



DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

January 29, 2020

Regulatory Division

Action ID No. SAW-2017-02112

Mr. Brett Abernathy, PLS
North Carolina Department of Transportation
Division 9
375 Silas Creek Parkway
Winston-Salem, North Carolina 27127

Dear Mr. Abernathy:

Reference the Department of the Army (DA) permit issued on January 22, 2018, to the North Carolina Department of Transportation, (NCDOT) for impacts associated with the new location project identified as U-2579 C, Phase 2 and U-2579 D, E, & F. The project is a 6.95 miles, six-lane, divided facility, extending east from US 52 to US 311, near Winston Salem, Forsyth County, North Carolina. Coordinates (in decimal degrees) for the site are 36.1788° N, -80.2166° W. The project area contains unnamed tributaries to Mill Creek, Mill Creek, Trick-Um Creek, unnamed tributaries to Trick-Um Creek, an unnamed tributary to Ogburn Branch, Buffalo Creek, Rough Fork, unnamed tributaries to Rough Fork, unnamed tributaries to Frazier Creek, and sixteen (16) wetland areas in the Yadkin & Roanoke River Basins (8-Digit Cataloging Units 03040101 and 03010103, respectively). Also reference the North Carolina Department of Environmental Quality Water Quality Certification # 004131, dated December 21, 2017.

On October 17, 2019, the U.S. Army Corps of Engineers (Corps) received a request from NCDOT to modify the standard permit for the U-2579 DEF project to include an additional 19 linear feet of permanent stream channel impact, and an additional seven (7) linear feet of bank stabilization. The modification request stated the additional impacts are over two (2) permit sites, Sites 23 and 26, in the Yadkin River Basin. The additional permanent impacts require 13 linear feet less of temporary impacts. There are no changes to wetland impacts. The total waters of the U.S., including wetland impacts, for the U-2579 DEF project are: 12,080 linear feet of permanent stream impacts, of which 405 linear feet are bank stabilization, 595 linear feet of temporary

stream impacts, 1.66 acres of permanent wetland impacts, no temporary wetland impacts, and no hand clearing in wetlands.

The Corps has completed the evaluation of your request and has determined that it is appropriate and reasonable, and no public notice is required for this modification. Therefore, the permit is modified as requested and as shown on the enclosed revised permit drawings, Prepared by HDR Engineering Inc. and STV Engineers, Inc., Sheets 1-34, dated September 16, 2019.

For your information, the following special conditions from the original authorization have been updated to include the new compensatory mitigation requirements and the new modified plan set:

1. All work authorized by this permit shall be performed in strict compliance with the attached plans, Sheets 1-34, dated September 16, 2019, which are part of this permit. The Permittee shall ensure the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the U.S. Army Corps of Engineers (Corps) prior to any active construction in waters or wetlands.

25. In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit.

The North Carolina Department of Environmental Quality issued a modified Section 401 Water Quality Certification (WQC) for this modification on November 14, 2019 (WAC004131). Conditions of the 401 WQC are also conditions of this Corps standard permit.

This correspondence contains a proffered permit for the above described site. If you object to this decision, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this decision you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division
Attn: Nicholle Braspennickx
69 Darlington Avenue
Wilmington, North Carolina 28403

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by March 30, 2020.

It is not necessary to submit an RFA form to the Division Office if you do not object to the decision in contained in this correspondence.

All other conditions of the permit, including the permit expiration date of December 31, 2028, remain in effect as written. Should you have any questions, contact Ms. Nicholle Braspennickx, Charlotte Regulatory Office, via email at Nicholle.M.Braspennickx@usace.army.mil or by telephone at (704) 510-0162.

FOR THE COMMANDER



Monte Matthews
Lead Project Manager
Wilmington District

Enclosures

Electronic Copies Furnished with Enclosures:

Ms. Amy Euliss
North Carolina Department of Transportation
Division 9
375 Silas Creek Parkway
Winston-Salem, North Carolina 27127

Electronic Copies Furnished without Enclosures:

Mr. Dave Wanucha
North Carolina Department of Environmental Quality
Division of Water Resources
450 West Hanes Mill Road, Suite 300
Winston-Salem, North Carolina 27105

Ms. Claire Ellwanger
U.S. Fish and Wildlife Services
Asheville Ecological Service Field Office
160 Zillicoa Street
Asheville, North Carolina 28801

Mr. Todd Bowers
Oceans, Wetlands and Streams Protection Branch
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8931

Ms. Marla Chambers
Western NCDOT Permit Coordinator
North Carolina Wildlife Resources Commission
206 Charter Street
Albemarle, North Carolina 28001


SEE SHEET 6A

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

STV 100 Years STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

FLATIRON 

25 12.5 0 25 50
GRAPHIC SCALE

SITE 5
Rough Fork
(ES-S3)

ES-W50

SITE 5A

ES-W45

Rough Fork
(ES-S3)

SITE 5

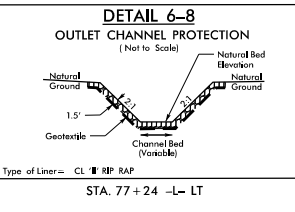
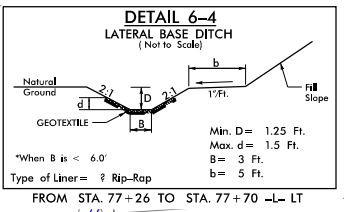
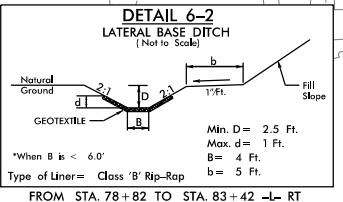
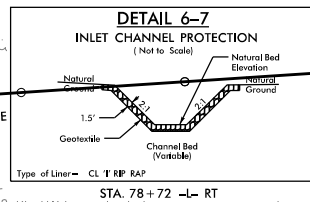
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-YIRPA-
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



MATCHLINE -L- STA 71+50
SEE SHEET 5

-YIRPD-
STA 19+75
SEE SHEET 5

MATCHLINE -L- STA 83+50
SEE SHEET 7



LEGEND

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-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLAND

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 REVISIONS

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 REVISIONS

PROJECT REFERENCE NO. U-2579D, E & F		SHEET NO. 6	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

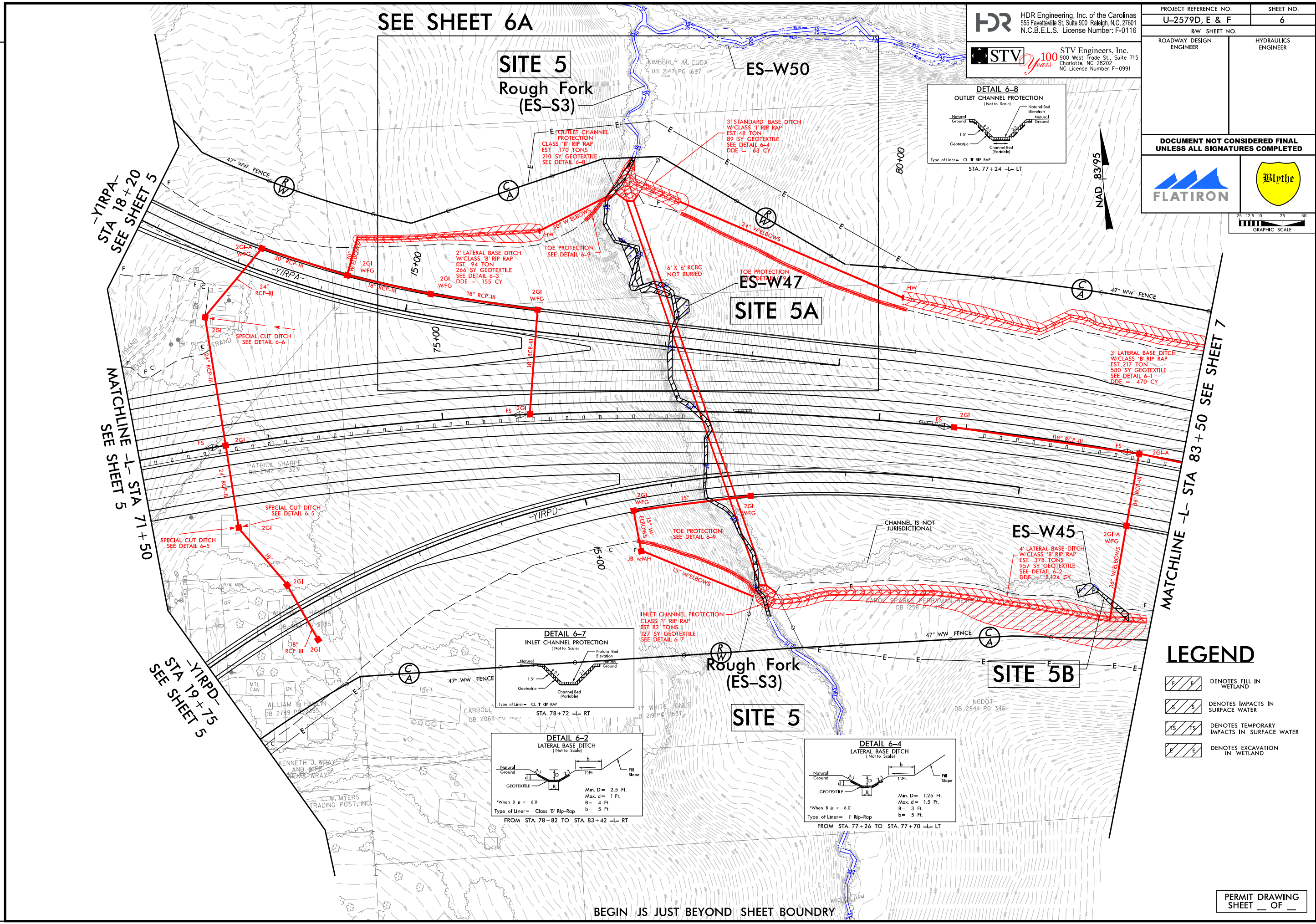
STV 100 Years STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

FLATIRON 

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

NAD 83/95

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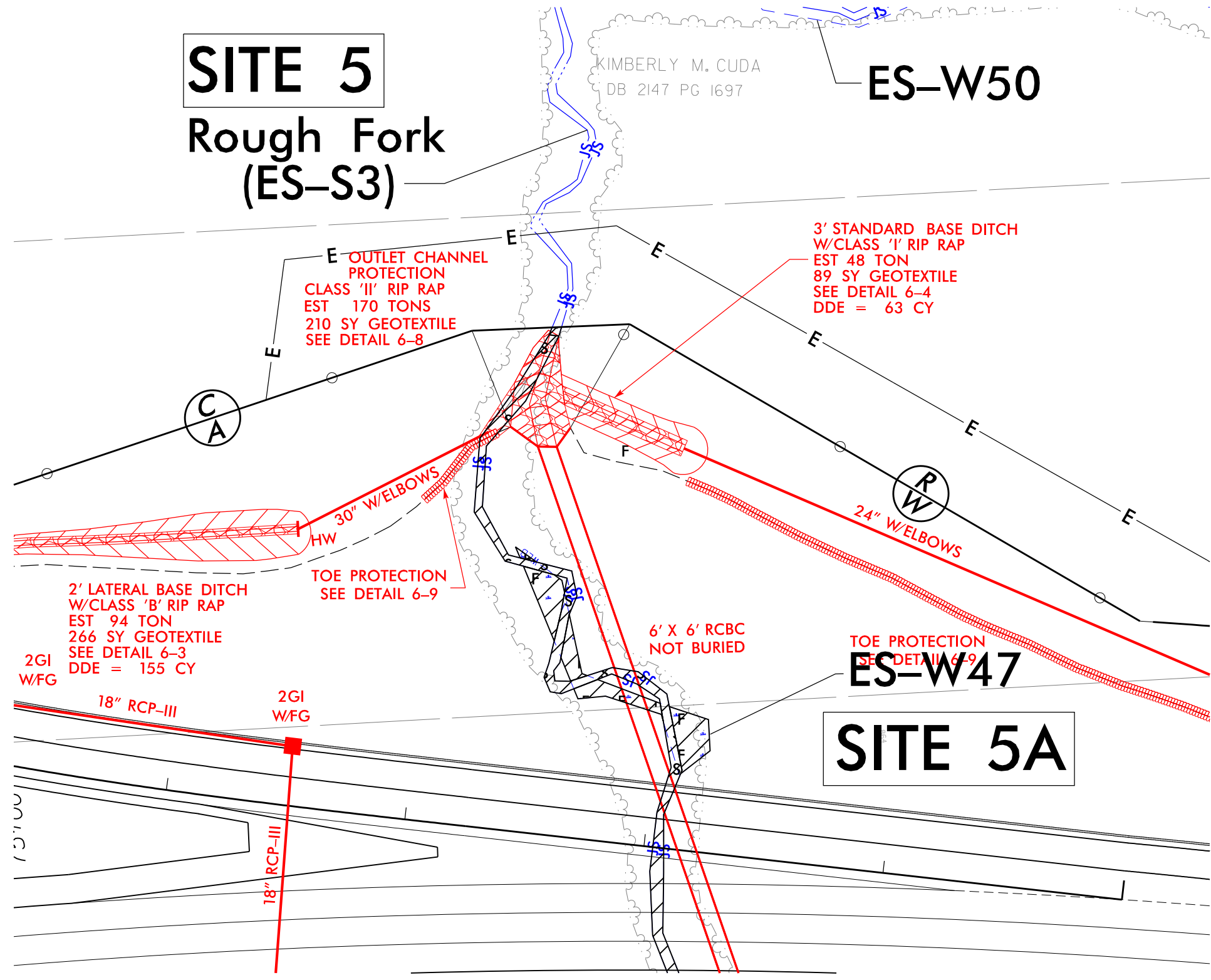


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SITE 5
Rough Fork
(ES-S3)

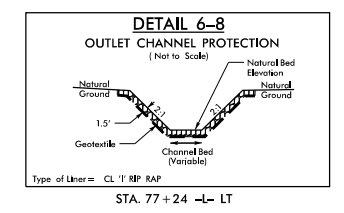
KIMBERLY M. CUDDA
 DB 2147 PG 1697

ES-W50



LEGEND

- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING
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 REVISIONS

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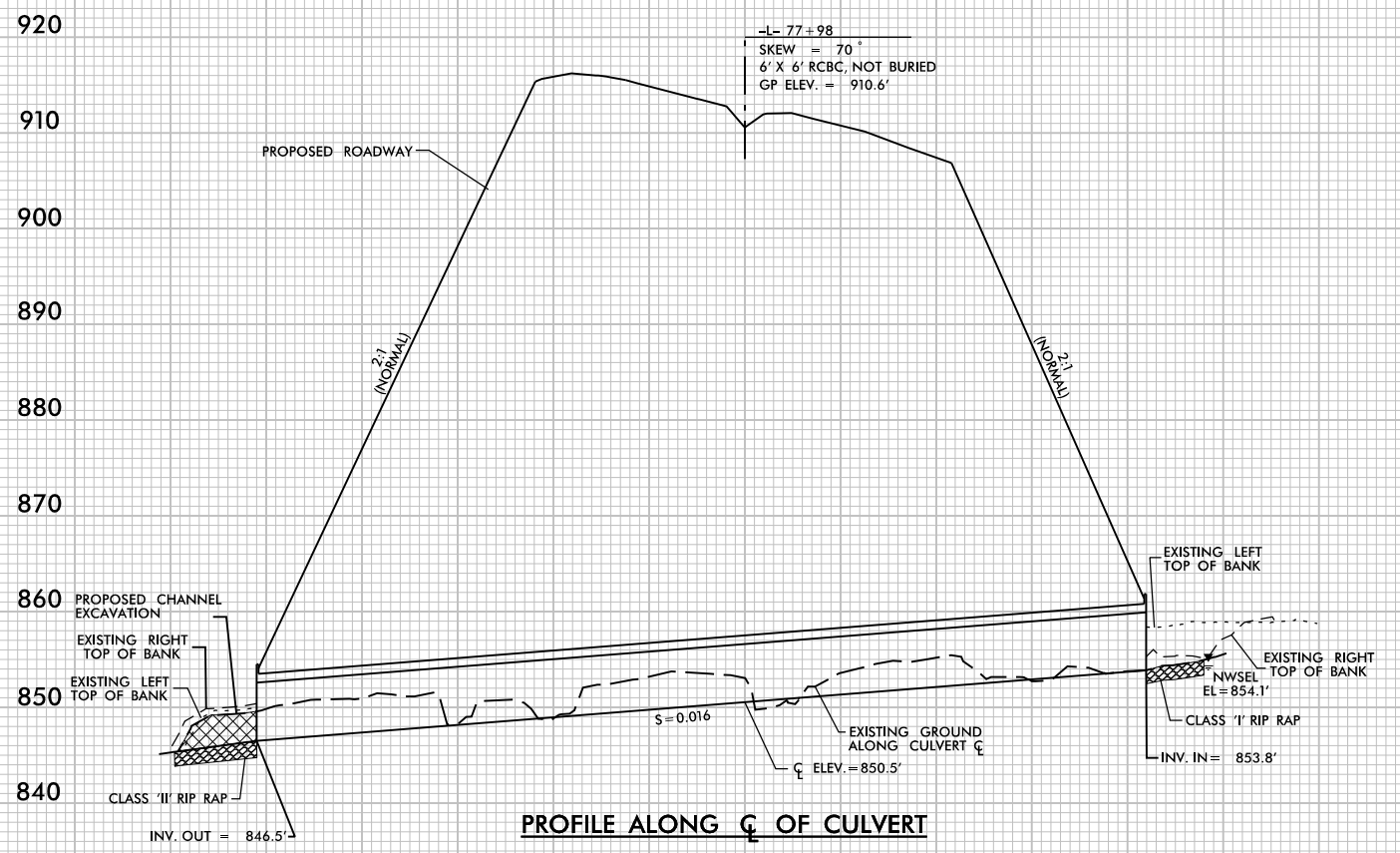
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
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 1" = 100' HORIZONTAL
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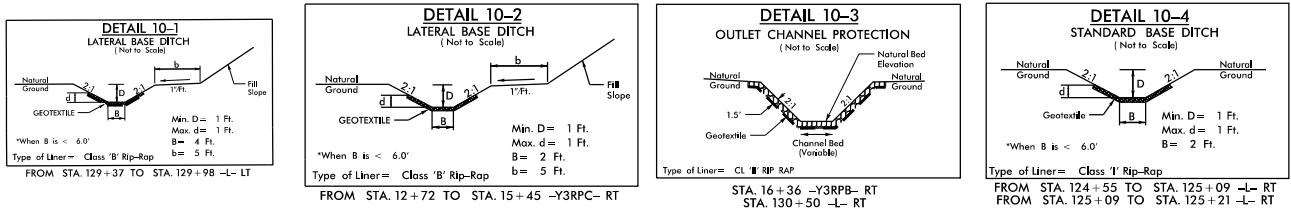
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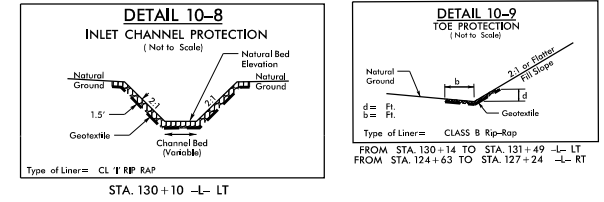
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PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



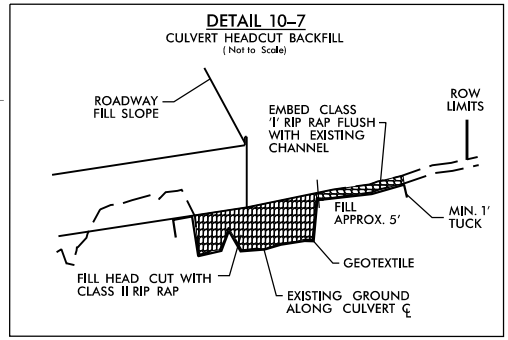
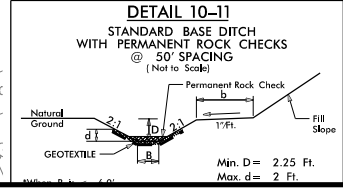
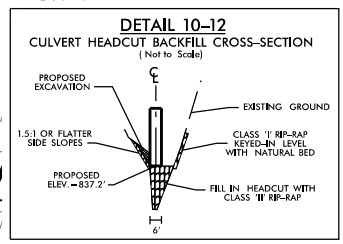
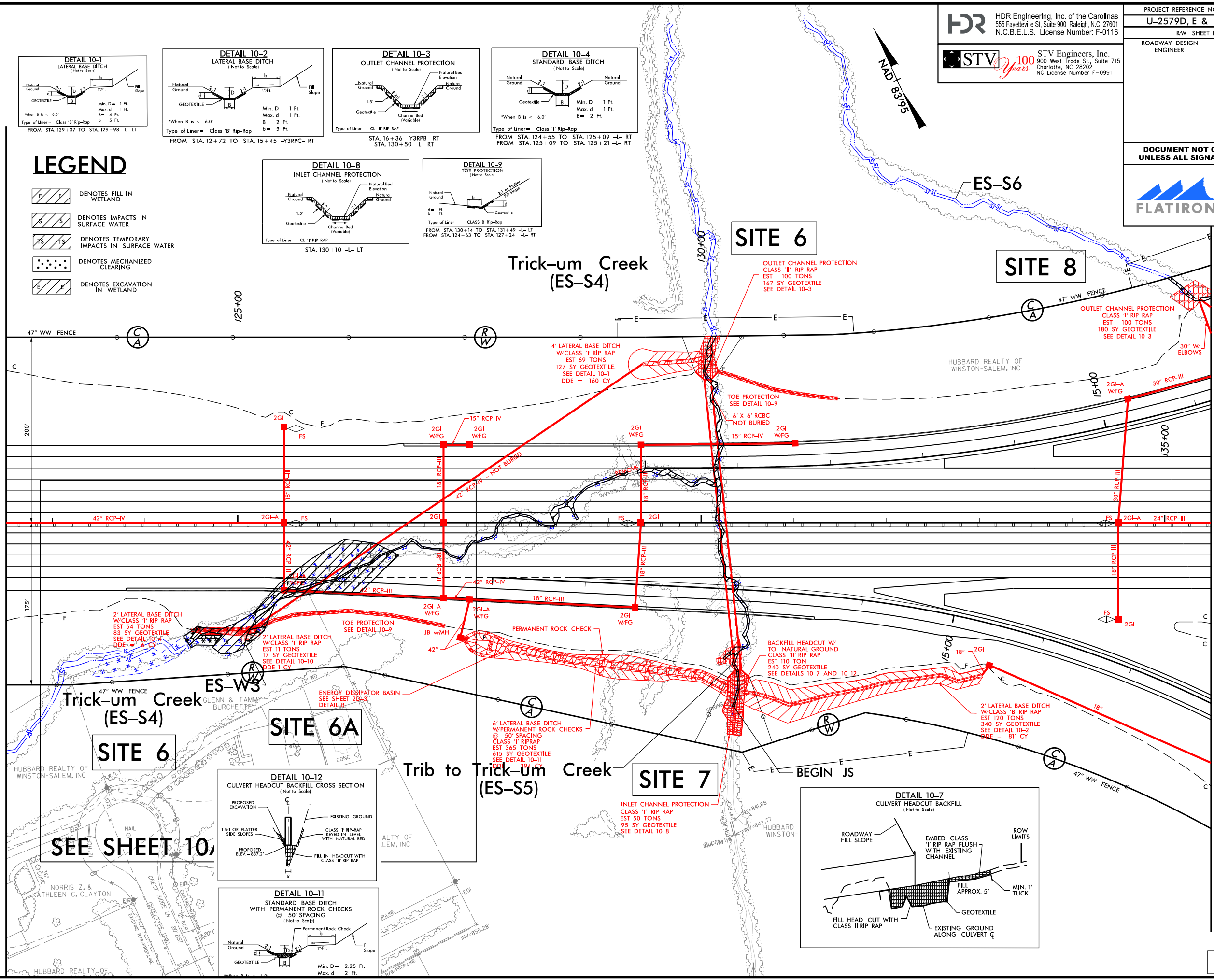
LEGEND

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



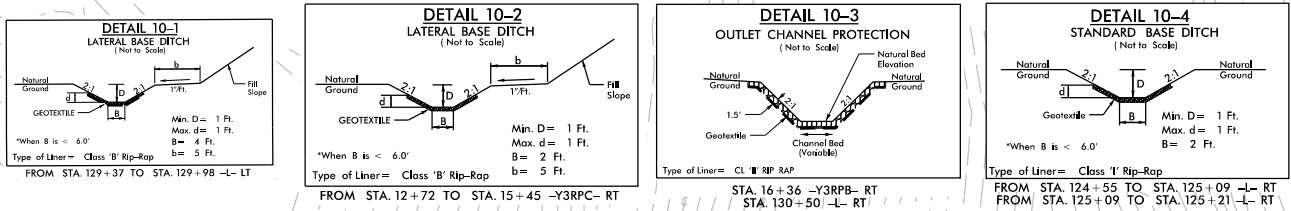
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MATCHLINE -L- STA 135 + 50 SEE SHEET 11



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PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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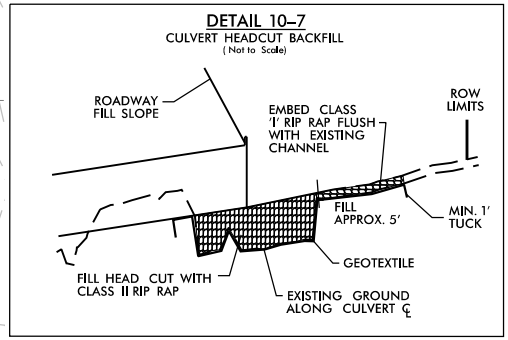
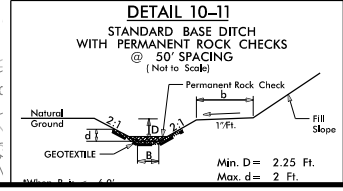
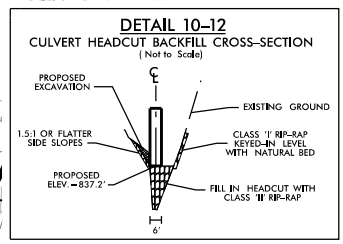
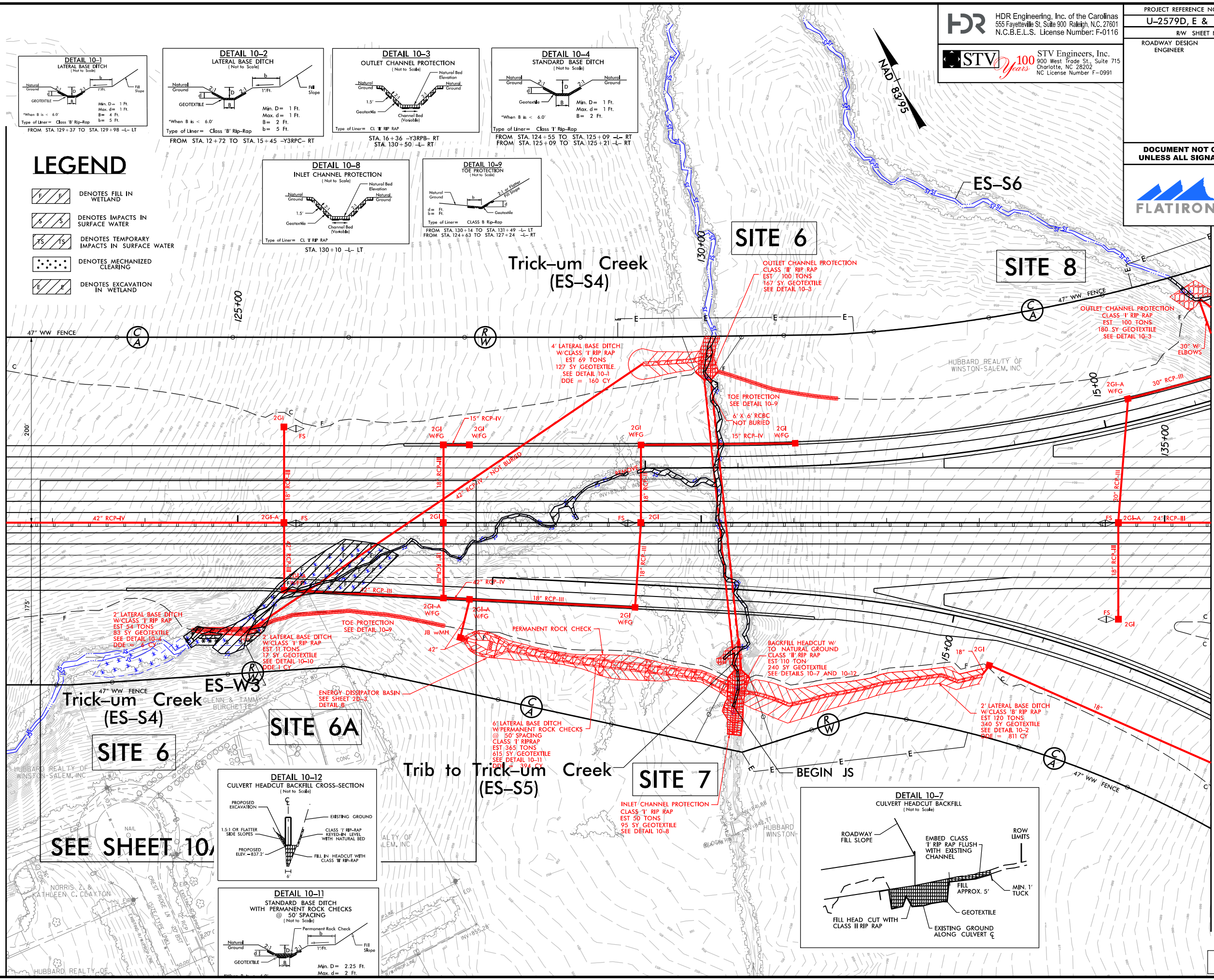


LEGEND

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- DENOTES IMPACTS IN SURFACE WATER
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- DENOTES MECHANIZED CLEARING
- DENOTES EXCAVATION IN WETLAND

MATCHLINE -L- STA 122 + 50 SEE SHEET 9

MATCHLINE -L- STA 135 + 50 SEE SHEET 11



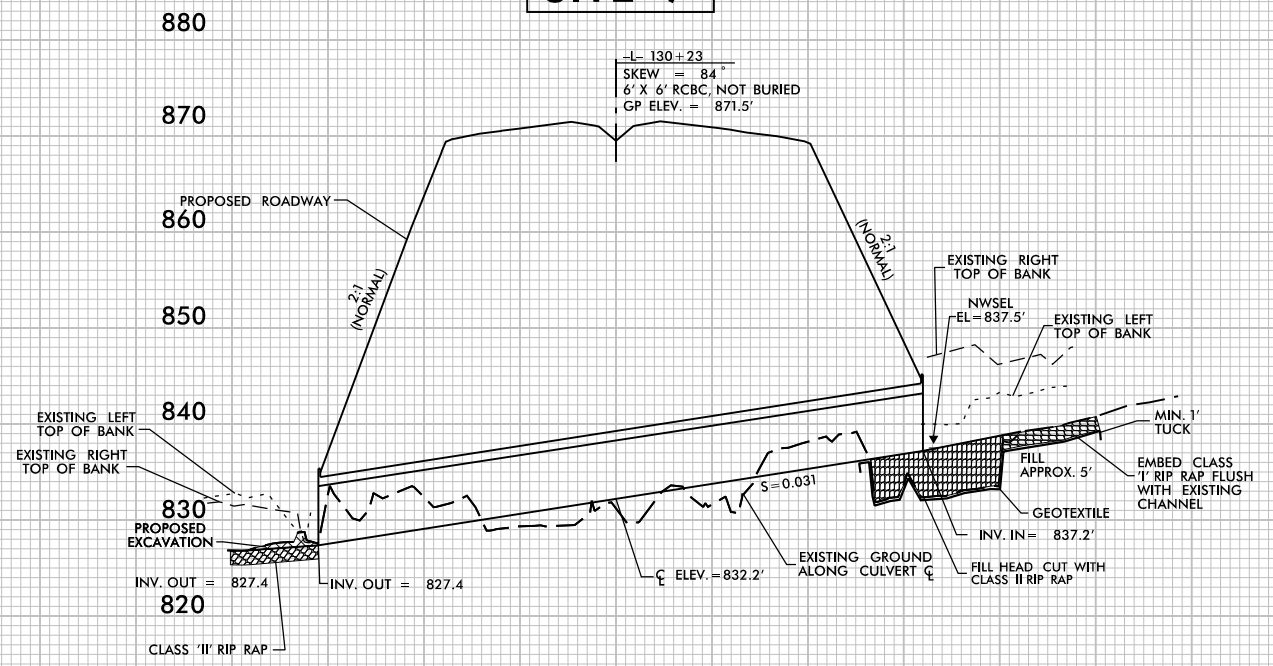
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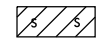
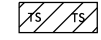
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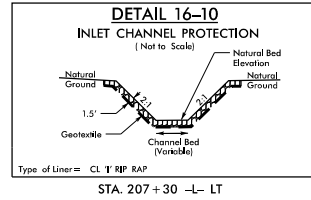
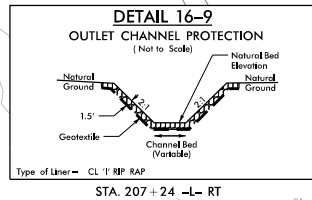
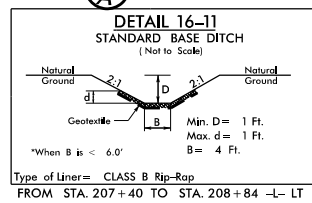
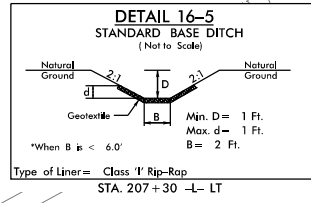
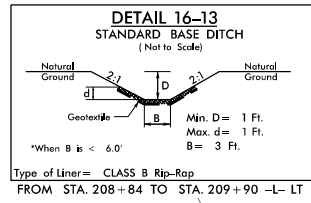
SITE 7



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LEGEND

-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



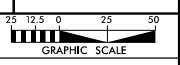
HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



STV Engineers, Inc.
800 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

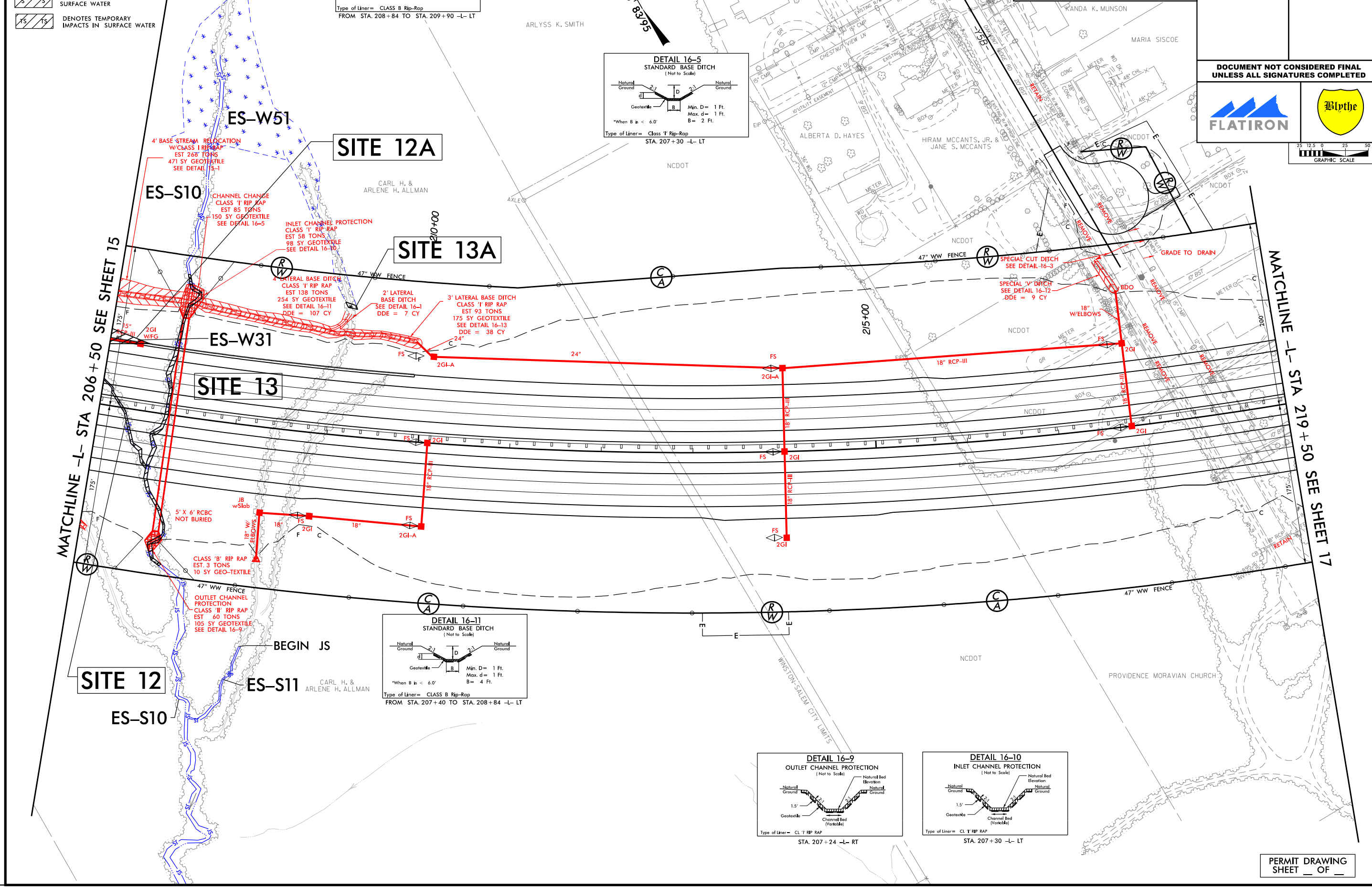
PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
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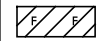
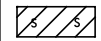
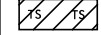
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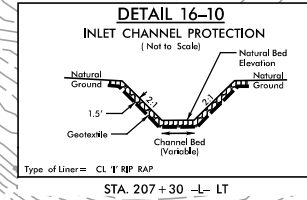
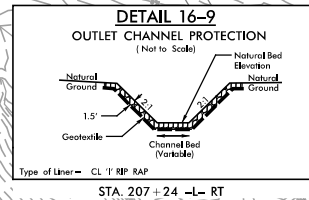
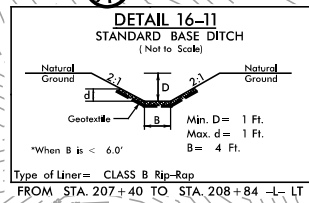
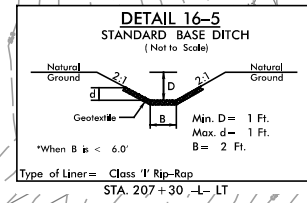
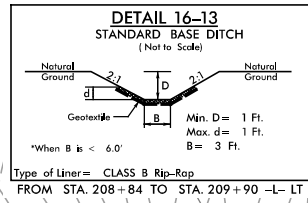
REVISIONS



PERMIT DRAWING
SHEET ___ OF ___

LEGEND

-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

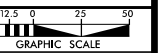


HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

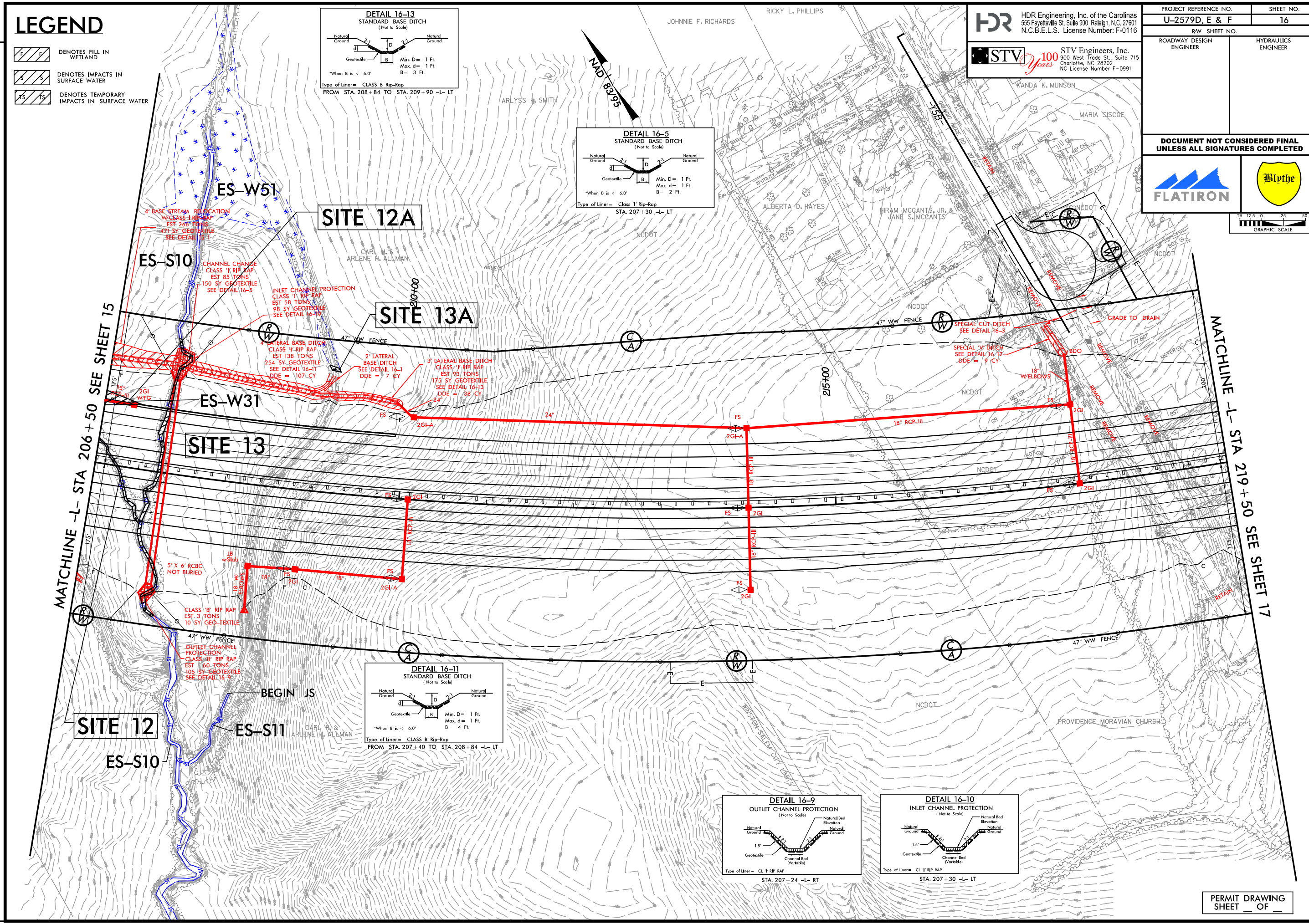
STV 100 Years STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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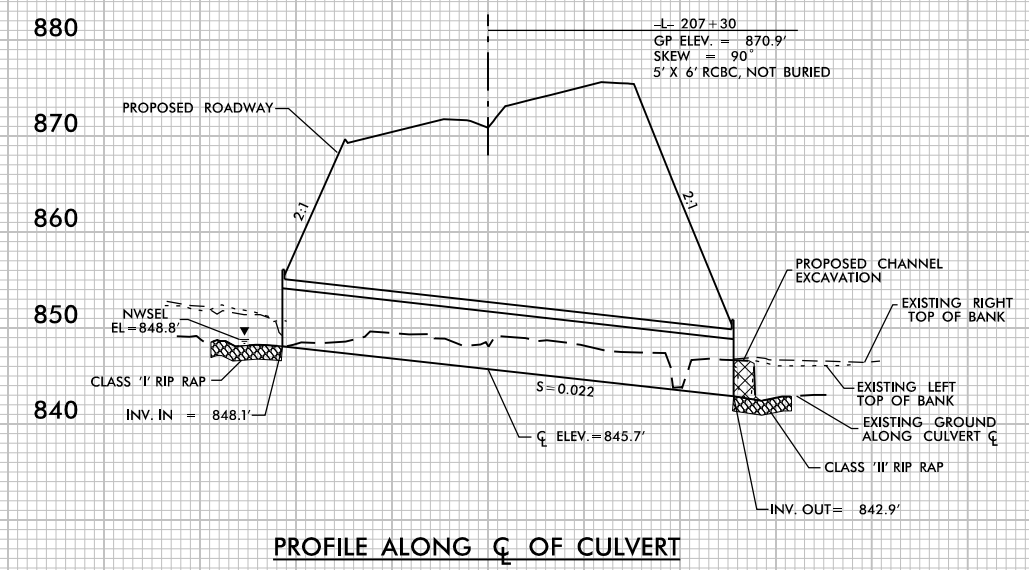
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
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SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL

100 50 0 50 100

SITE 13



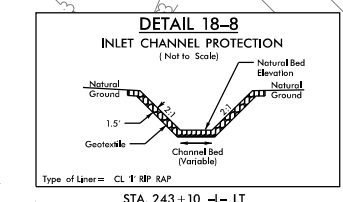
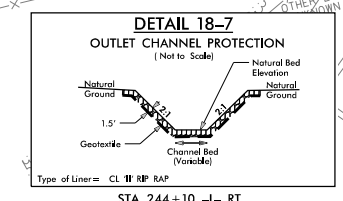
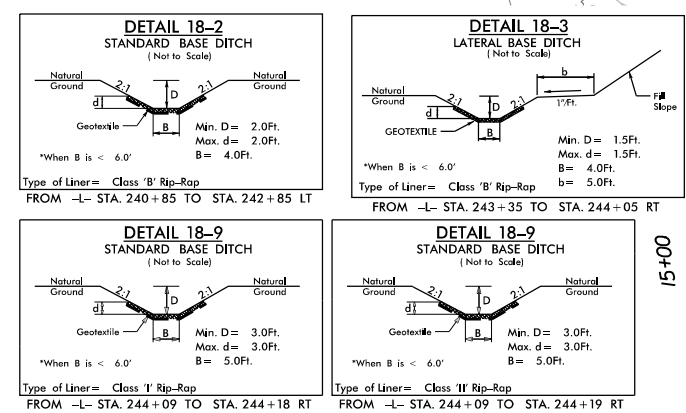
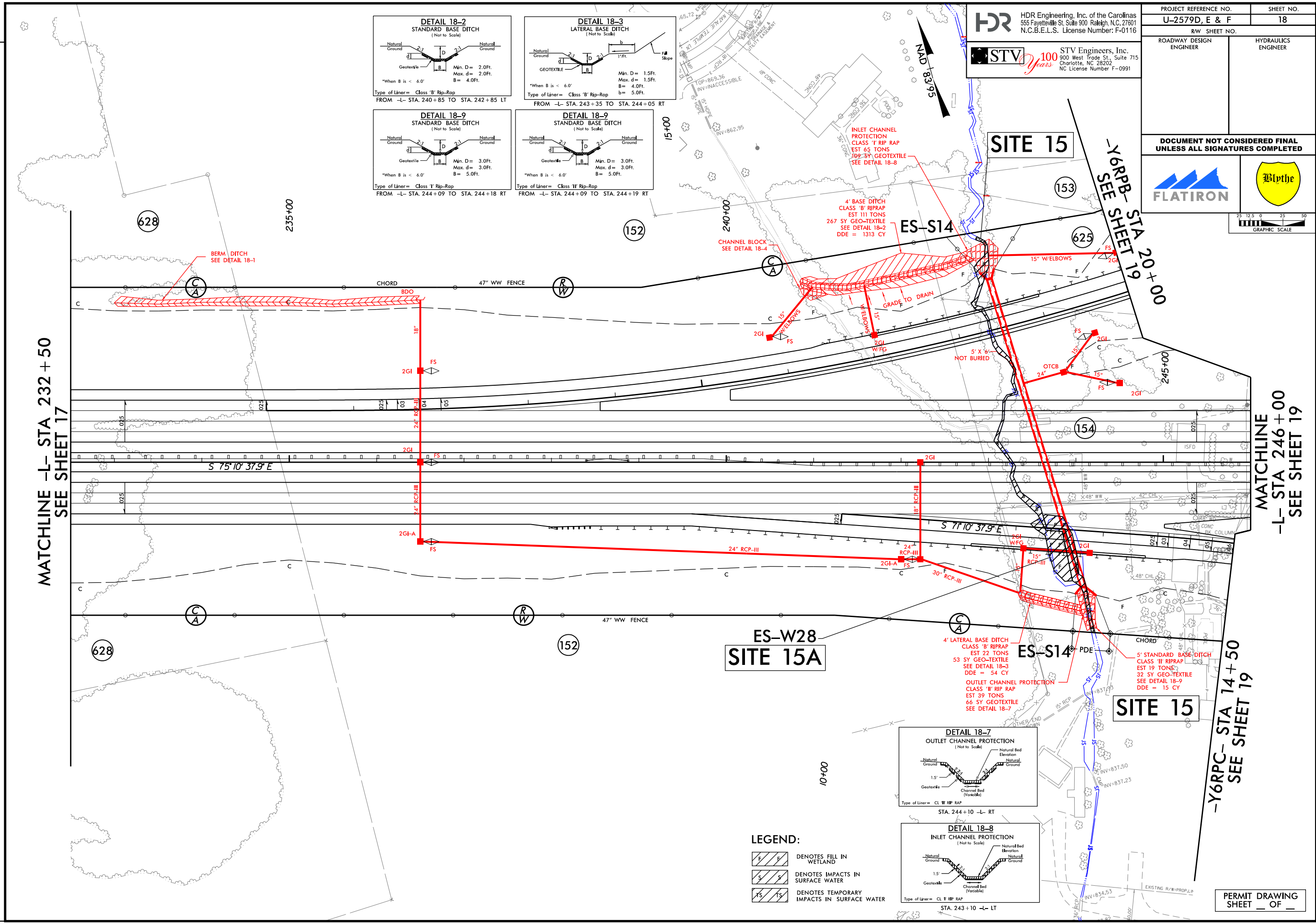
PROFILE ALONG C OF CULVERT

REVISIONS

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

STV 100 Years
 STV Engineers, Inc.
 800 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
GRAPHIC SCALE 0 12.5 25 50	



- LEGEND:**
- DENOTES FILL IN WETLAND
 - DENOTES IMPACTS IN SURFACE WATER
 - DENOTES TEMPORARY IMPACTS IN SURFACE WATER

MATCHLINE -L- STA 232 + 50
SEE SHEET 17

MATCHLINE -L- STA 246 + 00
SEE SHEET 19

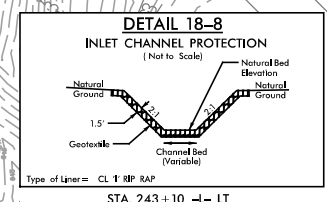
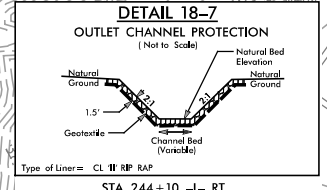
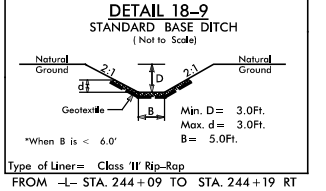
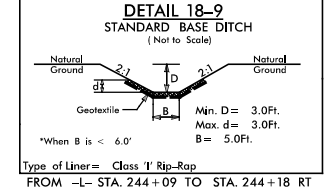
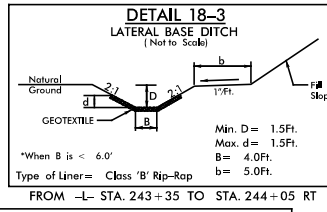
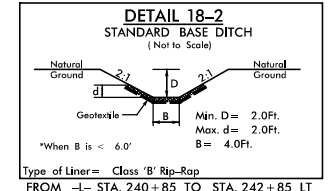
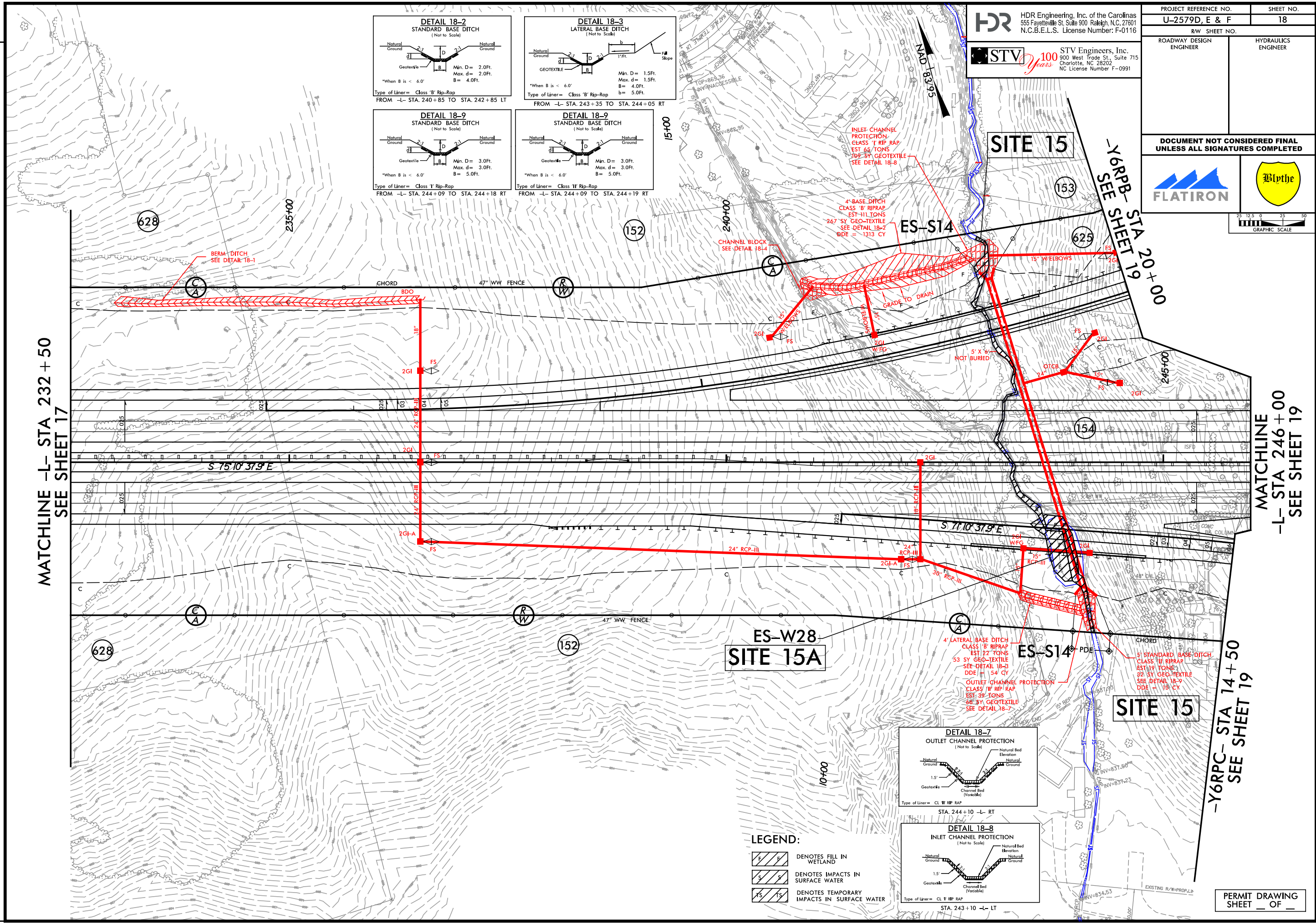
-Y6RPC- STA 14 + 50
SEE SHEET 19

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 N.C.B.E.L.S. License Number: F-0116

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 Charlotte, NC 28202
 NC License Number F-0991

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
25 12.5 0 25 50 GRAPHIC SCALE	



- LEGEND:**
- DENOTES FILL IN WETLAND
 - DENOTES IMPACTS IN SURFACE WATER
 - DENOTES TEMPORARY IMPACTS IN SURFACE WATER

MATCHLINE -L- STA 232 + 50
SEE SHEET 17

MATCHLINE
-L- STA 246 + 00
SEE SHEET 19

-Y6RPC- STA 14 + 50
SEE SHEET 19

5/14/99

PROJECT REFERENCE NO. SHEET NO.

U-2579D,E & F

ROADWAY DESIGN ENGINEER

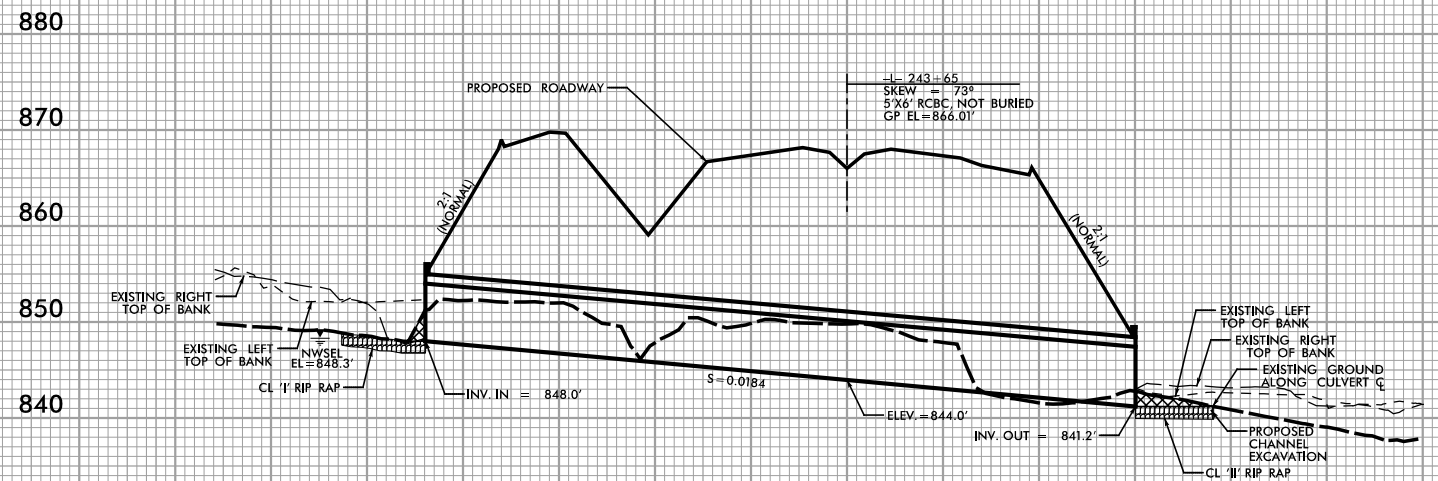
HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

250 200 150 100 50 0 50 100 150 200

SITE 15



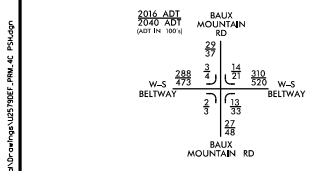
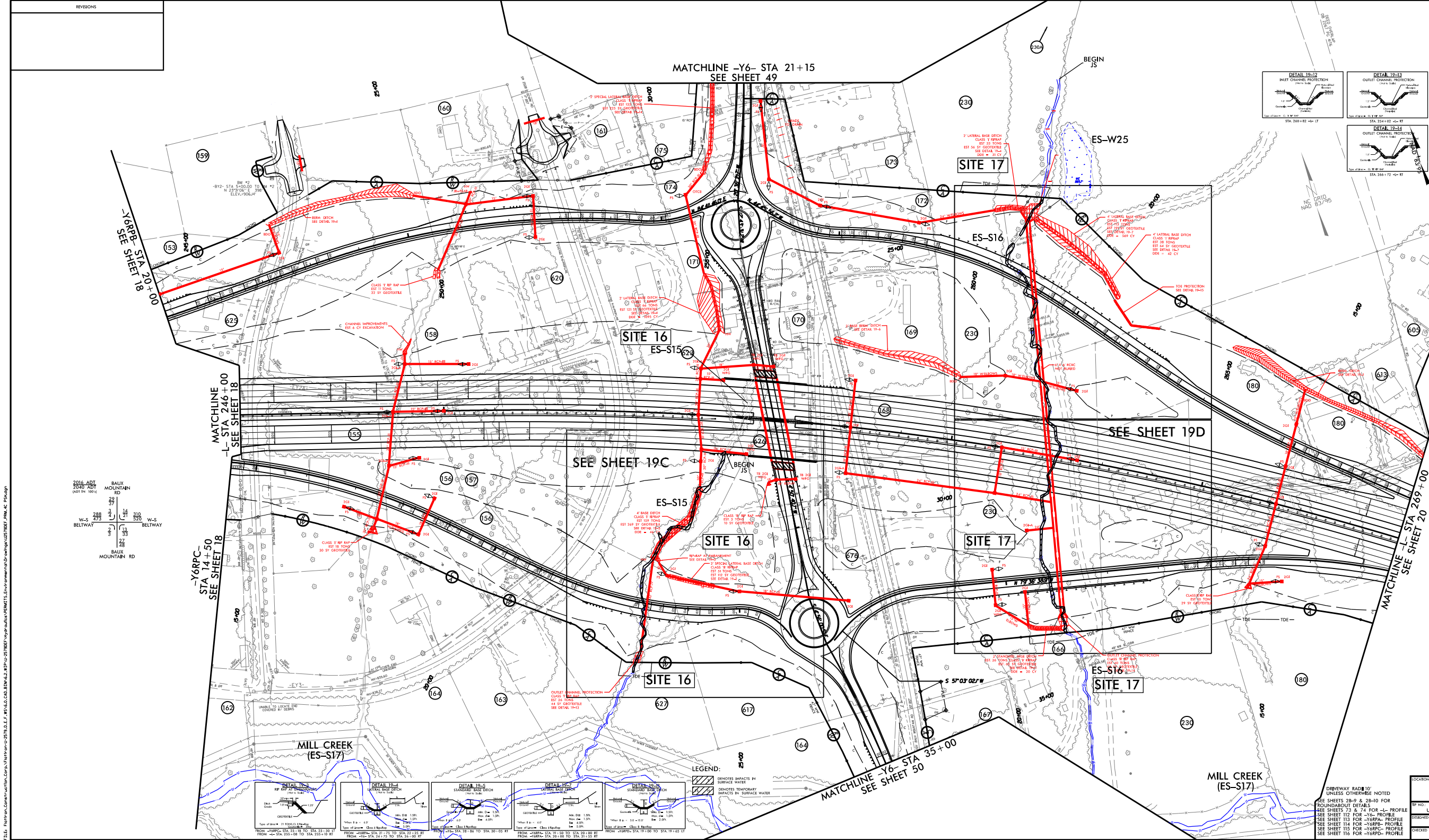
PROFILE ALONG C OF CULVERT

PERMIT DRAWING SHEET OF

6/5/99 AM PRM_CSR_PSH.dgn

NO.	DATE	DESCRIPTION

PROJECT REFERENCE NO. LI-2579D, E & F	SHEET NO. 19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
<small>HDR Engineering, Inc. of the Carolinas 251 Fayetteville Rd., Suite 200, Raleigh, NC 27601 N.C. P.E.'S. License Number: F-0116</small>	
<small>STV Engineers, Inc. 100 West Gate St., Suite 100 Durham, NC 27601 N.C. License Number: F-0991</small>	

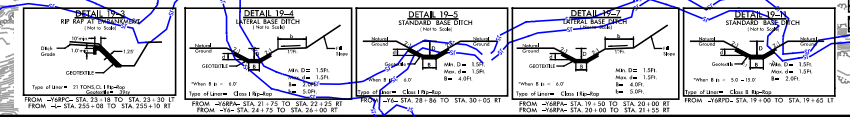
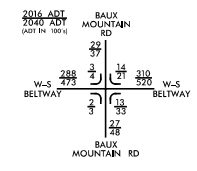
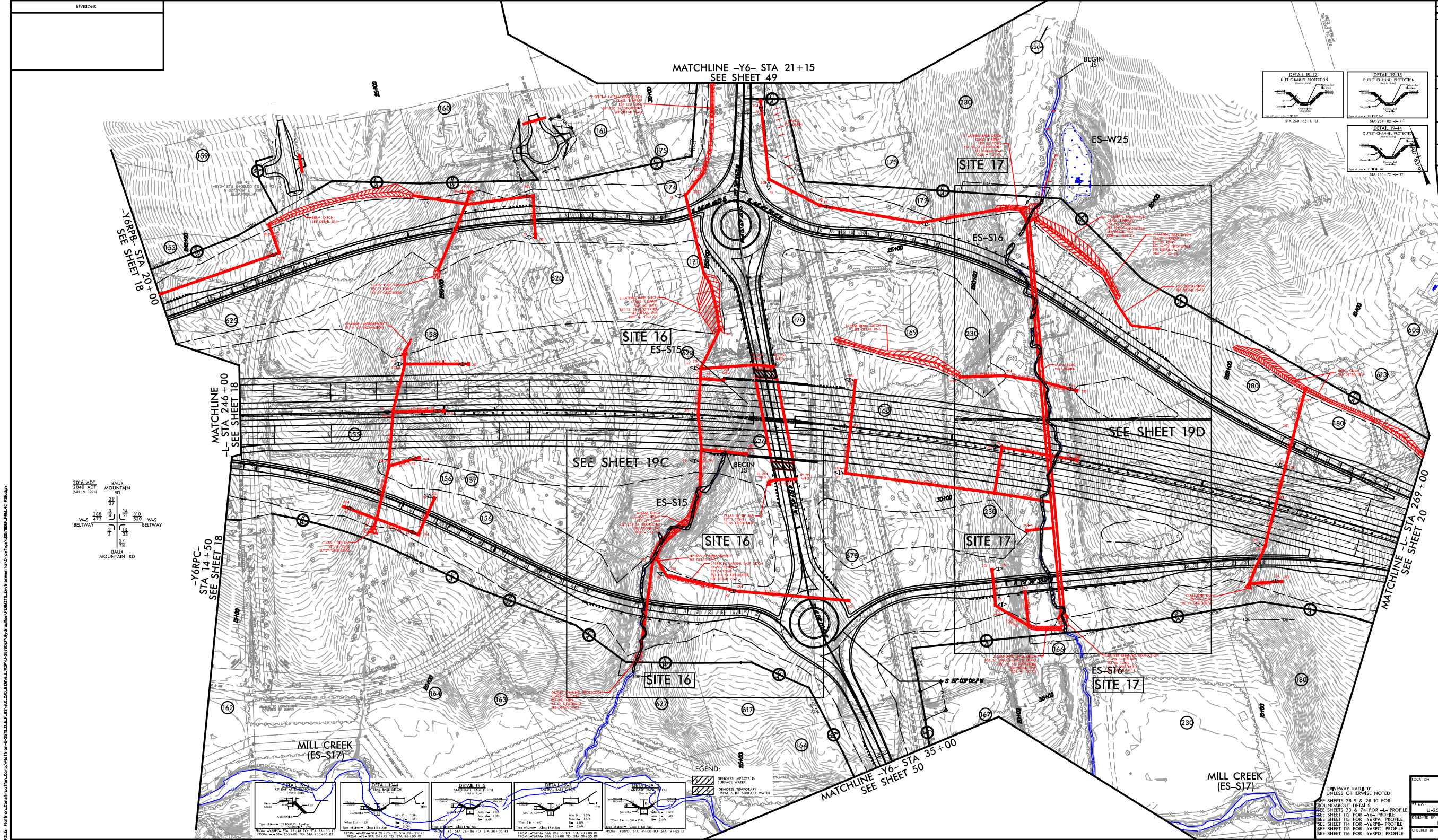


DETAIL NO.	DESCRIPTION	DATE	BY	CHECKED
15-17	INLET CHANNEL PROTECTION			
15-18	OUTLET CHANNEL PROTECTION			
15-19	OUTLET CHANNEL PROTECTION			

PERMIT DRAWING SHEET OF
GRAPHIC SCALE
DRIVEWAY RADII UNLESS OTHERWISE NOTED
SEE SHEETS 28-9 & 28-10 FOR ROUNDABOUT DETAILS
SEE SHEETS 75 & 74 FOR -Y6- PROFILE
SEE SHEET 112 FOR -Y6- PROFILE
SEE SHEET 113 FOR -Y6A- PROFILE
SEE SHEET 114 FOR -Y6B- PROFILE
SEE SHEET 115 FOR -Y6C- PROFILE
SEE SHEET 116 FOR -Y6D- PROFILE
CHECKED BY: JAF
DATE: 06/04/18

PLANT MATERIALS TO BE SUPPLIED BY CONTRACTOR
 DATE: 1/18/18
 DRAWN BY: JAF
 CHECKED BY: JAF

NO.	REVISIONS



PLOT INTERFERE UNDER 04/14/18
 DATE: 11/20/18
 USER: C:\Users\jaf\AppData\Local\Temp\18112018\18112018.dwg
 FILE: 18112018.dwg
 PLOTTER: HP DesignJet 5000PS

PROJECT REFERENCE NO. U-2579D, E & F SHEET NO. 19

ROADWAY DESIGN ENGINEER

HYDROLOGIC ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FLATIRON

STV ENGINEERS, INC.

STV ENGINEERS, INC. 200 West Gate St., Suite 100
Durham, NC 27601
N.C. License Number: F-0116
N.C. License Number: F-0991

PERMIT DRAWING SHEET OF

GRAPHIC SCALE
0 25 50 75 100
PLANS

DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

SEE SHEETS 28-9 & 28-10 FOR ROUNDABOUT DETAILS

SEE SHEETS 73 & 74 FOR -L- PROFILE

SEE SHEET 112 FOR -Y6- PROFILE

SEE SHEET 113 FOR -Y6RPC- PROFILE

SEE SHEET 114 FOR -Y6RPC- PROFILE

SEE SHEET 115 FOR -Y6RPC- PROFILE

SEE SHEET 116 FOR -Y6RPC- PROFILE

CHECKED BY: JAF DATE: 06/04/18

OCCLUSION:

PROJECT NO. U-2579D, E & F COUNTY: FORSYTH

DESIGNED BY: EPW


8/17/99

STV 100 Years
 STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991



FLATIRON

Wlythe

25 12.5 0 25 50
 GRAPHIC SCALE

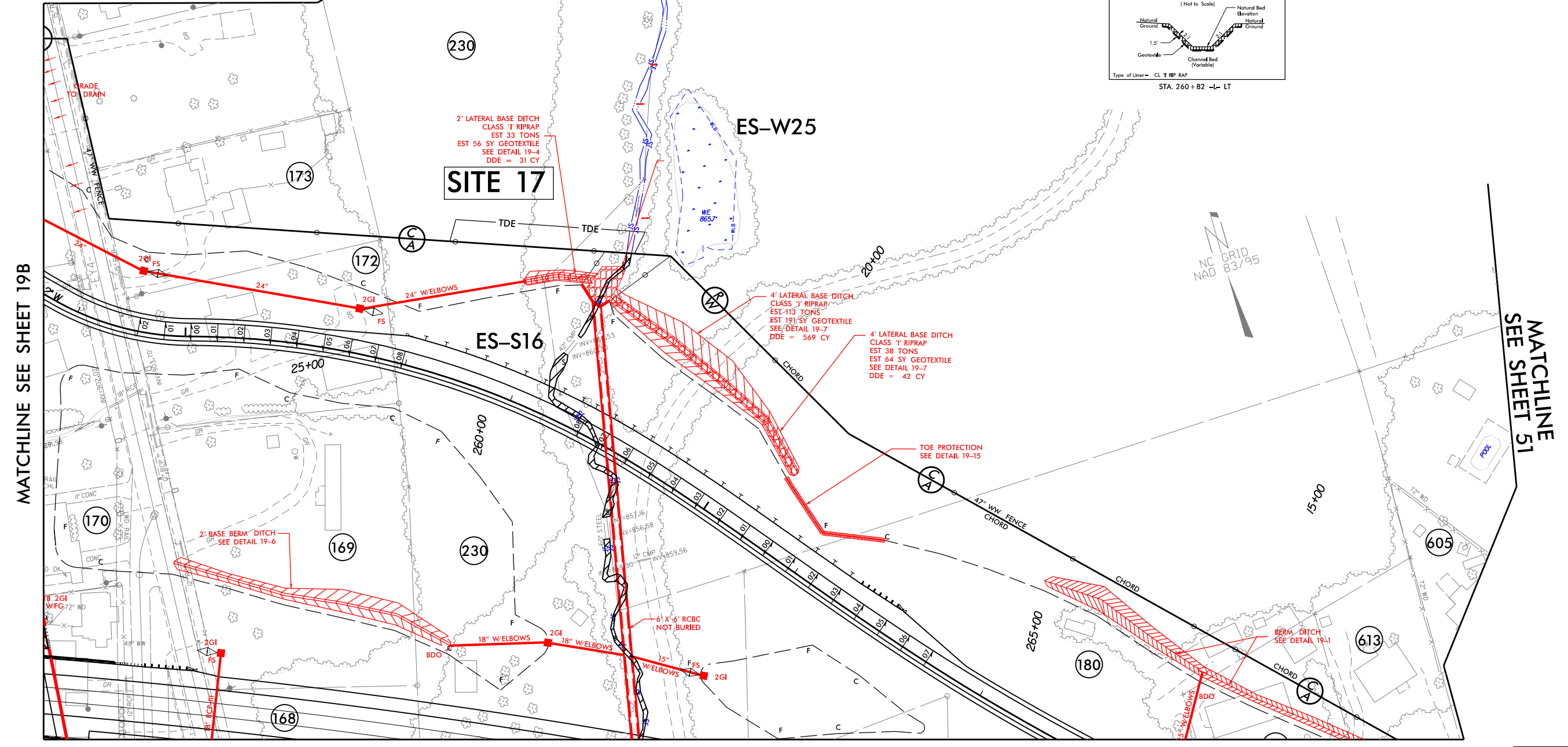
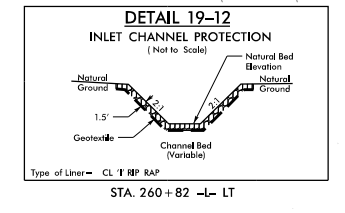
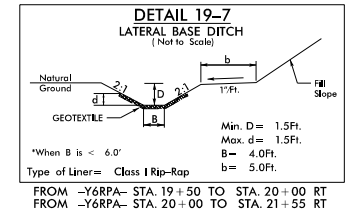
PROJECT REFERENCE NO. U-2759D, E & F	SHEET NO. 19A
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900, Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

LEGEND

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



**MATCHLINE -Y6- STA 20+15
SEE SHEET 49**



PLOT DRIVER: NCDOT_color_eng_100.plt
 USER: NWMACK
 DATE: 9/18/2019
 TIME: 11:24:34 AM
 FILE: Flatiron_Construction_Corp_NFlatiron-U-2579-D.E.F.WS\6.0.CAD.BTM\6.2.WTP-U-2579DEF-Hydraulics\PERMITS_Environment\Drawings\U2579DEF_PRM_4C_PSH.dgn

PERMIT DRAWING
SHEET ___ OF ___


8/17/99

STV 100 Years
 STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

FLATIRON

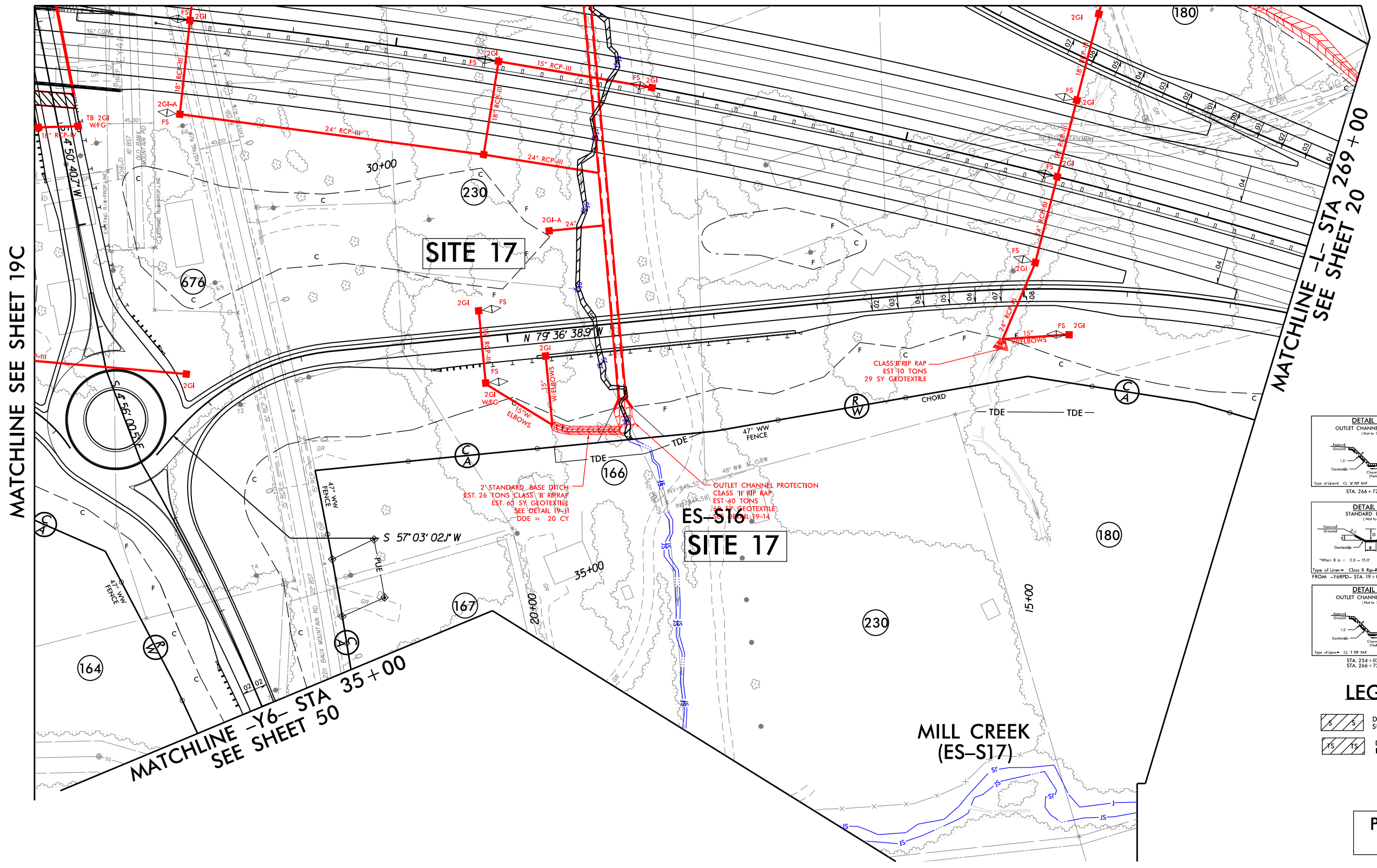
Wlythe

25 12.5 0 25 50
 GRAPHIC SCALE

PROJECT REFERENCE NO. U-2759D, E & F	SHEET NO. 19D
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



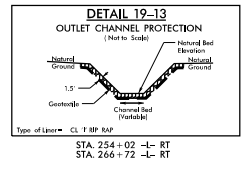
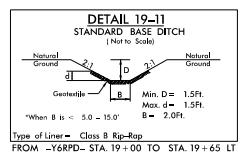
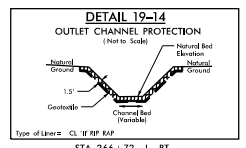
MATCHLINE SEE SHEET 19A





MATCHLINE SEE SHEET 19C

MATCHLINE -L- STA 269 + 00
SEE SHEET 20

MATCHLINE -Y6- STA 35 + 00
SEE SHEET 50



LEGEND

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PERMIT DRAWING
SHEET ___ OF ___

PLOT DRIVER: NCDOT_pdf_color_eng-100.plt
 USER: CMYERS
 FILE: Flatiron_Construction_Corp.\Flatiron-U-2759D.E.F.WS\6.0.CAD.BTM\6.2.WTP-U-2759DEF\Hydraulics\PERMITS_Environment\Drawings\U2759DEF_PRM_4C_PSH.dgn

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 DATE: 9/16/2019
 TIME: 11:41:5 AM

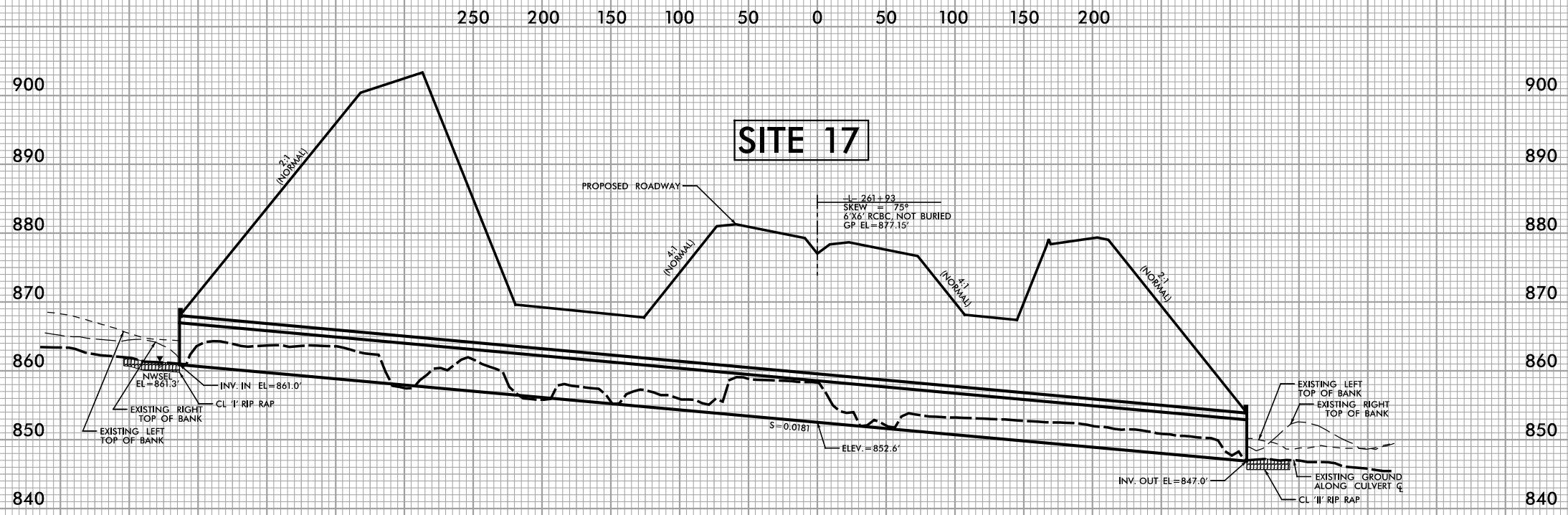
REVISIONS

5/14/99

PROJECT REFERENCE NO. U-2579D,E & F	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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



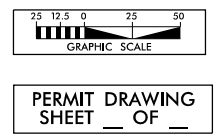
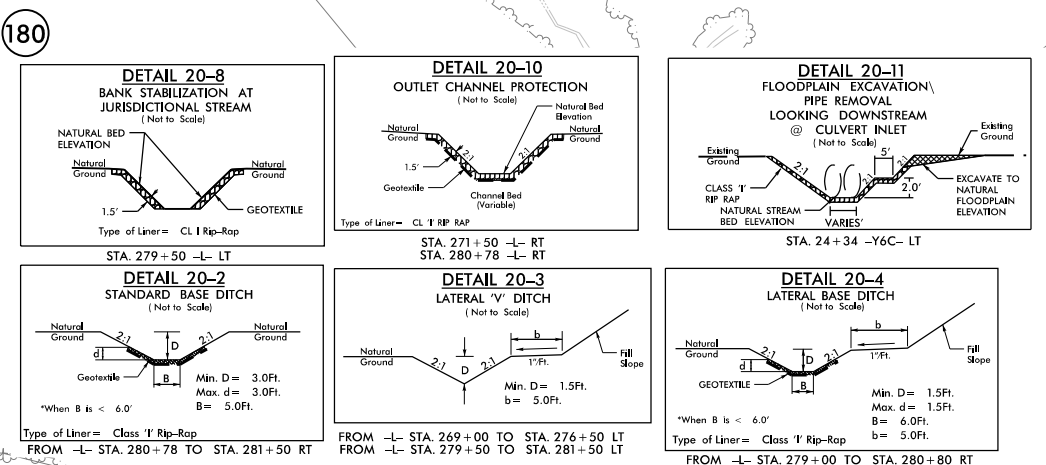
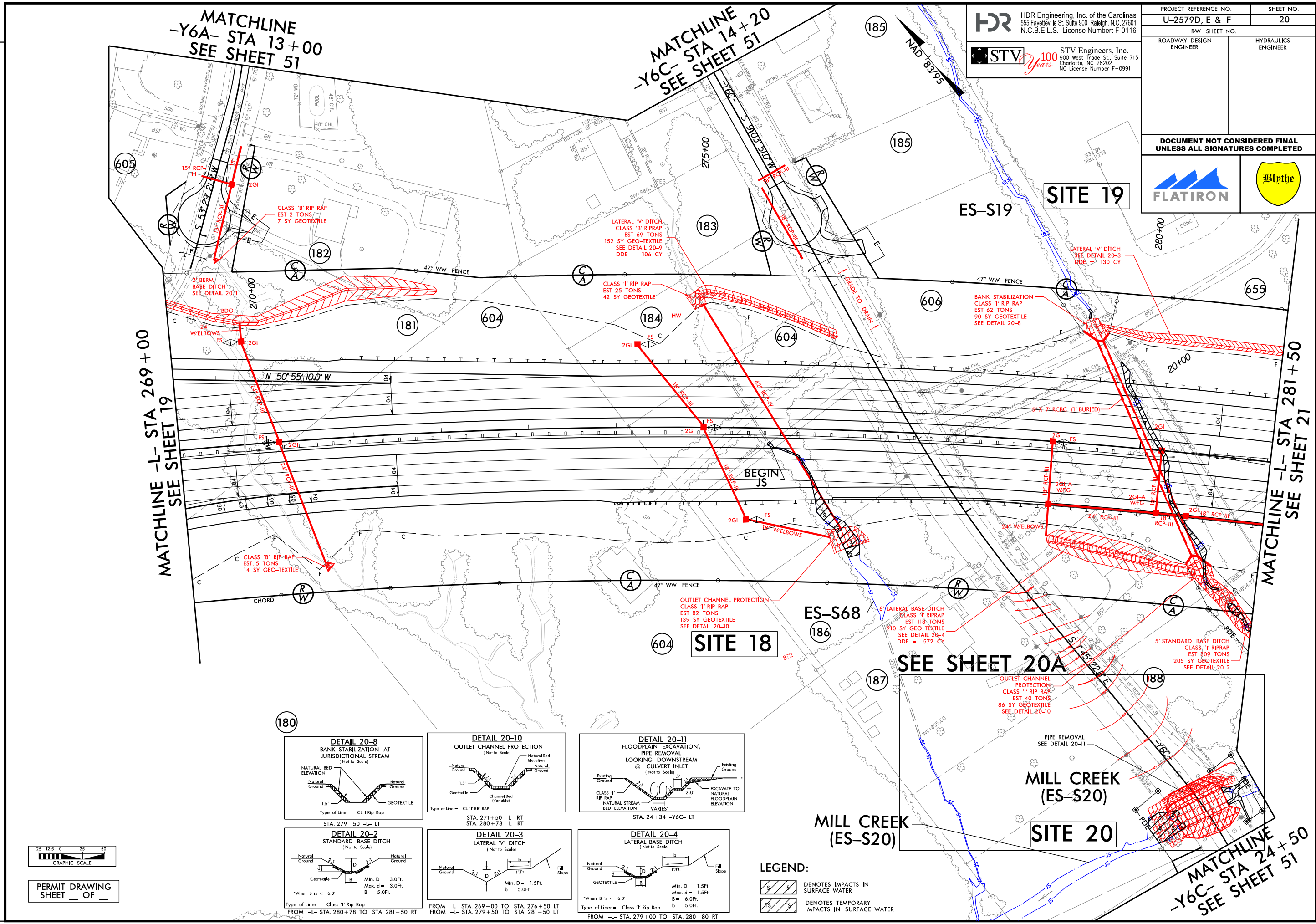
PROFILE ALONG CL OF CULVERT

PERMIT DRAWING
SHEET ___ OF ___

6:08:27 AM PRM_CSR_PSH.dgn
C:\PROJECTS\U-2579\DRAWING

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



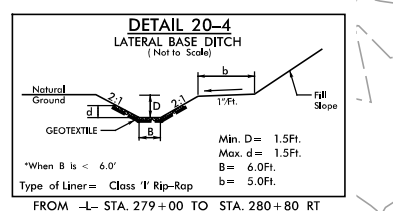
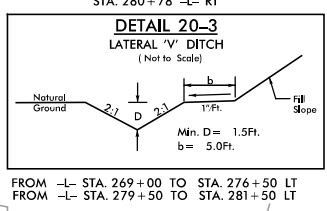
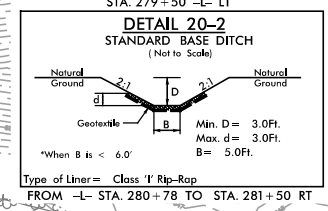
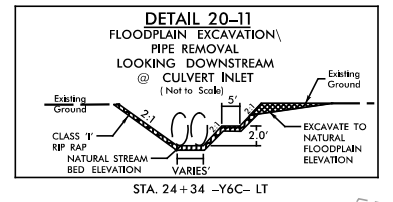
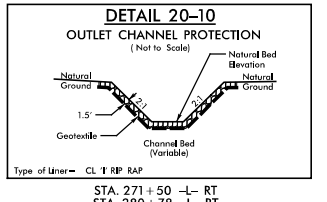
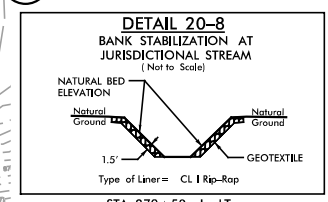
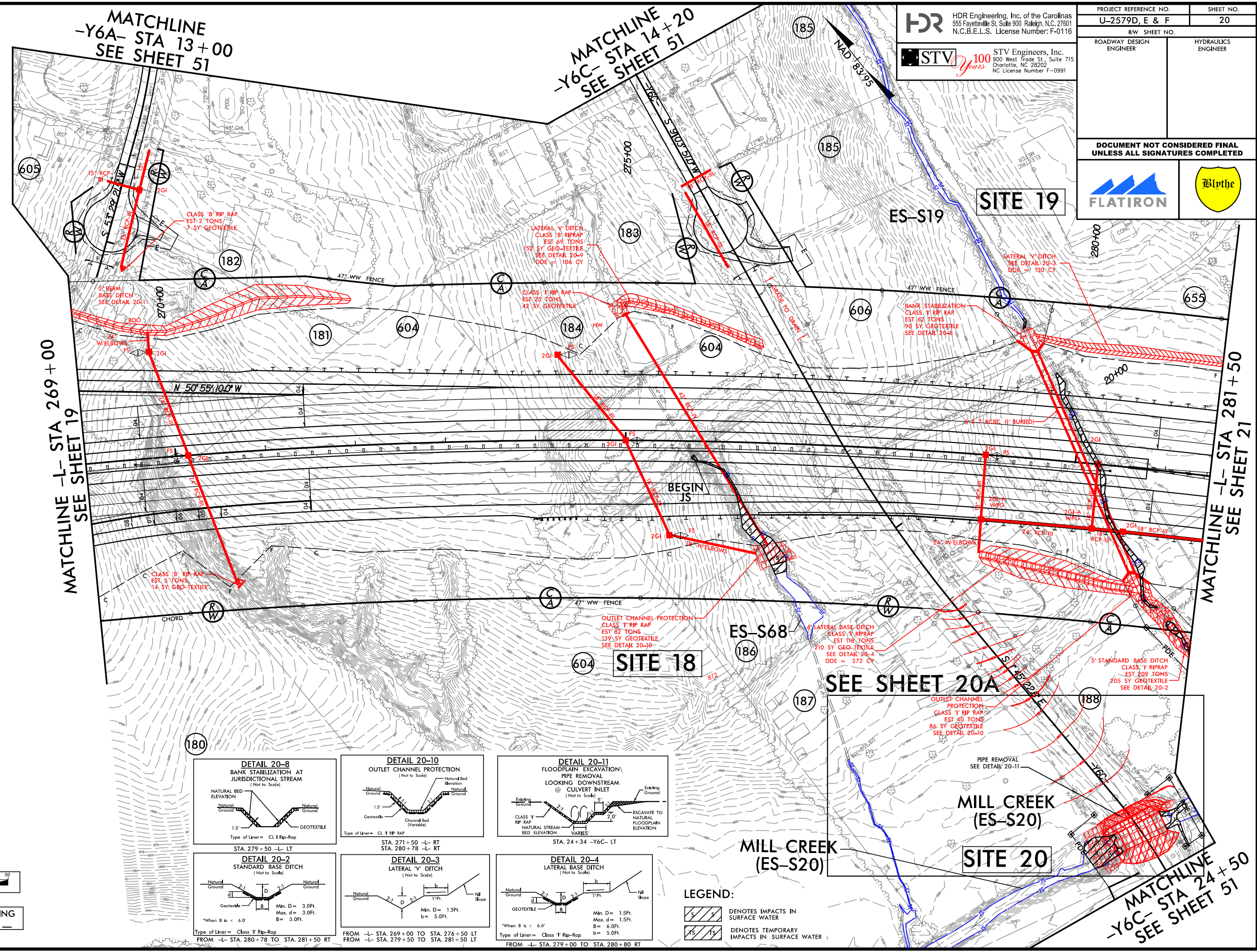


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 DATE: 9/18/2019
 TIME: 11:26:30 AM
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
REVISIONS


PROJECT REFERENCE NO.	SHEET NO.
U-2579D, E & F	20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

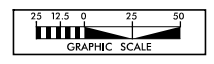
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

LEGEND:

 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING SHEET OF

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 USER: CMYERS
 DATE: 9/18/2019
 TIME: 10:59:37 AM
 FILE: Flatiron-Construction-Corp.\Flatiron-U-2579D.E.F.WS\6.0.CAD.BTM.6.2.WTP-U-2579DEF\Hydraulics\PERMITS-Environmental\Drawings\U2579DEF_PRM_4C_PSH.dgn

REVISIONS

5/14/99

PROJECT REFERENCE NO. SHEET NO.

U-2579D,E & F

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

250 200 150 100 50 0 50 100 150 200

900

890

880

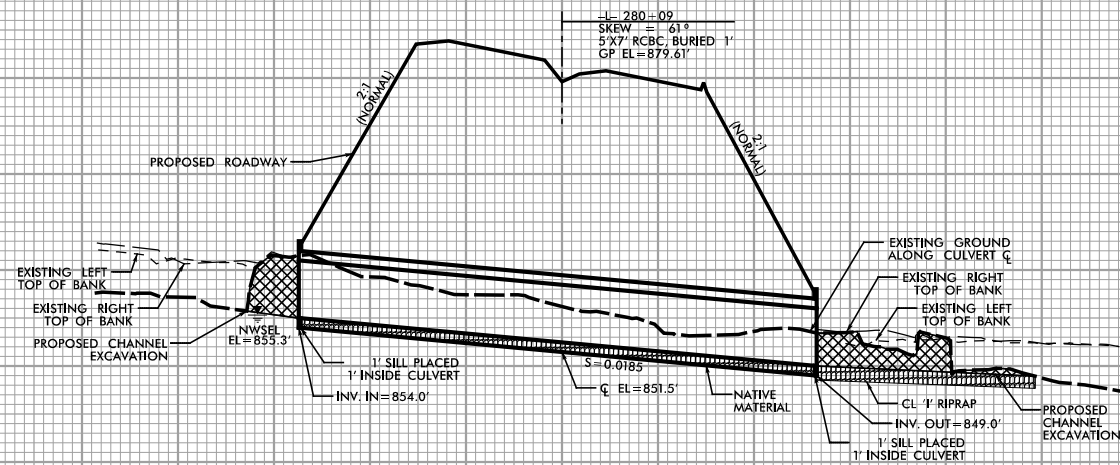
870

860

850

840

SITE 19



PROFILE ALONG C OF CULVERT

6/2/04 M PRM_CSR_PSH.dgn

HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

STV 100 Years STV Engineers, Inc.
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 Charlotte, NC 28202
 NC License Number F-0991

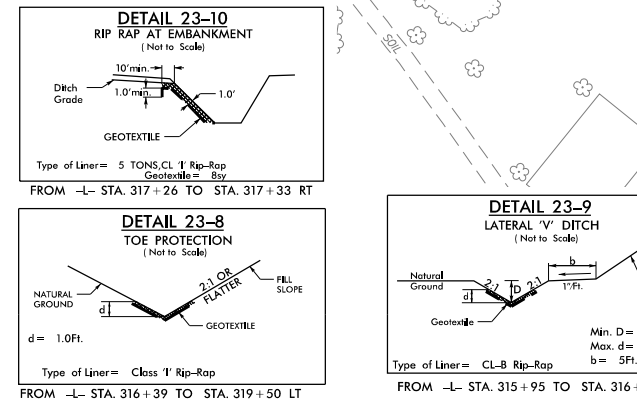
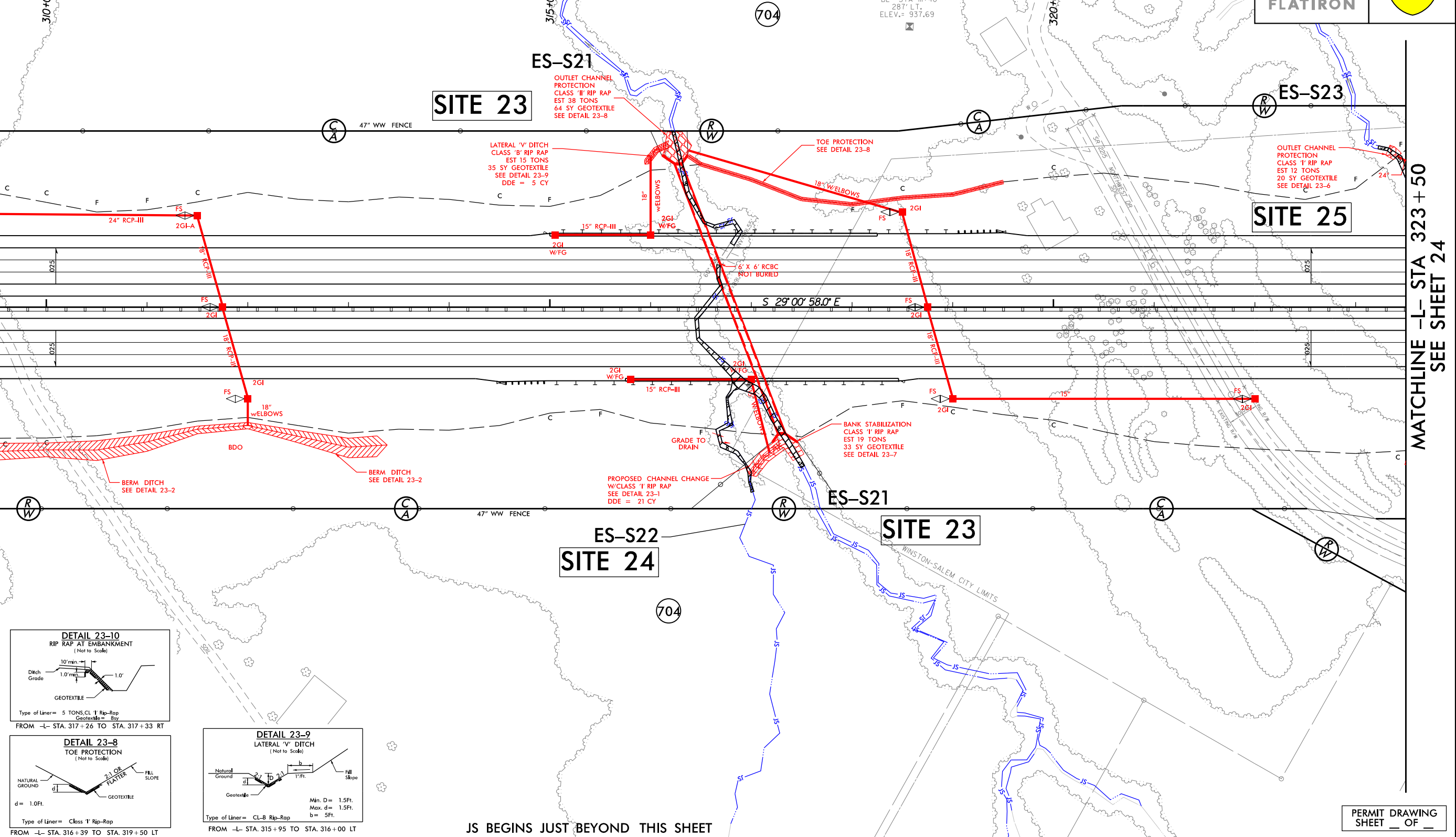
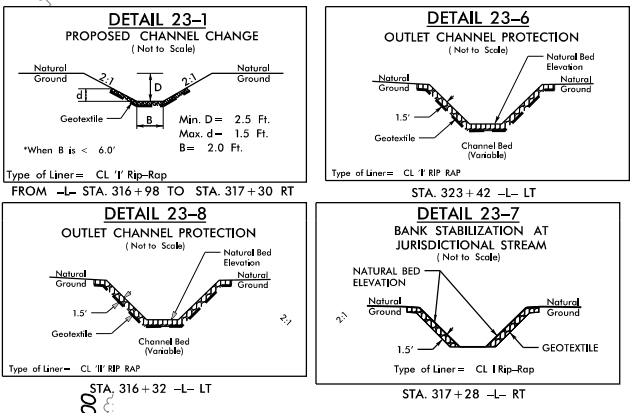
25 12.5 0 25 50
 GRAPHIC SCALE

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

LEGEND:

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER



JS BEGINS JUST BEYOND THIS SHEET

PERMIT DRAWING SHEET ___ OF ___

PLOT DRIVER: NCDOT_color_eng_100.plt
 USER: CMYERS
 DATE: 9/13/2019
 TIME: 10:16:48 AM
 FILE: Flatiron.Construction.Corp.\Flatiron-U-2579.D.E.F.WS\6.0.CAD.BTM\6.2.WTPU-2579DEF\Hydraulics\PERMITS_Env\env\Drawings\U2579DEF_PRM_4C_PSH.dgn

REVISIONS

MATCHLINE -L- STA 309+50
SEE SHEET 22

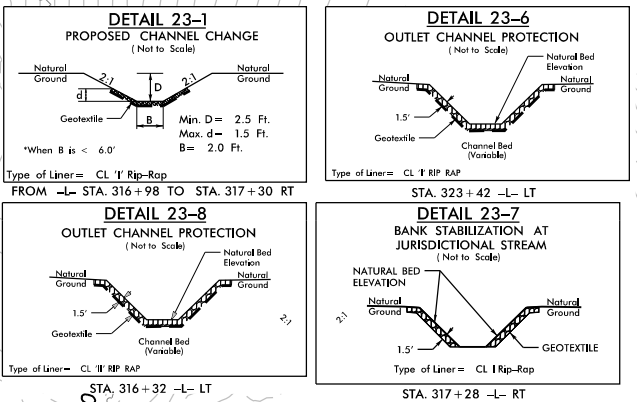
MATCHLINE -L- STA 323+50
SEE SHEET 24

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 N.C.B.E.L.S. License Number: F-0116

STV 100 Years STV Engineers, Inc.
 800 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

25 12.5 0 25 50
 GRAPHIC SCALE

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



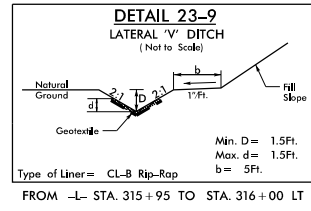
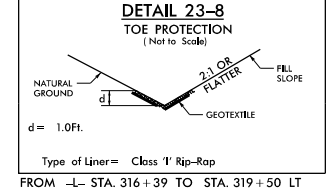
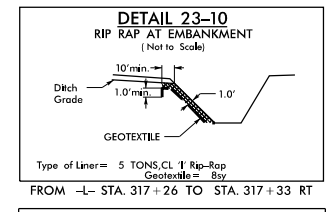
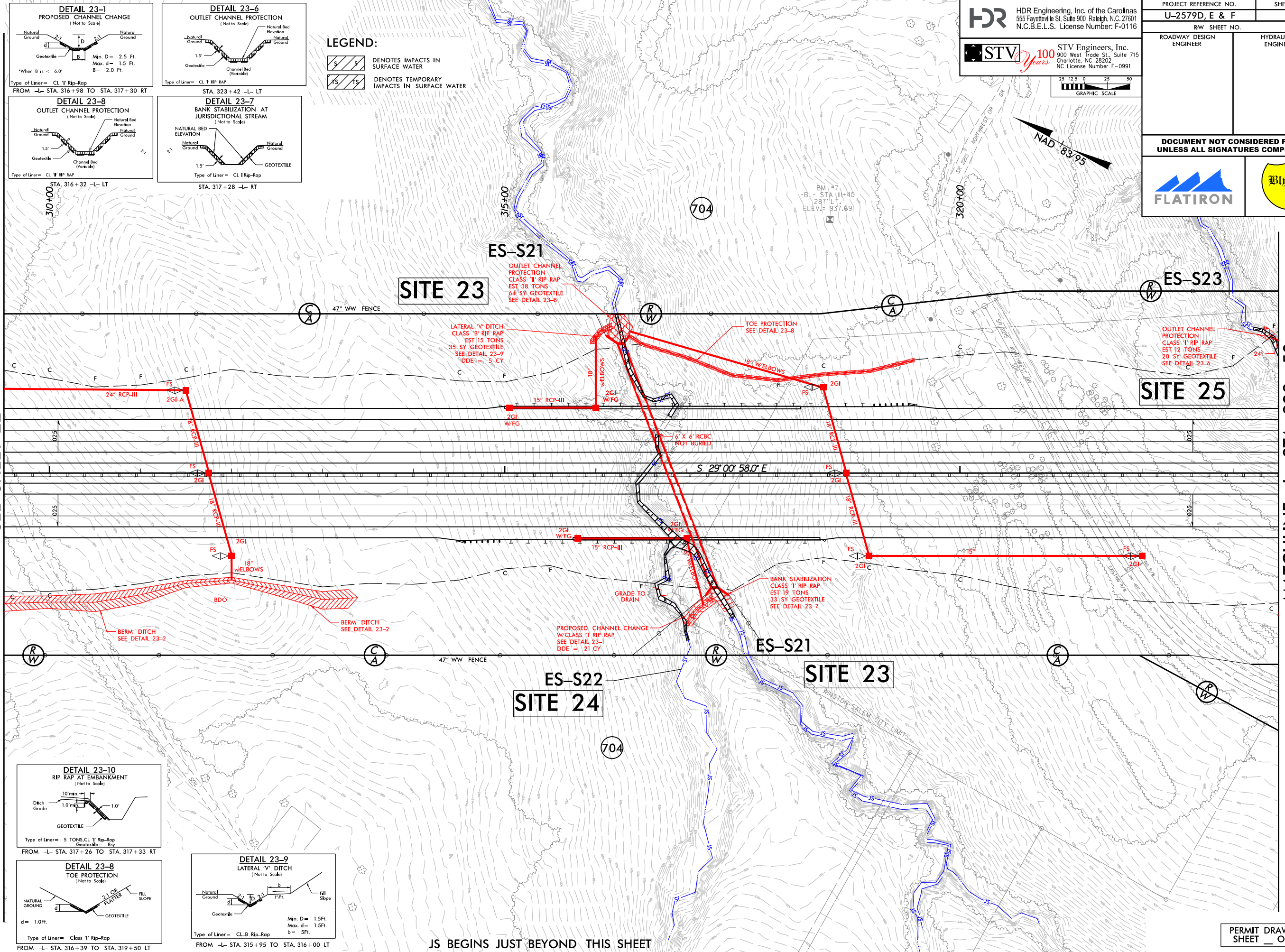
LEGEND:

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

MATCHLINE -L- STA 309 + 50
SEE SHEET 22

MATCHLINE -L- STA 323 + 50
SEE SHEET 24



JS BEGINS JUST BEYOND THIS SHEET

PERMIT DRAWING
SHEET ___ OF ___

PLOT DRIVER: NCDOT_color_eng_100.plt
 USER: CMYERS
 DATE: 9/13/2019
 TIME: 10:21:28 AM
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REVISIONS

5/14/99

PROJECT REFERENCE NO. SHEET NO.

U-2579D,E & F

ROADWAY DESIGN ENGINEER

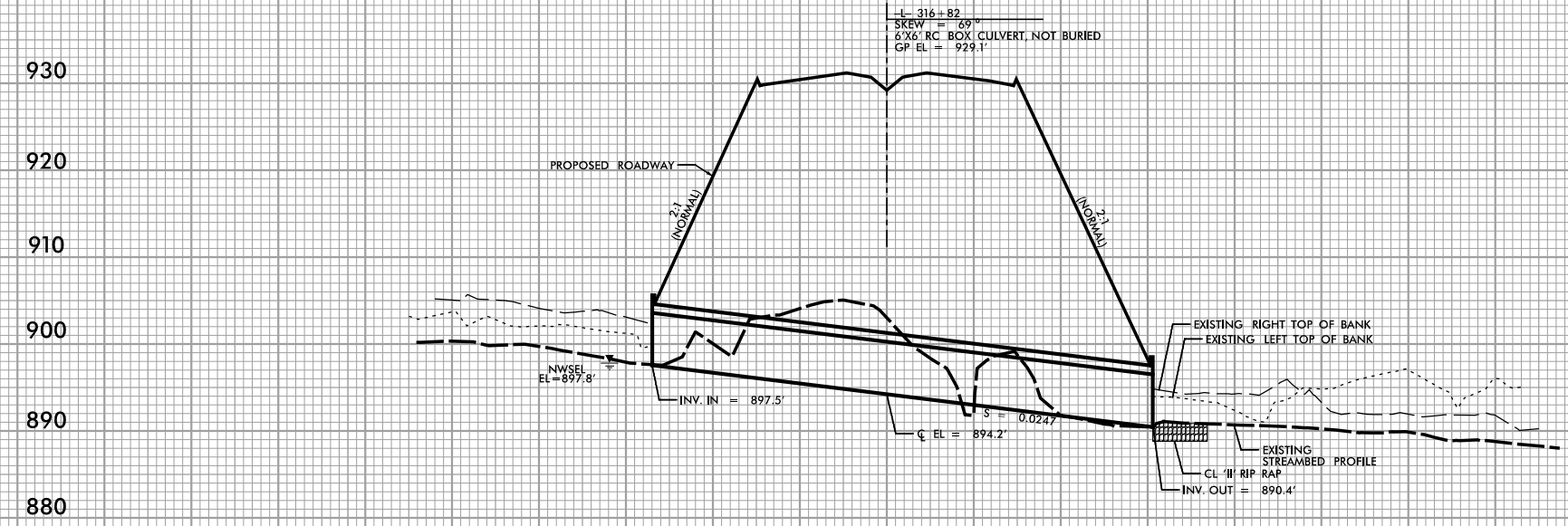
HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SCALE:
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1" = 10' VERTICAL

250 200 150 100 50 0 50 100 150 200

SITE 23



PROFILE ALONG CL OF CULVERT

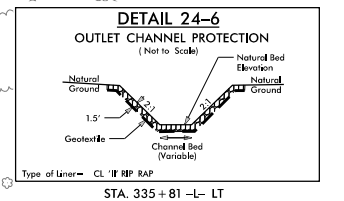
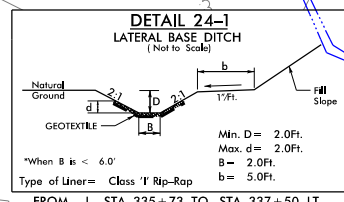
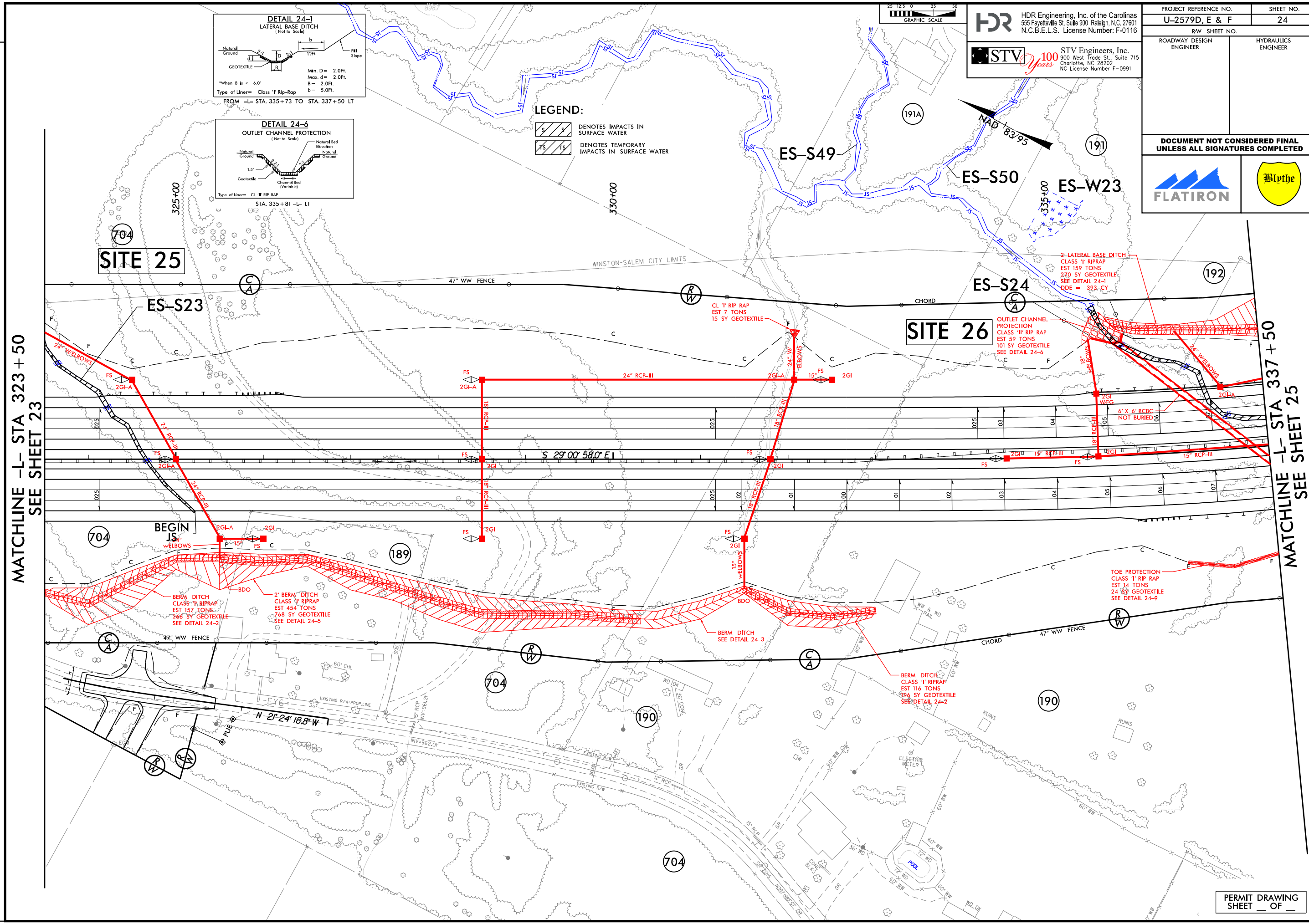
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REVISIONS

MATCHLINE -L- STA 323+50
 SEE SHEET 23

MATCHLINE -L- STA 337+50
 SEE SHEET 25



LEGEND:
 DENOTES IMPACTS IN SURFACE WATER
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

HDR HDR Engineering, Inc. of the Carolinas
 655 Fayetteville St., Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

STV 100 Years
 STV Engineers, Inc.
 800 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

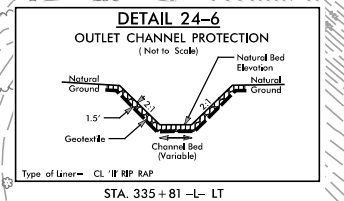
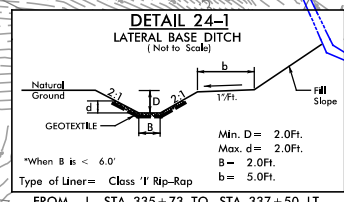
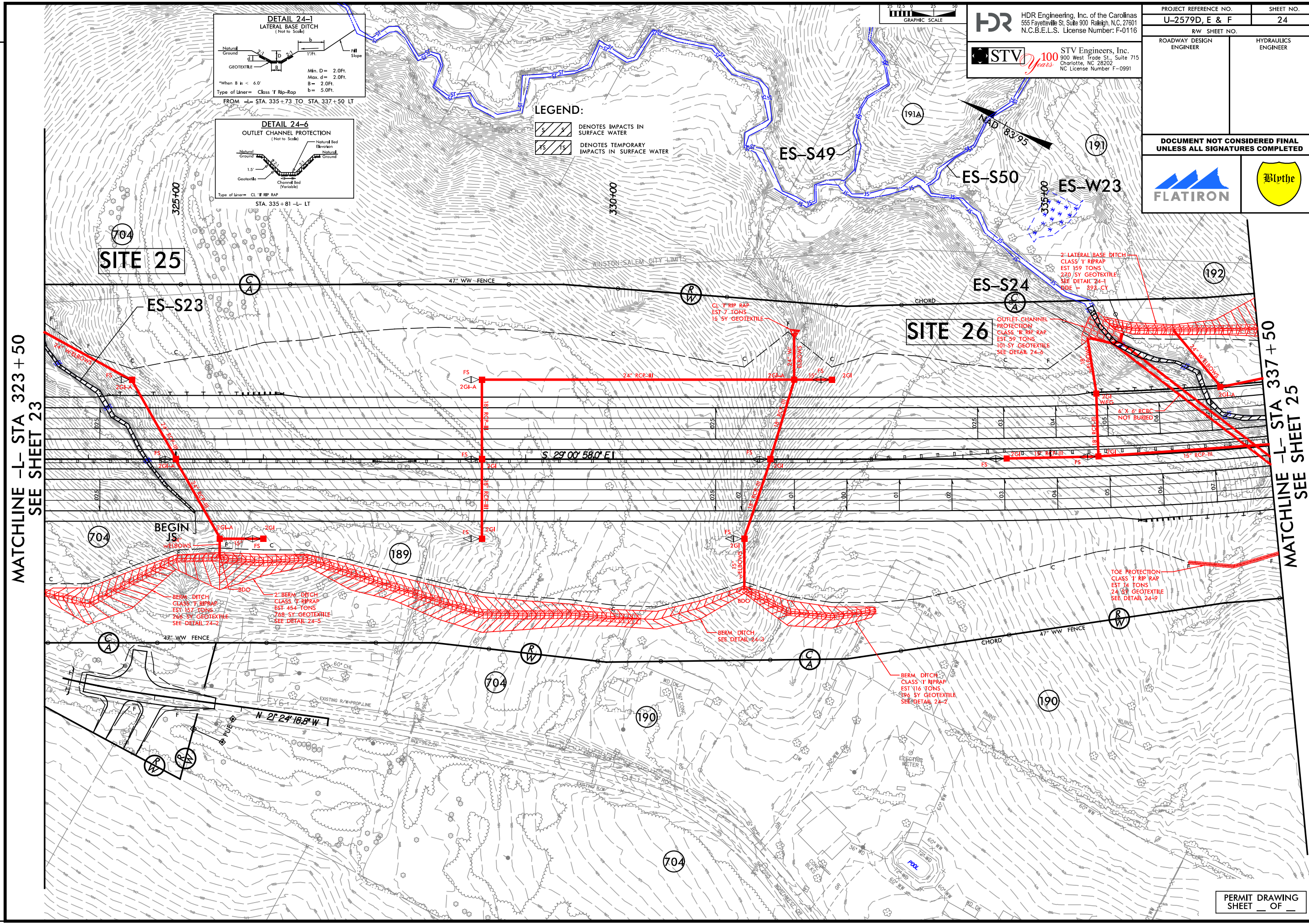
PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
 SHEET OF

REVISIONS

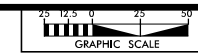
MATCHLINE -L- STA 323+50
 SEE SHEET 23

MATCHLINE -L- STA 337+50
 SEE SHEET 25



LEGEND:

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

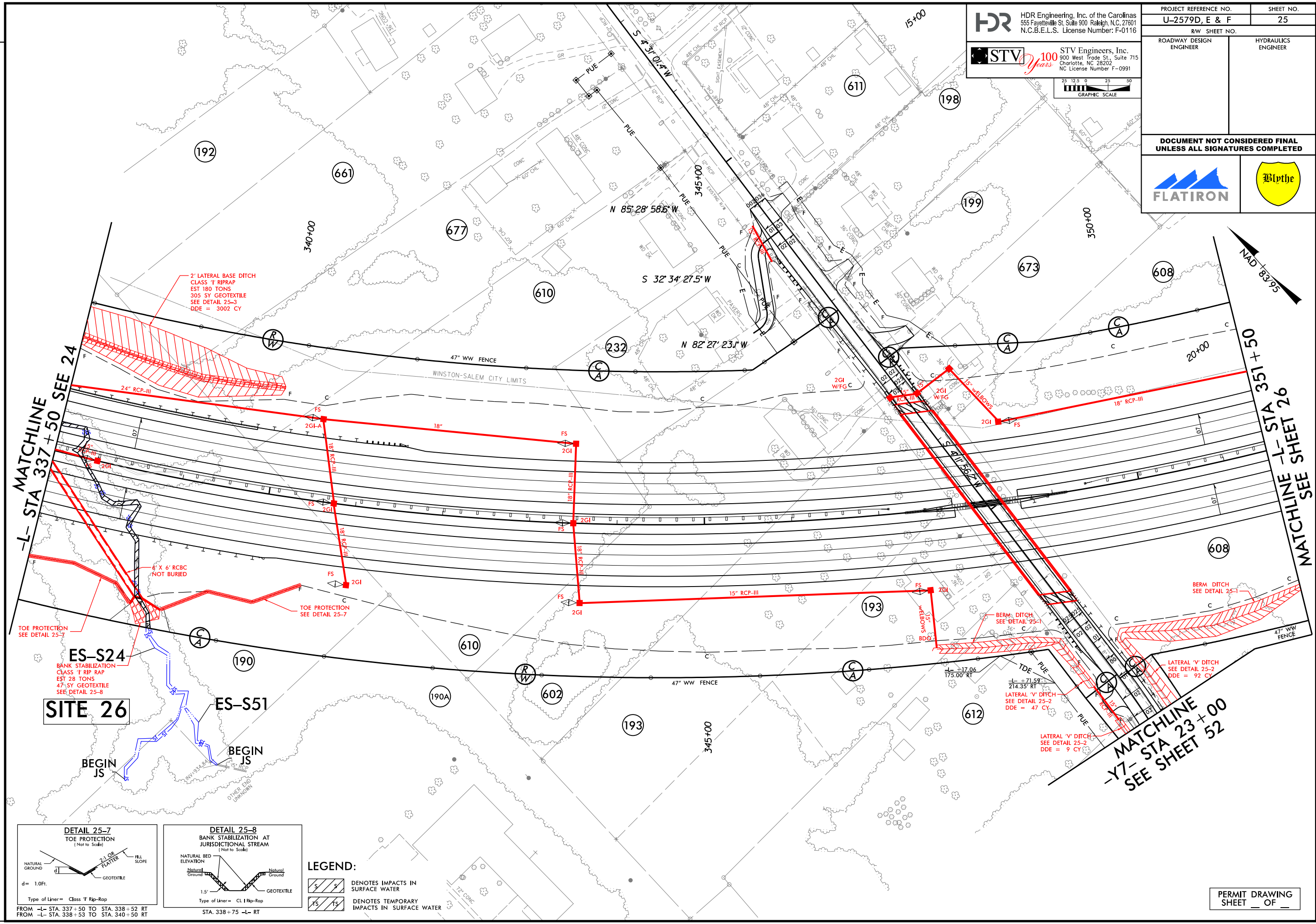
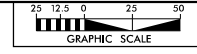


HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

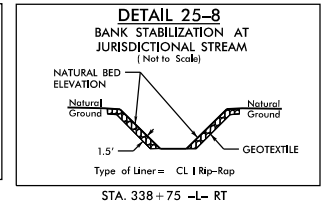
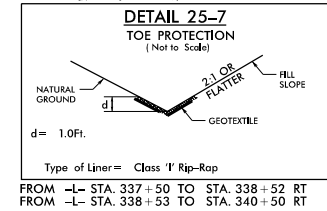
STV 100 Years
 STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SITE 26



LEGEND:
[Symbol] DENOTES IMPACTS IN SURFACE WATER
[Symbol] DENOTES TEMPORARY IMPACTS IN SURFACE WATER

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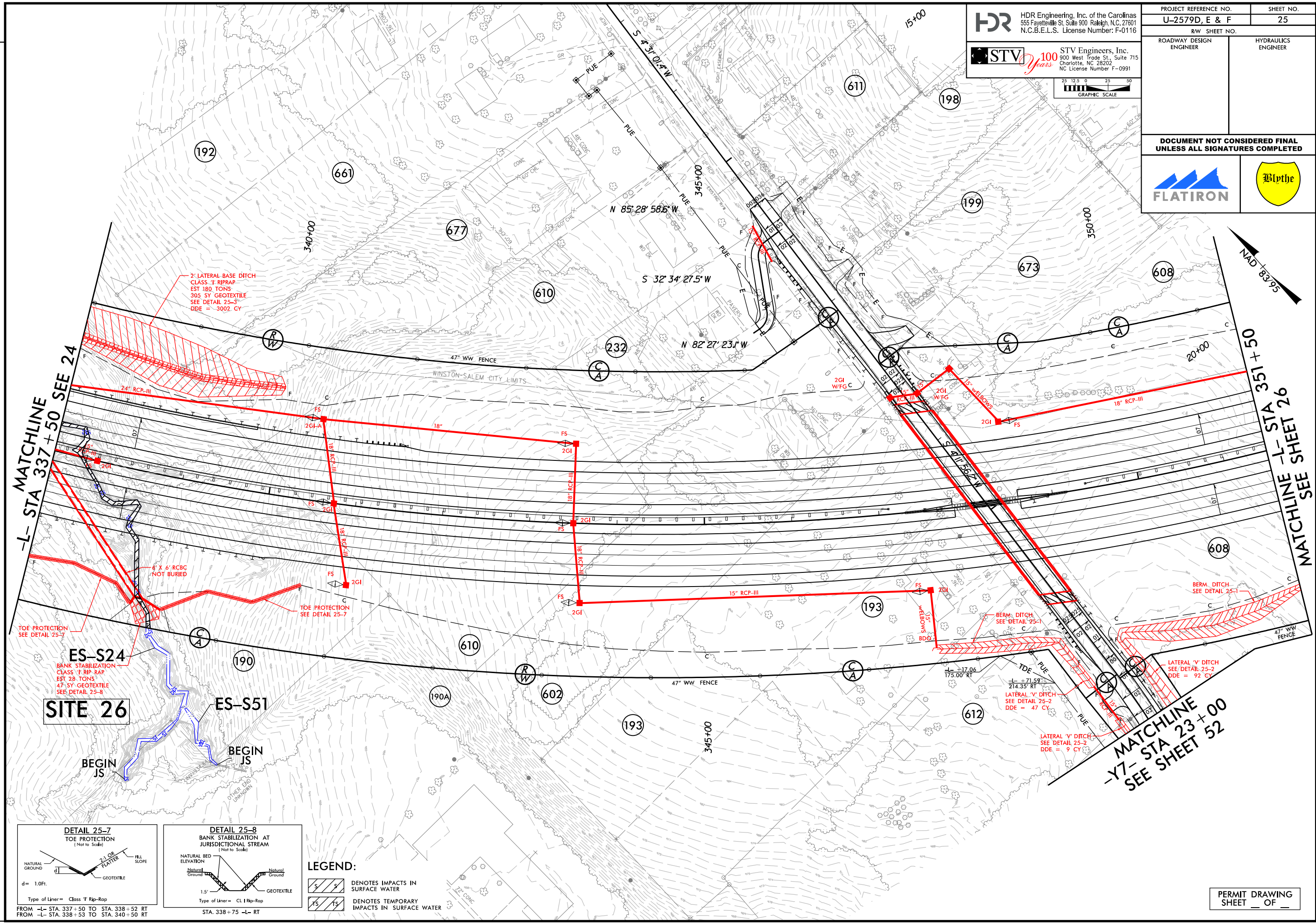
PERMIT DRAWING SHEET ___ OF ___

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 N.C.B.E.L.S. License Number: F-0116

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GRAPHIC SCALE
 25 12.5 0 25 50

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

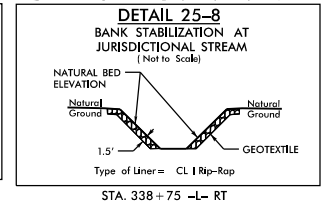
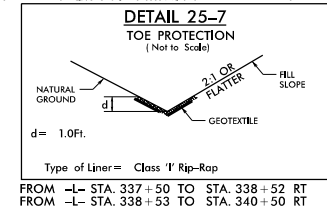


SITE 26

ES-S24
 BANK STABILIZATION
 CLASS 'I' RIP-RAP
 EST 28 TONS
 47 SY GEOTEXTILE
 SEE DETAIL 25-8

BEGIN JS

ES-S51
 BEGIN JS



LEGEND:

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

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5/14/99

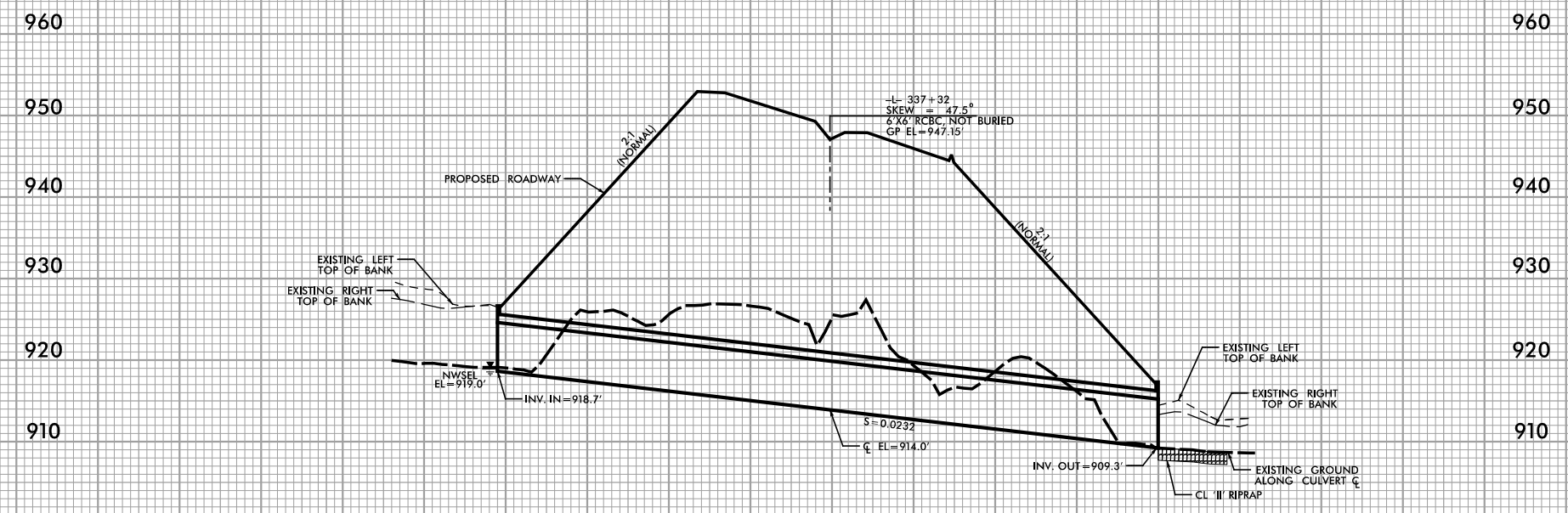
PROJECT REFERENCE NO. <i>U-2579D,E & F</i>	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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

250 200 150 100 50 0 50 100 150 200

SITE 26



PROFILE ALONG ζ OF CULVERT

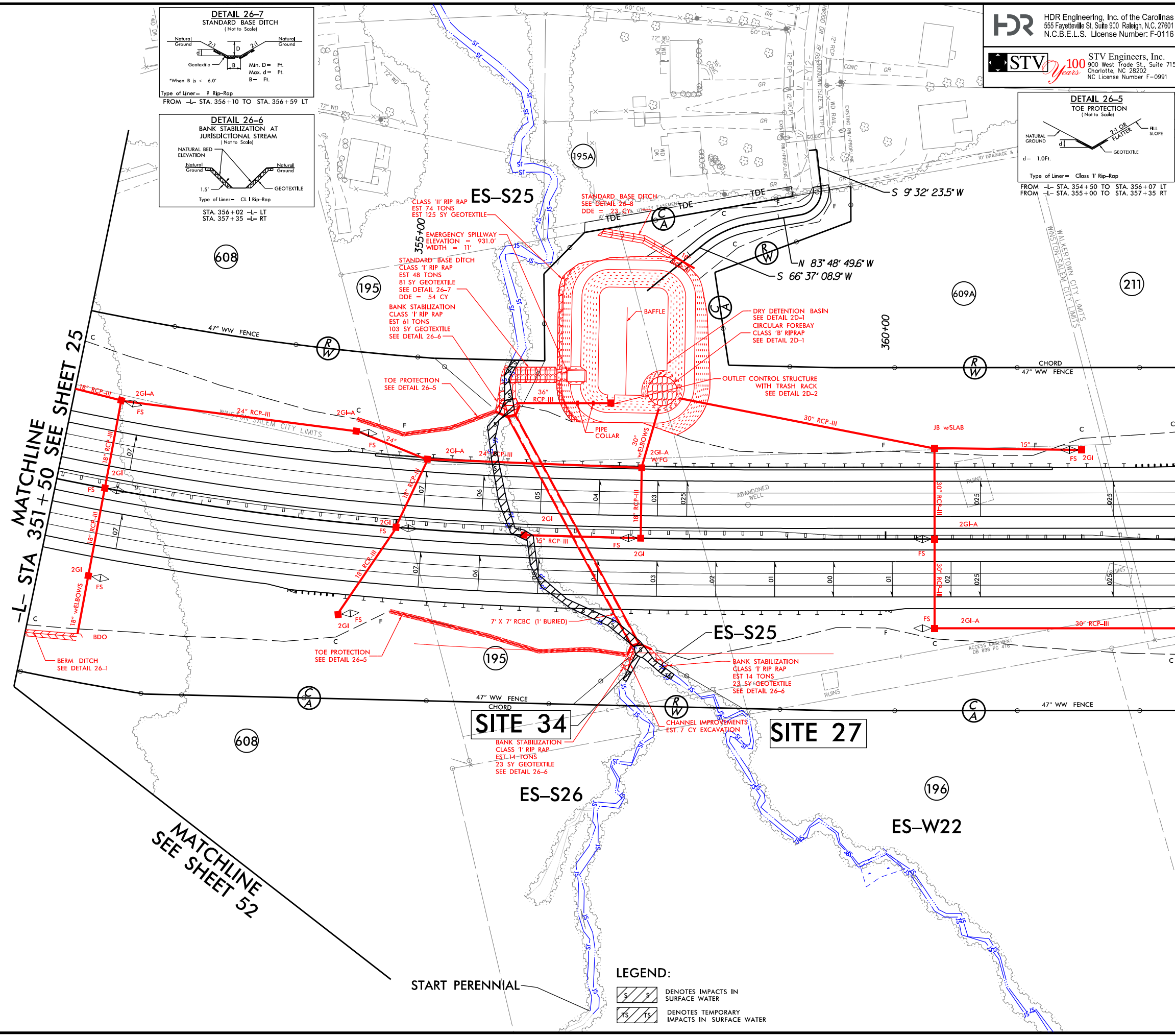
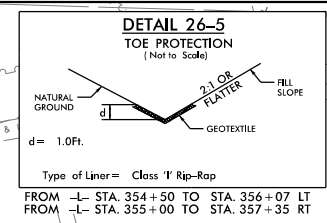
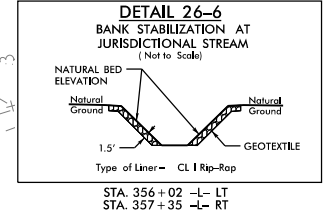
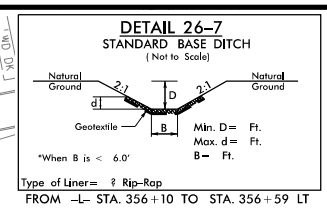
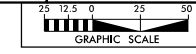
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C:\PROJECTS\U-2579D,E & F\DRAWING

REVISIONS

HDR HDR Engineering, Inc. of the Carolinas
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 Charlotte, NC 28202
 NC License Number F-0991

PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SITE 34
 BANK STABILIZATION
 CLASS 'I' RIP RAP
 EST. 14 TONS
 23 SY GEOTEXTILE
 SEE DETAIL 26-6

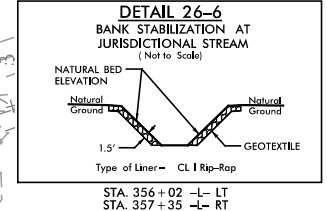
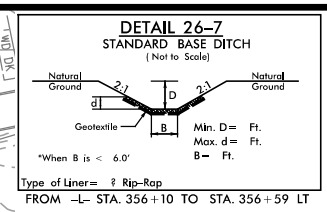
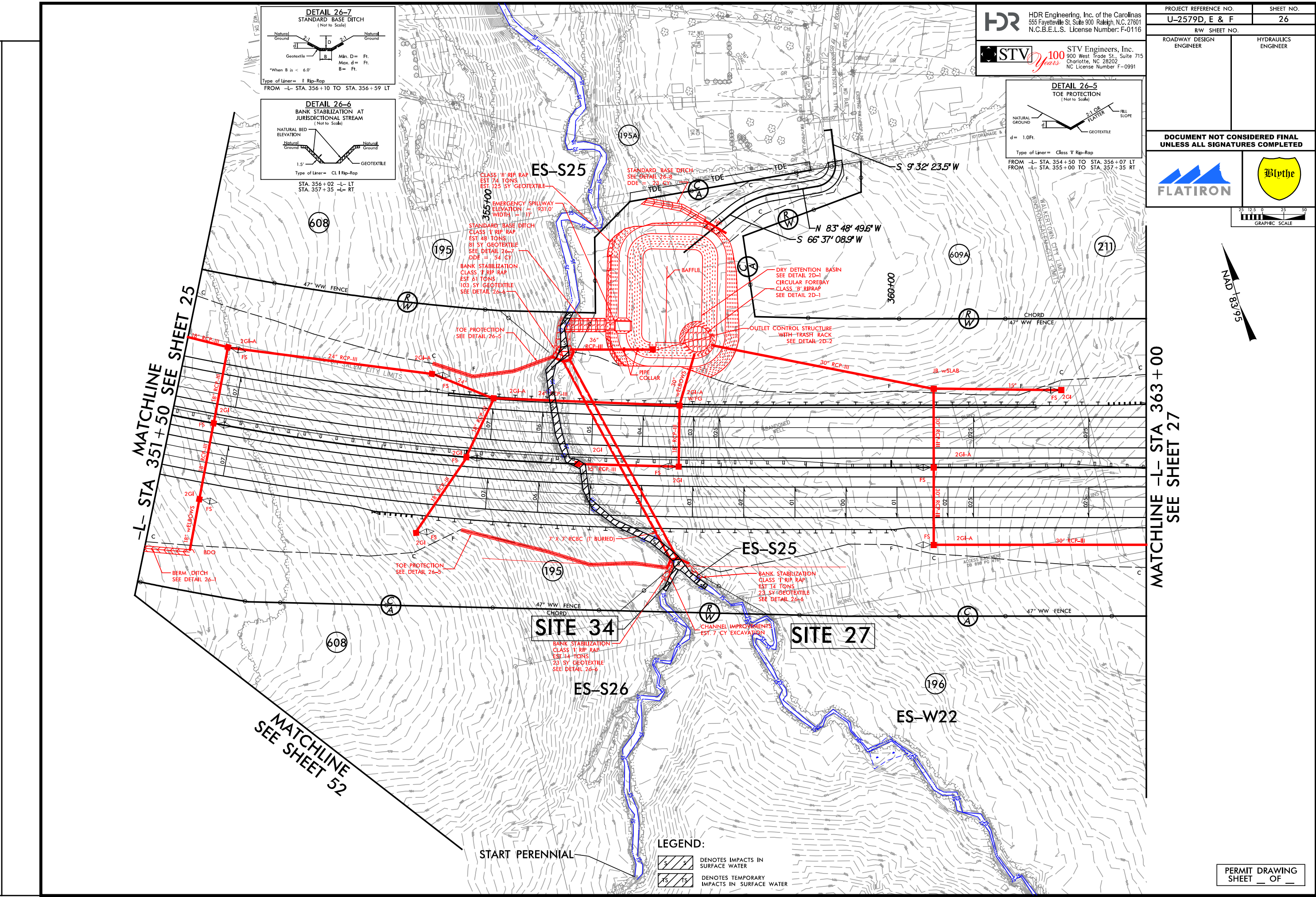
SITE 27
 CHANNEL IMPROVEMENTS
 EST. 7 CY EXCAVATION

LEGEND:

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

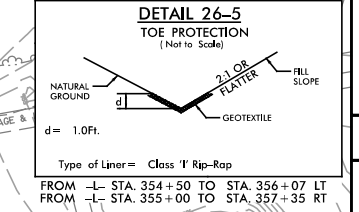
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REVISIONS

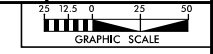


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N.C.B.E.L.S. License Number: F-0116

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Charlotte, NC 28202
NC License Number F-0991



PROJECT REFERENCE NO. U-2579D, E & F	SHEET NO. 26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- STA 351+50 SEE SHEET 25
MATCHLINE

MATCHLINE -L- STA 363+00
SEE SHEET 27

MATCHLINE
SEE SHEET 52

SITE 34

SITE 27

LEGEND:

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

5/14/99

PROJECT REFERENCE NO. SHEET NO.

U-2579D,E & F

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

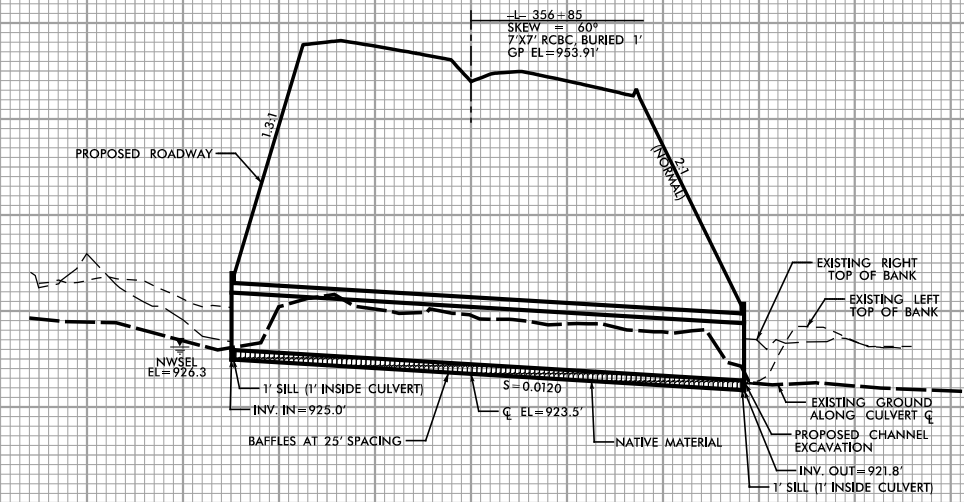
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

250 200 150 100 50 0 50 100 150 200

SITE 27

960
950
940
930
920
910



PROFILE ALONG C OF CULVERT

PERMIT DRAWING SHEET ___ OF ___

6:36:30 AM PRM_CSR_PSH.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)	
11	173+80 -L-	48" RCP							0.04		615		
11A**	174+23 -L- RT	48" RCP	0.08										
12	203+75 - 207+10 -L- RT	ROADWAY FILL							0.02	< 0.01	410	10	
12A	205+69 -L- RT	FILL IN WETLAND	0.08										
13	207+24 -L-	5x6 CULVERT							0.03	< 0.01	337	22	
13A	209+14 -L- LT	4' BASE DITCH				< 0.01							
14	222+50 - 223+56 -L- RT	48" RCP							0.01	< 0.01	220	11	
14A	222+65 -L- LT	POND							3.06				
15	242+86/244+20 -L-	5'x6' RCBC							0.05	< 0.01	520	15	
15A	243+60/244+00 -L-	5'x6' RCBC	0.04										
16	253+92/255+58 -L-	42" RCP AND DITCH							0.05	< 0.01	513	20	
17	261+02/262+96 -L-	6'x6' RCBC							0.08	< 0.01	928	23	
18	275+75/276+78 -L-	42" RCP							0.03	< 0.01	161	11	
19	279+30/280+86 -L-	5'x7' RCBC							0.04	< 0.01	250	11	
19	280+86/281+71 -L-	5' STANDARD BASE DITCH							< 0.01	< 0.01	91	15	
20	280+61/281+66 -L-	REMOVE 2 - 72" CMP							0.02	< 0.01	35	31	
20A	286+51/286+74 -L-	BANK STABILIZATION							< 0.01	< 0.01	16	21	
20B	285+56/285+81 -L-	BANK STABILIZATION							< 0.01	< 0.01	20	21	
20C	285+19/285+65 -L-	TEMPORARY WORK PAD								0.06		165	
21	285+19/285+65 -L-	CHANNEL CHANGE							< 0.01		133		
21	285+19 -L-	BANK STABILIZATION							< 0.01	< 0.01	10	10	
22	303+57/304+09 -L-	30" RCP/ 36" RCP							< 0.01	< 0.01	97	7	
23	316+25/317+41 -L-	6'x6' RCBC							0.04		363		
23	317+40/317+49 -L-	BANK STABILIZATION							< 0.01	< 0.01	28	10	
TOTALS SHEET 2*:			0.20			< 0.01			3.50	0.09	4747	403	0

*Rounded totals are sum of actual impacts

NOTES:

- **Wetland ES-W33 is total take
- Site 24 is a Channel Relocation

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 09/13/2019
 FORSYTH
 U-2579D, E & F
 34839.3.GV7
 SHEET OF

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)
24	316+84/317+01 -L-	CHANNEL CHANGE						< 0.01	< 0.01	120	10	
25	323+23/325+22 -L-	24" RCP						0.02	< 0.01	294	10	
26	335+66/338+74 -L-	6'x6' RCBC						0.05	< 0.01	523	10	
26	338+82 -L-	BANK STABILIZATION						< 0.01	< 0.01	29	8	
27	356+07/357+64 -L-	7'x7' RCBC						0.05		328		
27	356+07 -L- LT	BANK STABILIZATION						< 0.01	< 0.01	35	8	
27	357+63 -L- RT	BANK STABILIZATION						< 0.01	< 0.01	37	12	
28**	397+37/400+85 -L-	ROADWAY FILL	0.26									
29**	398+61/405+73 -L-	ROADWAY FILL / 5' BASE DITCH						0.06		906		
29**	398+61/405+73 -L-	BANK STABILIZATION						< 0.01	< 0.01	40	10	
29A**	401+96 -L-	ROADWAY FILL	< 0.01									
29B**	402+33/405+59 -L-	ROADWAY FILL / 5' BASE DITCH	0.26		0.03	0.01						
30***	409+52/411+61 -L-	54" RCP						0.05	< 0.01	563	14	
30***	409+53 -L-	BANK STABILIZATION						< 0.01	< 0.01	15	10	
31	49+59 - 50+28 -Y3- LT	2' BASE DITCH						< 0.01		57		
32	35+68/37+32 -Y6-	BANK STABILIZATION						0.03	< 0.01	172	19	
33	173+50 -L- LT	CHANNEL IMPROVEMENT TIE-IN						0.03	< 0.01	20	21	
34	357+38/357+49 -L-	BANK STABILIZATION						< 0.01	< 0.01	24	11	
		TOTAL SHEET 1	0.87		< 0.01	0.01		0.49	< 0.01	5694	49	
		TOTAL SHEET 2	0.20			< 0.01		3.50	0.09	4747	403	
		TOTAL SHEET 3	0.53		0.03	0.01		0.30	0.02	3163	143	
TOTALS ALL SHEETS*:			1.60	0.00	0.03	0.03	0.00	4.30	0.11	13604	595	

*Rounded totals are sum of actual impacts

** SITE 28, 29, 29A, AND 29B - SITE 1 IN U-2579C PHASE 2 PERMIT

*** SITE 30 - SITE 2 IN U-2579C PHASE 2 PERMIT

NOTES

- ISOLATED WETLANDS SITE
- SITE 24 IS A CHANNEL RELOCATION

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 09/13/2019
 FORSYTH
 U-2579D, E & F
 34839.3.GV7
 SHEET OF

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Brett Abernathy

Action ID: SAW No. 2017-02112

Project Name: SAW No. 2017-02112, NCDOT/U-2579 DEF, Winston-Salem Northern Beltway

County: Forsyth

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Division of Mitigation Services (NCDMS), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

Instructions to Sponsor: The Sponsor must verify that the mitigation requirements (credits) shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the bank ledger and provide a copy of the signed form and the updated bank ledger to the Permittee, the USACE Project Manager, and the Wilmington District Mitigation Office (see contact information on page 2). The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation*

8-digit HUC and Basin: 03040101, Yadkin River Basin

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
4,321 l.f.				0.04 acres		

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:

8-digit HUC and Basin: 03040101, Yadkin River Basin

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
6,645 l.f.				0.08 acres		

Permitted Impacts Requiring Mitigation*

8-digit HUC and Basin: 03010103, Roanoke River Basin

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
7,319 l.f.				1.05 acres		

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:

8-digit HUC and Basin: 03010103, Roanoke River Basin

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
12,492 l.f.				2.10 acres		

Mitigation Site Debited: NCDMS

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCDMS, list NCDMS. If the NCDMS acceptance letter identifies a specific site, also list the specific site to be debited).

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCDMS), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name: _____

Name of Sponsor's Authorized Representative: _____

Signature of Sponsor's Authorized Representative

Date of Signature

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions: A letter from NCDMS, confirming they are willing and able to accept the applicant's compensatory mitigation responsibility, dated 2/28/2019 was included with the preconstruction notification.

This form is not valid unless signed below by the USACE Project Manager and by the Mitigation Sponsor on Page 1. **Once signed, the Sponsor should provide copies of this form along with an updated bank ledger to: 1) the Permittee, 2) the USACE Project Manager at the address below, and 3) the Wilmington District Mitigation Office, Attn: Todd Tugwell, 11405 Falls of Neuse Road, Wake Forest, NC 27587 (email: todd.tugwell@usace.army.mil).** Questions regarding this form or any of the permit conditions may be directed to the USACE Project Manager below.

USACE Project Manager: Nicholle Braspenickx

USACE Field Office: Charlotte Regulatory Office
US Army Corps of Engineers

8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262

Email: Nicholle.M.Braspenickx.usace.army.mil

Nicholle Braspennick

USACE Project Manager Signature

01/29/2020

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at <http://ribits.usace.army.mil>

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: **North Carolina Department of
Transportation, Brett Abernathy, PLS**

File Number: **SAW No. 2017-02112**

Date: **01/29/2020**

Attached is:

See Section below

<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input checked="" type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx> or the Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

**District Engineer, Wilmington Regulatory Division
Attn: Nicholle Braspenickx
Charlotte Regulatory Office
U.S Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262**

If you only have questions regarding the appeal process you may also contact:

**Mr. Phillip Shannin, Administrative Appeal Review Officer
CESAD-PDO
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 10M15
Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

_____	Date:	Telephone number:
Signature of appellant or agent.		

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Nicholle Braspenickx, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and Approved Jurisdictional Determinations send this form to:

**Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Phillip Shannin, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

LINDA CULPEPPER
Director

November 14, 2019

Mr. Philip S. Harris, III, P.E., CPM
Natural Environment Section Head
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Subject: **Modification to 401 Water Quality Certification** Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for the Winston Salem Northern Beltway from US 52 to US 311 (New Walkertown Road) in Forsyth County. Federal Aid Project No. NHP-0074(213), TIP Nos. U-2579 D, E & F. This will be NCDWR Project No. 19980260 (version 5). U-2579 D, E and F is a Section of the overall Winston Salem Northern Beltway that includes the following projects: Northern Beltway from I-40 to US 52 (TIP Nos. R-2247B Phase 2, CA, CB, CD, D, EA, EB, and EC), from US 52 to US 311 north (U-2579C Phase 2, D, E, and F) and from I-40 Business to US 311 south (U-2579AA and AB).

Dear Mr. Harris:

Attached hereto is a copy of modified Certification No. WQC004131 for TIP U-2579 D, E & F (v5) issued to The North Carolina Department of Transportation (NCDOT) dated November 14, 2019.

For reference, WQC004131 was initially issued on November 14, 2017, revised on November 27, 2017, December 21, 2017 and again on February 7, 2019. Revised version 4 (modification for TIP R-2247EB) was issued on August 13, 2019.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,
DocuSigned by:

Amy Chapman

Linda Culpepper, Director
Division of Water Resources

Electronic copy only distribution:

Nicholle Braspennickx, US Army Corps of Engineers, Charlotte Field Office
Amy Euliss, Division 9 Environmental Officer
Bill Barret, NC Department of Transportation
Carla Dagnino, NC Department of Transportation
Chris Militscher, US Environmental Protection Agency
Claire Ellwanger, US Fish and Wildlife Service
Marla Chambers, NC Wildlife Resources Commission
Beth Harmon, Division of Mitigation Services
File Copy



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000

401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact an additional 26 linear feet (including permanent and bank stabilization impacts) of jurisdictional streams in Forsyth County (and decrease temporary impacts by 13 linear feet). The project shall be constructed pursuant to the modification application dated October 17, 2019. The authorized impacts are as described below:

Table 1. Modifications to Stream Impacts in the Yadkin Pee Dee River Basin, R-2579 D, E, and F.

Site	Stream Designation	Permanent Impacts (linear ft)		Temporary Impacts (linear ft)	Additional Stream Impacts Requiring Mitigation (linear ft)
		Culvert	Bank Stabilization		
23 Current	Perennial	348	26	21	-
23 New		363	28	10	15
26 Current		519	24	20	-
26 New		523	29	18	4

The modification application provides adequate assurance that the discharge of fill material into the waters of the Yadkin Pee Dee River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application for a modification dated October 17, 2019. All the authorized activities and conditions associated with the phased permit Water Quality Certification issued on November 14, 2017 (revised on November 27, 2017, on December 21, 2017, on February 7, 2019, and again on August 13, 2019) still apply except where superseded by this certification.

Should your project change, you are required to notify NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification

1. Compensatory mitigation for the additional 19 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Division of Mitigation Service (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. The DMS has indicated in a letter dated September 29, 2017 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the DMS Mitigation Banking Instrument signed July 28, 2010.

2. This approval is only valid for the purpose and design that you submitted in your application for a modification dated October 17, 2019. All the authorized activities and conditions associated with the phased permit Water Quality Certification issued on November 14, 2017 (revised on November 27, 2017, December 21, 2017, February 7, 2019, and again on August 13, 2019) still apply except where superseded by this certification.

3. Revised drawings for Sites 5, 7, 13, 15, 17, 19, and 27 were also included as part of this modification application and approved herewith. No new impacts resulted from the revisions.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided that the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

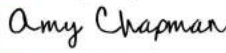
Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center

This the 14th day of November 2019

DIVISION OF WATER RESOURCES

DocuSigned by:

9C9886312DCD474...
Linda Culpepper, Director

WQC No. 004131