

TGSL1V1022

COMPUTED BY: Zachary J. Richard, PE DATE: 2/28/2022
CHECKED BY: David B. Petty, PE DATE: 8/26/2024

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-2307B SHEET NO. 3D-28

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Remarks. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing codes like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding descriptions.

TGSLVW022

COMPUTED BY: Zachary J. Richard, PE DATE: 2/28/2022
CHECKED BY: David B. Petty, PE DATE: 8/26/2024

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-2307B SHEET NO. 3D-29

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Pipe Size (12-48 inches), Material (R.C. Pipe Class III/IV, C.S. Pipe), Quantities for Drainage Structures, Frame/Grates/Hood, Concrete Transitional Section, and Remarks. Includes a SHEET TOTALS row at the bottom.

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-2307B SHEET NO. 3D-31

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Pipe Material (Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III/IV), Quantities for Drainage Structures, Frame/Grates/Hood, Concrete Transitional Section, and Remarks. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing codes like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding material descriptions.

TGSLVW1022

COMPUTED BY: Zachary J. Richard, PE DATE: 2/28/2022
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PROJECT NO. SHEET NO.
R-2307B 3D-36

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Pipe Size, Material, and various specifications. Includes a 'SHEET TOTALS' row at the bottom.

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

REMARKS

TGS/LV/10/22

COMPUTED BY: Zachary J. Richard, PE DATE: 2/28/2022
CHECKED BY: David B. Petty, PE DATE: 8/26/2024

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-2307B SHEET NO. 3D-37

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Side Drain Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

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COMPUTED BY: Zachary J. Richard, PE DATE: 2/28/2022
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PROJECT NO. SHEET NO.
R-2307B 3D-38

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Pipe Type (Side Drain Pipe, C.S. PIPE, R.C. PIPE CLASS III/IV), Quantities, Frame/Grates, and Remarks. Includes a 'SHEET TOTALS' row at the bottom.

ABBREVIATIONS table listing terms like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding materials.

REMARKS column for the table, containing numerical values and notes for each row.

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. R-2307B SHEET NO. 3D-43

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Pipe Type (Side Drain, C.S., R.C. Class III/IV), Quantities, Frame/Grates, and Remarks. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing codes like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding material descriptions.

REMARKS

SHEET TOTALS

0.284 3287

COMPUTED BY: MBL DATE: 7/19/2024
 CHECKED BY: DCD DATE: 7/19/2024

(2-3-23)

PROJECT NO. SHEET NO.
 R-2307B 3G-1

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	1000
				TOTAL LF:	1000

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
-L-	680+00	798+00	ASU(2)	8		40777	93918		
-Y31 LT-	30+13	36+46	ASU(2)	8		1700	2300		
-Y31 RT-	29+57	35+73	ASU(2)	8		1700	2300		
-Y31 RPA-	14+03	18+91	ASU(2)	8		500	1100		
-Y31 RPB-	18+00	21+90	ASU(2)	8		250	550		
-Y31 RPC-	14+52	20+38	ASU(2)	8		300	700		
-Y31 RPD-	15+00	22+91	ASU(2)	8		450	950		
CONTINGENCY			ASU(1)	12	2500	5000	7500		
CONTINGENCY			AST	3				500	
TOTAL CY/TONS/SY:					2500	50677**	109318**	500	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)

*AST = Aggregate Stabilization

**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

SUMMARY OF GEOTEXTILE FOR SUBGRADE STABILIZATION

LINE	Station	Station	Geotextile for Subgrade Stabilization SY
-L-	436+00	438+00	467
-L-	451+00	454+00	1,367
-L-	456+00	466+00	4,556
-L-	478+00	489+00	5,011
-L-	495+00	496+50	233
-L-	502+50	503+00	200
-L-	523+00	524+50	583
-L-	538+00	541+00	1,267
-L-	553+00	555+00	911
-L-	561+00	562+00	267
-L-	606+50	609+50	1,567
-L-	619+50	621+50	1,133
-L-	622+50	623+50	511
CONTINGENCY			
TOTAL SY:			18073

*Total square yards of "Geotextile for Subgrade Stabilization" is only the estimated quantity for subgrades and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

SUMMARY OF EMBANKMENT WAITING PERIODS

LINE	Station	Station	MONTHS
-L-	726+25 RT	729+50 RT	3
-L-	726+75 LT	729+25 LT	3

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

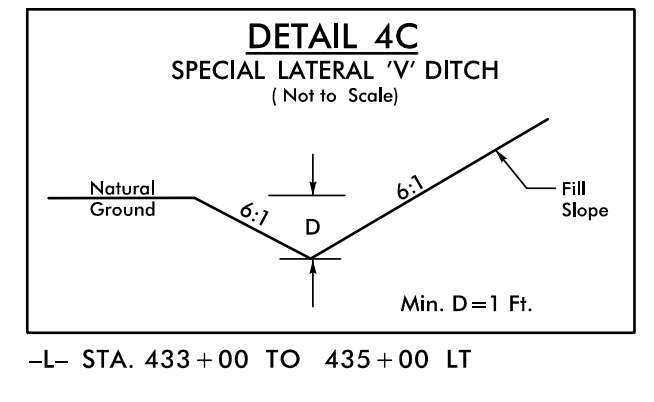
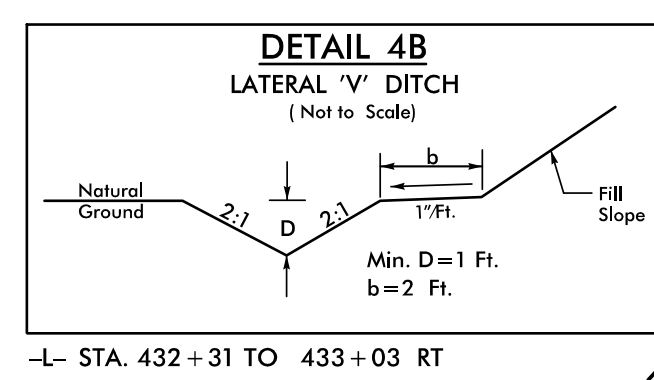
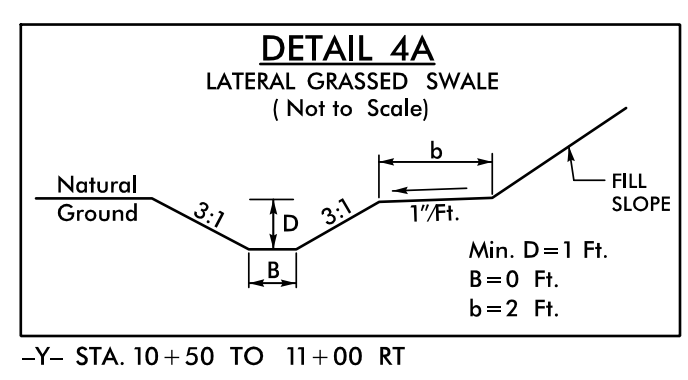
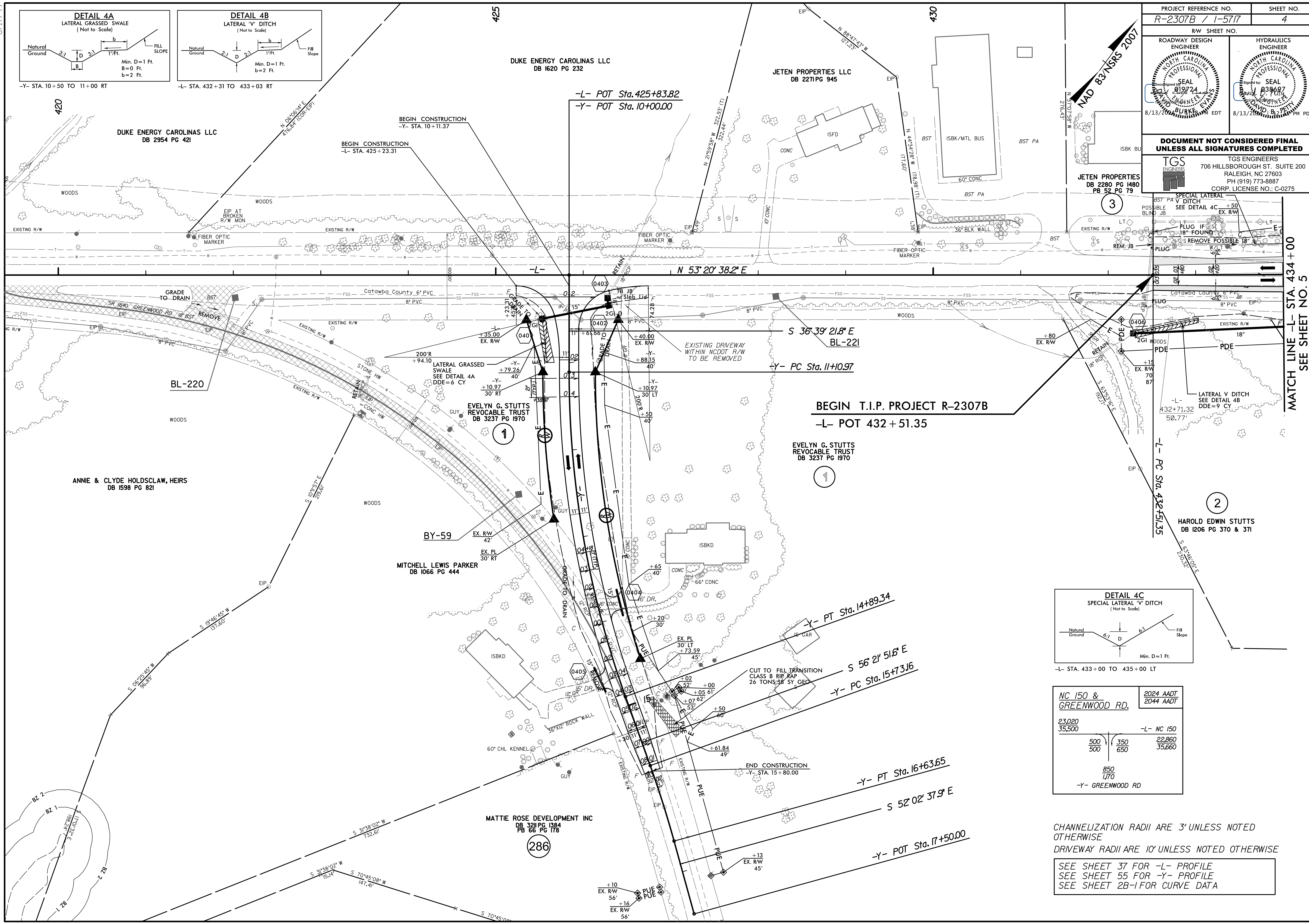
PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	EVELYN G. STUTTS REVOCABLE TRUST
2	4 & 5	HAROLD EDWIN STUTTS
3	4 & 5	JETEN PROPERTIES LLC
4	4 & 5	DELETED
5	5	DELETED
6	5 & 6	ANNIE B. STUTTS IRREVOCABLE TRUST
7	5-8	DUKE ENERGY CAROLINAS LLC
8	8	DELETED
9	0	MAXEY J. ANDRESS & BARBARA ANDRESS
10	8 & 9	DUKE ENERGY CAROLINAS LLC
11	8 & 9	NC FAMILY CARE LIVING TRUST
12	9	THE NORTH CAROLINA II, LP
13	9	LON T. LAM & MAI H. LAM
14	9	PINNACLE SHORES OWNERS ASSOC. INC.
15	9	TOWN OF MOORESVILLE
16	9	CAMERON MOORESVILLE MARINA OWNER, LLC
17	9-12	PINNACLE SHORES OWNERS ASSOC. INC.
18	9	TIMOTHY W & TAMMY T WILSON
19	9 & 10	PINNACLE SHORES OWNERS ASSOC. INC.
20	10	PROMENADE ON THE LAKE LLC
21	10	JACK R. WILLIAMS
22	10-12	DUKE ENERGY CAROLINAS LLC
23	12	LOUIS A. SARRO
24	12	DAVID W. & MARIA DEGENHART
25	12	LAKE LUXURY HOMES LLC
26	12	TED ROOSEVELT BOWERS JR & VERONICA BOWERS
27	12&13	WOODLAND + WATERVIEW LLC
28	12	CAROLINA WATER SERVICES INC
29	12	GENE SWEATT MONICA SWEATT
30	12&13	RONNIE L. SMITH LEE A. SMITH
31	12&13	RONNIE L. SMITH & LEE A. SMITH
32	13	QUINN MANAGEMENT LLC
33	13	WAYNE A. FOLGER
34	13	BOOSTER LLC
35	13	LAKE NORMAN COUNTRY INC.
36	13	BILLIE BOBBIE HARRISON
37	13	JAMES A. KATH NANCY J. KATH ANTHONY W. MACASIEB WENDY S. MACASIEB
38	13	DELETED
39	13	RONALD V. CAMBRIA & DANIEL VINCIENT CAMBRIA
40	13&14	AAA SE STORAGE II, LLC
41	13&14	MORRIS ENTERPRISES
42	13&14	AAA SE STORAGE II, LLC
43	13&14	ALICE B. STILLWELL B&C MILLS & D. FOX
44	14	HOME RUN MARKET PROPERTIES LLC
45	14	EDELWEISS NC LLC
46	14	THRASHER LLC
47	14	LKN ENTERPRISES, LLC
48	14	JAI GIRIRAJ INC.
49	14	THRASHER LLC
50	14	IGWT 150, LLC
51	14	LEONARD RETAIL PROPERTIES LLC
52	14&15	LANCASTER FAMILY LLC
53	14&15	C S PERFORMANCE INC.
54	15	DELETED
55	15	GREER FAMILY ENTERPRISES LLC
56	15	BIG DADDYS PROPERTIES LLC
57	15	DELETED
58	15	HIPAR INVESTMENTS LLC
59	15	SMITH & SMITH PROPERTIES INC.
60	15	BEAM DISTRIBUTORS LLC

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
61	15&16	GREG BIFFLE INC.
62	15&16	CYNTHIA ANNE GEORGE
63	16	GREG BIFFLE INC.
64	16	MILLER WALLACE LLC
65	16	GREG BIFFLE INC.
66	16	AFLP #2 LLC+LAB INVESTMENTS
67	16	111 RIVERPARK ROAD LLC
68	16	C S RENTALS OF LAKE NORMAN INC
69	16	PEOPLES BANK
70	16&17	PATTEN SEED CO.
71	16&17	150W CGC LLC
72	17	AVALON LAKE NORMAN LP
73	17	TRIANGLE PALISAIDES AT WATERS EDGE LLC
74	17	BEREA BAPTIST CHURCH
75	17	DELETED
76	17&18	ZIP PROPERTIES INC.
77	17&18	PERTH HOLDINGS LLC
78	17&18	ZIP PROPERTIES INC.
79	31	BYERS CREEK RESIDENTIAL LLC
80	31	ECHO BYERS CREEK, LLC
81	31	DELETED
82	18&31	MCDONALDS REAL ESTATE CO.
83	18	SAM J. & BARBARA H. BAKER
84	17-18,32	ZIP PROPERTIES INC
85	18&32	SAM J & BARBARA H BAKER
86	18&32	SAM J & BARBARA H BAKER
87	32	TRIANGLE REAL ESTATE OF GASTONIA INC
88	32	HIGHWATER PROPERTIES LLC
89	32	CARLOS & JOANNE SIEGA CARLOS & JOANNE SIEGA
90	32	TRIANGLE REAL ESTATE OF GASTONIA INC
91	32	JOEL R & KELLY C SETTLE
92	32	TRIANGLE REAL ESTATE OF GASTONIA INC
93	32	GREG BIFFLE INC
94	32&33	IREDELL COUNTY
95	32&33	GREG BIFFLE INC
96	33	GARIN TY GROSS & MADALYN P. GROSS
97	33	AMJAD NAZIR & TEHMINA AMJAD
98	33	HANS PEDERSON ORGANIZATION LLC
99	33	BRIAN GOLDWITZ TRACY FORLINI
100	33	DELETED
101	33	GARIN TY GROSS & MADALYN P. GROSS
102	33	SHEPHERDS FIRE RESCUE INC
103	33	FRANCES L NANTZ HEIRS
104	18	CARLENE LOUISE SMITH
105	18	HT PERTH RD LLC
106	18	DELETED
107	18	NC NNN FINANCIAL ASSOC LLC & PROSPECT NC NNN LLC
108	18	ECHO BYERS CREEK, LLC
109	18	D2/DARIO, LLC
110	18&19	SAM J. & BARBARA BAKER
111	18&19	BYERS CREEK RESIDENTIAL LLC
112	18&19	CSL NORTH CAROLINA SYSTEM, LP
113	19	HAK LLC
114	19	LUCILLE S. CURTIS
115	19	DELETED
116	19	SILVERMAN ENTERPRISES LLC
117	19	859 871 RIVER HIGHWAY LLC
118	19	FRANCES L. NANTZ
119	19	MRS. BUBBLES LLC
120	19	DELETED

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET**

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	PARCEL No.	SHEET No.	PROPERTY OWNER NAME
121	19	DELETED	181	35	STORE MASTER FUNDING III, LLC
122	19	833 RIVER HIGHWAY LLC	182	35	VASTIS LLC
123	19&20	FRANCES L. NANTZ	183	35	CAPITAL BANK
124	19&20	DELETED	184	35	144 WILLIAMSON RD, LLC
125	20	DELETED	185	35	CAPITAL BANK NA
126	20	DD GRESHAM LLC/1744 CONCORD LAKE ROAD, LLC	186	35	FIRST CITIZENS BANK TRUST CO
127	20	WILLIAM STEWART JR. & MARCK ALEXANDER	187	24&34	MADISON STREET APARTMENTS LLC
128	20	PRINCETON ASSET MANAGEMENT LP	188	24	MICHEAL JOHN HEINEN
129	20	PHILLIP ROTELLA AND SPOUSE DEBRA ROTELLA	189	24	JANE T. JENNINGS
130	20	PHILLIP ROTELLA AND SPOUSE DEBRA ROTELLA	190	24&25	1415 WATERMARK LLC
131	20	BEAM PROPERTIES RLLLP	191	24&25	LOWES HOME CENTERS INC
132	20&21	POLLY HAGER MOORE	192	25	GREENHILL CATTLE COMPANY, LLC
133	20&21	DEBORAH JOHNSON KNOX & LARRY KNOX	193	25	FIFTH THIRD BANK, NA
134	20&21	BEAM PROPERTIES RLLLP	194	25	MPG MOORESVILLE LLC
135	21	PATRICIA M. NEEL	195	25	JOHN D. & EUGENIA P. HONDROS
136	21	GERALD W. NEEL BRIAN T. NEEL & BRADLEY S. NEEL	196	25	DELETED
137	21	AUSTIN STAR ENTERPRISES LLC	197	25	TUYEN D LECONG REVOC TRUST
138	21	INTERNATIONAL CHURCH OF FOURSQUARE GOSPEL	198	25	SOUTHTRUST BANK
139	21	ROBERT H. HOWARD	199	25	J. T. ALEXANDER JR. JOANNE W. ALEXANDER
140	21	PBR REALTY LLC	200	25	TTX RETAIL, LLC
141	21	S & S #2 FAMILY LTD. PARTNERSHIP	201	25	SYLVIA M. HAROLD, WIDOW
142	21&22	GEORGE WINSTON MORRISON TRUST	202	25	CHICK FIL A INC.
143	21&22	DELETED	203	25	MS SQUARE LLC
144	22	MOORESVILLE CV LLC	204	25	CS REMAINDER 1 LLC
145	22	TITAN 1009 NC LLC	205	25	PHC OF STATESVILLE LLC
146	22	BOAZ PROPERTIES LLC	206	25	SAM'S COMMERCIAL PROPERTIES, LLC
147	22	NCDOT	207	25	RACE VIEW LLC
148	22	FOUR DRYE PROPERTIES LLC	208	25	BVB NC LLC
149	22	CAROLINAZ LLC	209	25	JOHN R. GRAHAM JR. RICHARD E. GRAHAM & CHARLES E. GRAHAM
150	22	CROWN MOORESVILLE LLC	210	25&26	SUSO 4 MOORESVILLE CS LP
151	22	THE WHITT TR	210A	25&26	IRVINGTON HOLDINGS, LLC
152	22&23	CFT DEVELOPMENTS LLC	211	25&26	CNL FUNDING 2000-A LP
153	22	SAMS REAL ESTATE BUSINESS TRUST	212	26	BRANFUL LLC
154	22&23	N & A OF CHARLOTTE LLC	213	26	MOORESVILLE PARTNERS LIMITED PARTNERSHIP
155	23	STEAK N SHAKE OPERATIONS INC.	214	26	WEIRFIELD COAL, INC.
156	23	SAMS COMMERCIAL PROPERTIES, LLC	215	26	NATIONSBANK OF NC
156A	23&35	SXCW PROPERTIES LLC	216	26	FFC LIMITED PARTNERSHIP
157	23&35	MOORESVILLE CROSSING LP	217	26	CAM LEASING CORPORATION
158	23	MOORESVILLE CROSSING LP	218	26	BELK CHARLOTTE INC.
159	23	RR MNC LLC	219	26	JANE MELLON BOFENKAMP & MARY F MELLON
160	23	DDRTC WINSLOW BAY COMMONS LLC	220	26	AUTOBELL CAR WASH INC
161	23	DDRTC WINSLOW BAY COMMONS LLC	221	26	PREMIER APARTMENTS, LLC
162	23	MOORESVILLE CROSSING LP	222	26	TRICOR MOORESVILLE LLC
163	23	DDRTC WINSLOW BAY COMMONS LLC	223	26	BROOKHAVEN HOMEOWNERS ASSOC INC
164	23	DELETED	224	26&27	2015 SAC SELF-STORAGE, LLC
165	23	TARGET CORPORATION	225	26&27	(THE) R LESLIE CHARNOCK LIVING TR
166	23&24	JCR MOORESVILLE LLC	226	26&27	PRECISION FRANCHISING INC
166A	24	MOORESVILLE BREAD, LLC	227	27	DELETED
167	23&24	CLINE FAMILY TRUST	228	27	6K PROPERTIES LLC
168	24	RSD RESTAURANTS REAL ESTATE	229	27	CISA COMMERCIAL PROP LLC
169	24&35	LON YATMAN, TRUSTEE ESTHER YATMAN, TRUSTEE	230	27	294 W PLAZA LLC
170	24&34	RSD FOOD MARKET REAL ESTATE	231	27	CPM INVESTMENTS LLC
171	34	DELETED	232	27	LAND GROWTH LLC
172	34	HAB GROUP, LLC	233	27	DHRUVIN & MARGI INC
173	34	DDRTC WINSLOW BAY COMMONS LLC	234	27	GRIFFIN BROTHERS AUTO CENTERS LLC
174	24&34	DDRTC WINSLOW BAY COMMONS LLC	235	27	SHERRILL KELLY K
175	34	GARY & DONNA MIDDLEBROOK	236	27	DP OF IREDELL LLC
176	24&34	ZALE ASSOCIATES LLC	237	27&28	CIRCLE K STORES INC
177	24	TKC LXX LLC	238	27-28,36	CAROLINA PROJECTS LTD
178	24&35	DELETED	239	36	DUKE ENERGY CAROLINAS, LLC
179	35	119 WILLIAMSON ROAD, LLC	240	36	WILLIAMS PINNEY VICKIE
180	35	MEDALI INVESTMENTS, LLC	241	36	DELETED



NC 150 & GREENWOOD RD.		2024 AADT	
		2044 AADT	
23,020			-L- NC 150
35,500			
500	350	22,860	
500	650	35,660	
850			
1,170			
-Y- GREENWOOD RD			

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE
 SEE SHEET 37 FOR -L- PROFILE
 SEE SHEET 55 FOR -Y- PROFILE
 SEE SHEET 2B-1 FOR CURVE DATA

PROJECT REFERENCE NO. R-2307B / 1-5117	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER DAVID B. PETT Professional Seal 8/13/2024	HYDRAULICS ENGINEER DAVID B. PETT Professional Seal 8/13/2024

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
 706 HILLSBOROUGH ST., SUITE 200
 RALEIGH, NC 27603
 PH (919) 773-8887
 CORP. LICENSE NO.: C-0275

JETEN PROPERTIES
 DB 2280 PG 1480
 PB 52 PG 79

HAROLD EDWIN STUTTS
 DB 1206 PG 370 & 371

EVELYN G. STUTTS REVOCABLE TRUST
 DB 3237 PG 1970

ANNIE & CLYDE HOLDSCLAW, HEIRS
 DB 1598 PG 821

MITCHELL LEWIS PARKER
 DB 1066 PG 444

MATTIE ROSE DEVELOPMENT INC
 DB 3211 PG 1384
 PB 66 PG 178

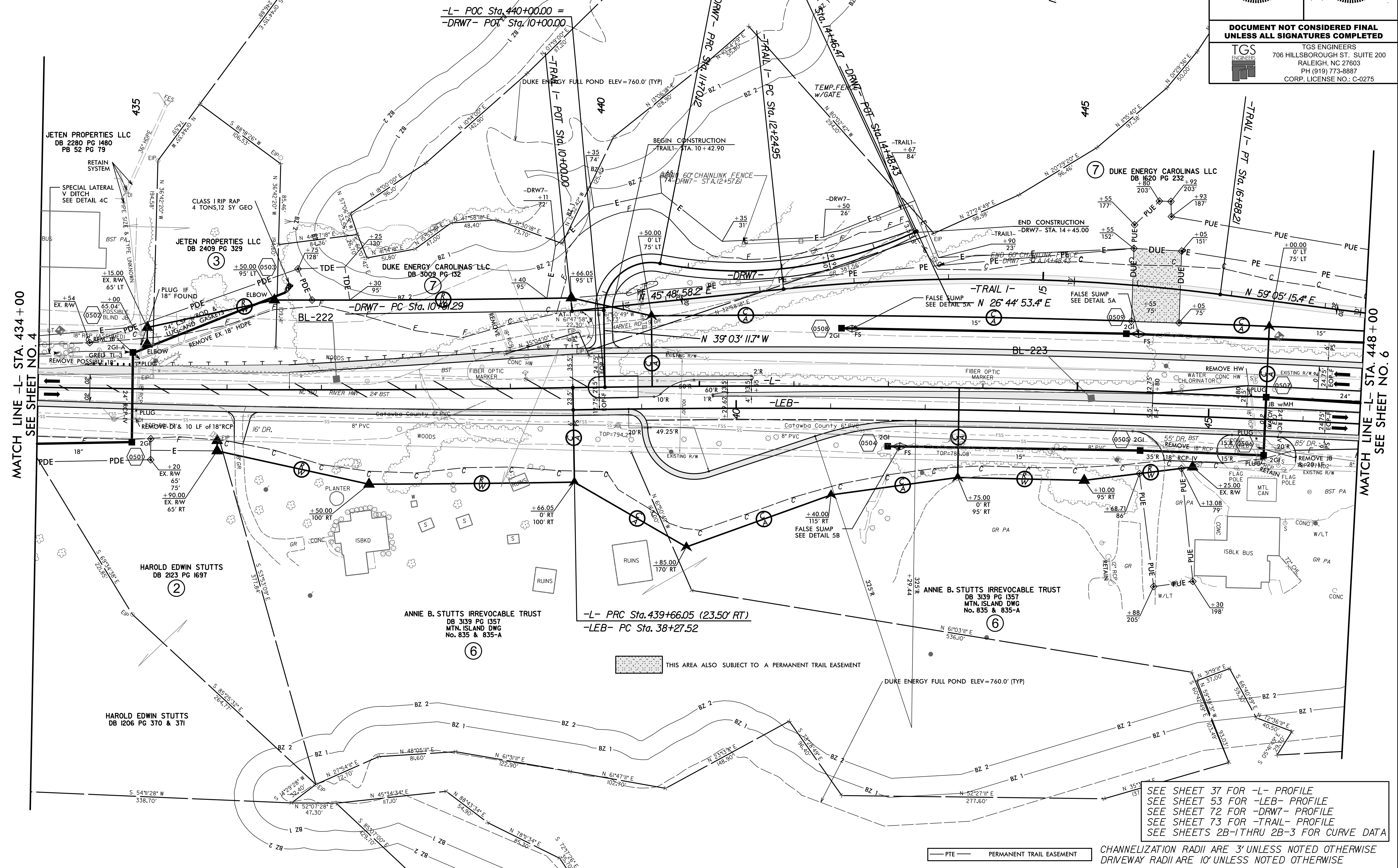
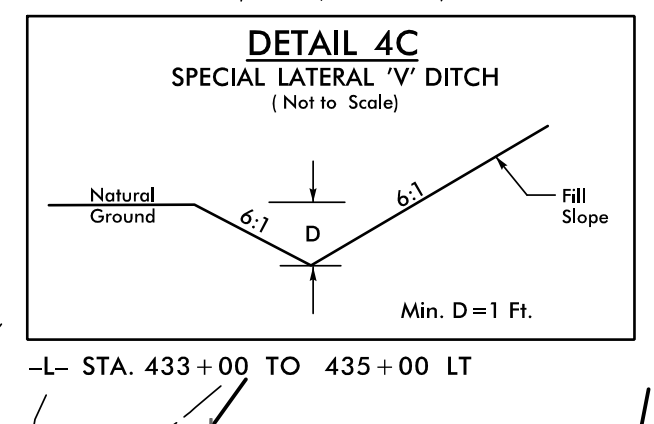
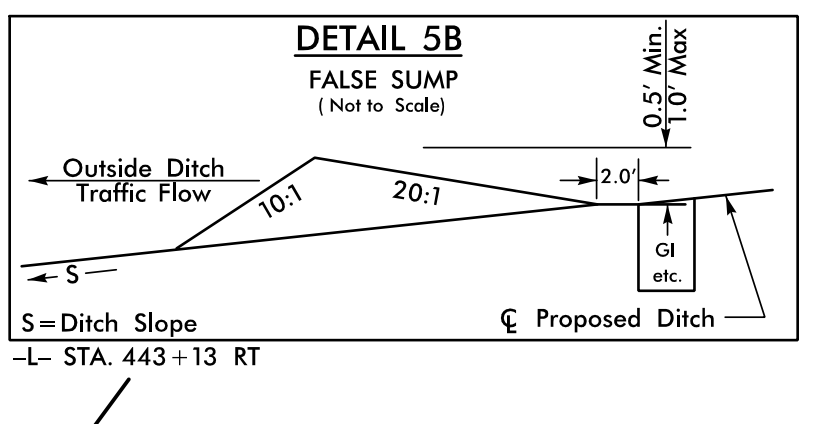
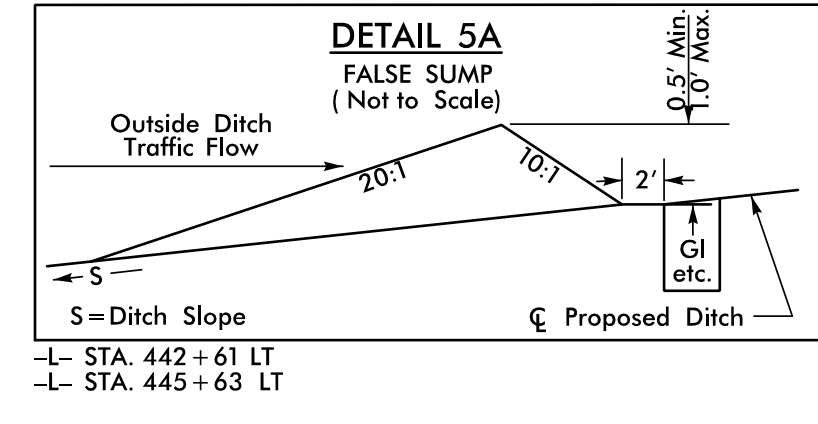
DUKE ENERGY CAROLINAS LLC
 DB 2954 PG 421

DUKE ENERGY CAROLINAS LLC
 DB 1620 PG 232

JETEN PROPERTIES LLC
 DB 2271 PG 945

8/17/2024

PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

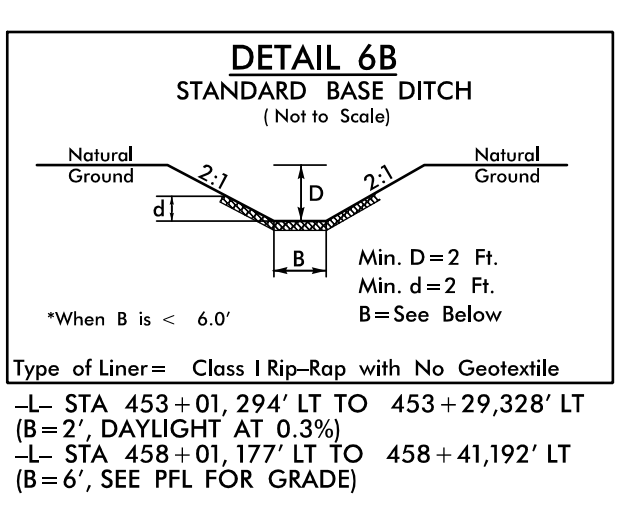
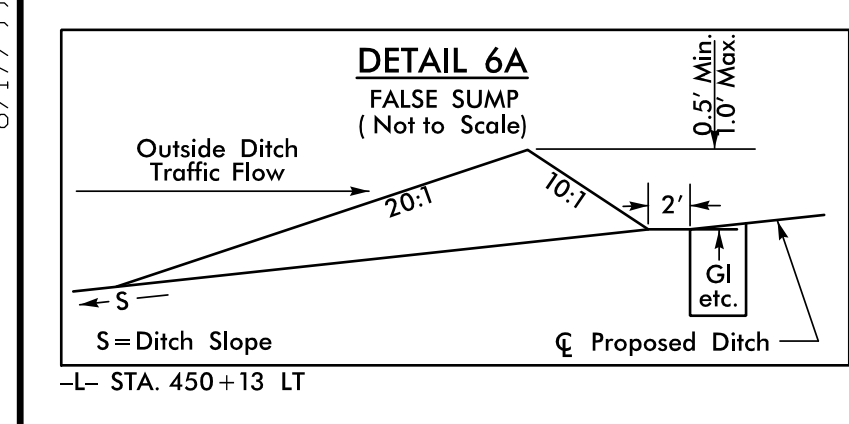
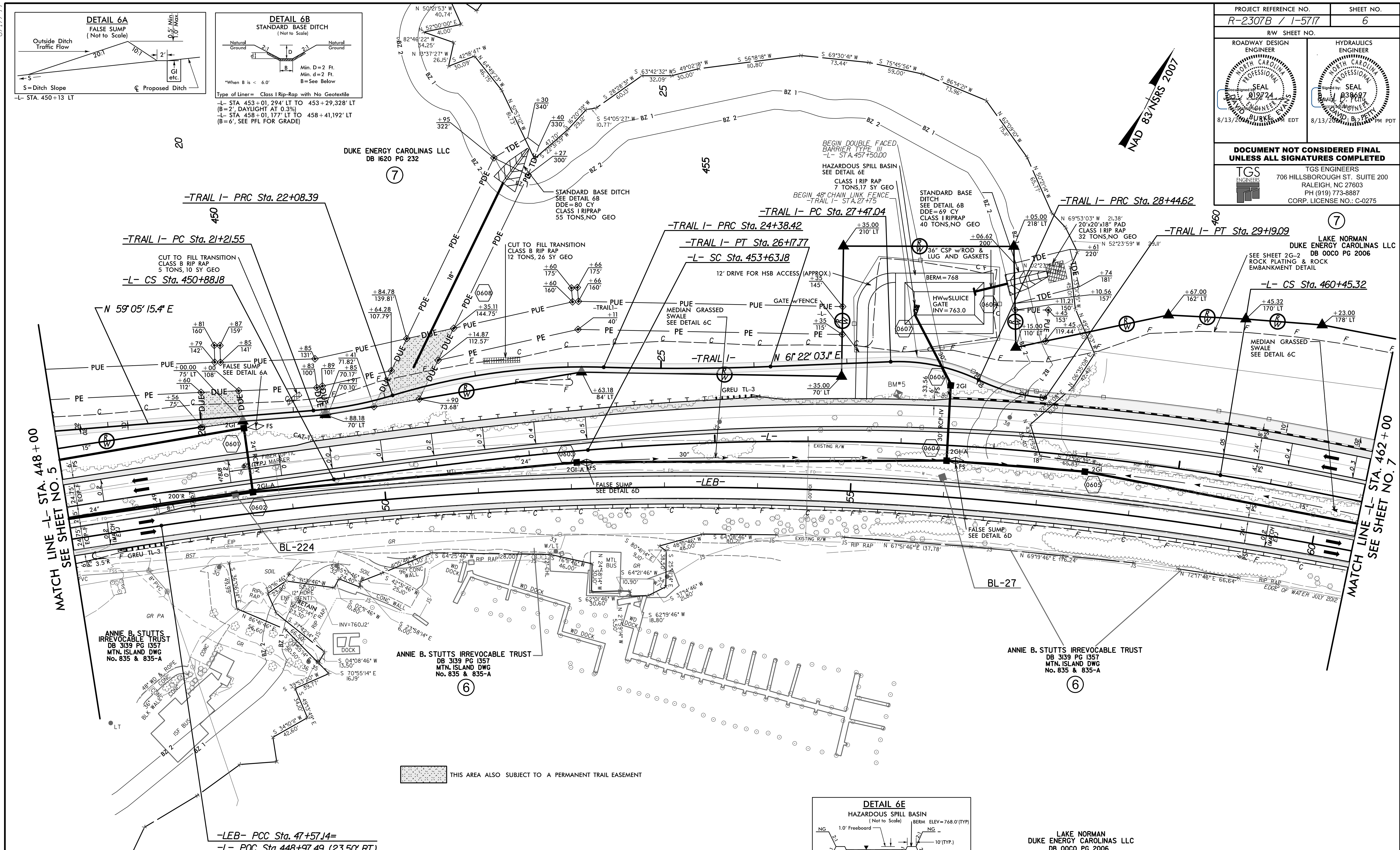


SEE SHEET 37 FOR -L- PROFILE
 SEE SHEET 53 FOR -LEB- PROFILE
 SEE SHEET 72 FOR -DRW7- PROFILE
 SEE SHEET 73 FOR -TRAIL- PROFILE
 SEE SHEETS 2B-1 THRU 2B-3 FOR CURVE DATA

— PTE — PERMANENT TRAIL EASEMENT
 CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

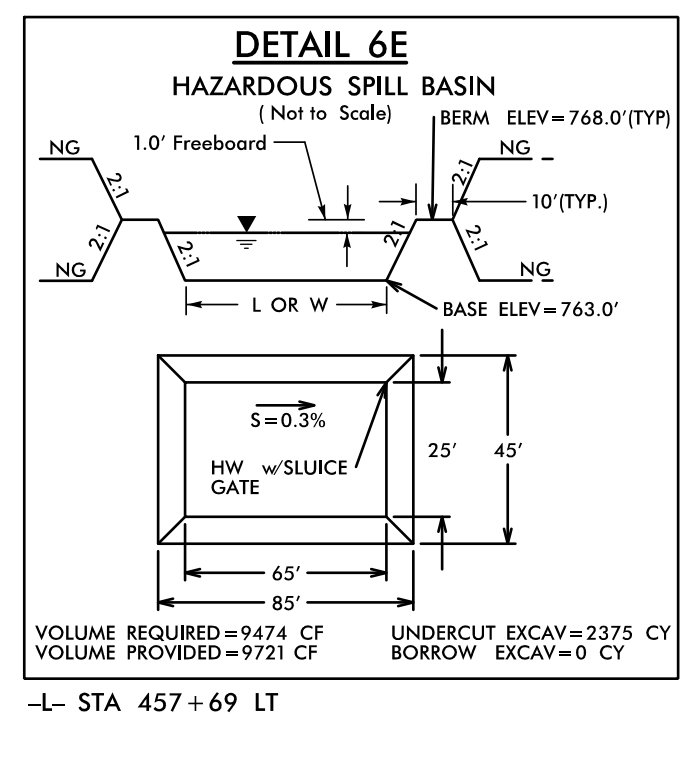
8/13/2024
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 User:bevans

PROJECT REFERENCE NO. R-2307B / 1-5717	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



DETAIL 6D
FALSE SUMP (Not to Scale)

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'



-L- STA. 453+50 TO 459+00 MED
-L- STA. 459+00 TO 465+50 MED

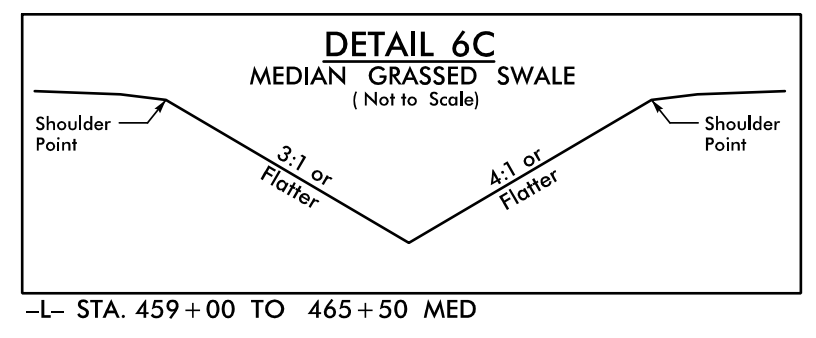
-L- STA. 453+61 MED
-L- STA. 457+60 MED

-L- STA 457+69 LT

SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 53 FOR -LEB- PROFILE
SEE SHEET 73 FOR -TRAIL- PROFILE
SEE SHEET 2B-1 AND 2B-2 FOR CURVE DATA

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

8/17/99

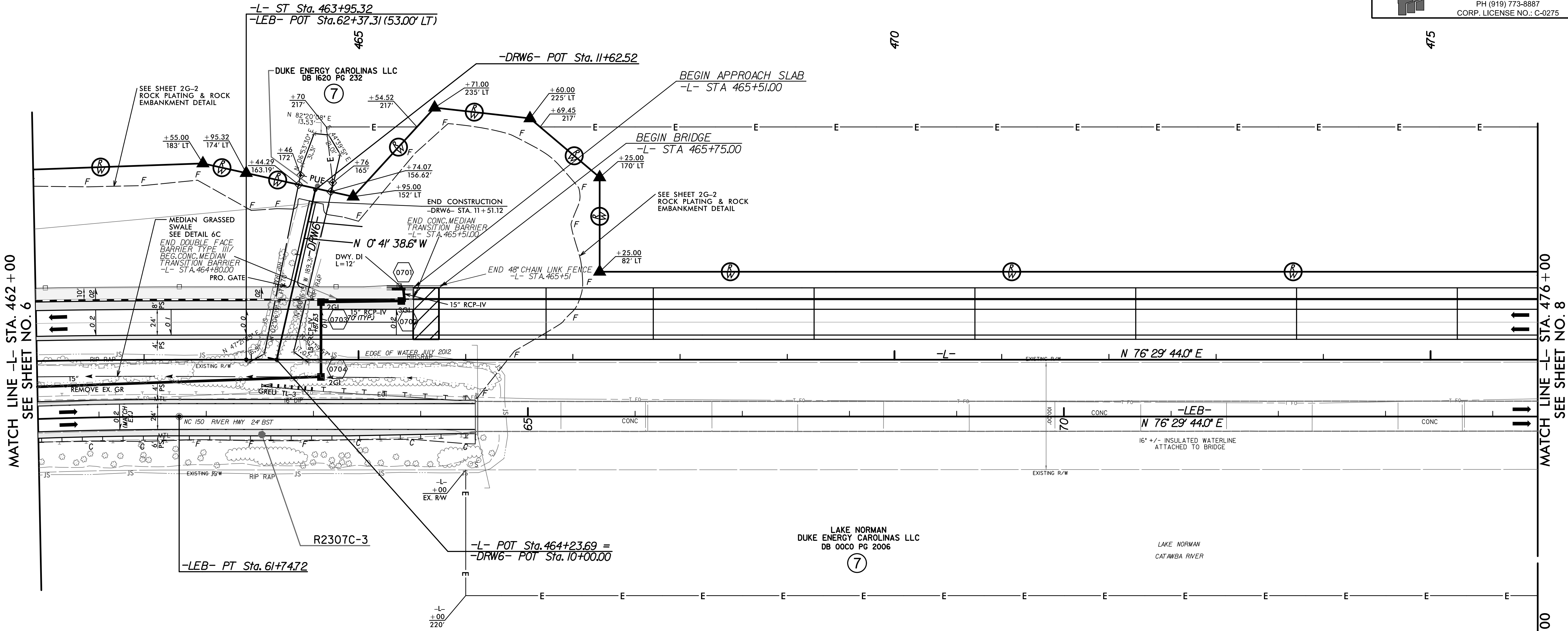


LAKE NORMAN
DUKE ENERGY CAROLINAS LLC
DB 0000 PG 2006

7

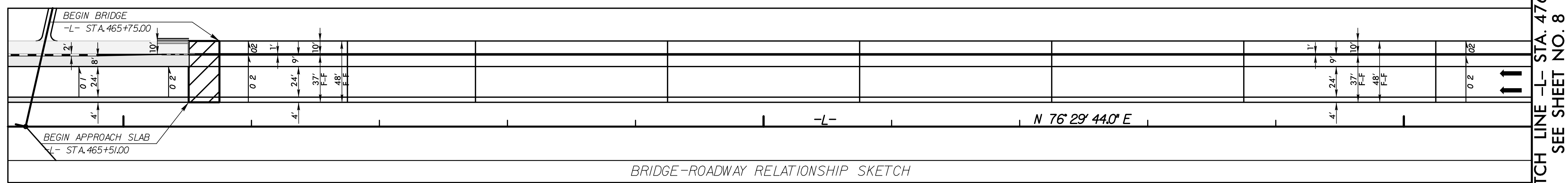
NAD 83 N/SRS 2007

PROJECT REFERENCE NO. <i>R-2307B / 1-5717</i>	SHEET NO. <i>7</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



MATCH LINE -L- STA. 462+00
SEE SHEET NO. 6

MATCH LINE -L- STA. 476+00
SEE SHEET NO. 8

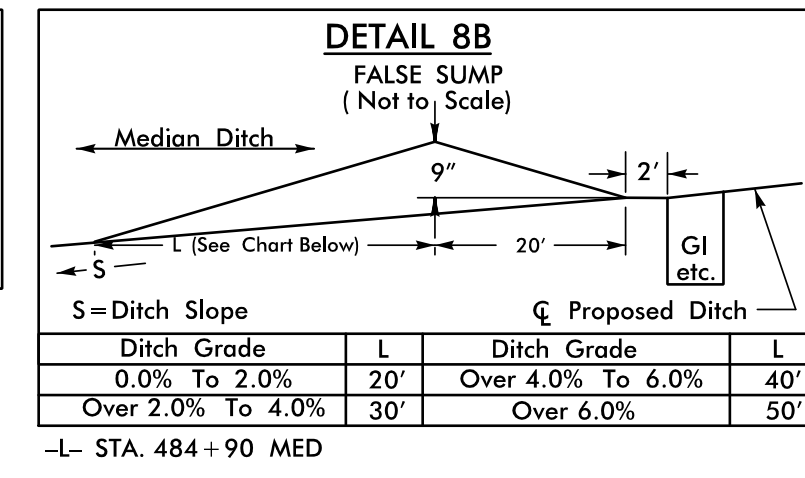
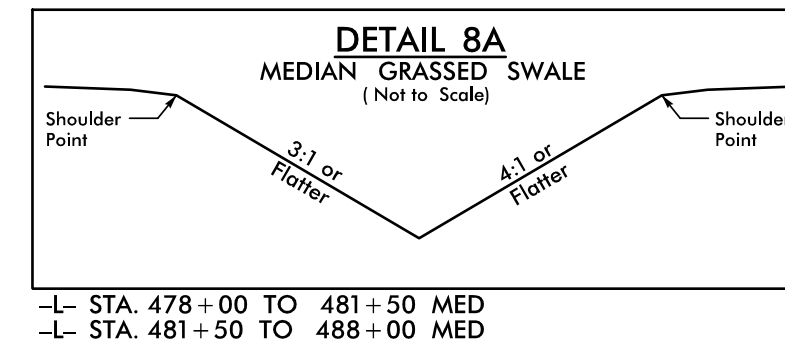
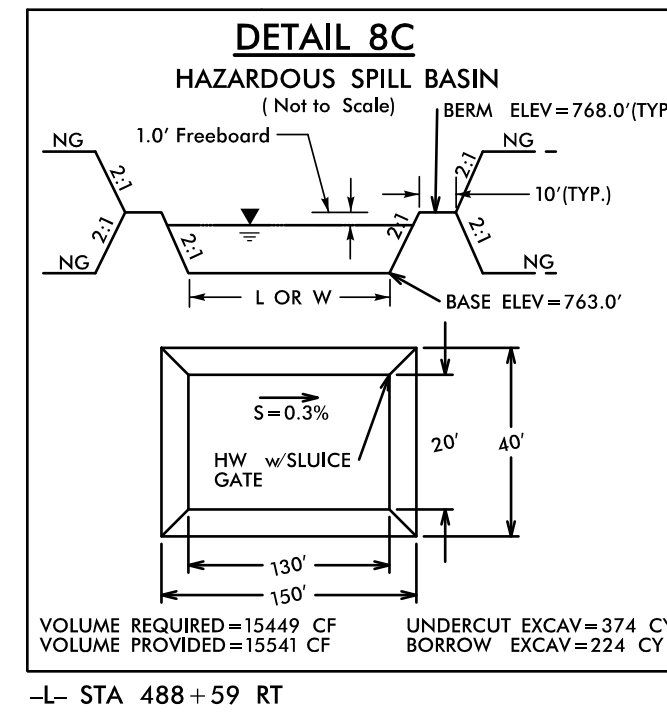


BRIDGE-ROADWAY RELATIONSHIP SKETCH

MATCH LINE -L- STA. 476+00
SEE SHEET NO. 8

SEE SHEET 39 FOR -L- PROFILE
 SEE SHEETS 53 THRU 54 FOR -LEB- PROFILE
 SEE SHEET 71 FOR -DRW6- PROFILE
 SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA
 SEE SHEETS SI-1 THRU SI-72 FOR STRUCTURE PLANS

8/17/09



PROJECT REFERENCE NO. **R-2307B / 1-5117** SHEET NO. **8**

RW SHEET NO. _____

ROADWAY DESIGN ENGINEER: [Signature]

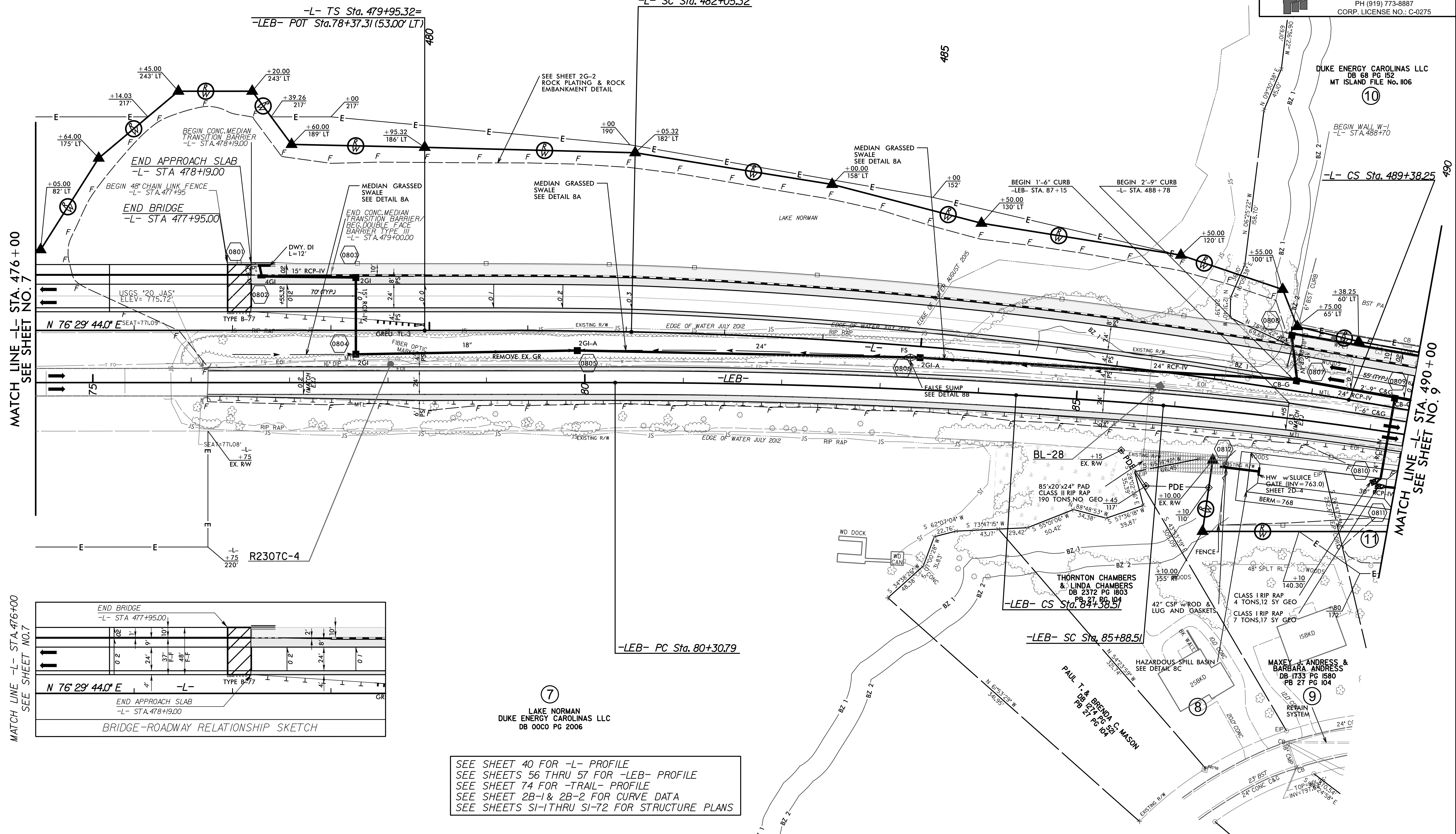
HYDRAULICS ENGINEER: [Signature]

SEAL: [Seal]

8/13/2009 EDT 8/13/2009 PM PDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

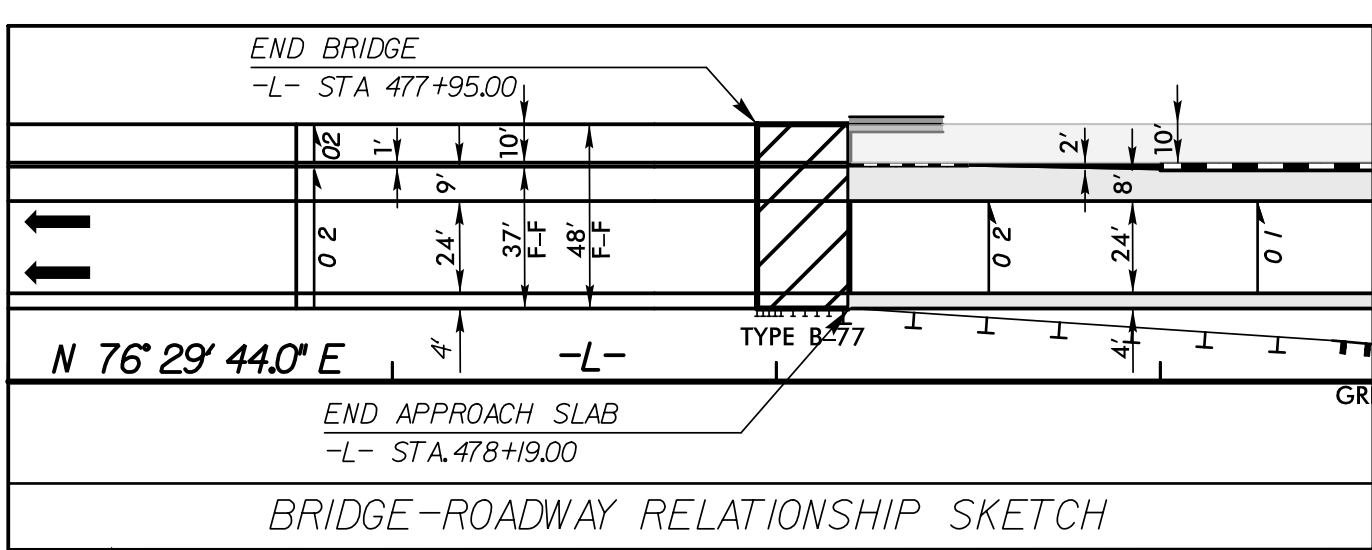
TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275



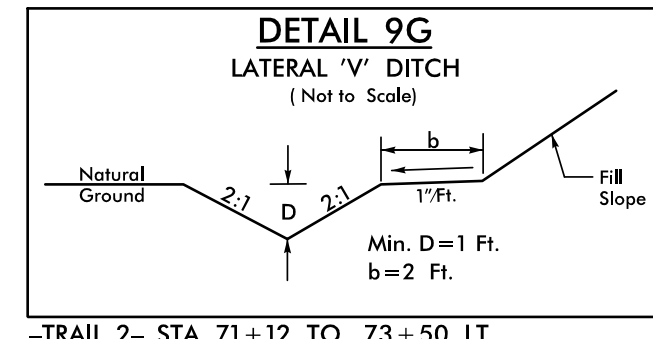
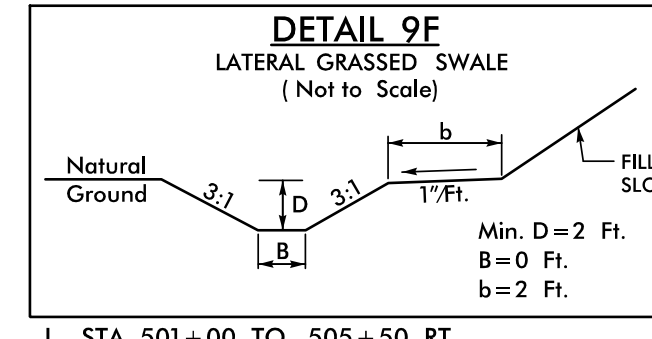
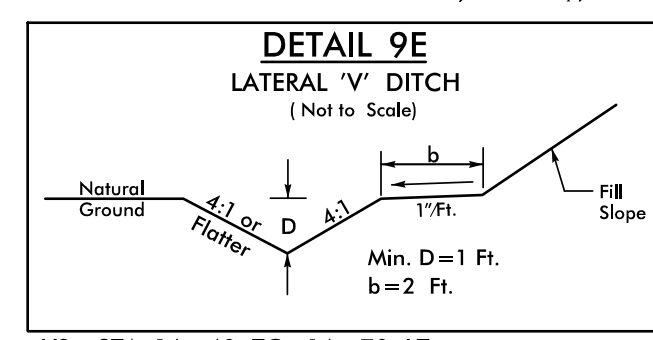
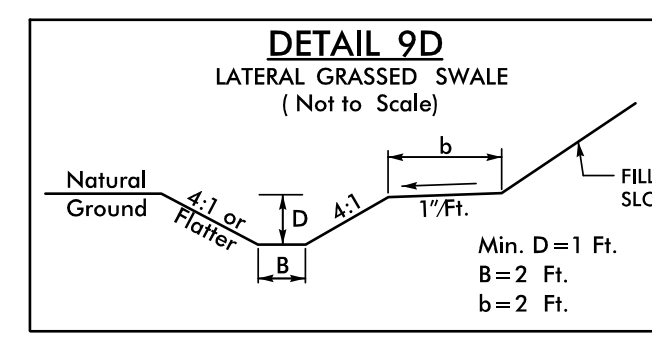
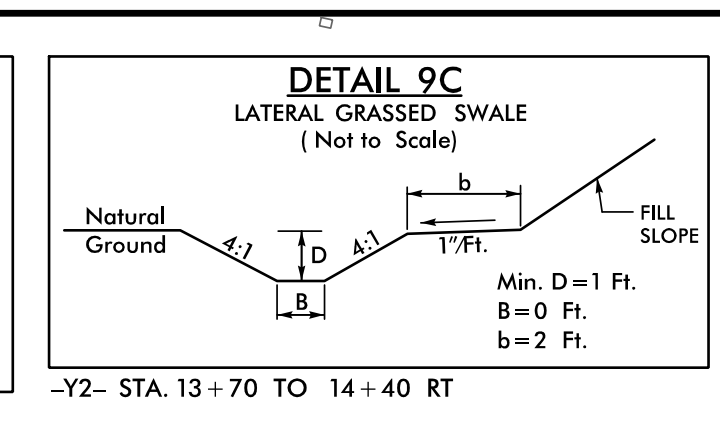
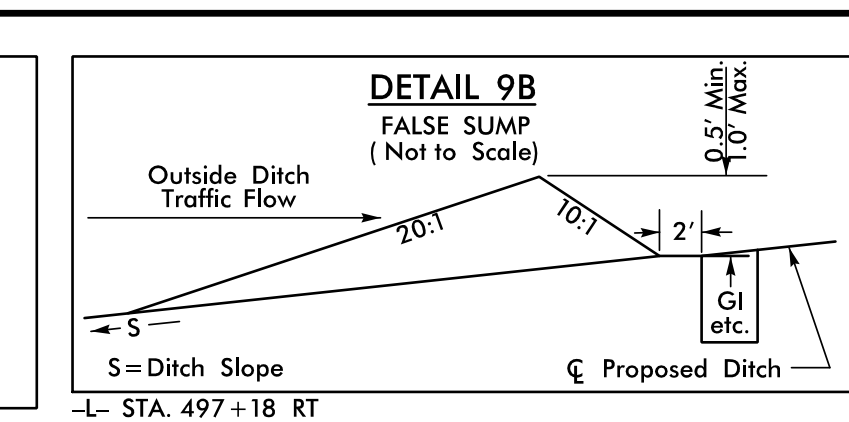
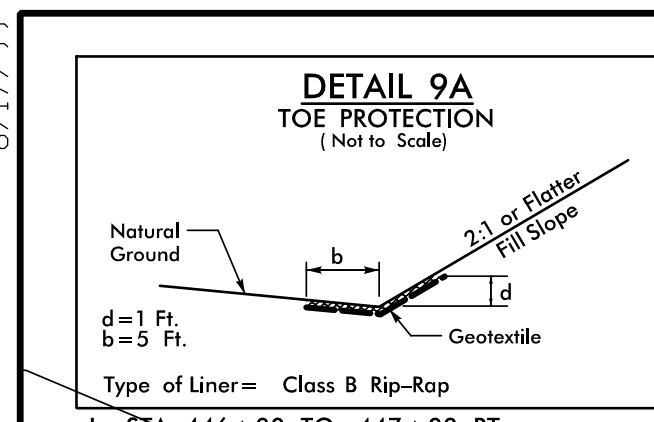
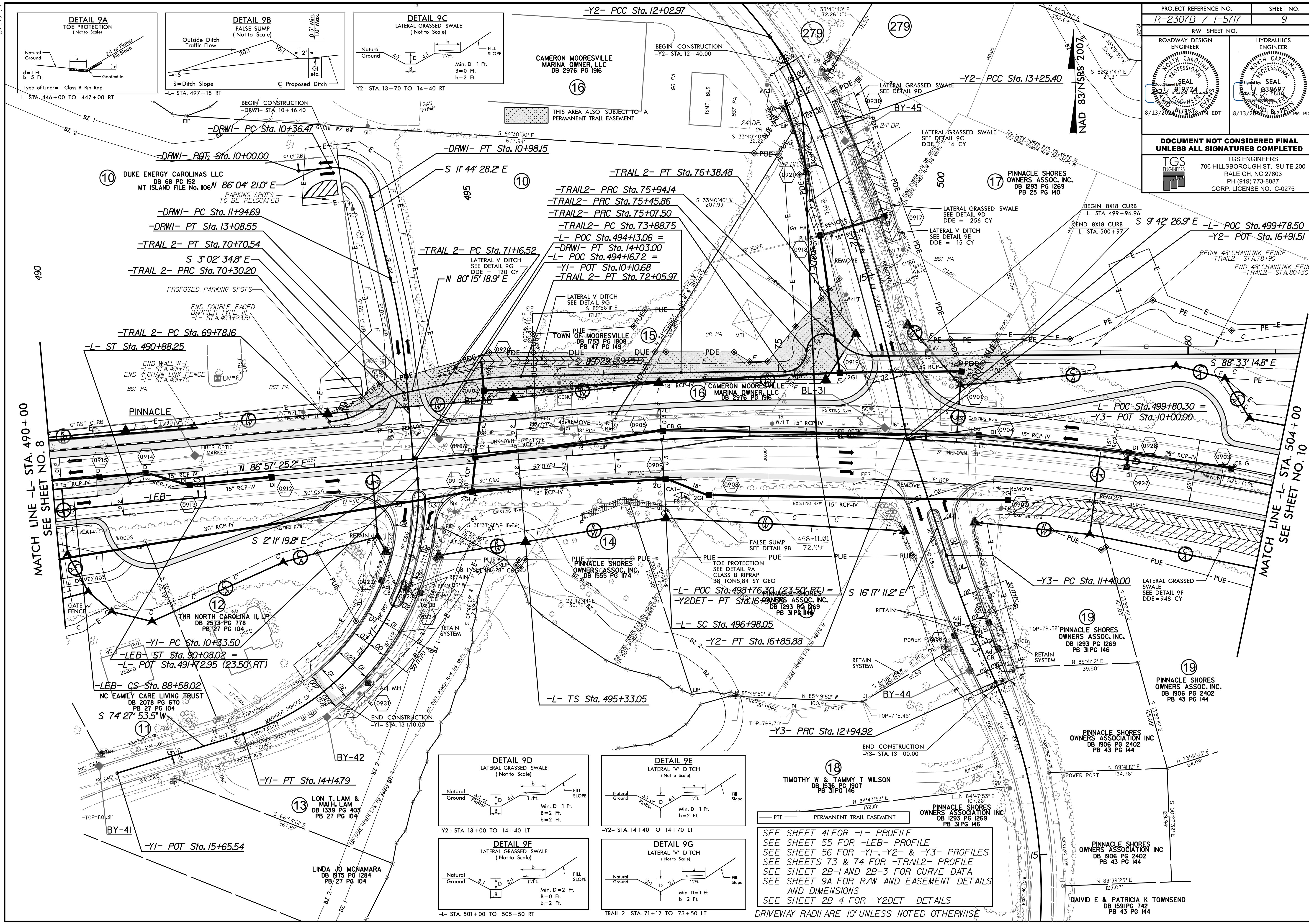
MATCH LINE -L- STA. 476+00 SEE SHEET NO. 7

MATCH LINE -L- STA. 476+00 SEE SHEET NO. 7

MATCH LINE -L- STA. 490+00 SEE SHEET NO. 9



SEE SHEET 40 FOR -L- PROFILE
 SEE SHEETS 56 THRU 57 FOR -LEB- PROFILE
 SEE SHEET 74 FOR -TRAIL- PROFILE
 SEE SHEET 2B-1 & 2B-2 FOR CURVE DATA
 SEE SHEETS SI-1 THRU SI-72 FOR STRUCTURE PLANS



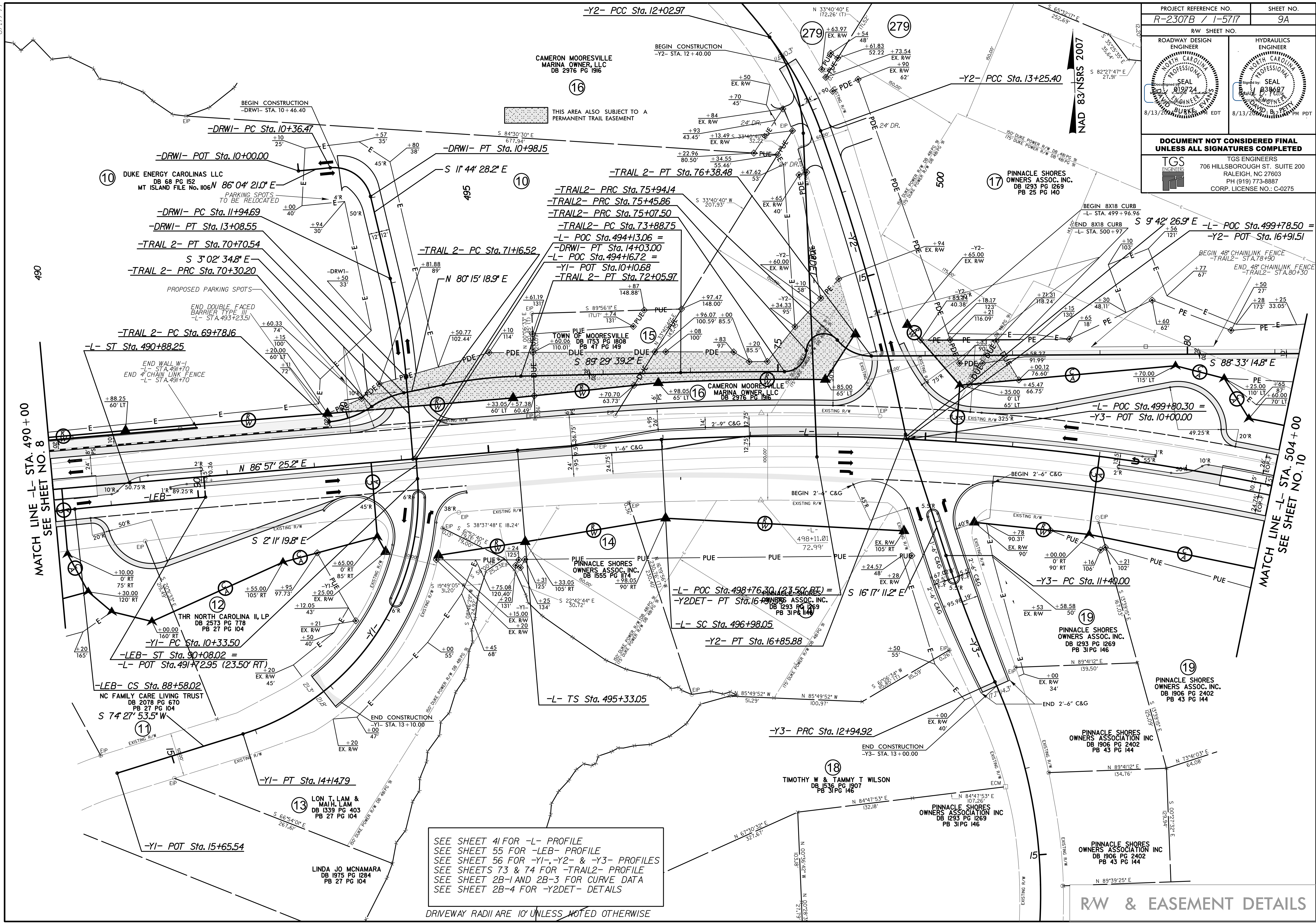
PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 9	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/13/2024		8/13/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

SEE SHEET 41 FOR -L- PROFILE
 SEE SHEET 55 FOR -LEB- PROFILE
 SEE SHEET 56 FOR -Y1-, -Y2- & -Y3- PROFILES
 SEE SHEETS 73 & 74 FOR -TRAIL2- PROFILE
 SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA
 SEE SHEET 9A FOR R/W AND EASEMENT DETAILS
 AND DIMENSIONS
 SEE SHEET 2B-4 FOR -Y2DET- DETAILS
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

MATCH LINE -L- STA. 490+00
SEE SHEET NO. 8

MATCH LINE -L- STA. 504+00
SEE SHEET NO. 10

PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 9A
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		PROFESSIONAL
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



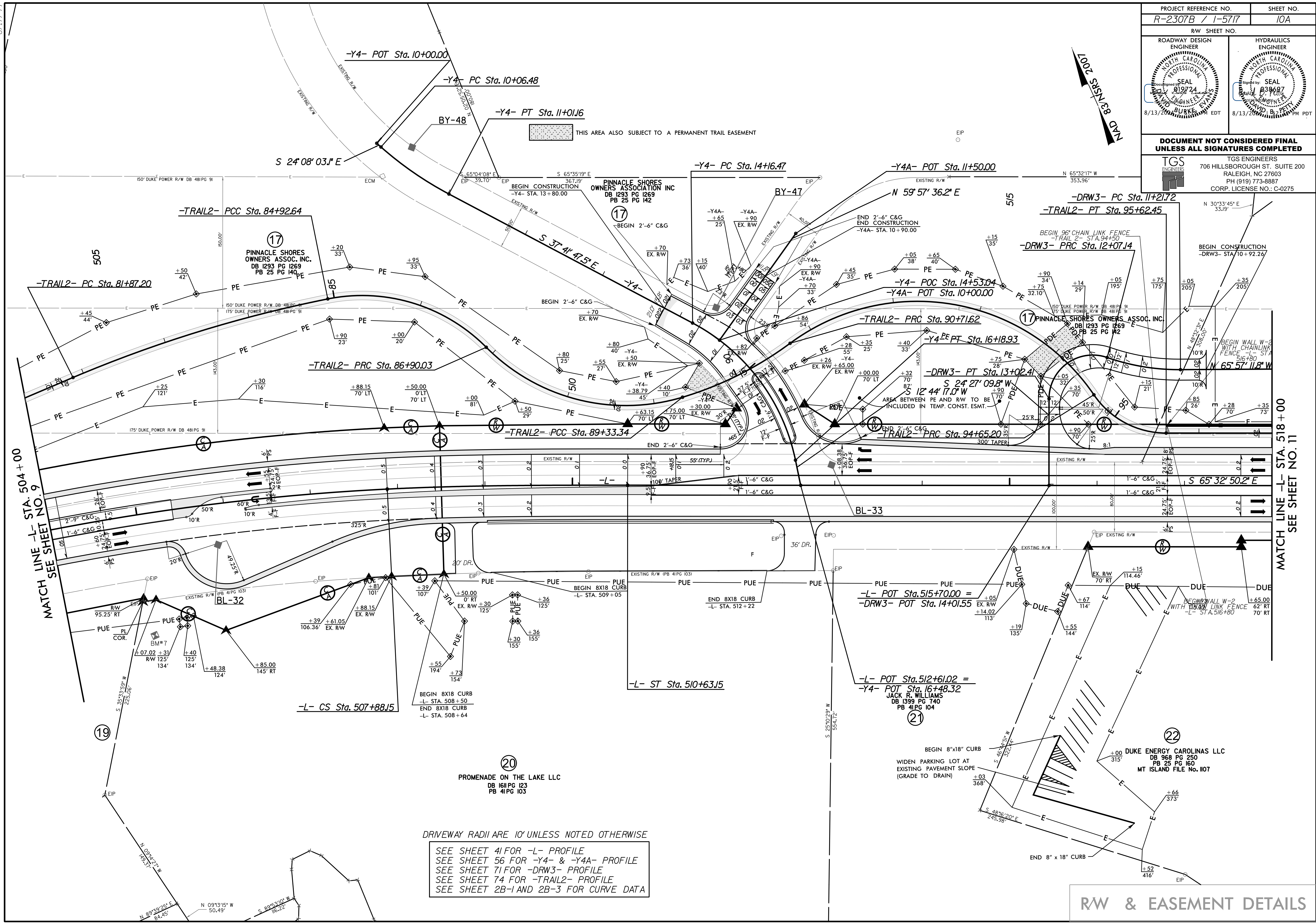
SEE SHEET 41 FOR -L- PROFILE
 SEE SHEET 55 FOR -LEB- PROFILE
 SEE SHEET 56 FOR -Y1-, -Y2- & -Y3- PROFILES
 SEE SHEETS 73 & 74 FOR -TRAIL2- PROFILE
 SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA
 SEE SHEET 2B-4 FOR -Y2DET- DETAILS

DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

RW & EASEMENT DETAILS

8/13/2024
 S:\Projects\2307b\roadway\proj\NR-2307B.RDY_PSH.dwg
 User:bevans

PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 10A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL DAVID B. BLAKE, CIVIL ENGINEER 8/13/2024	
SEAL DAVID B. BLAKE, CIVIL ENGINEER 8/13/2024		SEAL DAVID B. BLAKE, CIVIL ENGINEER 8/13/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

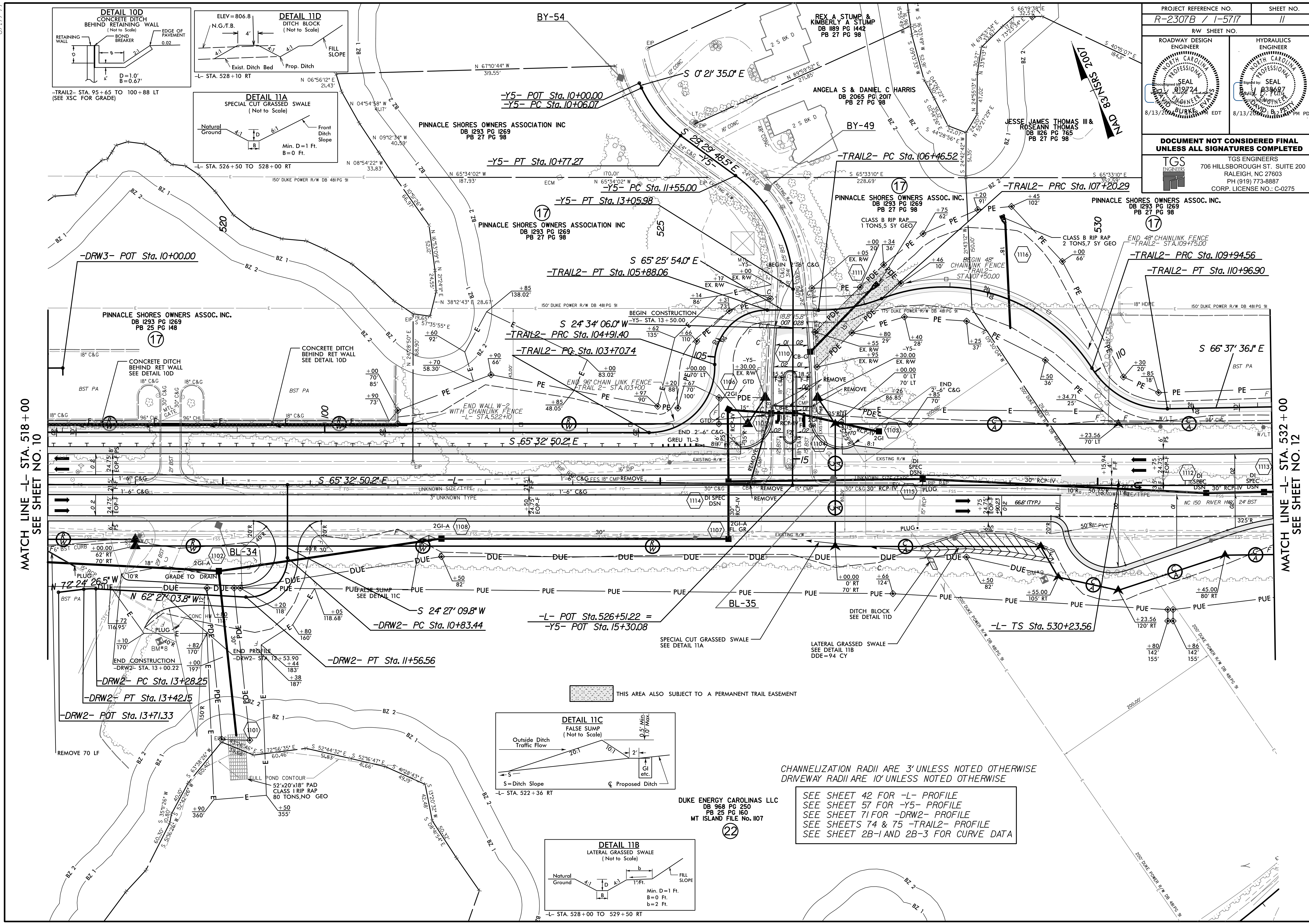


MATCH LINE -L- STA. 504+00
SEE SHEET NO. 9

MATCH LINE -L- STA. 518+00
SEE SHEET NO. 11

DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE
SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 56 FOR -Y4- & -Y4A- PROFILE
SEE SHEET 71 FOR -DRW3- PROFILE
SEE SHEET 74 FOR -TRAIL2- PROFILE
SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA

RW & EASEMENT DETAILS

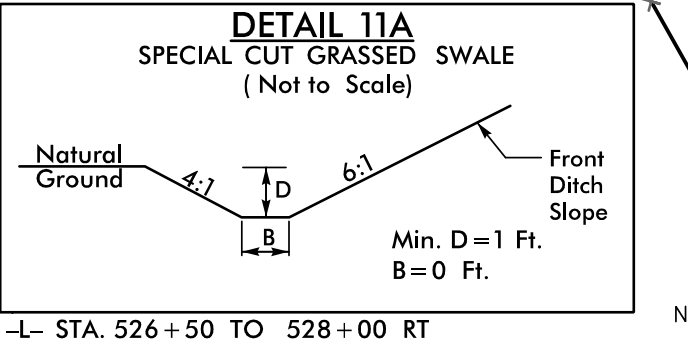
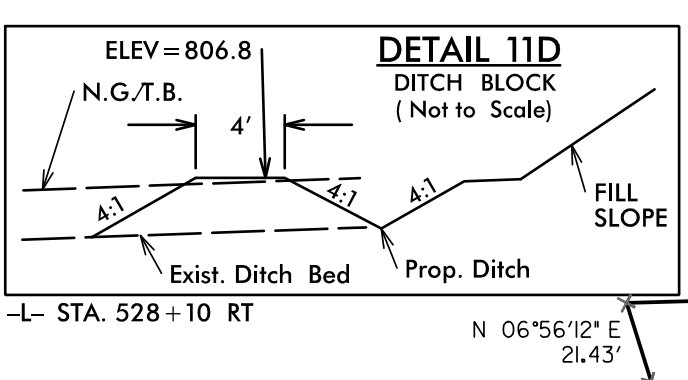
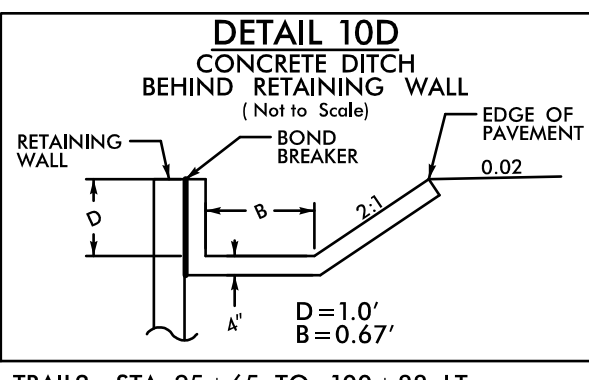
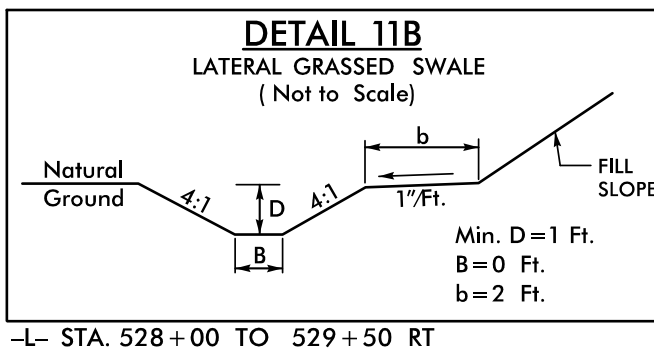
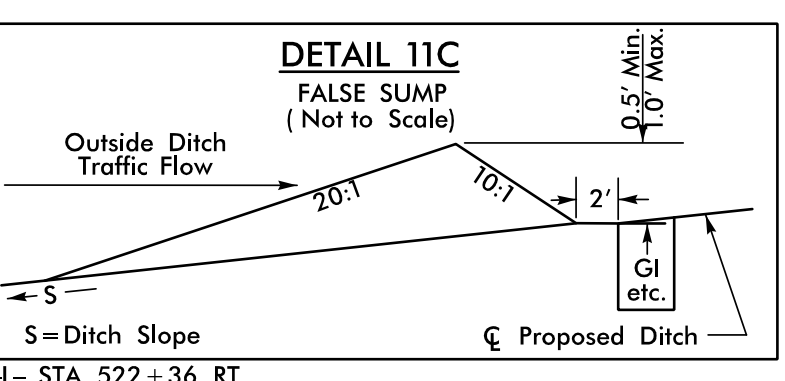


PROJECT REFERENCE NO. R-2307B / 1-577	SHEET NO. 11
ROADWAY DESIGN ENGINEER SEAL 8/13/2024	HYDRAULICS ENGINEER SEAL 8/13/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

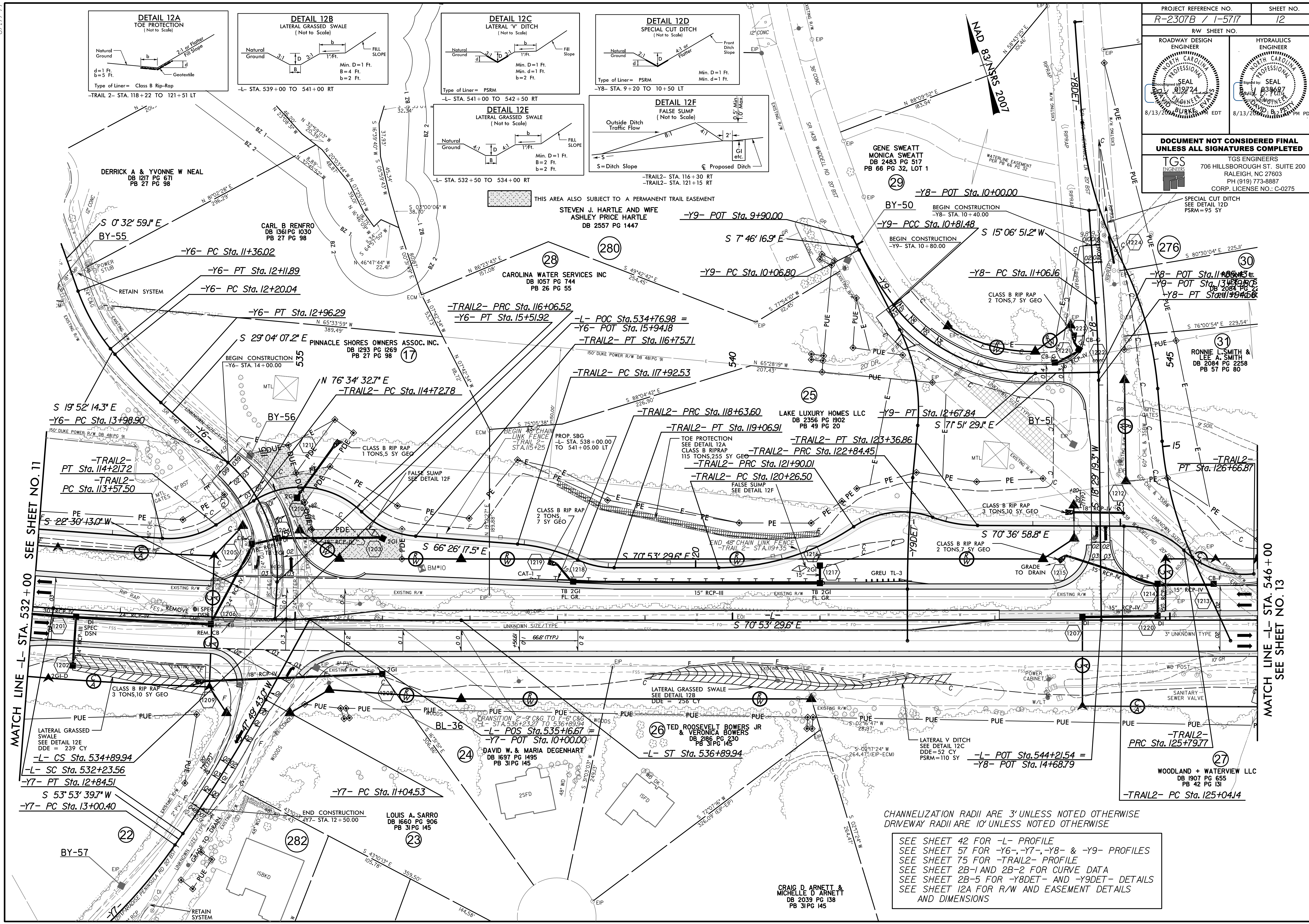
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User:bevans

SEE SHEET 42 FOR -L- PROFILE
SEE SHEET 57 FOR -Y5- PROFILE
SEE SHEET 71 FOR -DRW2- PROFILE
SEE SHEETS 74 & 75 -TRAIL2- PROFILE
SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA

DUKE ENERGY CAROLINAS LLC
DB 968 PG 250
PB 25 PG 160
MT ISLAND FILE NO. 1107



8/13/2024
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User:bevans



PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 12	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 8/13/2024		HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 8/13/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

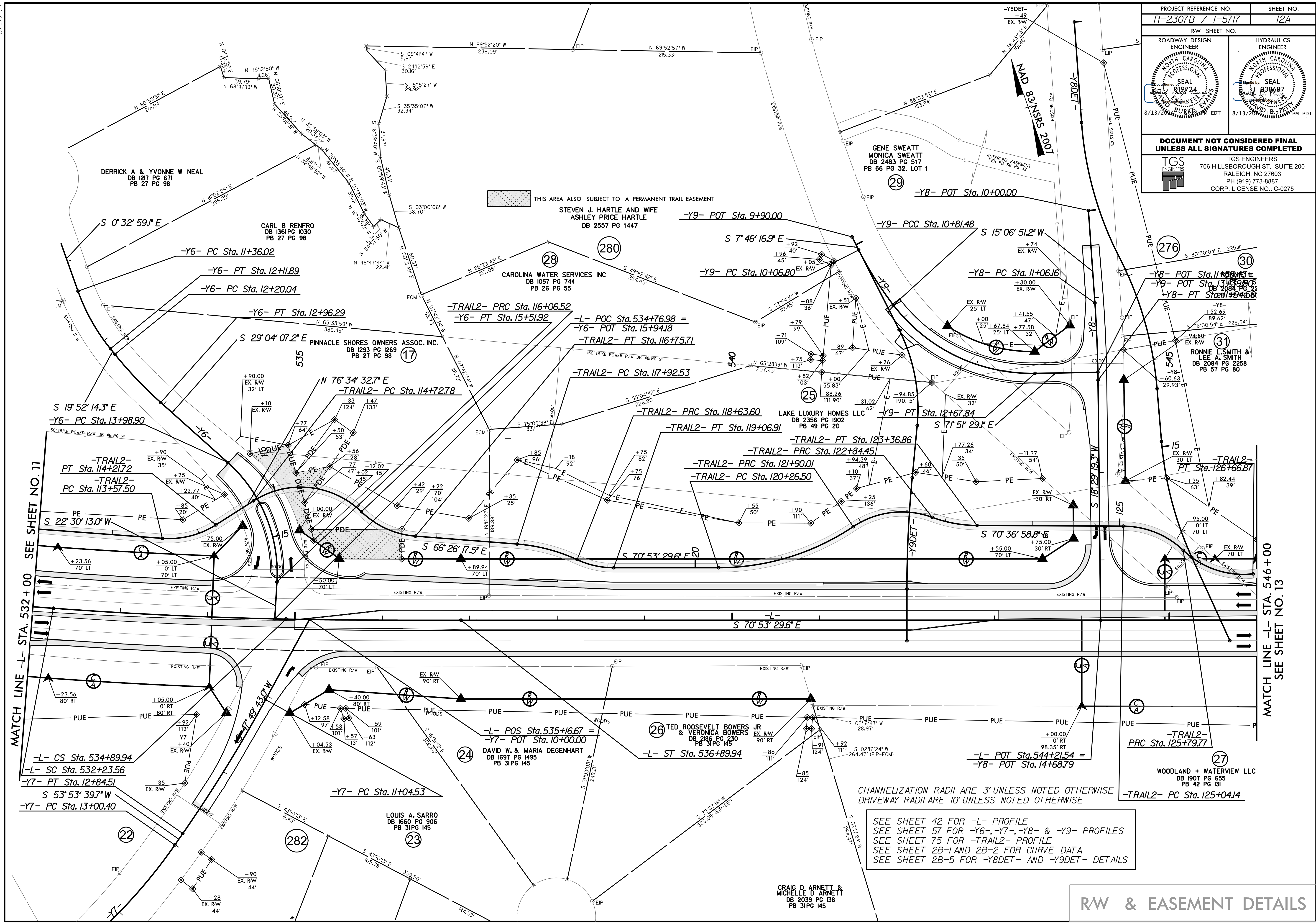
CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 42 FOR -L- PROFILE
SEE SHEET 57 FOR -Y6-, -Y7-, -Y8- & -Y9- PROFILES
SEE SHEET 75 FOR -TRAIL2- PROFILE
SEE SHEET 2B-1 AND 2B-2 FOR CURVE DATA
SEE SHEET 2B-5 FOR -Y8DET- AND -Y9DET- DETAILS
SEE SHEET 12A FOR R/W AND EASEMENT DETAILS AND DIMENSIONS

MATCH LINE -L- STA. 532+00 SEE SHEET NO. 11

MATCH LINE -L- STA. 546+00 SEE SHEET NO. 13

PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 12A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		PROFESSIONAL ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



SEE SHEET 42 FOR -L- PROFILE
 SEE SHEET 57 FOR -Y6-, -Y7-, -Y8- & -Y9- PROFILES
 SEE SHEET 75 FOR -TRAIL2- PROFILE
 SEE SHEET 2B-1 AND 2B-2 FOR CURVE DATA
 SEE SHEET 2B-5 FOR -Y8DET- AND -Y9DET- DETAILS

RW & EASEMENT DETAILS

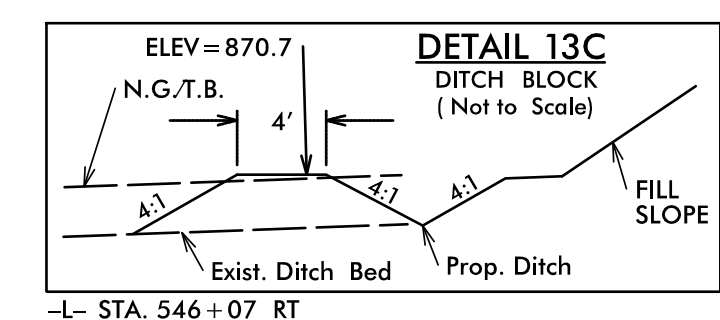
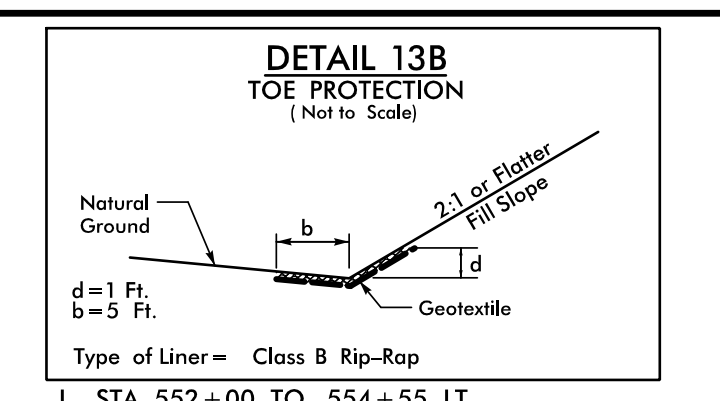
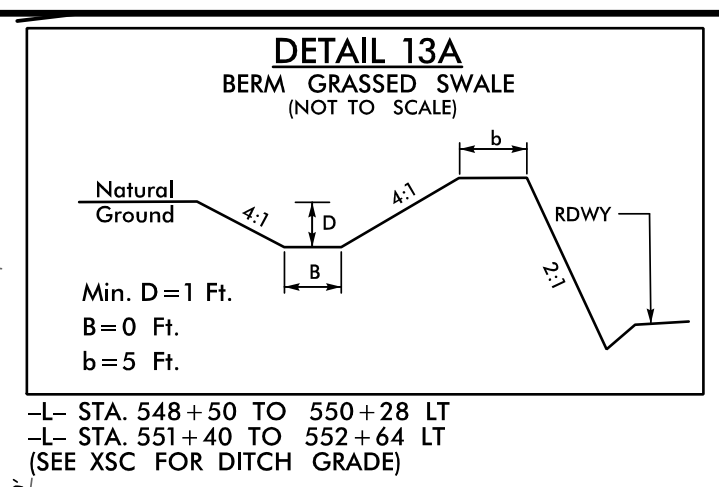
8/13/2024
 X:\ncdot\1-r-2307b\roadway\proj\NR-2307B-RDY_PSH_12A.dgn
 User:bevans

CRAIG D. ARNETT &
 MICHELLE D. ARNETT
 DB 2039 PG 138
 PB 31 PG 145

8/17/99

30 RONNIE L. SMITH DB 2084 PG 2258, TR. III
LEE A. SMITH PB 57 PG 80, LOT 1 N 84°46'02"E
762.68'

31 RONNIE L. SMITH & LEE A. SMITH
DB 2084 PG 2258
PB 57 PG 80



NAD 83/NSRS 2007

35 LAKE NORMAN COUNTRY INC.
DB 823 PG 430

40 AAA SE STORAGE II, LLC
DB 2495 PG 578

37 JAMES A. KATH
NANCY J. KATH
ANTHONY W. MACASIEB
WENDY S. MACASIEB
DB 962 PG 534
BEGIN 8X18 CURB
-L- STA. 557+46

36 BILLIE BOBBIE HARRISON
DB 2518 PG 2106

36 BILLIE BOBBIE HARRISON
DB 2518 PG 2106

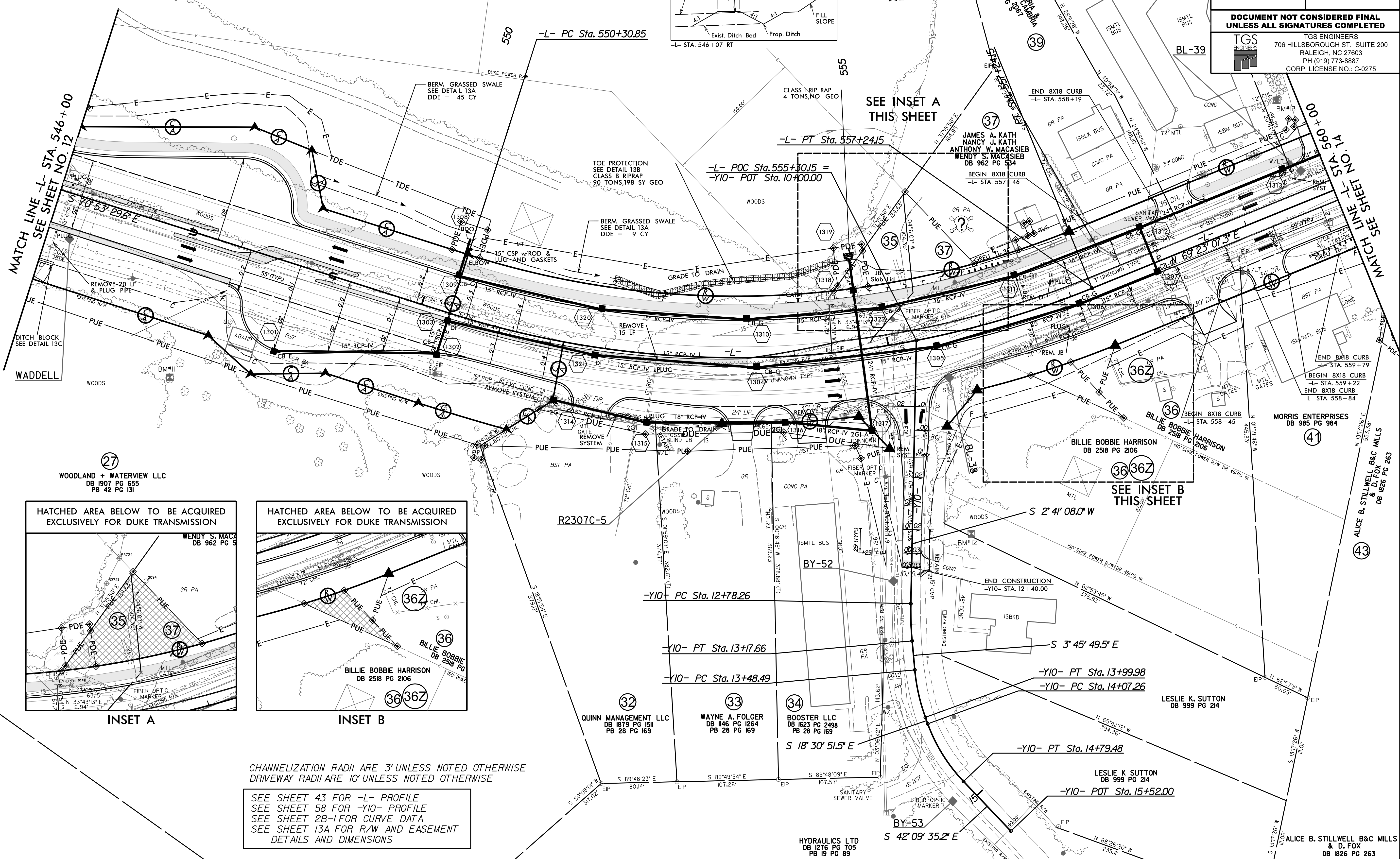
36 END CONSTRUCTION
-Y10- STA. 12+40.00

36 -Y10- PT Sta. 13+99.98
-Y10- PC Sta. 14+07.26

36 -Y10- PT Sta. 14+79.48

36 -Y10- POT Sta. 15+52.00

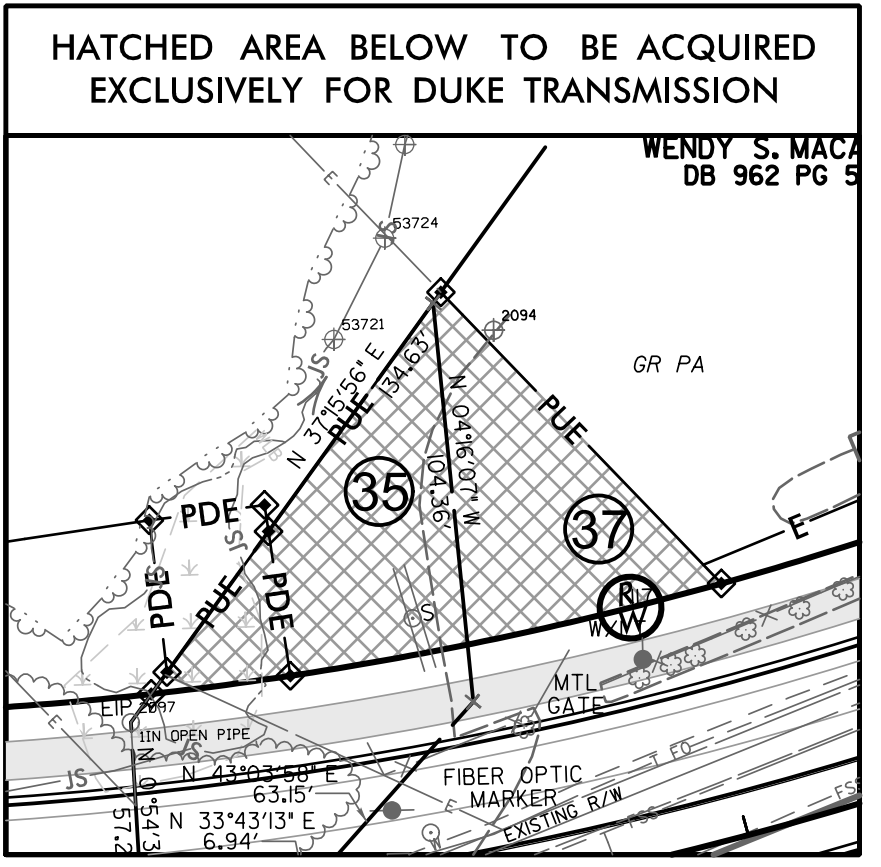
PROJECT REFERENCE NO. R-2307B / 1-5717	SHEET NO. 13
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	PROFESSIONAL SEAL DAVID B. PRETTI 8/13/2024
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275</p>	



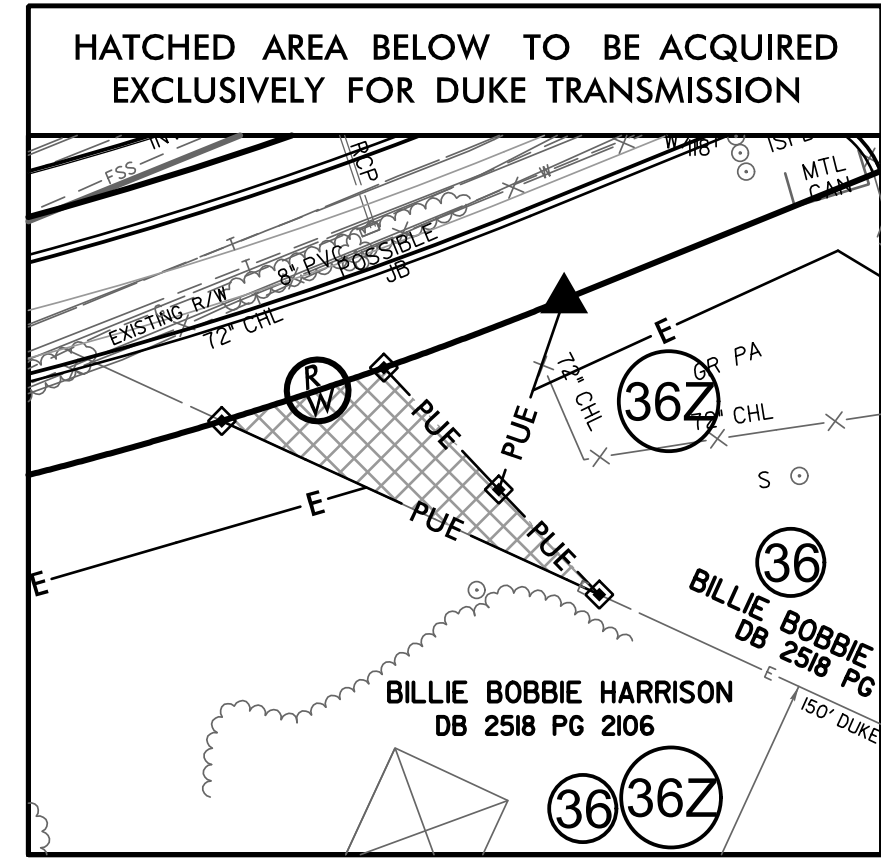
MATCH LINE -L- STA. 546+00
SEE SHEET NO. 12

MATCH LINE -Y10- STA. 15+52.00
SEE SHEET NO. 14

27 WOODLAND + WATERVIEW LLC
DB 1907 PG 655
PB 42 PG 131



INSET A



INSET B

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 58 FOR -Y10- PROFILE
SEE SHEET 2B-1 FOR CURVE DATA
SEE SHEET 13A FOR R/W AND EASEMENT
DETAILS AND DIMENSIONS

8/13/2024
X:\ncdot\1-r-2307b\roadway\pro\1-r-2307b\RDY_PSH_13.dgn
User:bevans

30 RONNIE L. SMITH DB 2084 PG 2258, TR. III
LEE A. SMITH PB 57 PG 80, LOT 1 N 84°46'02"E
762.68'

31 RONNIE L. SMITH & LEE A. SMITH
DB 2084 PG 2258
PB 57 PG 80

35 LAKE NORMAN COUNTRY INC.
DB 823 PG 430

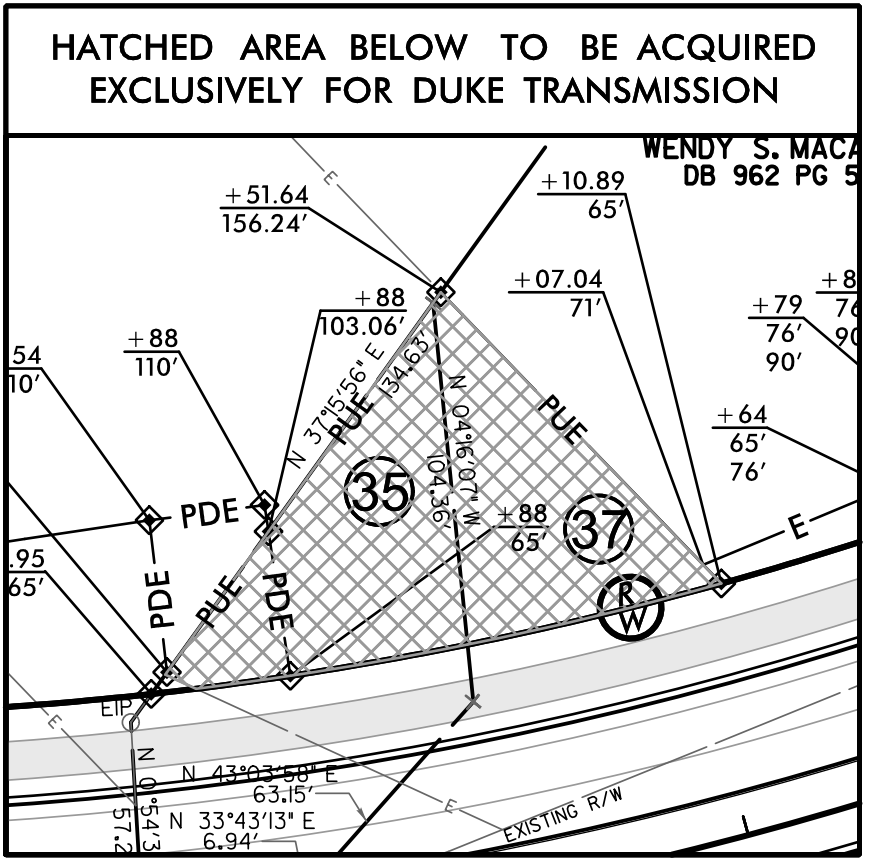
40 AAA SE STORAGE II, LLC
DB 2495 PG 578

37 JAMES A. KATH
NANCY J. KATH
ANTHONY W. MACASIEB
WENDY S. MACASIEB
DB 962 PG 534

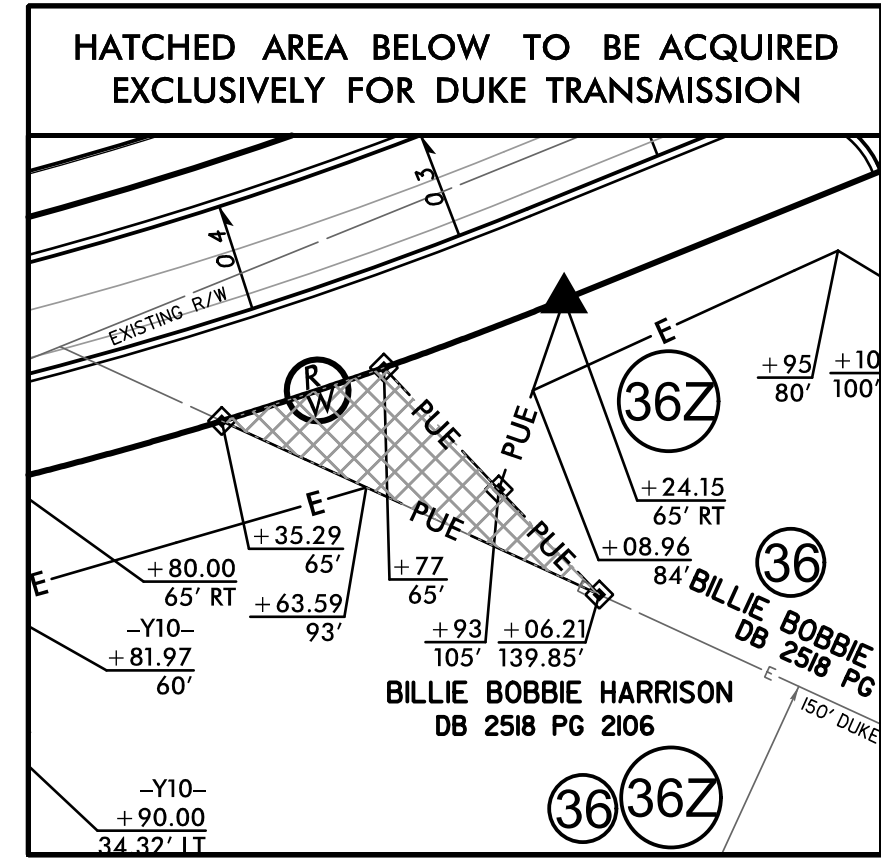
36 BILLIE BOBBIE HARRISON
DB 2518 PG 2106

41 MORRIS ENTERPRISES
DB 985 PG 984

27 WOODLAND + WATERVIEW LLC
DB 1907 PG 655
PB 42 PG 131



INSET A



INSET B

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 58 FOR -Y10- PROFILE
SEE SHEET 2B-1 FOR CURVE DATA

32 QUINN MANAGEMENT LLC
DB 1879 PG 1511
PB 28 PG 169

33 WAYNE A. FOLGER
DB 1146 PG 1264
PB 28 PG 169

34 BOOSTER LLC
DB 1623 PG 2498
PB 28 PG 169

LESLIE K. SUTTON
DB 999 PG 214

LESLIE K. SUTTON
DB 999 PG 214

HYDRAULICS LTD
DB 1276 PG 705
PB 19 PG 89

PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 13A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

NAD 83/NSRS 2007



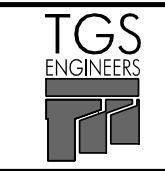
MATCH LINE -L- STA. 546+00
SEE SHEET NO. 12

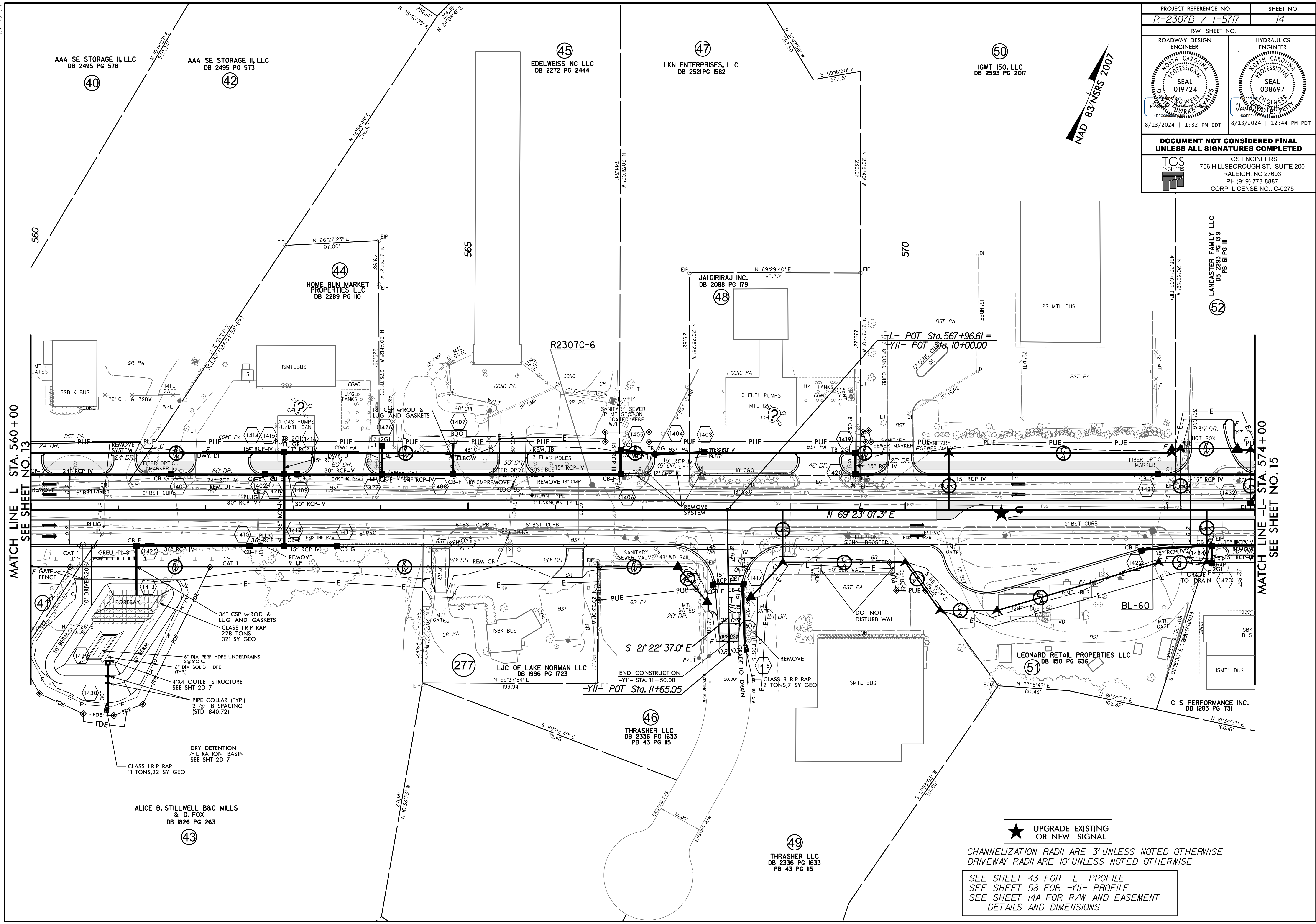
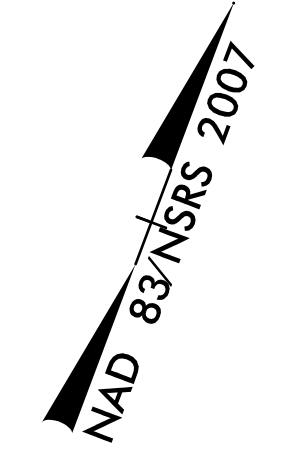
MATCH LINE -L- STA. 560+00
SEE SHEET NO. 14

SEE INSET A THIS SHEET

SEE INSET B THIS SHEET

RW & EASEMENT DETAILS

PROJECT REFERENCE NO. <i>R-2307B / I-5717</i>		SHEET NO. <i>14</i>	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
8/13/2024 1:32 PM EDT		8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



MATCH LINE -L- STA. 560 + 00
SEE SHEET NO. 13

MATCH LINE -L- STA. 574 + 00
SEE SHEET NO. 15

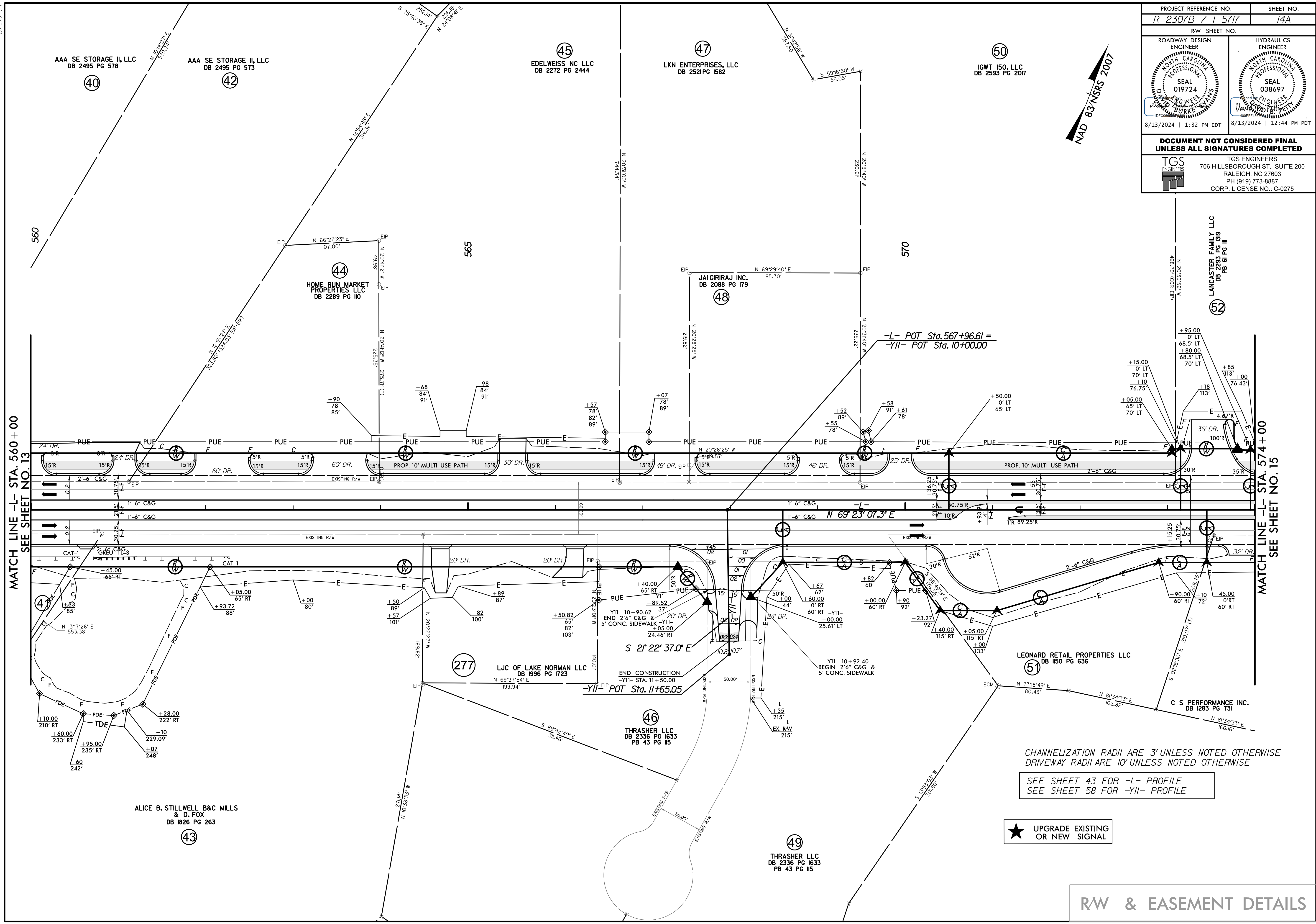
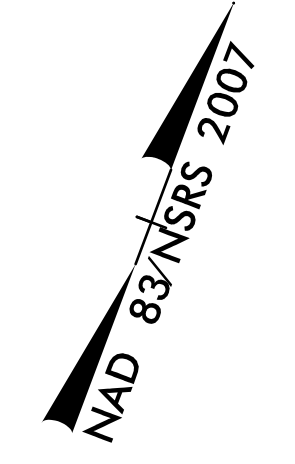
★ UPGRADE EXISTING OR NEW SIGNAL

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 58 FOR -YII- PROFILE
SEE SHEET 14A FOR R/W AND EASEMENT
DETAILS AND DIMENSIONS

8/13/2024 1:32:14 PM User: dbevans

PROJECT REFERENCE NO. <i>R-2307B / 1-5717</i>		SHEET NO. <i>14A</i>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
8/13/2024 1:32 PM EDT	8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		



MATCH LINE -L- STA. 560 + 00
SEE SHEET NO. 13

MATCH LINE -L- STA. 574 + 00
SEE SHEET NO. 15

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

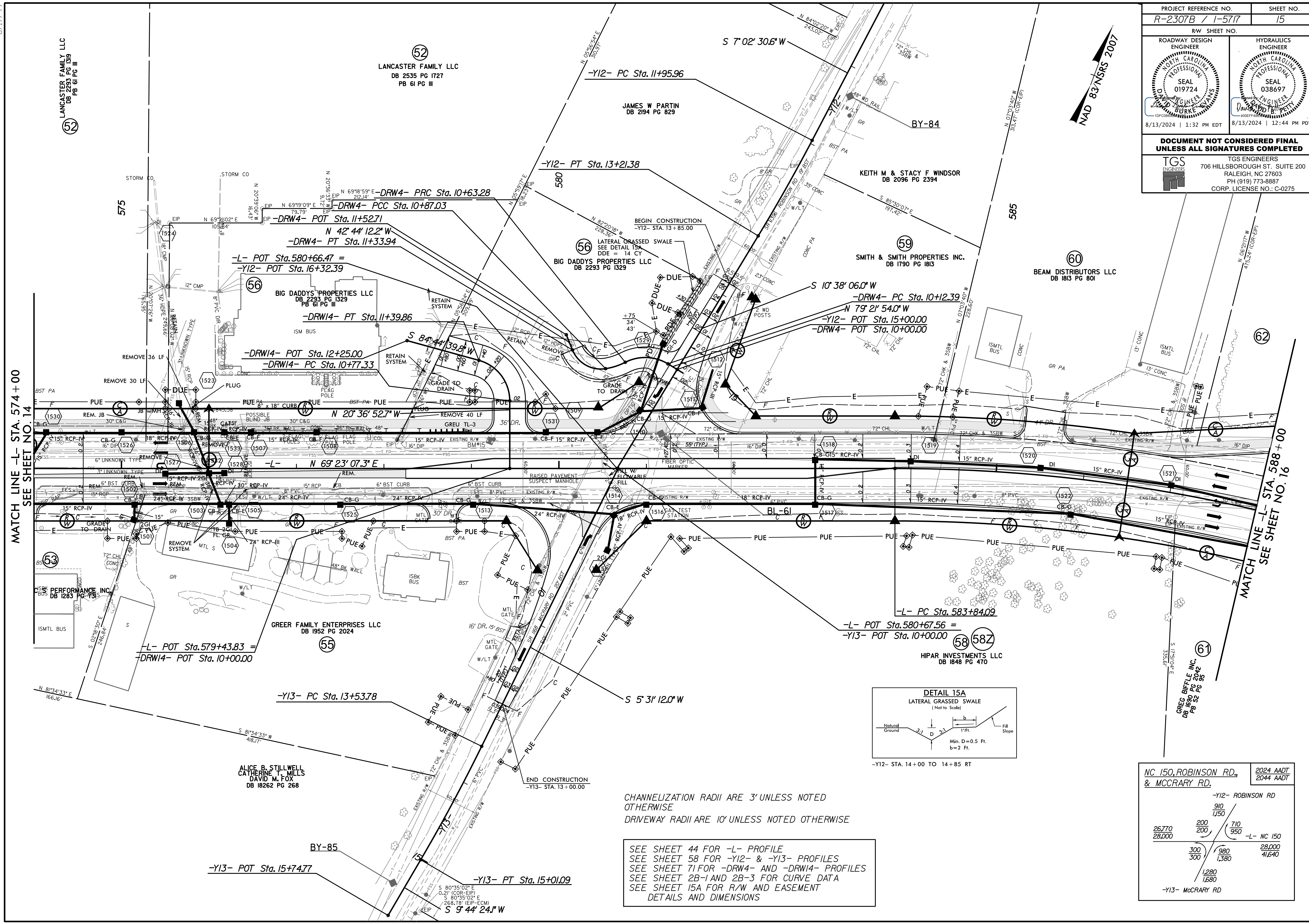
SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 58 FOR -YII- PROFILE

★ UPGRADE EXISTING
OR NEW SIGNAL

RW & EASEMENT DETAILS

8/13/2024 1:32 PM User: bevens

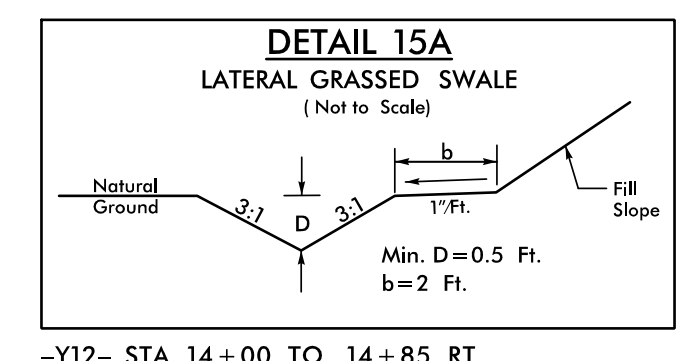
8/17/24



PROJECT REFERENCE NO. R-2307B / 1-5117	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER TGS ENGINEERS SEAL 019724	HYDRAULICS ENGINEER TGS ENGINEERS SEAL 038697
8/13/2024 1:32 PM EDT	8/13/2024 12:44 PM PDT
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

MATCH LINE -L- STA. 574+00
SEE SHEET NO. 14

MATCH LINE -L- STA. 588+00
SEE SHEET NO. 16

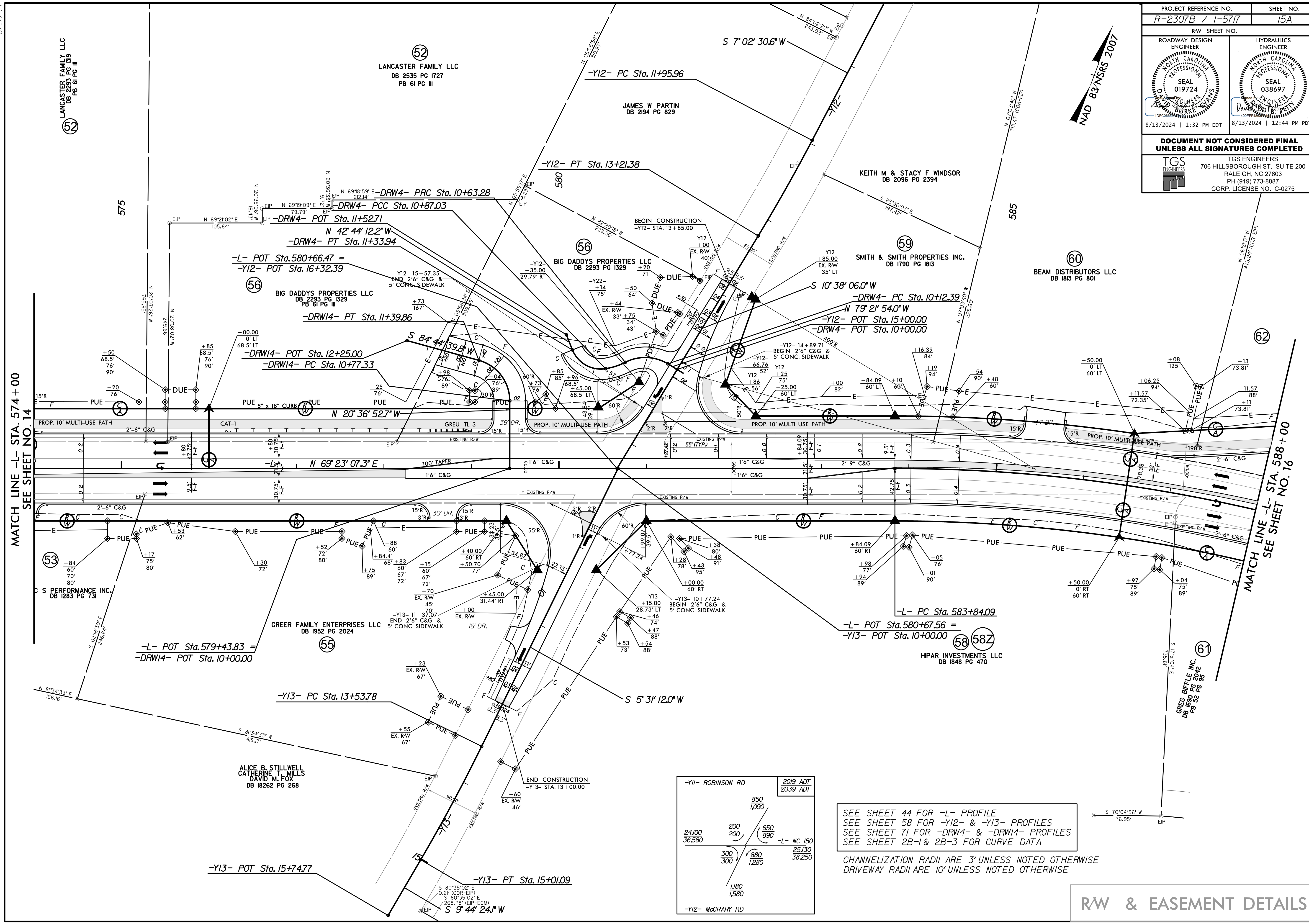


CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 44 FOR -L- PROFILE
SEE SHEET 58 FOR -Y12- & -Y13- PROFILES
SEE SHEET 71 FOR -DRW4- AND -DRW14- PROFILES
SEE SHEET 2B-1 AND 2B-3 FOR CURVE DATA
SEE SHEET 15A FOR R/W AND EASEMENT DETAILS AND DIMENSIONS

NC 150, ROBINSON RD., & MCCRARY RD.		2024 AADT	2044 AADT
		-Y12- ROBINSON RD	
26,770	200	910	710
28,000	200	1,150	950
		-L- NC 150	
	300	980	28,000
	300	1,380	41,640
		-Y13- MCCRARY RD	
		1,280	1,680

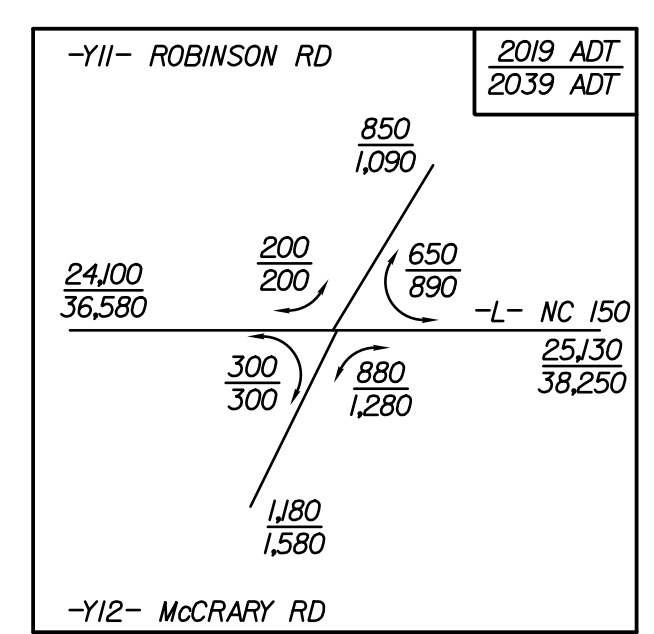
8/17/24



PROJECT REFERENCE NO. R-2307B / 1-5717		SHEET NO. 15A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		PROFESSIONAL SEAL 038697	
8/13/2024 1:32 PM EDT		8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

MATCH LINE -L- STA. 574+00
SEE SHEET NO. 14

MATCH LINE -L- STA. 588+00
SEE SHEET NO. 16

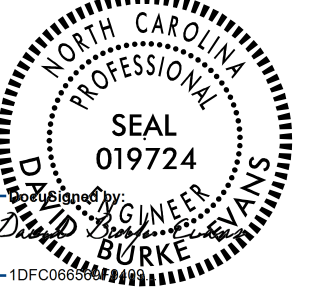
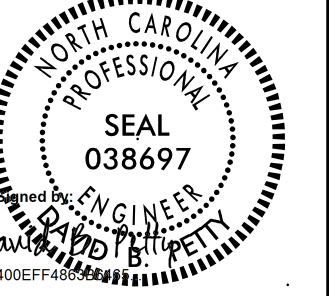
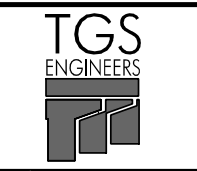


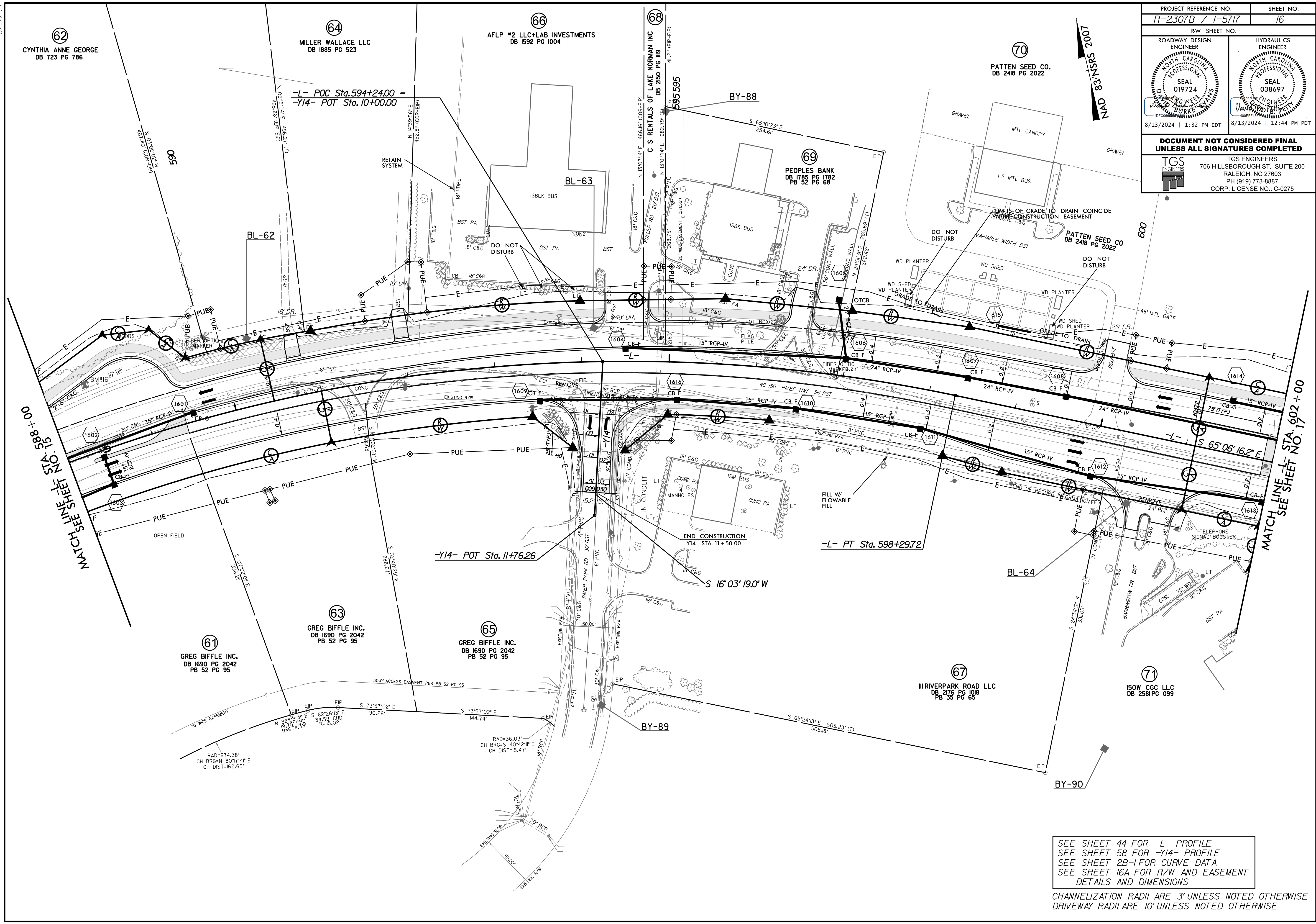
SEE SHEET 44 FOR -L- PROFILE
 SEE SHEET 58 FOR -Y12- & -Y13- PROFILES
 SEE SHEET 71 FOR -DRW4- & -DRW14- PROFILES
 SEE SHEET 2B-1 & 2B-3 FOR CURVE DATA

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

RW & EASEMENT DETAILS

8/17/24

PROJECT REFERENCE NO. <i>R-2307B / 1-5717</i>		SHEET NO. 16	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 SEAL 019724 DAVID B. BURK 4000 FAYETTEVILLE RD RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275		 SEAL 038697 DAVID B. PETTIT 4000 FAYETTEVILLE RD RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	
8/13/2024 1:32 PM EDT		8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

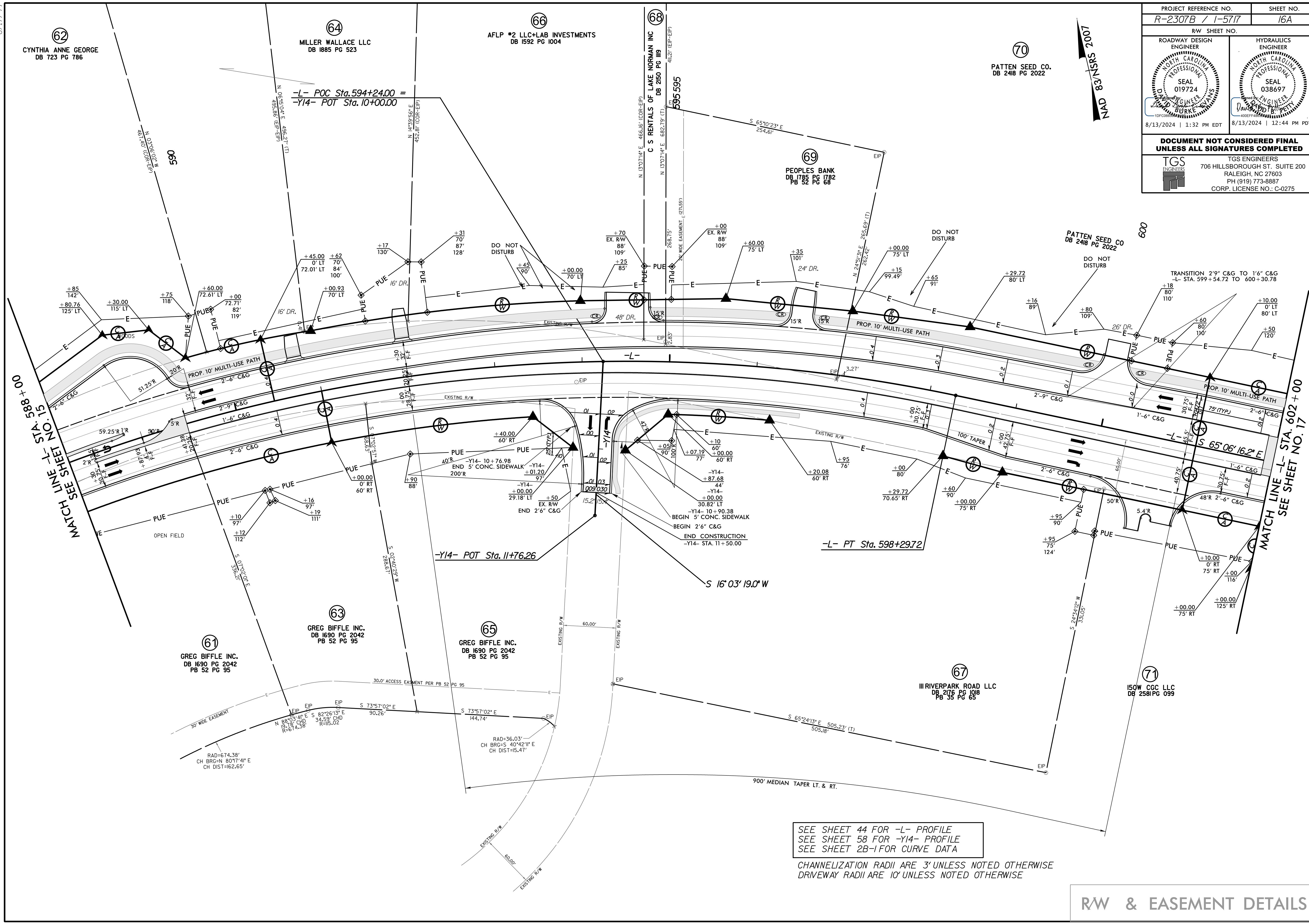


SEE SHEET 44 FOR -L- PROFILE
 SEE SHEET 58 FOR -Y14- PROFILE
 SEE SHEET 2B-1 FOR CURVE DATA
 SEE SHEET 16A FOR R/W AND EASEMENT
 DETAILS AND DIMENSIONS

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

8/13/2024 8:43:06 AM \\r-2307b\roadway\proj\R-2307B_RDY_PSH_16.dgn
 User: dbevans

8/17/24



PROJECT REFERENCE NO. R-2307B / 1-5117		SHEET NO. 16A	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 019724	
8/13/2024 1:32 PM EDT		8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

NAD 83/NSRS 2007

MATCH LINE -L- STA. 588.50

MATCH LINE -L- STA. 602.00
SEE SHEET NO. 17

SEE SHEET 44 FOR -L- PROFILE
 SEE SHEET 58 FOR -Y14- PROFILE
 SEE SHEET 2B-1 FOR CURVE DATA

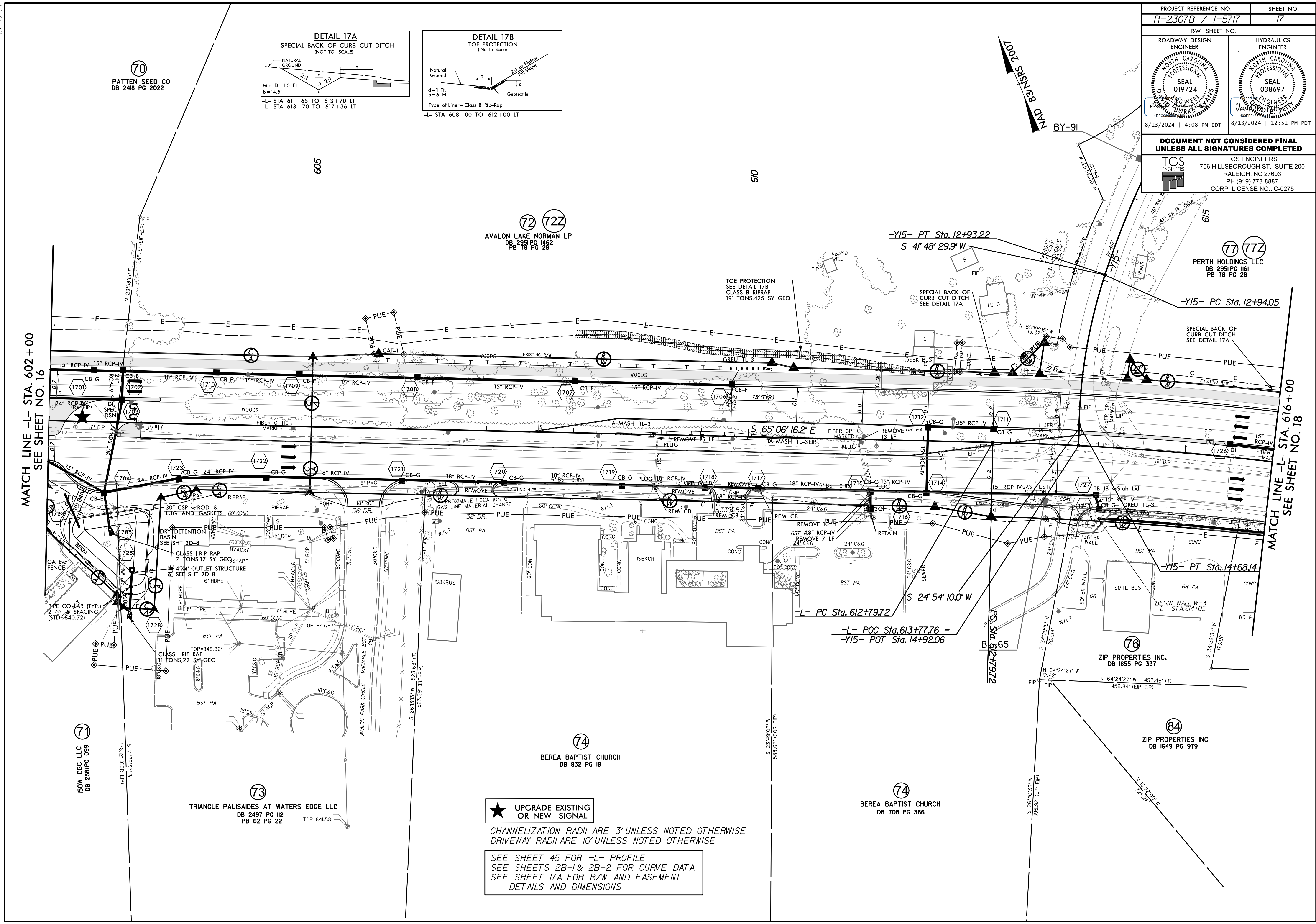
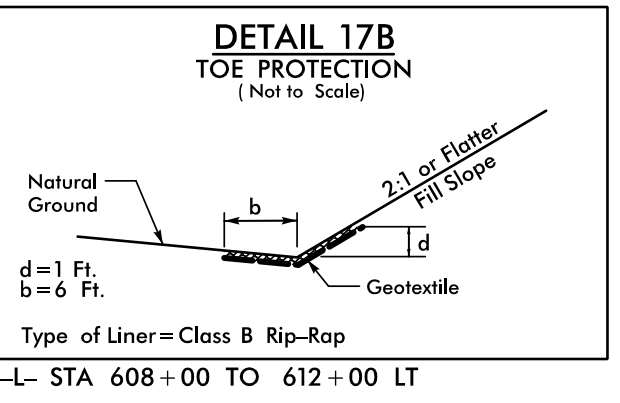
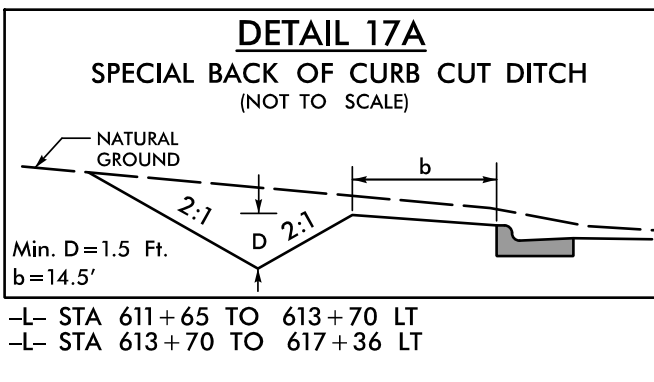
CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
 DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

RW & EASEMENT DETAILS

8/13/2024
K:\ncdot\1-2307b\roadway\proj\R-2307B_RDY_PSH_16A.dgn
User:dbvans

8/17/24

PROJECT REFERENCE NO. R-2307B / 1-5117		SHEET NO. 17	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		PROFESSIONAL SEAL 038697	
NORTH CAROLINA PROFESSIONAL SEAL 019724		NORTH CAROLINA PROFESSIONAL SEAL 038697	
8/13/2024 4:08 PM EDT		8/13/2024 12:51 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275	



8/13/2024
User: bveans

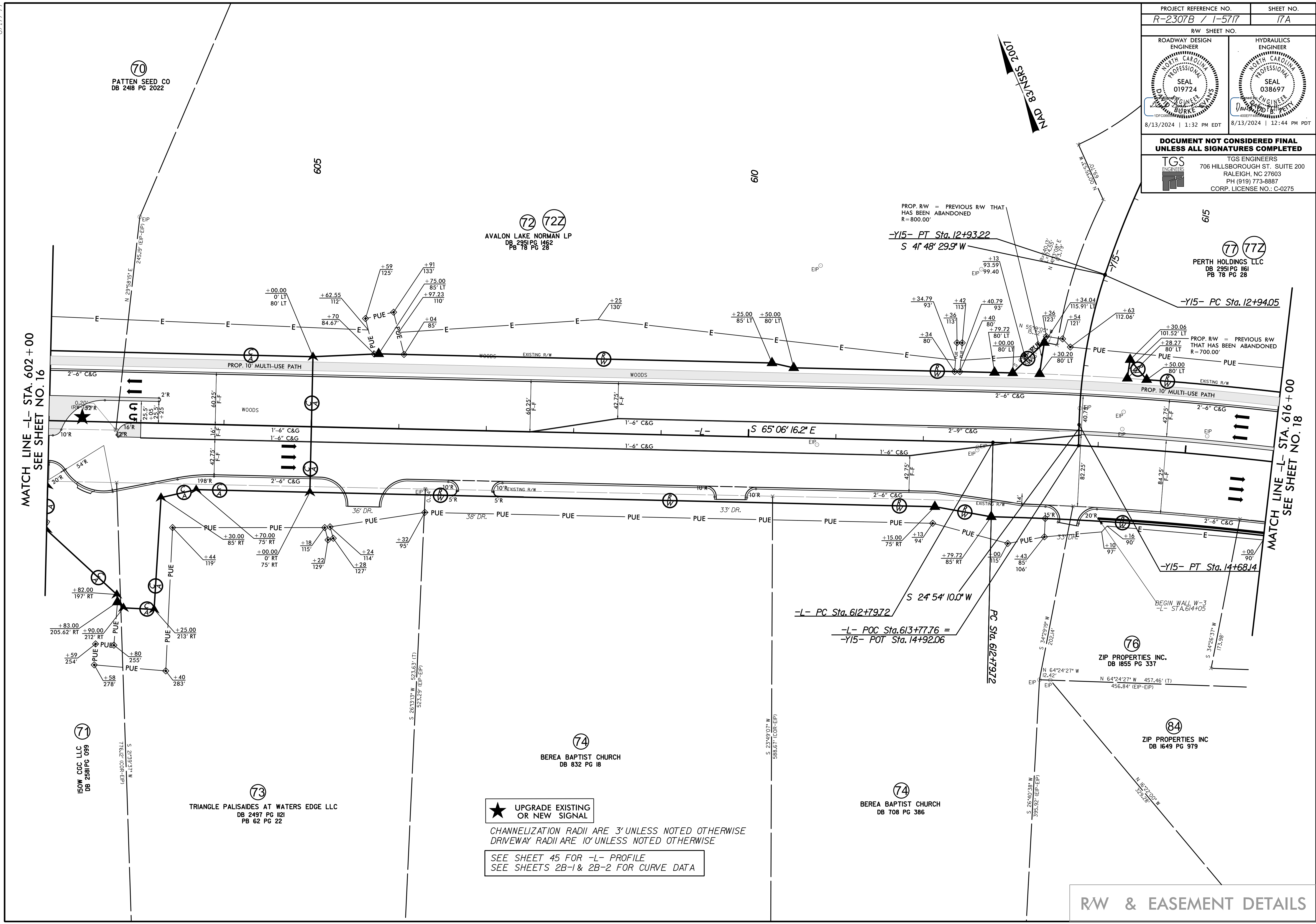
★ UPGRADE EXISTING OR NEW SIGNAL

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 45 FOR -L- PROFILE
SEE SHEETS 2B-1 & 2B-2 FOR CURVE DATA
SEE SHEET 17A FOR R/W AND EASEMENT
DETAILS AND DIMENSIONS

8/17/24

PROJECT REFERENCE NO. <i>R-2307B / 1-5717</i>		SHEET NO. <i>17A</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
8/13/2024 1:32 PM EDT		8/13/2024 12:44 PM PDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



8/13/2024
User: dbvans

MATCH LINE -L- STA. 602 + 00
SEE SHEET NO. 16



MATCH LINE -L- STA. 616 + 00
SEE SHEET NO. 18

★ UPGRADE EXISTING OR NEW SIGNAL

CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

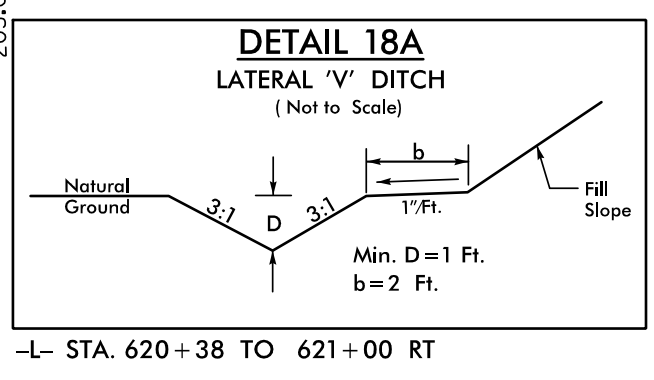
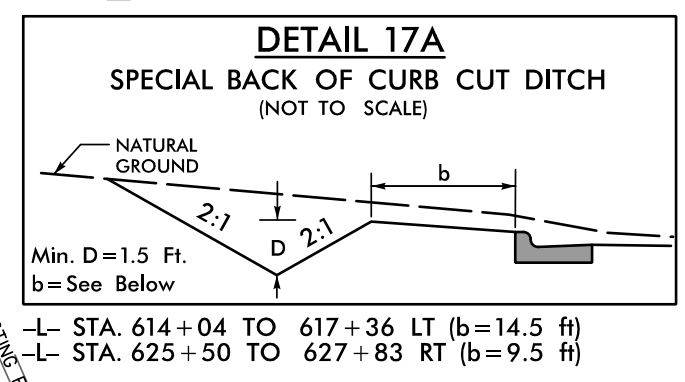
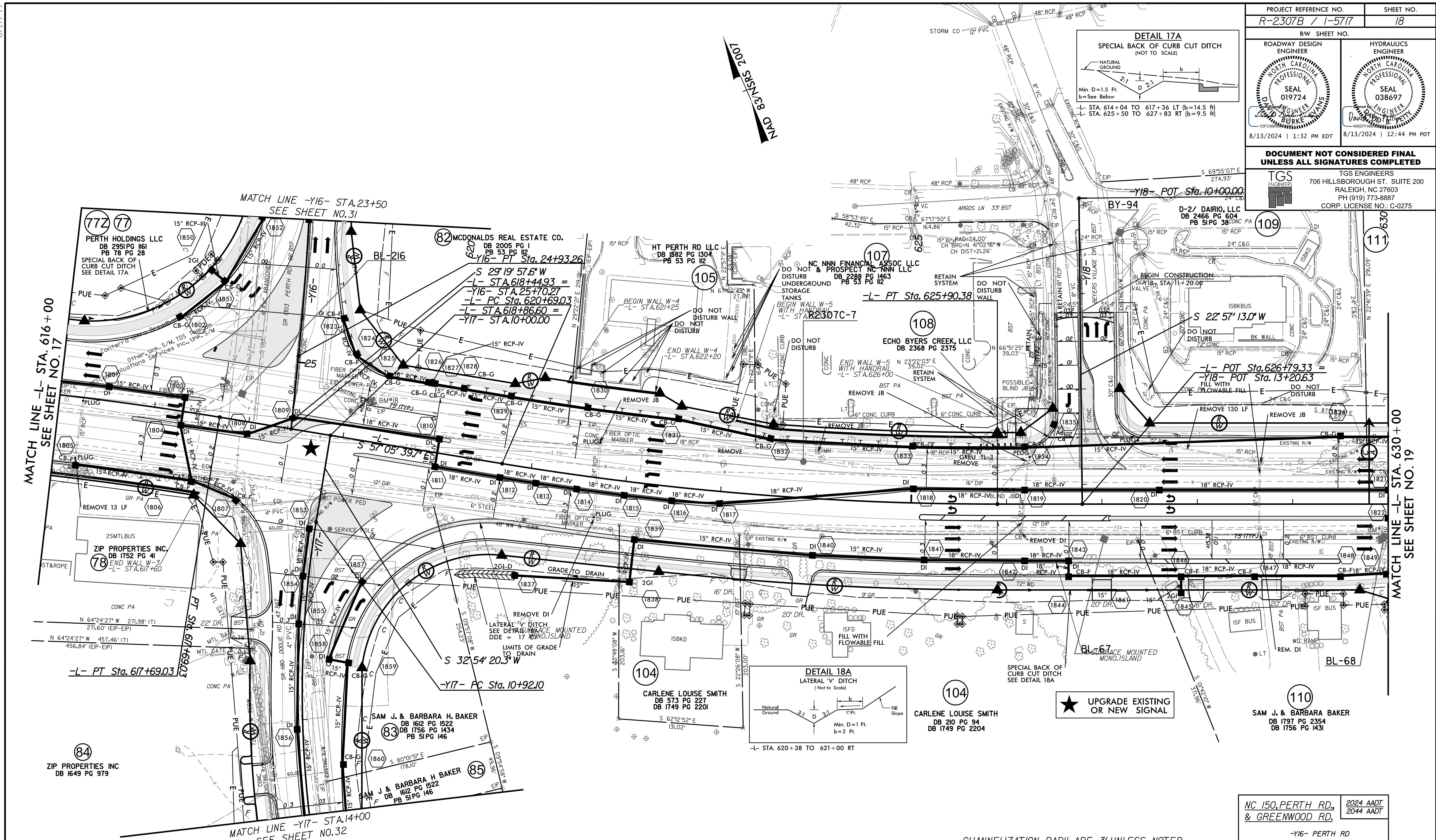
SEE SHEET 45 FOR -L- PROFILE
SEE SHEETS 2B-1 & 2B-2 FOR CURVE DATA

RW & EASEMENT DETAILS

PROJECT REFERENCE NO. R-2307B / 1-517		SHEET NO. 18
RW SHEET NO.		
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 	
8/13/2024 1:32 PM EDT		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH ST., SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275



CHANNELIZATION RADII ARE 3' UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 45 FOR -L- PROFILE
SEE SHEET 59 FOR -Y16- PROFILE
SEE SHEET 60 FOR -Y17- PROFILE
SEE SHEET 61 FOR -Y18- PROFILE
SEE SHEETS 2B-1 & 2B-2 FOR CURVE DATA
SEE SHEET 18A FOR R/W AND EASEMENT DETAILS AND DIMENSIONS

NC 150, PERTH RD. & GREENWOOD RD.			
2024 AADT 2044 AADT			
-Y16- PERTH RD			
	11,510		
	13,750		
27,960	4,350	5,620	
41,640	5,790	6,100	
			-L- NC 150
	450	3,470	
	690	4,510	
			32,190
			45,710
		5,520	
		7,120	
			-Y17- DOOLIE RD