

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
-L-	671+75	686+50	LT & RT	SD	3000
-L-	686+55	690+50	LT & RT	SD	825
-L-	690+50	703+00	LT & RT	SD	2550
-L-	703+00	707+75	LT	SD	500
-L-	707+75	712+00	LT & RT	SD	875
-L-	712+00	716+25	LT	SD	450
-L-	723+25	726+25	LT & RT	SD	625
-L-	727+75	730+50	LT & RT	SD	575
-L-	730+50	733+25	LT	SD	300
-L-	733+25	736+75	LT&RT	SD	725
-L-	736+75	741+50	LT&RT	SD	500
-L-	741+50	744+25	LT & RT	SD	575
-L-	744+25	745+75	LT	SD	175
-L-	745+75	751+75	LT & RT	SD	1225
-L-	751+75	754+25	LT	SD	275
-L-	754+25	758+25	LT&RT	SD	825
-Y17-	10+00	13+25	LT	SD	350
-Y18-	12+25	15+50	LT	SD	350
-Y21-	10+50	12+75	LT	SD	250
-Y24-	11+65	15+83	RT	SD	425
-Y25-	14+00	15+99	RT	SD	225
CONTINGENCY					2000
TOTAL LF:					17,600

*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-	355+75	356+25	ASU(1)	12	50	100	150		
-L-	379+75	382+25	ASU(1)	12	150	450	670		
-L-	439+75	442+25	ASU(1)	12	150	300	450		
-L-	647+75	648+75	ASU(1)	12	150	400	600		
-L-	695+75	698+25	ASU(1)	12	220	520	780		
-L-	726+75	728+25	ASU(1)	12	70	370	550		
-L-	732+75	737+25	ASU(1)	12	160	640	960		
-L-	742+75	745+25	ASU(1)	12	100	400	600		
-L-	756+25	760+25	ASU(1)	12	150	520	780		
-L-	778+25	780+25	ASU(1)	12	220	610	920		
-L-	810+75	821+25	ASU(1)	12	580	2,490	3,720		
-L-	827+25	830+25	ASU(1)	12	170	350	510		
-Y17-	10+75	13+25	ASU(1)	12	210	420	630		
-Y23-	10+75	12+25	ASU(1)	12	60	180	210		
-Y24-	12+50	14+25	ASU(1)	12	70	150	210		
-Y26-	22+25	25+50	ASU(1)	12	240	590	780		
-Y26A-	12+25	14+25	ASU(1)	12	40	80	120		
-Y27-	10+25	12+75	ASU(1)	12	120	560	830		
-SR1-	15+00	17+77	ASU(1)	12	40	120	180		
CONTINGENCY					1,000	2,000	3,000		
TOTAL CY/TONS/SY:					3,950	11250**	16650**		

*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.

8/17/99

R:\2024\Proj\Proj\5709C_Rdy_bsh030_1.dgn
11/20/2024 10:00:00 AM

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
183	4	CEDAR HALL FARMS, LLC.
184		PARCEL ELIMINATED
185		PARCEL ELIMINATED
186		PARCEL ELIMINATED
187	4	J.K. MCNEIL, SR. HEIRS
188	4	JESUS RIVERA AND WIFE, PAULA P. RIVERA
189	4	PALM COMMERCIAL MANAGEMENT, LLC
190	4 & 5	THE NATURE CONSERVANCY
191	4	PAUL A. KING
192	4	PAUL A. KING
193	4	GWINDOLYN GARRETT WILLIAMSON
194		PARCEL ELIMINATED
195	4 & 5	JOHN M. KING, TRUSTEE OF THE JOHN M. KING REVOCABLE TRUST U/A DATED MAY 18, 2017, A 1/2 UNDIVIDED INTEREST & VERITA B. KING, TRUSTEE OF THE VERITA B. KING REVOCABLE TRUST U/A DATED MAY 18, 2017, A 1/2 UNDIVIDED INTEREST
196	5	PAUL A. KING
197	5	RICHARD T. SATTERWHITE
198	5	MICHAEL W. GEORGE
199	5	WOODROW WILSON
200	6	JAMES R. SCHIELER AND WIFE, DOROTHY JENEE WRENN SCHIELER
201	6	MERVIN MULLET AND WIFE, MAGDALENA MULLET
202	6	JOHN WATSON AND WIFE, REATHA S. WATSON
203	6	GARY B. THOMAS REAL ESTATE
204	6	DEAN R. WALLACE
205	6 & 7	GENTRY RESTORATION, LLC
205A	6 & 7	SAMUEL CORNOG AND WIFE, SHERRY CORNOG
206	5 & 6	PETER J. KAUFFMAN AND WIFE, REBECCA F. KAUFFMAN
207	6	DEBRA STEPHENSON
208	6	HOPE AMANDA HARRIS
209	6	ALBERT LEWIS HASKINS, III AND WIFE, YVONNE WILSON HASKINS
209A		PARCEL ELIMINATED
210		PARCEL ELIMINATED
211	6-13	NCDA
211A	8-14	DPS
211B	14	JOSE ANDRES CIRIACO SANCHEZ
211C	14	ADDIE MCCRIMMON HEIRS
211D	14	FAUSTO TORRES MEDEROS AND WIFE, SARA GARCIA ALIZAR
211E	14	MITCHELL BAKER AND WIFE, LENA BAKER
211F		PARCEL ELIMINATED
212	14	MUBARAK ALI AHMED SHAHBAIN
213	14 & 15	JOHN R. CAGLE, JR AND MONA CAGLE
214	15	DAVID B. LINTHICUM
215	15	NORMAN MORRIS
216	15	RED WOODPECKER LLC
217		PARCEL ELIMINATED
217A	15	KIM CUMMINGS AND WIFE, ANNETTE J. CUMMINGS

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
217B	15	ADA McKEE
218	15 & 16	SHARON BULLARD
218A	15 & 16	RUSSELL McNEILL
219	16	EDDIE LASHLEY, JR. & WIFE, BARBARA A. LASHLEY
220	16	S & H RENTAL, INC.
221	16	MARSHA PARKS BROADWAY
222	16	MUBARAK SHAHBAIN
225	16	WANDA SIZEMORE-RICHARDSON
226	16 & 17	SHILOH PRESBYTERIAN CHURCH
226A	16 & 17	JOHNNY D. DAVIS
226B	17	ROBERT ERLE DOWNING AND WIFE ALICE R. DOWNING
227	17	LARRY K. SHERLING, JR. & MARIE E. SATKOSKI
228	17	HARRY F. BROMLEY
229	17 & 18	ROY W. WOOD AND WIFE, PATRICIA H. WOOD
230	18	JAMES P. LUCE & WIFE, GABRIELLE B. LUCE
231	18 & 19	DANIEL ADAM COUTURE
232	19	HERBERT L. JONES AND WIFE, JENNIFER L. JONES
233		PARCEL ELIMINATED
234	19 & 20	LUKE P. HAYWARD AND WIFE, CONNIE L. HAYWARD
234A	19 & 20	ALBERT PARKS
235	20	ALTON GODWIN AND LOU ANN RYDER
236	20	AARON PHILLIP COLWELL
237	20	MELISSA L. HOAGLIN AND HUSBAND, DENNIS R. HOAGLIN
238	20	STEEPLECHASE HOA
239	20	LESLIE E. TRAYLOR AND WIFE, REBECCA G. TRAYLOR
240	20	JOHN CHAMBERS AND WIFE, EVELYN CHAMBERS
241	20 & 21	WILLIAM W. CAMERON, JR, AND WIFE, RHENDA P. CAMERON
242	21	CHRISTOPHER D. COBOS AND WIFE, ARNIE JO COBOS
243	21	ASHLEY J. SHAFFERMAN
244	21	TAMEKA L. LLOYD AND HUSBAND, CHRISTOPHER M. LLOYD
245	21	DERICK WILLIAMS AND HARRIET WILLIAMS
246	21	LEROY E. SCHOFIELD AND WIFE, MARIA MARTINEZ
211P	21	THOMAS RAY ASKEW AND WIFE, JUANESHIA D. ASKEW
211Q	21	STEVEN G. GENEVISH AND WIFE, HILARY A. GENEVISH
211R	21 & 22	ROBERT W. LEE AND WIFE, SYLVIA D. LEE
247	21	ANTHONY JAMES LEROY SHEETS AND WIFE, APRIL MARIE CEQUINA
248	21	LUIS A. TORRES AND WIFE, NANCY TORRES
249	21	CHARLES WILLIAM KARLESKINT AND WIFE, SARAH M. KARLESKINT
250	21	ENRIQUE RODRIGUEZ, III AND WIFE, DAWN ELIZABETH RODRIGUEZ
251	21	BRIAN LEE SHAW AND WIFE, ANNA SHAW
252	21 & 22	COREY L. CLARK AND WIFE, TAWANDA N. CLARK
253	22	JOSEPH SMITH AND WIFE, KELLY SMITH
254	22	ANGELA P. JACKSON
255	22	JORGE M. FERNANDEZ AND WIFE, LEAANNA L. FERNANDEZ
256	22	JOHN GANLEY AND WIFE, JULIE A. GANLEY
257	22	MAURICE A. SHANNON JR. AND WIFE, LILY SHANNON-NEGRON
258	22	MICHEAL R. WALLACE AND WIFE, DEBORAH L. WALLACE

5/28/99

R:\2004\Projects\5709C\RDY\psh03P_1-3.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
259	22	JOSE CARLOS COMETTANT AND WIFE, KRISTIE COMETTANT
260	22	BRIAN W. JONES AND WIFE, AMY E. JONES
261	22	JARROD MURPHY AND WIFE, CYNTHIA MURPHY
262		PARCEL ELIMINATED
263	22	SHEREME D. SCOTT AND SPOUSE, JERMAINE E. SCOTT
264	22	DAVID F. KUMMERFELDT AND WIFE, ROBIN L.K. KUMMERFELDT
265	22	PHILLIP E. HARTE AND WIFE, KRISTEN L. HARTE
266	22	MARK A. PULLEY AND WIFE, TERIN L. PULLEY
267	22	UNKNOWN OWNER
268	22 & 23	GARY MCMILLAN
268A	22 & 23	LOUIS C. THOMAS AND WIFE, BEATRICE M. THOMAS
269	22 & 23	KENNETH MCNEILL DARRIN MCNEILL LOUIS C. THOMAS
270	23	DARRIN MCNEILL
270A	23	QUENZELL THOMAS AND WIFE, KAREN RAY THOMAS
271	23	ABK RENTAL PROPERTIES, INC.
271E	28 & 29	HARRIETT MCDONALD FAMILY TRUST
271F		PARCEL ELIMINATED
272	23	TOTAL PRAISE AND DELIVERANCE CHURCH OF GOD
273	23	TOTAL PRAISE AND DELIVERANCE CHURCH OF GOD
274	23	WILLIAM ARTHUR MCGREGOR
275	23	SARAH GILMORE
276	23	RUDOLPH S. BALDWIN AND WIFE, MARY G. BALDWIN
277	23 & 24	MARY C. HARRIS
277A	23 & 24	LOUIS C. THOMAS AND WIFE, BEATRICE M. THOMAS
279	24	PAULINE HARRIS
280	24	GLORIA M. VINEY
281	24	WILLAM W. CAMERON AND WIFE, RHENDA P. CAMERON
282	24 & 25	DANIEL T. POTTS, JR. AND WIFE, DENISE M. POTTS
283	25	TIMBERLAND RANCH LLC
283A	23-26	THE NATURE CONSERVANCY
283B	26	ELLIS F. HARRIS AND WIFE, MARGARET A. HARRIS
283C	26 & 27	MELISSA McQUAGE
283D	27	ROY LEE HARRIS AND WIFE, DONNA HARRIS
283E	25 & 26	J & K GENERAL CONTRACTOR, INC
284	26	JEANETTE C. WOOD
285	26 & 27	PAULA HUTCHINSON
286	27	ROBERT KENNETH CURRIE
286A	27 & 28	STONE CONTAINER CORP.
287	27 & 28	WILBUR A. SCHRUM AND WIFE, MARIBETH HORGAN SCHRUM
288	28	FRANCES C. BYRD
289	29	RICHARD D. BYRD HEIRS
289A	28 & 29	ANITA SPARKES AND HUSBAND PAUL SPARKES
290	29	WILBUR A. SCHRUM AND WIFE, MARIBETH HORGAN SCHRUM
291	29	LINDA A. SOPER AND CAROLYN F. MCNEILL
292	29	WILBER A. SCHRUM AND WIFE, MARIBETH HORGAN SCHRUM
293	29	GARY N. ARMENTROUT AND WIFE, TEMPIE W. ARMENTROUT
294	29	GARY N. ARMENTROUT AND WIFE, TEMPIE W. ARMENTROUT
295	29 & 30	JOHNNY A. WHITE, II AND WIFE, CERISSA D. WHITE

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
296	29 & 30	WENONA LOWERY
297	30	COLIN E. CAMERON AND IAN P. CAMERON
298	30 & 31	EDWARD L. CAMERON AND WIFE, EILEEN KIRWIN CAMERON
299	30 & 31	ANNIE BLUE CAMERON PERRY
300	31	BRADLEY R. CALLOWAY AND WIFE, BRANDI CALLOWAY
301	31	BRADLEY R. CALLOWAY AND WIFE, BRANDI CALLOWAY
302	31 & 32	JACK L. BLANTON AND WIFE, CAROLYN D. BLANTON
303	31	LULA S. NELSON
304	31	CAMMIE CALLOWAY
305	31	BRADLEY R. CALLOWAY
306	31	BRADLEY R. CALLOWAY
307	31 & 32	WAYNE FLOWERS AND WIFE, MARY FLOWERS
307A	31 & 32	RALPH L. CALLOWAY
308	32	BRADLEY R. CALLOWAY & WIFE, BRANDI CALLOWAY
308A	32	THOMAS MEWHERTER AND WIFE, STEPHANIE MEWHERTER
309	32	WILTON EARL SMITH
310	32 & 33	THOMAS A. STRICKLAND & WIFE, KIMBERLY R. STRICKLAND
311	32	ROBERT D. SEALS & WIFE, JENNIFER A.N. SEALS
312	32	BRYON CLARK AND WIFE, AMANDA CLARK
313	32 & 33	JOSHUA ROUSE AND WIFE, AMANDA SCHNEIDER
314	33 & 34	BRADLEY R. CALLOWAY & WIFE, BRANDI CALLOWAY
315	33 & 34	MARY TRUETT JORDAN BUIE
315A	34	WRIGHT AND BEST, INC.
315B		PARCEL ELIMINATED
316		PARCEL ELIMINATED
317	34	BIG AND LITTLE FAITH TEMPLE CHURCH
318	34	ERNESTINE T. BEATTY
319	34 & 35	JORGE SANCHEZ CARRANZA AND ERNESTO SANCHEZ CARRANZA
320	35	TARSHA MCRAE
321	35	TREVA L. ELLIOTT
322	35	DHAREZ NEAL AND SPOUSE, COURTNEY S. NEAL
323	35	SHAWN C. SINCLAIR
324	35	ANGELA WHITE
325	35 & 36	LESLIE RAYMOND IRION, JR. AND WIFE, BETTY R. IRION
326	36	RAFAEL J. RIVERA
327	36	JOHN DAVIS AND WIFE, GAY DAVIS
328	36	DERRICK L. WATKINS AND SPOUSE, ONIKA A. WATKINS
329	36	PHILIP L. MCMILLIAN, II AND WIFE, FELICIA A. MCMILLIAN
330	36	PATRICIA D. DOLAN AND HUSBAND, JOHN R. DOLAN, II
330A	36	MARCELO E. RODRIGUEZ
331	36	SCOTT NORBURY
332	35-38	MARY GWEN THOMAS WELBORN
333	45	WILLIAM F. WRIGHT AND WIFE, ANNE S. WRIGHT
333A	38	JAMES MCRAE HEIRS
333B	38	WILLIAM MCFAYDEN
333C	38 & 39	SHERMAN MCRAE
333D	38 & 39	THOMAS WRIGHT, SR.
334	38	PIERRE LAMONT DIXON AND PAMELA R.DIXON

5/28/99

R:\2004\Projects\5709C_Rdy\psh03P_1-3.dgn
10/20/04

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
335	38	VANN DARYL MCINTOSH AND WIFE, GLORIA MCINTOSH
336	38	ANNIE MAE MOULTRIE
337	38	BIBLE HOLINESS CHURCH, INC.
337A	38	BIBLE HOLINESS CHURCH, INC.
338	38	JAMES MCRAE HEIRS
339	38	HERMAN L. SANDERS AND WIFE, JOAN C. SANDERS
340	38 & 39	THOMAS F. WRIGHT, SR.
341	39	WOODROW LEE HEDGEPEETH AND WIFE, ESTHER H. HEDGEPEETH
342	39 & 40	DAVID DRAUGHON AND WIFE, JUDY DRAUGHON
342A	39 & 40	DANNY PHILLIPS
343	39	MCHEAUX HOLLINGSWORTH, ET ALS
344	39	ALTON LEE GODWIN AND WIFE, ROSEMARIE GODWIN
345		PARCEL ELIMINATED
346	39 & 40	THOMAS F. WRIGHT, SR.
347		PARCEL ELIMINATED
348	40	NANCY W. DOWNING
349	40	JAMES W. HAYNIE, SR.
350	40 & 41	THOMAS F. WRIGHT, SR.
351	40 & 41	THE HOKE COUNTY BOARD OF EDUCATION
352	41	LAZER SPOT, INC.
353	41	RICHARD DARYL BYRD
354	41	HUBERT BYRD, JR. ET AL
355	41	PHILLIP R. TAYLOR
356	41	THE LANDSOUTH COMPANY, LLC
356A	41	BURLINGTON INDUSTRIES, LLC
357	41 & 42	BURLINGTON INDUSTRIES, LLC
358	41	SHANGRILA ENTERPRISES, LLC
359	41 & 42	ZUBEDA, LLC
360	42	JAMES TERRY LEWIS AND SIM LEWIS, JR.
361	42	BURLINGTON INDUSTRIES, INC.
362	41 & 42	HERSHEL R. NIXON, JR. AND WIFE, BETTY J. NIXON
363	42	CITY OF RAEFORD
364	42	THE CHURCH OF GOD PROPHECY
365	42	CYNTHIA GOODMAN
366		PARCEL ELIMINATED
367		PARCEL ELIMINATED
368		PARCEL ELIMINATED
369		PARCEL ELIMINATED
370		PARCEL ELIMINATED
371		PARCEL ELIMINATED
372		PARCEL ELIMINATED
373		PARCEL ELIMINATED
374		PARCEL ELIMINATED
375		PARCEL ELIMINATED
376		PARCEL ELIMINATED
377		PARCEL ELIMINATED
378		PARCEL ELIMINATED

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
379		PARCEL ELIMINATED
380		PARCEL ELIMINATED
381		PARCEL ELIMINATED
382		PARCEL ELIMINATED
383		PARCEL ELIMINATED
384		PARCEL ELIMINATED
385		PARCEL ELIMINATED
386		PARCEL ELIMINATED
387		PARCEL ELIMINATED
388		PARCEL ELIMINATED
389		PARCEL ELIMINATED
390		PARCEL ELIMINATED
391		PARCEL ELIMINATED
392		PARCEL ELIMINATED
393		PARCEL ELIMINATED
394		PARCEL ELIMINATED
395		PARCEL ELIMINATED
396		PARCEL ELIMINATED
397		PARCEL ELIMINATED
398		PARCEL ELIMINATED
399		PARCEL ELIMINATED
400		PARCEL ELIMINATED
401		PARCEL ELIMINATED
402		PARCEL ELIMINATED
403		PARCEL ELIMINATED
404		PARCEL ELIMINATED
405		PARCEL ELIMINATED
406		PARCEL ELIMINATED
407		PARCEL ELIMINATED
408		PARCEL ELIMINATED
409		PARCEL ELIMINATED
410		PARCEL ELIMINATED
411	14 & 43	FT BRAGG MILITARY RESERVATION
412	44	BURLINGTON INDUSTRIES, INC
412A	44 & 45	NORTH RAEFORD FIRE DEPARTMENT, INC.
412B		PARCEL ELIMINATED
412C	44 & 45	PHILLIP R. TAYLOR
413		PARCEL ELIMINATED
414		PARCEL ELIMINATED
415		PARCEL ELIMINATED
416		PARCEL ELIMINATED
417		PARCEL ELIMINATED
418		PARCEL ELIMINATED
419		PARCEL ELIMINATED
420	44	STATE OF NORTH CAROLINA

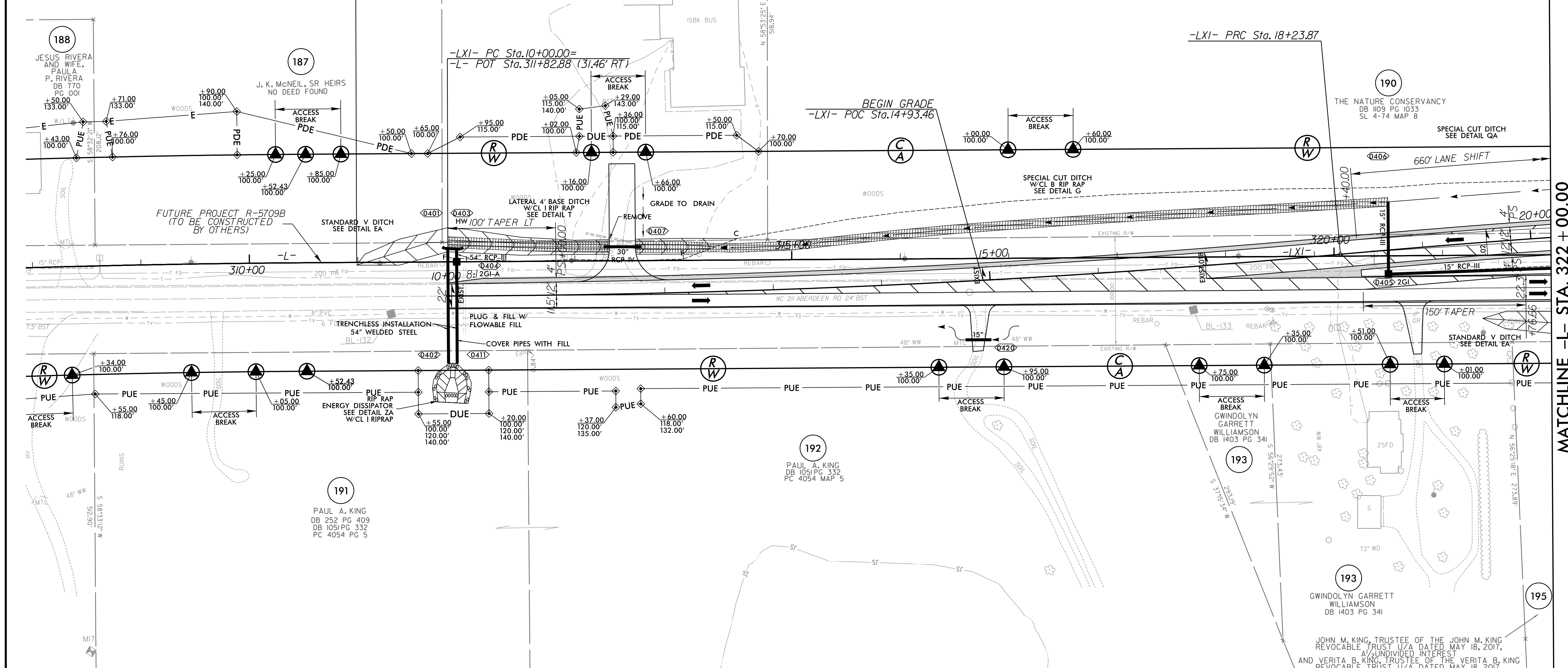
5/28/99

R:\28\2024
R:\28\2024\ProJ\N5709C_Rdy_psh03P_1-3.dgn
10/20/2024

NAD 83 / NA 2011

BEGIN CONSTRUCTION

-L- Sta. 310+98.86



-LXI-	
PI Sta 14+21.9	PI Sta 22+21.65
$\Delta = 4' 58'' 07.8''$ (LT)	$\Delta = 4' 47'' 43.4''$ (RT)
$D = 0' 36'' 11.2''$	$D = 0' 36'' 11.2''$
$L = 823.87'$	$L = 795.11'$
$T = 412.19'$	$T = 397.79'$
$R = 9,500.00'$	$R = 9,500.00'$
$SE = RC$	$SE = RC$
$V = 60$ MPH	$V = 60$ MPH

MATCHLINE -L- STA. 322 + 00.00
SEE SHEET 5

FOR -LXI- PROFILE, SEE SHEET NO. 46

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

RKK
 P: (919) 878-9560
 8801 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8.17.19
 10/15/2024
 R:\Roadway\N\Proj\N5709C_Rdy_psh04.dgn

183
 CEDAR HALL FARMS, LLC
 DB 124
 PG 474
 PC 4108
 PG 7

189
 PALM COMMERCIAL MANAGEMENT, LLC
 DB 1086 PG 114

191
 PAUL A. KING
 DB 252 PG 409
 DB 1051 PG 332
 PC 4054 PG 5

192
 PAUL A. KING
 DB 1051 PG 332
 PC 4054 MAP 5

193
 GWINDOLYN GARRETT WILLIAMSON
 DB 1403 PG 341

193
 JOHN M. KING, TRUSTEE OF THE JOHN M. KING REVOCABLE TRUST U/A DATED MAY 18, 2017, A 1/2 UNDIVIDED INTEREST AND VERITA B. KING, TRUSTEE OF THE VERITA B. KING REVOCABLE TRUST U/A DATED MAY 18, 2017, A 1/2 UNDIVIDED INTEREST
 DB 1219 PG 234

195

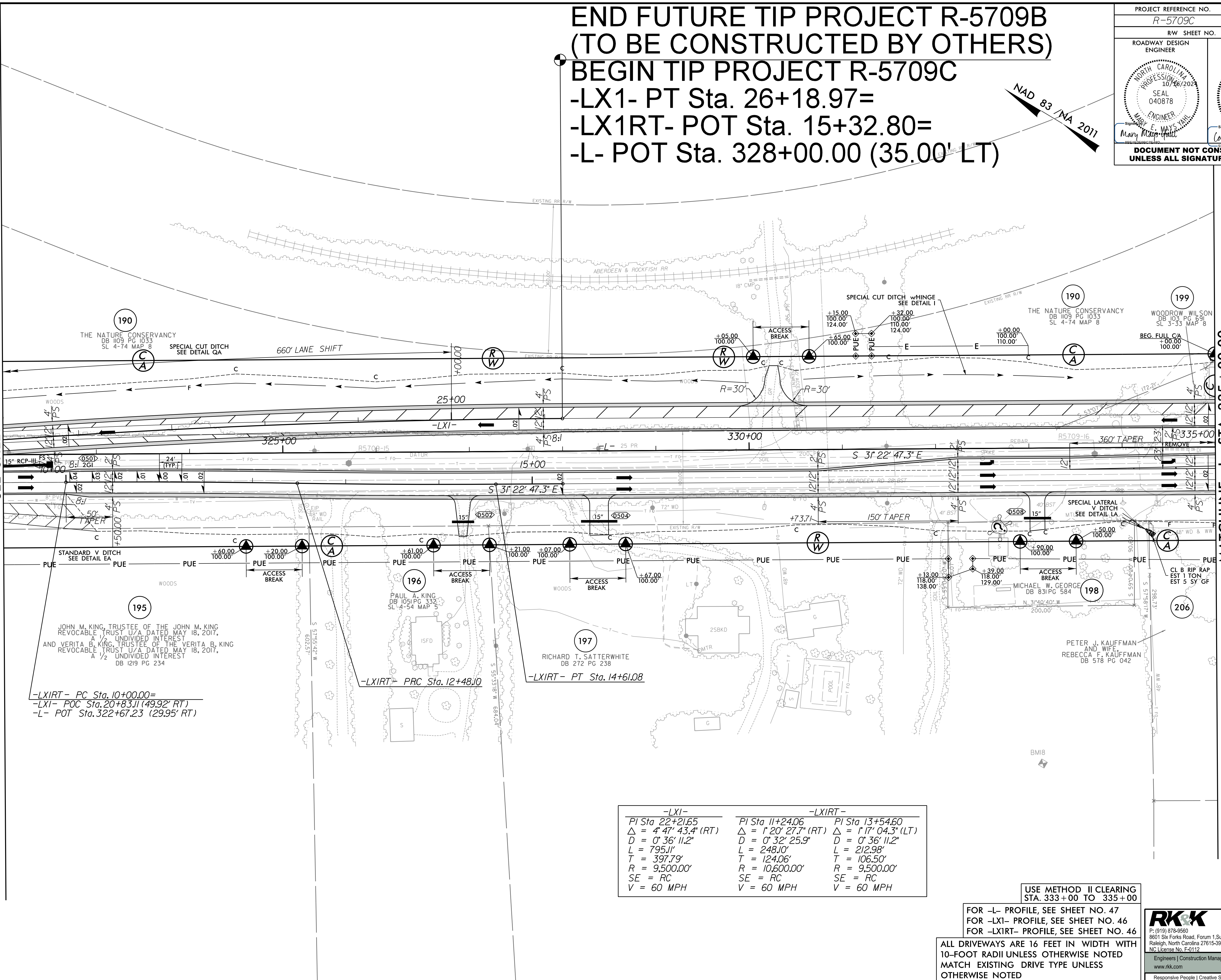
END FUTURE TIP PROJECT R-5709B (TO BE CONSTRUCTED BY OTHERS) BEGIN TIP PROJECT R-5709C

-LX1- PT Sta. 26+18.97=
-LX1RT- POT Sta. 15+32.80=
-L- POT Sta. 328+00.00 (35.00' LT)

PROJECT REFERENCE NO. R-5709C	SHEET NO. 5
RW SHEET NO. R-5709 28	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040878 Mary E. WAYS, P.E.	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 51640 Douglas A. Hoffmann, P.E.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 322 + 00.00
SEE SHEET 4

MATCHLINE -L- STA. 335 + 00.00
SEE SHEET 6



-LXIRT- PC Sta. 10+00.00=
-LX1- POC Sta. 20+83.11 (49.92' RT)
-L- POT Sta. 322+67.23 (29.95' RT)

-LXIRT- PRC Sta. 12+48.10

-LXIRT- PT Sta. 14+61.08

-LX1-		-LXIRT-	
PI Sta 22+21.65	PI Sta 11+24.06	PI Sta 13+54.60	
$\Delta = 4' 47" 43.4" (RT)$	$\Delta = 1' 20" 27.7" (RT)$	$\Delta = 1' 17" 04.3" (LT)$	
$D = 0' 36" 11.2"$	$D = 0' 32" 25.9"$	$D = 0' 36" 11.2"$	
$L = 795.11'$	$L = 248.10'$	$L = 212.98'$	
$T = 397.79'$	$T = 124.06'$	$T = 106.50'$	
$R = 9,500.00'$	$R = 10,600.00'$	$R = 9,500.00'$	
$SE = RC$	$SE = RC$	$SE = RC$	
$V = 60 MPH$	$V = 60 MPH$	$V = 60 MPH$	

USE METHOD II CLEARING
STA. 333+00 TO 335+00

FOR -L- PROFILE, SEE SHEET NO. 47
FOR -LX1- PROFILE, SEE SHEET NO. 46
FOR -LXIRT- PROFILE, SEE SHEET NO. 46

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

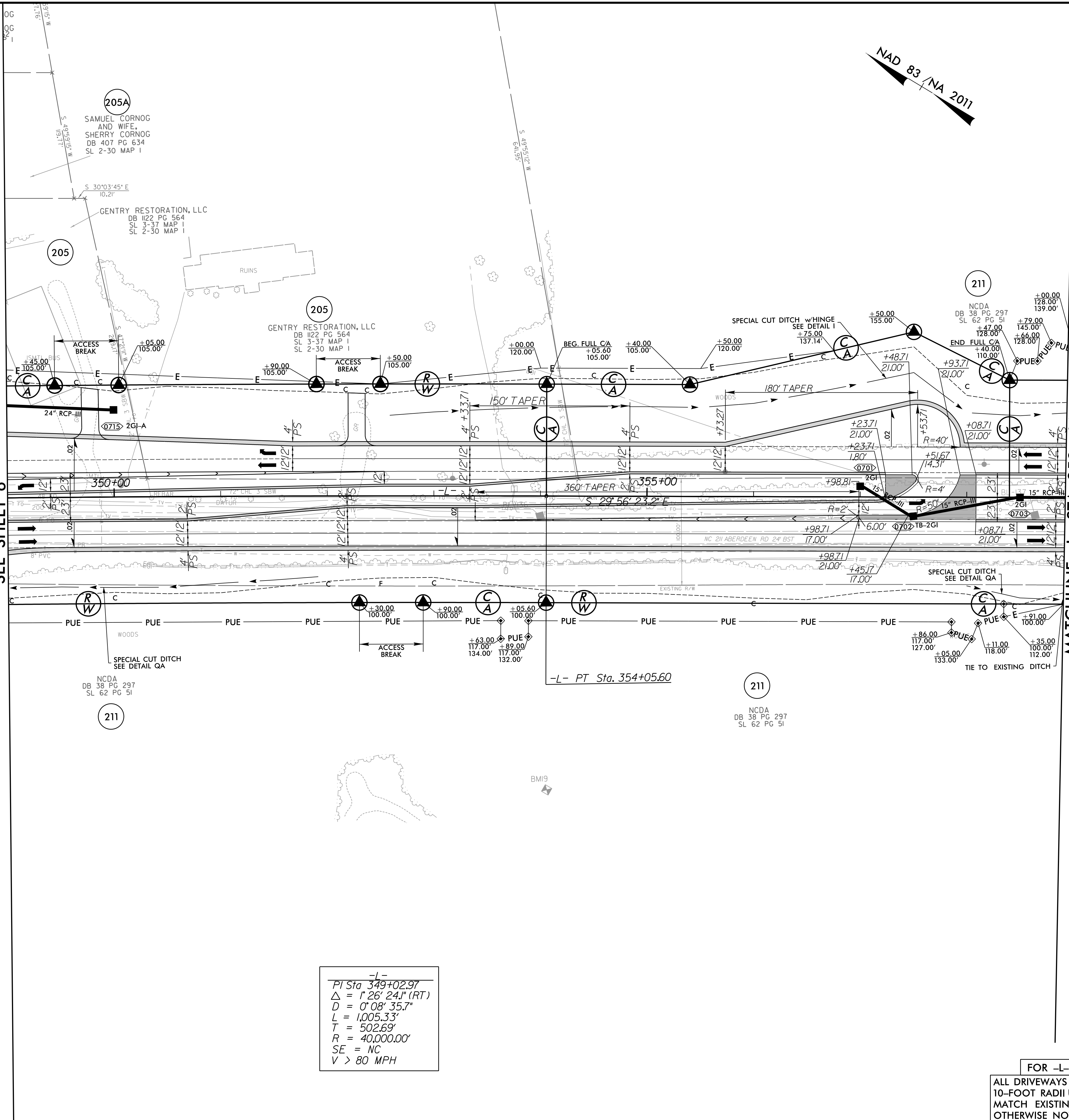
RKK
P: (919) 878-9560
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99
10/15/2024
R:\Roadwork\Proje\N5709C_Rdwy_psh05.dgn

PROJECT REFERENCE NO. R-5709C	SHEET NO. 7
RW SHEET NO. R-5709 30	
ROADWAY DESIGN ENGINEER MARK E. MAYS, P.E. SEAL 040878	HYDRAULICS ENGINEER COURTLAND A. HOFFMAN, P.E. SEAL 51640
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 349 + 00.00
SEE SHEET 6

MATCHLINE -L- STA. 359 + 00.00
SEE SHEET 8



-L-
PI Sta 349+02.97
 $\Delta = 1' 26'' 24''$ (RT)
 $D = 0' 08'' 35.7''$
 $L = 1,005.33'$
 $T = 502.69'$
 $R = 40,000.00'$
 $SE = NC$
 $V > 80$ MPH

USE METHOD II CLEARING
STA. 349 + 00 TO 359 + 00
FOR -L- PROFILE, SEE SHEET NO. 48

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RK&K
P: (919) 378-9550
6601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rk.com
Responsive People | Creative Solutions

8/17/24
R:\2024\Projects\5709C_Rdwy_psh07.dgn
10/20/24

8/17/99

PROJECT REFERENCE NO. R-5709C	SHEET NO. 8
RW SHEET NO. R-5709 31	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

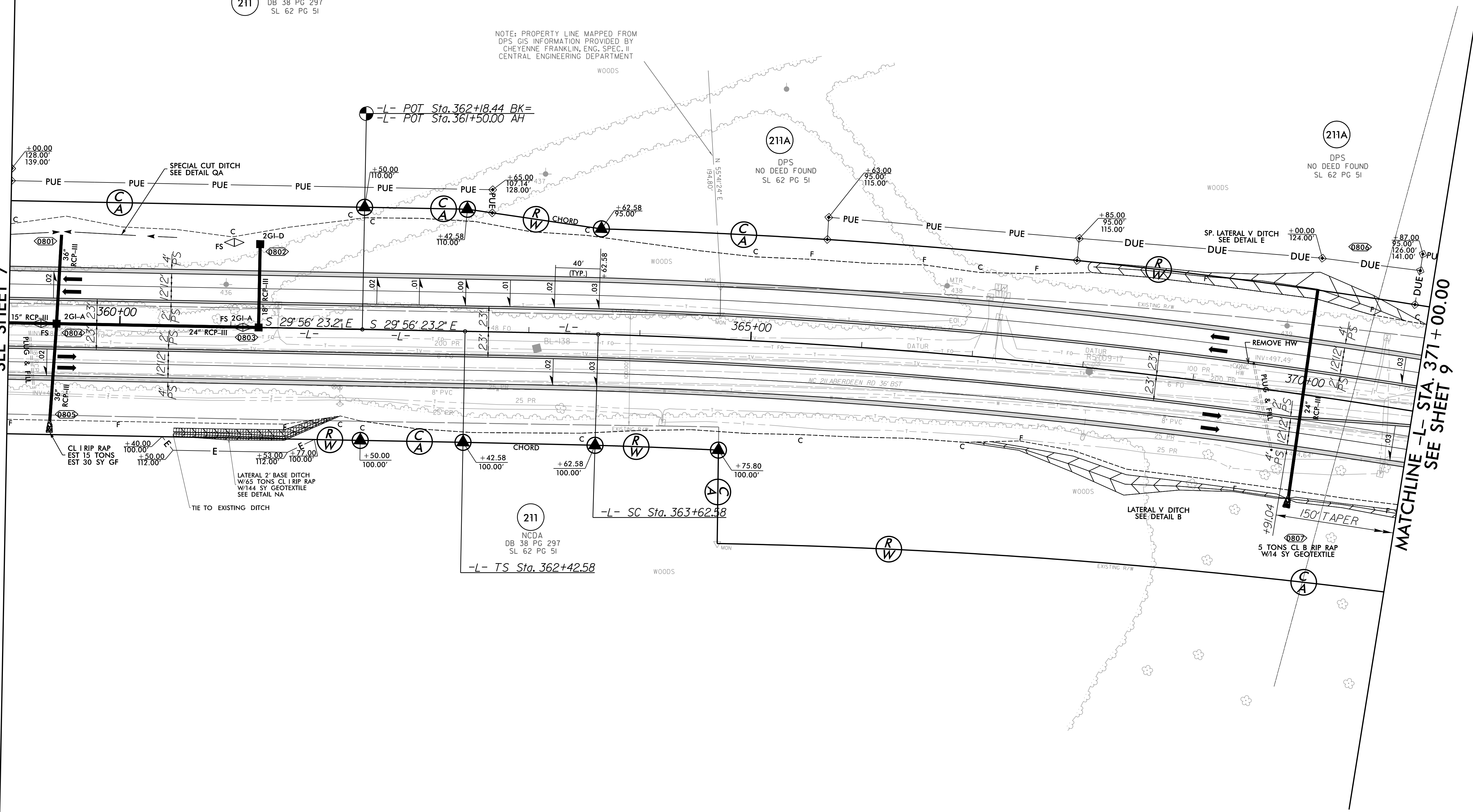
NAD 83 / NA 2011

211 NCDA DB 38 PG 297 SL 62 PG 51

NOTE: PROPERTY LINE MAPPED FROM
DPS GIS INFORMATION PROVIDED BY
CHEYENNE FRANKLIN, ENG. SPEC. II
CENTRAL ENGINEERING DEPARTMENT

MATCHLINE -L- STA. 359 + 00.00
SEE SHEET 7

MATCHLINE -L- STA. 371 + 00.00
SEE SHEET 9



-L-
 PIs Sta 363+22.58 PI Sta 373+94.34
 $\theta_s = 0^\circ 36' 11.2"$ $\Delta = 20^\circ 31' 12.3" (RT)$
 $L_s = 120.00'$ $D = 1^\circ 00' 18.7"$
 $LT = 80.00'$ $L = 2,041.41'$
 $ST = 40.00'$ $T = 1,031.76'$
 $R = 5,700.00'$
 $SE = 0.03$
 $V = 60MPH$

USE METHOD II CLEARING
STA. 359+00 TO 371+00

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-2
FOR -L- PROFILE, SEE SHEET NOS. 48-49

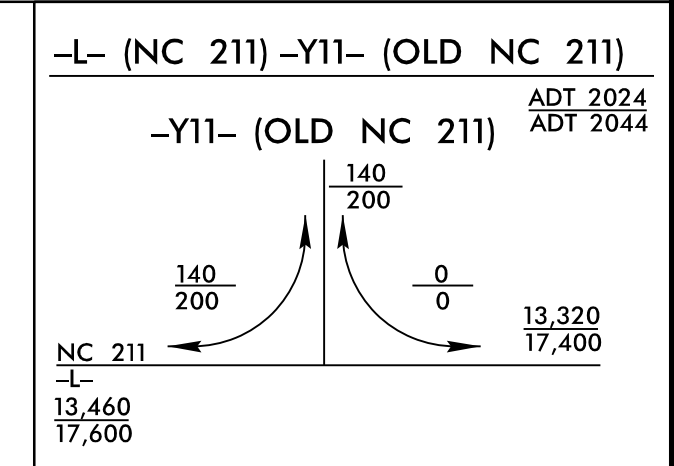
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RKK
 P: (919) 876-8560
 8801 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

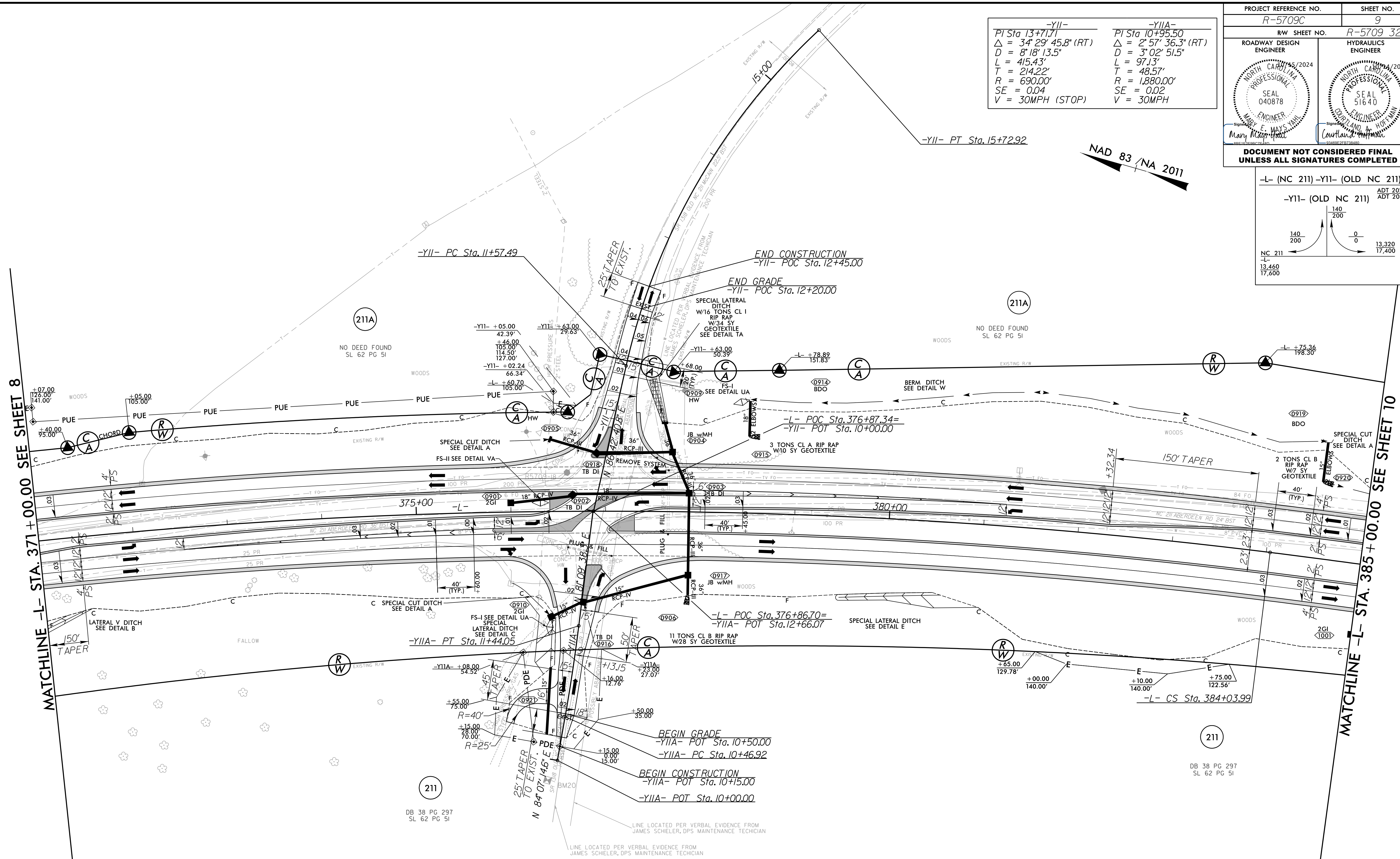
10/14/2024
R:\Roadway\Proj\N5709C_Rdy_psh08.dgn

PROJECT REFERENCE NO. R-5709C	SHEET NO. 9
RW SHEET NO. R-5709 32	
ROADWAY DESIGN ENGINEER MARY E. WAYS SEAL 040878 NORTH CAROLINA PROFESSIONAL ENGINEER 05/2024	HYDRAULICS ENGINEER COURTNEY HOFFMAN SEAL 51640 NORTH CAROLINA PROFESSIONAL ENGINEER 05/2024

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-Y11-	-Y11A-
PI Sta 13+71.71	PI Sta 10+95.50
$\Delta = 34' 29'' 45.8''$ (RT)	$\Delta = 2' 57'' 36.3''$ (RT)
$D = 8' 18'' 13.5''$	$D = 3' 02'' 51.5''$
$L = 415.43'$	$L = 97.13'$
$T = 214.22'$	$T = 48.57'$
$R = 690.00'$	$R = 1,880.00'$
$SE = 0.04$	$SE = 0.02$
$V = 30MPH$ (STOP)	$V = 30MPH$



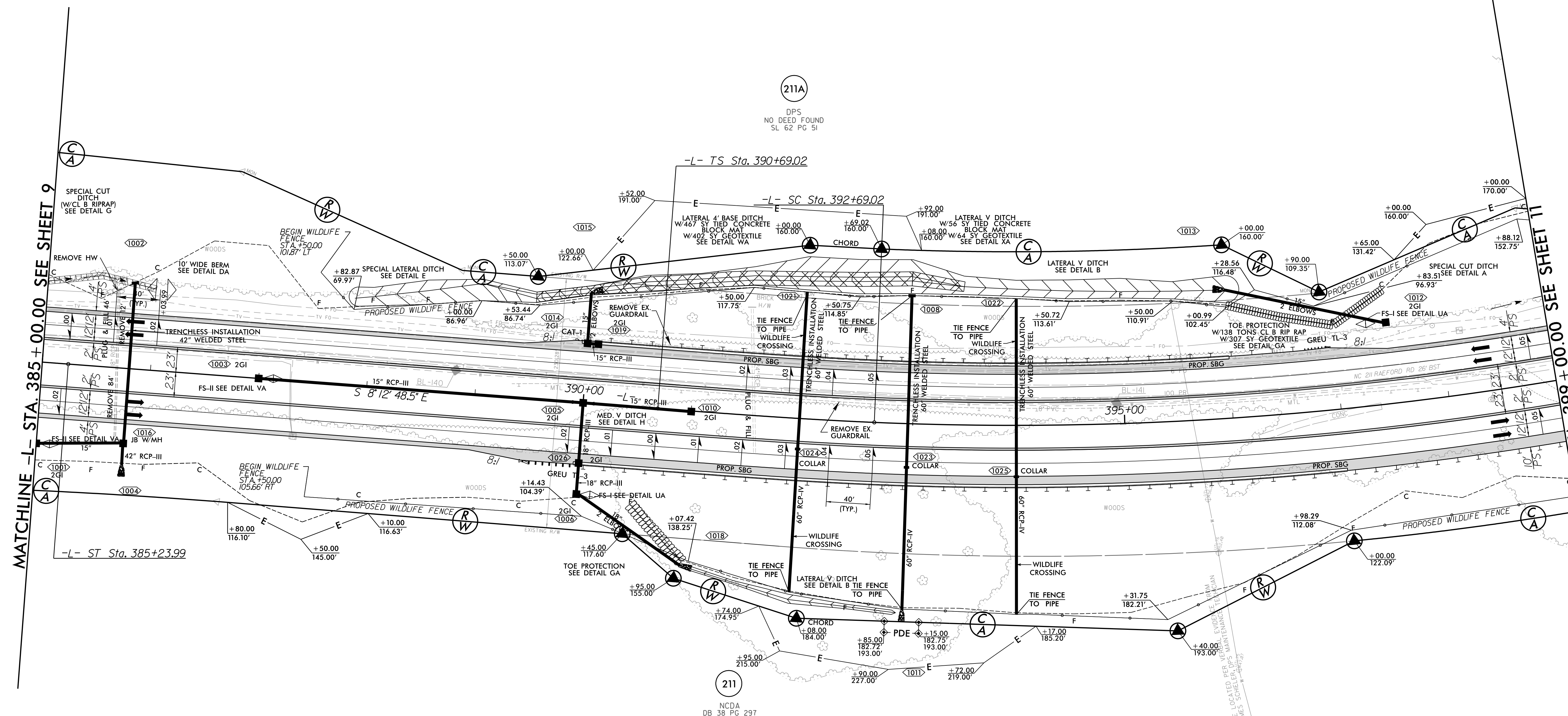
-L-	-L-
PI Sta 373+94.34	PI Sta 384+43.99
$\Delta = 20' 31'' 12.3''$ (RT)	$\Delta_s = 0' 36'' 11.2''$
$D = 1' 00'' 18.7''$	$L_s = 120.00'$
$L = 2,041.41'$	$L_T = 80.00'$
$T = 1,031.76'$	$ST = 40.00'$
$R = 5,700.00'$	
$SE = 0.03$	
$V = 60MPH$	

FOR -L- PROFILE, SEE SHEET NO. 49
 FOR -Y11- PROFILE, SEE SHEET NO. 66
 FOR -Y11A- PROFILE, SEE SHEET NO. 66
 FOR -Y11- & -Y11A- DETAILS, SEE SHEET 2B-6
 ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

USE METHOD II CLEARING STA. 371+00 TO 385+00 FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

RK&K
 P: (919) 878-9560
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3860
 NC License No. F-2112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

NAD 83 / NA 2011



MATCHLINE -L- STA. 385+00.00 SEE SHEET 9

MATCHLINE -L- STA. 399+00.00 SEE SHEET 11

DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	389+95.00	396+00.00	LT
SBG	-L-	389+95.00	397+00.00	RT

-L-

Pls Sta 384+43.99	Pls Sta 392+02.36	Pl Sta 400+22.13
$\theta_s = 0^\circ 36' 11.2''$	$\theta_s = 1^\circ 53' 05.0''$	$\Delta = 27^\circ 49' 39.9''$ (LT)
$L_s = 120.00'$	$L_s = 200.00'$	$D = 1^\circ 53' 05.0''$
$LT = 80.00'$	$LT = 133.34'$	$L = 1,476.49'$
$ST = 40.00'$	$ST = 66.67'$	$T = 753.11'$
		$R = 3,040.00'$
		$SE = 0.05$
		$V = 60MPH$

USE METHOD II CLEARING
STA. 385+00 TO 399+00

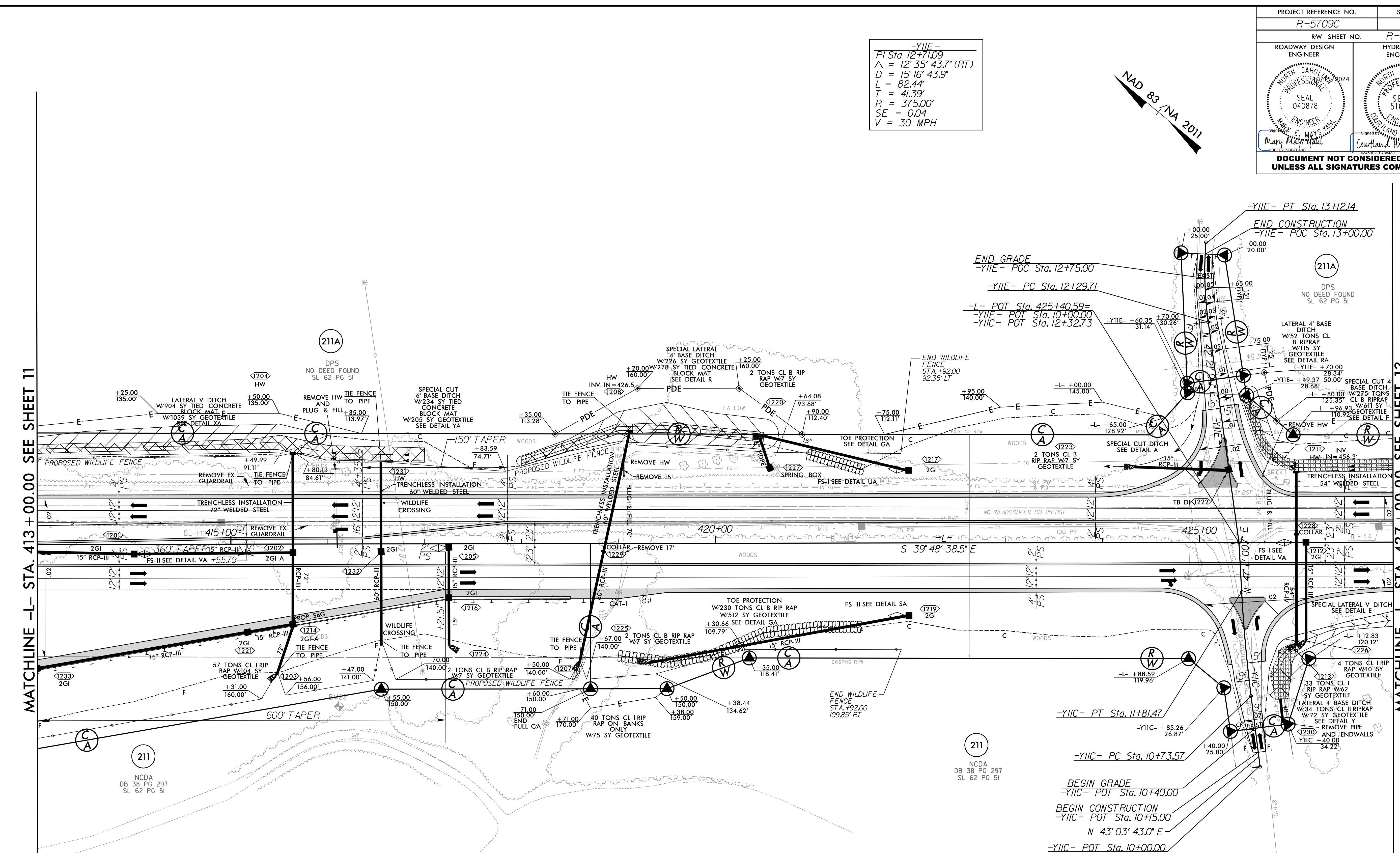
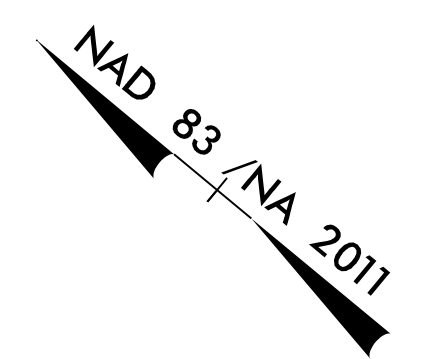
FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NOS. 49-50
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RKK
P: (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3990
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/24
R:\2024\Projects\Projects\5709C_Rdwy_psh10.dgn
10/20/2024 10:00:00 AM

-Y11F-
 PI Sta 12+71.09
 $\Delta = 12' 35" 43.7" (RT)$
 $D = 15' 16" 43.9"$
 $L = 82.44'$
 $T = 41.39'$
 $R = 375.00'$
 $SE = 0.04$
 $V = 30 \text{ MPH}$



MATCHLINE -L- STA. 413 + 00.00 SEE SHEET 11

MATCHLINE -L- STA. 427 + 00.00 SEE SHEET 13

DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	413+00.00	418+50.54	RT

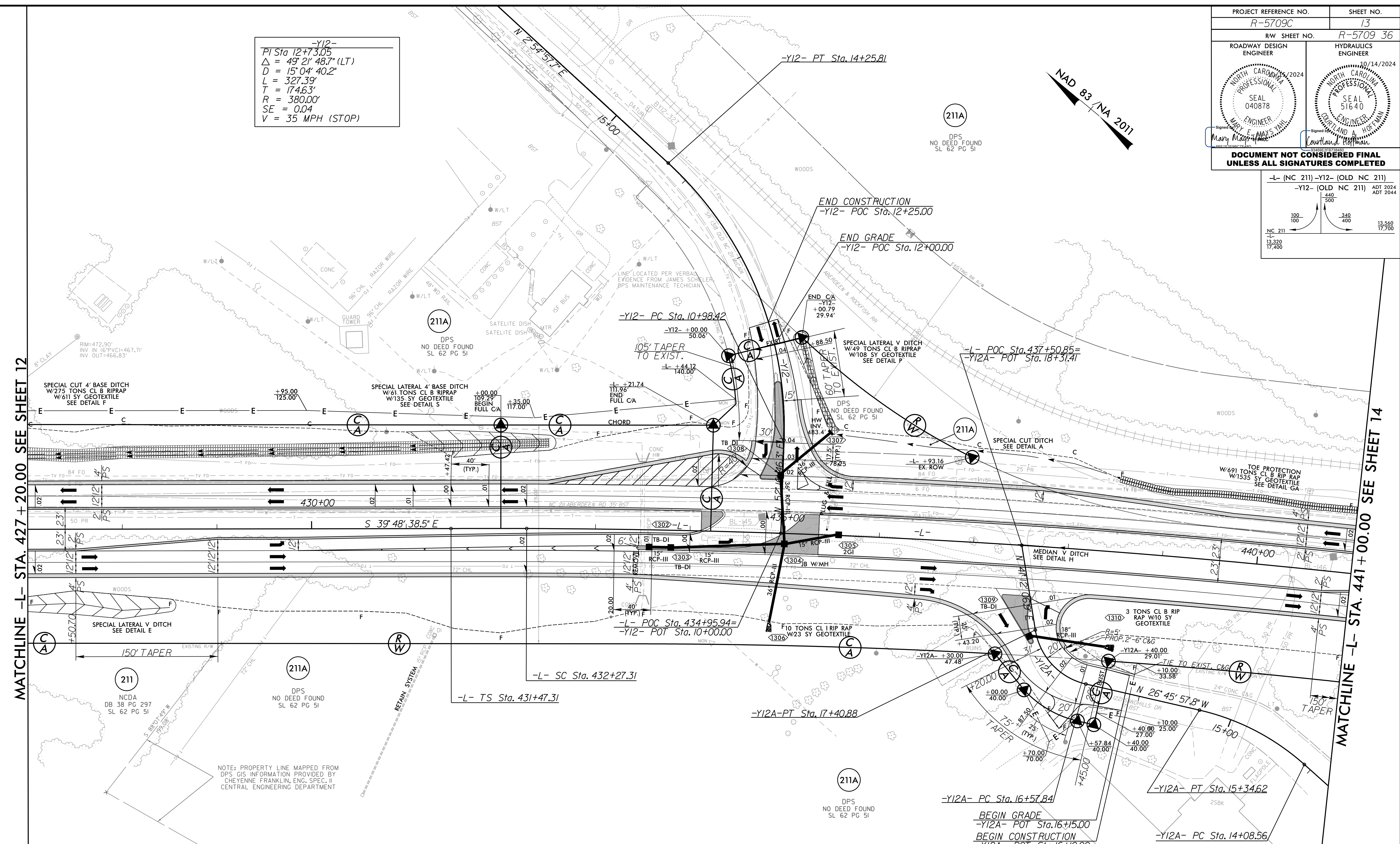
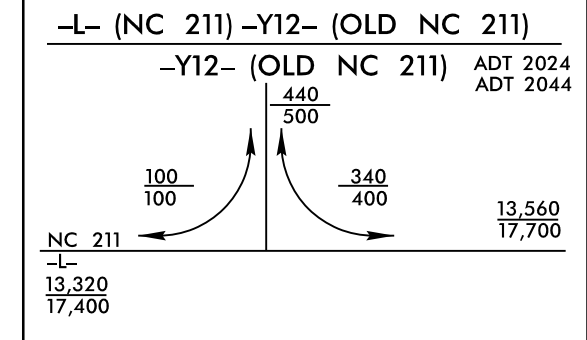
-Y11C-
 PI Sta 11+27.54
 $\Delta = 4' 07" 17.7" (RT)$
 $D = 3' 49" 11.0"$
 $L = 107.90'$
 $T = 53.97'$
 $R = 1,500.00'$
 $SE = NC$
 $V = 30 \text{ MPH}$

FOR DITCH DETAILS,
 SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NOS. 50-51
 FOR -Y11C- PROFILE, SEE SHEET NO. 67
 FOR -Y11E- PROFILE, SEE SHEET NO. 67
 FOR -Y11C- AND -Y11E- DETAILS,
 SEE SHEET 2B-6B

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS
 OTHERWISE NOTED

8/17/24
 R:\2024\Projects\11\11-01\11-01-R5709C-Rdwy-psh12.dgn
 11-01-2024



DESCRIPTION	ALN	STATION	STATION	LOC
2'-6"C+G	-Y12A-	16+50.00	16+98.99	RT

-L-		-Y12A-	
PIs Sta 432+00.64	PI Sta 436+65.95	PI Sta 14+72.96	PI Sta 17+05.03
$\Theta_s = 0' 16' 15.2''$	$\Delta = 5' 56' 10.0''$ (RT)	$\Delta = 28' 53' 20.5''$ (LT)	$\Delta = 67' 58' 04.7''$ (RT)
$L_s = 80.00'$	$D = 0' 40' 38.1''$	$D = 22' 55' 05.9''$	$D = 81' 51' 04.0''$
$L_t = 53.33'$	$T = 876.50'$	$L = 126.05'$	$L = 83.04'$
$ST = 26.67'$	$T = 438.64'$	$T = 64.40'$	$T = 47.19'$
	$R = 8,460.00'$	$R = 250.00'$	$R = 70.00'$
	$SE = RC$		$SE = 0.02$
	$V = 60$ MPH		$V = <15$ MPH (STOP)

USE METHOD II CLEARING
 STA. 433+00 TO 441+00
 FOR DITCH DETAILS,
 SEE SHEETS 2D-1 THRU 2D-3

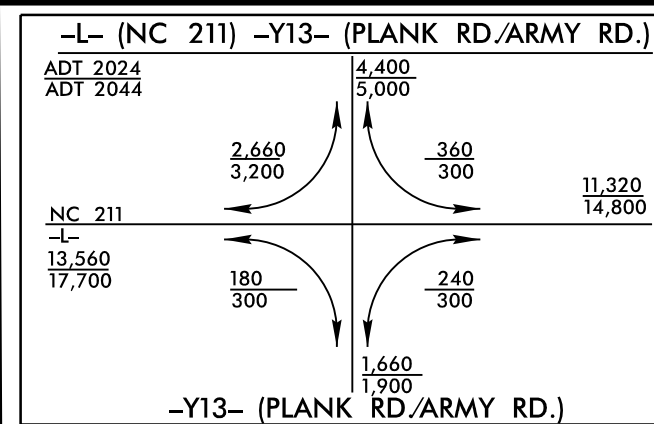
FOR -L- PROFILE, SEE SHEET NO. 51
 FOR -Y12- PROFILE, SEE SHEET NO. 68
 FOR -Y12A- PROFILE, SEE SHEET NO. 68
 FOR -Y12- & -Y12A- DETAILS, SEE SHEET 2B-7
 ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS
 OTHERWISE NOTED

8/17/2024

R:\2024\Projects\15709C_Rdwy_psh13.dgn
 13/08/2024 10:08:44 AM

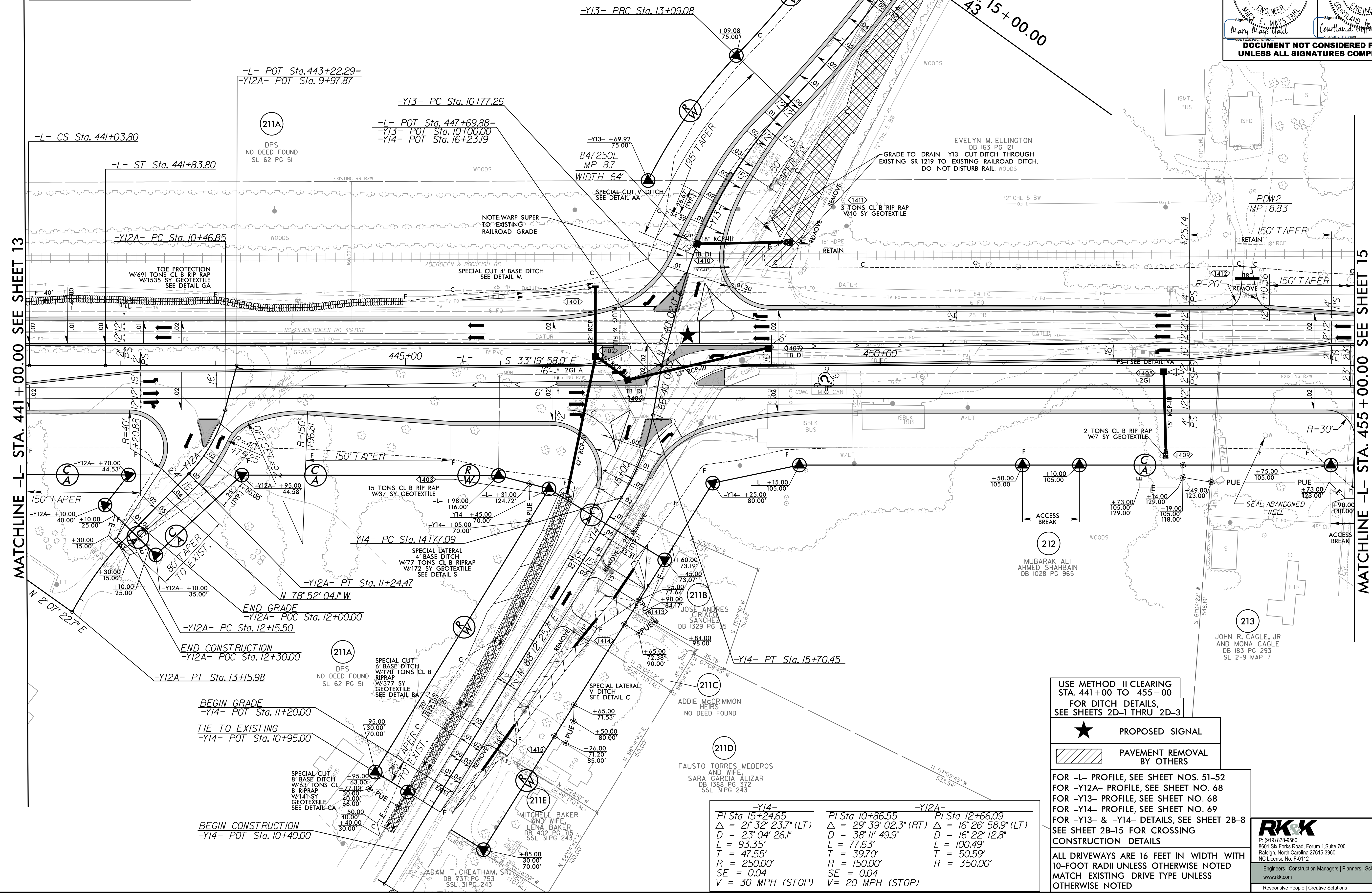
8/17/24

8/13/2024 R:\Projects\15709C_Rd14_psh14.dgn



-L- (NC 211) -Y13- (PLANK RD/ARMY RD.)	-L- POT Sta. 436+65.95	PIs Sta. 441+30.47	PI Sta. 11+95.69	-Y13- PI Sta. 15+98.84
$\Delta = 5' 56'' 10.0''$ (RT)	$\Delta = 5' 56'' 10.0''$ (RT)	$\Delta = 0' 16'' 15.2''$	$\Delta = 28' 52'' 26.2''$ (RT)	$\Delta = 24' 34'' 53.4''$ (LT)
$D = 0' 40'' 38.1''$	$D = 0' 40'' 38.1''$	$D = 80.00'$	$D = 12' 27'' 20.2''$	$D = 4' 18'' 28.6''$
$L = 876.50'$	$L = 876.50'$	$L = 53.33'$	$L = 231.8'$	$L = 570.6'$
$T = 438.64'$	$T = 438.64'$	$T = 53.33'$	$T = 118.42'$	$T = 289.76'$
$R = 8,460.00'$	$R = 8,460.00'$	$R = 460.00'$	$R = 460.00'$	$R = 1,330.00'$
$SE = RC$	$SE = RC$	$SE = 0.03$	$SE = 0.03$	$SE = 0.06$
$V = 60\text{MPH}$	$V = 60\text{MPH}$	$ST = 26.67'$	$V = 15\text{ MPH (STOP)}$	$V = 60\text{ MPH}$

PROJECT REFERENCE NO. R-5709C	SHEET NO. 14
RW SHEET NO. R-5709 37	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 040878
MARY E. MAYS	SEAL 51640
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



USE METHOD II CLEARING STA. 441+00 TO 455+00
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

★ PROPOSED SIGNAL

PAVEMENT REMOVAL BY OTHERS

FOR -L- PROFILE, SEE SHEET NOS. 51-52
FOR -Y12A- PROFILE, SEE SHEET NO. 68
FOR -Y13- PROFILE, SEE SHEET NO. 68
FOR -Y14- PROFILE, SEE SHEET NO. 69
FOR -Y13- & -Y14- DETAILS, SEE SHEET 2B-8
SEE SHEET 2B-15 FOR CROSSING CONSTRUCTION DETAILS

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

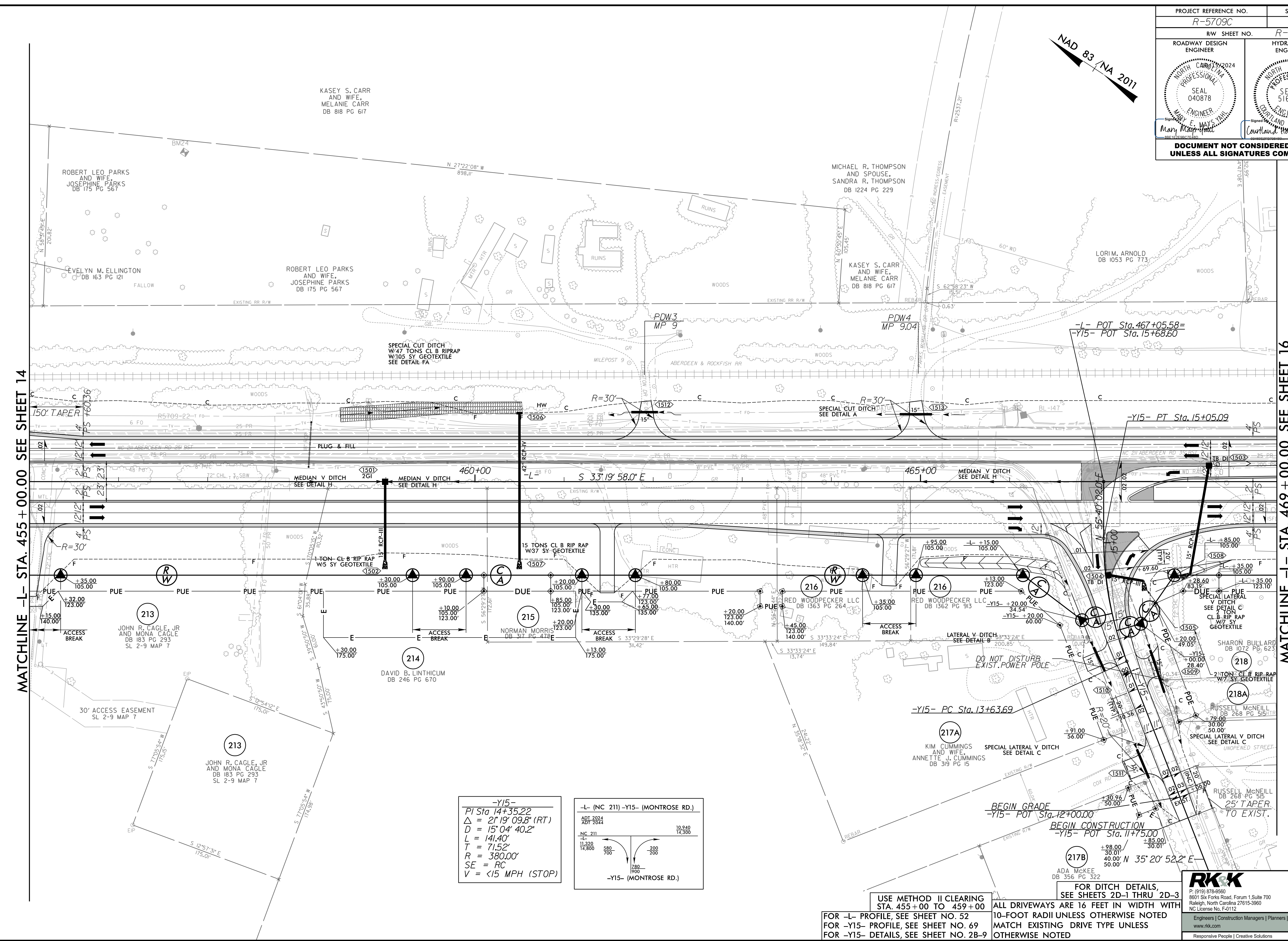
-Y14-	PI Sta. 10+86.55	-Y12A-	PI Sta. 12+66.09
$\Delta = 21' 32'' 23.7''$ (LT)	$\Delta = 29' 39'' 02.3''$ (RT)	$\Delta = 16' 26'' 58.9''$ (LT)	
$D = 23' 04'' 26.1''$	$D = 38' 11'' 49.9''$	$D = 16' 22'' 12.8''$	
$L = 93.35'$	$L = 77.63'$	$L = 100.49'$	
$T = 47.55'$	$T = 39.70'$	$T = 50.59'$	
$R = 250.00'$	$R = 150.00'$	$R = 350.00'$	
$SE = 0.04$	$SE = 0.04$		
$V = 30\text{ MPH (STOP)}$	$V = 20\text{ MPH (STOP)}$		

RKK
P: (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

PROJECT REFERENCE NO. R-5709C	SHEET NO. 15
RW SHEET NO. R-5709 38	
ROADWAY DESIGN ENGINEER MARY E. WAYS SEAL 040878 NORTH CAROLINA PROFESSIONAL ENGINEER	HYDRAULICS ENGINEER COURTLAND R. HOFFMAN SEAL 51640 NORTH CAROLINA PROFESSIONAL ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

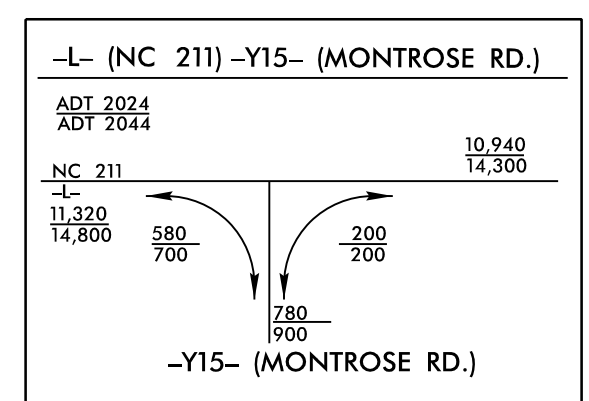
NAD 83 / NA 2011



MATCHLINE -L- STA. 455 + 00.00 SEE SHEET 14

MATCHLINE -L- STA. 469 + 00.00 SEE SHEET 16

-Y15-
 PI Sta 14+35.22
 $\Delta = 21^{\circ}19'09.8\"$ (RT)
 $D = 15^{\circ}04'40.2\"$
 $L = 141.40'$
 $T = 71.52'$
 $R = 380.00'$
 $SE = RC$
 $V = <15$ MPH (STOP)



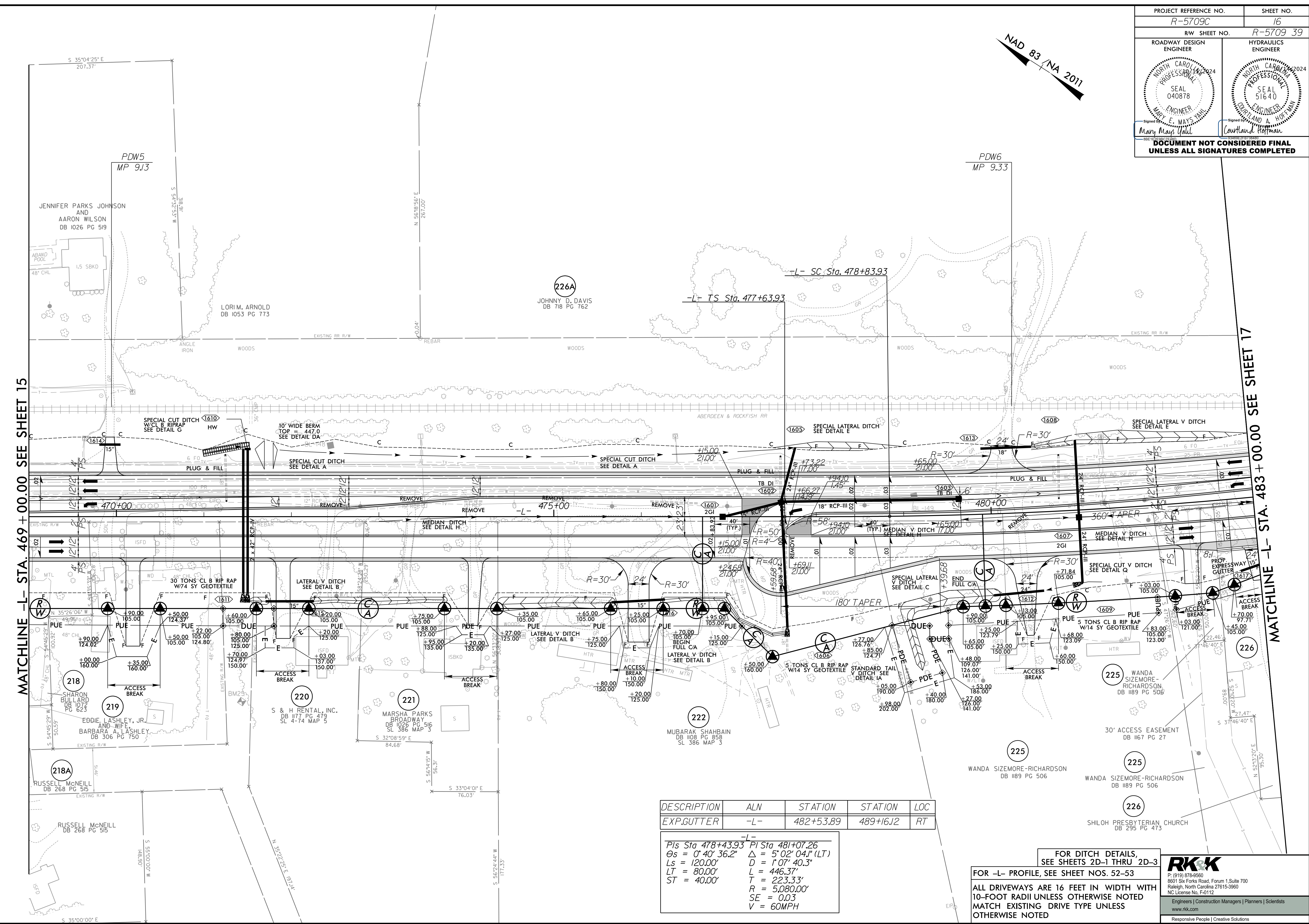
USE METHOD II CLEARING
 STA. 455+00 TO 459+00
 FOR -L- PROFILE, SEE SHEET NO. 52
 FOR -Y15- PROFILE, SEE SHEET NO. 69
 FOR -Y15- DETAILS, SEE SHEET NO. 28-9

FOR DITCH DETAILS,
 SEE SHEETS 2D-1 THRU 2D-3
 ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS
 OTHERWISE NOTED

RK&K
 P. (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rk.com
 Responsive People | Creative Solutions

8/17/2024
 R:\2024\2024 Proj\N\Proj\N\5709C_Rdwy_psh15.dgn
 M. WAYS

NAD 83 / NA 2011




DESCRIPTION	ALN	STATION	STATION	LOC
EXP.GUTTER	-L-	482+53.89	489+16.12	RT

P Sta 478+43.93 P Sta 481+07.26
 $\theta_s = 0^\circ 40' 36.2''$ $\Delta = 5^\circ 02' 04.1''$ (LT)
 $L_s = 120.00'$ $D = 1^\circ 07' 40.3''$
 $LT = 80.00'$ $L = 446.37'$
 $ST = 40.00'$ $T = 223.33'$
 $R = 5080.00'$
 $SE = 0.03$
 $V = 60MPH$

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NOS. 52-53

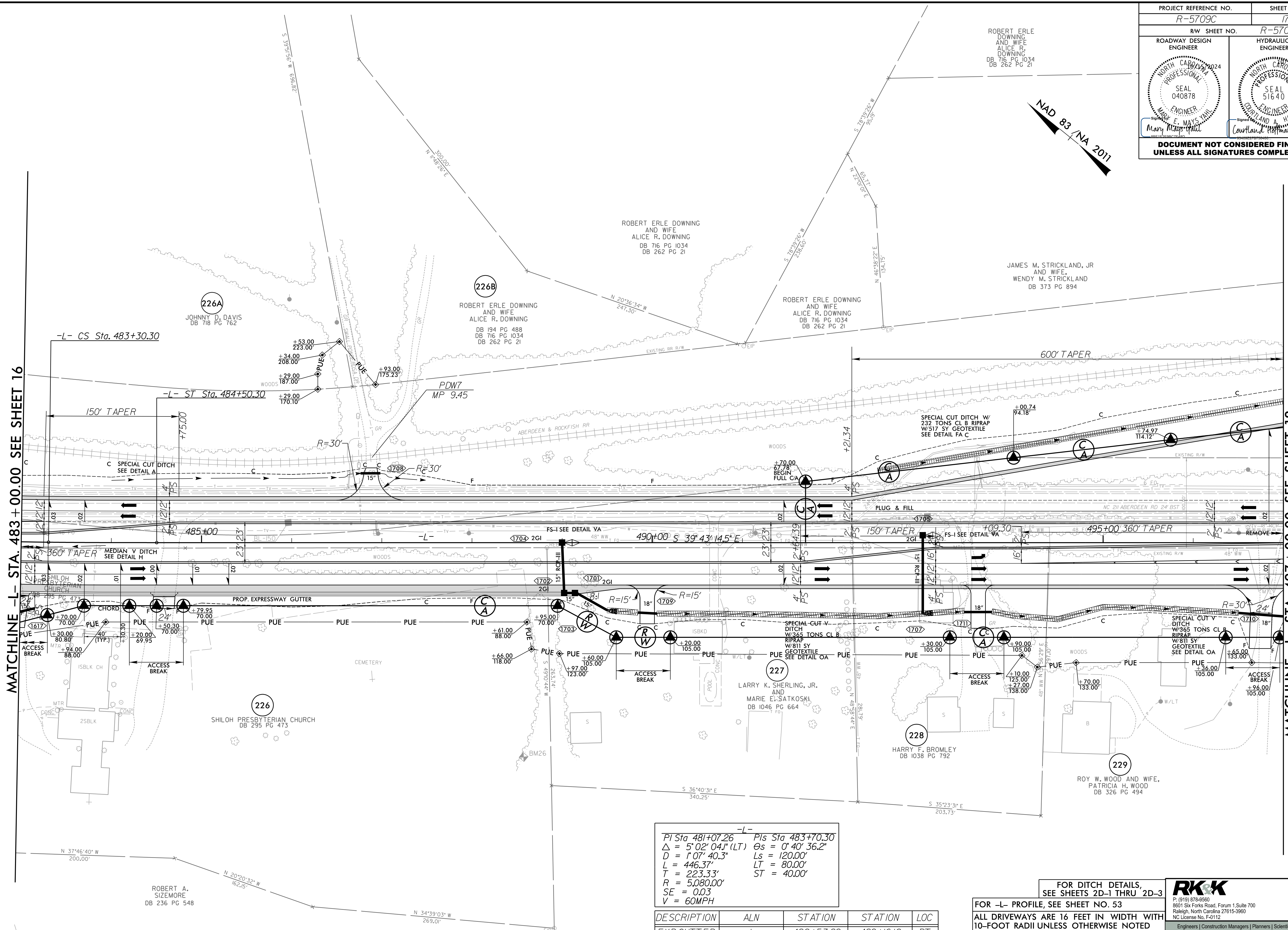
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED



P: (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rk.com
 Responsive People | Creative Solutions

8/17/2024
 R:\2024\Projects\Projects\15709C_Rdwy_Psh16.dgn
 8/17/2024

PROJECT REFERENCE NO. R-5709C	SHEET NO. 17
RW SHEET NO. R-5709 40	
ROADWAY DESIGN ENGINEER MARY E. MAYS DB 716 PG 1034 DB 262 PG 21	HYDRAULICS ENGINEER COURTLAND A. HOFFMAN DB 373 PG 894
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L-
 PI Sta 481+07.26 PIs Sta 483+70.30
 $\Delta = 5^{\circ}02'04.1''$ (LT) $\Theta_s = 0^{\circ}40'36.2''$
 $D = 1^{\circ}07'40.3''$ $L_s = 120.00'$
 $L = 446.37'$ $LT = 80.00'$
 $T = 223.33'$ $ST = 40.00'$
 $R = 5,080.00'$
 $SE = 0.03$
 $V = 60MPH$

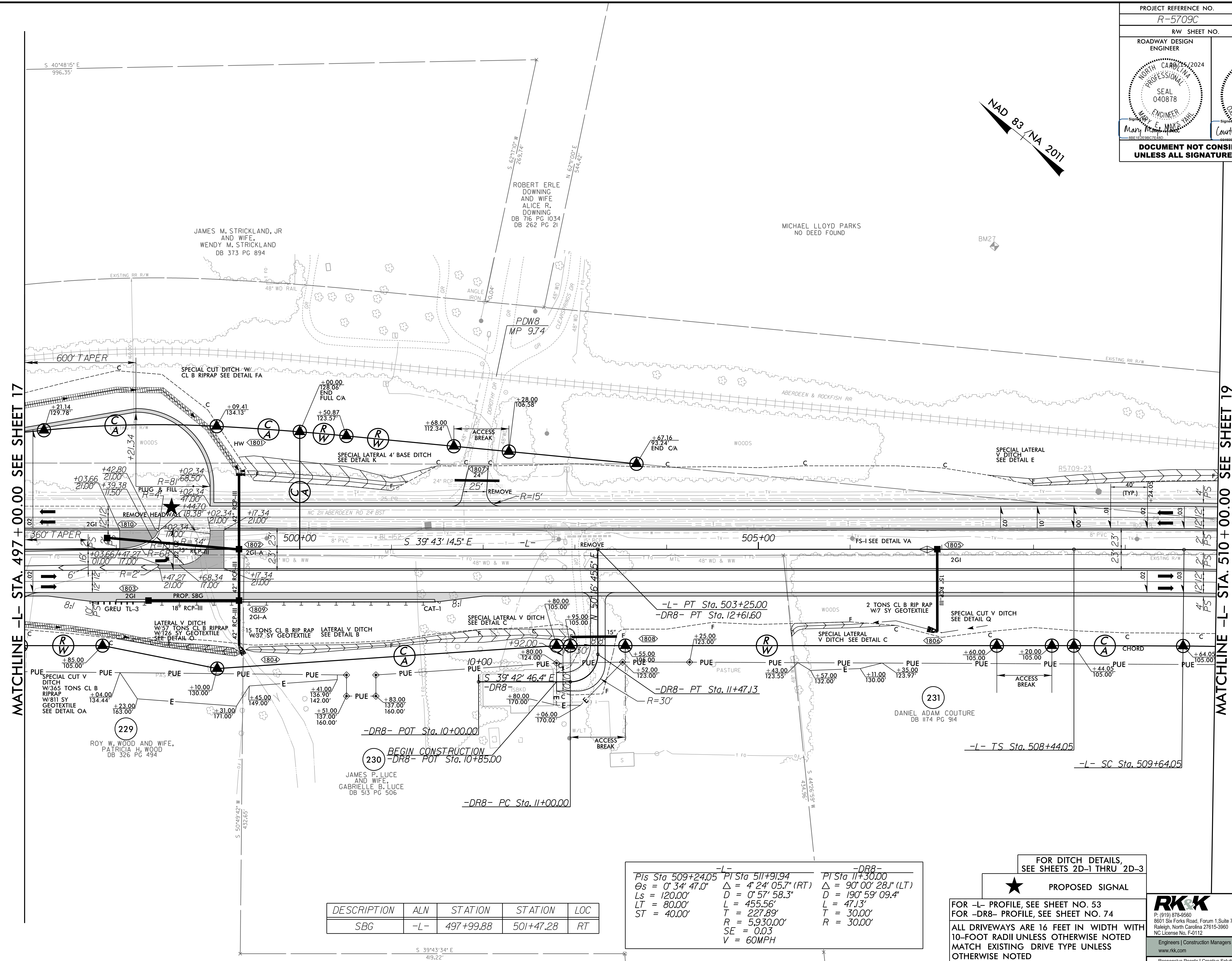
DESCRIPTION	ALN	STATION	STATION	LOC
EXP.GUTTER	-L-	482+53.89	489+16.12	RT

FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
 FOR -L- PROFILE, SEE SHEET NO. 53
 ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

RKK
 P: (919) 978-9990
 8601 Six Forks Road, Fourth Floor, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8/17/2024 R:\2024\Projects\5709C-Rdwy\psh17.dgn

NAD 83 / NA 2011



MATCHLINE -L- STA. 497 + 00.00 SEE SHEET 17

MATCHLINE -L- STA. 510 + 00.00 SEE SHEET 19

DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	497+99.88	501+47.28	RT

-L-		-DR8-	
PI Sta 509+24.05	PT Sta 511+91.94	PI Sta 11+30.00	
$\theta_s = 0^\circ 34' 47.0''$	$\Delta = 4^\circ 24' 05.7''$ (RT)	$\Delta = 90^\circ 00' 28.1''$ (LT)	
$L_s = 120.00'$	$D = 0^\circ 57' 58.3''$	$D = 190^\circ 59' 09.4''$	
$LT = 80.00'$	$L = 455.56'$	$L = 47.13'$	
$ST = 40.00'$	$T = 227.89'$	$T = 30.00'$	
	$R = 5,930.00'$	$R = 30.00'$	
	$SE = 0.03$		
	$V = 60MPH$		

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3

★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET NO. 53
FOR -DR8- PROFILE, SEE SHEET NO. 74

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RKK

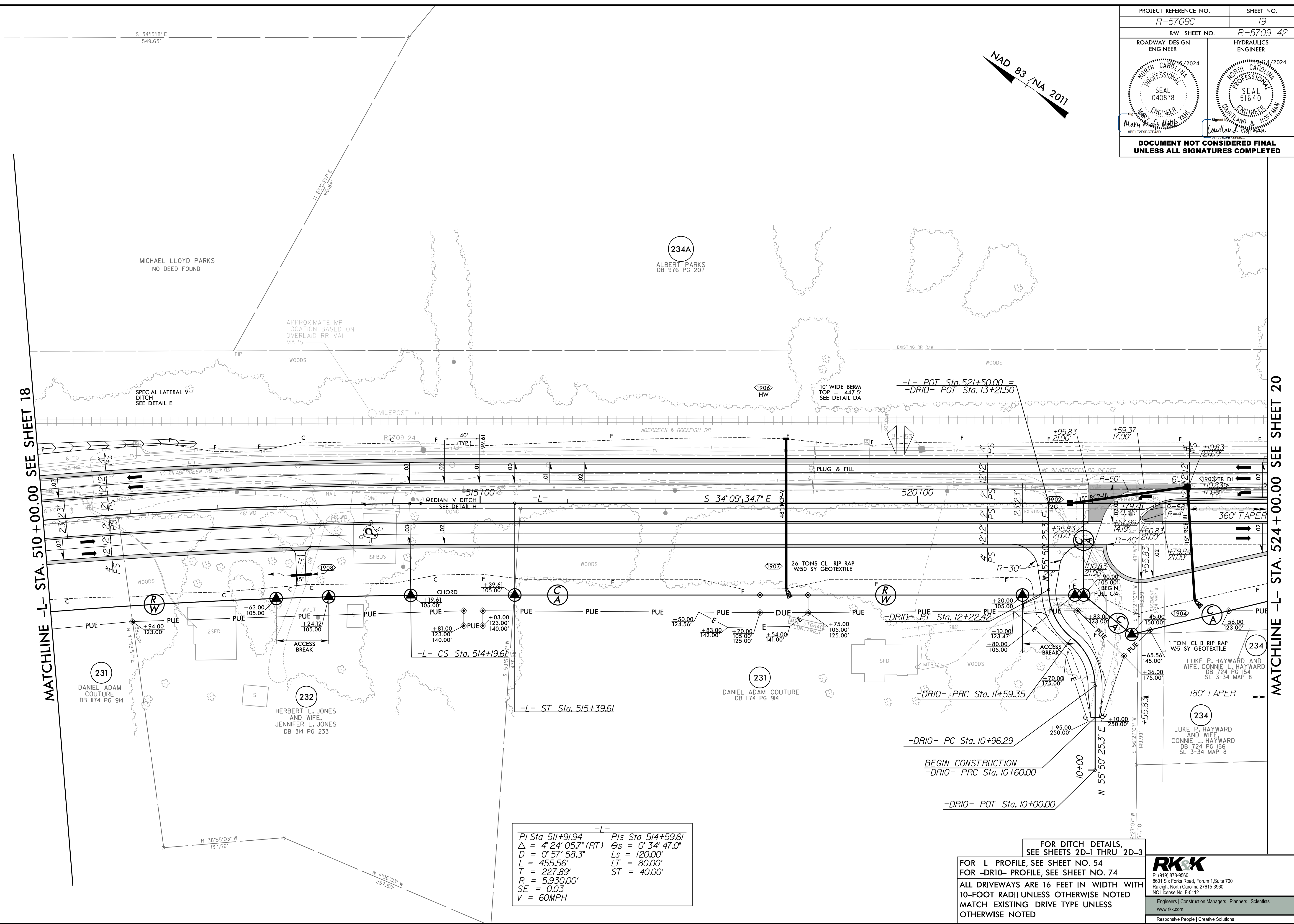
P. (919) 978-9990
8601 Six Forks Road, Forum 1 Suite 700
Raleigh, North Carolina 27615-3990
NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/19

R:\2024\Projects\195709C_Rdwy_psh18.dgn
12/15/2024
12:00:00

NAD 83 (NA 2011)



MATCHLINE -L- STA. 510 + 00.00 SEE SHEET 18

MATCHLINE -L- STA. 524 + 00.00 SEE SHEET 20

PI Sta 511+91.94	-L-	PIs Sta 514+59.61
$\Delta = 4' 24' 05.7''$ (RT)		$\theta_s = 0' 34' 47.0''$
$D = 0' 57' 58.3''$		$Ls = 120.00'$
$L = 455.56'$		$LT = 80.00'$
$T = 227.89'$		$ST = 40.00'$
$R = 5930.00'$		
$SE = 0.03$		
$V = 60MPH$		

FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NO. 54

FOR -DRIO- PROFILE, SEE SHEET NO. 74

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED

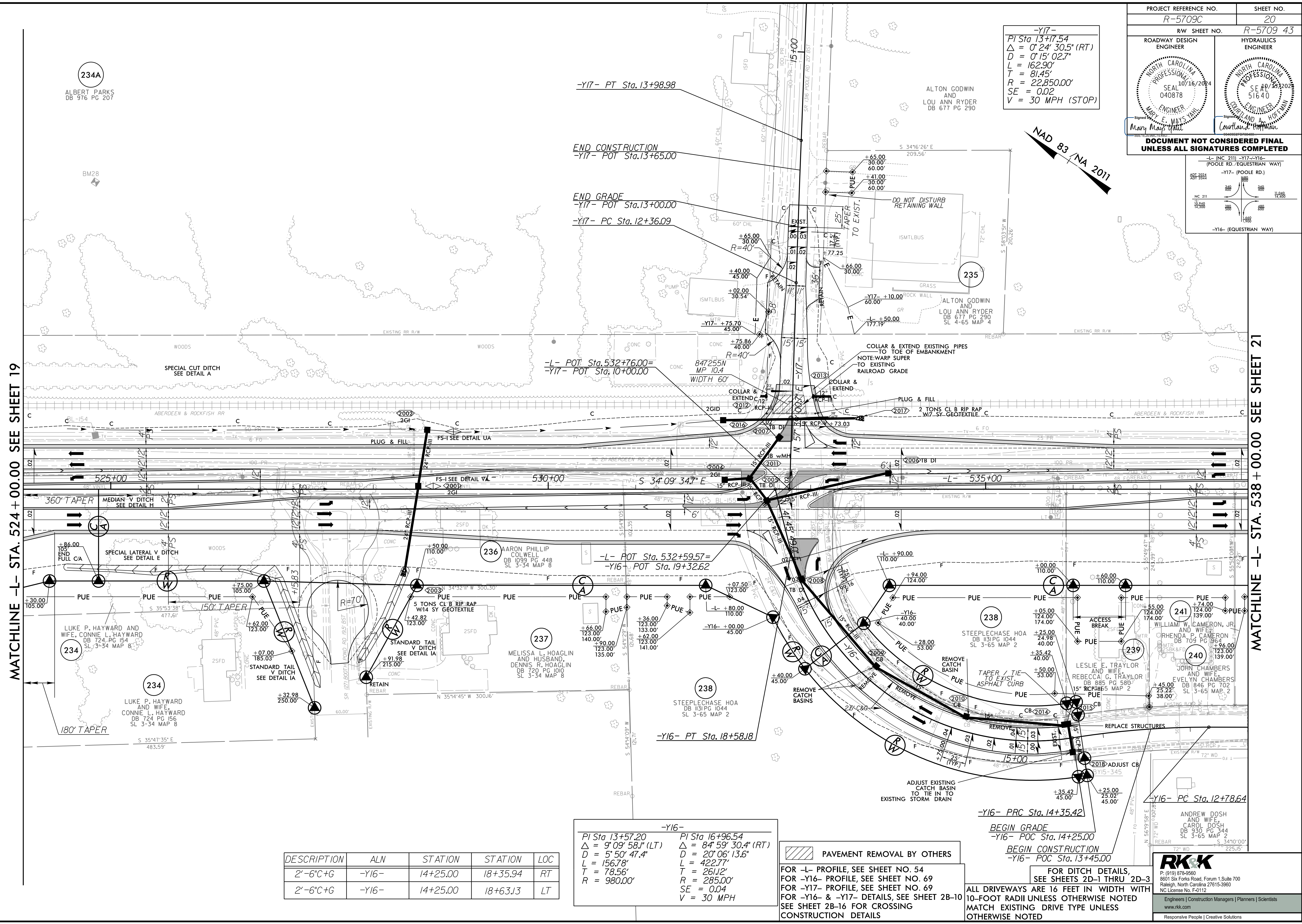
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

RKK
 P. (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8/17/2024
 R:\2024\Projects\Proj\5709C_Rdwy_Psh19.dgn
 8/17/2024

-Y17-
 PI Sta 13+17.54
 $\Delta = 0' 24' 30.5" (RT)$
 $D = 0' 15' 02.7"$
 $L = 162.90'$
 $T = 81.45'$
 $R = 22,850.00'$
 $SE = 0.02$
 $V = 30 \text{ MPH (STOP)}$



MATCHLINE -L- STA. 524 + 00.00 SEE SHEET 19

MATCHLINE -L- STA. 538 + 00.00 SEE SHEET 21

-Y16-
 PI Sta 13+57.20 $\Delta = 9' 09' 58.1" (LT)$
 $D = 5' 50' 47.4"$
 $L = 156.78'$
 $T = 78.56'$
 $R = 980.00'$

-Y16-
 PI Sta 16+96.54 $\Delta = 84' 59' 30.4" (RT)$
 $D = 20' 06' 13.6"$
 $L = 422.77'$
 $T = 261.12'$
 $R = 285.00'$
 $SE = 0.04$
 $V = 30 \text{ MPH}$

DESCRIPTION	ALN	STATION	STATION	LOC
2'-6"C+G	-Y16-	14+25.00	18+35.94	RT
2'-6"C+G	-Y16-	14+25.00	18+63.13	LT

PAVEMENT REMOVAL BY OTHERS

FOR -L- PROFILE, SEE SHEET NO. 54
 FOR -Y16- PROFILE, SEE SHEET NO. 69
 FOR -Y17- PROFILE, SEE SHEET NO. 69
 FOR -Y16- & -Y17- DETAILS, SEE SHEET 2B-10
 SEE SHEET 2B-16 FOR CROSSING
 CONSTRUCTION DETAILS

BEGIN GRADE
 -Y16- POC Sta. 14+25.00

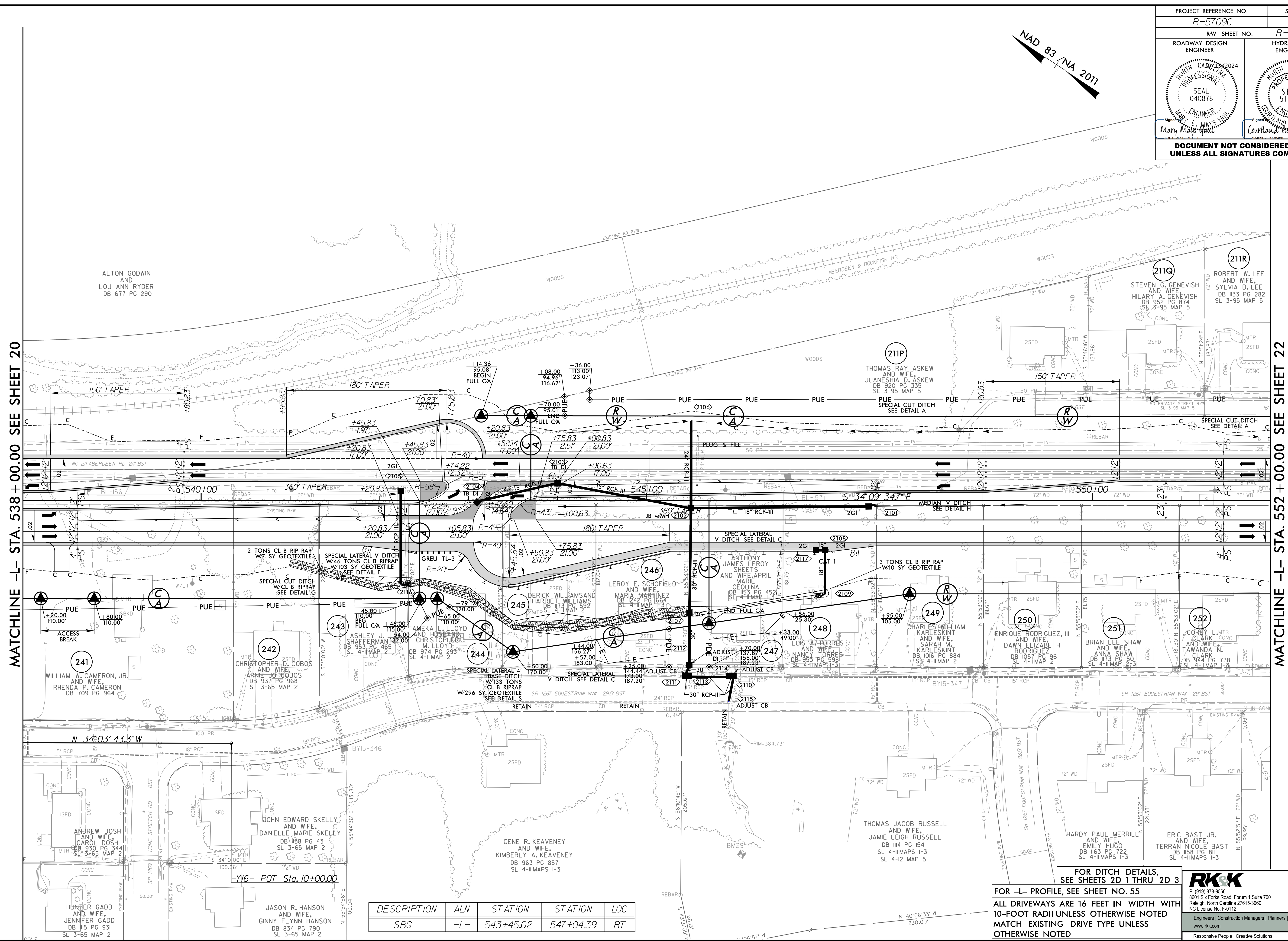
BEGIN CONSTRUCTION
 -Y16- POC Sta. 13+45.00

FOR DITCH DETAILS,
 SEE SHEETS 2D-1 THRU 2D-3

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS
 OTHERWISE NOTED

10/15/2024 R:\Roadway\N5709C_Rdy_psh20.dgn

NAD 83 / NA 2011



MATCHLINE -L- STA. 538 + 00.00 SEE SHEET 20

MATCHLINE -L- STA. 552 + 00.00 SEE SHEET 22

DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	543+45.02	547+04.39	RT

FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NO. 55

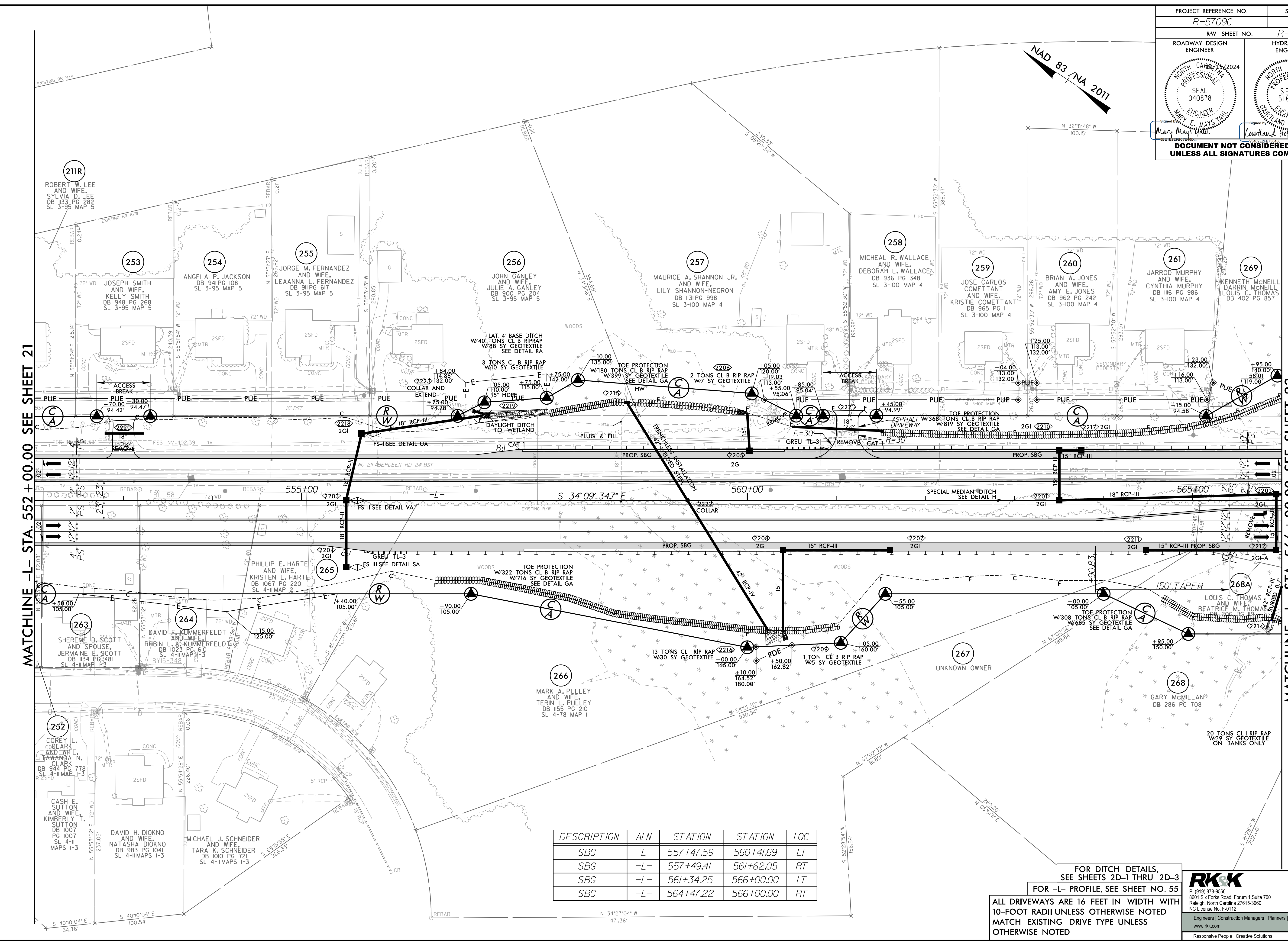
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED

MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

R. (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/2024
R:\3672024\Projects\Proj\AR5709C_Rdy_psh21.dgn



MATCHLINE -L- STA. 552 + 00.00 SEE SHEET 21

MATCHLINE -L- STA. 566 + 00.00 SEE SHEET 23

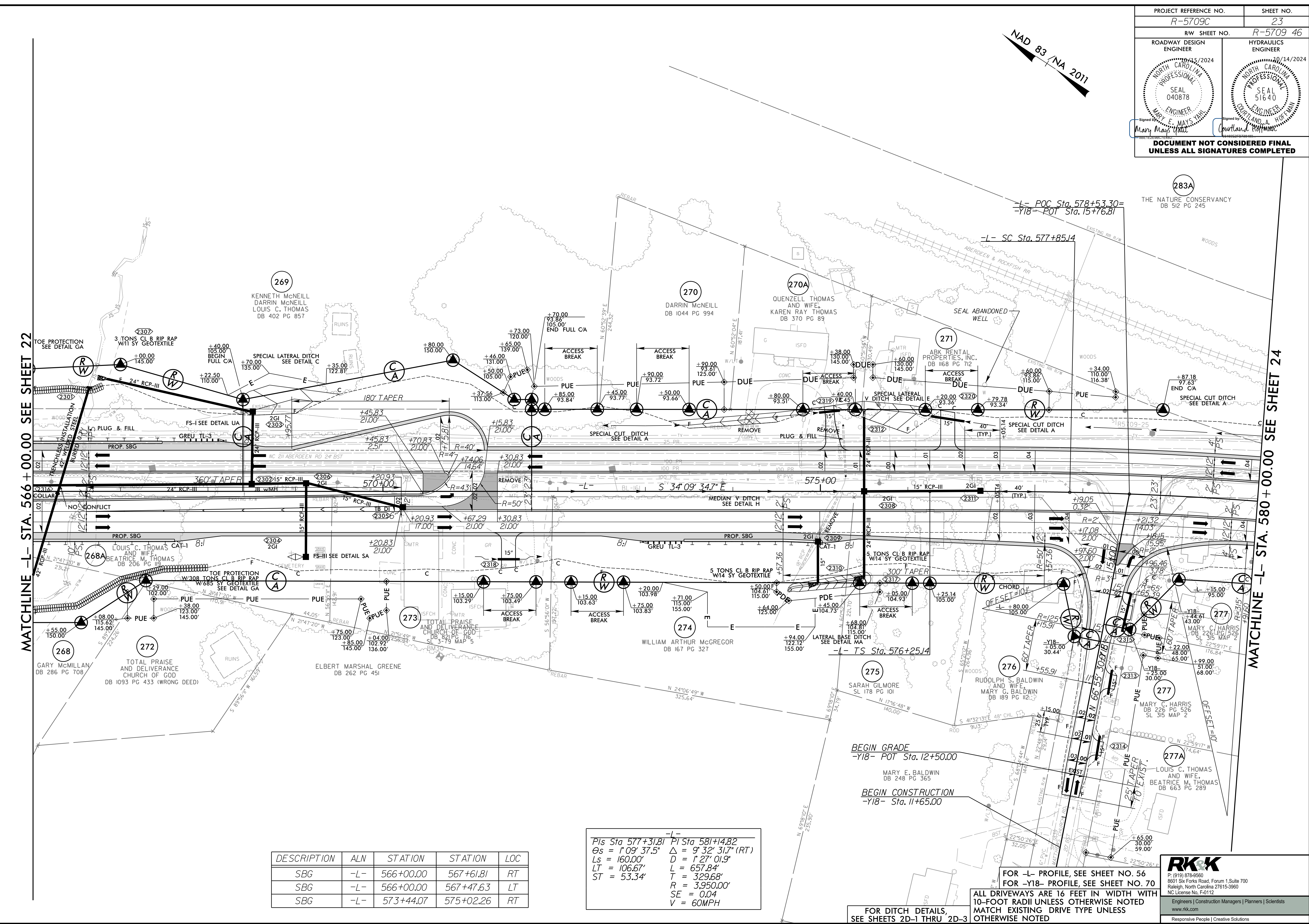
DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	557+47.59	560+41.69	LT
SBG	-L-	557+49.41	561+62.05	RT
SBG	-L-	561+34.25	566+00.00	LT
SBG	-L-	564+47.22	566+00.00	RT

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NO. 55

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

8/17/2024
R:\2024\Proj\N5709C_Rdwy_psh22.dgn
10/20/2024

NAD 83 / NA 2011



MATCHLINE -L- STA. 566 + 00.00 SEE SHEET 22

MATCHLINE -L- STA. 580 + 00.00 SEE SHEET 24

DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-L-	566+00.00	567+61.81	RT
SBG	-L-	566+00.00	567+47.63	LT
SBG	-L-	573+44.07	575+02.26	RT

-L-
 Pts Sta 577+31.81 PI Sta 581+4.82
 $\theta_s = 1^{\circ}09'37.5''$ $\Delta = 9^{\circ}32'31.7''$ (RT)
 $L_s = 160.00'$ $D = 1^{\circ}27'01.9''$
 $LT = 106.67'$ $L = 657.84'$
 $ST = 53.34'$ $T = 329.68'$
 $R = 3,950.00'$
 $SE = 0.04$
 $V = 60MPH$

BEGIN GRADE
 -Y18- POT Sta. 12+50.00
 MARY E. BALDWIN
 DB 248 PG 365
 BEGIN CONSTRUCTION
 -Y18- Sta. 11+65.00

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3

FOR -L- PROFILE, SEE SHEET NO. 56
 FOR -Y18- PROFILE, SEE SHEET NO. 70
 ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
 10-FOOT RADII UNLESS OTHERWISE NOTED
 MATCH EXISTING DRIVE TYPE UNLESS
 OTHERWISE NOTED

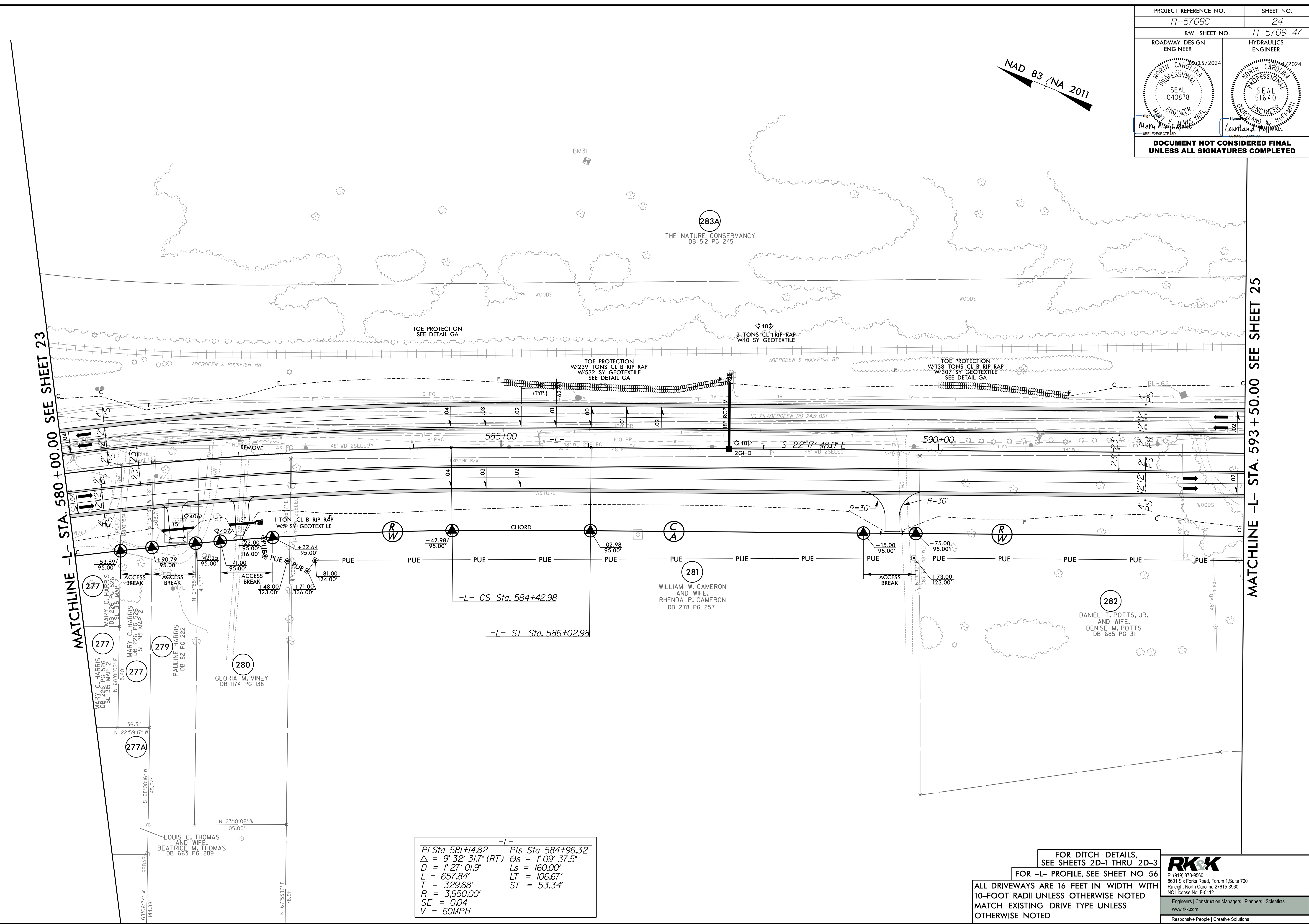
8/17/2024
 R:\3672024\Projects\5709C_Rdwy_psh23.dgn
 8/17/2024

PROJECT REFERENCE NO. R-5709C	SHEET NO. 24
RW SHEET NO. R-5709 47	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

MATCHLINE -L- STA. 580+00.00 SEE SHEET 23

MATCHLINE -L- STA. 593+50.00 SEE SHEET 25



-L-
 Pl Sta 581+14.82 Pls Sta 584+96.32
 $\Delta = 9^{\circ} 32' 31.7''$ (RT) $\Theta_s = 1^{\circ} 09' 37.5''$
 $D = 1^{\circ} 27' 01.9''$ $L_s = 160.00'$
 $L = 657.84'$ $LT = 106.67'$
 $T = 329.68'$ $ST = 53.34'$
 $R = 3,950.00'$
 $SE = 0.04$
 $V = 60MPH$

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NO. 56
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RKK
 P: (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8/17/99

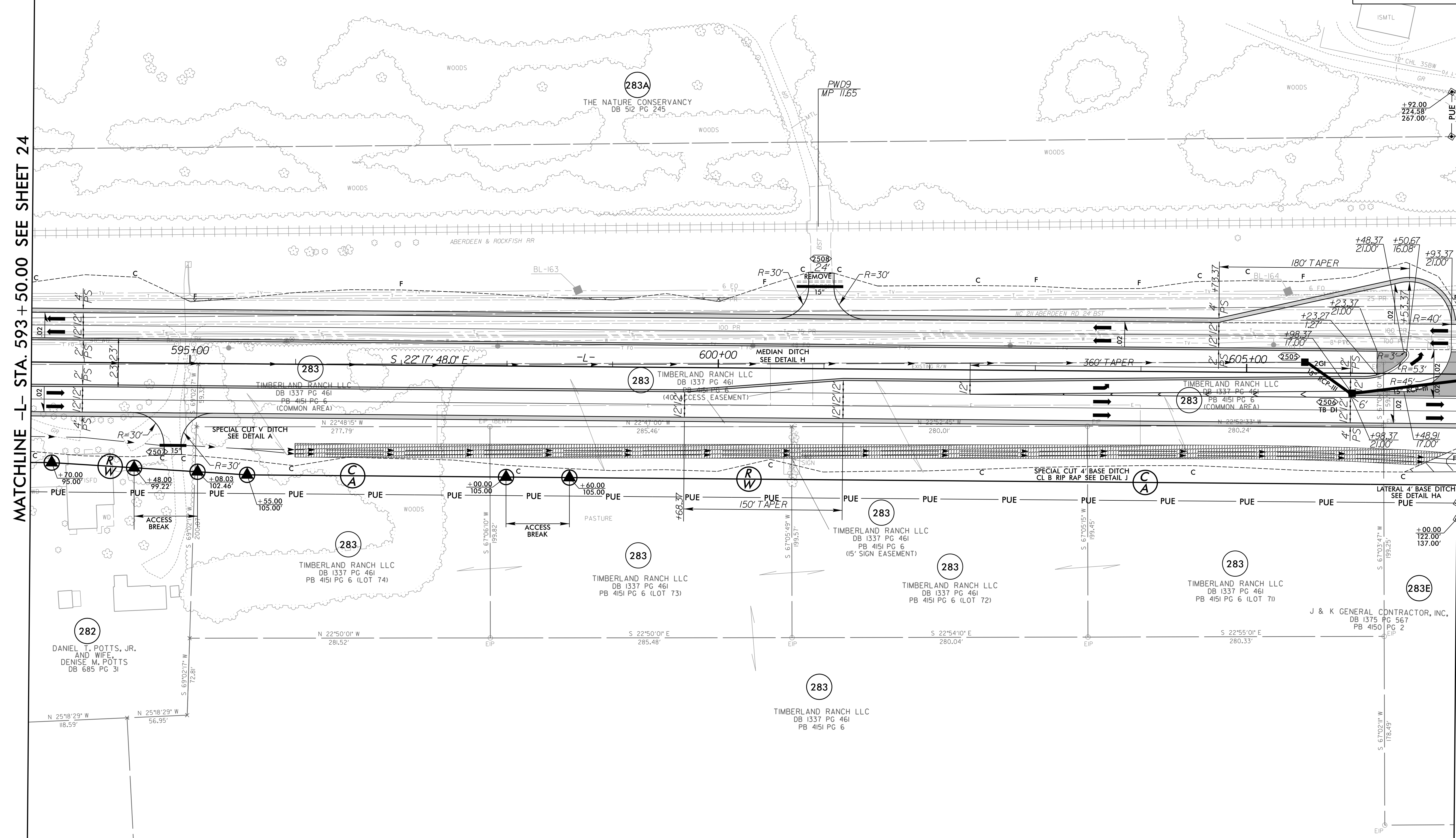
R:\2024\Proj\Proj\5709C_Rdy_psh24.dgn
 8/28/2024
 10:00 AM

PROJECT REFERENCE NO. R-5709C	SHEET NO. 25
RW SHEET NO. R-5709 48	
ROADWAY DESIGN ENGINEER SEAL 040878 Mary McLean	HYDRAULICS ENGINEER SEAL 51640 Covelland A. Hoffmann
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83 / NA 2011

MATCHLINE -L- STA. 593 + 50.00 SEE SHEET 24

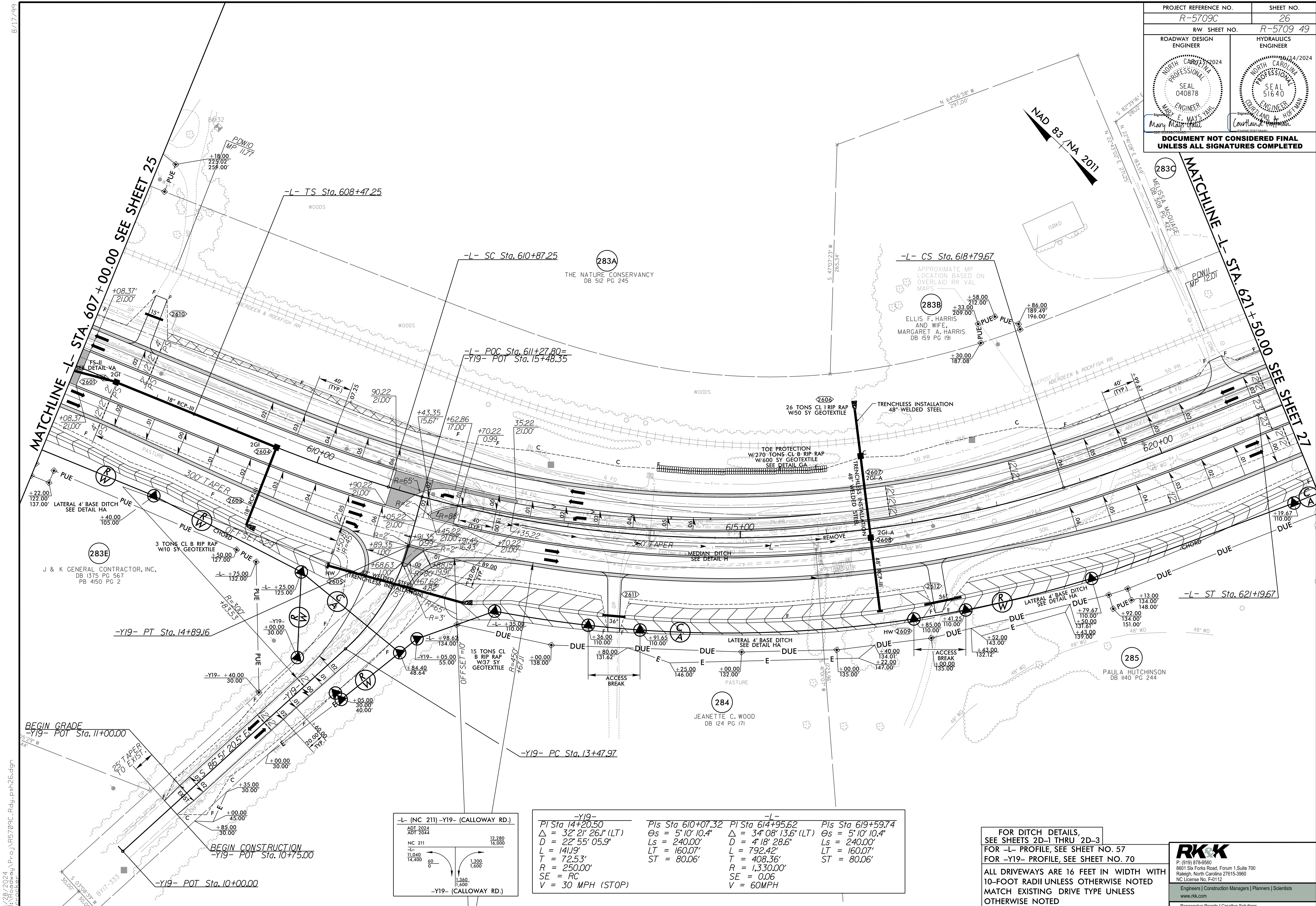
MATCHLINE -L- STA. 607 + 00.00 SEE SHEET 26



FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NOS. 56-57
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

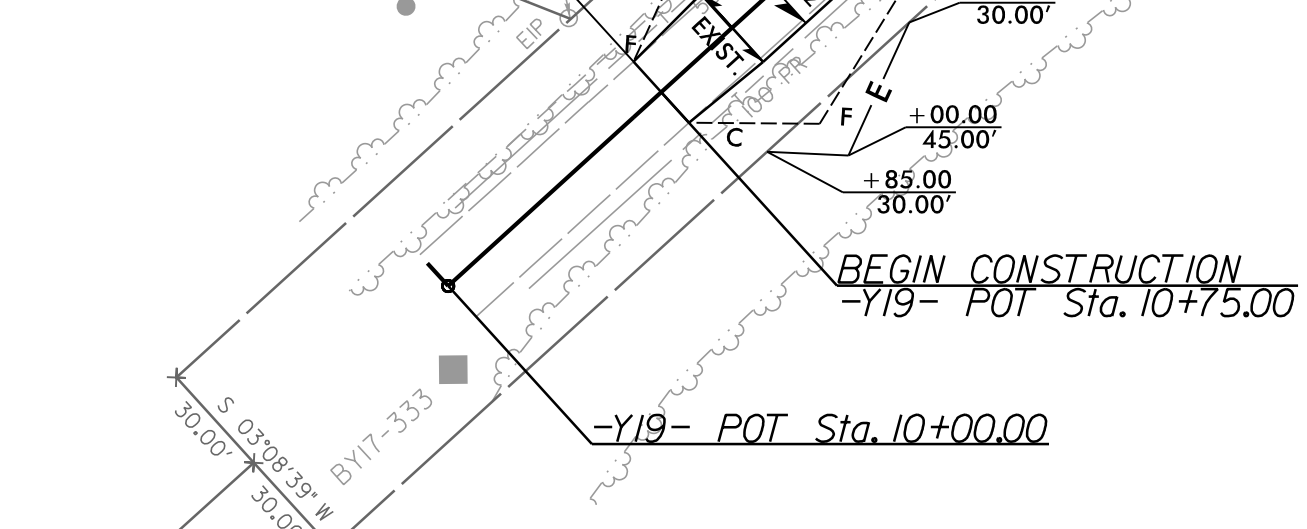
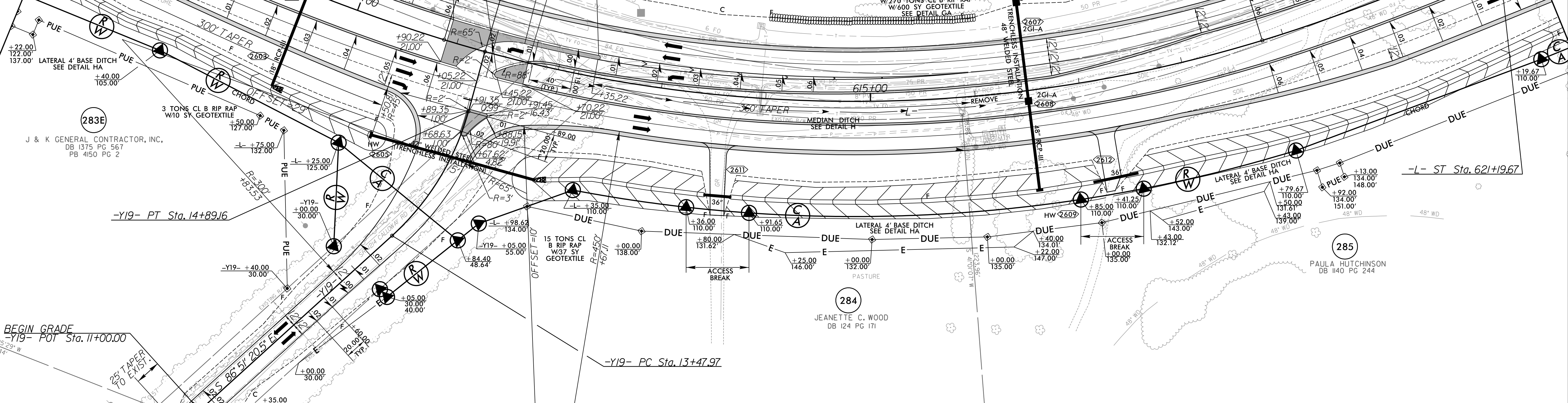
RKK
P: (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3990
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/24
R:\2024\Projects\5709C\5709C_Rdwy_psh25.dgn
8/28/2024
10:00 AM



MATCHLINE -L- STA. 607+00.00 SEE SHEET 25

MATCHLINE -L- STA. 621+50.00 SEE SHEET 27



-L- (NC 211) -Y19- (CALLOWAY RD.)	-Y19- (CALLOWAY RD.)	-L- (NC 211) -Y19- (CALLOWAY RD.)	-Y19- (CALLOWAY RD.)
PI Sta 14+20.50	PIs Sta 610+07.32	PI Sta 614+95.62	PIs Sta 619+59.74
$\Delta = 32^\circ 21' 26.1''$ (LT)	$\Delta = 5^\circ 10' 10.4''$	$\Delta = 34^\circ 08' 13.6''$ (LT)	$\Delta = 5^\circ 10' 10.4''$
$D = 22^\circ 55' 05.9''$	$D = 792.42'$	$D = 4^\circ 18' 28.6''$	$D = 240.00'$
$L = 141.19'$	$Ls = 240.00'$	$Ls = 240.00'$	$Ls = 240.00'$
$T = 72.53'$	$LT = 160.07'$	$L = 792.42'$	$LT = 160.07'$
$R = 250.00'$	$ST = 80.06'$	$T = 408.36'$	$ST = 80.06'$
$SE = RC$	$R = 1,330.00'$	$R = 1,330.00'$	$R = 1,330.00'$
$V = 30$ MPH (STOP)	$SE = 0.06$	$SE = 0.06$	$SE = 0.06$
	$V = 60$ MPH	$V = 60$ MPH	$V = 60$ MPH

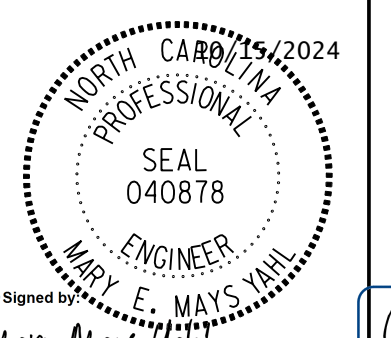
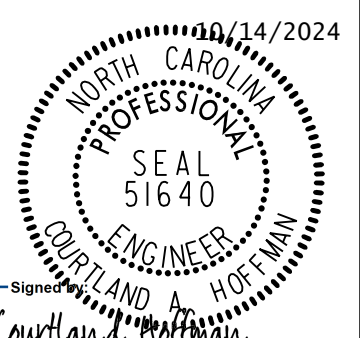
FOR DITCH DETAILS, SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NO. 57
FOR -Y19- PROFILE, SEE SHEET NO. 70

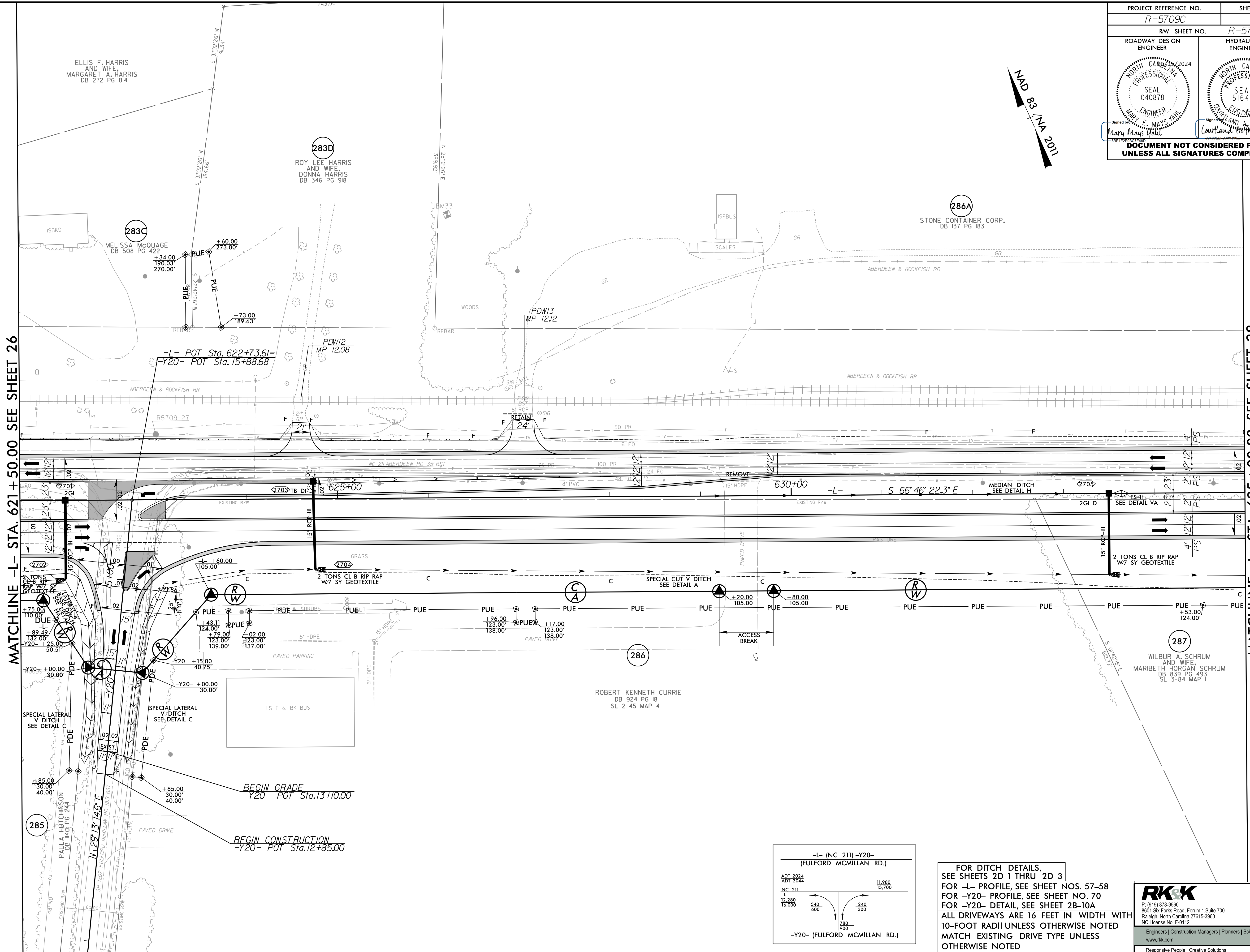
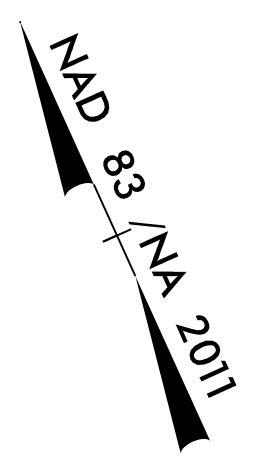
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH 10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS OTHERWISE NOTED

RKK
P: (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3990
NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

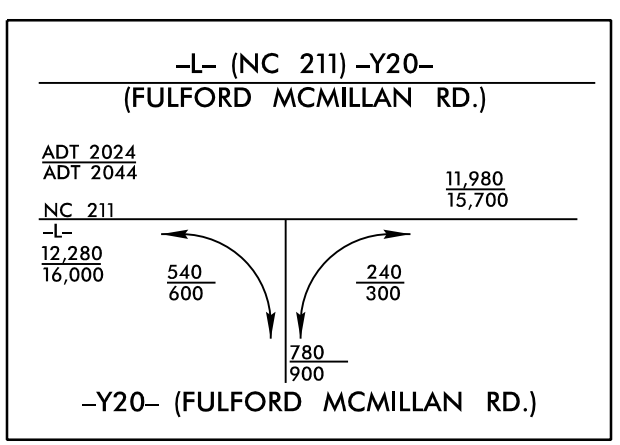
8/17/2024 8:38:20 AM R:\Projects\15709C_Rdwy\psh26.dgn

PROJECT REFERENCE NO. R-5709C	SHEET NO. 27
RW SHEET NO. R-5709 50	
ROADWAY DESIGN ENGINEER MARY E. MAYS	HYDRAULICS ENGINEER COURTLAND HOFFMAN
	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	



MATCHLINE -L- STA. 621 + 50.00 SEE SHEET 26

MATCHLINE -L- STA. 635 + 00.00 SEE SHEET 28

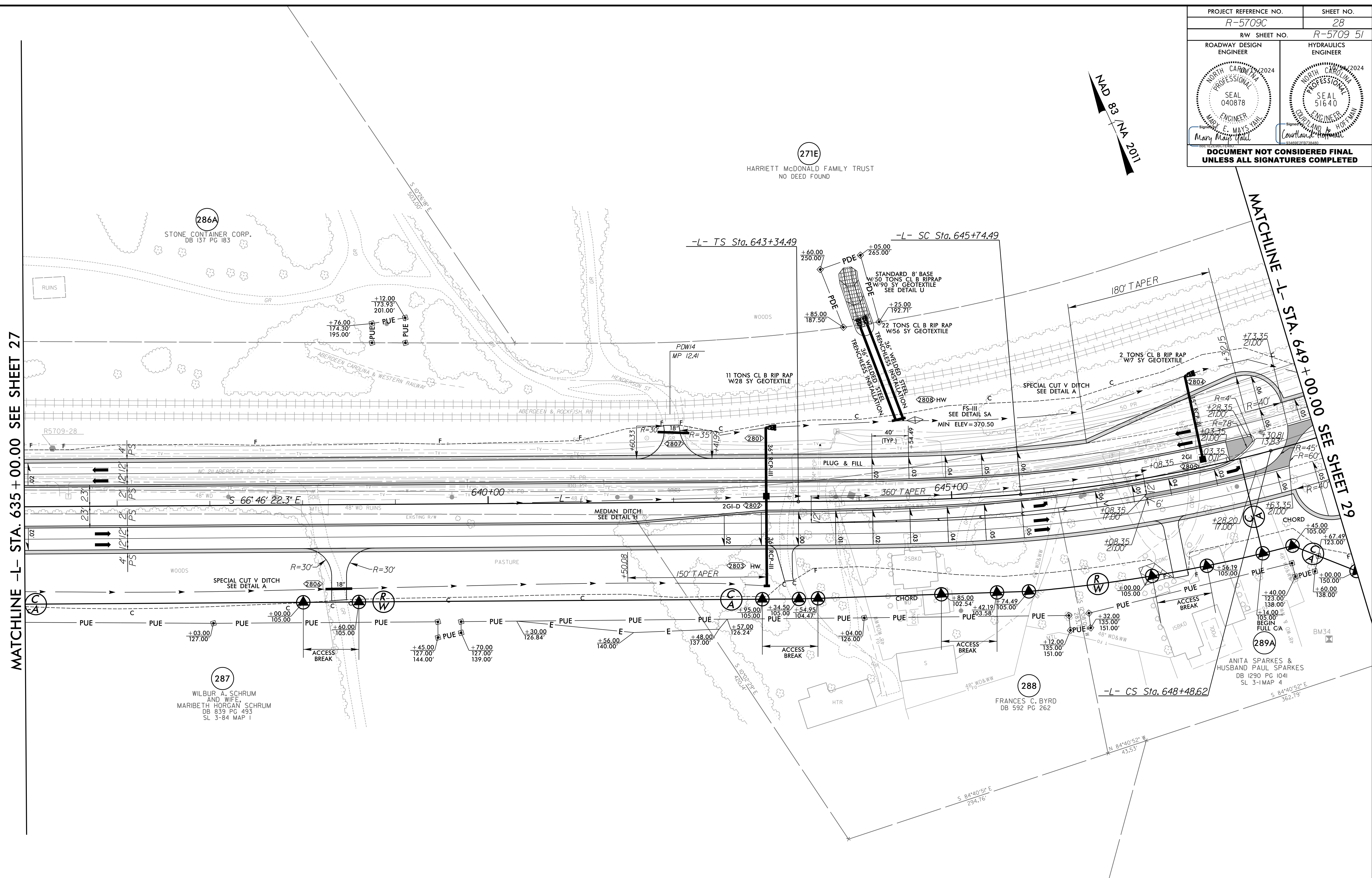
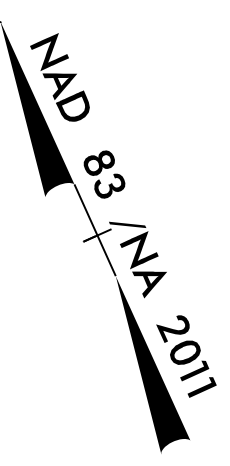


FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NOS. 57-58
FOR -Y20- PROFILE, SEE SHEET NO. 70
FOR -Y20- DETAIL, SEE SHEET 2B-10A
ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

RKK
 P. (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8/17/2024
 R:\2024\Projects\Projects\R5709C_Rd4_psh27.dgn
 8/17/2024
 R:\2024\Projects\Projects\R5709C_Rd4_psh27.dgn

PROJECT REFERENCE NO. R-5709C	SHEET NO. 28
RW SHEET NO. R-5709 51	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 635 + 00.00 SEE SHEET 27

MATCHLINE -L- STA. 649 + 00.00 SEE SHEET 29

-L-
 $Pis\ Sta\ 644+94.55$ $PI\ Sta\ 647+11.91$
 $\theta_s = 4' 26' 08.9"$ $\Delta = 10' 07' 58.5" (LT)$
 $Ls = 240.00'$ $D = 3' 4' 47.4"$
 $LT = 160.05'$ $L = 274.12'$
 $ST = 80.05'$ $T = 137.42'$
 $R = 1,550.00'$
 $SE = 0.06$
 $V = 60MPH$

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NO. 58

ALL DRIVEWAYS ARE 16 FEET IN WIDTH WITH
10-FOOT RADII UNLESS OTHERWISE NOTED
MATCH EXISTING DRIVE TYPE UNLESS
OTHERWISE NOTED

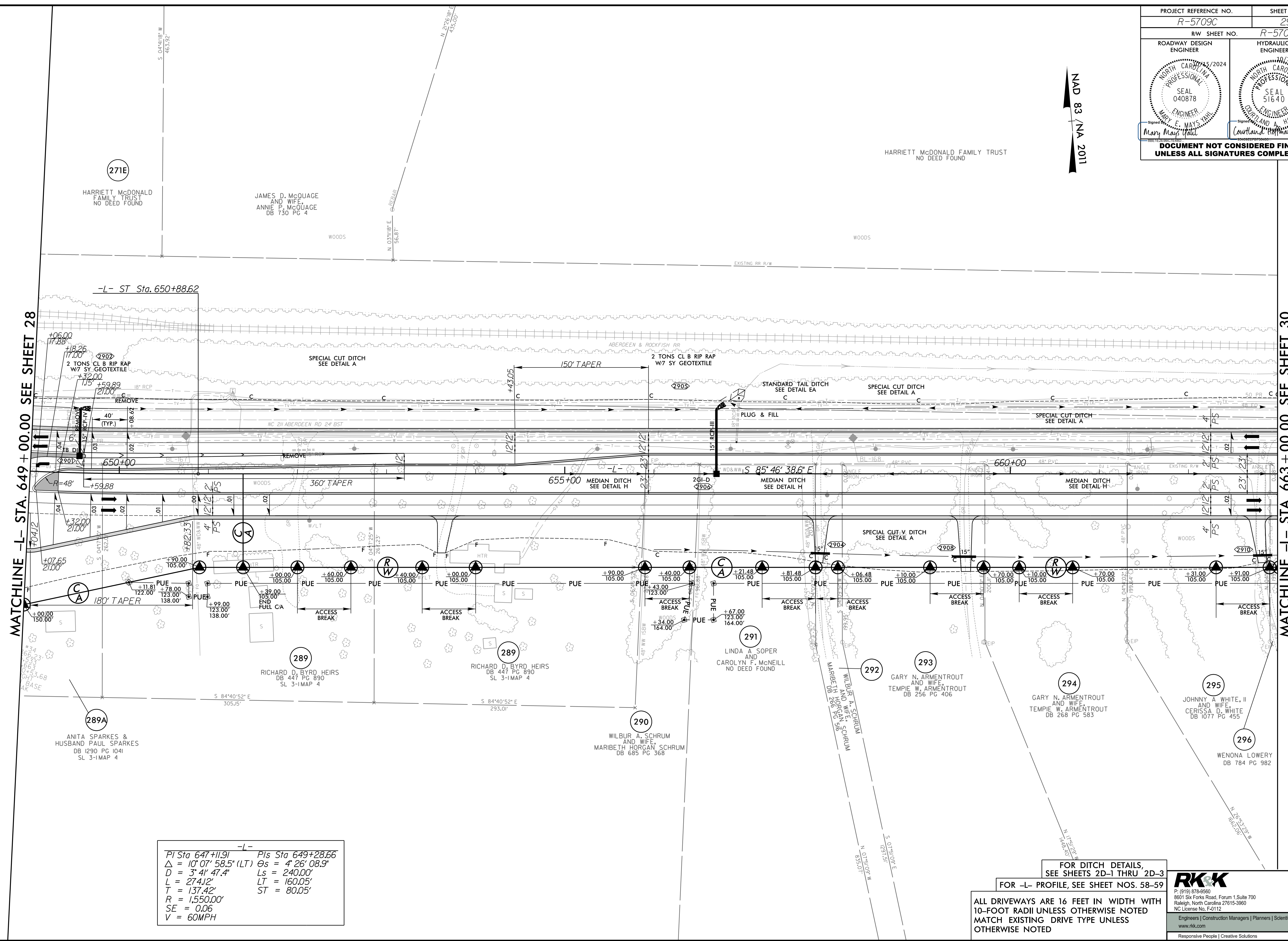
RKK
P: (919) 978-9990
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3990
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/2024

R:\2024\Projects\R5709C_Rdwy_psh28.dgn
12/10/2024

NAD 83 / NA 2011

HARRIETT McDONALD FAMILY TRUST
NO DEED FOUND



MATCHLINE -L- STA. 649 + 00.00 SEE SHEET 28

MATCHLINE -L- STA. 663 + 00.00 SEE SHEET 30

-L-
 PI Sta 647+11.91 Pls Sta 649+28.66
 $\Delta = 10^{\circ} 07' 58.5''$ (LT) $\theta_s = 4^{\circ} 26' 08.9''$
 $D = 3^{\circ} 41' 47.4''$ $L_s = 240.00'$
 $L = 274.12'$ $LT = 160.05'$
 $T = 137.42'$ $ST = 80.05'$
 $R = 1,550.00'$
 $SE = 0.06$
 $V = 60MPH$

FOR DITCH DETAILS,
SEE SHEETS 2D-1 THRU 2D-3
FOR -L- PROFILE, SEE SHEET NOS. 58-59

RKK
 P: (919) 978-9990
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3990
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

8/17/2024
 R:\2024\Projects\Projects\R5709C_Rdwy_psh29.dgn
 8/17/2024
 R:\2024\Projects\Projects\R5709C_Rdwy_psh29.dgn
 8/17/2024
 R:\2024\Projects\Projects\R5709C_Rdwy_psh29.dgn