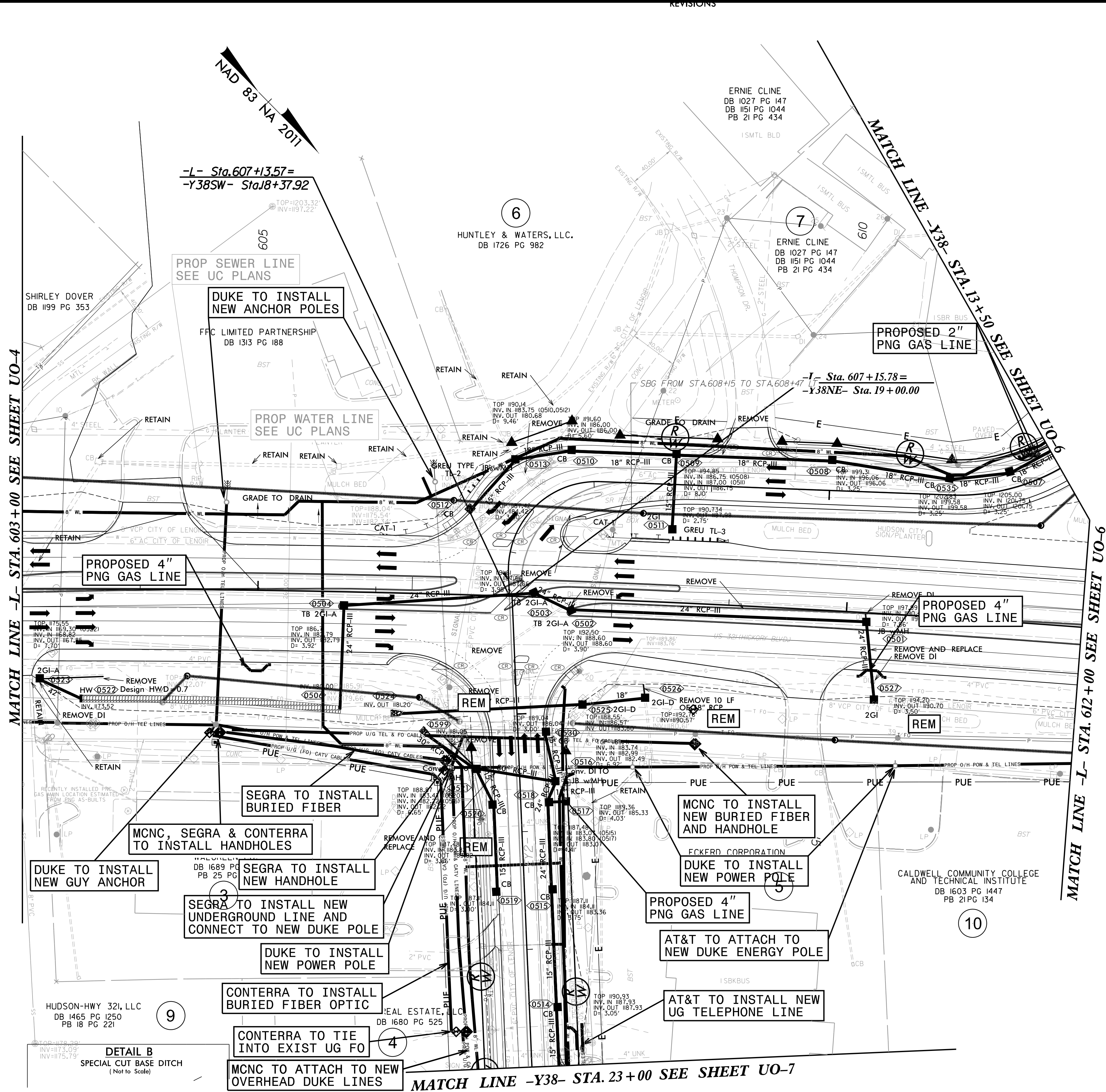
TRANSPORTATION\31535-13 U4700CB\UTILITIES\U4700CB_UT_PSH04_U0-04.DGN

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS. NO
PAYMENT WILL BE MADE TO
THE CONTRACTOR FOR
PROPOSED UTILITY WORK
SHOWN ON THIS SHEET.



10/25/18
UPDATED WATER AND SEWER 12/21/18
UPDATED UTL-DSN 7/19/19
UPDATED UTL-DSN 8/6/19
UPDATED UBO SHEETS 3/27/20
UPDATED DUKE DESIGNS 12/20/21
UPDATED MCNC & SEGRA DESIGNS 4/18/22
ADDED CONTERRA DESIGNS 4/22/22

TRANSPORTATION\31535-13_U4700CB\UTILITIES\U4700CB_UT_PSH05_UO-05.DGN



PROJECT REFERENCE NO.	SHEET NO.
U-4700CB	UO-5
THIS SHEET CORRESPONDS TO RDY-5	

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

10/25/18
UPDATED WATER & SEWER
12/25/18
UPDATED UTILITY DSN
12/25/18
UPDATED UTILITY DSN
6/16/19
UPDATED UBO SHEETS
3/27/20
UPDATED DUKE DESIGNS
12/20/21
UPDATED MCNC & SEGRA DESIGNS
4/18/22
ADDED CONTEIRA DESIGNS
4/22/22

TRANSPORTATION\31535-13_U4700CB\UTILITIES\U4700CB_UT_PSH06_UO-6.DGN

8
AES SECREAST
3 310 PG 385

DUKE TO INSTALL
NEW POWER POLE

ERNE CLINE
DB 1027 PG 147
DB 1151 PG 1044
PB 21 PG 434

ISBR BUS

BOLLARD

CONC. WALK

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BEGIN CONSTRUCTION
STA. 10+30.00

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A/C UNITS

ISBR BUS

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PROPOSED 4" PNG GAS LINE

DUKE TO INSTALL
NEW POWER POLE

11

DUKE TO INSTALL
NEW POWER POLE

-Y38SW- POC Sta. 12+62.76=
-RPA- PT Sta. 9+82.56

ISBR BUS

STATE OF NORTH CAROLINA
DB 421 PG 13

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DUKE TO INSTALL
NEW POWER POLE

10

AT&T TO INSTALL
NEW HANDHOLE

AT&T TO INSTALL
NEW TELEPHONE LINE

RECENTLY INSTALLED PNG GAS MAIN
LOCATION ESTIMATED FROM
PNG AS-BUILTS

CALDWELL COMMUNITY COLLEGE
AND TECHNICAL INSTITUTE
DB 1603 PG 1447
PB 21 PG 134

SAMUEL SWANSON
DB 1186 PG 492
DB 1135 PG 1457

ISBR BUS

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PROPOSED 4" PNG GAS LINE

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NEW POWER POLE

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DUKE TO INSTALL
NEW POWER POLE

-Y38SW- POC Sta. 12+62.76=
-RPA- PT Sta. 9+82.56

ISBR BUS

STATE OF NORTH CAROLINA
DB 421 PG 13

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AT&T TO INSTALL
NEW HANDHOLE

AT&T TO INSTALL
NEW TELEPHONE LINE

RECENTLY INSTALLED PNG GAS MAIN
LOCATION ESTIMATED FROM
PNG AS-BUILTS

CALDWELL COMMUNITY COLLEGE
AND TECHNICAL INSTITUTE
DB 1603 PG 1447
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SAMUEL SWANSON
DB 1186 PG 492
DB 1135 PG 1457

ISBR BUS

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PROPOSED 4" PNG GAS LINE

DUKE TO INSTALL
NEW POWER POLE

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DUKE TO INSTALL
NEW POWER POLE

-Y38SW- POC Sta. 12+62.76=
-RPA- PT Sta. 9+82.56

ISBR BUS

STATE OF NORTH CAROLINA
DB 421 PG 13

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NAD 83 NA 2011

CALDWELL COUNTY
DB 1567 PG 1123

CL 'B' RIPRAP
2 TONS
7 SYGF

CL 'B' RIPRAP
2 TONS
7 SYGF

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10/25/18
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UPDATED MCNC & SEGRA DESIGNS 4/18/22
ADDED CONTEERRA DESIGNS 4/22/22

TRANSPORTATION\31535-13 U4700CB\UTIL\TIES\U4700CB.UT PS407 UD-07.DGN

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-4700CB	UO-7
THIS SHEET CORRESPONDS TO RDY-7	

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

