



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

April 26, 2016

Mr. David Bailey
NCDOT Coordinator
U.S. Army Corps of Engineers
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

SUBJECT: Permit Modification Request for Section 404 Individual Permit and Section 401 Individual Water Quality Certification for the new location facility from SR 2011 to the Haw River at US 220, Greensboro, Guilford County; Division 7; TIP No. R-2413A/B

Debit \$570.00 from WBS No. 34429.1.1

Reference: US Army Corps of Engineers (USACE) 404 Permit issued January 28, 2014; Action ID: SAW2013-00557, Modified October 14, 2014 and May 26, 2015.

NC Division of Water Resources (NCDWR) 401 Water Quality Certification Permit issued October 28, 2013, NCDWR Project No. 20130517; Modified February 3, 2014, NCDWR Project No. 20130517 v.2; Modified October 17, 2014, NCDWR Project No. 20130517 v3, and Modified June 2, 2015, NCDWR Project No. 20130517 v4.

Dear Mr. Bailey:

The North Carolina Department of Transportation (NCDOT) awarded the design-build team this project on April 8, 2014 to construct projects R-2413A, R-2413B, and I-5110. Sections R-2413A and B were authorized by the USACE and NCDWR as referenced above. We are requesting a modification in the permits for a new impact area: Permit Site 24 in Section R-2413A.

Permit Site 24. Impacts were avoided in the original design at this stream crossing as the plans called for a gravity wall to carry the extra lane. However, further geotechnical analysis determined that due to stability issues, neither the gravity wall nor other options (MSE, pile panel, etc.) were viable as they would impact either existing traffic on NC 68 or the pipes under NC 68. Therefore, the only option is to extend the pipes under NC 68, which will result in impacts of 15 LF of permanent fill, 31 LF of bank stabilization, and 10 LF of temporary fill in surface waters. Please see Revised Permit Drawings 1 and 78-81 of 81, new Permit Drawings 1A, 1B, and 1C, and Roadway Plan Sheets 1 and 6.

As noted on the revised summary table impacts for R-2413 Section A (drawing 81 of 81) there are 8,993 LF of permanent impacts and 977 LF of temporary impacts to jurisdictional streams.

Nothing ComparesSM

Note: In the May 26, 2015 permit modification, 10 LF of permanent stream impacts due to bank stabilization for Site 7A (drawings 21-23 of 81) were added to the Permit Summary Impact table, but inadvertently not carried down to be included in the overall Project TOTALS cell of the Existing Channel Impacts Permanent (FT) column. This oversight has been corrected on this submittal.

Mitigation

The additional 15 LF of permanent stream impact requires mitigation. See the attached letter from the NC Department of Mitigation Services approving the mitigation for this addition and the total permanent stream impacts for both R-2413 A and B.

Regulatory Approvals

Application is hereby made for a Department of the Army Section 404 Individual Permit Modification for the above-described activities for the proposed T.I.P. Project R-2413A.

We are also hereby requesting a Section 401 Individual Water Quality Certification Modification from NCDWR. In compliance with Section 143-215.3D (e) of the NCAC, we will provide \$570.00 to act as payment for processing the Section 401 permit.

Project R-2413 does fall within the Jordan Lake Water Supply Watershed. However, NCDOT is not requesting a Jordan Buffer Authorization because an approved SFONSI was issued for this project in March 1995, which is prior to the adoption of the Jordan Lake Riparian Buffer Rules.

A copy of this permit application and its distribution list will be posted on the NCDOT website at <https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>. Thank you for your time and assistance with this project. Please contact Deanna Riffey at either driffey@ncdot.gov or (919) 707-6151 if you have any questions or need additional information.

Sincerely,



Philip S. Harris III, P.E., C.P.M.
Natural Environment Section Head

cc: NCDOT Permit Application Standard Distribution List



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

April 19, 2016

Mr. Philip S. Harris, III, P.E., PLS
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

TIP Number R-2413A, NC 68 Connector, US 220 from SR 2127 (Brook Bank Road) to the Haw River, Guilford County

Reference: USACE 404 Individual Permit issued January 28, 2014 (USACE Action ID 2013-00557) and modified Individual Permit issued October 14, 2014

NCDWR 401 Water Quality Certification (WQC) issued February 3, 2014 (NCDWR ID 2013-0517) and modified 401 WQC issued October 17, 2014

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the additional stream mitigation for the subject project. Based on the information supplied by you on April 8, 2016, the additional stream impacts are located in CU 03030002 of the Cape Fear River Basin in the Central Piedmont (CP) Eco-Region, and are as follows:

Table 1 – Additional Impacts (feet / acres)

Cape Fear 03030002 CP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1 (3:1)	Zone 2 (1.5:1)
Impacts (feet/acres)	0	0	15.0	0	0	0	0	0

*NOTE: Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

These impacts and associated mitigation needs were not projected by the NCDOT in the 2016 impact data. DMS is currently providing stream and riparian wetland mitigation for the impacts associated with this project located in cataloging unit 03030002 of the Cape Fear River basin as required by the 404 and 401 permits issued in January 2014, and modifications issued in October 2014, as shown in the below table (in mitigation credits):





PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

Mr. Harris
TIP R-2413A/B
April 19, 2016
Page Two

Table 2 – Current Permitted Impacts and Associated Mitigation Requirements provided by DMS (based on 2015 permits) and Revised Anticipated Impacts (based on mitigation request)

Impact Type	Total Permitted Impacts (feet / acre / sq ft)	Mitigation Provided by DMS per Issued Permits (Credits)	Additional Impact (for approval)	Revised Total Impacts*
Stream	9,438.0	18,028.0	15.0	9,453.0
Riparian Wetland	5.48	10.94	0	5.48

*Some of the additional wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. DMS will provide the amount of mitigation as determined by the regulatory agencies.

This impact and associated mitigation need were under projected by the NCDOT in the 2016 impact data. DMS will commit to implement sufficient compensatory mitigation credits to offset the additional impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. **This mitigation acceptance letter replaces the mitigation acceptance letters that was issued on May 7, July 16 and September 24, 2013 and January 28, 2014.**

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

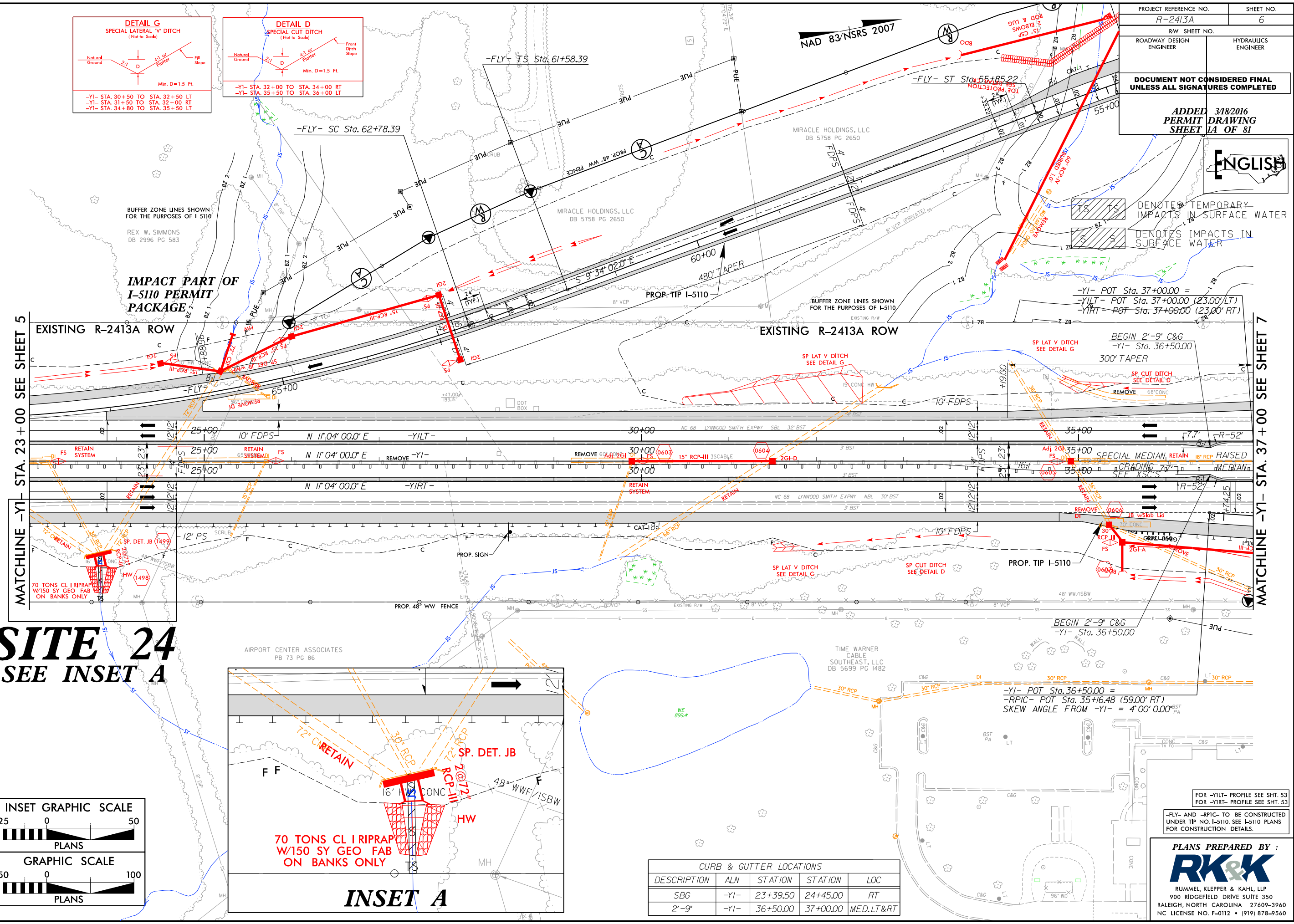
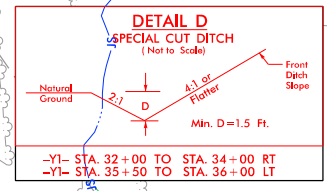
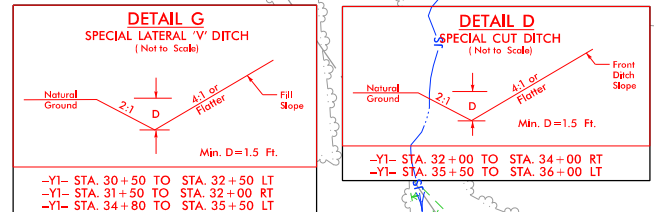
Sincerely,

James B. Stanfill
Credit Management Supervisor

Cc: Mr. David Bailey, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: R-2413A/B Additional



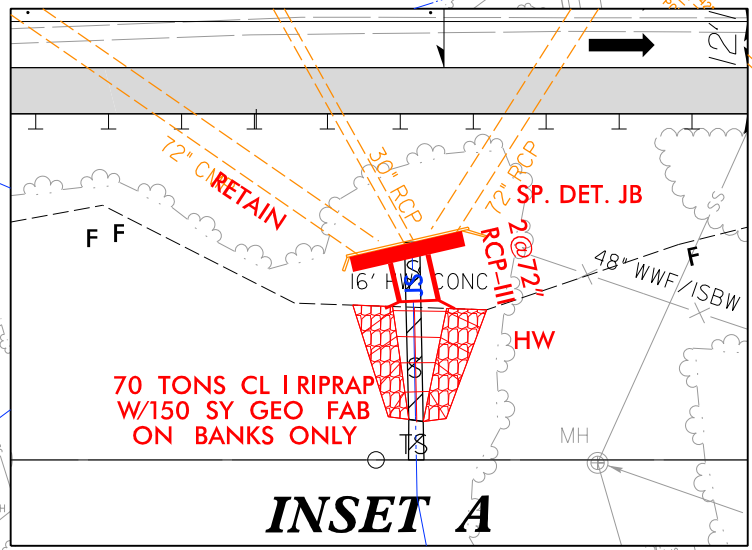
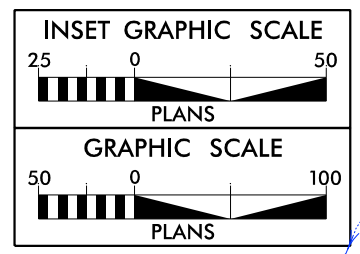
PROJECT REFERENCE NO. R-2413A	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
ADDED PERMIT SHEET 1A OF 81	
3/18/2016 DRAWING 1A OF 81	



MATCHLINE -YI- STA. 23+00 SEE SHEET 5

MATCHLINE -YI- STA. 37+00 SEE SHEET 7

SITE 24
SEE INSET A



CURB & GUTTER LOCATIONS				
DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-YI-	23+39.50	24+45.00	RT
2'-9"	-YI-	36+50.00	37+00.00	MED. LT & RT

FOR -YILT- PROFILE SEE SHT. 53
FOR -YIRT- PROFILE SEE SHT. 53

-FLY- AND -RPIC- TO BE CONSTRUCTED UNDER TIP NO. I-5110. SEE I-5110 PLANS FOR CONSTRUCTION DETAILS.

PLANS PREPARED BY :

RK&K

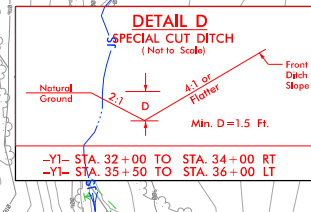
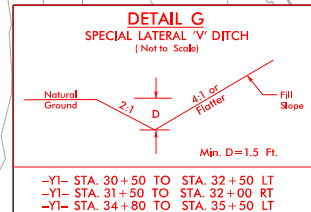
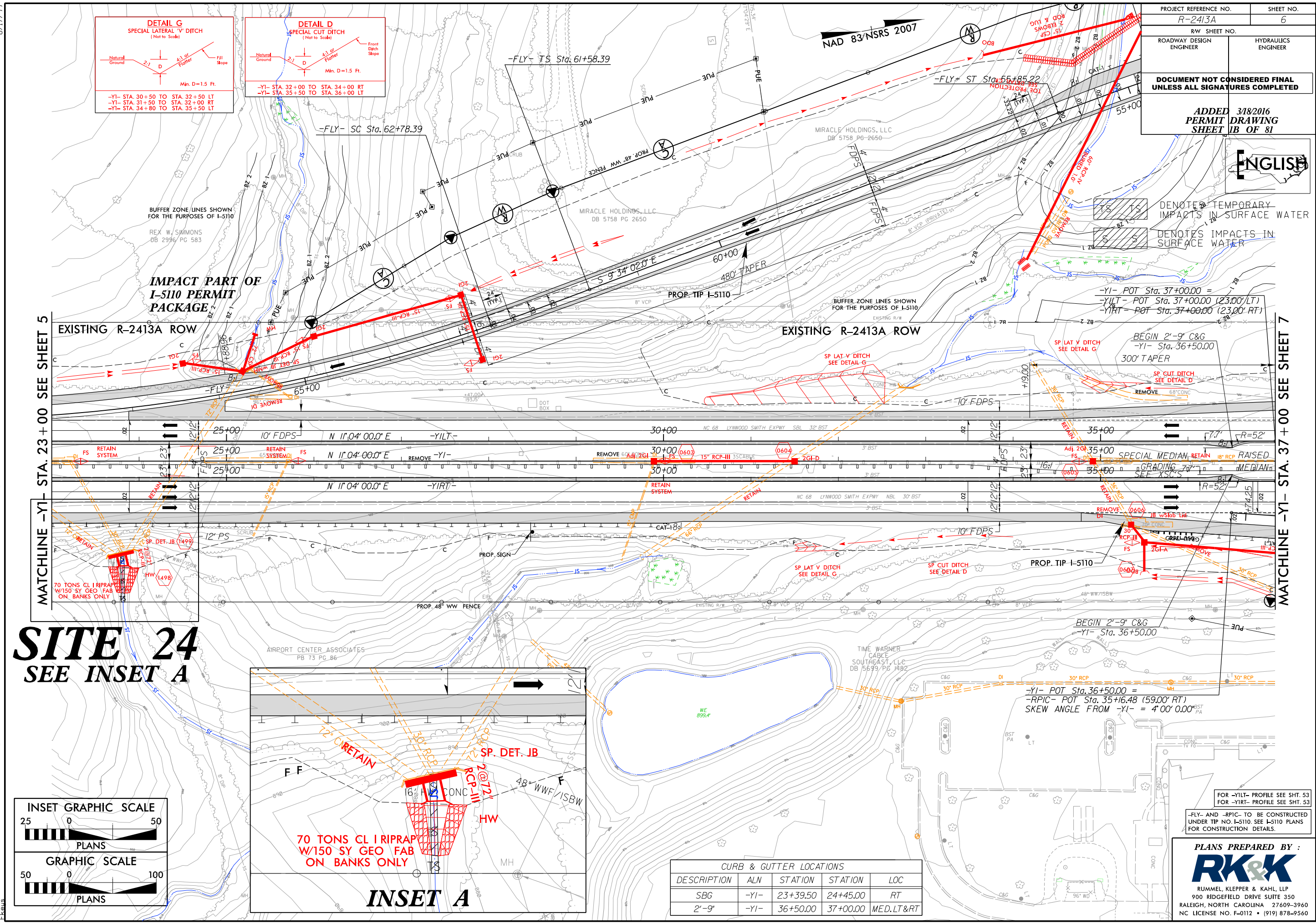
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

8/17/99
3/16/2016
R:\Projects\PERMITS_Environmental\Drawings\NR-2413A\PERMIT_MODIFICATION\NR2413a_HYD_PRR_WET_psh06.dgn

PROJECT REFERENCE NO. R-2413A	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
ADDED PERMIT DRAWING SHEET 3/18/2016 3/18/2016 IB OF 81	

ENGLISH

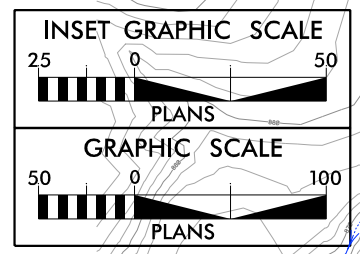
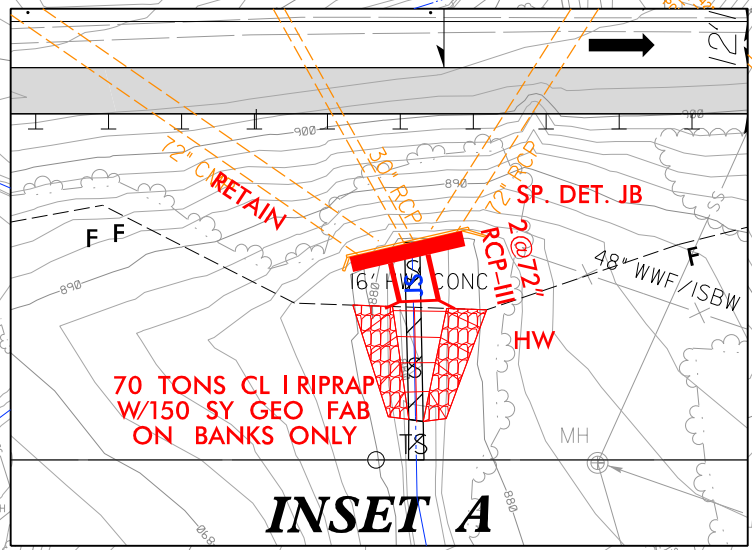
DENOTES TEMPORARY IMPACTS IN SURFACE WATER
DENOTES IMPACTS IN SURFACE WATER



MATCHLINE -YI- STA. 23+00 SEE SHEET 5

MATCHLINE -YI- STA. 37+00 SEE SHEET 7

SITE 24
SEE INSET A



CURB & GUTTER LOCATIONS				
DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-YI-	23+39.50	24+45.00	RT
2'-9"	-YI-	36+50.00	37+00.00	MED. LT & RT

FOR -YILT- PROFILE SEE SHT. 53
FOR -YIRT- PROFILE SEE SHT. 53
-FLY- AND -RPIC- TO BE CONSTRUCTED UNDER TIP NO. I-5110. SEE I-5110 PLANS FOR CONSTRUCTION DETAILS.

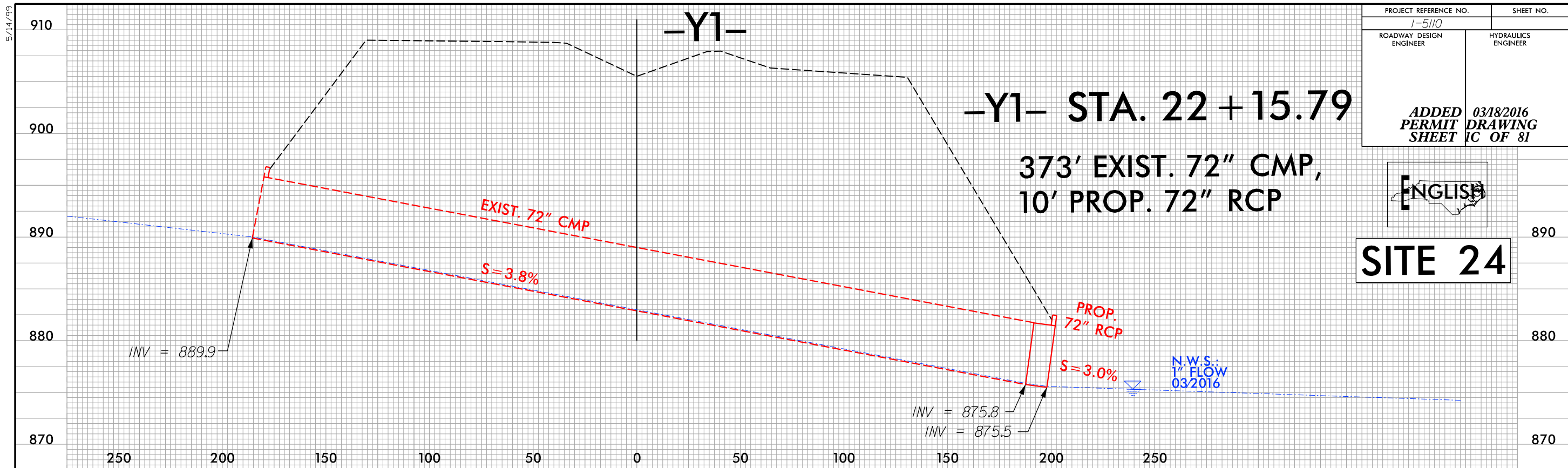
PLANS PREPARED BY:
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

8/17/99
3/16/2016
C:\Users\jcs\Documents\Drawings\Environmental\Drawings\Permit\Drawings\NR-2413A\PERMIT_MODIFICATION\NR2413A_HYD_PLM_WET_psh06_con.dgn

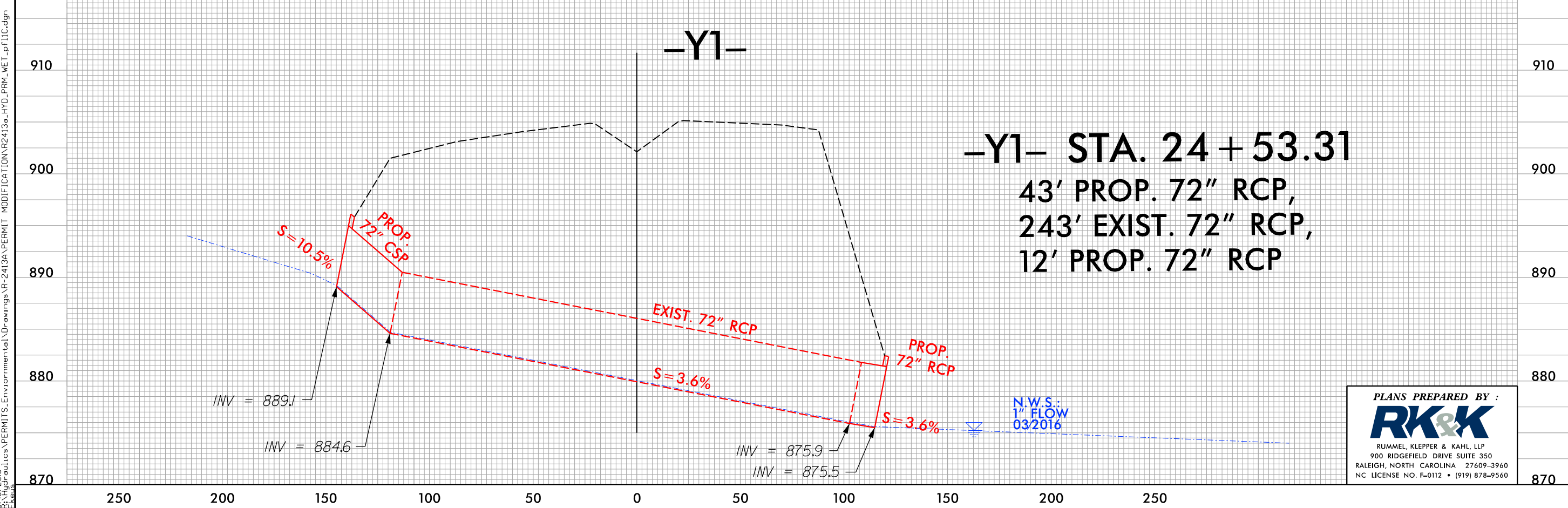
PROJECT REFERENCE NO. I-5110	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
ADDED PERMIT SHEET	03/18/2016 DRAWING IC OF 81



SITE 24



-Y1- STA. 22 + 15.79
 373' EXIST. 72" CMP,
 10' PROP. 72" RCP



-Y1- STA. 24 + 53.31
 43' PROP. 72" RCP,
 243' EXIST. 72" RCP,
 12' PROP. 72" RCP

PLANS PREPARED BY :

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

5/14/99
 3/16/2016
 R:\Projects\2016\Permits\Environmental\Drawings\2413A\PERMIT MODIFICATION\2413a_HYD_PRM_WET_pf11C.dgn

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-RP1B- 34+00 -Y1- 50+00	60" RCP-CD	0.02					0.12	<0.01	630	11	
		Bank Stabilization								21		
2	-L- 117+00											
2A		Road Fill	<0.01			<0.01		0.01	<0.01	83	41	
2B		Road Fill						<0.01		50		
2C		60" CSP						0.02	<0.01	351	21	
		Bank Stabilization								23		
3	-L- 133+00 -Y1C- 13+00	36" CSP 42" RCP-IV						0.02	<0.01	193	32	
		Bank Stabilization								32		
4	-L- 138+00 -Y1C- 17+00	36" CSP 42" RCP-IV	0.23			0.01		0.03	<0.01	521	49	
		Bank Stabilization								29		
5	-L- 161+0-162+0	66" SPSP						0.03	<0.01	408	33	
		Bank Stabilization								20		
6	-L- 193+50-197+00	30" RCP & 54" CSP	<0.01					0.04	<0.01	409	21	
		Bank Stabilization								23		
SUBTOTALS:			0.24			0.01		0.27	<0.07	2793	208	

** SITE 1 PERMANENT FILL IN WETLAND IN ORIGINAL PERMIT WAS CALCULATED WRONG DUE TO A ROUNDING ERROR. IT WAS LISTED AS 0.01 AC; IT SHOULD HAVE BEEN 0.02AC

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GUILFORD COUNTY
WBS - 34429.1.1 (R-2413A)
PERMIT DRAWING REVISIONS
SHEET 78 OF 81 9/3/2014

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
7	206+50 to 208+50 -L-	60" CSP & 54" CSP										
7a.								0.03	<0.01	379	11	
7b.								<0.01	<0.01	26	10	
7c.								<0.01		31		
		Bank Stabilization								55		
8	228+00 TO 233+50 -L-	66" CSP										
8a.								0.06	<0.01	654	50	
8b.								<0.01		50		
8c.								<0.01		34		
		Bank Stabilization								21		
9	232+50 TO 235+50 -L-	42" CSP						0.60 (pond)				
10	247+50 -L-	72" CSP										
10a.			0.01		<0.01			0.05	<0.01	426	41	
10b.								<0.01		49		
10c.						0.01		0.01		116		
		Bank Stabilization								20		
11	249+50 TO 251+50 -L-	48" CSP	0.12					<0.01	<0.01	47	17	
SUBTOTALS:			0.14		<0.01	0.00		0.16	<0.06	1908	129	

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 GUILFORD COUNTY
 WBS - 34429..1.1 (R-2413A)
 REVISED
 SHEET 79 OF 81 5/6/2015

ATN Revised 3/31/05

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
12	269+50 -L-	72" CSP										
12a.							0.03		299			1163*
12b.							0.01		131			
13	277+00 to 281+00 -L-	54" RCP										
13a.							0.04	<0.01	525	10		977*
13b.							0.01		106			
14	307+00 -L-	78" CSP										
14a.							0.07		551	20		
14b.							0.02		258	10		
		Bank Stabilization							25			
15	322+50 to 326+00 -L-	54" CSP										
15a.			0.01				0.04	<0.01	513	41		
		Bank Stabilization							20			
15b.							<0.01		46			
16	327+50 to 329+50 -L-	72" CSP										
16a.			0.15				0.02	<0.01	342	29		
		Bank Stabilization							20			
16b.							<0.01		33			
SUBTOTALS:			0.16				0.24	0.03	2,869	110		2,140

* See Plan for On-Site Mitigation

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 GUILFORD
 COUNTY
 WBS - 34429.1.1 (R-2413A)

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
12	269+50 -L-	72" CSP										
12a.								0.03		299		1163*
12b.								0.01		131		
13	277+00 to 281+00 -L-	54" RCP										
13a.								0.04	<0.01	525	10	977*
13b.								0.01		106		
14	307+00 -L-	78" CSP										
14a.								0.07		551	20	
14b.								0.02		258	10	
		Bank Stabilization								25		
15	322+50 to 326+00 -L-	54" CSP										
15a.			0.01					0.04	<0.01	513	41	
		Bank Stabilization								20		
15b.								<0.01		46		
16	327+50 to 329+50 -L-	72" CSP										
16a.			0.15					0.02	<0.01	342	29	
		Bank Stabilization								20		
16b.								<0.01		33		
SUBTOTALS:			0.16					0.24	0.03	2,869	110	2,140

* See Plan for On-Site Mitigation

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 GUILFORD
 COUNTY
 WBS - 34429.1.1 (R-2413A)

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
17	-L- 334+00-336+50	36" CSP	0.35			0.03						
18****	-L- 338+00-340+50	Bridge		0.04			0.13		0.03		172	
19	-L- 348+00-353+00	60" RCP						0.03	<0.01	507	34	
20	-Y4- 17+50-19+00	36" CSP	0.11					0.02		240		
21	-Y5- 29+00-36+00	1@12'x12' RCBC										
21A			2.11			0.13		0.06	0.09	288	262	250*
21B		Road Fill						0.01		149		
22	Y1C- 25+50	48" CSP						0.02	<0.01	177	40	
		Bank Stabilization								16		
23	-Y5- 16+50	30" CSP/PDE							<0.01		12	
24	-Y1- 23+81 RT	2 @ 72" RCPs						<0.01	<0.01	15	10	
		Bank Stabilization						<0.01		31		
SUBTOTALS:			2.57	0.04		0.16	0.13	0.14	0.13	1423	530	250
TOTALS:			3.11 **	0.04	<0.01	0.19	0.13	0.78	0.29	8993	977 ***	2390

* SEE PLAN FOR ON-SITE MITIGATION

** PERMANENT FILL IN WETLAND IN ORIGINAL PERMIT WAS SUMMED WRONG. IT WAS LISTED AS 3.13ac; IT SHOULD HAVE BEEN 3.14ac

*** TEMP CHANNEL IMPACT IN ORIGINAL PERMIT WAS SUMMED WRONG. IT WAS LISTED AS 922'; IT SHOULD HAVE BEEN 952'

**** PERMANENT PIER WETLAND IMPACTS= 40sqft

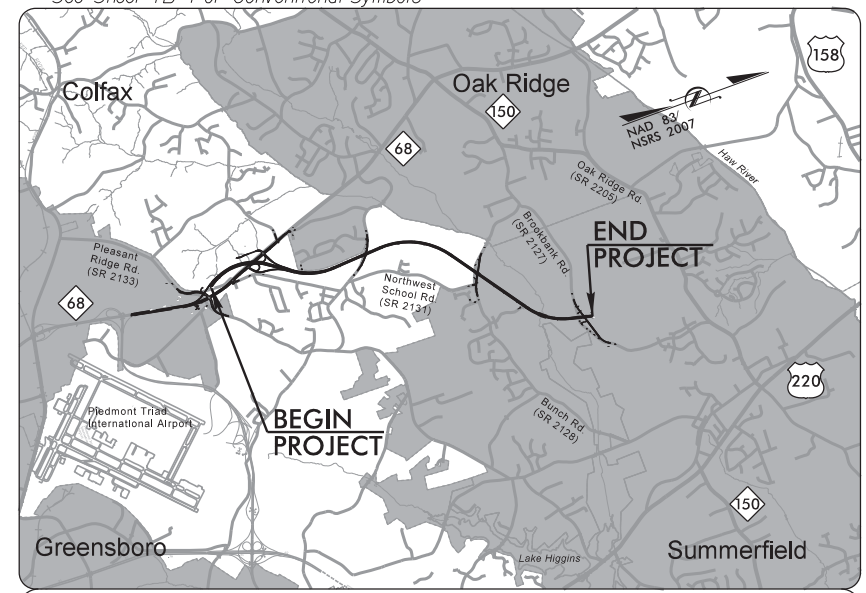
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GUILFORD COUNTY
WBS - 34429.1.1 (R-2413A)

REVISED

09/26/09

See Sheet 1A for Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

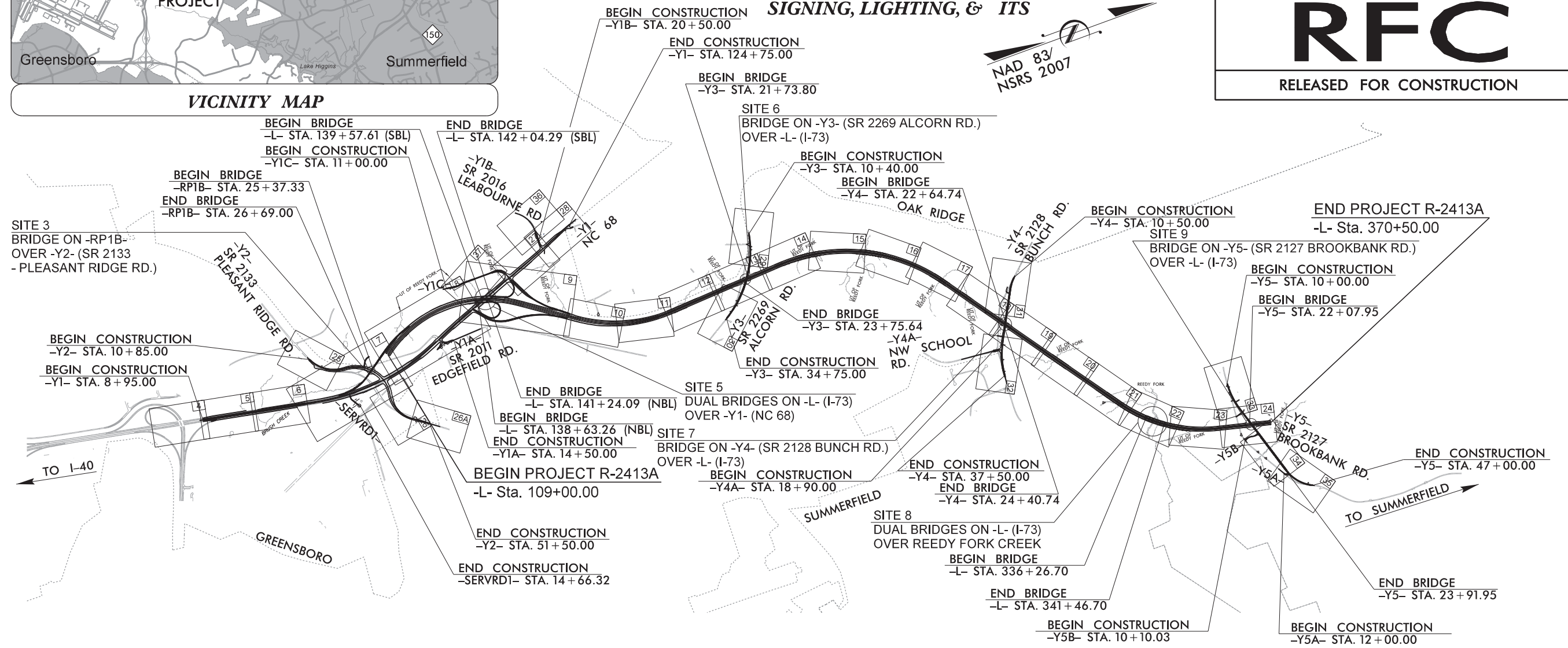
LOCATION: FUTURE I-73 FROM EAST OF SR 2127 (BROOKBANK ROAD) TO HAW RIVER

TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, RESURFACING, STRUCTURES, SIGNALS, SIGNING, LIGHTING, & ITS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2413A	1	
WBS NO.	F.A. PROJ. NO.	DESCRIPTION	
34429.3.S8	NHF-0073(25)	PE	

CONSTRUCTION REVISION SUBMITTAL NO.: S-229
DATE: 04-05-2016

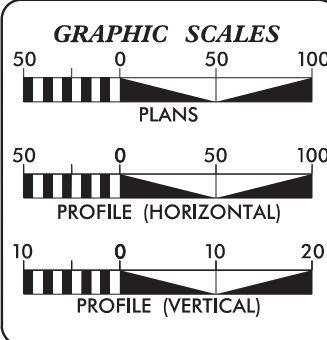
RFC
RELEASED FOR CONSTRUCTION



TIP PROJECT: R-2413A

CONTRACT: C203433

THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.



DESIGN DATA

ADT 2014 =	24,500
ADT 2035 =	42,200
DHV =	11%
D =	65%
*T =	15%
V =	70 mph

(*TTST 10% + DUALS 5%)
FUNC. CLASS = INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2431A.....	4.807 mi
LENGTH STRUCTURES TIP PROJECT R-2431A.....	0.146 mi
TOTAL LENGTH TIP PROJECT R-2431A.....	4.953 mi

NCDOT CONTACT

K. Zak Hamidi, P.E.
PROJECT ENGINEER - DESIGN BUILD GROUP

PLANS PREPARED BY:

RK&K RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE, SUITE 350
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO. F-0112

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

J.T. Peacock, Jr., P.E.
PROJECT ENGINEER

Brandon J. McInnis, P.E.
PROJECT DESIGN ENGINEER

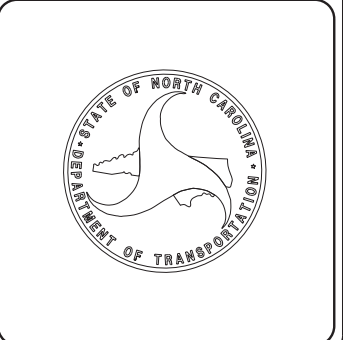
LETTING DATE:
APRIL 2014

HYDRAULICS ENGINEER

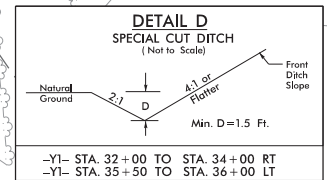
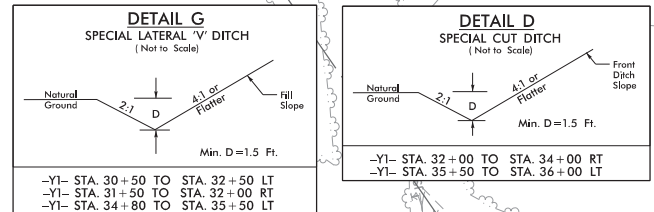
ROADWAY DESIGN ENGINEER

Matthew L. Cook, P.E.
SEAL 27434
SIGNATURE: [Signature]

Brandon J. McInnis, P.E.
SEAL 29470
SIGNATURE: [Signature]



4/5/2016 R:\Roadway\Proj\NR2413a_Rdy_tsh.dgn Fkeys

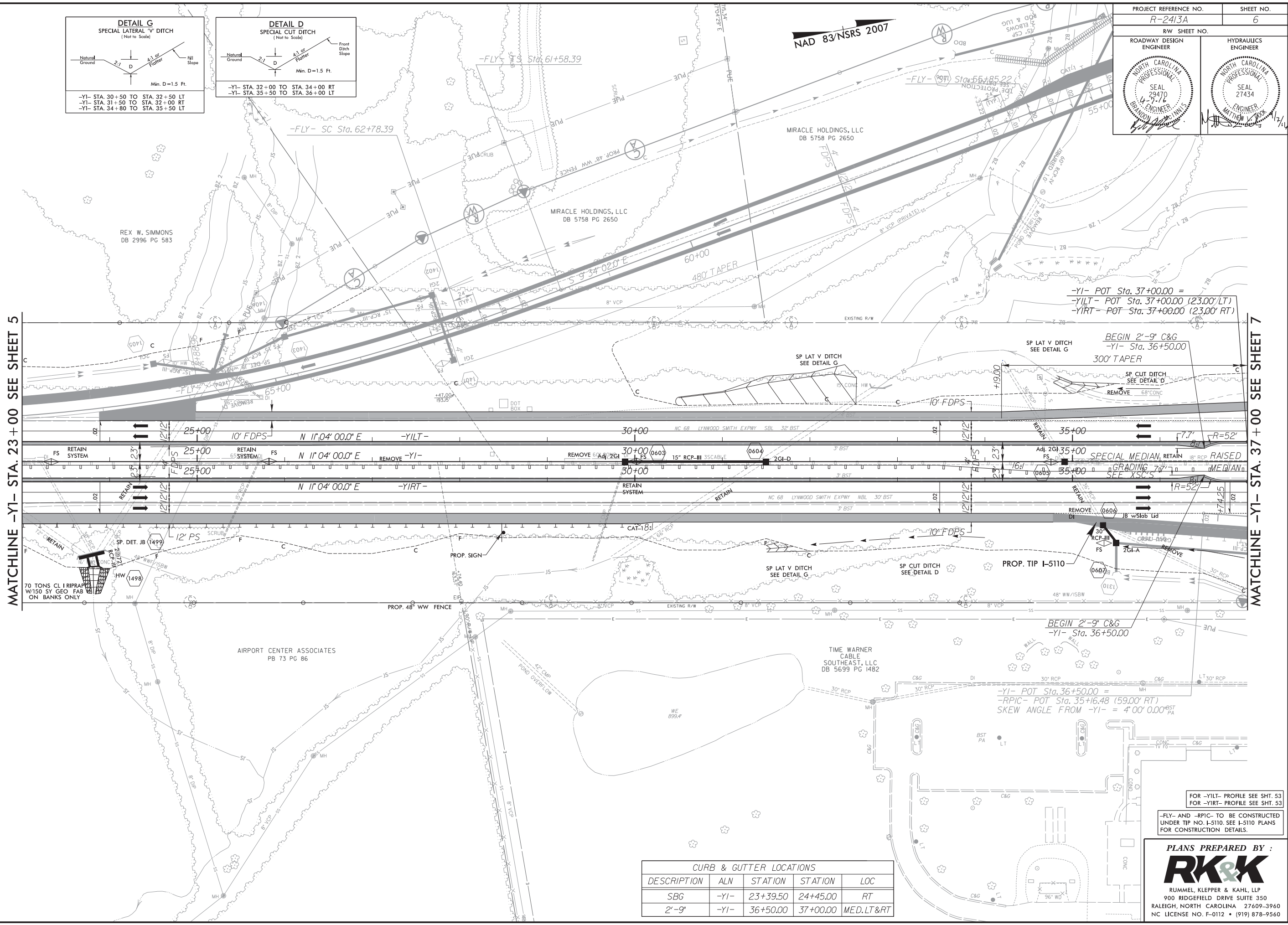


REVISIONS

CONST. REVISION - 05/04/2015 - REVISED SLOPE STAKES AND DITCH LOCATION FROM -YI- STA. 23+00.00 TO 25+50.00 LT.
 CONST. REVISION - 05/04/2015 - REVISED PROPERTY OWNER NAME TO TIME WARNER CABLE SOUTHEAST, LLC.
 CONST. REVISION - 07/01/2015 - ADDED GUARDRAIL FOR SIGN LOCATED AT -RPIC- STA. 34+50 LT.
 CONST. REVISION - 09/01/2015 - ADDED GUIDERAIL PROTECTION IN THE MEDIAN FOR SIGN LOCATED AT -YI- STA. 37+00.
 CONST. REVISION - 04/06/2016 - REMOVED RETAINING WALL AND ADDED PIPE EXTENSION AT -YI- STA. 23+40 RT.

MATCHLINE -YI- STA. 23+00 SEE SHEET 5

MATCHLINE -YI- STA. 37+00 SEE SHEET 7



CURB & GUTTER LOCATIONS				
DESCRIPTION	ALN	STATION	STATION	LOC
SBG	-YI-	23+39.50	24+45.00	RT
2'-9"	-YI-	36+50.00	37+00.00	MED. LT & RT

FOR -YILT- PROFILE SEE SHT. 53
 FOR -YIRT- PROFILE SEE SHT. 53

-FLY- AND -RPIC- TO BE CONSTRUCTED UNDER TIP NO. I-5110. SEE I-5110 PLANS FOR CONSTRUCTION DETAILS.

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

4/16/2016
 R:\cadd\proj\2413a_Rd\psh06.dgn