



Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

August 8, 2016

U. S. Army Corps of Engineers
Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

ATTN: Mr. Dave Bailey
NCDOT Coordinator

Subject: **Request for Modification to the Section 404 Individual Permit and Section 401 Water Quality Certification** for the proposed Greensboro Eastern Loop from US 70 Relocation to SR 2303 (Lawndale Drive), Guilford County, Division 7. WBS Element No. 34821.1.1, TIP Nos. U-2525B and U-2525C.

Reference: USACE Individual Permit Action ID SAW-2005-21386, dated April 15, 2014.
USACE Individual Permit Modification Action ID SAW-2005-21386, October 31, 2014.
USACE Individual Permit Modification Action ID SAW-2005-21386, December 4, 2014.
USACE Individual Permit Modification Action ID SAW-2005-21386, March 12, 2015.
USACE Individual Permit Modification Action ID SAW-2005-21386, July 24, 2015.
USACE Individual Permit Modification Action ID SAW-2005-21386, March 18, 2016.
NCDWR Project No. 20130918, Certification No. 3978, February 6, 2014.
NCDWR Project No. 20130918_v2, Modification to Certification No. 3978, June 24, 2014.
NCDWR Project No. 20130918_v3, Modification to Certification No. 3978, October 15, 2014.
NCDWR Project No. 20130918_v4, Modification to Certification No. 3978, December 11, 2014.
NCDWR Project No. 20130918_v5, Modification to Certification No. 3978, March 18, 2015.
NCDWR Project No. 20130918_v6, Modification to Certification No. 3978, July 21, 2015.
NCDWR Project No. 20130918_v7, Modification to Certification No. 3978, March 18, 2016.

Dear Sir:

The purpose of this letter is to request a modification to the United States Army Corps of Engineers (USACE) Section 404 Individual Permit and North Carolina Division of Water Resources Section 401 Certification for the above referenced project. The adjacent project to the east, U-2524D, will be letting in September 2016. There will be multiple noise walls constructed under U-2524D, two of which (noise walls 8 and 9) span both U-2524D and U-2525C and result in impacts to two jurisdictional resources. As such, the NCDOT is requesting approval for these activities. Please see the enclosed permit drawings and design plans for the above referenced project.

 Nothing ComparesSM

The above activities occur within the footprint of U-2525C. This section is currently not scheduled to let until July 2018. The remaining final impacts for this U-2525C will be permitted via phased modification prior to let for this section.

As stated in the original 2013 permit application, the preliminary surface water impacts for U-2525C are 12,646 linear feet of permanent stream impacts and 1.7 acres of pond impacts. The total preliminary wetland impacts for U-2525C are 2.4 acres. These impacts are already covered under the current Division of Mitigation Services (DMS) acceptance, therefore no additional mitigation is needed at this time. Once the final design is completed for the rest of U-2525C, the mitigation request will be revised as appropriate.

IMPACTS TO WATERS OF THE U.S.

Tables 1 and 2 summarize the impacts to jurisdictional water resources for the two permit sites impacted by the noise walls that span U-2524D and U-2525C. The remainder of the final impacts for U-2525C will be provided prior to the let date for that section. Site numbers correspond with the permit (hydraulic) drawings included in this application. The stream and wetland numbers correspond to the 2014 JD Appeals Maps. A brief description of each impact follows the tables.

Table 1 – U-2525C Partial Final Wetland Impacts*

Site	Wetland ID	Wetland Size (ac)	Permanent Fill in Wetlands (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Impacts Requiring Mitigation (ac)
11	WR	0.21	0.05	--	0.03	--	0.08
Total Impacts:			0.05	--	0.03	--	0.08**

* Wetland impacted is riparian

** Values are based on rounding, due to calculating totals with actual numbers to the thousandths

Table 2 – U-2525C Partial Final Stream Impacts

Site	Stream Name & Intermittent (I) or Perennial (P)	Stream ID ¹	Impact Type	Impact Length (linear feet)	Temporary Impacts (acres) (feet)	Mitigation Requirement ² (linear feet)
12	UT to Richland Creek (P)	SBA	Perm. Fill	284	--	USACE & DWR
			Bank Stabilization	24	--	DWR
			Temp. Fill	--	<0.01 (15')	--
Total Temporary Impacts:				--	<0.01 (15')	--
Total Perm. Impacts (Perm. Fill + Bank Stabilization):				308	--	--
Permanent Impacts Requiring DWR Mitigation:				308	--	--
Permanent Impacts Requiring USACE Mitigation:				284	--	--
Total Impacts Requiring Mitigation:				284	--	†

1 – As identified in the 2014 JD Appeals Map

2 – Mitigation for bank stabilization impacts required by DWR – not required by USACE

† – Final mitigation requirement will be up to the USACE and DWR

Permit Site 11: As a result of the new roadway slopes from the proposed bypass, there will be 0.05 acre of wetland fill and 0.03 acre of mechanized clearing in wetlands to WR.

Permit Site 12: A new 72" RCP will be installed to carry SBA under the proposed bypass. There will be 284 linear feet of permanent impacts, <0.01 acre (15 lf) of temporary impacts and 24 lf of bank stabilization to SBA associated with this activity.

REGULATORY APPROVALS

Section 404: Application is hereby made for a modification to the USACE Individual 404 Permit as required for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the N. C. Division of Water Resources.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please call Erin Cheely at (919) 707-6108.

Sincerely,



rs

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

cc:

NCDOT Permit Application Standard Distribution List

09.08/99

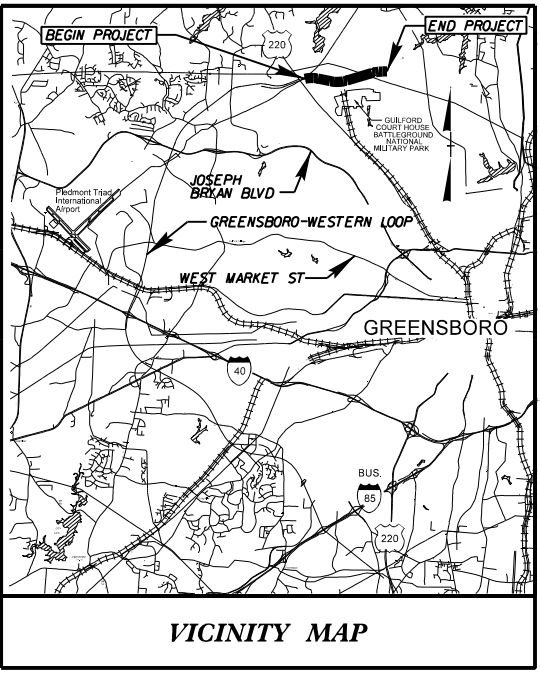
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS GUILFORD COUNTY

U-2525C Modification Drawings
Greensboro Eastern Loop from US 29 north of
Greensboro to SR 2303 (Lawndale Drive)
34821.1.1

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
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PERMIT DRAWINGS
SHEET 1 OF 8



TYPE OF WORK: GRADING, PAVING, CULVERTS, DRAINAGE,
STRUCTURES AND ITS

WETLAND & STREAM IMPACTS

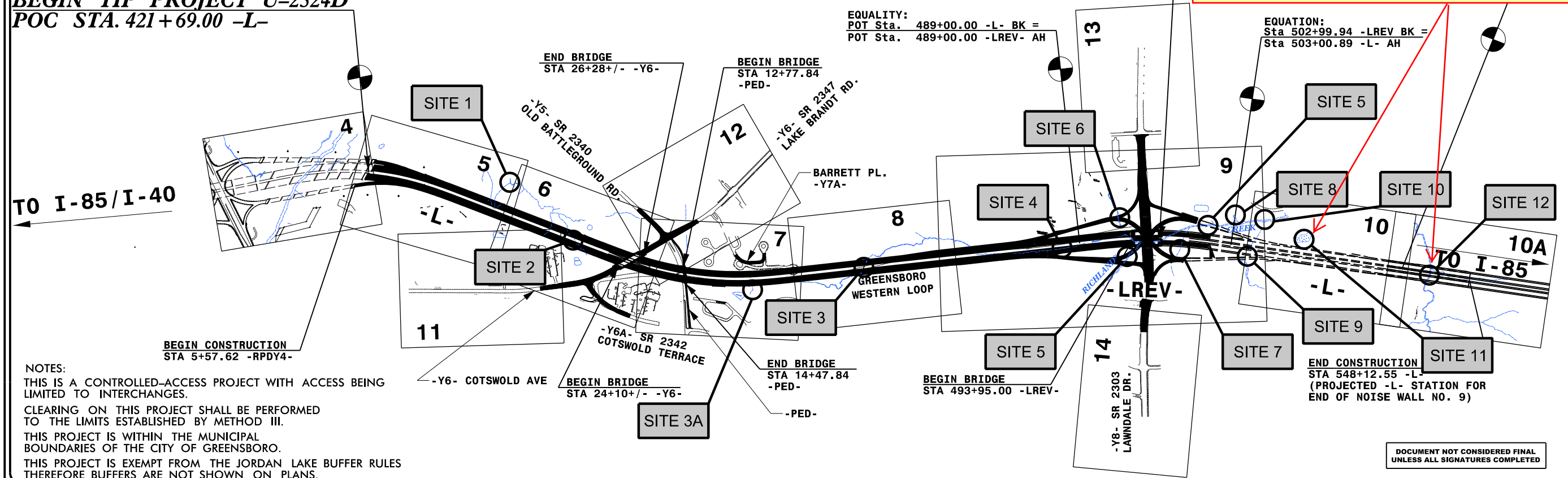
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N 871507.2766 E 1756411.5108

END TIP PROJECT U-2525C
POT STA 552+99.67 -L- AH.
N 871505.0126 E 1756411.6682

TIP PROJECT:

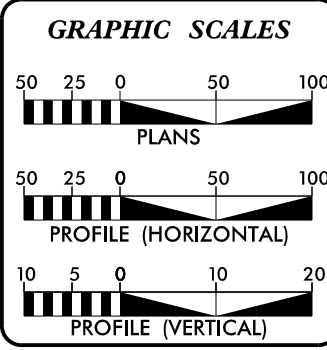
BEGIN TIP PROJECT U-2524D
POC STA. 421+69.00 -L-

U-2525C includes sites 11 and 12



NOTES:
THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF GREENSBORO.
THIS PROJECT IS EXEMPT FROM THE JORDAN LAKE BUFFER RULES THEREFORE BUFFERS ARE NOT SHOWN ON PLANS.

CONTRACT:



DESIGN DATA

ADT 2016	=	65,756
ADT 2036	=	98,793
K	=	10 %
D	=	60 %
T	=	14 % *
V	=	70 MPH
* TTST = 8% DUAL 6%		
FUNC CLASS = FREEWAY		
INTERSTATE TIER		

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT
LENGTH STRUCTURES TIP PROJECT
TOTAL LENGTH OF TIP PROJECT

NCDOT CONTACT:

REKHA PATEL, P.E. HYDRAULICS ENGINEER	TIM D. GOINS, P.E. PROJECT ENGINEER
DAVID GARRETT PROJECT DESIGN ENGINEER	

RIGHT OF WAY DATE: _____
LETTING DATE: _____

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGNATURE: _____ P.E.

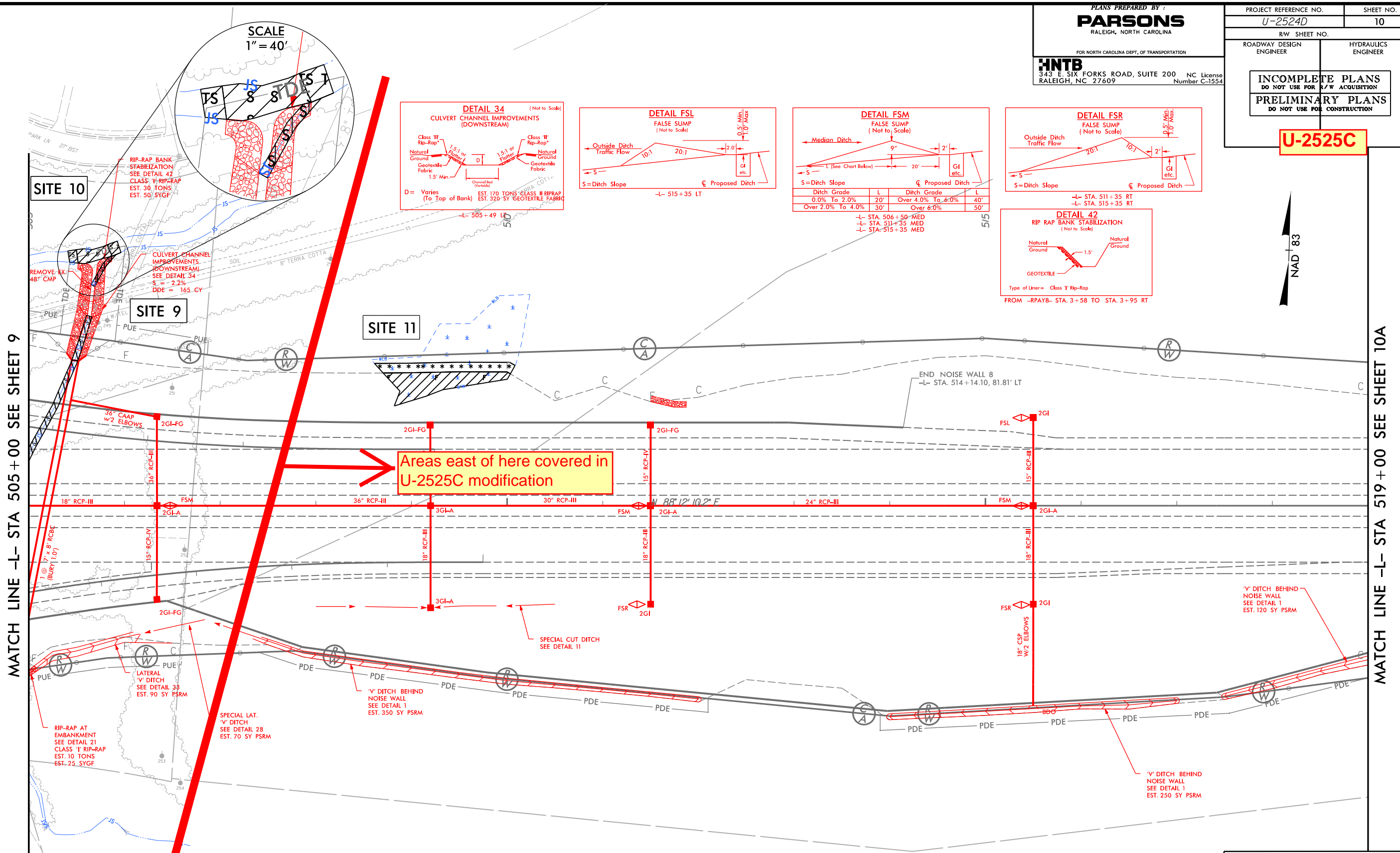
**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

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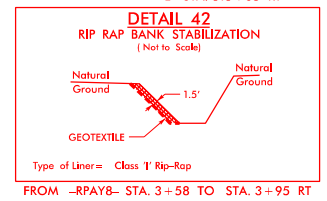
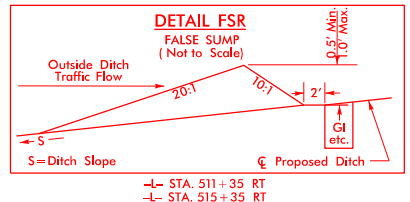
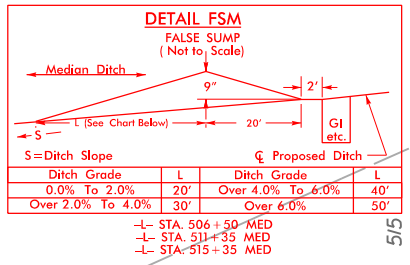
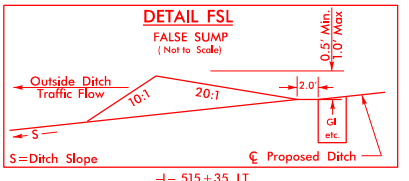
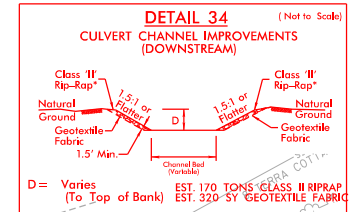
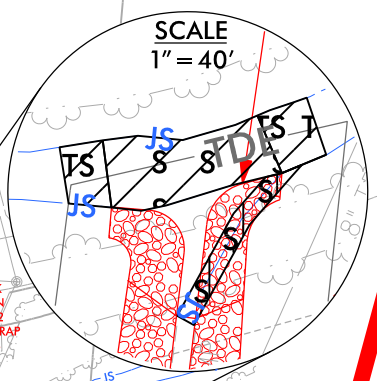
INCOMPLETE PLANS
DO NOT USE FOR A/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

U-2525C



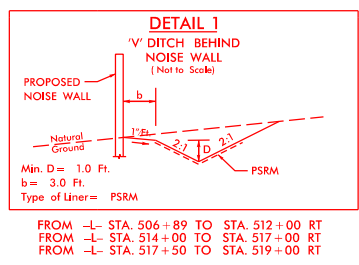
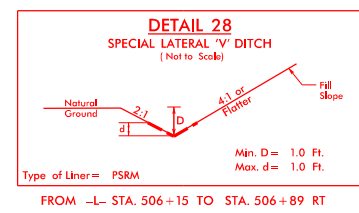
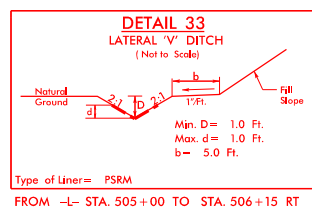
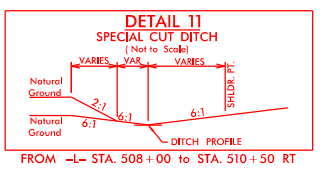
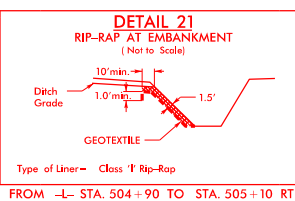
MATCH LINE -L- STA 505+00 SEE SHEET 9

MATCH LINE -L- STA 519+00 SEE SHEET 10A



Areas east of here covered in U-2525C modification

NOTE:
SEE SHEET 2B-2 FOR CURVE DATA
SEE SHEET 19 FOR -L- PROFILE
SEE SHEET 24 FOR RPAY8 PROFILE
SEE SHEET 27 FOR RPDY8 PROFILE



PERMIT DRAWINGS
SHEET 2 of 8

LEGEND

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING

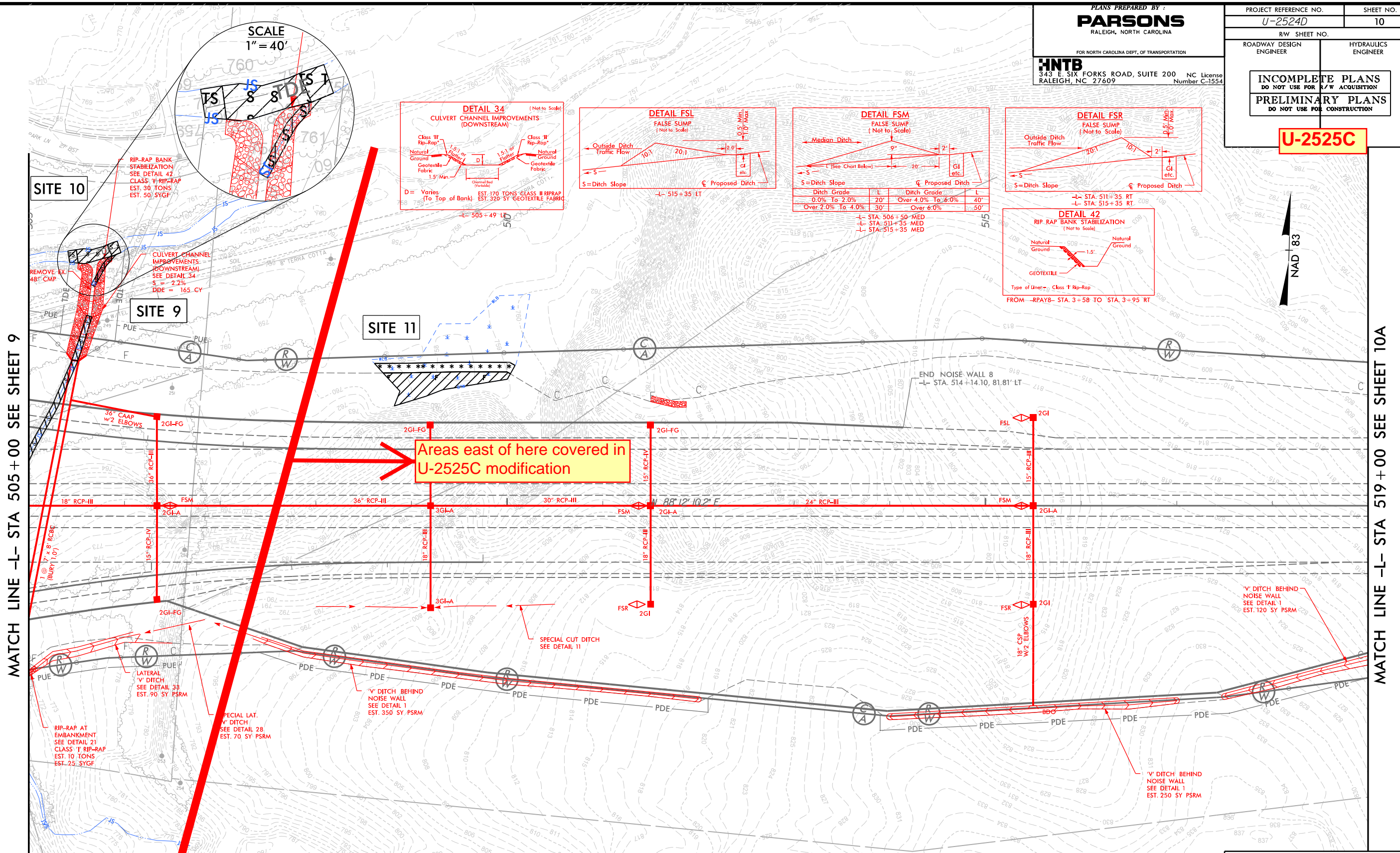
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INCOMPLETE PLANS
 DO NOT USE FOR A/W ACQUISITION
PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

U-2525C

SCALE
 1" = 40'



SITE 10

SITE 9

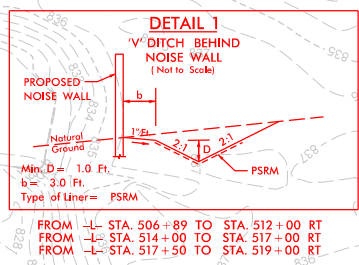
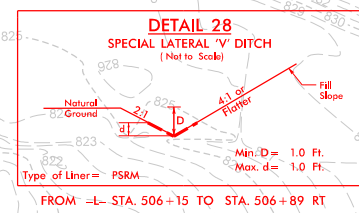
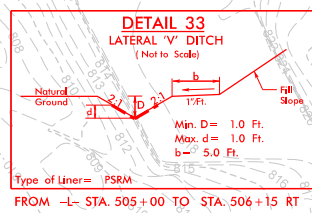
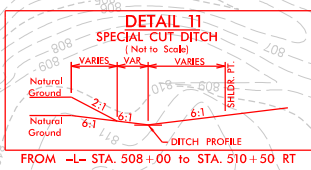
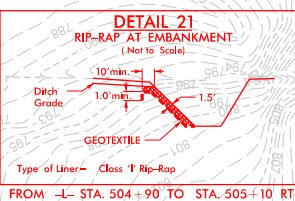
SITE 11

MATCH LINE -L- STA 505+00 SEE SHEET 9

MATCH LINE -L- STA 519+00 SEE SHEET 10A

Areas east of here covered in U-2525C modification

NOTE:
 SEE SHEET 2B-2 FOR CURVE DATA
 SEE SHEET 19 FOR -L- PROFILE
 SEE SHEET 24 FOR RPY8 PROFILE
 SEE SHEET 27 FOR RPDY8 PROFILE



LEGEND

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING

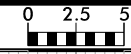
PERMIT DRAWINGS
 SHEET 3 of 8

NAD 83

REVISIONS

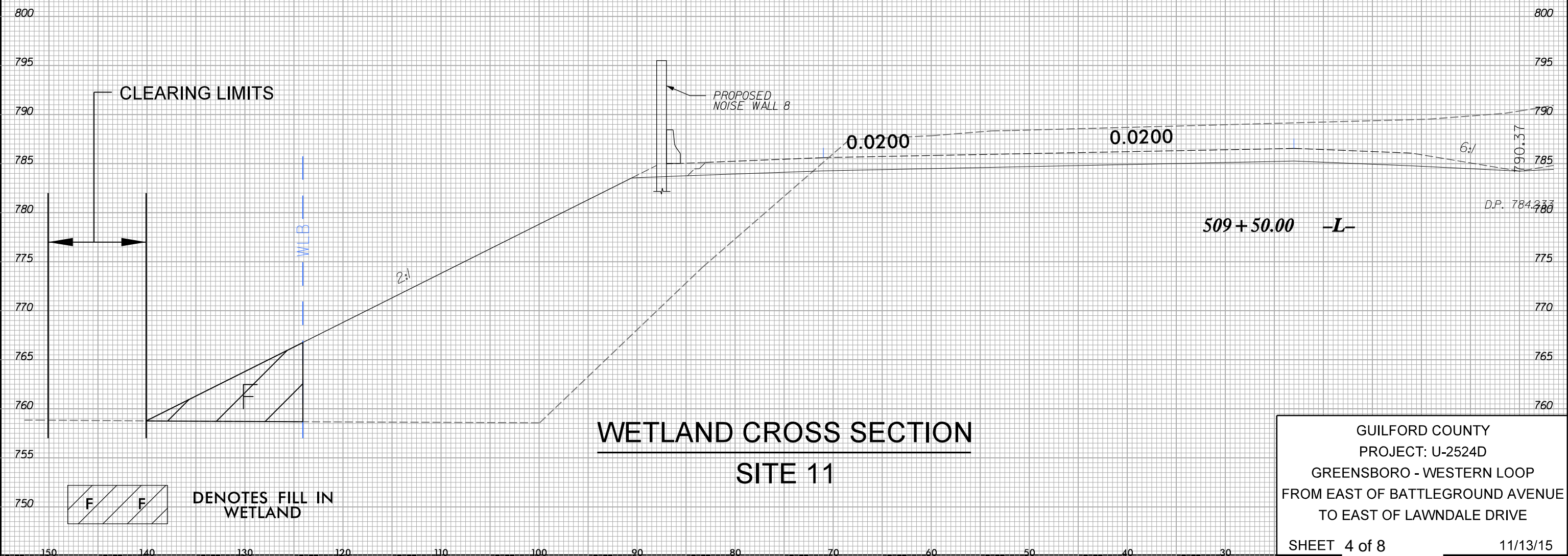
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U-2525C

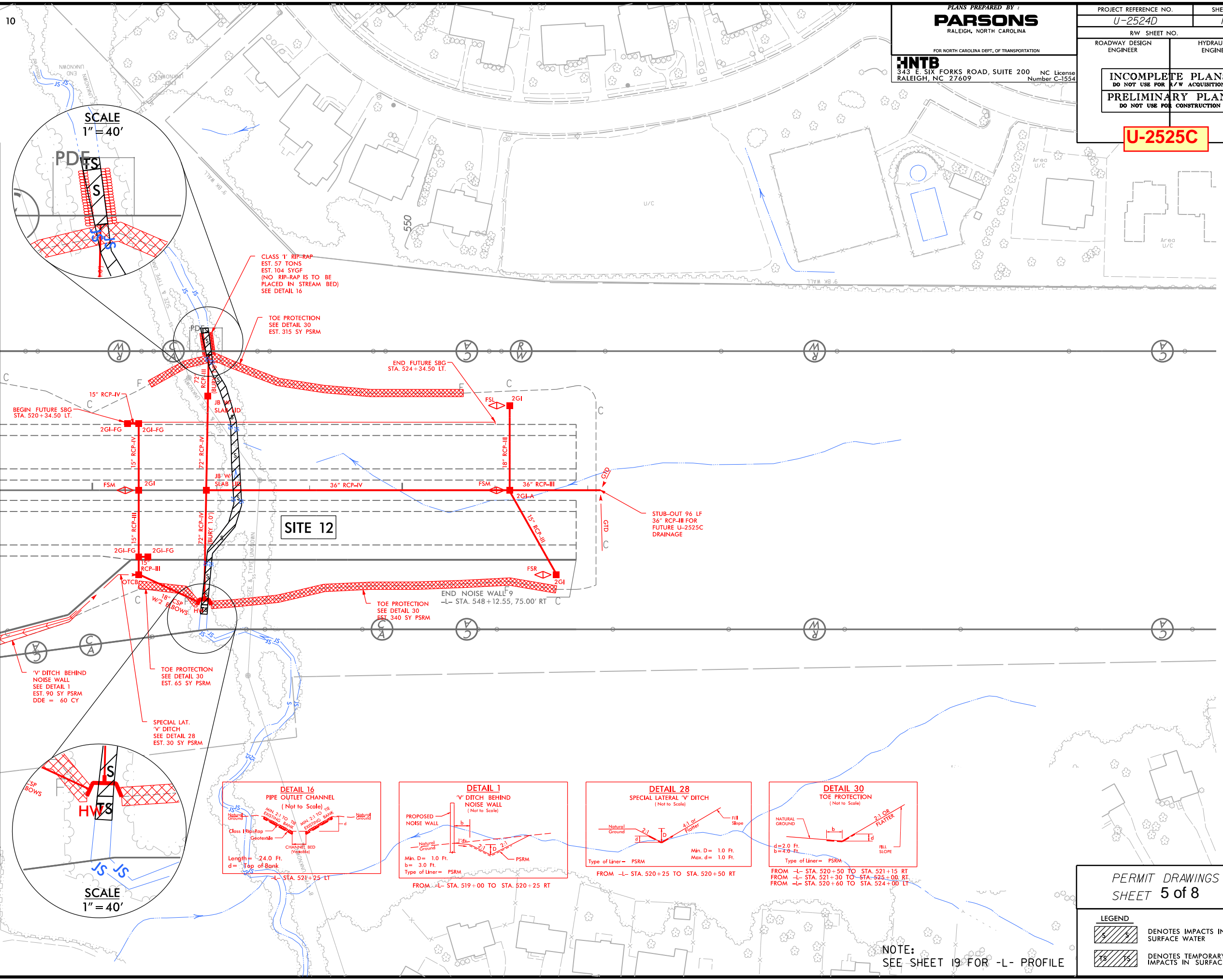
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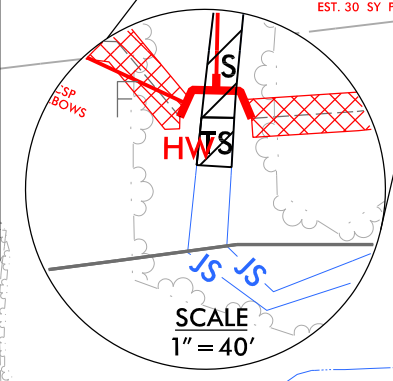
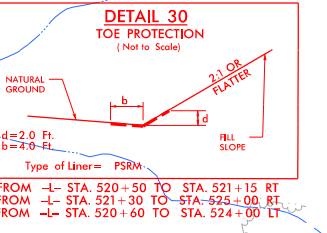
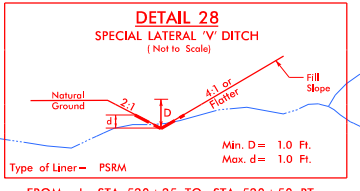
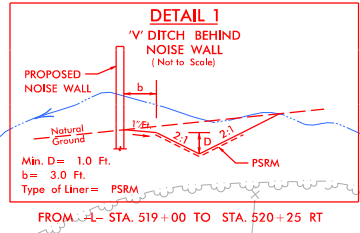
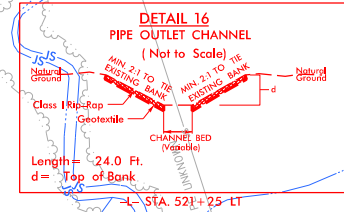
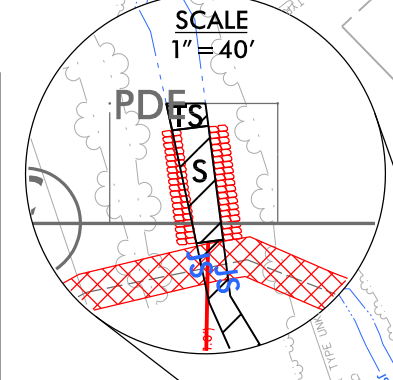
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GUILFORD COUNTY
 PROJECT: U-2524D
 GREENSBORO - WESTERN LOOP
 FROM EAST OF BATTLEGROUND AVENUE
 TO EAST OF LAWDALE DRIVE
 SHEET 4 of 8 11/13/15

U-2525C



MATCH LINE -L- STA 519 + 00 SEE SHEET 10



PERMIT DRAWINGS
SHEET 5 of 8

LEGEND

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

NOTE:
SEE SHEET 19 FOR -L- PROFILE

REVISIONS

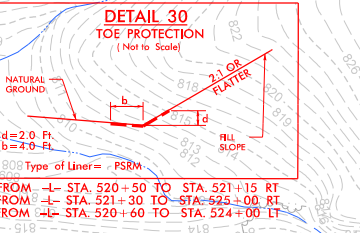
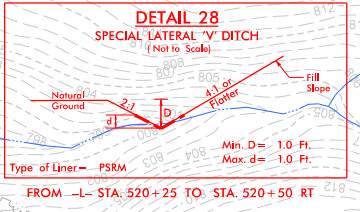
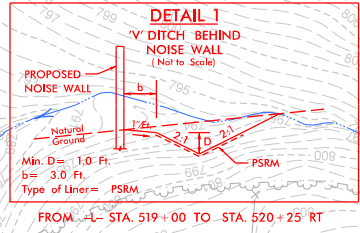
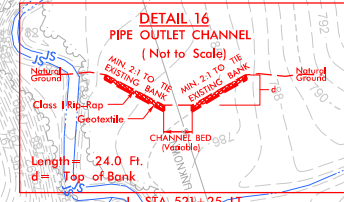
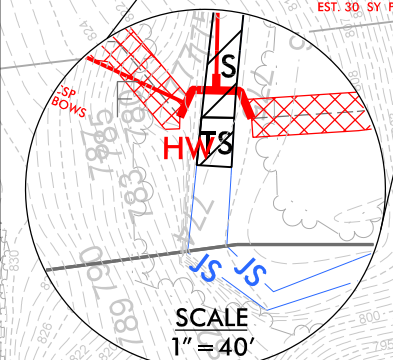
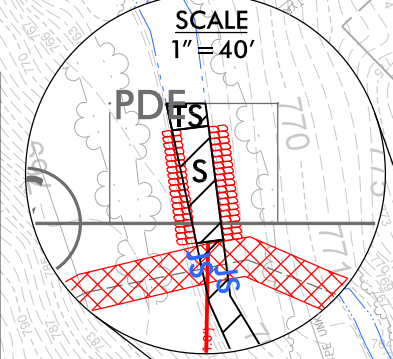
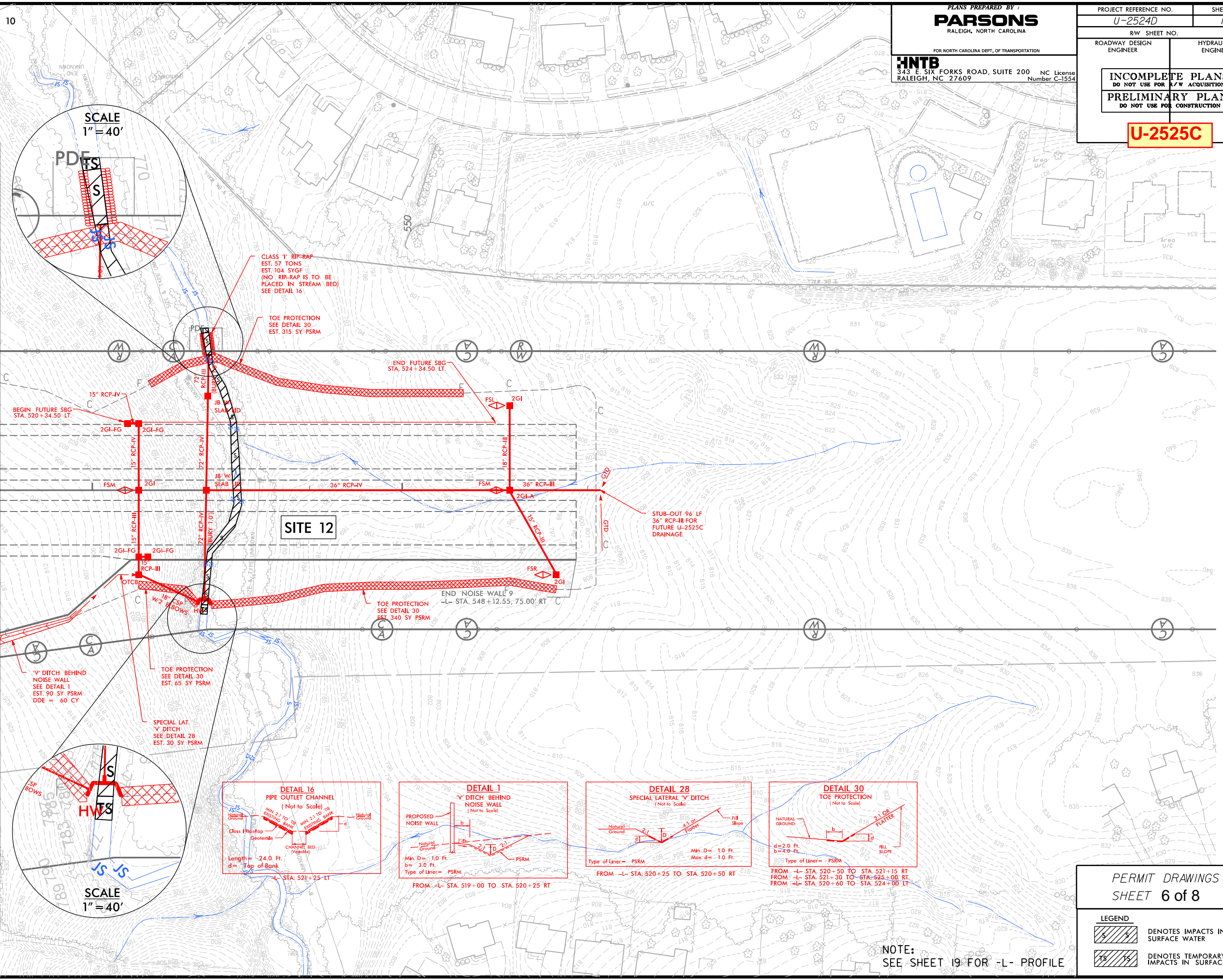
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INCOMPLETE PLANS
 DO NOT USE FOR ACQUISITION
PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

U-2525C

8/17/99



MATCH LINE -L- STA 519 + 00 SEE SHEET 10

REVISIONS



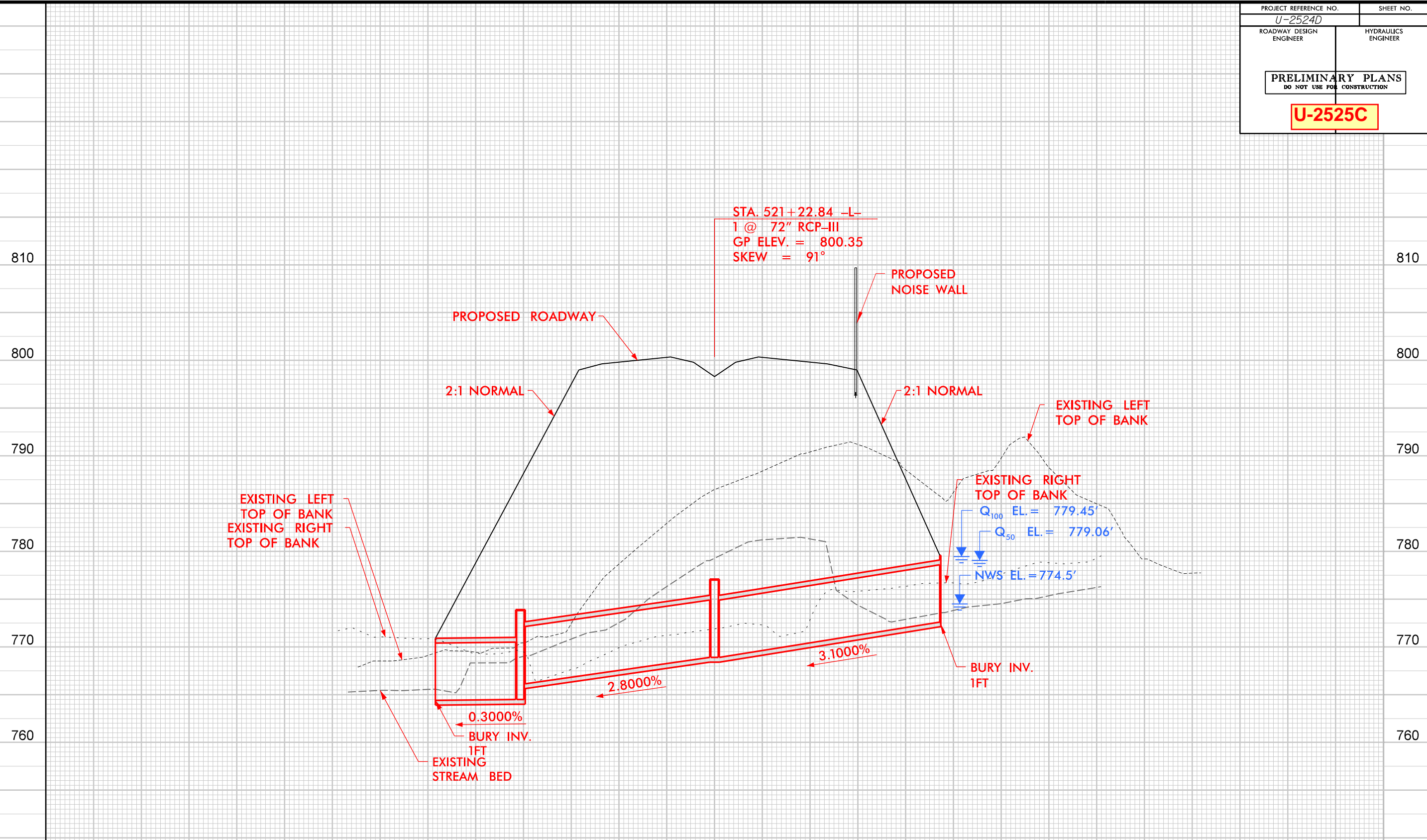
PERMIT DRAWINGS
 SHEET 6 of 8

LEGEND

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

NOTE:
 SEE SHEET 19 FOR -L- PROFILE

U-2524D-10A-C.dgn



PROFILE ALONG STRUCTURE

SITE 12

SCALE
1"=50' HORIZONTAL
1"=10' VERTICAL

GUILFORD COUNTY
PROJECT: U-2524D
GREENSBORO - WESTERN LOOP
FROM EAST OF BATTLEGROUND AVENUE
TO EAST OF LAWDALE DRIVE
SHEET 7 of 8
11/13/15

5/14/99

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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)
11	- L- 508+61 - 510+08	Roadway Fill	0.05			0.03						
12	- L- 521+16 - 521+61	72"RCP						0.05	< 0.01	284	10	
		Bank Stabilization						< 0.01	< 0.01	24	5	
TOTALS*:			0.05			0.03		0.05	<0.01	308	15	0

*Rounded totals are sum of actual impacts

NOTES:
 - Sites 11 and 12 will be included in the construction of U-2524D due to construction of noise walls 8 and 9 which span these two TIPs

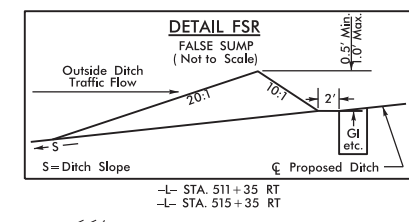
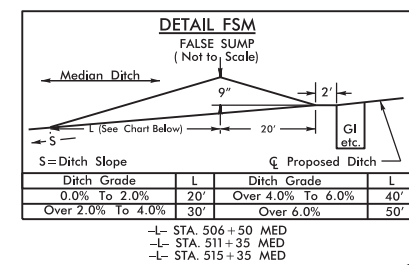
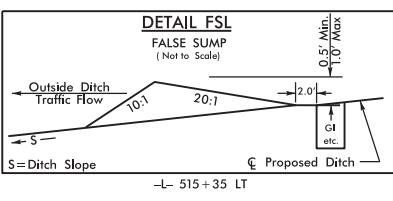
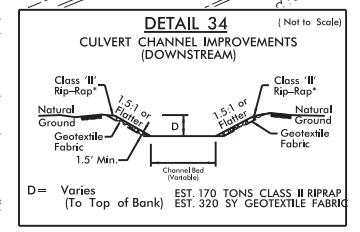
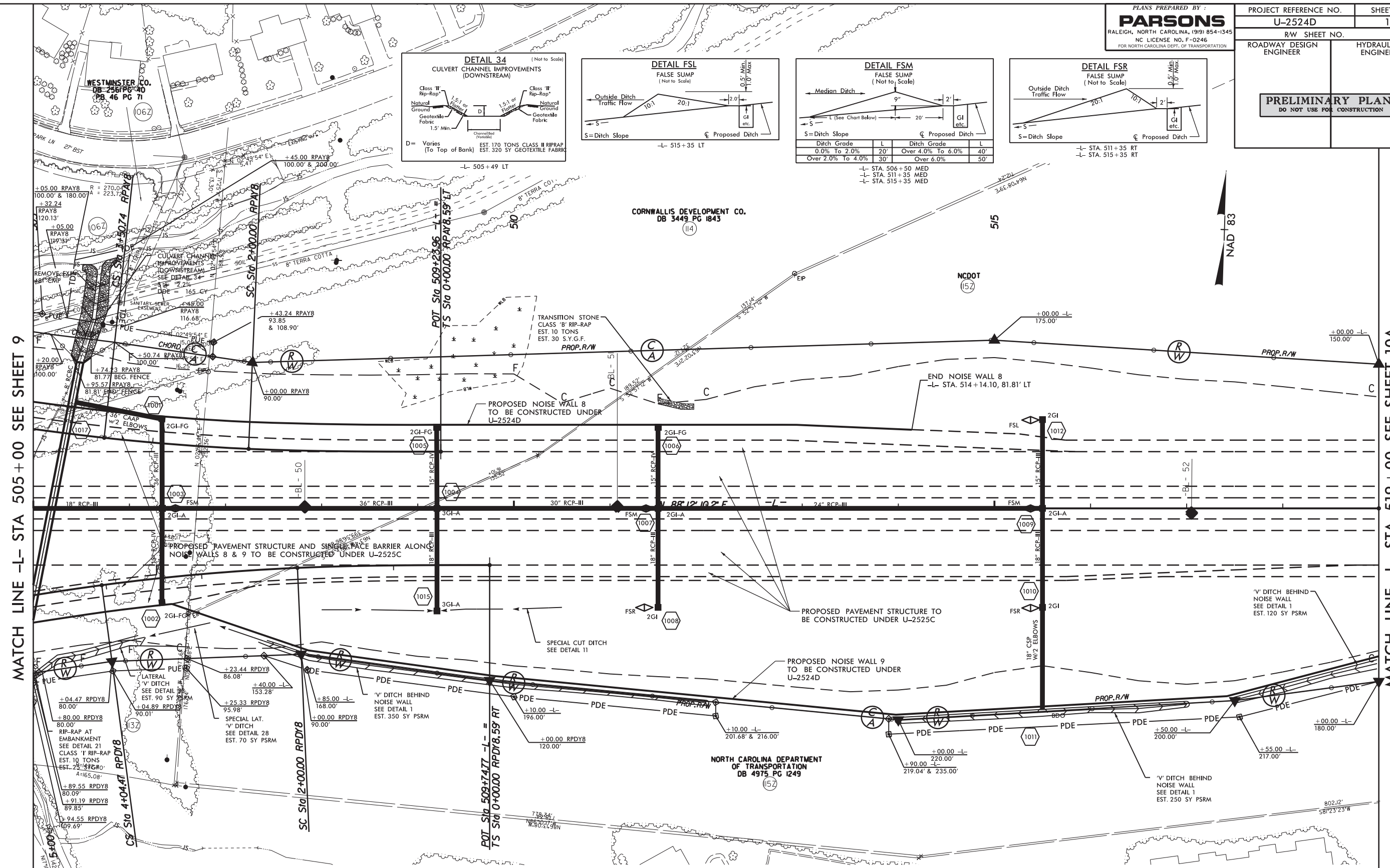
NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 Guilford
 U-2525C
 34821.1.1

10/19/11 RW REVISION: ADDED PUE ALONG RPAY8 RT.
 4/21/13 RW REVISION: ADDED PUE ALONG RPAY8 RT. (PARCEL 106) AND RPDY8 LT (PARCEL 113).
 11/3/15 RW REVISION: ADDED PARCEL NOS. 106Z, 113Z, & 115Z; REVISED PDE & PUE AND ADDED PERMANENT EASEMENT MONUMENTS AT -RPAY8- 4+05, 119.31' & -RPAY8- 3+45, 116.68' ON PARCEL 106Z; ADDED PERMANENT EASEMENT MONUMENT AT -RPAY8- 2+43.24, 93.85' ON PARCEL 114; ADDED PUE ON PARCELS 100Z & 114. (N)
 2/3/16 - RW REVISION: CORRECTED PUE & IDE BETWEEN -RPAY8- 2+43.24 & 4+32.24 ON PARCELS 100Z & 114. (N)

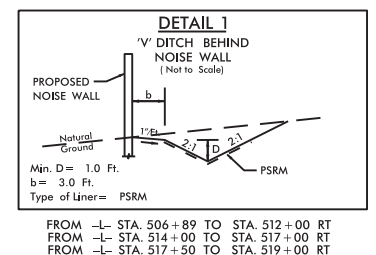
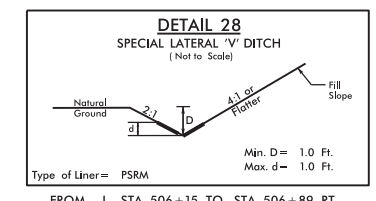
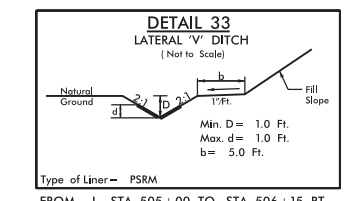
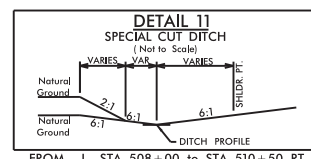
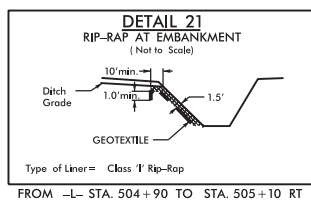
REVISIONS

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 \$\$\$SERNAME\$\$\$



MATCH LINE -L- STA 505+00 SEE SHEET 9

MATCH LINE -L- STA 519+00 SEE SHEET 10A

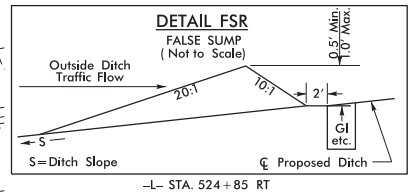
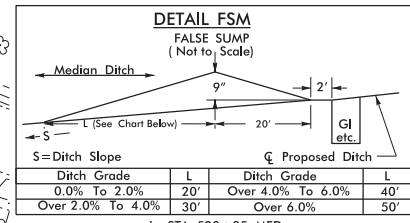
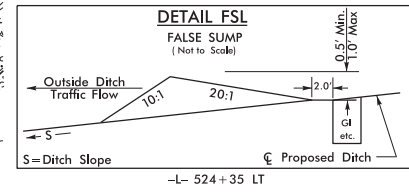


NOTE:
 SEE SHEET 2B-2 FOR CURVE DATA
 SEE SHEET 18 & 19 FOR -L- PROFILE
 SEE SHEET 24 FOR RPAY8 PROFILE
 SEE SHEET 27 FOR RPDY8 PROFILE

8/17/99

PLANS PREPARED BY:
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO. U-2524D	SHEET NO. 10A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



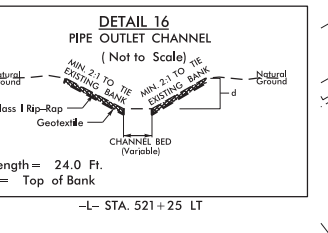
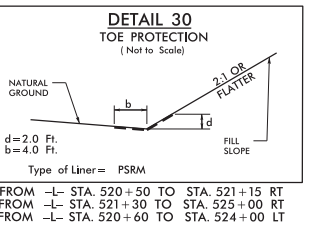
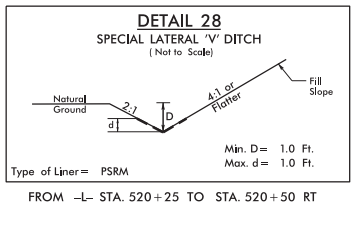
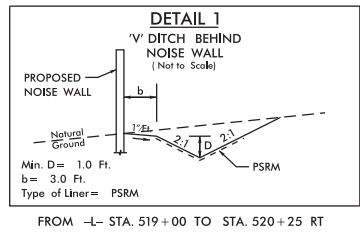
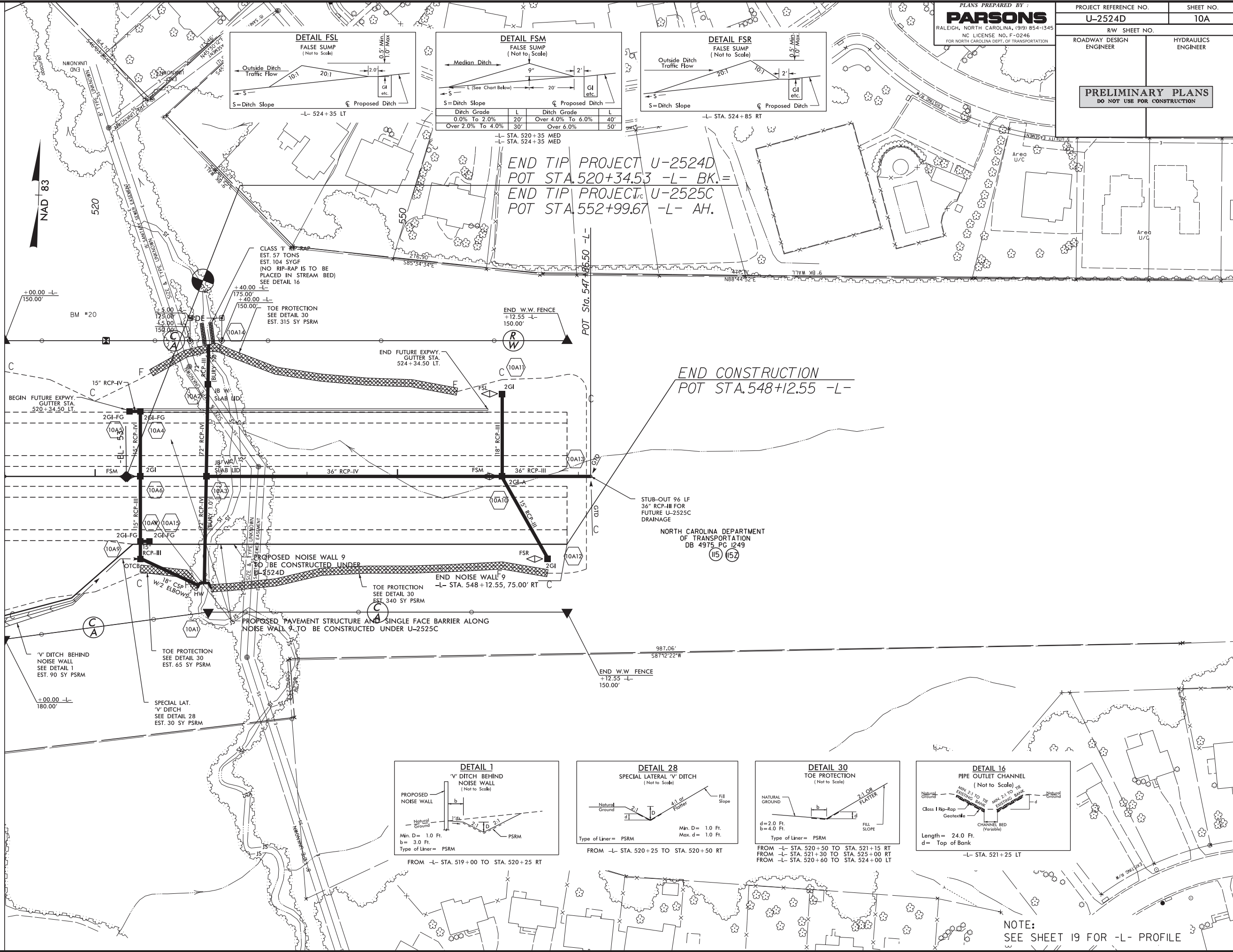
END TIP PROJECT U-2524D
POT STA. 520+34.53 -L- BK.=
END TIP PROJECT U-2525C
POT STA. 552+99.67 -L- AH.

MATCH LINE -L- STA 519+00 SEE SHEET 10

END CONSTRUCTION
POT STA. 548+12.55 -L-

REVISIONS
11/2/15 RW REVISION: ADDED PARCEL NO. 115Z; ADDED RW AND PDE ON PARCEL 115Z. (DBG)

09-NOV-2015 11:44
R:\Roadway\Proj\U2524D_RDV_PSH_10A.dgn
SUBSTANTIAL



NOTE:
SEE SHEET 19 FOR -L- PROFILE