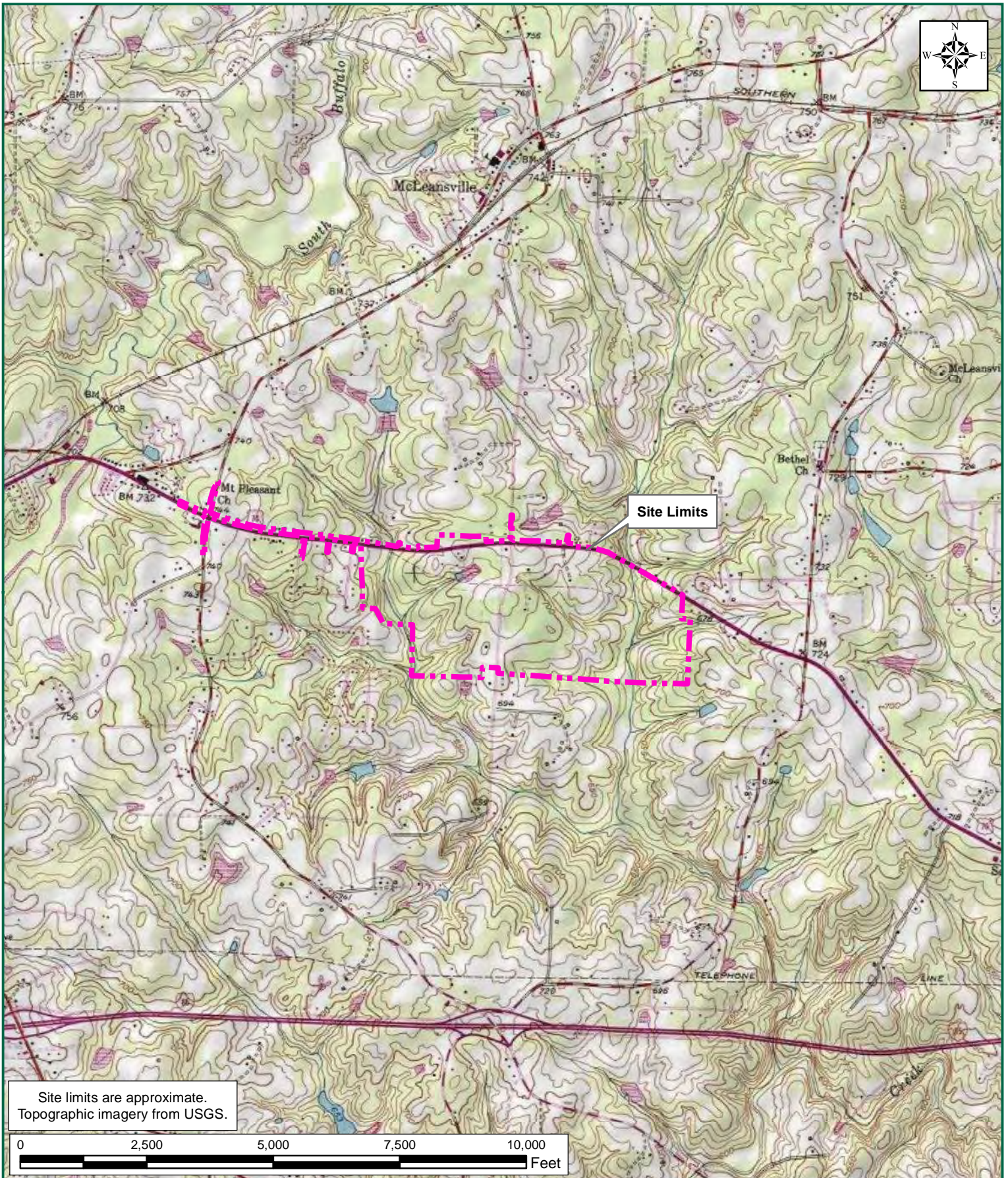
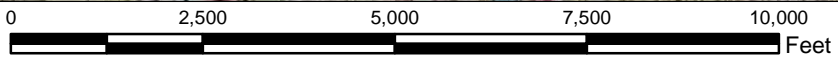


APPENDIX B
FIGURES



Site limits are approximate.
Topographic imagery from USGS.



PUBLIX DISTRIBUTION CENTER
GUILFORD COUNTY, NORTH CAROLINA
FIGURE 1: VICINITY MAP

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.



TIMMONS GROUP JOB NUMBER: 42407
PROJECT STUDY LIMITS: 354.2 ACRES
LATITUDE: 36.079016
LONGITUDE: -79.663402

U.S.G.S. QUADRANGLE(S): MCLEANSVILLE
DATE(S): 2016
WATERSHED(S): HAW (CAPE FEAR RIVER BASIN)
HYDROLOGIC UNIT CODE(S): 03030002

Guilford County Soils	
Mapunit Symbol	Mapunit Name
ApB	Appling sandy loam, 2 to 6 percent slopes
ApC	Appling sandy loam, 6 to 10 percent slopes
CcB	Cecil sandy loam, 2 to 6 percent slopes
ChA	Chewacla loam, 0 to 2 percent slopes, frequently flooded
CrB	Coronaca clay loam, 2 to 6 percent slopes
EnB	Enon fine sandy loam, 2 to 6 percent slopes
EnC	Enon fine sandy loam, 6 to 10 percent slopes
EnD	Enon fine sandy loam, 10 to 15 percent slopes
EoC2	Enon clay loam, 6 to 10 percent slopes, moderately eroded
MhB2	Mecklenburg sandy clay loam, 2 to 6 percent slopes, moderately eroded
VaB	Vance sandy loam, 2 to 6 percent slopes
W	Water
WkD	Wilkes-Poindexter-Wynott complex, 10 to 15 percent slopes
WkE	Wilkes-Poindexter-Wynott complex, 15 to 45 percent slopes
WwC	Wynott-Wilkes-Poindexter complex, 2 to 10 percent slopes



Legend

- Project Limits - 354.2 Acres
- National Hydrography Dataset
- National Wetlands Inventory
- Zone A: 1% Annual Chance Flood Hazard

Hydric Soil Classification

- Hydric
- Partially Hydric
- Non Hydric

TIMMONS GROUP
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 1001 Boulevard Parkway, Suite 300
 Richmond, VA 23225
 TEL: 804-200-6500
 www.timmons.com

PROJECT NAME & LOCATION
PUBLIX DISTRIBUTION CENTER
 GUILFORD COUNTY,
 NORTH CAROLINA

DATE	11/29/2018
PROJECT NUMBER	42407
PROJECT NAME	PUBLIX DISTRIBUTION CENTER
DESIGNED BY / DRAWN BY	A. MEHFOUD

NOTES:
 Project Limits are approximate.
 NWI from US Fish and Wildlife Service.
 Soils data from SSURGO.
 National Hydrography Dataset from USGS.
 Aerial imagery from VGIN.

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REVISIONS	
#	DESCRIPTION

DRAWING DESCRIPTION
FIGURE 3:
 ENVIRONMENTAL
 INVENTORY MAP

SCALE (FEET)

0 360 720
 PLANS PRINTED AS 11X17 ARE HALF SCALE
 SCALE SHEET NUMBER
 H:1" = 350' 1

APPENDIX C
PRELIMINARY CONSTRUCTION DRAWINGS

NOT FOR CONSTRUCTION

THIS DRAWING PREPARED AT THE
GREENSBORO OFFICE
8642 W. Market Street Suite 136 | Greensboro, NC 27409
TEL 336.662.0411 FAX 336.662.0420 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development	Residential	Infrastructure	Technology
DATE			
12/17/2018			
DRAWN BY	J. MOORE		
DESIGNED BY	J. MOORE		
CHECKED BY	J. MATEY		
SCALE	1" = 200'		

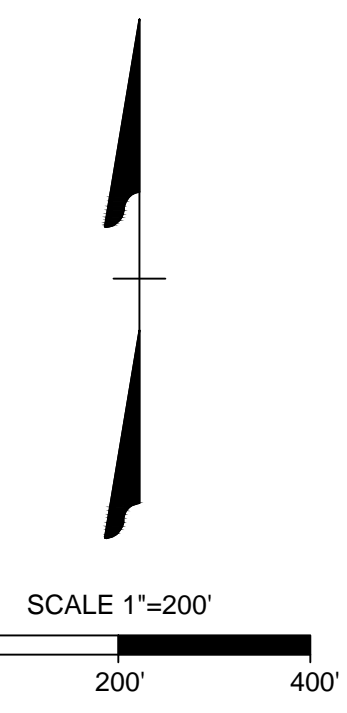
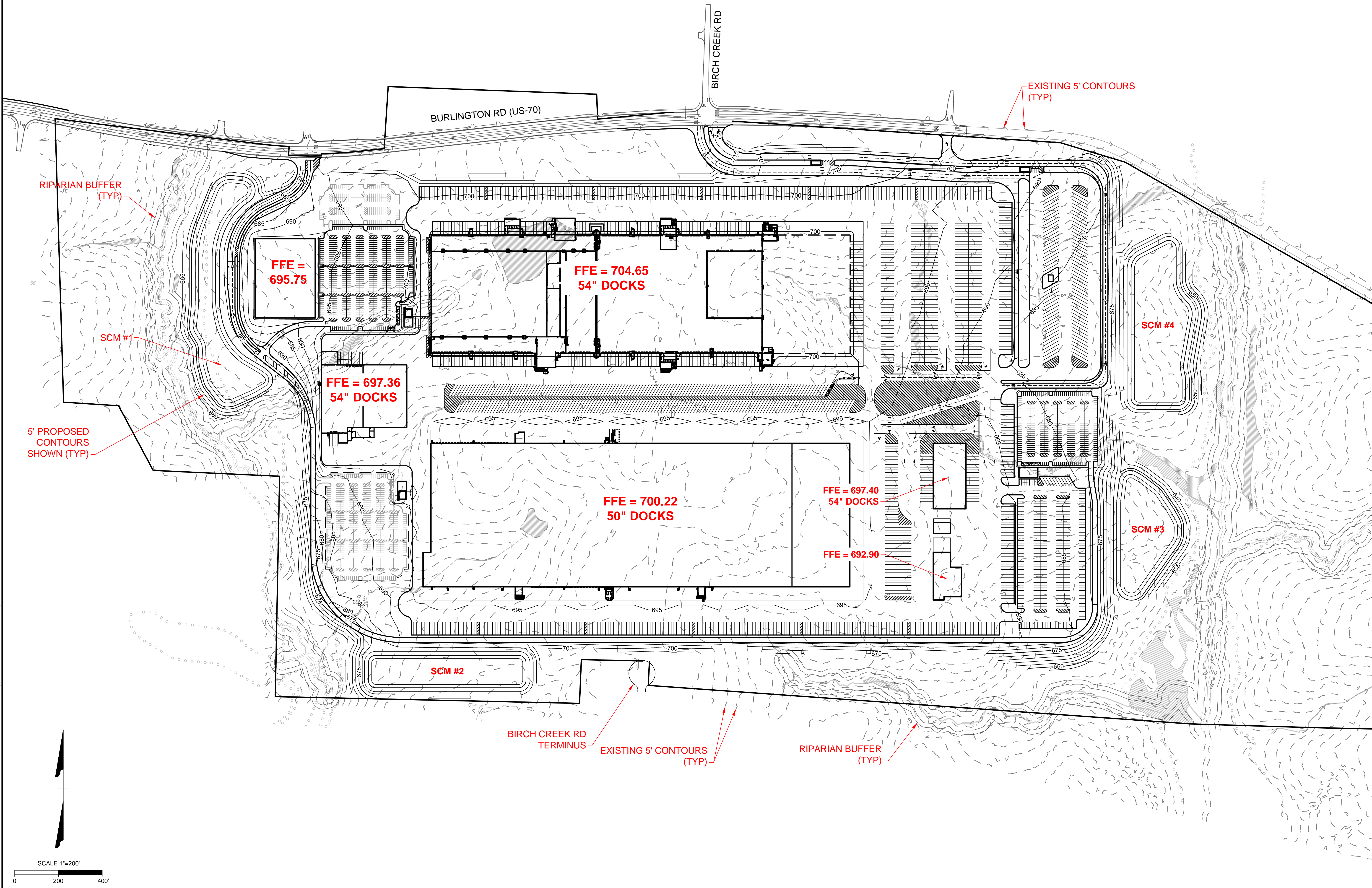
REVISION DESCRIPTION

TIMMONS GROUP

PUBLIX - GREENSBORO DISTRIBUTION CENTER
CITY OF GREENSBORO - GUILFORD COUNTY - NORTH CAROLINA
PRELIMINARY GRADING EXHIBIT

JOB NO.
42407
SHEET NO.
EX1.0

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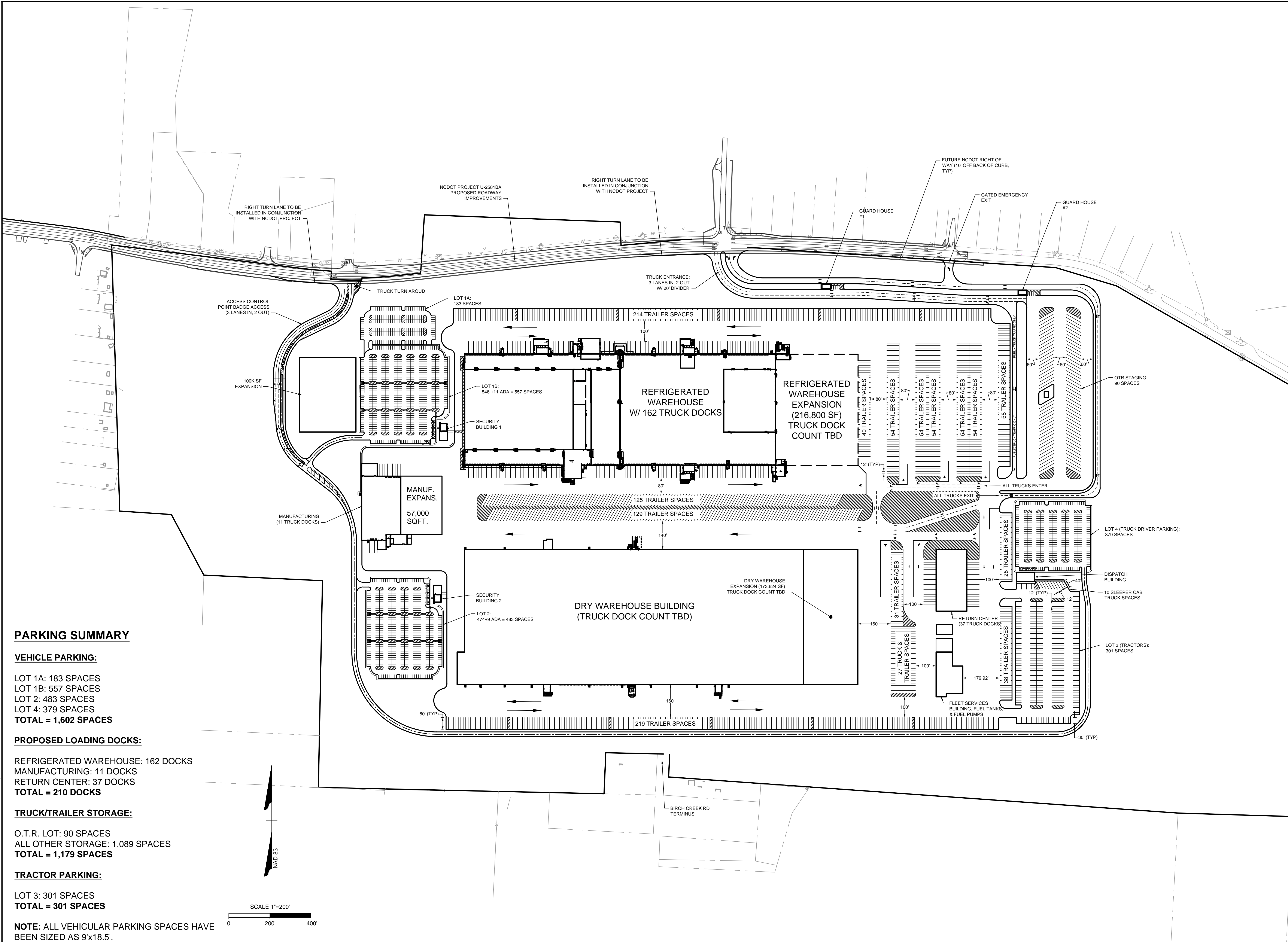
DATE	REVISION DESCRIPTION
12/17/2018	
J. MOORE	DRAWN BY
J. MOORE	DESIGNED BY
J. MATEY	CHECKED BY
1" = 200'	SCALE

TIMMONS GROUP

PUBLIX DISTRIBUTION CENTER - GREENSBORO
 CITY OF GREENSBORO - GUILFORD COUNTY - NORTH CAROLINA

SITE LAYOUT AND PARKING EXHIBIT

JOB NO.	42407
SHEET NO.	EX1.1



PARKING SUMMARY

VEHICLE PARKING:

- LOT 1A: 183 SPACES
- LOT 1B: 557 SPACES
- LOT 2: 483 SPACES
- LOT 4: 379 SPACES
- TOTAL = 1,602 SPACES**

PROPOSED LOADING DOCKS:

- REFRIGERATED WAREHOUSE: 162 DOCKS
- MANUFACTURING: 11 DOCKS
- RETURN CENTER: 37 DOCKS
- TOTAL = 210 DOCKS**

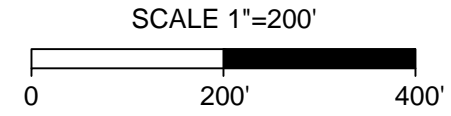
TRUCK/TRAILER STORAGE:

- O.T.R. LOT: 90 SPACES
- ALL OTHER STORAGE: 1,089 SPACES
- TOTAL = 1,179 SPACES**

TRACTOR PARKING:

- LOT 3: 301 SPACES
- TOTAL = 301 SPACES**

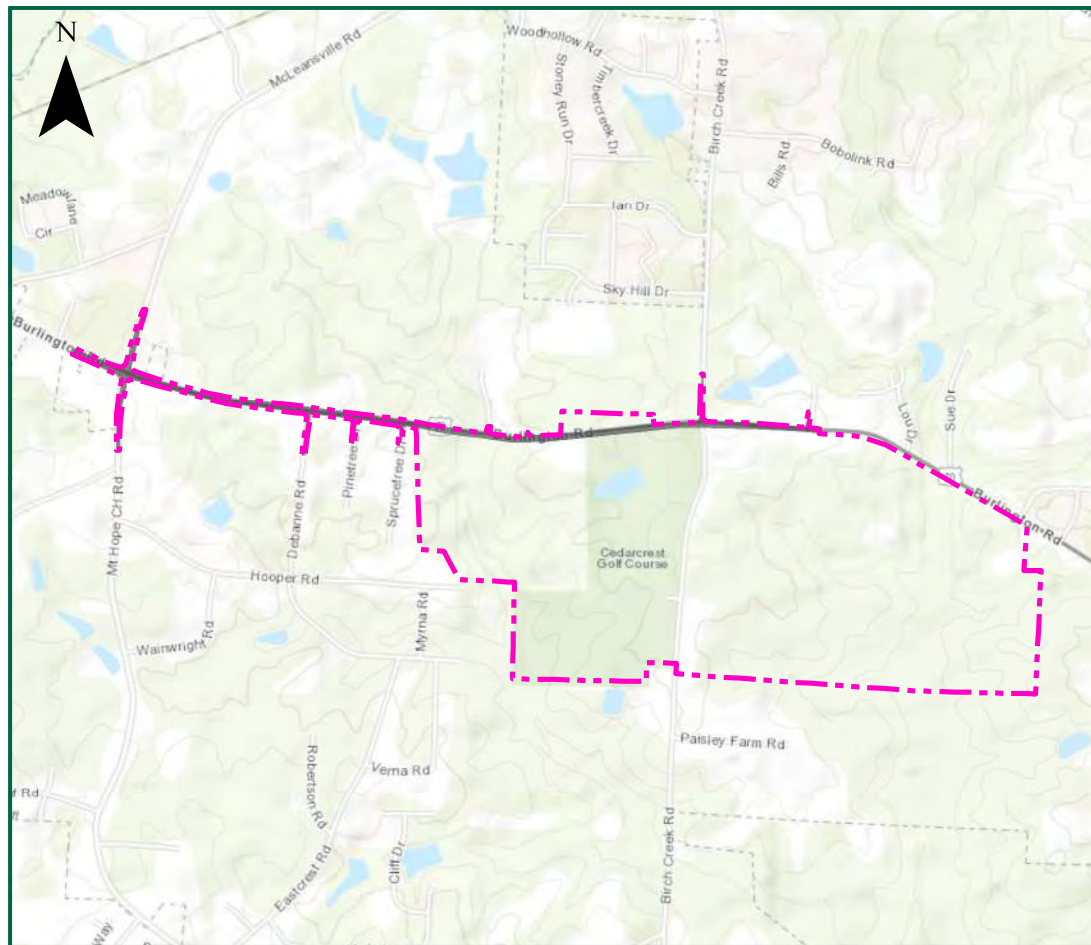
NOTE: ALL VEHICULAR PARKING SPACES HAVE BEEN SIZED AS 9'x18.5'.



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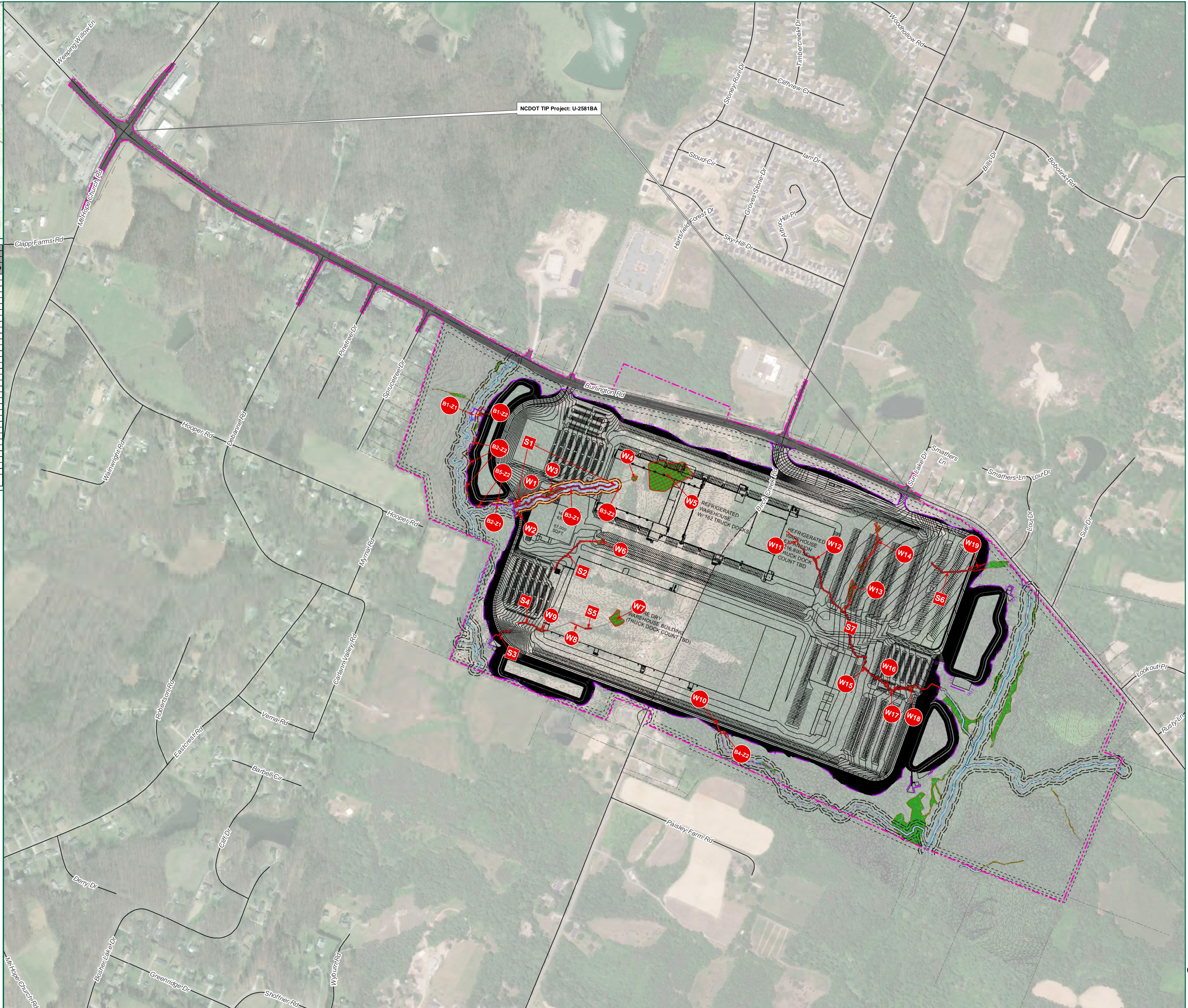
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APPENDIX F
WATERS OF THE U.S. IMPACT MAPS



Impact ID	Impacts Table							
	Wetland (sq. ft)				Stream Buffers (sq. ft)			
	Temporary	Permanent	Conversion	Permanent	Temporary	Permanent	Temporary	Permanent
W1		142						
W2		764						
W3		6,203						
W4		1,468						
W5	66,963							
W6		2,281						
W7	9,160							
W8		255						
W9		316						
W10		261						
W11		519						
W12		1,292						
W13		5,596						
W14		7,167						
W15		132						
W16		67						
W17		87						
W18		3,354						
W19		4,932						
S1								1,030
S2								318
S3								192
S4								283
S5								57
S6								373
S7								2,248
B1-21								2,784
B1-22								1,595
B2-21								717
B2-22								2,523
B3-21								54,019
B3-22								38,616
B4-22								843
B5-22								3,421
Total	0 sq. ft 0.0 ac	76,123 sq. ft 1.8 ac	35,796 sq. ft 0.8 ac	0 sq. ft 0.0 ac	0 sq. ft 0.0 ac	0 sq. ft 0.0 ac	105,518 sq. ft 2.4 ac	0 lf 4,502 lf

- Legend**
- Project Limits - 354.2
 - Limits of Disturbance - 219.9
 - x Stream Impact
 - x Wetland Impact
 - Stream Buffers
 - Zone 1 Buffer Impact
 - Zone 2 Buffer Impact
 - Perennial Stream (R3)
 - Intermittent Stream (R4)
 - Stream Impacts
 - Stream Top of Bank
 - Wetlands
 - Wetland Impacts
 - NC DOT TIP Project: U-2581BA - 15.1 Acres



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 1001 Boulders Parkway, Suite 300
 Richmond, VA 23225
 TEL 804.200.6500
 www.timmons.com

PROJECT NAME & LOCATION
PUBLIX DISTRIBUTION CENTER
 GUILFORD COUNTY,
 NORTH CAROLINA

DATE: 12/18/2018
 PROJECT NUMBER: 42407
 PROJECT NAME: PUBLIX
 DESIGNED BY/DRAWN BY: L. MAJOR

1. Waters of the U.S. within the project study limits have been located using submeter, Bluetooth GPS antennas by Timmons Group.
2. Waters of the U.S. have not been confirmed by the U.S. Army Corps of Engineers.
3. Project limits are approximate.
4. Topography based on USGS LIDAR.
5. Cowardin Stream Classifications are based solely on field observations. No formal Stream assessment methodology was completed to determine these Cowardin Classifications.

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REVISIONS	
#	DESCRIPTION

DRAWING DESCRIPTION
PRELIMINARY JURISDICTIONAL WATERS OF THE U.S. IMPACTS MAP

SCALE (FEET)

0	400	800
PLANS PRINTED AS 11X17 ARCH HALF SCALE		
SCALE	SHEET NUMBER	
H:1" = 400'	1	



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 34840.1.1 TIP No.: U-2581BA County(ies): Guilford Guilford Page 1 of 1

General Project Information

WBS Element:	34840.1.1	TIP Number:	U-2581BA	Project Type:	Roadway Widening	Date:	12/21/2018
NCDOT Contact:	Craig Lee, PE		Contractor / Designer:	Brandon Barham, PE			
Address:	1590 Mail Service Center Raleigh, NC 27699-1590		Address:	940 Main Campus Drive Suite 500 Raleigh, NC 27606			
	Phone:	919-707-6708		Phone:	919-741-5779		
	Email:	cilee@ncdot.gov		Email:	bbarham@vhb.com		
City/Town:	Mcleansville		County(ies):	Guilford			
River Basin(s):	Cape Fear		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	1.5 Miles	Surrounding Land Use:	Residential, Agriculture, Forest					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	14.0	ac.	8.6	ac.				
Typical Cross Section Description:	4@ 12' lanes, 2 @ 6' turn lanes, 2'-6" C&G, 10' sidewalk behind curb			3@10' lanes with variable paved shoulder				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	25,890	Year:	2039	Existing:	15,430	Year:	2019
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project proposes the widening of US 70 (Burlington Rd) from west of SR 3045/SR 2819 (Mt. Hope Church Rd) to just east of SR 3175 Birch Creek Rd. The existing roadway will be widened with proposed C&G with sidewalk behind the curb. There is an existing 1 @ 10' X 6' RCBC with headwall that will be replaced with a 1@ 10' x 8' RCBC with beveled headwall. The proposed culvert will be buried 1' and sills will be included. The culvert conveys UT to Little Alamance Ck underneath US 70 from north to south. UT to Little Alamance Ck is not a FEMA studied stream. The proposed project calls for Rip Rap both upstream and downstream of the new culvert in order to stabilize the existing bed and banks of UT to Little Alamance Ck. Whenever possible proposed drainage systems were stubbed into the side of the proposed box culvert in order to dissipate energy and avoid erosion along the fill slope. All other proposed outfalls within the project will utilize Rip Rap outlet pads to provide energy dissipation and lessen erosive velocities.</p>							

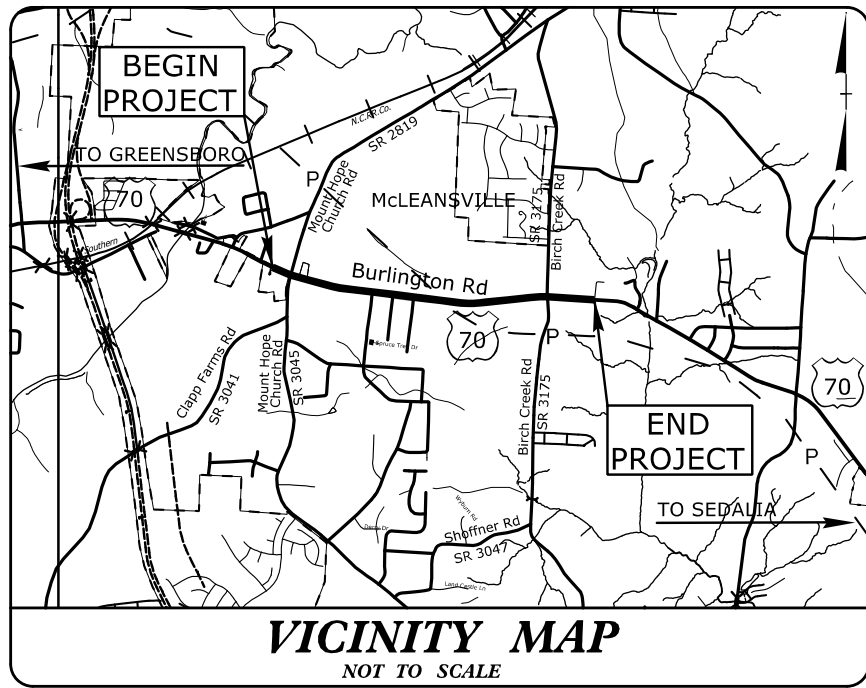
Waterbody Information

Surface Water Body (1):	UT to Little Alamance Creek		NCDWR Stream Index No.:	16-19-3-(0.5)			
NCDWR Surface Water Classification for Water Body	Primary Classification:		Water Supply IV (WS-IV)				
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)				
Other Stream Classification:	None						
Impairments:	None						
Aquatic T&E Species?	Yes	Comments:					
NRTR Stream ID:				Buffer Rules in Effect:	Jordan Lake		
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A		
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
	(If yes, provide justification in the General Project Narrative)						

09/28/19

TIP PROJECT: U-2581BA

See Sheet 1B For Conventional Symbols



VICINITY MAP
NOT TO SCALE

CFI PLANS

BEGIN TIP PROJECT U-2581BA
-L- PC STA. 12 + 32.17

BEGIN CONSTRUCTION
-L- STA. 11 + 85.00

TO DOWNTOWN GREENSBORO

END CONSTRUCTION
-Y2- STA. 18 + 14.00

SITE 1

BEGIN CONSTRUCTION
-Y1- STA. 13 + 45.00

TO MCLEANSVILLE
MT. HOPE CHURCH RD.

END CONSTRUCTION
-Y3- STA. 14 + 50.00

SITE 2

END CONSTRUCTION
-Y4- STA. 12 + 43.00

DEBANNE RD.

END CONSTRUCTION
-Y5- STA. 11 + 85.00

END CONSTRUCTION
-Y5- STA. 11 + 85.00

SITE 3

END CONSTRUCTION
-Y4- STA. 12 + 43.00

PINE TREE DR.

SITE 4

SITE 4

SITE 5

US 70 (BURLINGTON RD.)

MCLEANSVILLE CITY LIMITS

GREENSBORO CITY LIMITS

TO WHITSETT

END TIP PROJECT U-2581BA
-L- POT STA. 91 + 00.00

BEGIN CONSTRUCTION
-Y6- STA. 12 + 90.00

SITE 6

BEGIN CONSTRUCTION
-Y7- STA. 11 + 00.00

END CONSTRUCTION
-L- STA. 91 + 00.00

SUN LAKE DR.

TO MCLEANSVILLE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GUILFORD COUNTY

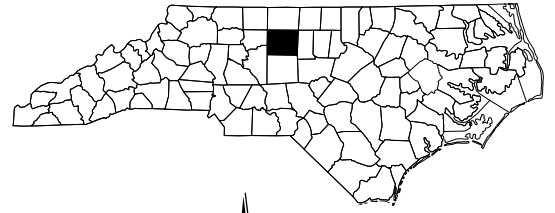
PERMIT DRAWING SHEET 1 OF 14

LOCATION: US 70 (BURLINGTON ROAD) FROM WEST OF SR 3045/SR 2819 (MT. HOPE CHURCH ROAD) TO JUST EAST OF SR 3175 (BIRCH CREEK ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS AND CULVERT

WETLAND AND SURFACE WATER IMPACTS PERMIT

★ EXISTING SIGNAL TO BE MODIFIED



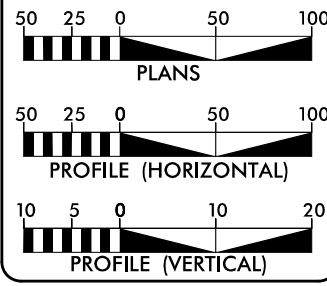
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2581BA	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34840.1.1		PE	
		R/W, UTIL.	
		CONST.	

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF GREENSBORO AND MCLEANSVILLE. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ??.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2019 = 15,430
 ADT 2039 = 25,890
 K = 12 %
 D = 60 %
 T = 6 % *
 V = 50 MPH
 * (TTST 1 + DUAL 5)
 FUNC CLASS =
 PRINCIPAL ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-2581BA = 1.490 MI.
 TOTAL LENGTH OF TIP PROJECT U-2581BA = 1.490 MI.

Prepared for the North Carolina Department of Transportation
In the Office of:



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 30, 2018

LETTING DATE:
OCTOBER 15, 2019

NCDOT CONTACT

JIMMY GOODNIGHT, PE
PROJECT ENGINEER

JERRY JAVELLANA, PE
PROJECT DESIGN ENGINEER

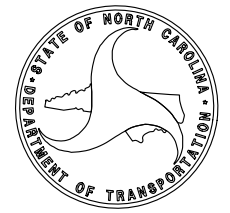
LAURA SUTTON, PE

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

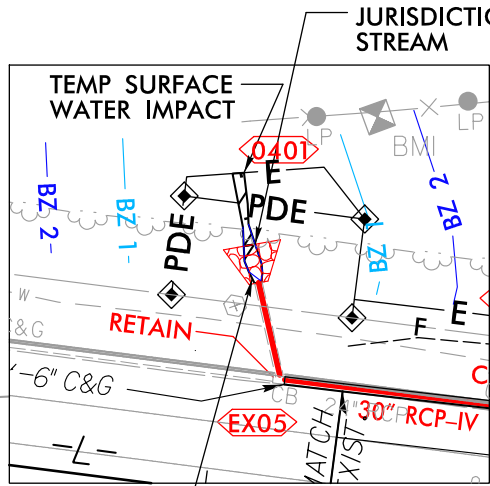
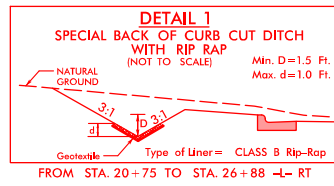
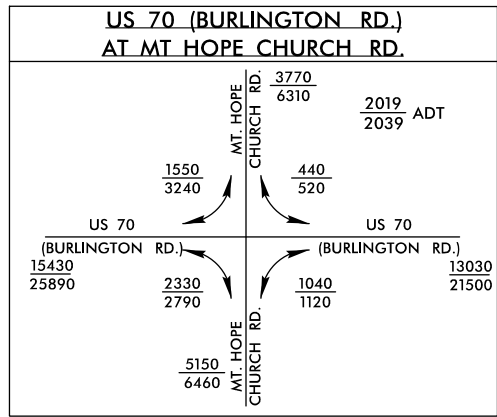


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Boarham

8/17/99

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 $T = 534.24'$
 $R = 4700.00'$
 $SE = 0.025$
 $RO = 105^\circ$
 $INC = 42'$

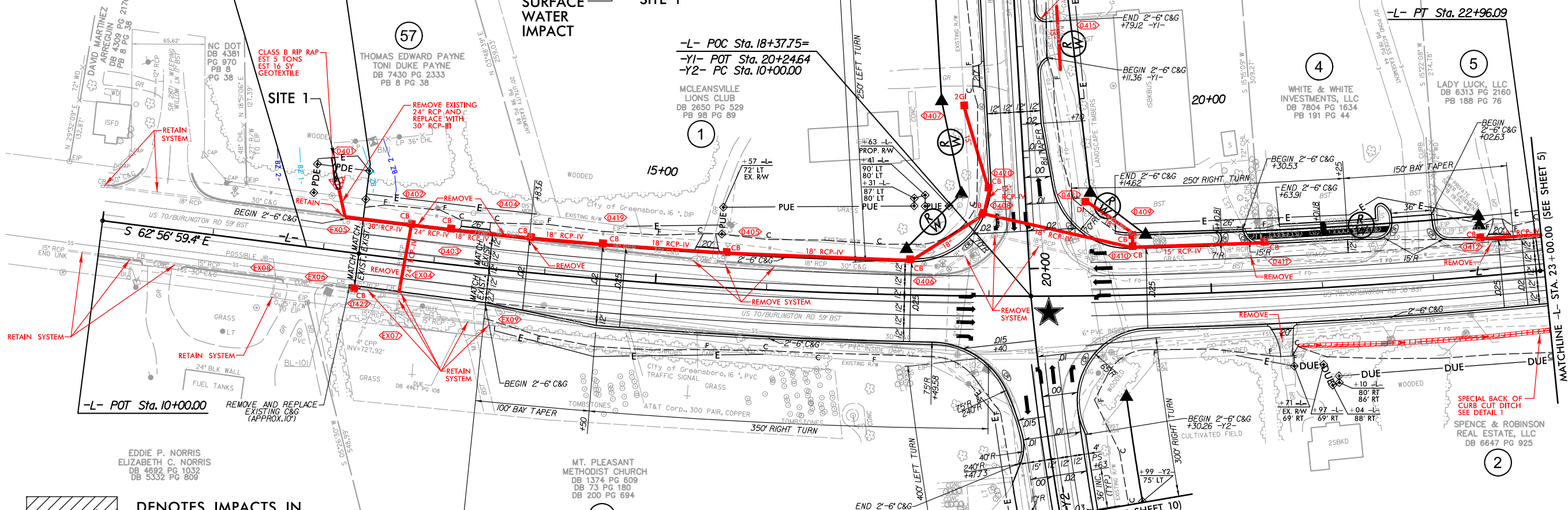
-Y2- CURVE DATA
 PI Sta 13+49.93
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 $T = 349.93'$
 $R = 2720.00'$
 $SE = 0.04$
 $RO = 144'$



BEGIN TIP PROJECT U-2581BA

-L- PC STA. 12+32.17
 BEGIN MILL/RESURFACE
 BEGIN WIDENING (LT SIDE ONLY)

BEGIN CONSTRUCTION
-L- POT Sta. 11+85.00



DENOTES IMPACTS IN SURFACE WATER

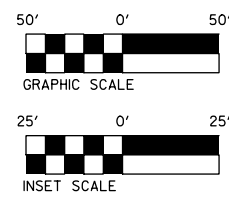


DENOTES TEMPORARY IMPACTS IN SURFACE WATER

BEGIN GRADE
 END MILL/RESURFACE
-L- POT STA. 13+50.00

PERMIT DRAWING SHEET 2 OF 14

PROJECT REFERENCE NO. U-2581BA	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared by vhb VHB Engineering Inc., P.C. (C-27705) 9800 Main Campus Drive, Suite 500 Raleigh, NC 27606	




PROP. 4" CONCRETE SIDEWALK

FOR -L- PROFILE SEE SHEET 11
 FOR -Y1- & -Y2- PROFILES SEE SHEET 14

★ EXISTING SIGNAL TO BE MODIFIED

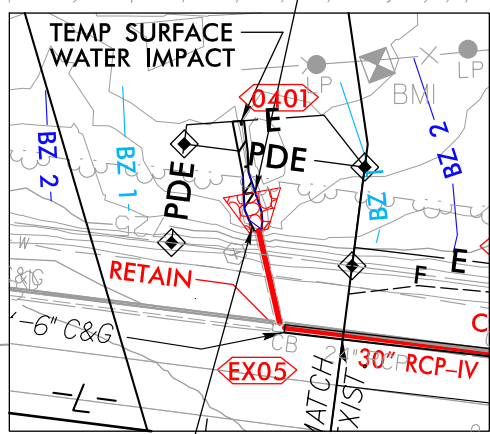
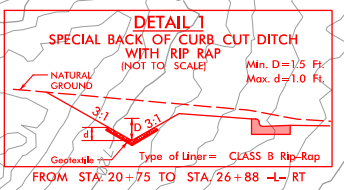
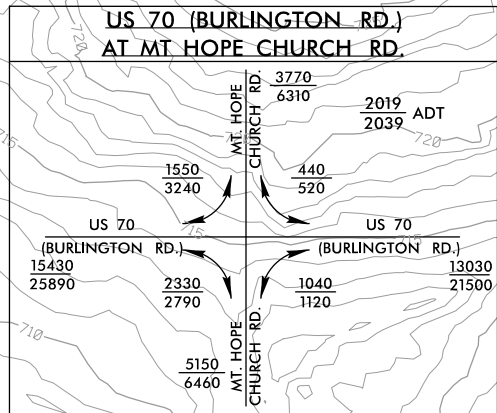
REVISIONS

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PROJECT REFERENCE NO. U-2581BA	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 VHB Engineering, Inc. P.C. (C-2705) 9400 Main Campus Drive, Suite 500 Raleigh, NC 27606	

PERMIT DRAWING
SHEET 3 OF 14

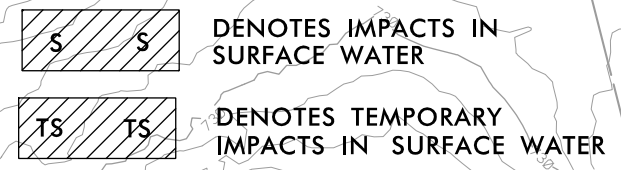
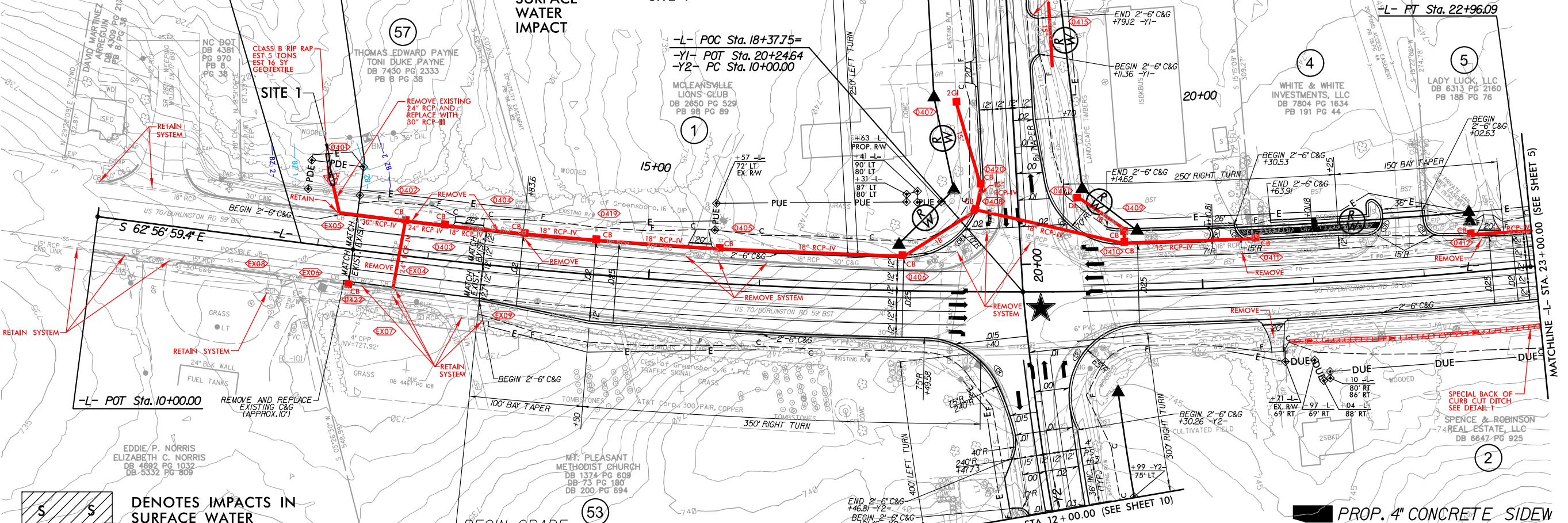
-L- CURVE DATA	-Y2- CURVE DATA
PI Sta 17+66.41	PI Sta 13+49.93
$\Delta = 125^{\circ} 58' 11.1"$ (LT)	$\Delta = 143^{\circ} 39' 42.3"$ (LT)
$D = 113' 08.6"$	$D = 2' 06' 23.3"$
$L = 1063.29'$	$L = 696.04'$
$T = 534.24'$	$T = 349.93'$
$R = 4700.00'$	$R = 2720.00'$
$SE = 0.025$	$SE = 0.04$
$RO = 105^{\circ}$	$RO = 144^{\circ}$
$INC = 42^{\circ}$	



BEGIN TIP PROJECT U-2581BA

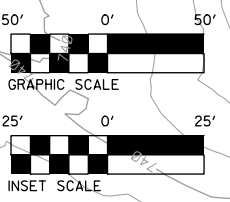
-L- PC STA. 12+32.17
 BEGIN MILL/RESURFACE
 BEGIN WIDENING (LT SIDE ONLY)

BEGIN CONSTRUCTION
-L- POT Sta. 11+85.00



★ EXISTING SIGNAL TO BE MODIFIED


FOR -L- PROFILE SEE SHEET 11
 FOR -Y1- & -Y2- PROFILES SEE SHEET 14

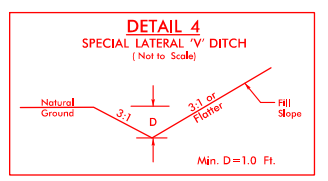
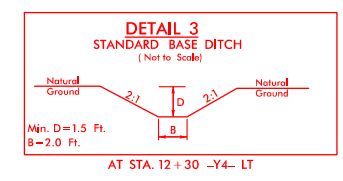


8/17/99
 REVISIONS
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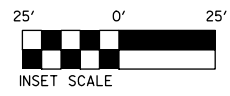
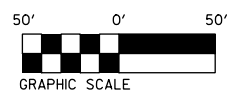
8/17/99

PERMIT DRAWING SHEET 4 OF 14

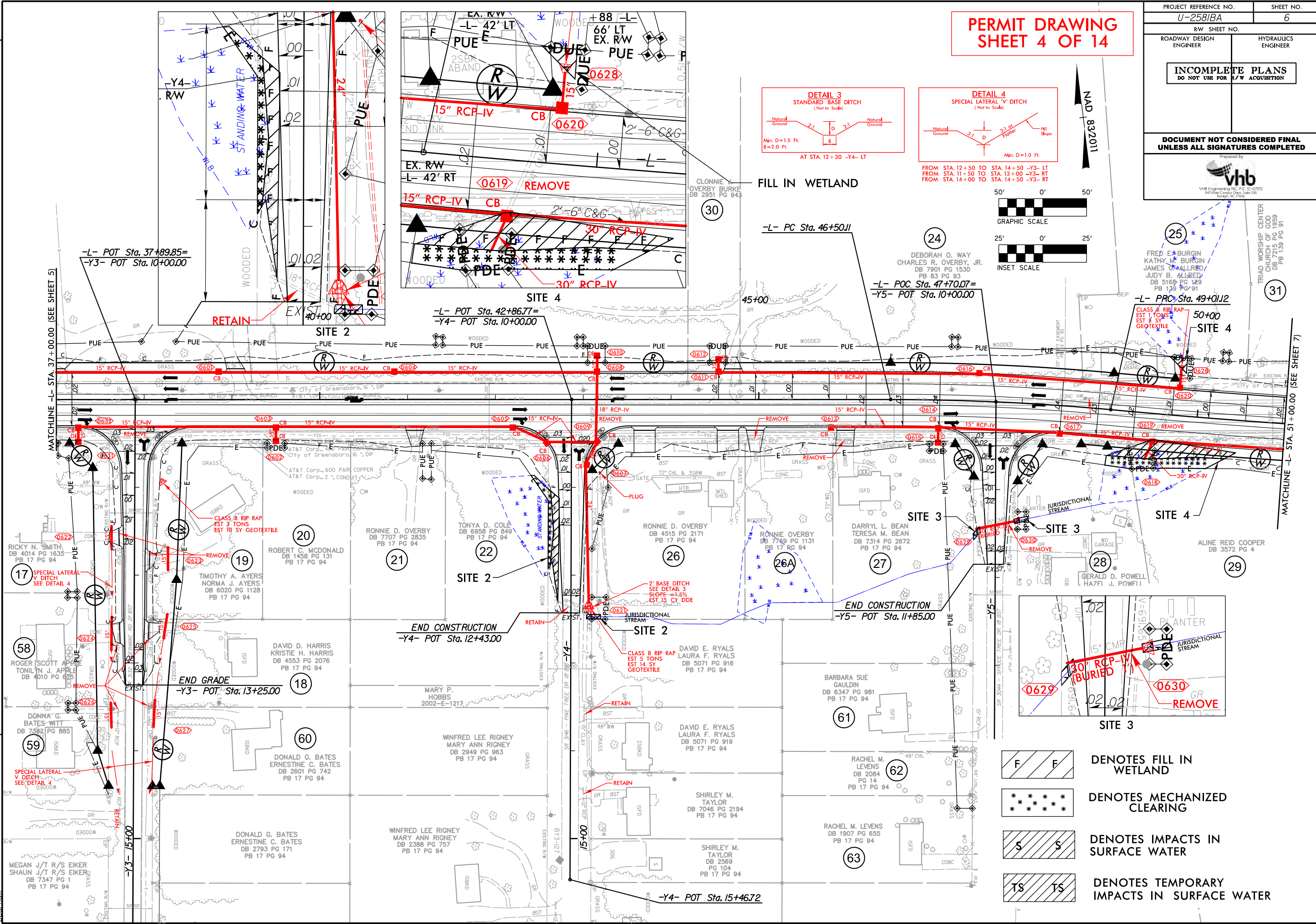
PROJECT REFERENCE NO. U-2581BA	SHEET NO. 6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 VHB Engineering, Inc. P.C. (C-2705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	



FROM STA. 12+50 TO STA. 14+50 -Y3- LT
FROM STA. 11+50 TO STA. 13+00 -Y3- RT
FROM STA. 14+00 TO STA. 14+50 -Y3- RT




REVISIONS
 10/24/09 AM
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 abarham

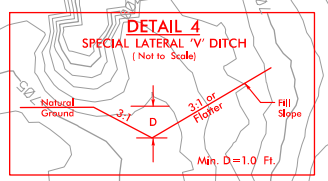
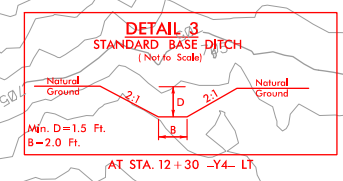


- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

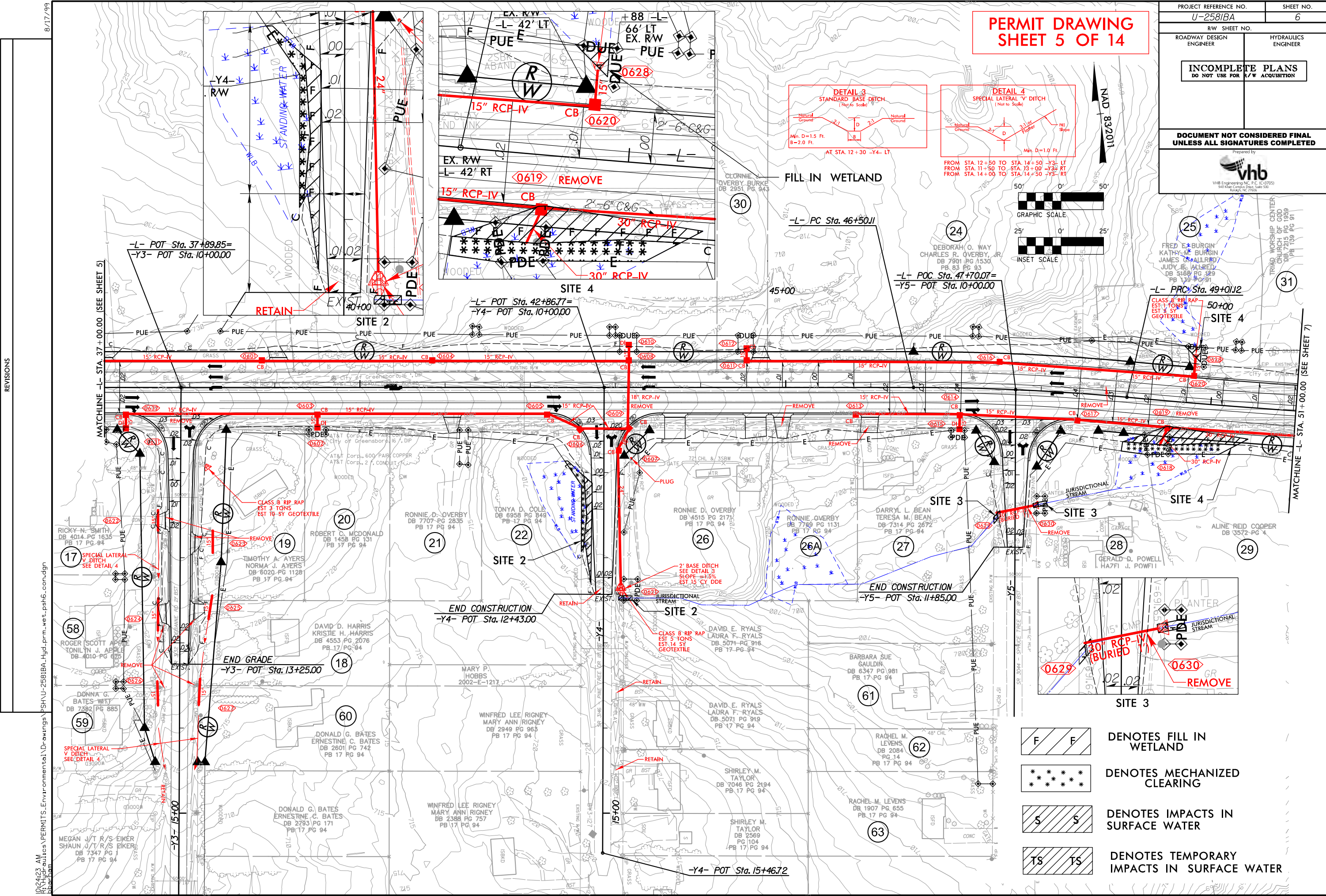
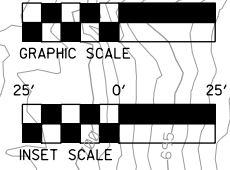
8/17/99





PROJECT REFERENCE NO. U-2581BA	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 VHB Engineering, Inc. P.C. (C-2705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	

PERMIT DRAWING
SHEET 5 OF 14



FROM STA. 12+50 TO STA. 14+50 -Y3- LT
FROM STA. 11+50 TO STA. 13+00 -Y3- RT
FROM STA. 14+00 TO STA. 14+50 -Y3- RT



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

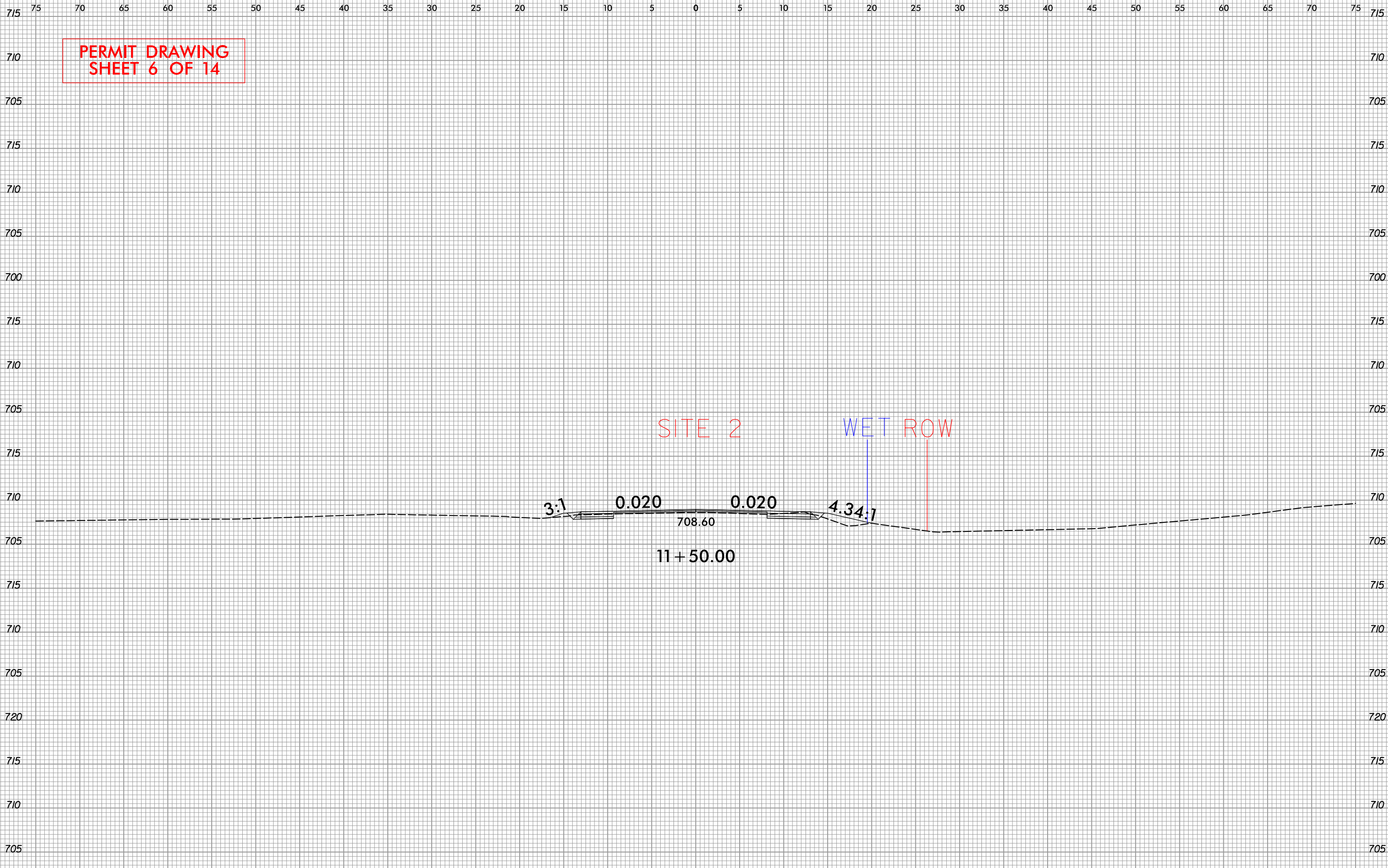
REVISIONS

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 ulacs

MATCHLINE -L- STA. 37+00.00 (SEE SHEET 5)

MATCHLINE -L- STA. 51+00.00 (SEE SHEET 7)

PERMIT DRAWING
SHEET 6 OF 14



SITE 2

WET ROW

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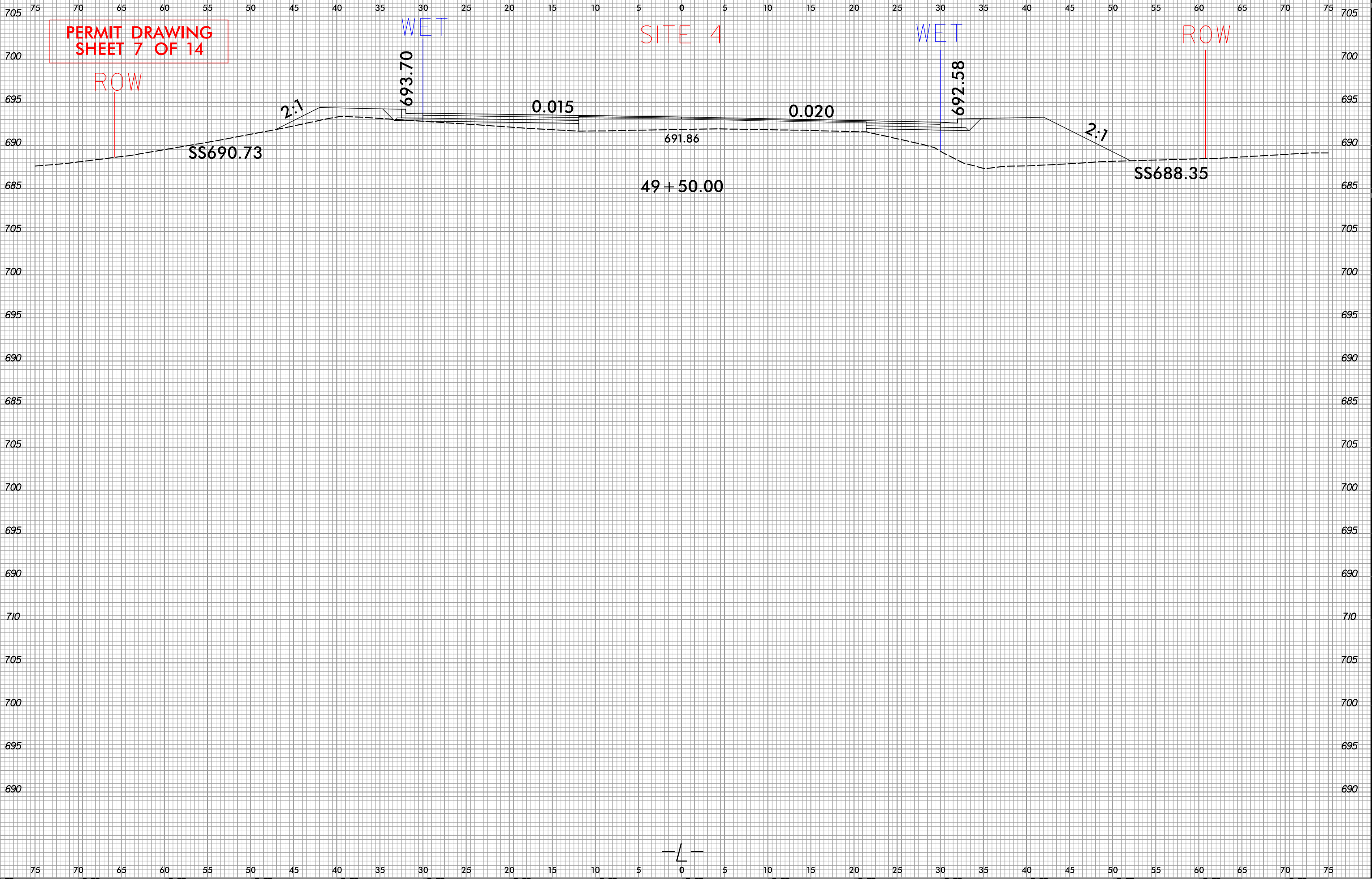
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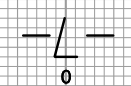
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6/23/16



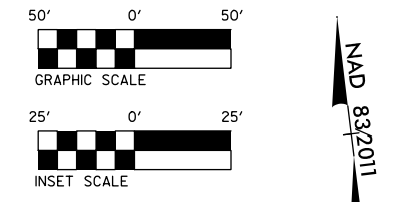
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8/17/99

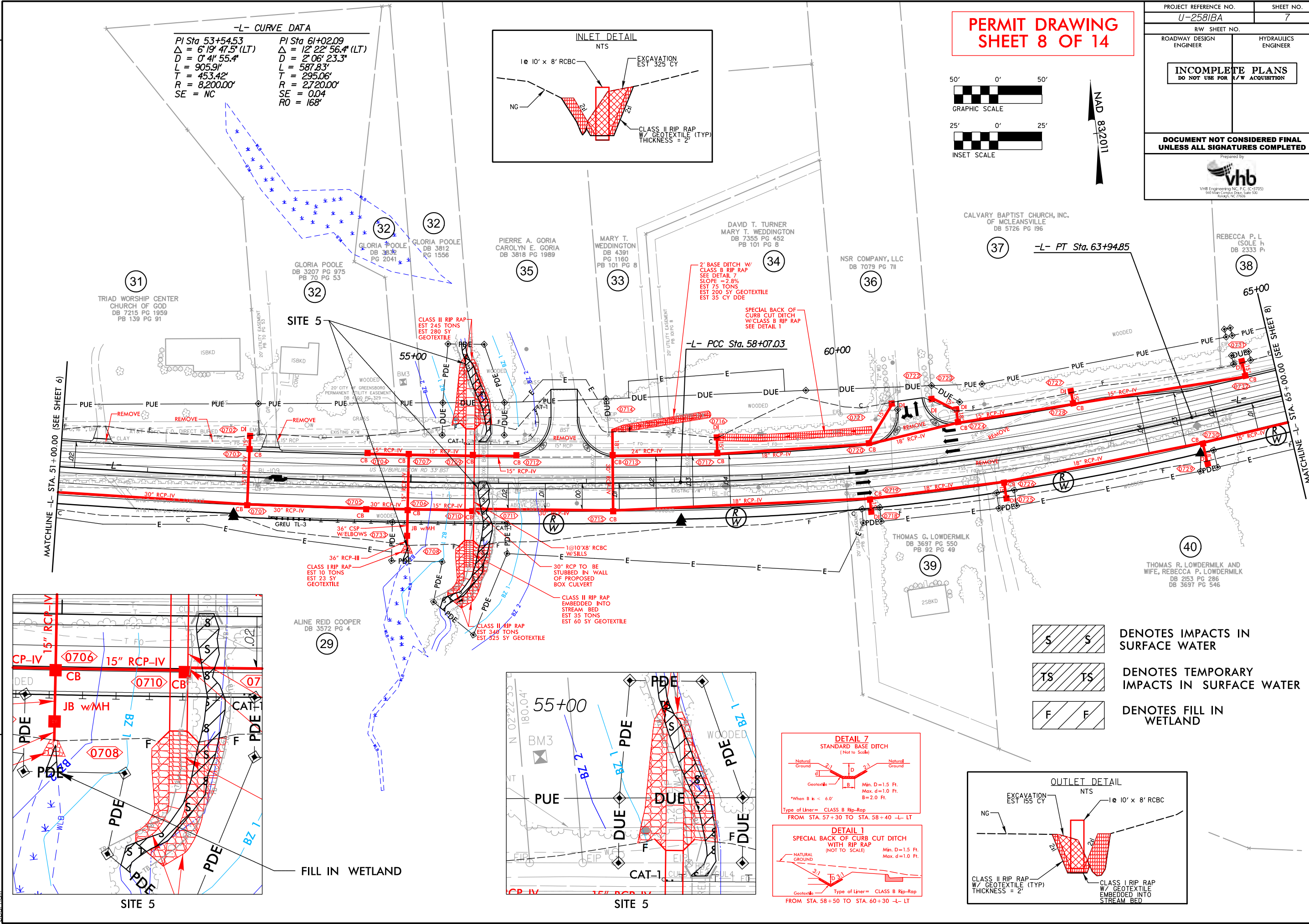
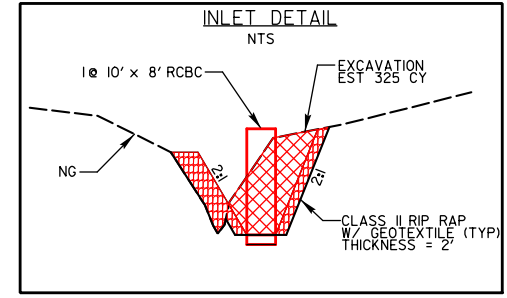
PROJECT REFERENCE NO. U-2581BA	SHEET NO. 7
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared by vhb VHB Engineering, Inc., P.C. (C-2705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605	

PERMIT DRAWING
SHEET 8 OF 14

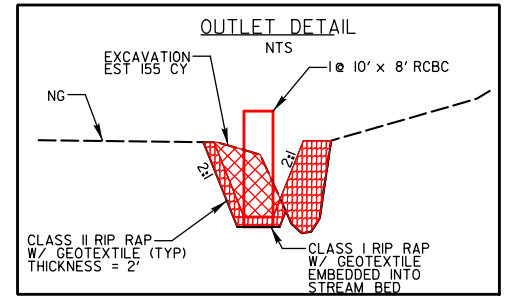
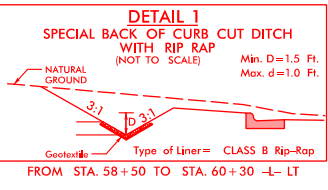
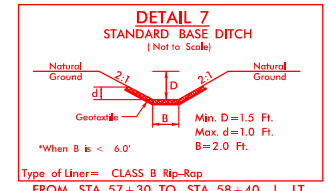
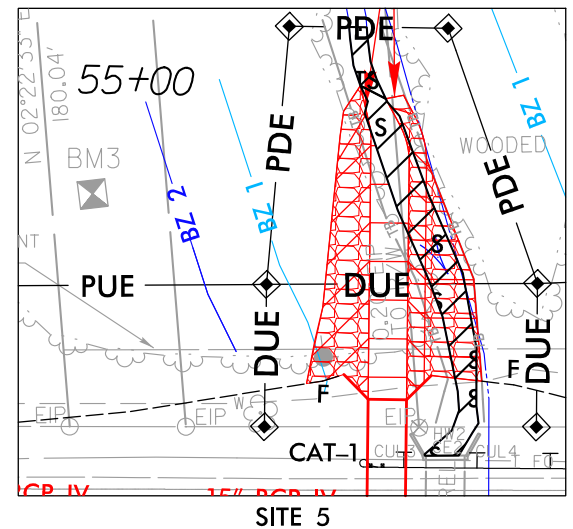
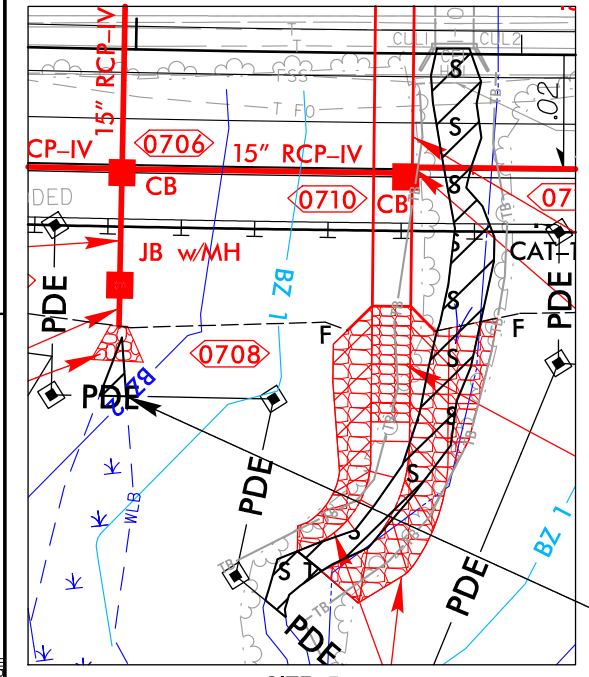


-L- CURVE DATA

PI Sta 53+54.53	PI Sta 61+02.09
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$D = 0' 41'' 55.4''$	$D = 2' 06'' 23.3''$
$L = 905.9'$	$L = 587.83'$
$T = 453.42'$	$T = 295.06'$
$R = 8,200.00'$	$R = 2,720.00'$
SE = NC	SE = 0.04
	RO = 168'



REVISIONS



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

7:36:20 AM
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ababam

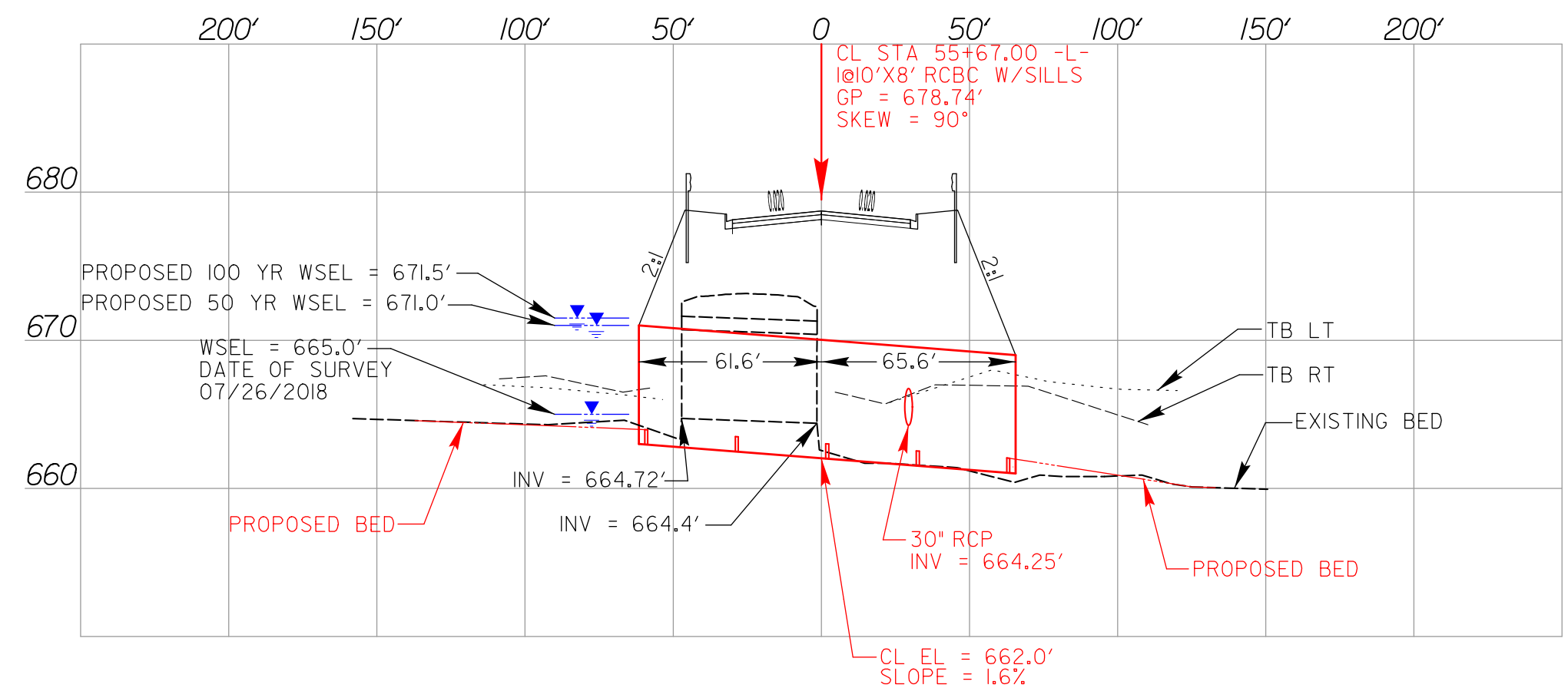
REVISIONS

8/17/99

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abraham

**PERMIT DRAWING
SHEET 10 OF 14**

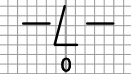
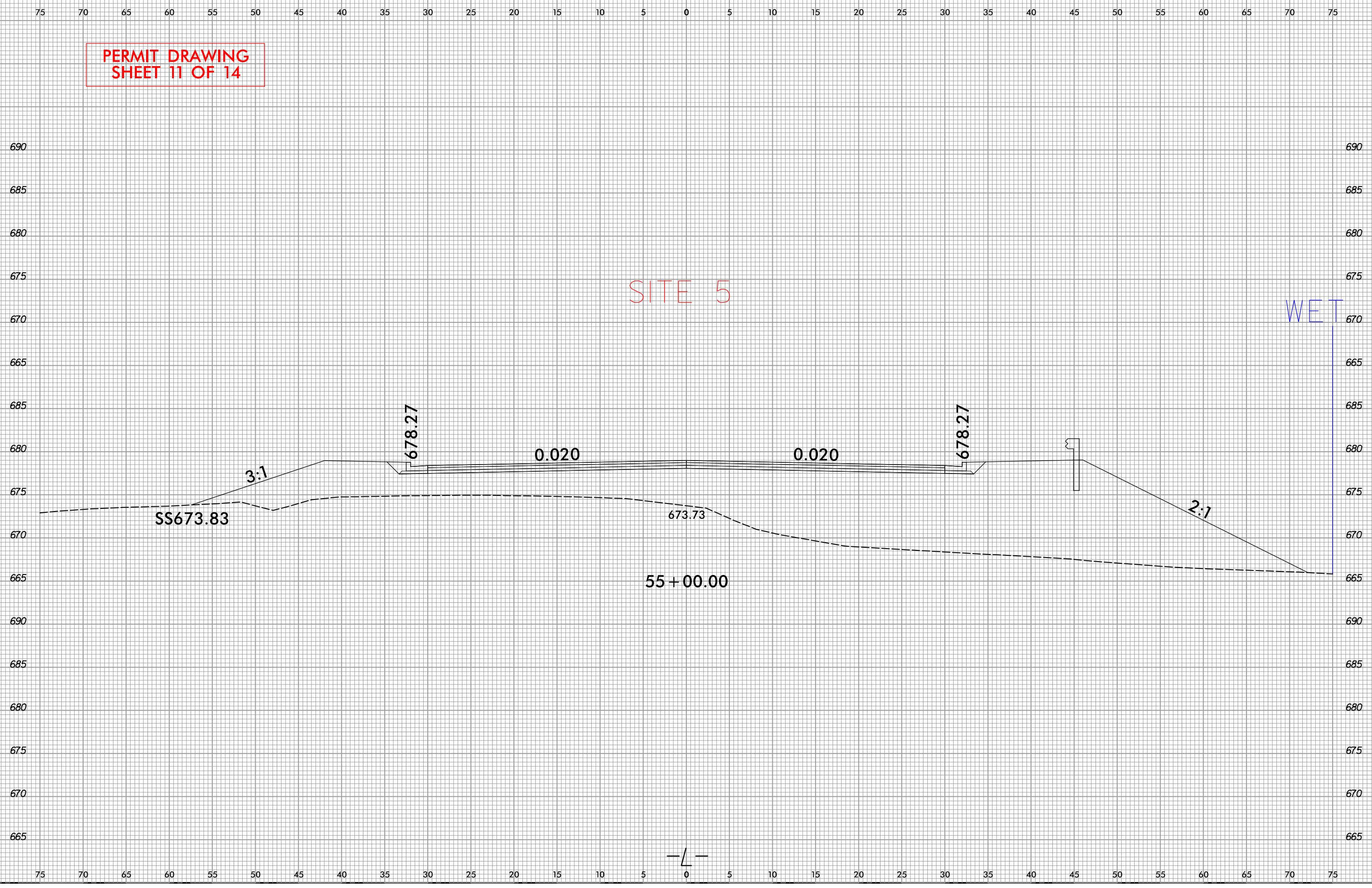
PROJECT REFERENCE NO. <i>U-2581BA</i>	SHEET NO.
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PERMIT DRAWING
SHEET 11 OF 14

SITE 5

WET



**PERMIT DRAWING
SHEET 12 OF 14**

PROJECT REFERENCE NO. U-2581BA	SHEET NO. 9
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Prepared by
vhb
VHB Engineering, Inc. P.C. (C-0105)
940 Kilar, Campus Drive, Suite 500
Reno, NV 89509

MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

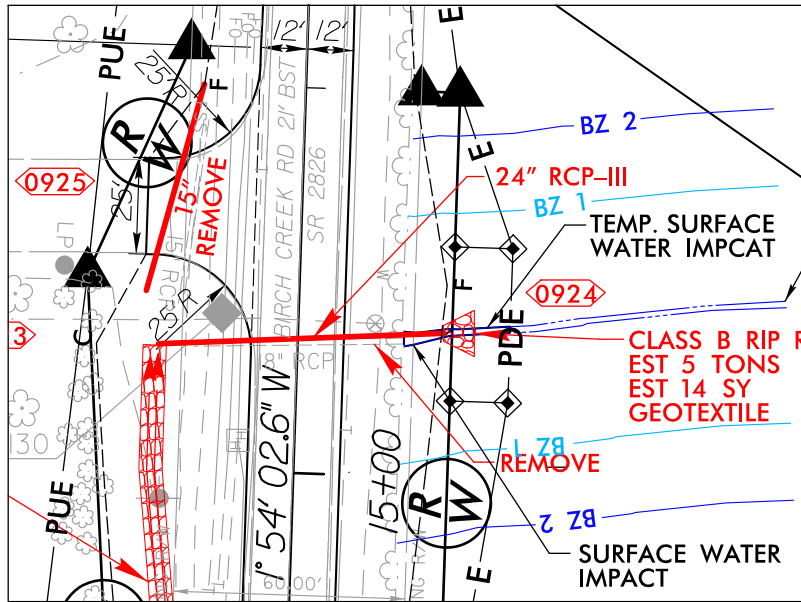
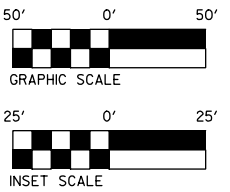
MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

MORRIS PHILIP ALLISON
SARA LYN SZOSTAK
DB 7928 PG 2602
PB 21 PG 15

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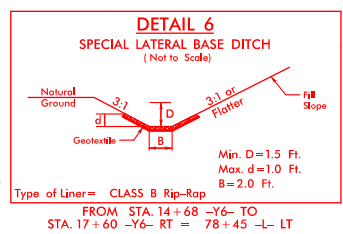
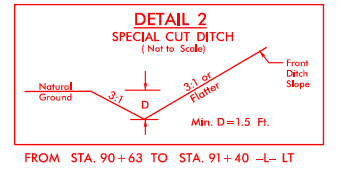
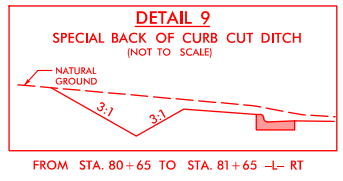
-L- CURVE DATA
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 $D = 0^\circ 42' 10.9''$
 $L = 1,453.20'$
 $T = 728.53'$
 $R = 8,150.00'$
SE = NC



**US 70 (BURLINGTON RD.)
AT BIRCH CREEK RD.**

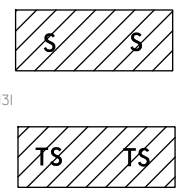
	BIRCH RD.	2020 2870	2019 2039	ADT
13740 22450	830 1290	1190 1580		14100 22740

US 70 (BURLINGTON RD.)



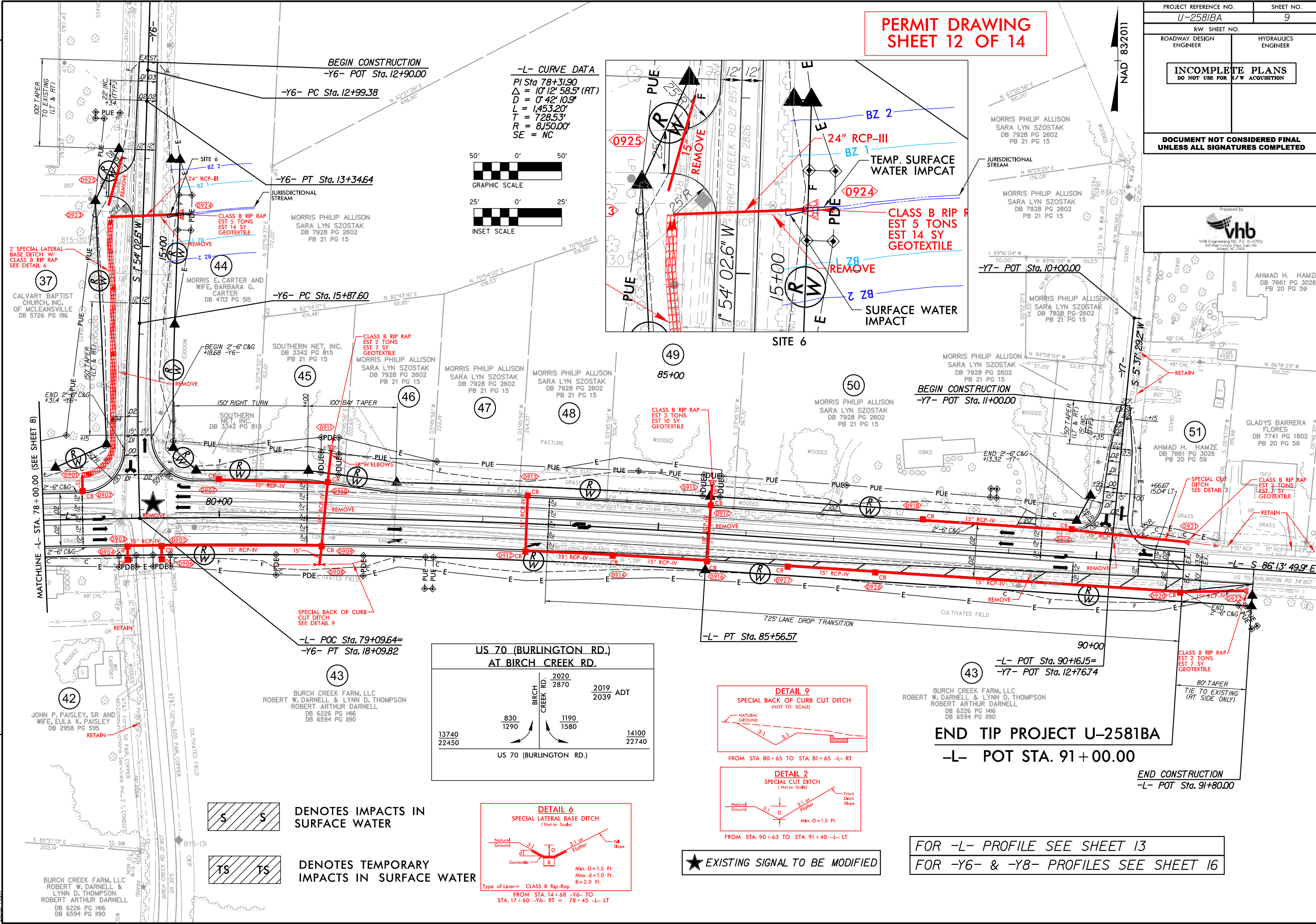
★ EXISTING SIGNAL TO BE MODIFIED

FOR -L- PROFILE SEE SHEET 13
FOR -Y6- & -Y8- PROFILES SEE SHEET 16



S DENOTES IMPACTS IN SURFACE WATER

TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER




8/17/99
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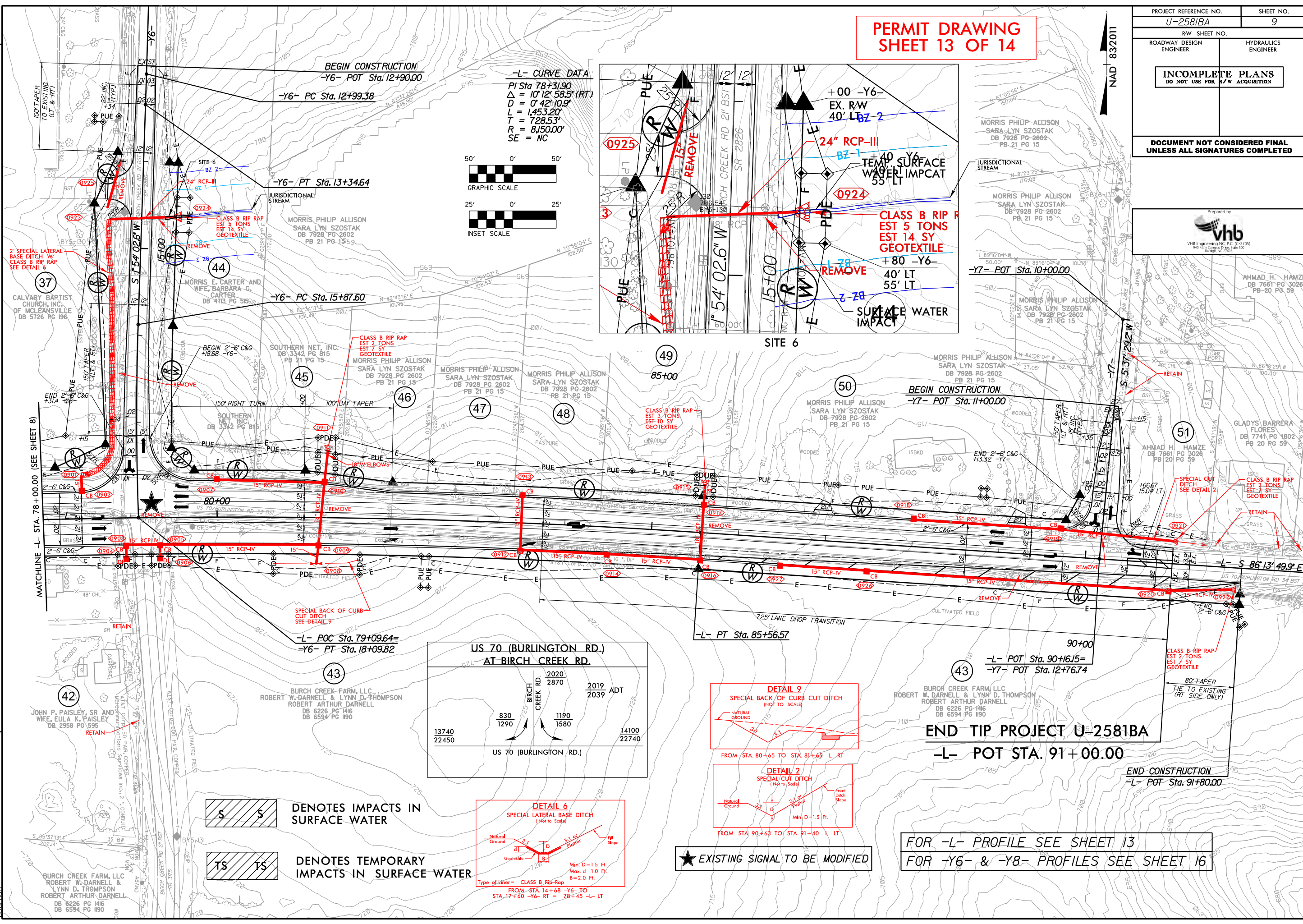
**PERMIT DRAWING
SHEET 13 OF 14**

PROJECT REFERENCE NO. U-2581BA	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Prepared by

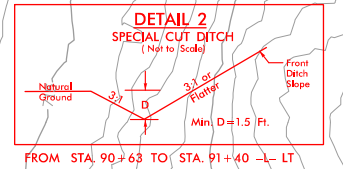
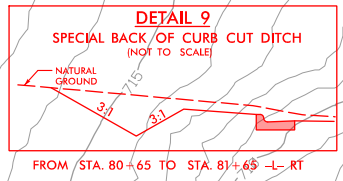
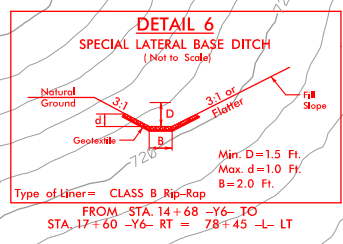


VHB Engineering, Inc. P.C. (L-00100)
940 Kilar, Campus Drive, Suite 500
Kearney, NE 68904



S S DENOTES IMPACTS IN SURFACE WATER

TS TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER



END TIP PROJECT U-2581BA
-L- POT STA. 91+00.00

END CONSTRUCTION
-L- POT STA. 91+80.00

REVISIONS

7:36:52 AM
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8/17/99

WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	12+02/12+07 -L- LT	30" RCP						< 0.01	< 0.01	10	19	
2	10+86/12+50 -Y4- RT	Roadway Fill/24" Pipe	0.02			0.01		< 0.01	< 0.01	6	10	
3	11+30/11+50 -Y5-	30" RCP								11	16	
4	49+00/50+47 -L-	Roadway Fill	0.05			0.03						
5	54+92/55+93 -L-	1@10'x8' RCBC/Roadway Fill	< 0.01					0.05	< 0.01	251	33	
6	14+60/14+66 -Y6- LT	24" RCP						< 0.01	< 0.01	20	15	
TOTALS*:			0.07			0.04		0.05	< 0.01	298	93	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 01/18/2019
 GUILFORD COUNTY
 U-2581BA

 SHEET 14 OF 14