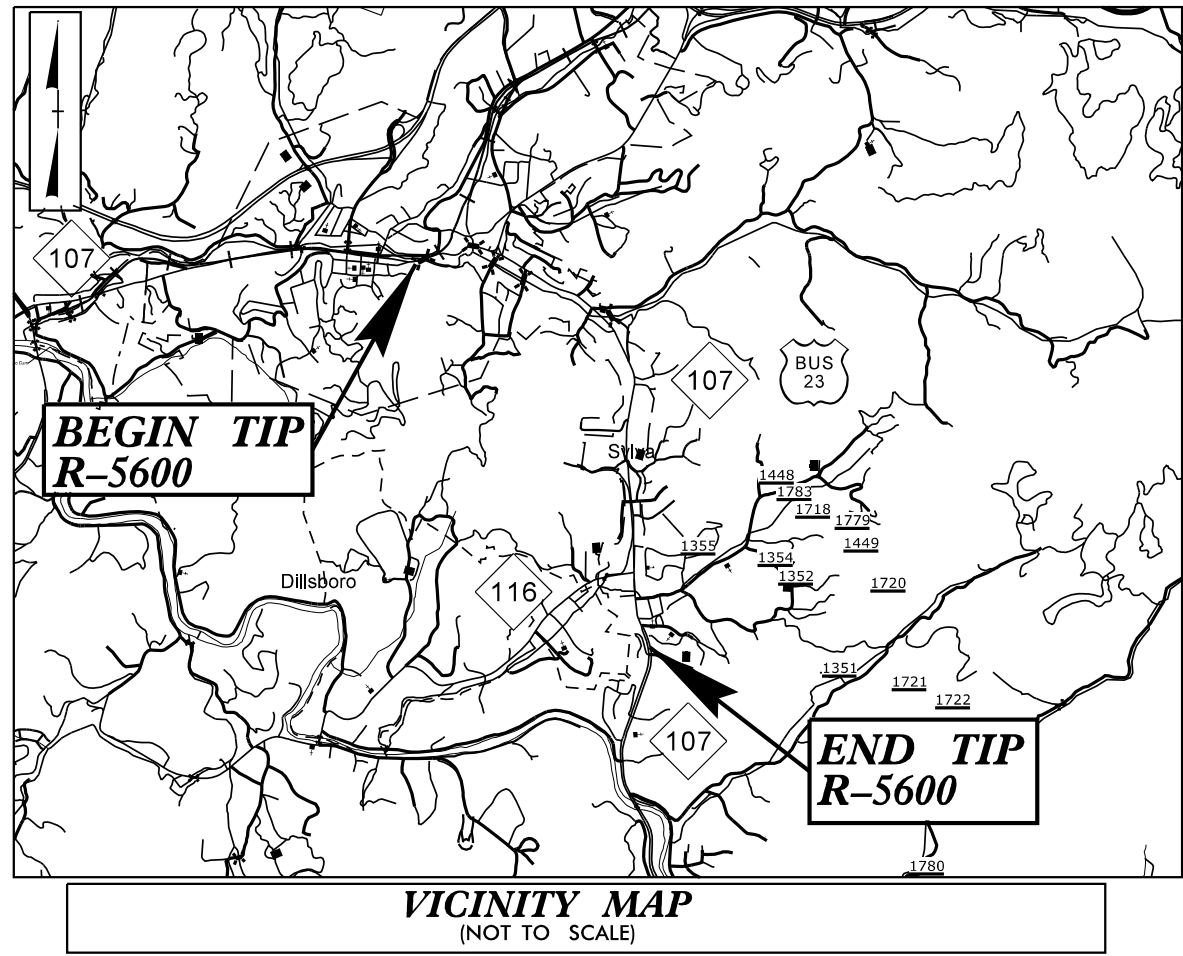


TIP PROJECT: R-5600



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

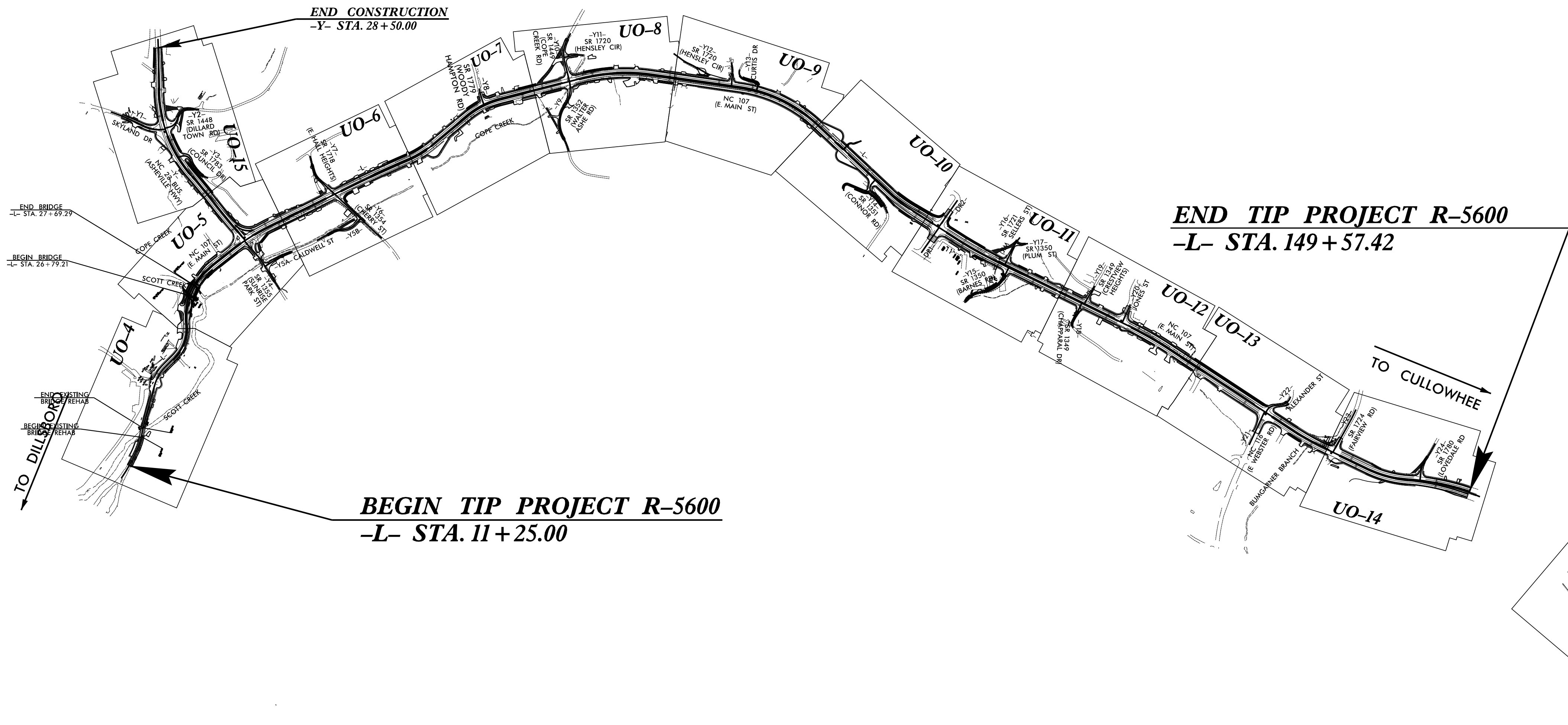
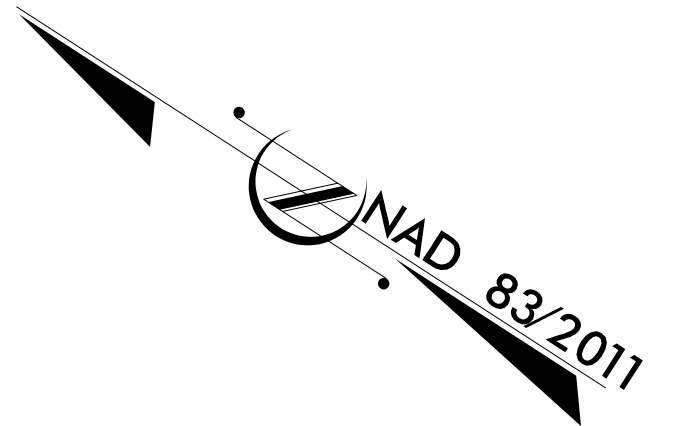
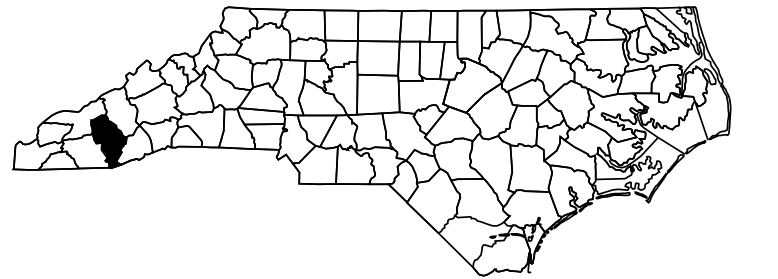
JACKSON COUNTY

LOCATION: N.C. 107 FROM WEST OF U.S. 23 BUSINESS
(ASHEVILLE HIGHWAY) TO SOUTH OF N.C. 116
(WEBSTER ROAD) AND U.S. 23 BUSINESS FROM
SKYLAND DRIVE TO WEST OF MUNICIPAL DRIVE

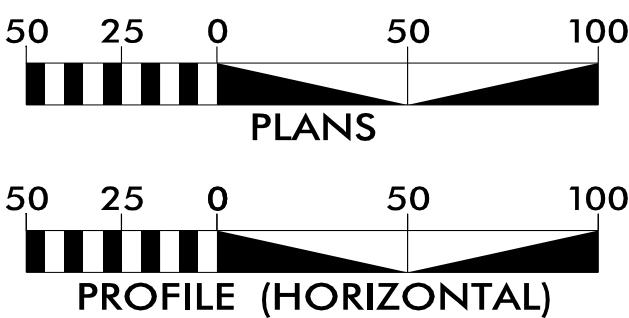
TYPE OF WORK: RELOCATION OF POWER, GAS, TELEPHONE,
FIBER, AND CABLE TV

T.I.P. NO.	SHEET NO.
R-5600	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.:

UO-1

UO-2

UO-3

UO-4 THRU UO-15

DESCRIPTION:

TITLE SHEET

UBO PLAN SHEETS

OMITTED

UBO SHEETS

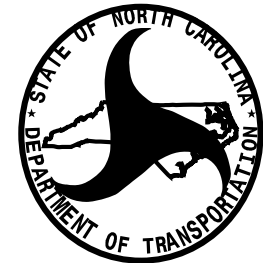
- A) POWER - DUKE ENERGY
(B) TELECOMMUNICATIONS - FRONTIER COMM.
(C) CABLE TV - OPTIMUM
(D) FIBER - BALSAMWEST FIBERNET(BWFN)
(E) GAS - ENBRIDGE
(F) CATV - SPECTRUM
(G) FIBER - ERC

UTILITIES SHOWN ON UC PLANS
(H) WATER - TUCKASEIGEE WATER AND SEWER
(I) SEWER - TUCKASEIGEE WATER AND SEWER



Prepared in the Office of:
JOHNSON, MIRMIRAN, & THOMPSON, INC.
1318-F Patton Ave.
Asheville, NC 28806

NICHOLAS ASARO UTILITY PROJECT MANAGER
JAMES MONTGOMERY PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS
UTILITIES UNIT

DIVISION OF HIGHWAYS
DIVISION 14
253 WEBSTER ROAD
SYLVIA, NC 28779
PHONE (828) 331-5200
FAX (828) 331-5201

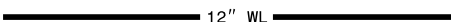
BOB GOLDING UTILITIES ENGINEER
ROBERT WILCOX UTILITIES COORDINATOR
ROBERT DYER UTILITIES AREA COORDINATOR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

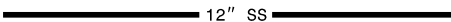
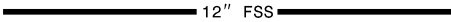
PROJECT REFERENCE NO.	SHEET NO.
R-5600	U0-2

UTILITIES PLAN SHEET SYMBOLS

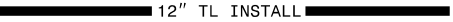
PROPOSED WATER SYMBOLS

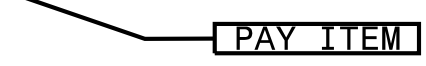
Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter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

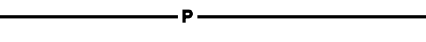
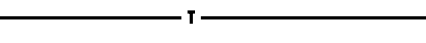
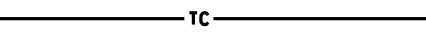
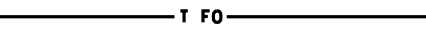
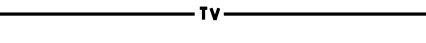
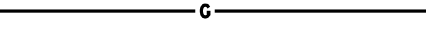
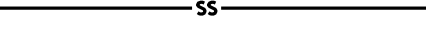
PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

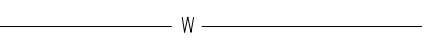
Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

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) 
Designated Utility Line (Type as Shown) 

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

PROJECT REFERENCE NO.	SHEET NO.
R-5600	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	

Note: Not to Scale

*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	

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.

BEGIN RETAINING WALL 22
-Y- STA. 14+84.44.75' RT
MAX HEIGHT 23'
SOIL NAIL/SOLDIER PILE

-L- STA. 33+43.80 =
-Y- STA. 10+00.00

-L- STA. 34+44.83 =
-YS- STA. 10+00.00

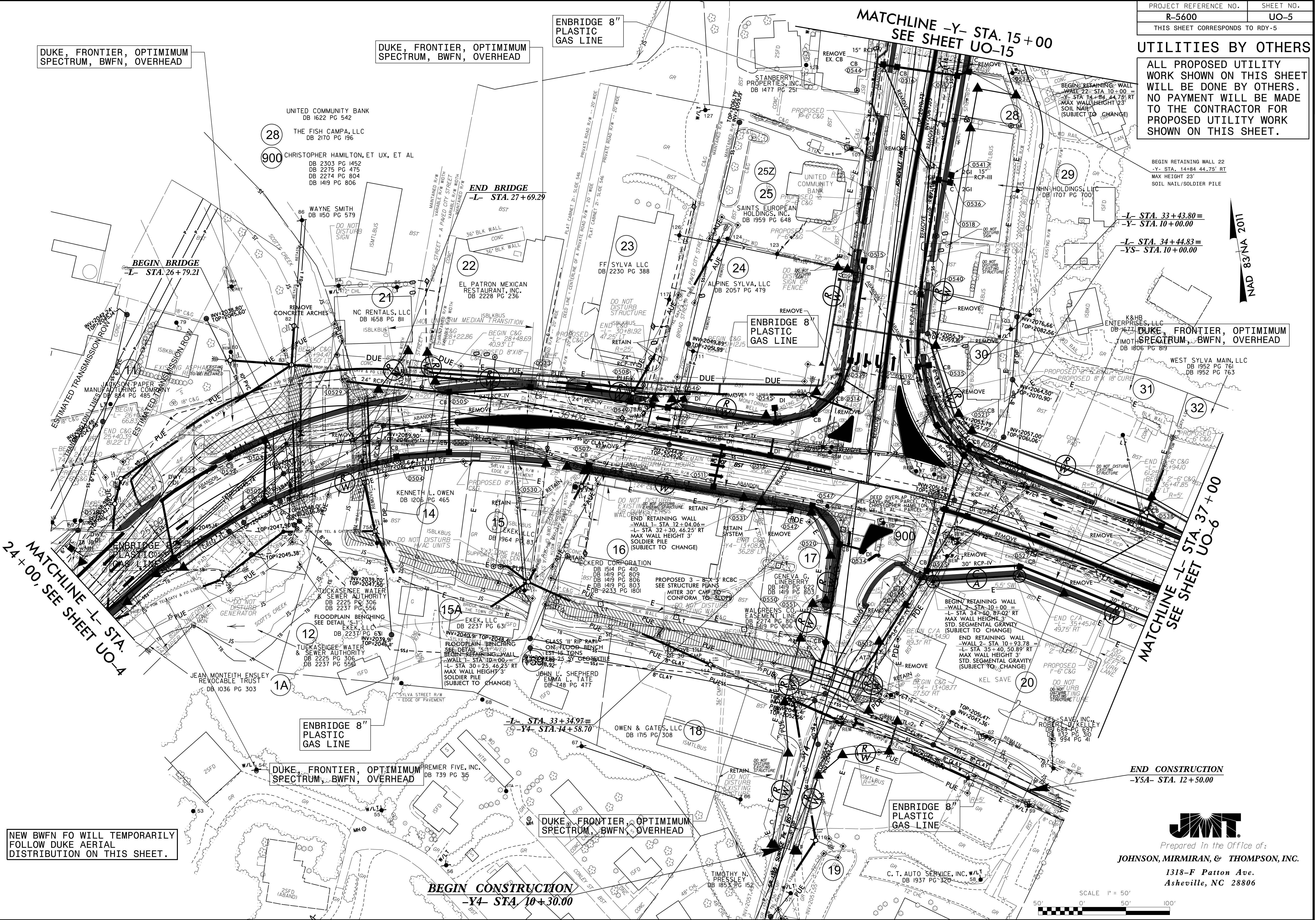
DUKE, FRONTIER, OPTIMUM
SPECTRUM, BWFN, OVERHEAD

END CONSTRUCTION
-YSA- STA. 12+50.00



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1318-F Patton Ave.
Asheville, NC 28806

SCALE 1" = 50'
50' 0' 50' 100'

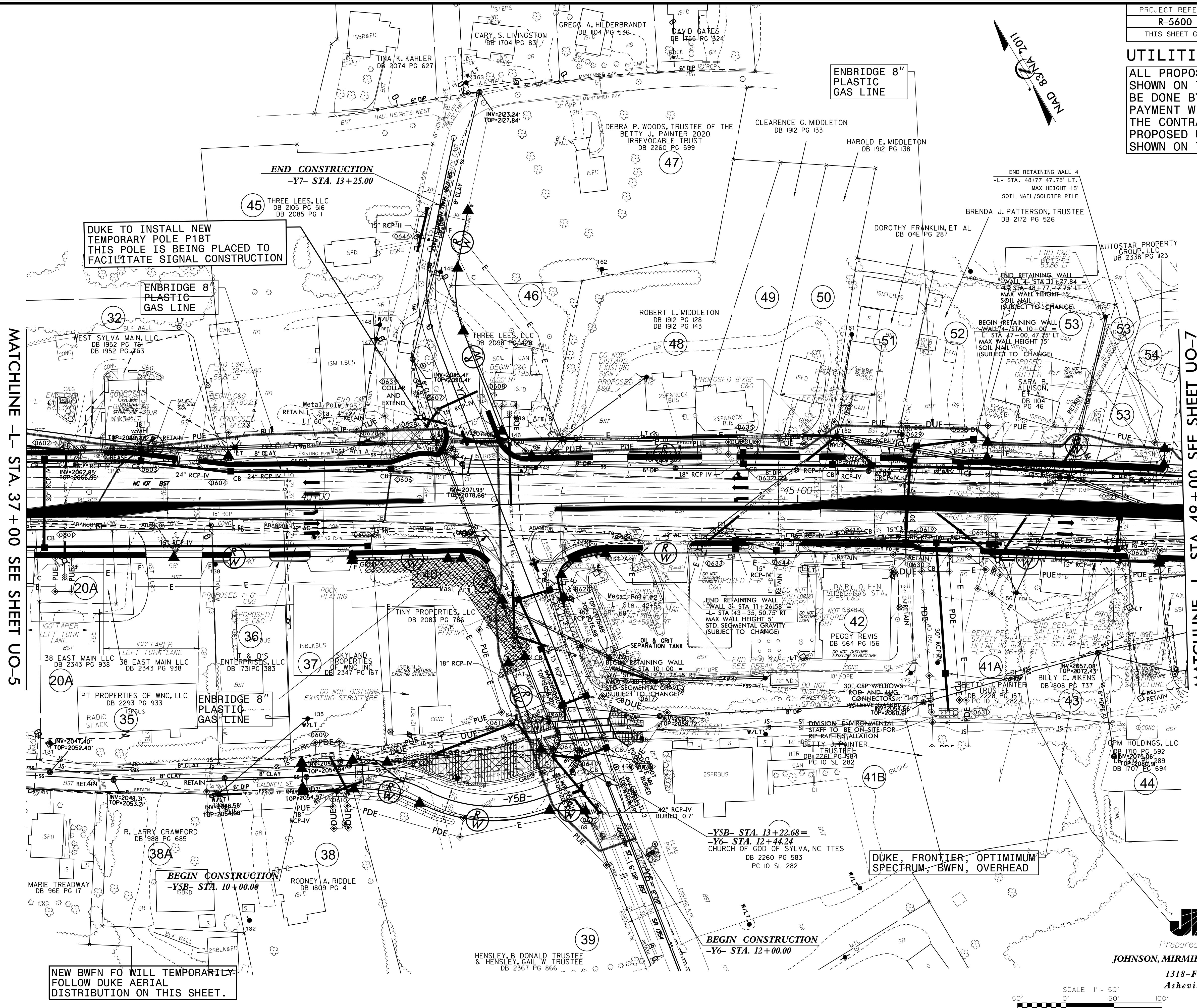


NEW BWFN FO WILL TEMPORARILY FOLLOW DUKE AERIAL DISTRIBUTION ON THIS SHEET.

BEGIN CONSTRUCTION
-Y4- STA. 10+30.00

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.



MATCHLINE -L- STA. 37 + 00 SEE SHEET UO-5

MATCHLINE -L- STA. 49 + 00 SEE SHEET UO-7



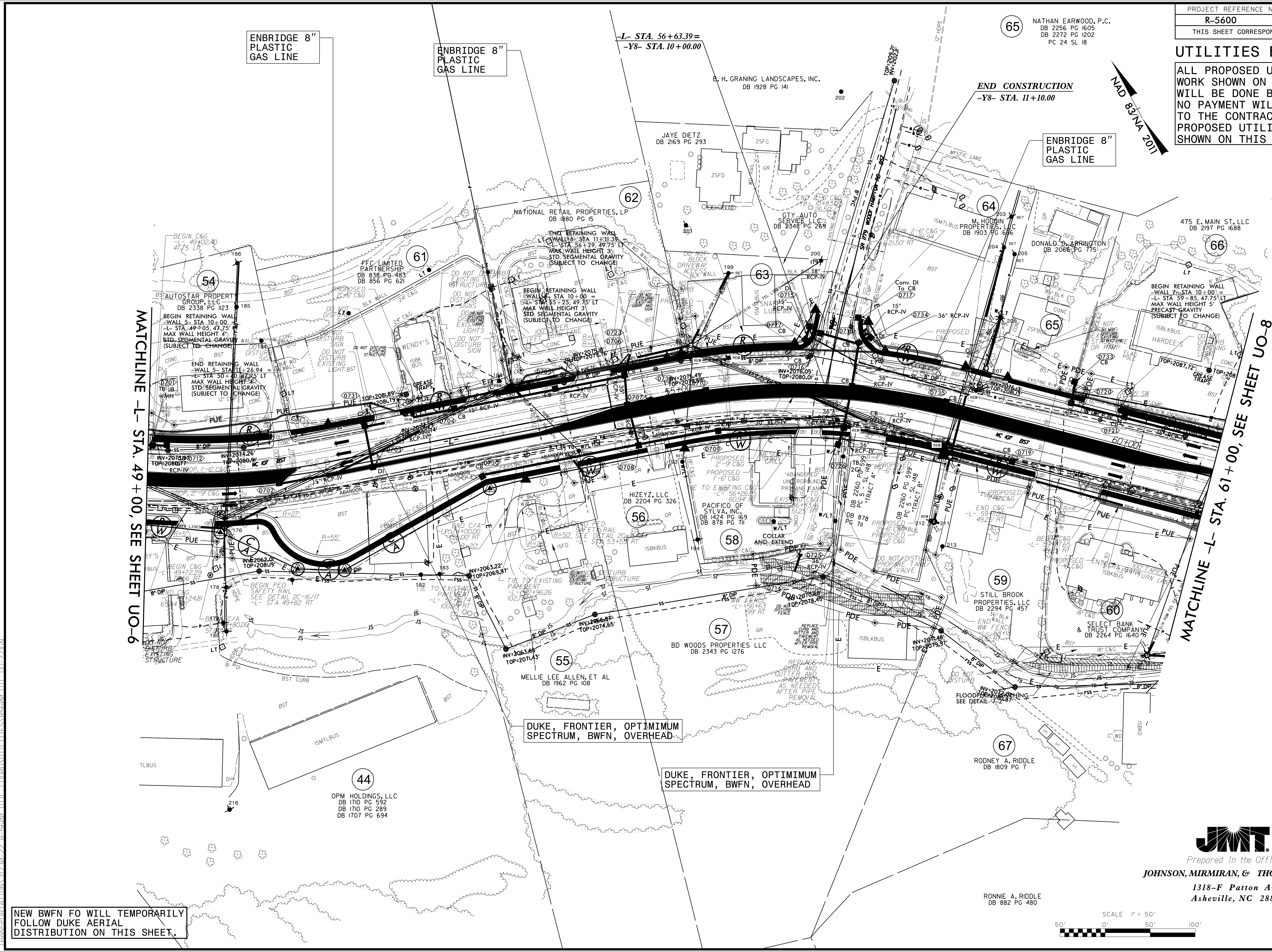
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Asheville, NC 28806



NEW BWFN FO WILL TEMPORARILY FOLLOW DUKE AERIAL DISTRIBUTION ON THIS SHEET.

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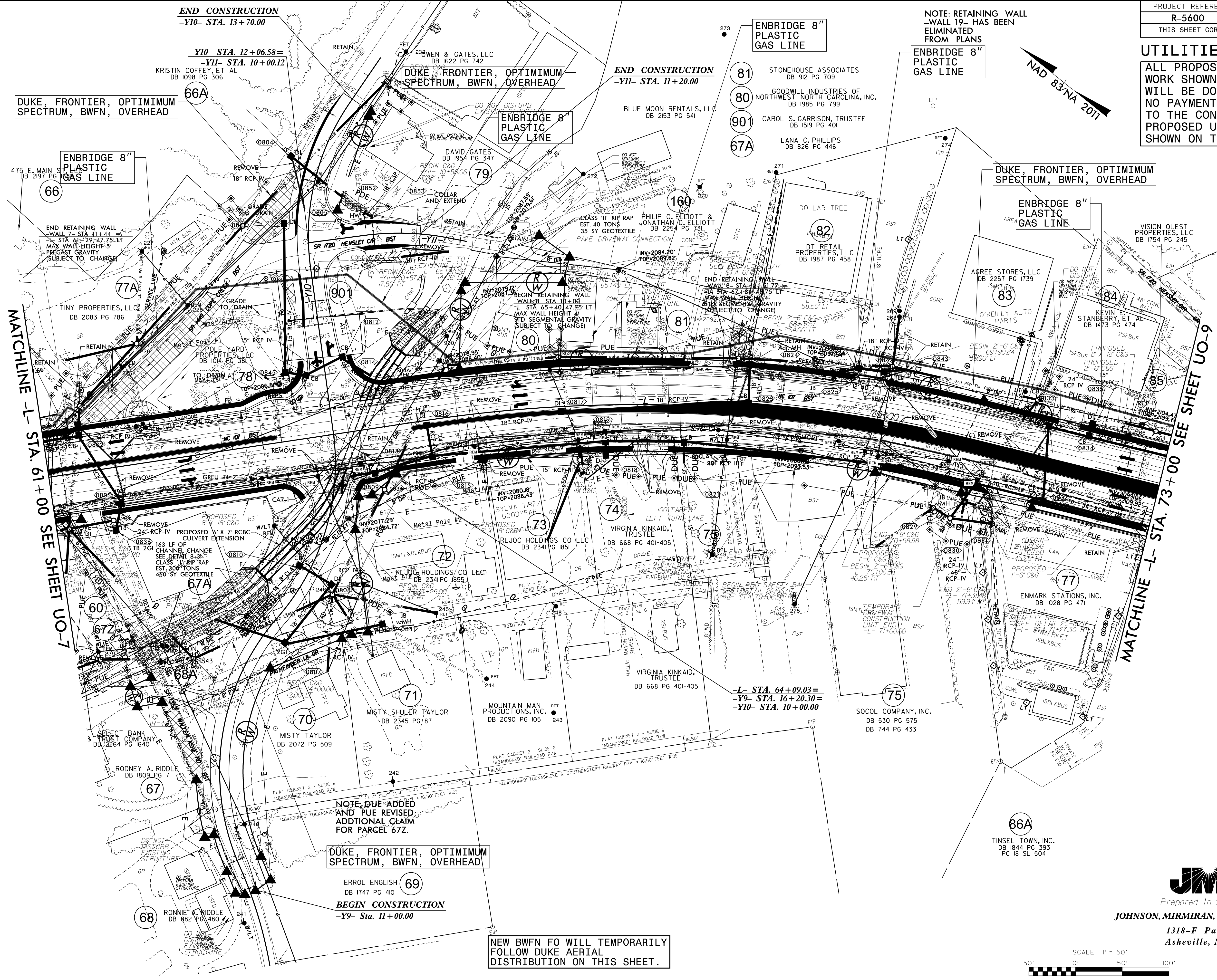


NEW BWFN FO WILL TEMPORARILY FOLLOW DUKE AERIAL DISTRIBUTION ON THIS SHEET.

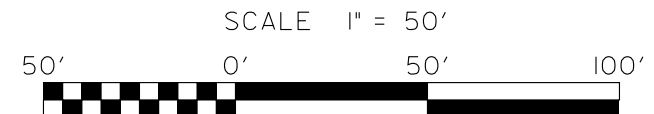


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Asheville, NC 28806



UTILITIES BY OTHERS

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NOTE: RETAINING WALL -WALL 9- HAS BEEN ELIMINATED FROM PLANS

DUKE, FRONTIER, OPTIMUM SPECTRUM, BWFN, OVERHEAD

BEGIN CONSTRUCTION
-Y12- STA. 11+30.00

NOTE: ADDITIONAL ROW, PUE, & TCE REQUIRED FOR REVISIONS. ADDITIONAL CLAIM FOR PARCEL 95A.

DUKE, FRONTIER, OPTIMUM SPECTRUM, BWFN, OVERHEAD

NAD 83/NA 2011

END CONSTRUCTION
-Y13- STA. 11+08.00

ENBRIDGE 8" PLASTIC GAS LINE

ENBRIDGE 8" PLASTIC GAS LINE

ENBRIDGE 8" PLASTIC GAS LINE

ENBRIDGE 8" PLASTIC GAS LINE

-L- STA. 77+86.84=
Y13- STA. 10+00.00

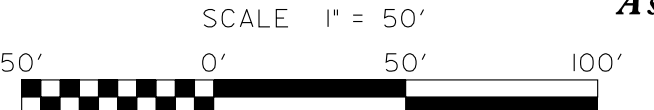
DUKE, FRONTIER, OPTIMUM SPECTRUM, BWFN, OVERHEAD

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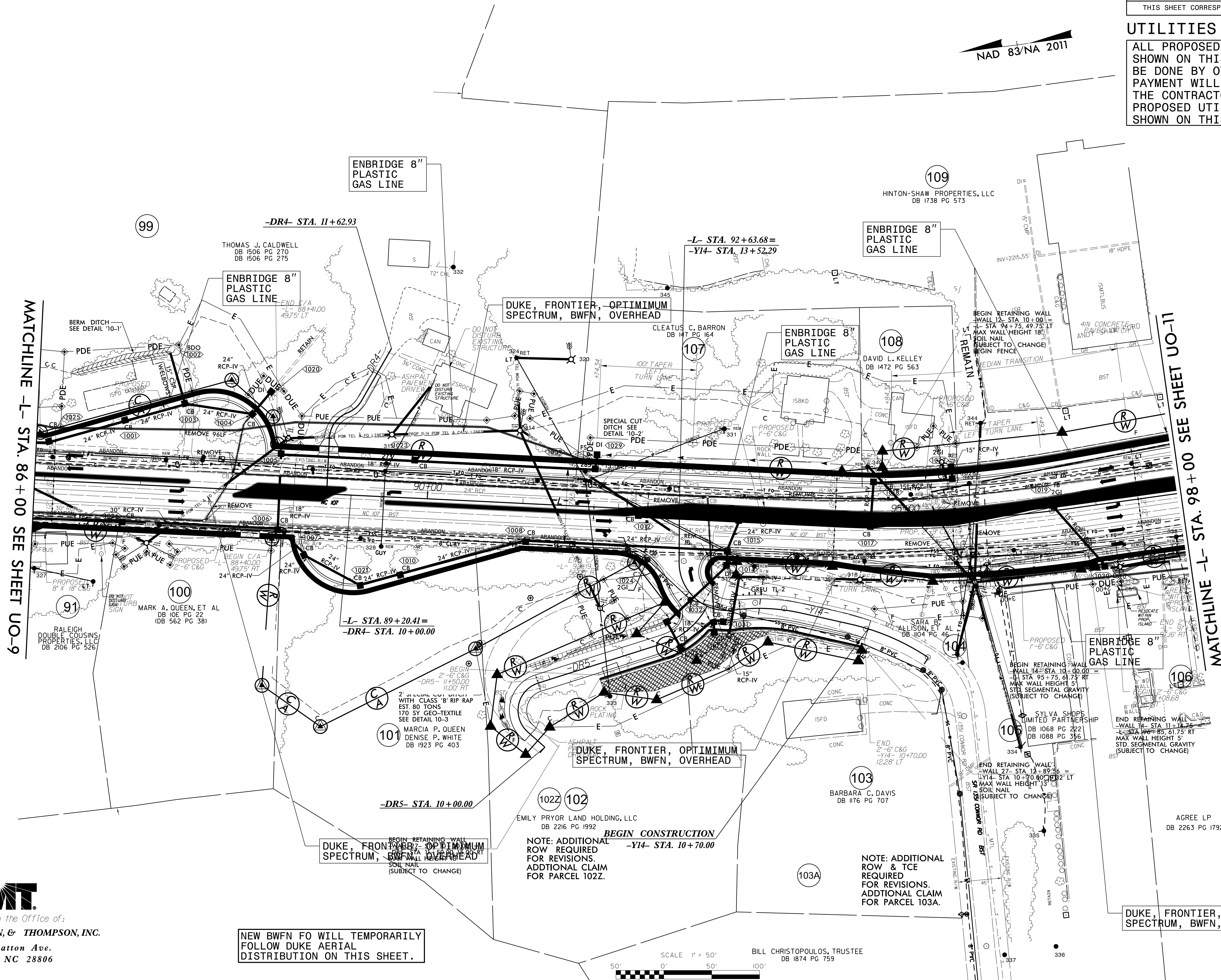
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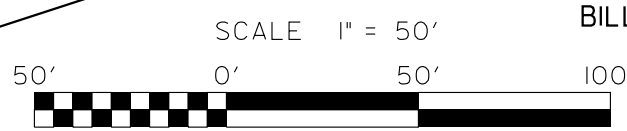


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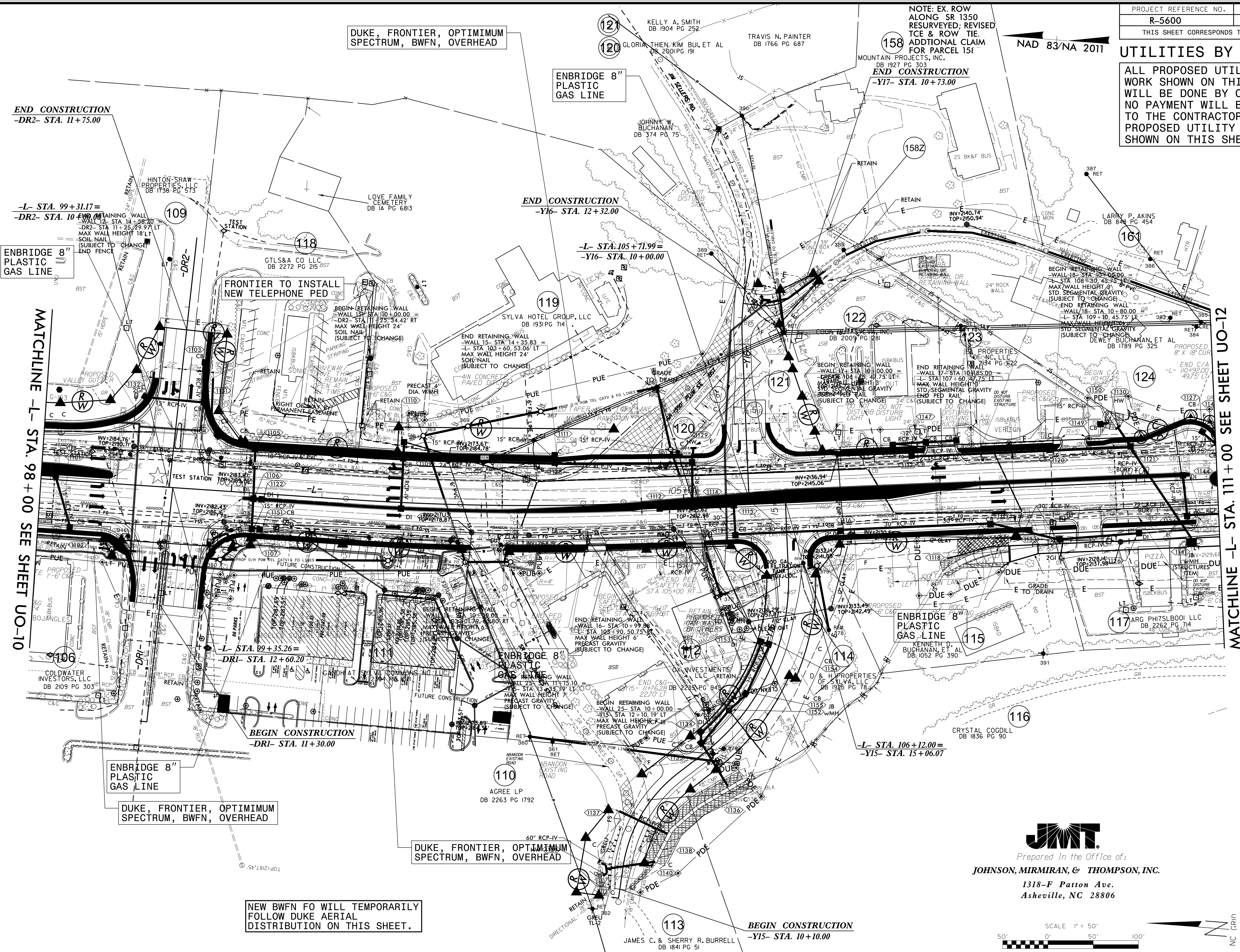
NEW BWFN FO WILL TEMPORARILY FOLLOW DUKE AERIAL DISTRIBUTION ON THIS SHEET.



BILL CHRISTOPOULOS, TRUSTEE
DB 1874 PG 759

UTILITIES BY OTHERS

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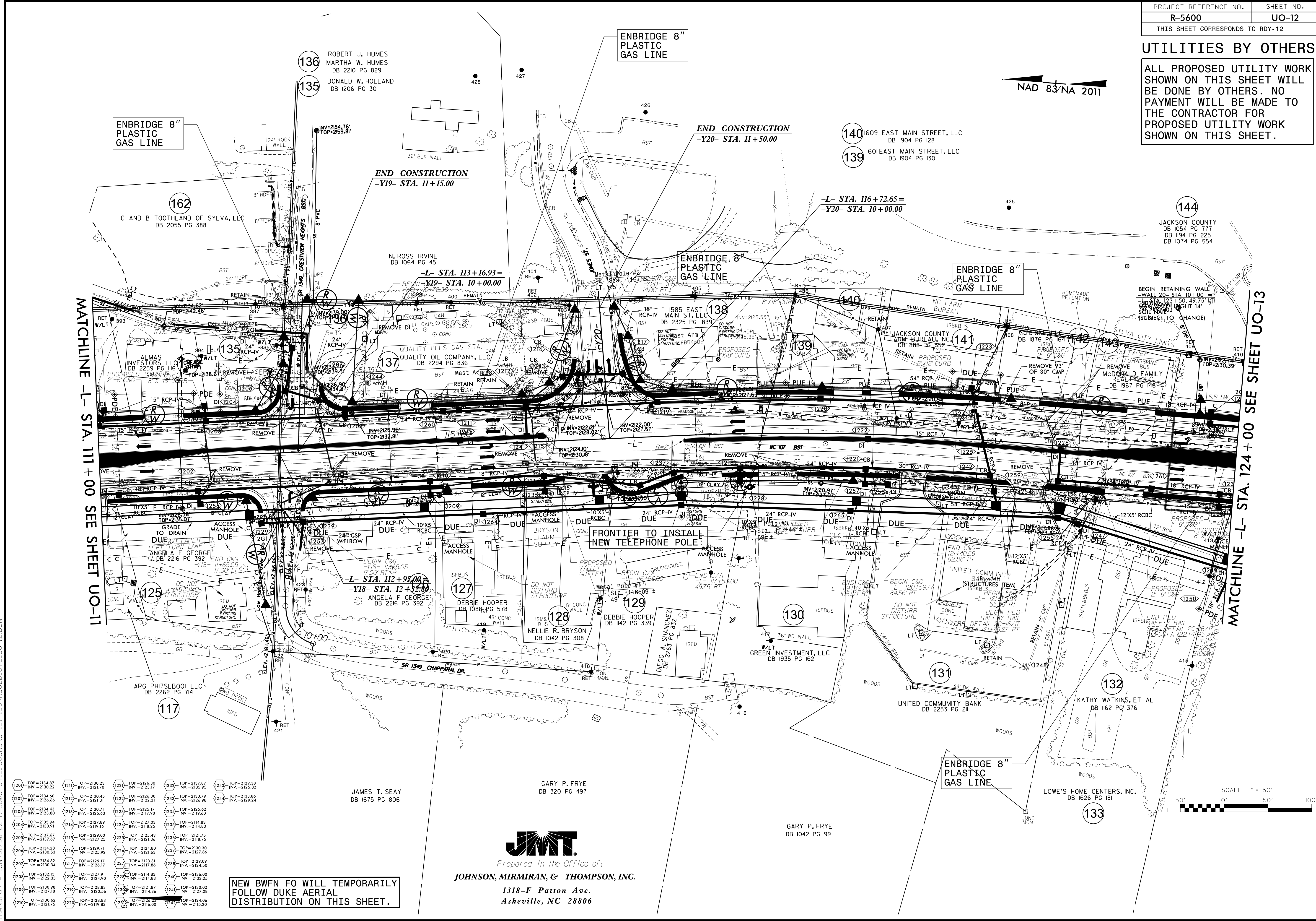
JMT
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1318-F Patton Ave.
Asheville, NC 28806



TRANSPORTATION 31730-22 R-5600 UTIL. COORD. UTILITIES R5600 UTIL. UO-11.DGN

UTILITIES BY OTHERS

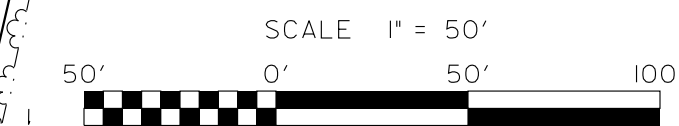
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



1201	TOP=2134.87 INV.=2130.22	1211	TOP=2130.23 INV.=2121.70	1221	TOP=2126.30 INV.=2117.37	1231	TOP=2137.87 INV.=2125.82	1241	TOP=2129.38 INV.=2117.82
1202	TOP=2134.60 INV.=2126.66	1212	TOP=2130.45 INV.=2121.31	1222	TOP=2126.30 INV.=2117.37	1232	TOP=2137.79 INV.=2125.98	1242	TOP=2129.38 INV.=2117.82
1203	TOP=2134.43 INV.=2123.80	1213	TOP=2130.71 INV.=2121.58	1223	TOP=2125.17 INV.=2116.83	1233	TOP=2137.62 INV.=2125.62	1243	TOP=2129.38 INV.=2117.82
1204	TOP=2135.94 INV.=2122.55	1214	TOP=2127.89 INV.=2118.16	1224	TOP=2127.03 INV.=2117.37	1234	TOP=2114.83 INV.=2103.91	1244	TOP=2129.38 INV.=2117.82
1205	TOP=2137.67 INV.=2127.25	1215	TOP=2129.09 INV.=2117.25	1225	TOP=2125.43 INV.=2116.83	1235	TOP=2121.75 INV.=2116.83	1245	TOP=2129.38 INV.=2117.82
1206	TOP=2134.28 INV.=2130.53	1216	TOP=2129.71 INV.=2125.92	1226	TOP=2124.80 INV.=2121.63	1236	TOP=2130.30 INV.=2127.86	1246	TOP=2129.38 INV.=2117.82
1207	TOP=2134.32 INV.=2130.54	1217	TOP=2129.17 INV.=2126.17	1227	TOP=2123.31 INV.=2118.66	1237	TOP=2129.09 INV.=2124.50	1247	TOP=2129.38 INV.=2117.82
1208	TOP=2132.15 INV.=2122.55	1218	TOP=2127.91 INV.=2124.90	1228	TOP=2114.83 INV.=2114.83	1238	TOP=2136.00 INV.=2133.25	1248	TOP=2129.38 INV.=2117.82
1209	TOP=2130.98 INV.=2127.18	1219	TOP=2128.83 INV.=2120.56	1229	TOP=2121.87 INV.=2114.36	1239	TOP=2130.02 INV.=2127.08	1249	TOP=2129.38 INV.=2117.82
1210	TOP=2130.42 INV.=2121.75	1220	TOP=2128.83 INV.=2119.83	1230	TOP=2128.83 INV.=2119.83	1240	TOP=2124.06 INV.=2115.20		

NEW BWFN FO WILL TEMPORARILY FOLLOW DUKE AERIAL DISTRIBUTION ON THIS SHEET.

JMT
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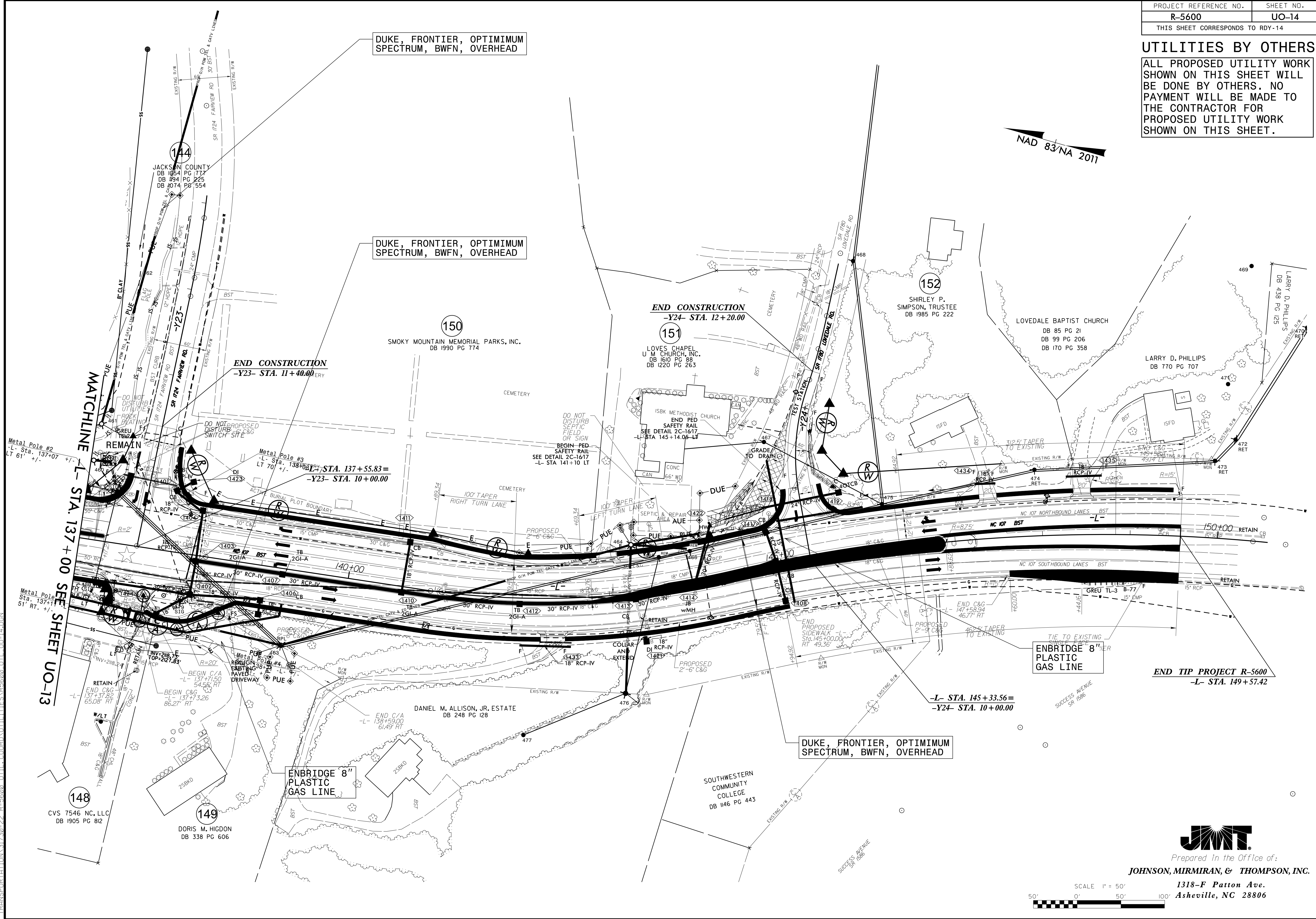
UTILITIES BY OTHERS



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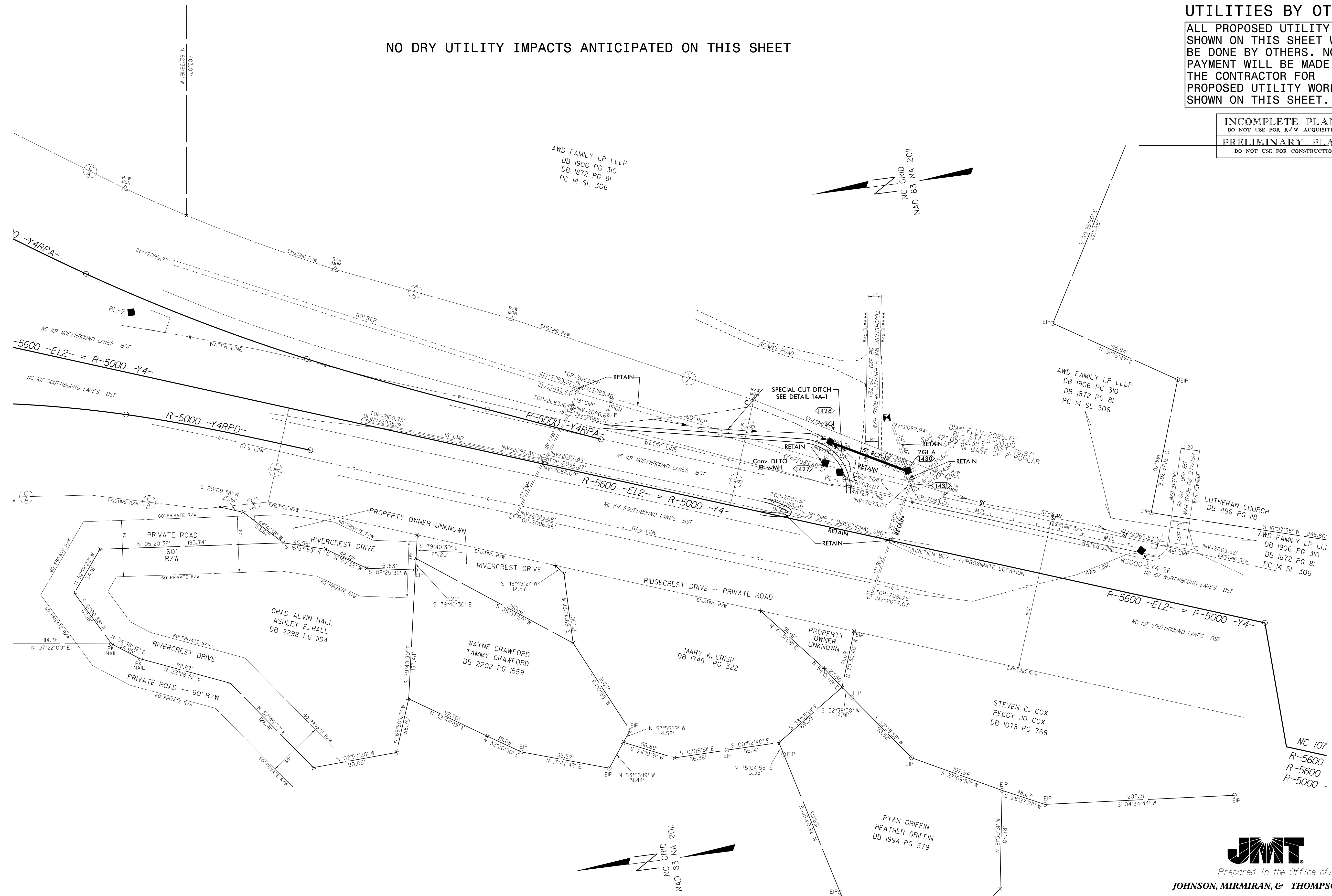


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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
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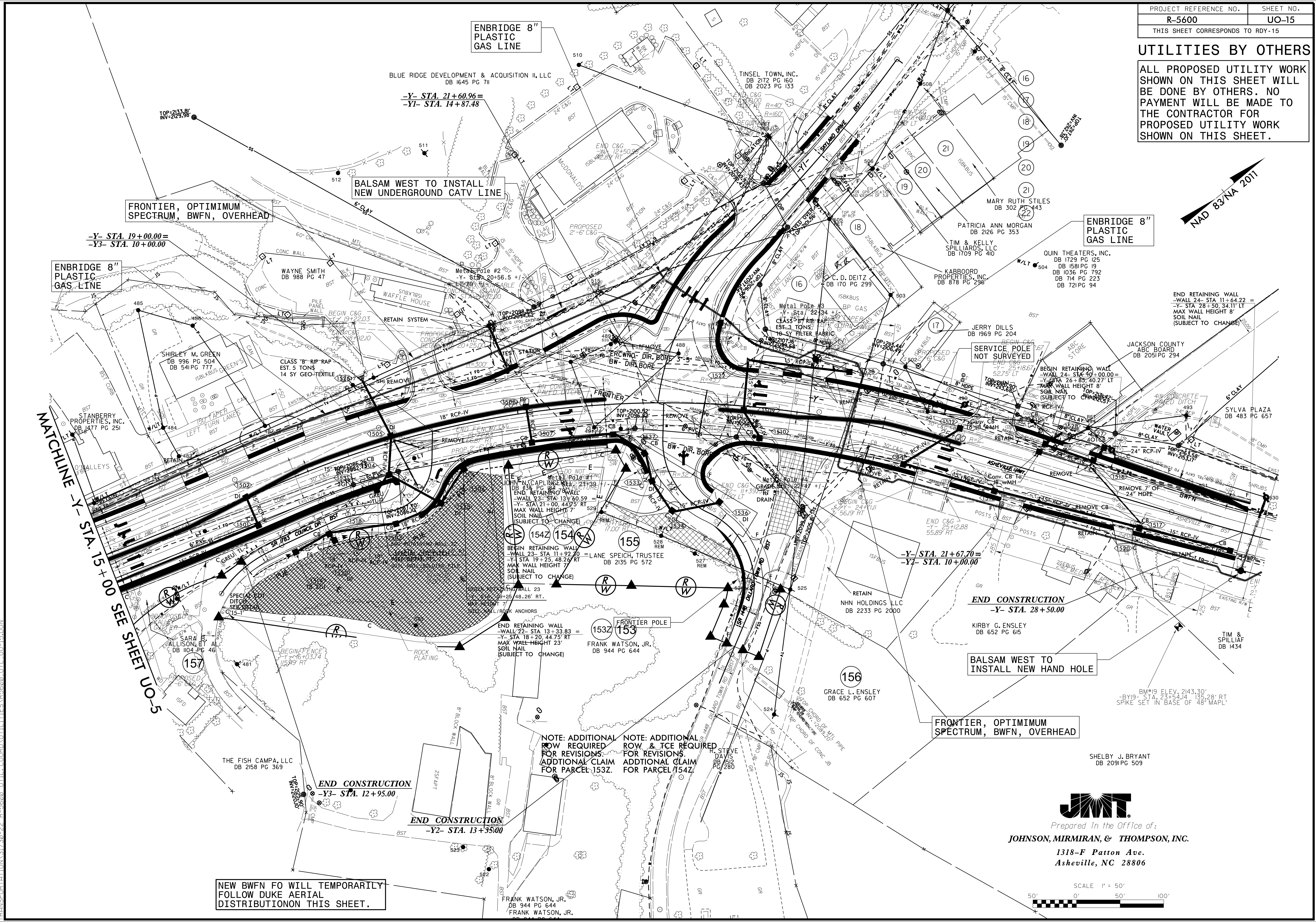
NO DRY UTILITY IMPACTS ANTICIPATED ON THIS SHEET



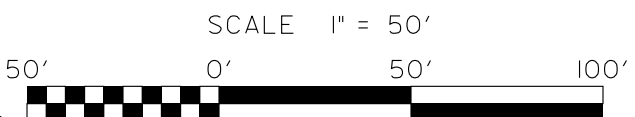
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