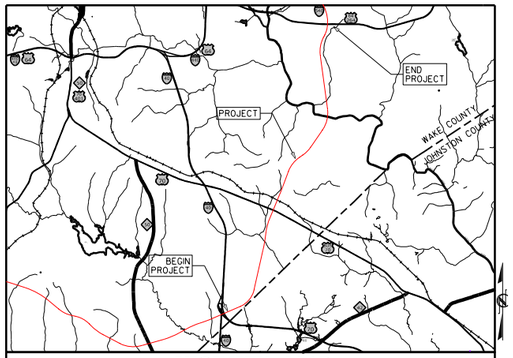
09/08/99

TIP PROJECT: R-2829

CONTRACT:

See Sheet 1A For Index of Sheets



VICINITY MAP NTS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2829	1	

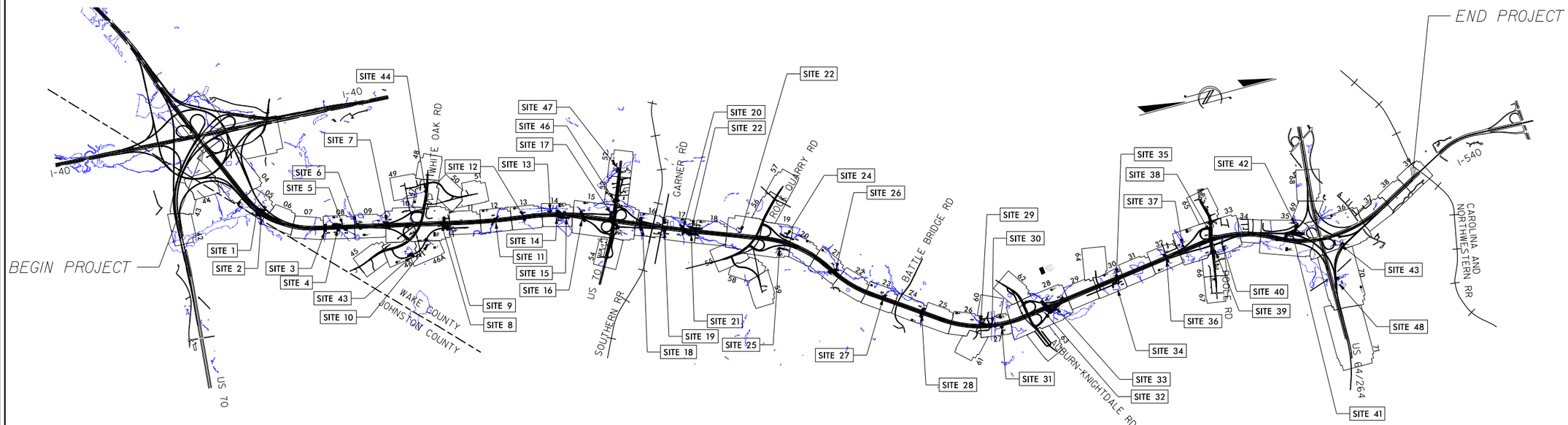
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

BUFFER DRAWING
SHEET 1 OF 37

LOCATION: COMPLETE 540 – EAST OF I-40 TO SOUTH OF US 64 /264

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STURCTURES

BUFFER IMPACTS PERMIT



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

100 50 0 100 200
PLANS

PROJECT LENGTH

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

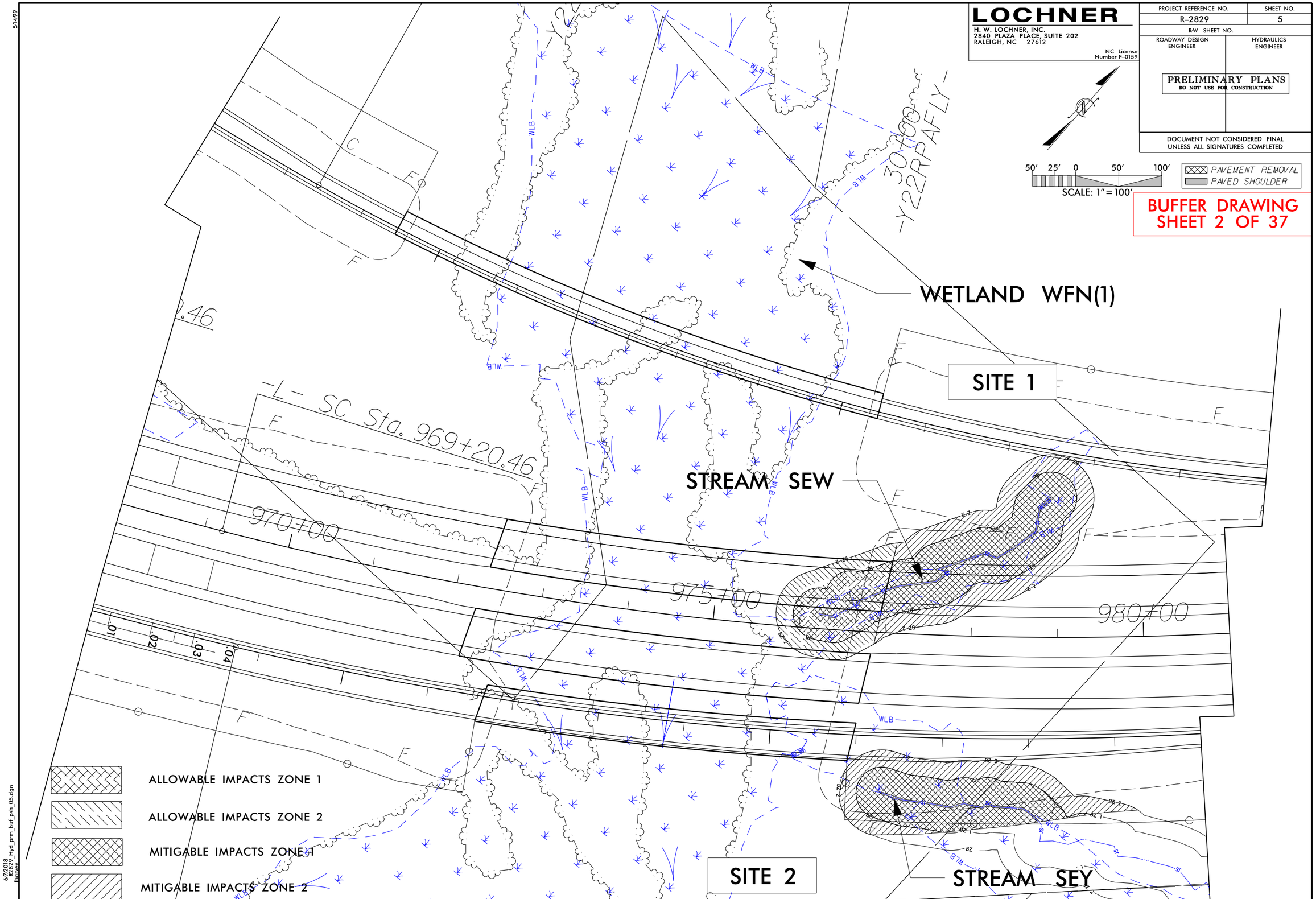
P.E.
SIGNATURE:

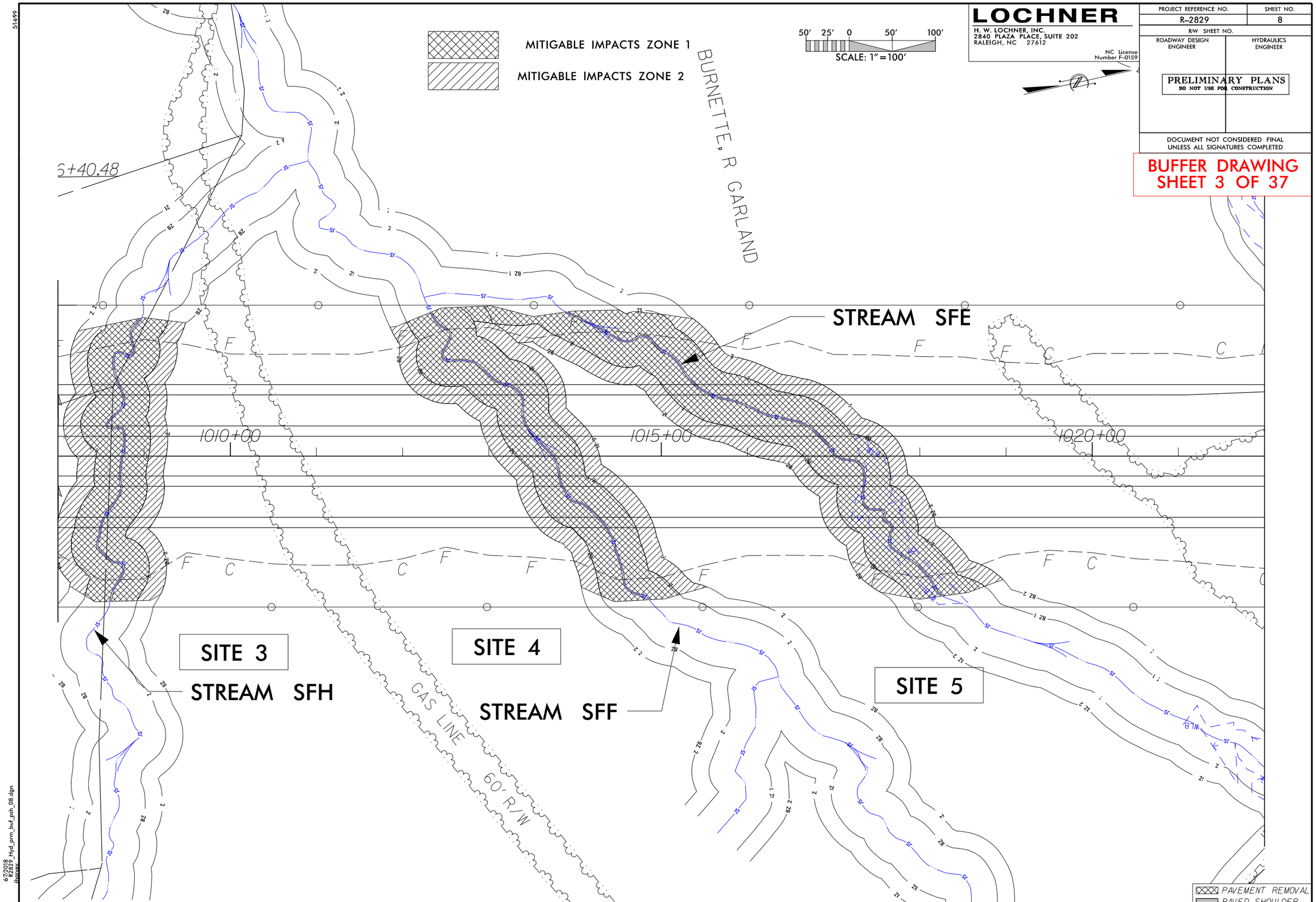
ROADWAY DESIGN ENGINEER

P.E.
SIGNATURE:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

6/7/2018
R2829_Hyd_prm_buf_psh_01.dgn
jharvey


LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
50' 25' 0 50' 100'
SCALE: 1"=100'
PAVEMENT REMOVAL
PAVED SHOULDER
BUFFER DRAWING
SHEET 2 OF 37
WETLAND WFN(1)
SITE 1
STREAM SEW
SITE 2
STREAM SEY
-L- SC Sta. 969+20.46
970+00
975+00
980+00
30+00
-Y22RPAFLY-
WLB
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
6/7/2018
R2829_Hyd_prm_buf_psh_05.dgn
jbarvey



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 3 OF 37

51499

6/7/2018
R2829_Hyd_prm_buf_psh_08.dgn
jbarvey

51499

50' 25' 0 50' 100'
SCALE: 1"=100'

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING SHEET 4 OF 37

WETLAND WGD

SITE 6

WETLAND WGC

STREAM SFB

SITE 7

WETLAND WGB

-L- POT Sta. 1033+09.61=
-Y23RPB- ST Sta. 10+00.00
71.00' LT

-L- POT Sta. 1030+20.79=
-Y23RPC- ST Sta. 10+00.00
71.00' RT

N 16° 47' 39.6" E

-Y23RPC- TS Sta. 13+68.78

1025+00 1030+00 1035+00

15+00
-Y23RPC-

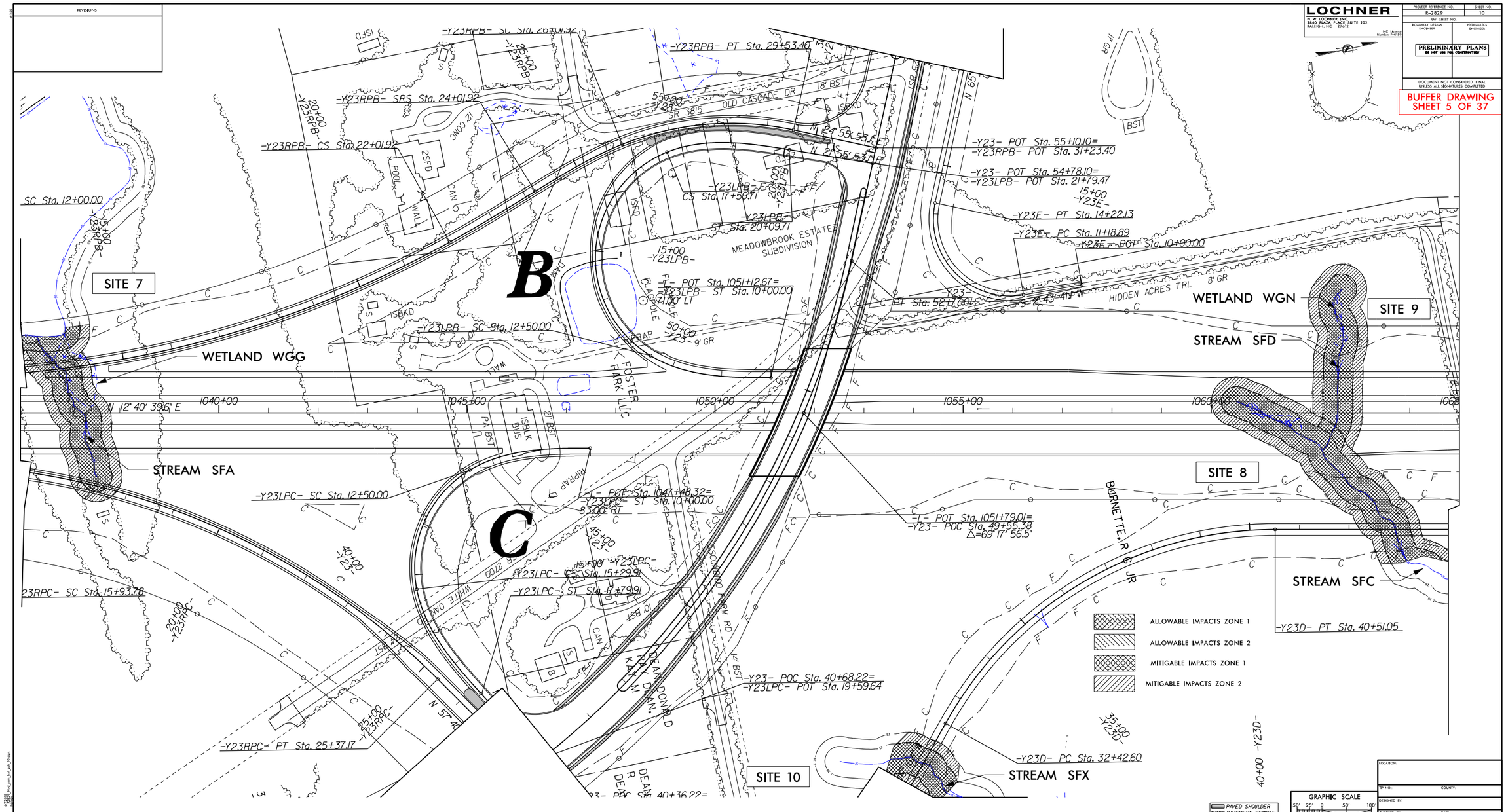
BURNETTE, R GARLAND

MITIGABLE IMPACTS ZONE 1

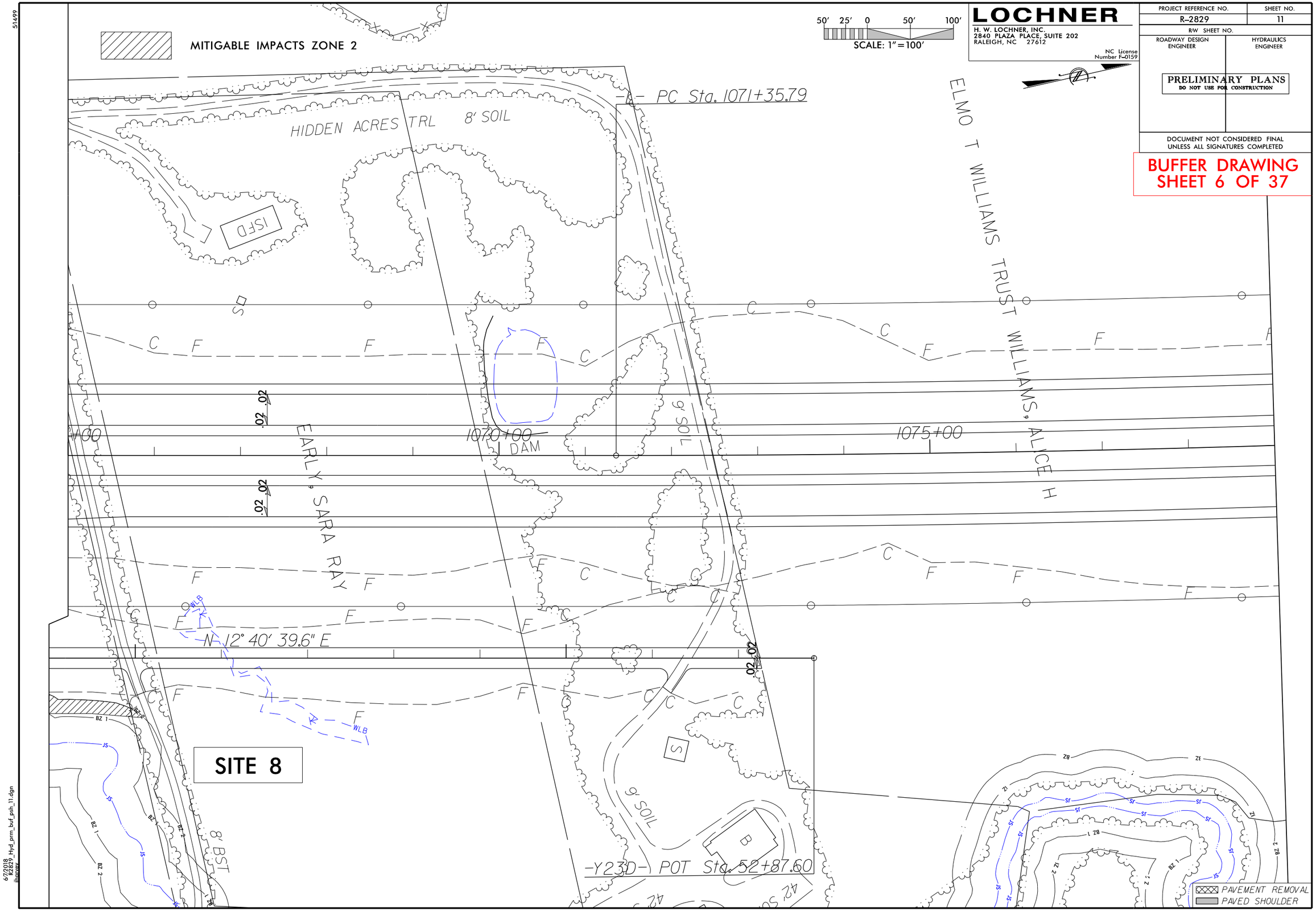
MITIGABLE IMPACTS ZONE 2

PAVEMENT REMOVAL
PAVED SHOULDER

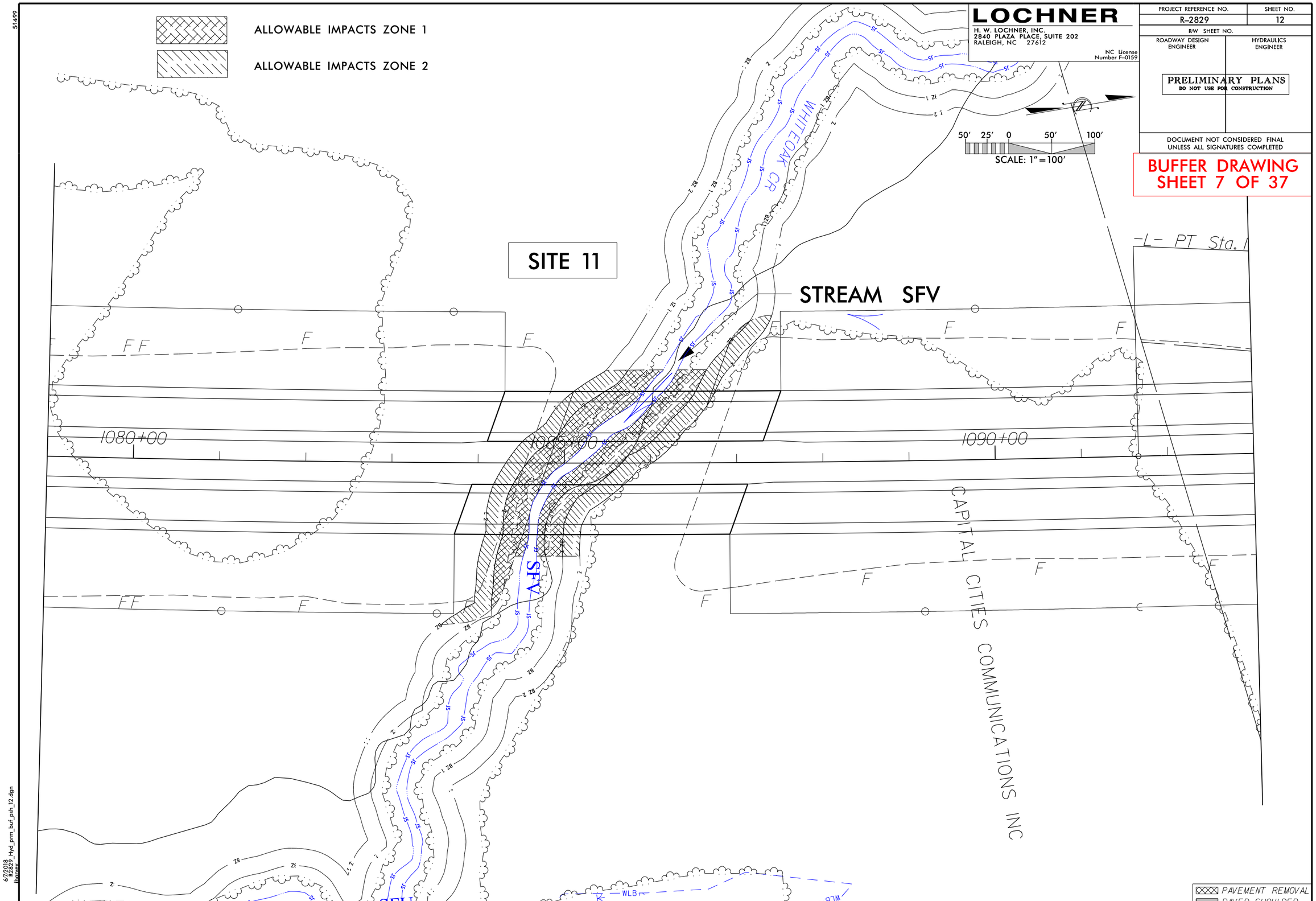
6727018
R2829_Hyd_prm_buf_psh_09.dgn
lhorvay



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
10
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 5 OF 37
REVISIONS
SITE 7
SITE 8
SITE 9
SITE 10
WETLAND WGG
WETLAND WGN
STREAM SFA
STREAM SFC
STREAM SFD
STREAM SFX
B
C
MEADOWBROOK ESTATES SUBDIVISION
FOSTER PARK LLC
OLD CASCADE DR
HIDDEN ACRES TRL
BURNETTE, R G JR
ESCONDIDO FARM RD
DEAN DONALD RAY DEAN KAY M
-Y23RPB- PT Sta. 29+53.40
-Y23RPB- SRS Sta. 24+01.92
-Y23RPB- CS Sta. 22+01.92
SC Sta. 12+00.00
-Y23LPB- CS Sta. 17+59.71
-Y23LPB- ST Sta. 20+09.71
-Y23LPB- SC Sta. 12+50.00
-Y23LPC- SC Sta. 12+50.00
-Y23LPC- CS Sta. 15+29.91
-Y23LPC- ST Sta. 17+79.91
-Y23RPC- SC Sta. 15+93.78
-Y23RPC- PT Sta. 25+37.17
-Y23- POT Sta. 55+10.10=
-Y23RPB- POT Sta. 31+23.40
-Y23- POT Sta. 54+78.10=
-Y23LPB- POT Sta. 21+79.47
-Y23E- PT Sta. 14+22.13
-Y23E- PC Sta. 11+18.89
-Y23E- POT Sta. 10+00.00
-Y23- POT Sta. 1051+12.67=
-Y23LPB- ST Sta. 10+00.00
-Y23- POT Sta. 1047+48.32=
-Y23LPC- ST Sta. 10+00.00
-Y23- POT Sta. 1051+79.01=
-Y23- POC Sta. 49+55.38
Δ=69° 17' 56.5"
-Y23- POC Sta. 40+68.22=
-Y23LPC- POT Sta. 19+59.64
-Y23D- PT Sta. 40+51.05
-Y23D- PC Sta. 32+42.60
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
PAVED SHOULDER
PAVEMENT REMOVAL
GRAPHIC SCALE
SCALE: 1"=100'
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:



MITIGABLE IMPACTS ZONE 2
50' 25' 0 50' 100'
SCALE: 1"=100'
LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
11
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 6 OF 37
PC Sta. 1071+35.79
HIDDEN ACRES TRL
8' SOIL
ISFD
ELMO T WILLIAMS TRUST
WILLIAMS, ALICE H
EARLY, SARA RAY
1070+00
DAM
1075+00
9' SOIL
N 12° 40' 39.6" E
SITE 8
8' BST
-Y23D- POT Sta. 52+87.60
PAVEMENT REMOVAL
PAVED SHOULDER



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 7 OF 37

51499

6/7/2018
R2829_Hyd_prm_buf_psh_12.dgn
jharvey

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

50' 25' 0 50' 100'

SCALE: 1" = 100'

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING SHEET 8 OF 37

SITE 12

STREAM SFR

-L- PC Sta. 1102+48.60

091+66.25

1095+00

1100+00

1105+00

N 8° 01' 27.1" E

NC DEPARTMENT OF TRANSPORTATION

CAPITOL BROADCASTING CO INC

WLB

BZ 1

BZ 2

SF

F

C

PAVEMENT REMOVAL

PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_13.dgn
lhorvay

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2

50' 25' 0 50' 100'

SCALE: 1"=100'

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING SHEET 9 OF 37

WETLAND WGR

SITE 13

SITE 15

SITE 14

STREAM SFN

STREAM SFQ

-L- POT Sta. 1115+20.79=
-Y24RPB- POT Sta. 10+00.00
71.00' LT

-L- POT Sta. 1119+78.61=
-Y24RPC- ST Sta. 10+00.00
71.00' RT

-Y24RPC- SC Sta. 12

1110+00

1115+00

1120+00

N 16° 07' 23

ANTENNA ANCHOR

Center of Anchor
30.970 ft. from EOP
39.158 ft. from EOT

Nearest Fence Corner
15.791 ft. from EOP
23.808 ft. from EOT

PAVEMENT REMOVAL
PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_14.dgn
jhancock

REVISIONS

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

LOCHNER

H. W. LOCHNER, INC.
3840 ROZZ, PLACE, SUITE 202
RALEIGH, NC 27613

NC License Number P-0750

PROJECT REFERENCE NO.	SHEET NO.
R-2829	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 10 OF 37

WETLAND WGR

SITE 16

SITE 17

STREAM SFS

STREAM SFT

STREAM SFT

-Y24RPB- PT Sta. 23+79.08

-Y24RPB- PC Sta. 21+37.16

-Y24- POT Sta. 27+25.00=
-Y24RPB- POT Sta. 31+34.92
57.00' RT

-Y24- POT Sta. 27+83.64=
-Y24RPA- POT Sta. 32+51.60

-Y24RPB- PT

-Y24RPB- PC Sta. 32+00.28

-Y24- PC Sta. 32+09.24

-L- PT Sta. 1125+37.47

-Y24RPC- PCC Sta. 18+32.61

-Y24RPC- CS Sta. 21+54.98

-Y24RPC- SRS Sta. 23+59.98

-Y24LPC- SC Sta. 12+50.00

-L- POT Sta. 1137+95.17=
-Y24LPC- ST Sta. 10+00.00
71.00' LT

-Y24- POC Sta. 35+94.49=
-Y24LPC- ST Sta. 23+27.85
51.00' RT

-Y24LPC- CS Sta. 20+17.85

-Y24LPA- CS Sta. 20+85.53

-Y24LPA- SRS Sta. 23+35.53

-Y24LPA- SC Sta. 12+50.00

-L- POT Sta. 1141+33.67=
-Y24LPA- ST Sta. 10+00.00
71.00' LT

-L- POT Sta. 1139+67.12=
-Y24- POC Sta. 33+99.03
Δ=89° 53' 21.0"

-Y24- POC Sta. 34+62.17=
-Y24LPA- ST Sta. 25+85.53
51.00' LT

-Y24RPD- PC Sta. 32+35.86

-Y24RPD- PT Sta. 35+44.88

-Y24C- POT Sta. 24+30.68

-Y24C- PT Sta. 23+63.27

-Y24C- PC Sta. 21+95.84

-Y24- POC Sta. 40+80.85=

N 17° 11' 51.6" E

N 25° 15' 37.7" E

N 22° 35' 44.1" E

S 21° 32' 08.2" W

S 64° 06' 22.9" E

N 30° 01' 30.4" W

ISBLKBUS

RIPRAP

PA CONC

PA BST

32' BST

20' BST

LEE LOUNGE

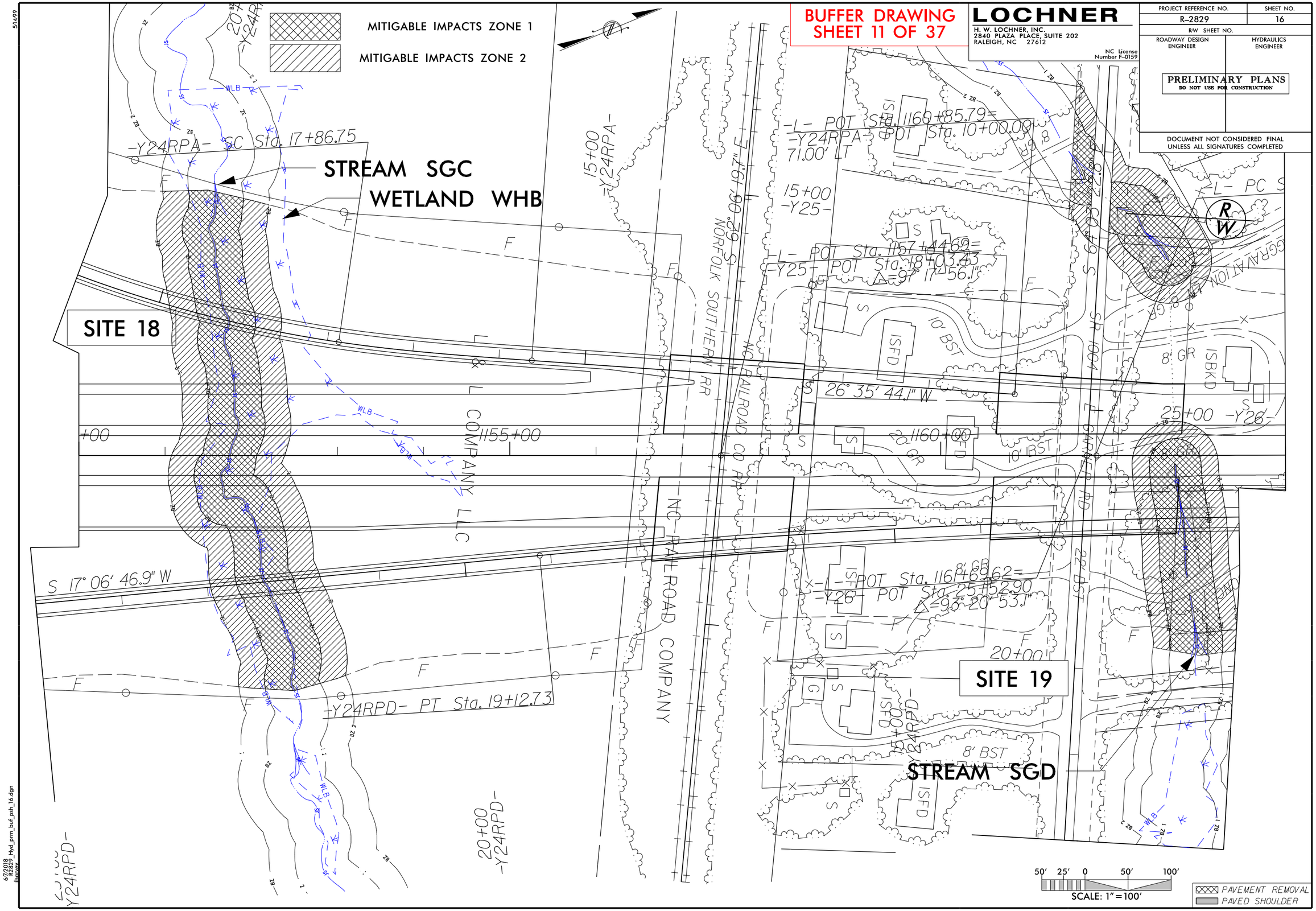
ROBERTS-LYNN PROPERTY TRUSTEE

RICHARD TRUSTEE

GRAPHIC SCALE
50' 25' 0 50' 100'
SCALE: 1"=100'

PAVED SHOULDER
PAVEMENT REMOVAL

LOCATION:	
TIP NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:



BUFFER DRAWING
SHEET 11 OF 37

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SCALE: 1" = 100'

PAVEMENT REMOVAL
PAVED SHOULDER

51499

6/7/2018
R2829_Hyd_prm_buf_psh_16.dgn
jhgrvey

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

50' 25' 0 50' 100'

SCALE: 1" = 100'

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STREAM SGF
WETLAND WHD(2)
SITE 22

BUFFER DRAWING
SHEET 12 OF 37

WETLAND WHD

STREAM SGG

SITE 21

SITE 20

STREAM SGE

SITE 19

Sta. 1164+80.68

1165+00

1170+00

1175+00

DAM

POOL

ISFD

8' GR

CAN

WL - POC Sta. 1164+45.61=
=Y24RPD- PC Sta. 10+00.00
-41.00' RT

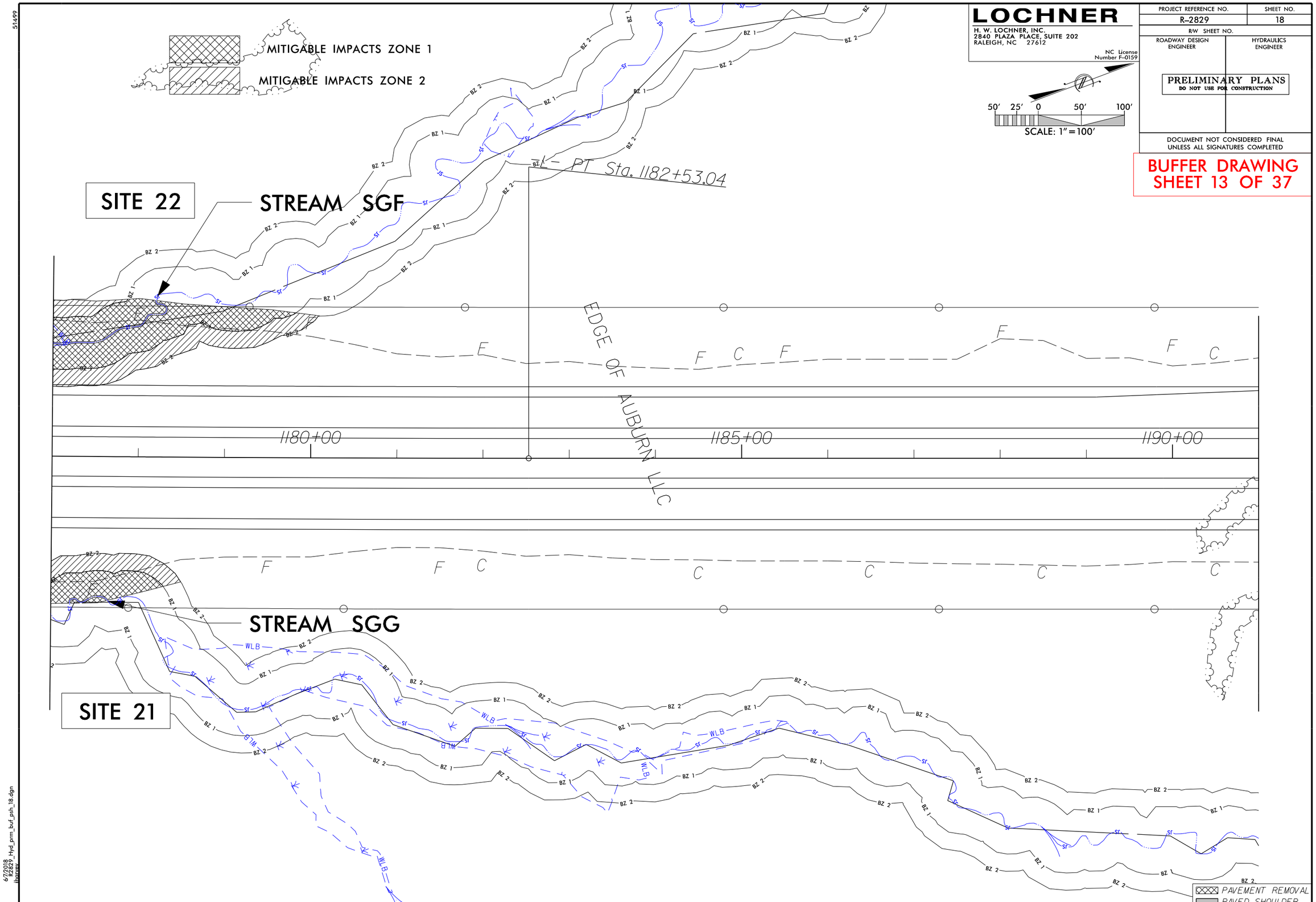
LAURA L WATTS, BARBARA B

MCINTYRE, JOHN BAPTIST

30+00 -Y26-

PAVEMENT REMOVAL
PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_17.dgn
jhanvey



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 13 OF 37

50' 25' 0 50' 100'
SCALE: 1" = 100'

51499

6/7/2018
R2829_Hyd_prm_buf_psh_18.dgn
jharvey

REVISIONS

LOCHNER
H. W. LOCHNER, INC.
3840 ROZZ PLACE, SUITE 202
RALEIGH, NC 27613
NC License Number P-0750

PROJECT REFERENCE NO.	SHEET NO.
R-2829	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 14 OF 37

STREAM SGH
SITE 23

STREAM SGK
SITE 24
SITE 25

WETLAND WHQ

A

D

-Y27- PC Sta. 41+69.05
-Y27- POT STA 41+55.33=
-Y27RPA- POT Sta. 30+20.34
-Y27- POT STA 41+23.24=
-Y27LPA- POT Sta. 22+86.27
-Y27- PT Sta. 37+91.89
-L- POT Sta. 1204+09.01=
-Y27- POC Sta. 34+52.93
Δ=63° 12' 45.3"
N 20° 36' 59.9" E
-Y27LPA- PT Sta. 28+67.04
S 34° 53' 01.0" W
-Y27LPA- SC Sta. 26+10.88
-Y27RPA- SRS Sta. 24+10.88
-Y27RPA- CS Sta. 21+85.88
-Y27LPA- ST Sta. 21+14.46
-Y27LPA- CS Sta. 18+64.46
-Y27LPA- SC Sta. 14+61.21
-L- POT Sta. 1205+10.03=
-Y27LPA- TS Sta. 10+00.00
7.00' LT
-Y27LPA- TS Sta. 12+11.21
-Y27RPA- SC Sta. 18+25.00
-Y27RPA-
-L- SC Sta. 1209+51.03
-L- TS Sta. 1206+36.03
-L- POT Sta. 1204+96.04=
-Y27LPD- TS Sta. 10+00.00
7.00' RT
-Y27LPD- SC Sta. 12+50.00
-Y27LPD- CS Sta. 18+34.39
-Y27LPD- ST Sta. 20+84.39
S 48° 28' 21.5" W
S 58° 28' 21.5" W
-Y27RPD- PT Sta. 30+58.83
-Y27RPD- SC Sta. 26+11.50
-Y27RPD- SRS Sta. 24+11.50
-Y27RPD- CS Sta. 21+86.50
-Y27RPD- SC Sta. 21+11.12
-Y27RPA-
-Y27RPD-
-Y27LPA-
-Y27LPD-
-Y27-
-L-
-Y27LPA- SC Sta. 18+25.00
-Y27RPA-
-Y27RPD-
-Y27RPD-
-Y27RPD

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

50' 25' 0 50' 100'

SCALE: 1" = 100'

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING SHEET 15 OF 37

SITE 24

15+00 -Y

DAM

TS Sta. 16+00.00

-L- POC Sta. 1224+50.00=
-Y27RPA- POT Sta. 10+00.00
71.00' LT

S 39° 24' 37.4" W

1225+00

1230+00

BURNETTE FOREST LLC

1225.00

-L- POC Sta. 1223+79.78=
-Y27RPD- ST Sta. 10+00.00
71.00' RT

PAVEMENT REMOVAL
PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_20.dgn
lhancox

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

SITE 26

WETLAND WHP

STREAM SGK

-L- CS Sta. 1243+41.83

-L- CS Sta. 1236+90.81

-L- ST Sta. 1240+05.81

N 55° 16' 30.9" E

1235+00

1240+00

1245+00

50' 25' 0 50' 100'

SCALE: 1" = 100'

RUINS

PAVEMENT REMOVAL

PAVED SHOULDER

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	21

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

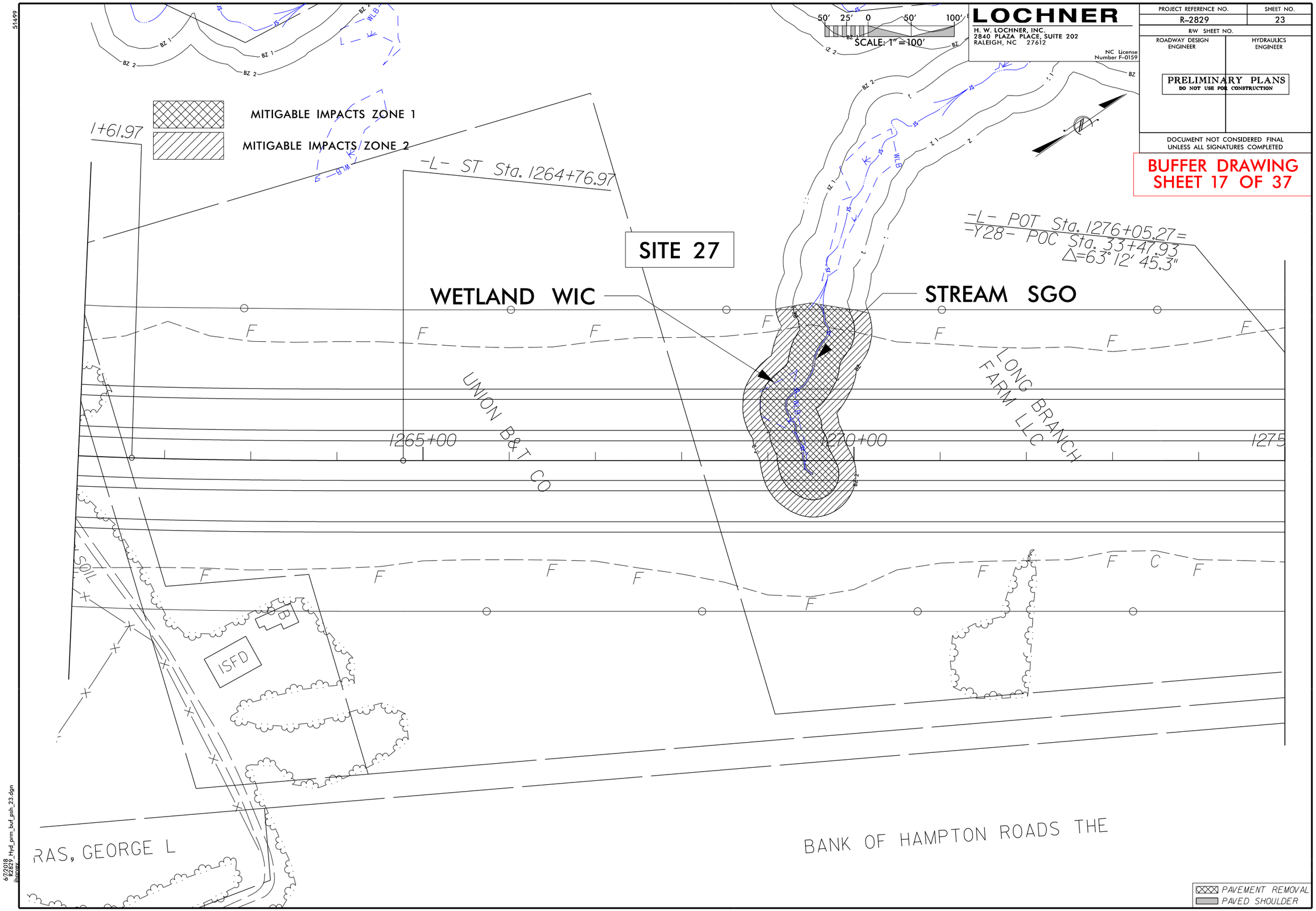
HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

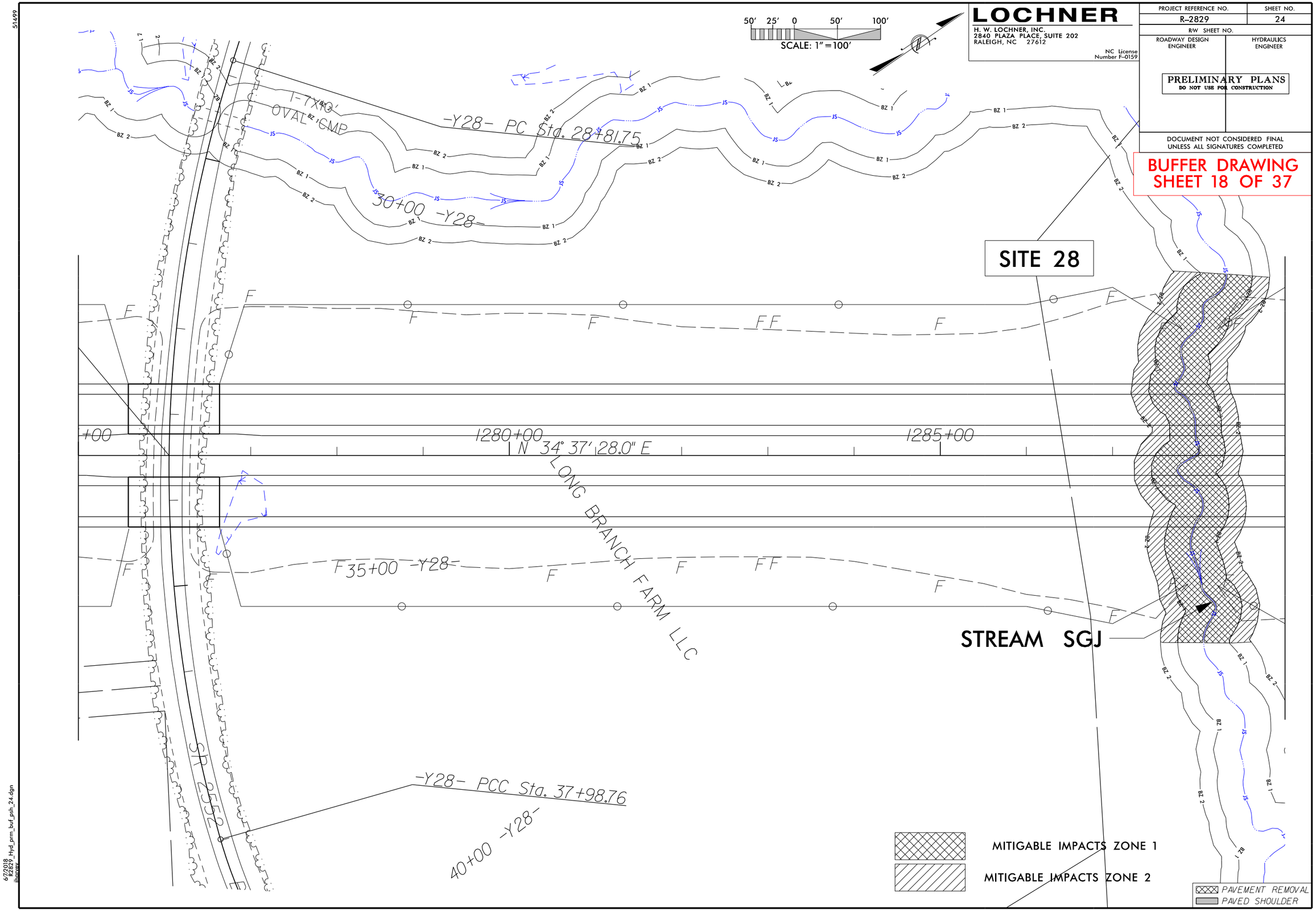
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 16 OF 37

6729.18
R2829_Hyd_prm_buf_psh_21.dgn
lhorvay



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
23
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 17 OF 37
SCALE: 1" = 100'
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
1+61.97
-L- ST Sta. 1264+76.97
SITE 27
WETLAND WIC
STREAM SGO
-L- POT Sta. 1276+05.27=
-Y28- POC Sta. 33+47.93
Δ=63° 12' 45.3"
UNION B&T CO
LONG BRANCH FARM LLC
1265+00
1270+00
1275
SOIL
ISFD
RAS, GEORGE L
BANK OF HAMPTON ROADS THE
PAVEMENT REMOVAL
PAVED SHOULDER



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
24
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 18 OF 37
50' 25' 0 50' 100'
SCALE: 1" = 100'
SITE 28
STREAM SGJ
-Y28- PC Sta. 28+81.75
30+00 -Y28-
1280+00
1285+00
N 34° 37' 28.0" E
LONG BRANCH FARM LLC
35+00 -Y28-
-Y28- PCC Sta. 37+98.76
40+00 -Y28-
SR 2552
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
PAVEMENT REMOVAL
PAVED SHOULDER

51499

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

50′ 25′ 0 50′ 100′

SCALE: 1″ = 100′

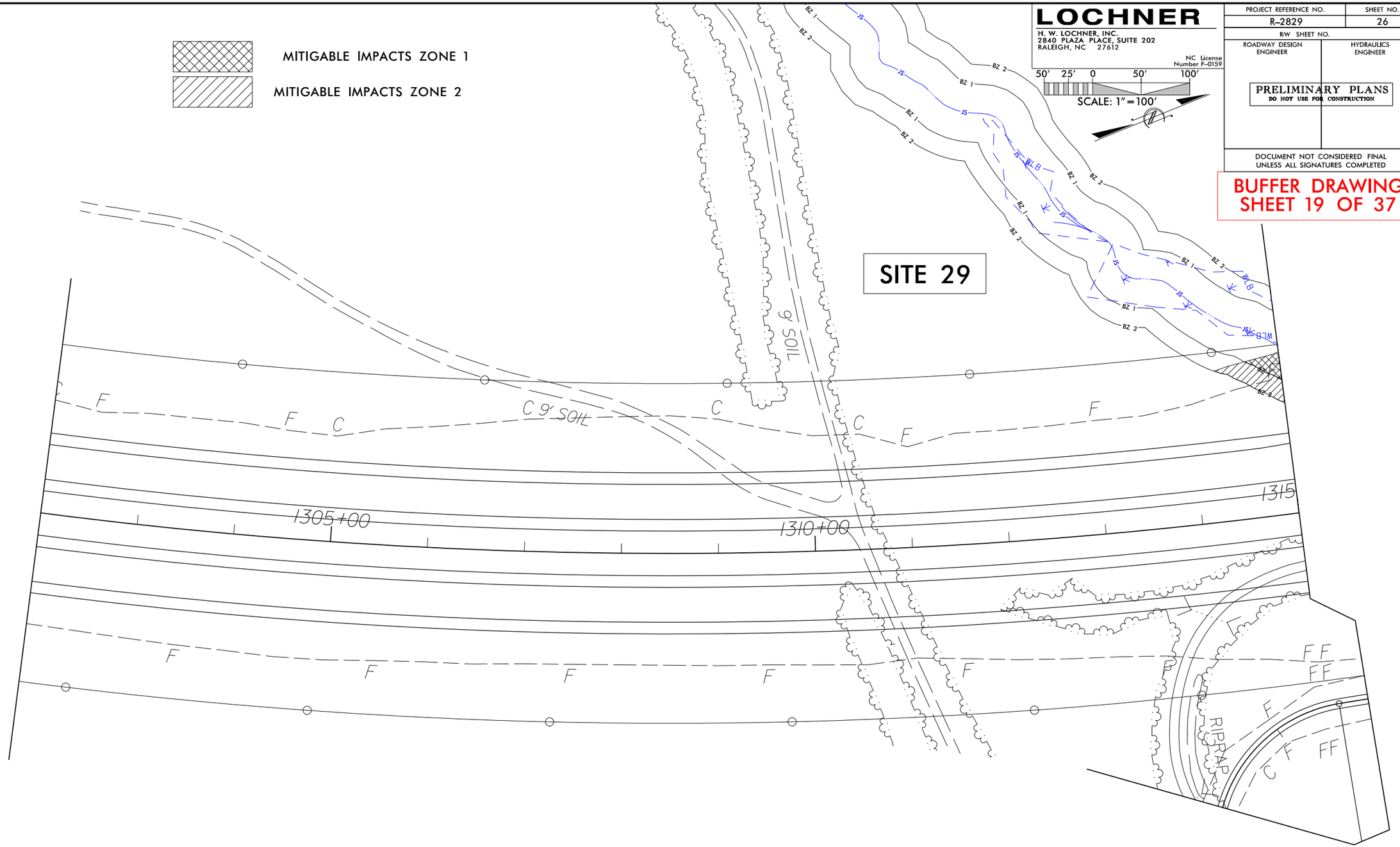
PROJECT REFERENCE NO.	SHEET NO.
R-2829	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

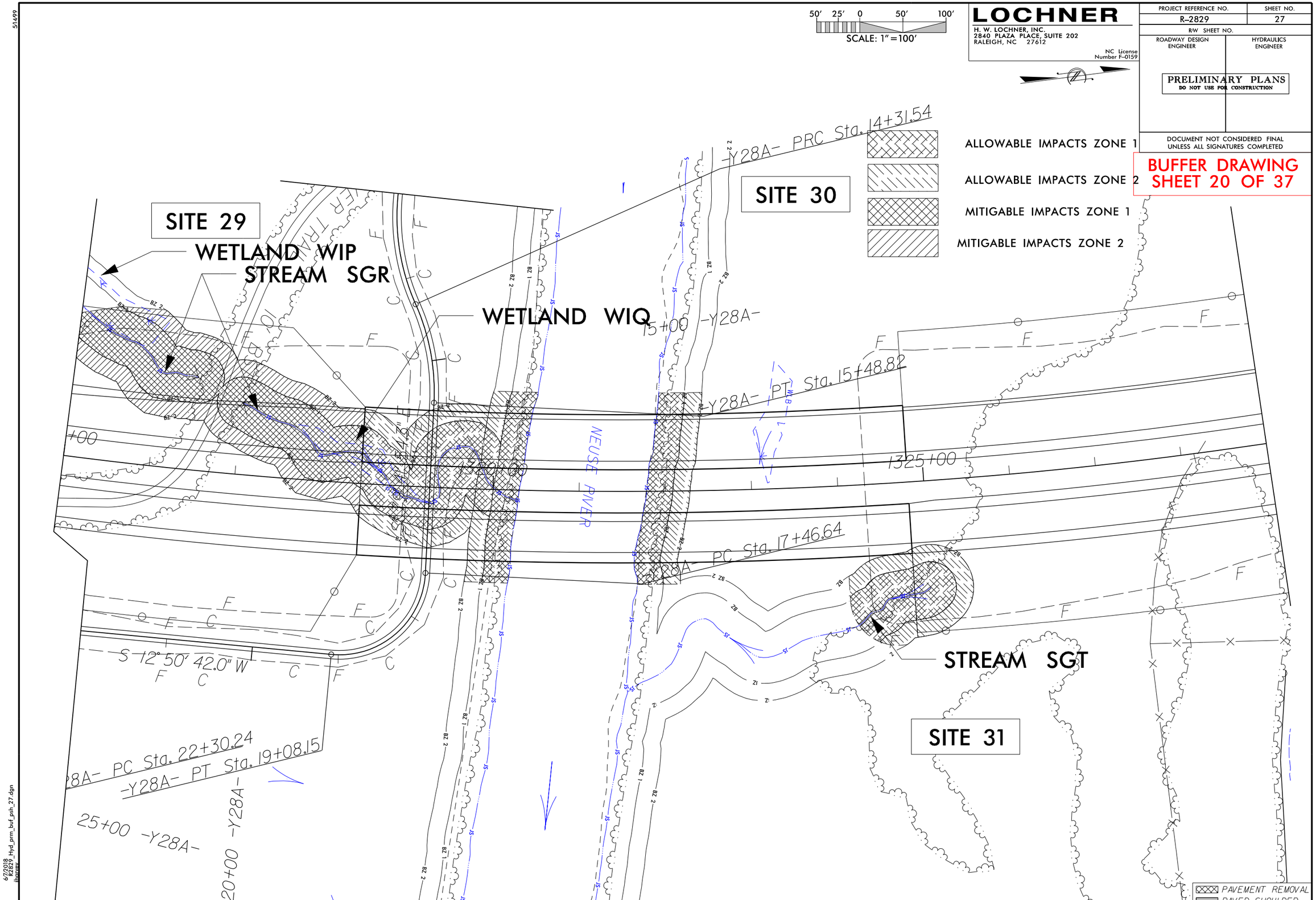
BUFFER DRAWING SHEET 19 OF 37

SITE 29

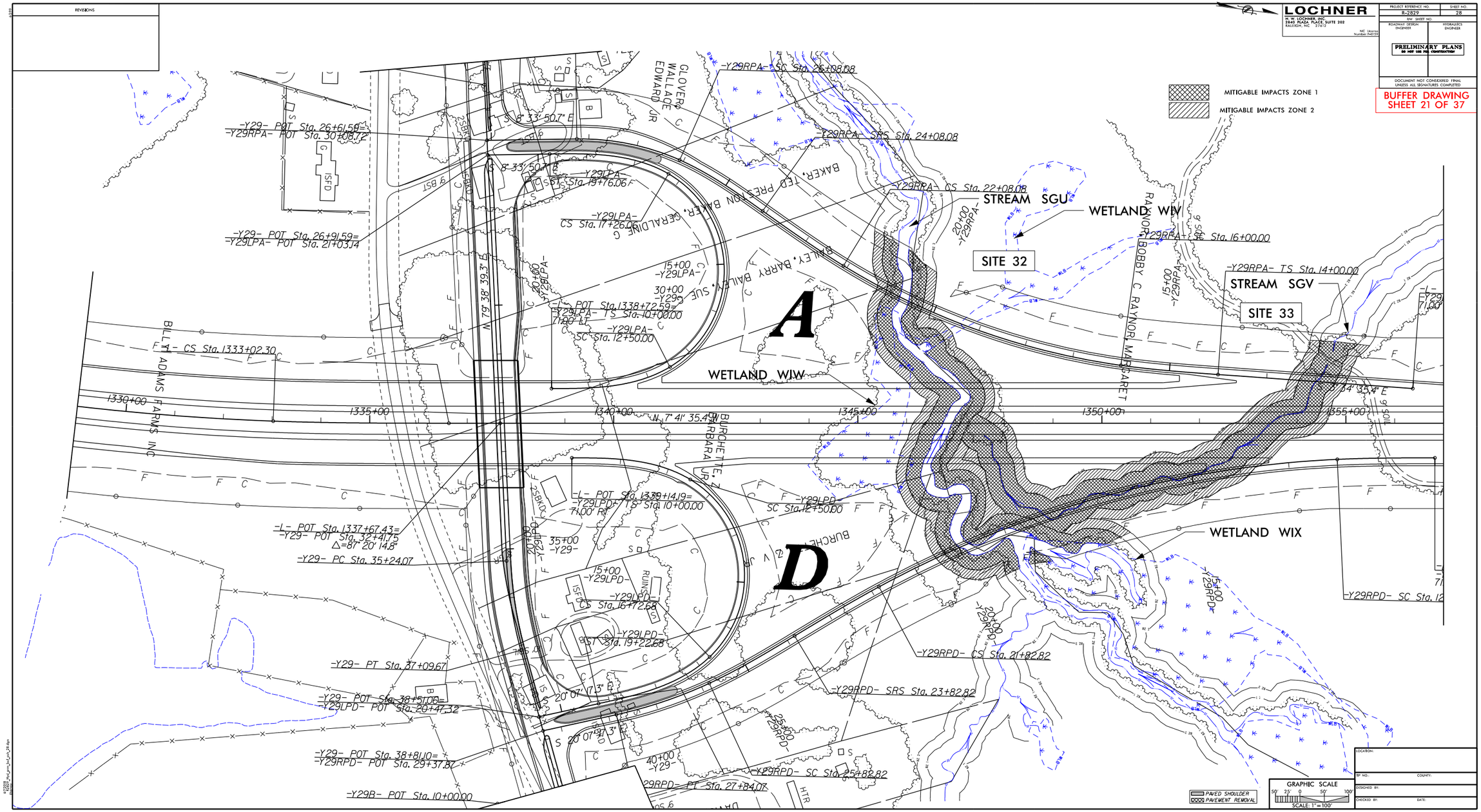


PAVEMENT REMOVAL
PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_26.dgn
jhancock



50' 25' 0 50' 100'
SCALE: 1"=100'
LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
27
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 20 OF 37
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
SITE 29
WETLAND WIP
STREAM SGR
WETLAND WIQ
SITE 30
STREAM SGT
SITE 31
-Y28A- PRC Sta. 14+31.54
15+00 -Y28A-
-Y28A- PT Sta. 15+48.82
1325+00
-Y28A- PC Sta. 17+46.64
NEUSE RIVER
S 12° 50' 42.0" W
-Y28A- PC Sta. 22+30.24
-Y28A- PT Sta. 19+08.15
25+00 -Y28A-
20+00 -Y28A-
PAVEMENT REMOVAL
PAVED SHOULDER



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
28
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 21 OF 37
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
STREAM SGU
WETLAND WIV
SITE 32
STREAM SGV
SITE 33
WETLAND WIW
WETLAND WIX
A
D
-Y29- POT Sta. 26+61.59=
-Y29RPA- POT Sta. 30+08.72
-Y29- POT Sta. 26+91.59=
-Y29LPA- POT Sta. 21+03.14
-Y29RPA- SC Sta. 26+08.08
-Y29RPA- SRS Sta. 24+08.08
-Y29RPA- CS Sta. 22+08.08
-Y29RPA- SC Sta. 16+00.00
-Y29RPA- TS Sta. 14+00.00
-Y29LPA- CS Sta. 17+26.06
-Y29LPA- SC Sta. 12+50.00
-L- POT Sta. 1338+72.59=
-Y29LPA- TS Sta. 10+00.00
-L- CS Sta. 1333+02.30
-L- POT Sta. 1339+14.19=
-Y29LPD- TS Sta. 10+00.00
-L- POT Sta. 1337+67.43=
-Y29- POT Sta. 32+41.75
Δ=87° 20' 14.8"
-Y29- PC Sta. 35+24.07
-Y29LPD- CS Sta. 16+72.68
-Y29LPD- ST Sta. 19+22.68
-Y29- PT Sta. 37+09.67
-Y29- POT Sta. 38+51.06=
-Y29LPD- POT Sta. 20+47.32
-Y29- POT Sta. 38+81.10=
-Y29RPD- POT Sta. 29+37.87
-Y29B- POT Sta. 10+00.00
-Y29RPD- CS Sta. 21+82.82
-Y29RPD- SRS Sta. 23+82.82
-Y29RPD- SC Sta. 25+82.82
-Y29RPD- PT Sta. 27+84.07
-Y29RPD- SC Sta. 12
BAKER, TED PRESTON BAKER, GERALDINE G
BAILEY, BARRY BAILEY, SUE
BURCHETTE, Z BARBARA JR
GLOVER, WALLACE EDWARD JR
RAYNOR, BOBBY C RAYNOR, MARGARET
BILLY ADAMS FARMS INC
N 79° 38' 39.3" E
N 7° 41' 35.4" W
S 8° 33' 50.7" E
S 20° 07' 17.3" E
S 3° 34' 35.4" E
1330+00
1335+00
1340+00
1345+00
1350+00
1355+00
PAVED SHOULDER
PAVEMENT REMOVAL
GRAPHIC SCALE
SCALE: 1"=100'
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

51499

50' 25' 0 50' 100'

SCALE: 1"=100'

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING SHEET 22 OF 37

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

WETLAND WJA

STREAM SGY

WETLAND WIZ

SITE 35

SITE 34

-Y29D- PC Sta. 13+17.88

-Y29D- PT Sta. 14+97.14

15+00 -Y29D-

1375+00

1380+00

N 7° 41' 35.4" W

N 82° 18' 24.6" E

-Y29E- POT Sta. 16+87.49=
-Y29D- POT Sta. 19+10.37

20+00 -Y29E-

25+00 -Y29E-

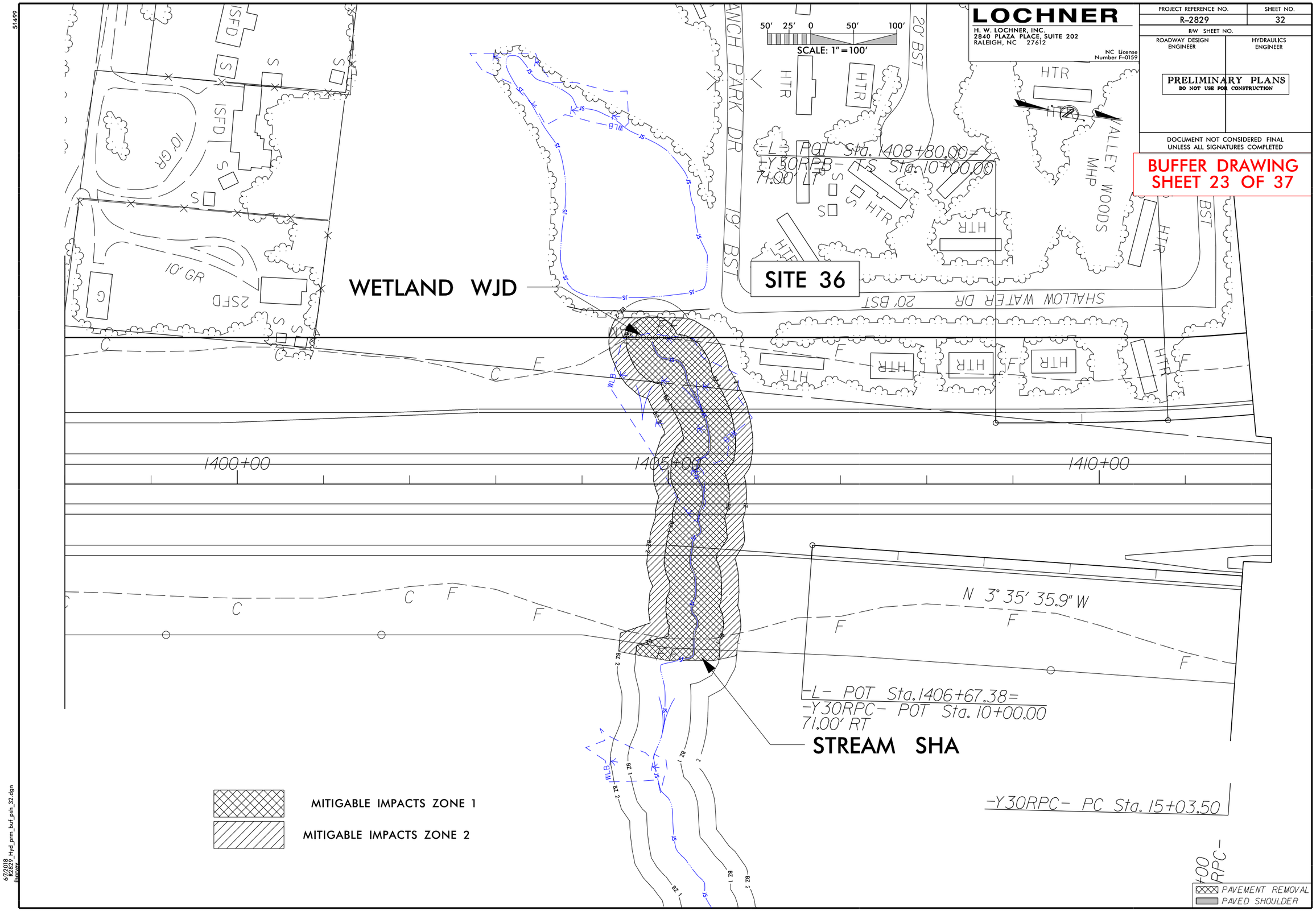
-Y29E- PC

POWELL, JACOB L
POWELL, ANTHONY C

CRENSHAW, JOHN C III
CRENSHAW, LAURIE L

PAVEMENT REMOVAL
PAVED SHOULDER

6/7/2018
R2829_Hyd_prm_buf_psh_30.dgn
lhopper



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
32
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 23 OF 37
SCALE: 1" = 100'
50' 25' 0 50' 100'
WETLAND WJD
SITE 36
STREAM SHA
-L- POT Sta. 1408+80.00=
-Y30RPB- TS Sta. 10+00.00
71.00' LT
-L- POT Sta. 1406+67.38=
-Y30RPC- POT Sta. 10+00.00
71.00' RT
-Y30RPC- PC Sta. 15+03.50
N 3° 35' 35.9" W
1400+00
1405+00
1410+00
SHALLOW WATER DR
20' BST
19' BST
20' BST
VALLEY WOODS MHP
10' GR
2SFD
ISFD
HTR
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
PAVEMENT REMOVAL
PAVED SHOULDER

REVISIONS

LOCHNER
H. W. LOCHNER, INC.
3840 ROZZ, PLAZ, SUITE 202
RALEIGH, NC 27613
NC License Number P-0755

PROJECT REFERENCE NO.	SHEET NO.
R-2829	33
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 24 OF 37

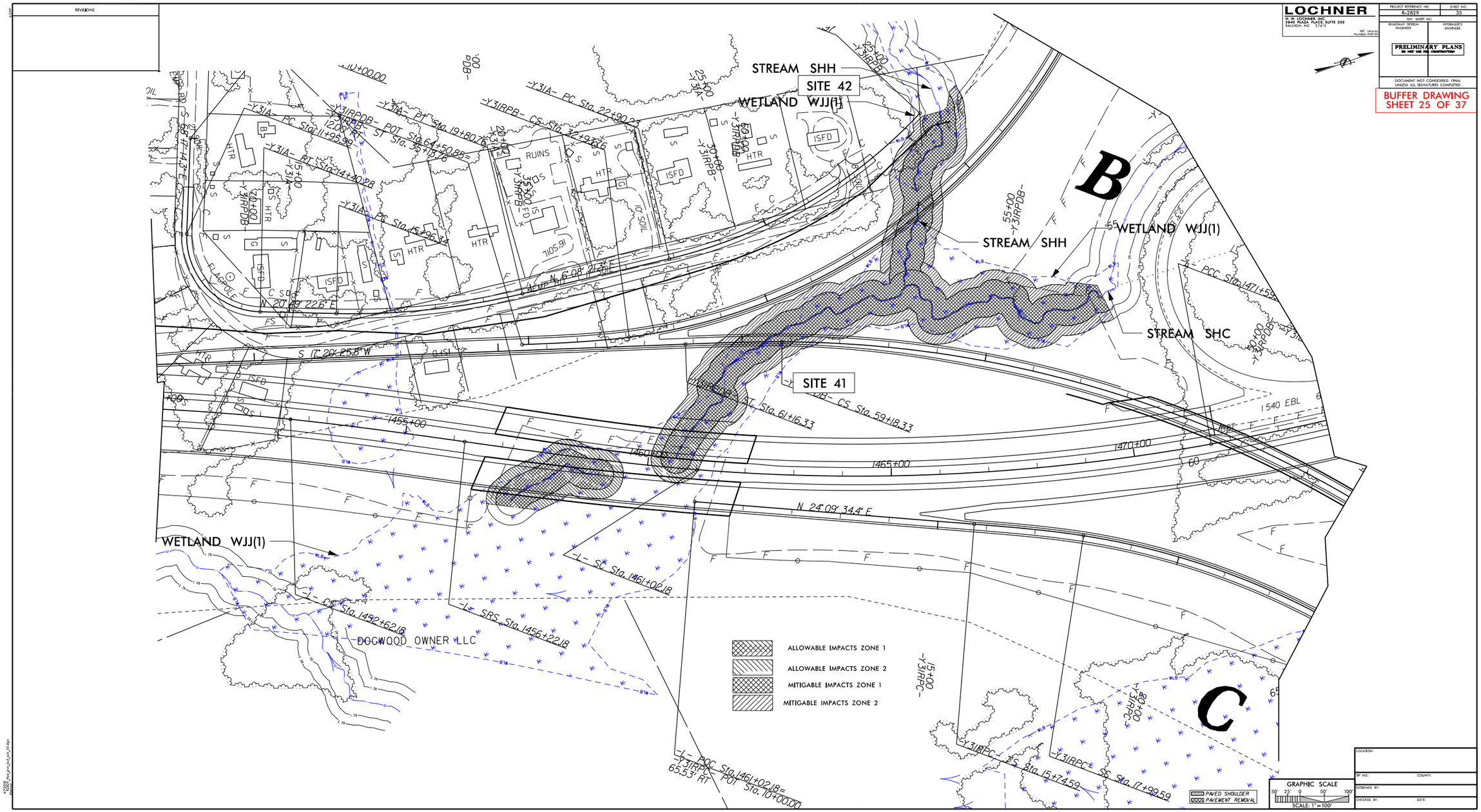
ALLOWABLE IMPACTS ZONE 3
ALLOWABLE IMPACTS ZONE 2
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2

STREAM SHB
STREAM SHD
STREAM SHE
STREAM SHC
WETLAND WJF
WETLAND WJH
SITE 37
SITE 38
SITE 39
SITE 40
A
B
C
D
-Y30RPB- PT Sta. 29+53.06
-Y30RPB- SC Sta. 26+23.45
-Y30RPB- SRS Sta. 24+23.45
-Y30RPB- CS Sta. 22+23.45
-Y30LPB- CS Sta. 20+45.14
-Y30LPB- ST Sta. 22+95.14
-Y30LPB- SC Sta. 15+00.00
-Y30RPC- PRC Sta. 23+36.34
-Y30RPC- PT Sta. 28+32.52
-Y30RPD- PT Sta. 25+84.92
-Y30RPD- SC Sta. 20+73.83
-Y30RPD- CS Sta. 18+73.83
-L- TS Sta. 1421+77.95
-L- SC Sta. 1424+92.95
-L- SC Sta. 1427+38.40=
Sta. 29+41.63
=10°54'40" 18.0' Rt
-Y30- PT Sta. 24+68.04
-Y30- POT Sta. 24+33.88=
Sta. 31+42.32
-Y30- POT Sta. 24+33.88=
Sta. 24+49.05
-Y30- PC Sta. 26+52.17
-L- POC Sta. 1429+06.51=
Sta. 10+00.00
71.60' Lt
-Y30- CS Sta. 1427+38.40=
Sta. 29+41.63
=10°54'40" 18.0'
-Y30- PT Sta. 30+38.14
-Y30LPB- SS Sta. 30+00.00
71.60' Lt
N 74° 10' 22" E 1022.71'
N 3° 49' 50.9" E
S 3° 49' 50.9" E
MINNANTS CREEK DR
OLD STONES MILL RD
SOUTHERN LIVING DR
DONALD, MARY DWIGHT HEIRS
BROADIE, ANDREW
RALEIGH FOOTBALL CLUB INC
RUGBY FIELD
WATER TOWER
RIPRAP
DAM
SFD
CAN
HTR
BST
GR

PAVED SHOULDER
PAVEMENT REMOVAL

GRAPHIC SCALE
50' 25' 0 50' 100'
SCALE: 1" = 100'

LOCATION:
TIP NO.: COUNTY:
DESIGNED BY:
CHECKED BY: DATE:



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
35
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 25 OF 37
REVISIONS
STREAM SHH
SITE 42
WETLAND WJJ(1)
STREAM SHH
WETLAND WJJ(1)
STREAM SHC
SITE 41
WETLAND WJJ(1)
DOGWOOD OWNER LLC
B
C
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
PAVED SHOULDER
PAVEMENT REMOVAL
GRAPHIC SCALE
SCALE: 1"=100'
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

REVISIONS

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

SITE 43

POND PAM

STREAM SHM

WETLAND WJT

PAVED SHOULDER

PAVEMENT REMOVAL

GRAPHIC SCALE

SCALE: 1" = 100'

LOCHNER

H. W. LOCHNER, INC.
3840 ROZZ, PLAZ, SUITE 202
RALEIGH, NC 27603

NC License Number P-0793

PROJECT REFERENCE NO.	SHEET NO.
R-2721	36

RW SHEET NO.

ROADWAY DESIGN ENGINEER

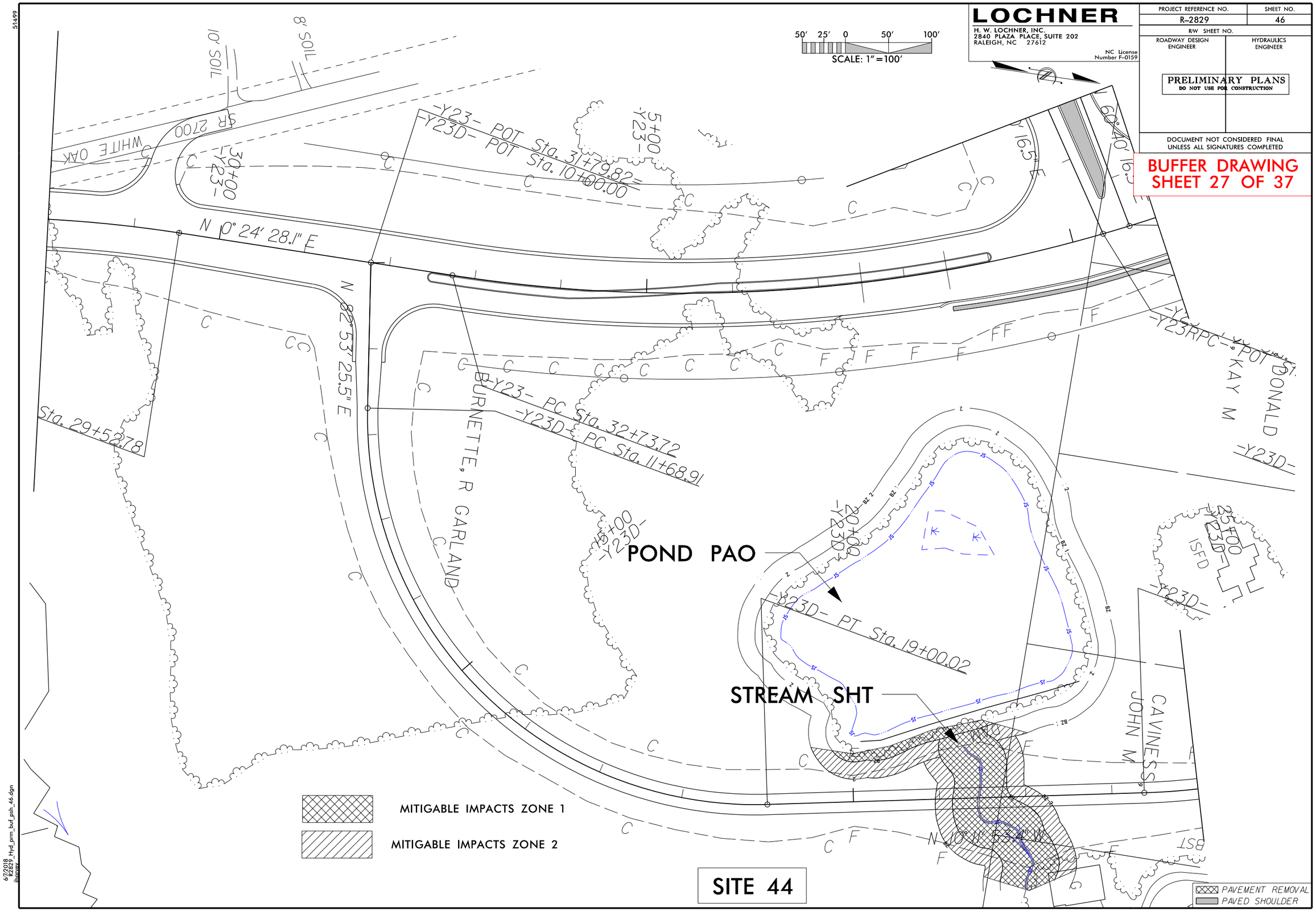
HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 26 OF 37

LOCATION:	
BY: NO.:	COUNTY:
DESIGNED: BY:	
CHECKED: BY:	DATE:



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
46
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 27 OF 37
50' 25' 0 50' 100'
SCALE: 1"=100'
10' SOIL
8' SOIL
SR 2700
WHITE OAK
-Y23- POT Sta. 31+79.82=
-Y23D- POT Sta. 10+00.00
N 0° 24' 28.1" E
N 82° 53' 25.5" E
Sta. 29+52.78
BURNETTE, R GARLAND
-Y23- PC Sta. 32+73.72
-Y23D- PC Sta. 11+68.91
-Y23D- PT Sta. 19+00.02
POND PAO
STREAM SHT
-Y23RPC- POT Sta.
DONALD
KAY M
ISFD
CAVINESS
JOHN M
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
SITE 44
PAVEMENT REMOVAL
PAVED SHOULDER

51499

50′ 25′ 0 50′ 100′

SCALE: 1″=100′

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License
Number F-0159

PROJECT REFERENCE NO.	SHEET NO.
R-2829	46A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BUFFER DRAWING
SHEET 28 OF 37

PT Sta. 27+94.90

PT Sta. 28+42.60

PC Sta. 23+37.57

N 48° 16' 16.4" W

SITE 10

STREAM SFX

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

PAVEMENT REMOVAL

PAVED SHOULDER

9' GR

ESCONDIDO FARM RD

ISBKD

MUSULIN, SAMUEL
MICHAEL MUSULIN
ANNETTE D

TRUELOVE, STEVEN
BRETT TRUELOVE
ANNE S

6/7/2018
R2829_Hyd_prm_buf_path_46A.dgn
jburney

51499

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2

50′ 25′ 0 50′ 100′

SCALE: 1″=100′

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

NC License Number F-0159

BUFFER DRAWING SHEET 29 OF 37

PROJECT REFERENCE NO.	SHEET NO.
R-2829	47
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SITE 45

N 65° 10′ 50.9″ W

N 2° 39′ 52.8″ E

3° 08′ 37.3″ E

-Y23- POT Sta. 19+02.97

-Y23- PC Sta. 62+84.75

-Y23- POT Sta. 68+31.41

-Y23- PT Sta. 68+19.13

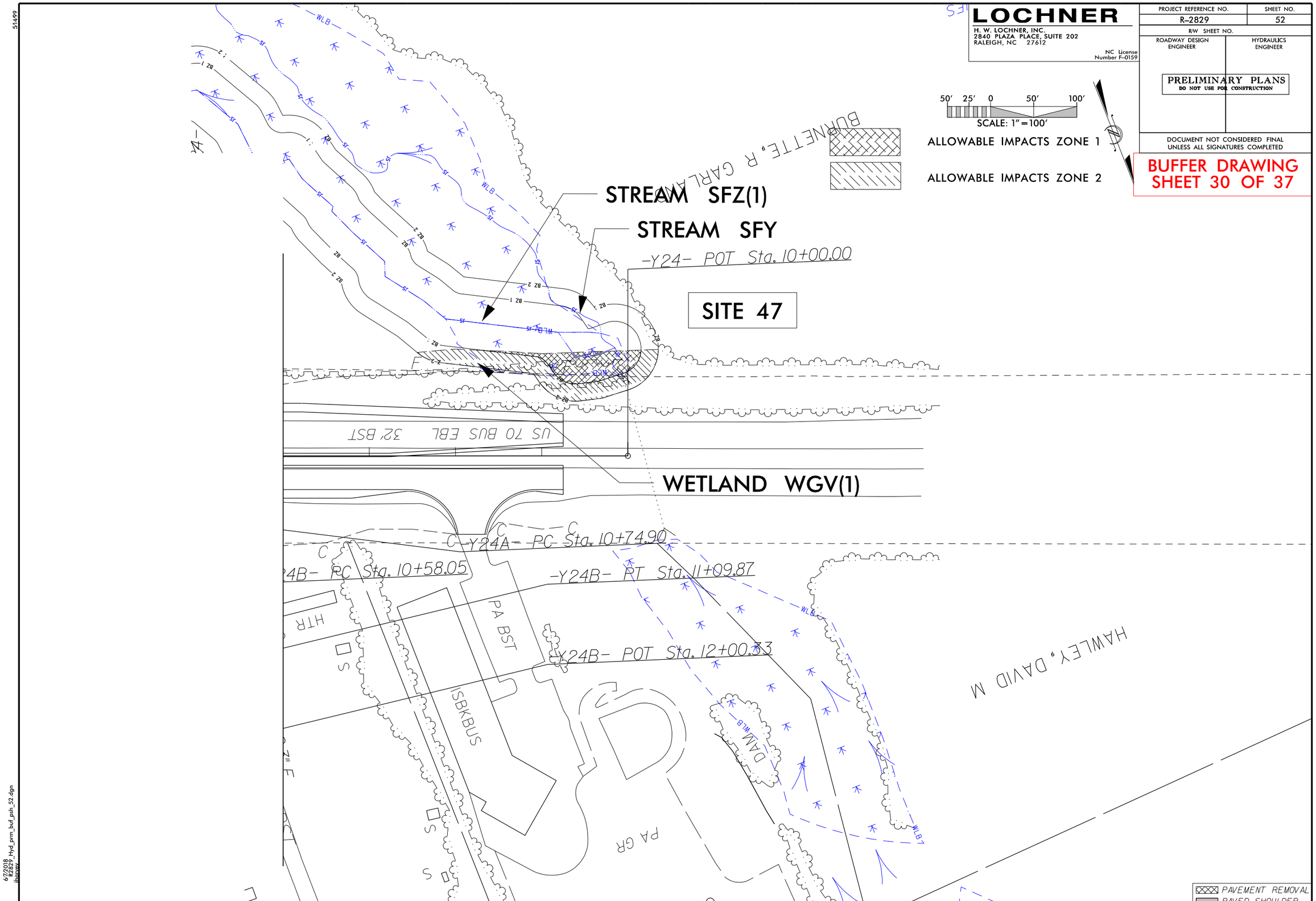
MT HERMAN CHRISTIAN CH

CLEMENTS, RUBY CLEMENTS, ET AL

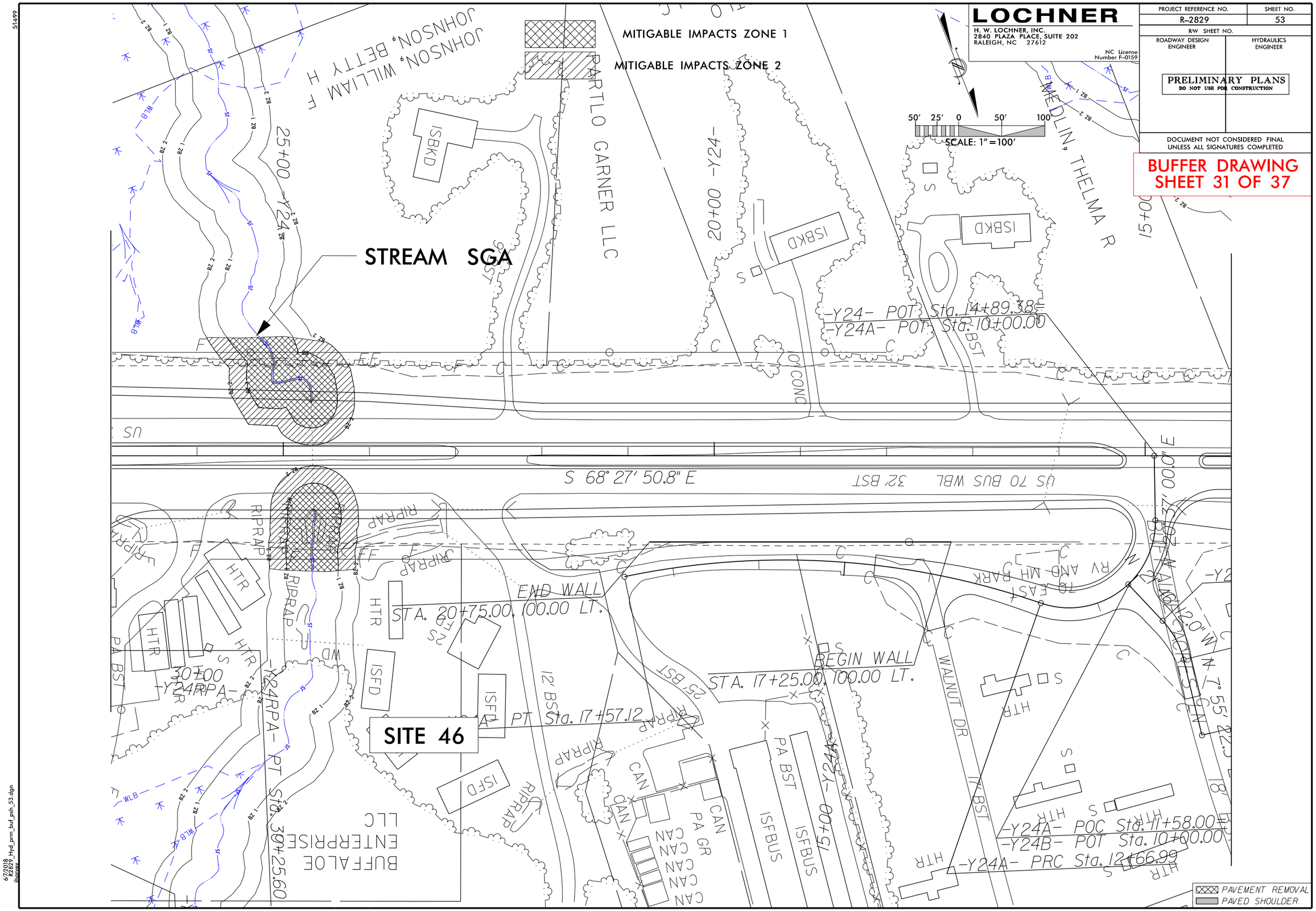
PAVEMENT REMOVAL

PAVED SHOULDER

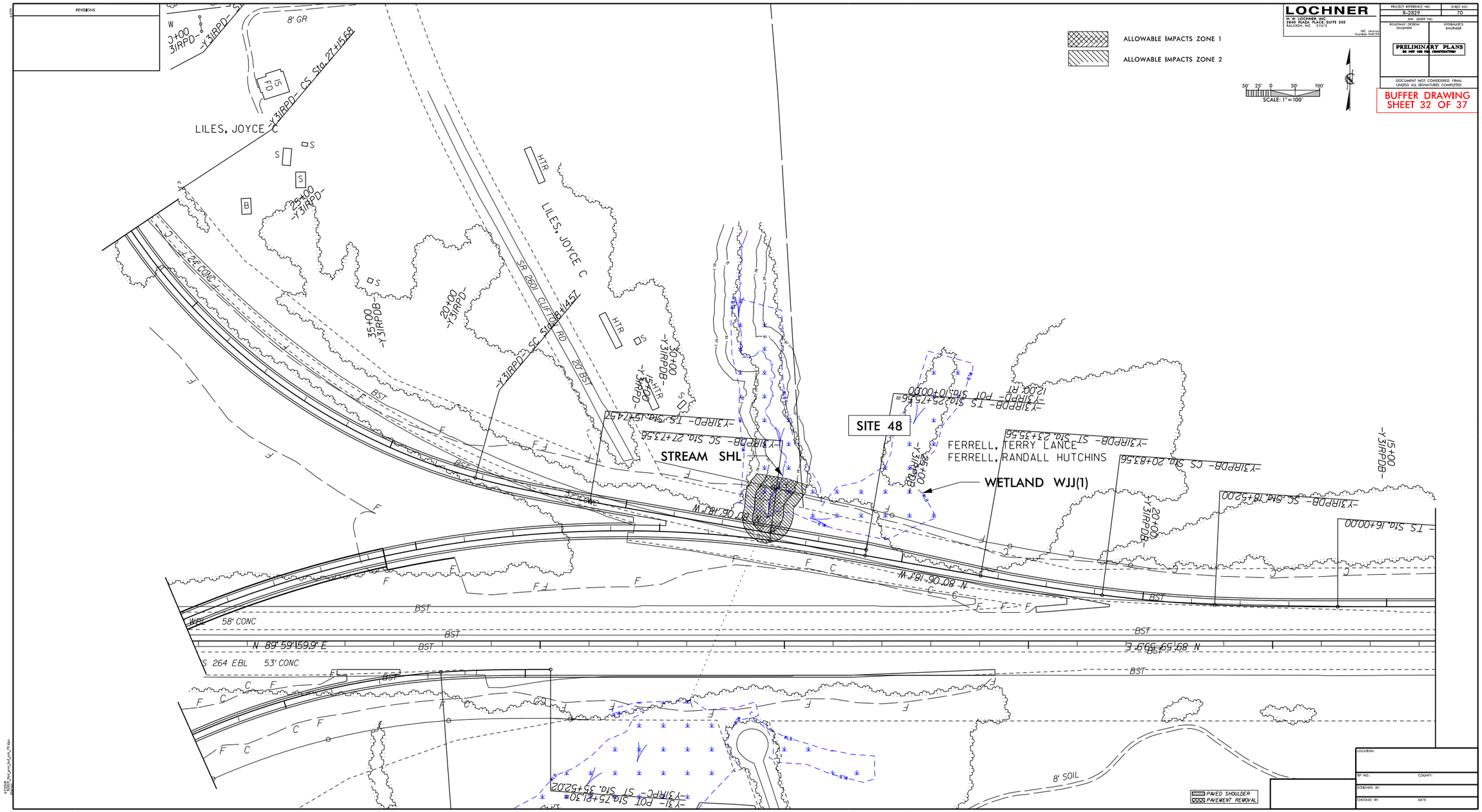
6/7/2018
R2829_Hyd_prm_buf_psh_47.dgn
jhorney



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
52
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 30 OF 37
50' 25' 0 50' 100'
SCALE: 1"=100'
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
STREAM SFZ(1)
STREAM SFY
-Y24- POT Sta. 10+00.00
SITE 47
WETLAND WGV(1)
US 70 BUS EBL 32' BST
-Y24A- PC Sta. 10+74.90
-Y24B- PC Sta. 10+58.05
-Y24B- PT Sta. 11+09.87
-Y24B- POT Sta. 12+00.33
PA BST
ISBKBUS
DAM
PA GR
HAWLEY, DAVID M
BURNETTE, R GARLAND
PAVEMENT REMOVAL
PAVED SHOULDER



LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
53
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 31 OF 37
MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
STREAM SGA
SITE 46
SCALE: 1" = 100'
50' 25' 0 50' 100'
JOHNSON, WILLIAM F
JOHNSON, BETTY H
PARTLO GARNER LLC
MEDLIN, THELMA R
25+00 -Y24-
20+00 -Y24-
15+00
-Y24- POT Sta. 14+89.38=
-Y24A- POT Sta. 10+00.00
S 68° 27' 50.8" E
US 70 BUS WBL 32' BST
END WALL
STA. 20+75.00, 100.00 LT.
BEGIN WALL
STA. 17+25.00, 100.00 LT.
-Y24A- POC Sta. 11+58.00=
-Y24B- POT Sta. 10+00.00
-Y24A- PRC Sta. 12+66.99
-Y24RPA- PT Sta. 30+25.60
-Y24RPA- PT Sta. 17+57.12
BUFFALOE ENTERPRISE LLC
WALNUT DR
RV AND MH PARK
PAVEMENT REMOVAL
PAVED SHOULDER



REVISIONS
LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159
PROJECT REFERENCE NO.
R-2829
SHEET NO.
70
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
BUFFER DRAWING
SHEET 32 OF 37
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2
SCALE: 1"=100'
LILES, JOYCE C
LILES, JOYCE C
SR 2601 CLIFTON RD
20' BST
STREAM SHL
SITE 48
FERRELL, TERRY LANCE
FERRELL, RANDALL HUTCHINS
WETLAND WJJ(1)
-Y31RPD- CS Sta. 27+15.68
-Y31RPD- SC Sta. 27+73.56
-Y31RPD- TS Sta. 15+74.57
-Y31RPD- POT Sta. 10+00.00
-Y31RPD- TS Sta. 25+75.56
-Y31RPD- CS Sta. 20+83.56
-Y31RPD- SC Sta. 18+52.00
-Y31RPD- TS Sta. 16+00.00
-Y31RPD- ST Sta. 23+35.56
-Y31RPD- ST Sta. 35+52.02
-Y31RPD- POT Sta. 75+21.30
N 80°06'18.1" W
N 89°59'59.9" E
S 264 EBL 53' CONC
58' CONC
8' GR
8' SOIL
PAVED SHOULDER
PAVEMENT REMOVAL
LOCATION:
BP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)
1	976+37 to 979+44-L-	BRIDGE	X	X		6659	5715	12374					
		ROADWAY FILL			X				15479	12011	27490		
2	976+58 to 979+89-L-LT	ROADWAY FILL	X						12293	8855	21148		
3	1007+96 to 1009+49-L-	ROADWAY FILL	X						22223	13708	35931		
4	1011+85 to 1015+53-L-	ROADWAY FILL	X						26398	16637	43035		
5	1012+66 to 1018+97-L-	ROADWAY FILL	X						35550	21959	57509		
6	1022+29 to 1025+15-L-	ROADWAY FILL	X						19783	14778	34561		
7	1034+65 to 1039+04-L-	ROADWAY FILL	X						24697	17560	42257		
8	1060+00 to 1065+86-L-	ROADWAY FILL	X						30738	23092	53830		
9	1061+97 to 1062+13-L-	ROADWAY FILL	X						19594	14426	34020		
10	30+57 to 31+03-Y23D-	ROADWAY FILL	X			6659	5715	12374	111943	73170	185113		
11	1084+02 to 1086+91-L-	BRIDGE		X		17803	14714	32517					
12	1098+19 to 1099+72-L-	ROADWAY FILL	X						10437	12987	23424		
13	1109+39 to 1111+59-L-LT	ROADWAY FILL			X	5618	5210	10828					
14	1112+95 to 1116+45-L-	ROADWAY FILL	X						33316	19625	52941		
15	1116+45 to 1119+60-L-	ROADWAY FILL	X						34055	20709	54764		
16	1123+16 to 1126+90-L-	ROADWAY FILL	X						29850	20197	50047		
17	1137+35 to 1142+62-L-	ROADWAY FILL	X						48646	36288	84934		
18	1151+14 to 1153+07-L-	ROADWAY FILL	X						37123	35817	72939		
19	1161+48 to 1163+46-L-	ROADWAY FILL	X						23785	19198	42983		
20	1169+36 to 1171+86-L-	ROADWAY FILL	X						27877	15152	43029		
21	1171+86 to 1177+50-L-	ROADWAY FILL	X						40587	24961	65548		
TOTALS*:						**36739**	**31354**	**68093**	**604374**	**421129**	**1025503**	**0**	**0**

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
7/31/2018
WAKE COUNTY
R-2829

Revised 2018 Feb

RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)
22	1172+84 to 1180+16-L-	ROADWAY FILL	X						29403	18439	47842		
23	1195+81 to 1197+53-L-	ROADWAY FILL			X		511	511					
24	16+56 to 21+00-Y27RPA-RT	ROADWAY FILL			X				10467	14498	24964		
25	12+84 to 19+06-Y27RPD-LT	ROADWAY FILL			X				12525	12156	24681		
26	1241+54 to 1425+30-L-	ROADWAY FILL	X						28071	17995	46066		
27	1268+71 to 1270+20-L-	ROADWAY FILL	X						14360	11002	25362		
28	1287+25 to 1288+82-L-	ROADWAY FILL	X						28554	18890	47444		
29	1314+30 to 1320+00-L-	ROADWAY FILL			X				21356	15373	36729		
				X		14229	6719	20948					
30	1320+00 to 1322+44-L-	BRIDGE		X		13439	7180	20619					
31	1324+06 to 1325+48-L-RT	ROADWAY FILL			X	0	511	511	94826	74089	168916		
32	1345+21 to 1350+58-L-	ROADWAY FILL	X						62578	32897	95475		
33	1347+13 to 1355+48-L-	ROADWAY FILL	X						59395	33366	92761		
34	1377+60 to 1381+40-L-RT	ROADWAY FILL			X				20238	13161	33398		
35	1380+19 to 1381+93-L-	ROADWAY FILL	X						15266	9586	24852		
36	1404+31 to 1405+98-L-	ROADWAY FILL	X						26039	17710	43749		
37	15+02 to 16+21-Y30RPB-LT	ROADWAY FILL			X	2533	3127	5660					
38	21+02 to 34+85-Y30-RT	ROADWAY FILL			X				77300	26249	103549		
39	34+32 to 35+90-Y30-	ROADWAY FILL	X						13102	6722	19824		
40	22+40 to 23+47-Y30RPD-LT	ROADWAY FILL			X	283	1974	2257					
41	1459+65 to 1469+99-L-	ROADWAY FILL			X				64807	38592	103400		
				X		21800	17616	39416					
TOTALS*:						**52285**	**37637**	**89922**	**578287**	**360725**	**939012**	**0**	**0**

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
7/31/2018
WAKE COUNTY
R-2829

Revised 2018 Feb

RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)
42	24+14 to 23+70-Y31RPB-	ROADWAY FILL	X						21997	14586	36583		
43	17+44 to 19+54-Y321LPD-LT	ROADWAY FILL			X				11356	10814	22170		
44	19+53 to 22+56-Y23D-	ROADWAY FILL	X						15035	10767	25802		
45	61+10 to 65+35-Y23-	ROADWAY FILL	X			6855	6263	13118					
46	24+13 to 25+89-Y24-	ROADWAY FILL	X						13891	12178	26069		
47	9+87 to 12+45-Y24-RT	ROADWAY FILL			X	3283	5704	8987					
48	11+42 to 12+60-Y31RPD-	ROADWAY FILL	X			6758	6091	12849					
	TOTALS SHEET 35					**16896**	**18058**	**34954**	**62279**	**48345**	**110624**		
	TOTALS SHEET 33					**36739**	**31354**	**68093**	**604374**	**421129**	**1025503**		
	TOTALS SHEET 34					**52285**	**37637**	**89922**	**578287**	**360725**	**939012**		
TOTALS*:						**105920**	**87049**	**192969**	**1244940**	**830199**	**2075139**	**0**	**0**

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
7/31/2018
WAKE COUNTY
R-2829

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)		WETLANDS IN BUFFERS ZONE 1 (ft^2)	WETLANDS IN BUFFERS ZONE 2 (ft^2)
1	976+37 to 979+44-L-		11301	2574
2	976+58 to 979+89-L-LT		6794	2923
5	1012+66 to 1018+97-L-		5835	38
6	1022+29 to 1025+15-L-		3684	919
7	1034+65 to 1039+04-L-		4484	1977
8	1060+00 to 1065+86-L-		916	
9	1061+97 to 1062+13-L-		937	
12	1098+19 to 1099+72-L-		8124	5398
13	1109+40 to 1111+59-L-LT		3934	1680
14	1112+95 to 1116+45-L-		17888	8918
15	1114+39 to 1119+60-L-		13745	9230
16	1123+16 to 1126+90-L-		10075	1256
18	1151+14 to 1153+07-L-		26681	9423
20	1169+36 to 1171+86-L-		16048	3862
21	1171+86 to 1177+50-L-		1674	
22	1172+84 to 1180+16-L-		12124	360
25	12+84 to 19+06-Y27RPD-LT		3948	851
26	1241+54 to 1425+30-L-		1114	146
27	1268+71 to 1270+20-L-		2148	16
TOTAL:			**151455**	**49570**

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
6/13/2018
WAKE COUNTY
R-2829

Revised 2018 Feb

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)		WETLANDS IN BUFFERS ZONE 1 (ft^2)	WETLANDS IN BUFFERS ZONE 2 (ft^2)
29	1314+30 to 1320+00-L-		4611	490
32	1345+21 to 1350+58-L-		6137	3805
34	1377+60 to 1381+40-L-RT		1791	1181
35	1380+19 to 1381+93-L-		2582	213
36	1404+31 to 1405+98-L-		11788	4780
37	15+02 to 16+21-Y30RPB-LT		2197	1937
38	21+02 to 34+85-Y30-RT		1621	4833
41	1459+65 to 1469+99-L-		62900	39991
42	24+14 to 23+70-Y31RPB-		16120	5897
43	17+44 to 19+54-Y321LPD-LT		772	493
47	9+87 to 12+45-Y24-RT		2393	1776
48	11+42 to 12+60-Y31RPD-		4556	2857
	TOTAL FROM THIS SHEET:		**117467**	**68253**
	TOTAL FROM SHEET 36:		**151455**	**49570**
TOTAL:			**268922**	**117823**

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
6/13/2018
WAKE COUNTY
R-2829

SHEET 37 OF 37

Revised 2018 Feb

TIP PROJECT: R–2829

Approved Preliminary Design
September 2017

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE & JOHNSTON COUNTY

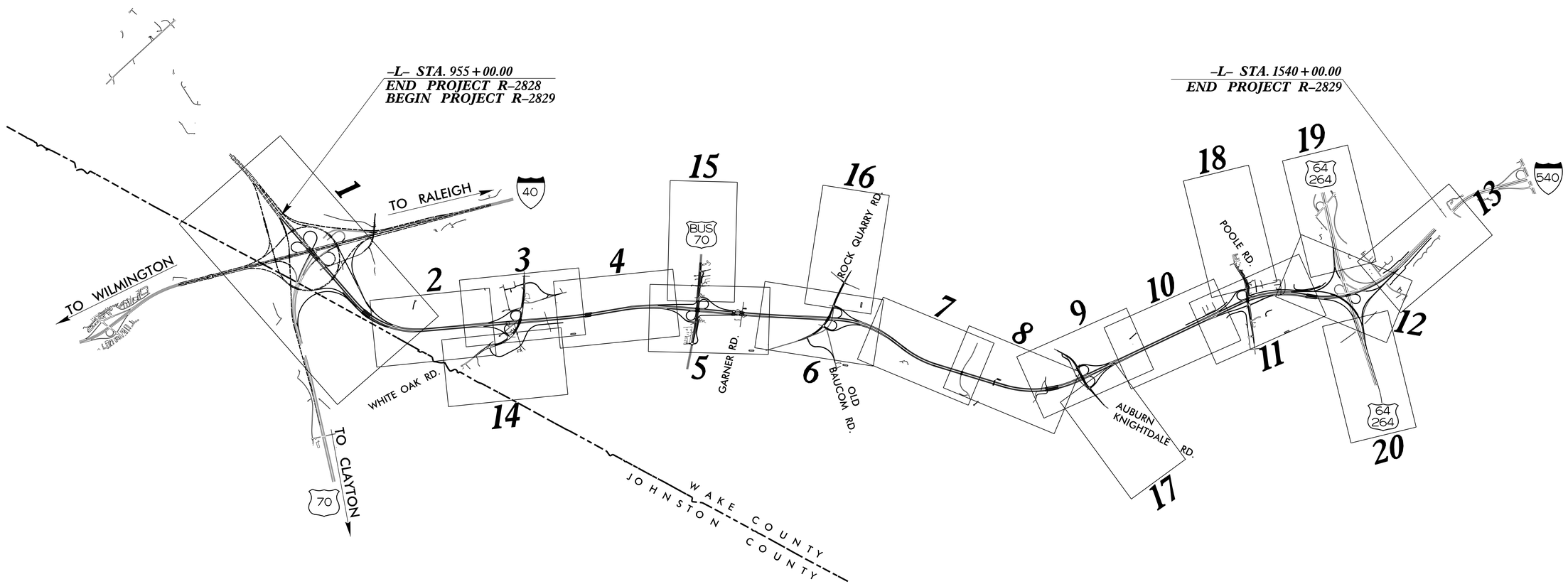
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R–2829	TS	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
6.401080	STP–540(21)	PE	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

LOCATION: COMPLETE 540 – FROM EAST OF I–40 TO EAST OF US 64/264 BYPASS / I–495

NAD 83 NC GRID



CONTRACT:

GRAPHIC SCALES

100′ 50′ 0 100′ 200′
PLANS

100′ 50′ 0 100′ 200′
PROFILE (HORIZONTAL)

10′ 5′ 0 10′ 20′
PROFILE (VERTICAL)

DESIGN DATA

ADT 2016 = 32,800
ADT 2040 = 68,700
DHV = 12 %
D = 55 %
T = 11 % *
V = 75 MPH

* TTST 7% DUAL 4%
FUNC. CLASS. = INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY STATE TIP PROJECT R–2829 = 11.080 Miles
TOTAL LENGTH STATE TIP PROJECT R–2829 = 11.080 Miles

Prepared in the Office of:

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

BRIAN K. EASON, PE
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

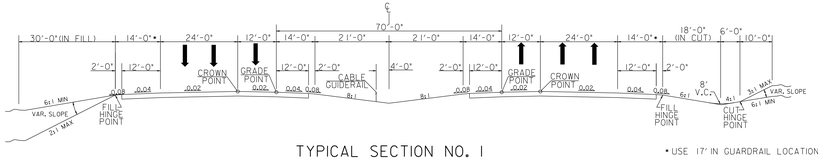
SIGNATURE: *P.E.*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER *P.E.*

ROLL TYP-1

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

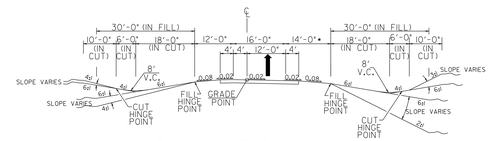


TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS:

TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION

• USE 17' IN GUARDRAIL LOCATIONS

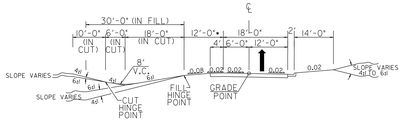


TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:

RAMPS, FLYOVER - SINGLE LANE

• USE 17' IN GUARDRAIL LOCATIONS

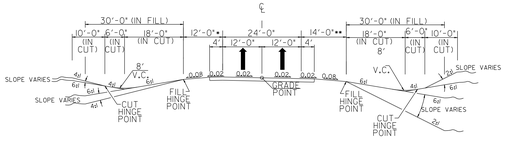


TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3 AS FOLLOWS:

LOOPS

• USE 15' IN GUARDRAIL LOCATIONS

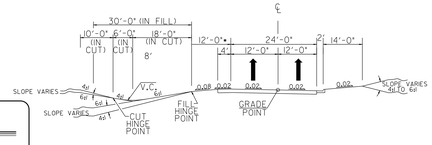


TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4 AS FOLLOWS:

FLYOVER - DUAL LANE

• USE 15' IN GUARDRAIL LOCATIONS
•• USE 17' IN GUARDRAIL LOCATIONS

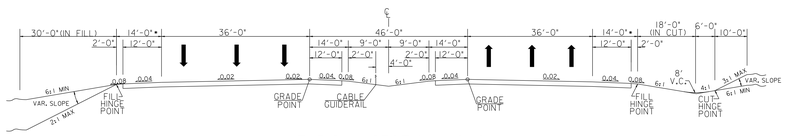


TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5 AS FOLLOWS:

LOOPS - DUAL LANE

• USE 15' IN GUARDRAIL LOCATIONS

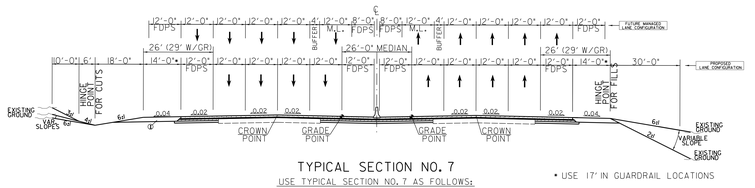


TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6 AS FOLLOWS:

-Y31- US 64/264

• USE 17' IN GUARDRAIL LOCATIONS

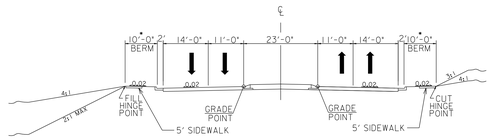


TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7 AS FOLLOWS:

-Y22- I-40

• USE 17' IN GUARDRAIL LOCATIONS

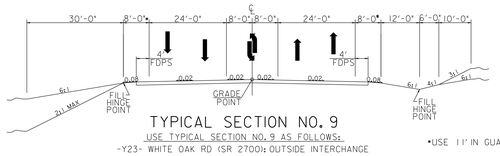


TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8 AS FOLLOWS:

-Y23- WHITE OAK RD (SR 2700): INSIDE INTERCHANGE

•USE 11' IN GUARDRAIL LOCATIONS

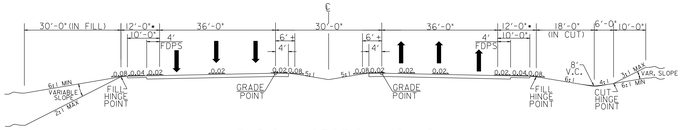


TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9 AS FOLLOWS:

-Y23- WHITE OAK RD (SR 2700): OUTSIDE INTERCHANGE

•USE 11' IN GUARDRAIL LOCATIONS

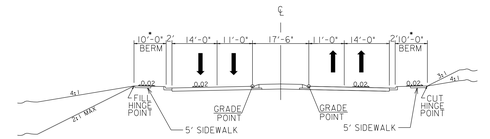


TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10 AS FOLLOWS:

-Y24- US 70

• USE 15' IN GUARDRAIL LOCATIONS
+ USE 9' IN GUARDRAIL LOCATIONS

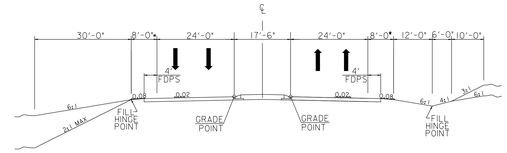


TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11 AS FOLLOWS:

-Y27- ROCK QUARRY RD (SR 2542): INSIDE INTERCHANGE

• USE 13' IN GUARDRAIL LOCATIONS

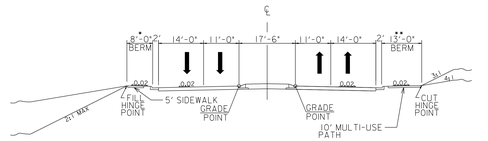


TYPICAL SECTION NO. 12

USE TYPICAL SECTION NO. 12 AS FOLLOWS:

-Y27- ROCK QUARRY RD (SR 2542): OUTSIDE INTERCHANGE
-Y29- AUBURN KNIGHTDALE RD (SR 2555): OUTSIDE INTERCHANGE

•USE 11' IN GUARDRAIL LOCATIONS

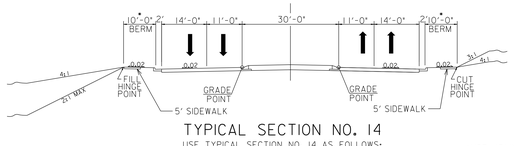


TYPICAL SECTION NO. 13

USE TYPICAL SECTION NO. 13 AS FOLLOWS:

-Y29- AUBURN KNIGHTDALE RD (SR 2555): INSIDE INTERCHANGE

•USE 11' IN GUARDRAIL LOCATIONS
••USE 16' IN GUARDRAIL LOCATIONS

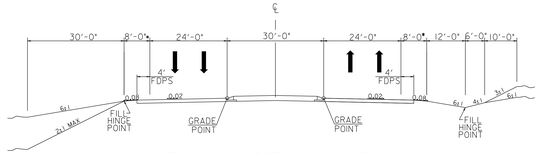


TYPICAL SECTION NO. 14

USE TYPICAL SECTION NO. 14 AS FOLLOWS:

-Y30- WHITE OAK RD (SR 1007): INSIDE INTERCHANGE

•USE 13' IN GUARDRAIL LOCATIONS

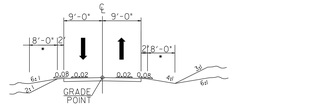


TYPICAL SECTION NO. 15

USE TYPICAL SECTION NO. 15 AS FOLLOWS:

-Y30- WHITE OAK RD (SR 1007): OUTSIDE INTERCHANGE

•USE 11' IN GUARDRAIL LOCATIONS

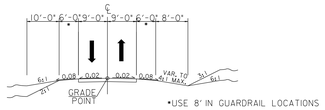


TYPICAL SECTION NO. 16

USE TYPICAL SECTION NO. 16 AS FOLLOWS:

SERVICE ROADS

•USE 11' IN GUARDRAIL LOCATIONS

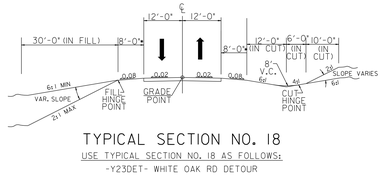


TYPICAL SECTION NO. 17

USE TYPICAL SECTION NO. 17 AS FOLLOWS:

SUBDIVISION ROADS

•USE 8' IN GUARDRAIL LOCATIONS



TYPICAL SECTION NO. 18

USE TYPICAL SECTION NO. 18 AS FOLLOWS:

-Y23DET- WHITE OAK RD DETOUR

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829 2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829 2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER

SHEET 1 OF 41

200' 0' 200' 400'
100'
(ENGLISH)

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

SHEET 1 OF 41

200' 0' 200' 400'
100'
(ENGLISH)

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

BEGIN PROJECT R-2829
STA. 955+00.00

-L- MATCHLINE
STA. 970+00.00
AHEAD
-L- STA. 970+00.00
BACK

A

B

C

D

E

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

WBS Nos. 35512.1.TA1
T.I.P. NOs.
R-2829

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESSWAY

PREPARED BY:
H. W. Lochner, Inc.

LOCHNER
H. W. LOCHNER, INC.
16 WEST MARTIN STREET, SUITE 1000
RALEIGH, NC 27601

NOTE:
DASHED ITEMS TO BE CONSTRUCTED UNDER T.I.P.R-2829.
GRADING TO BE COMPLETED UP TO -L- STA. 955+00.00

I-40
17,600
15,500
COMPLETE 540
21,000
26,000
49,600
52,000
68,400
72,200
49,600
52,000
68,400
72,200
I-40
2016 ADT
2040 ADT
COMPLETE 540
US 70 BYPASS
ISLAND CREEK SECTION A

SEE ROLL D FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

WBS Nos. 35512.1.TA1
T.I.P. NOs.
R-2829

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESSWAY

PREPARED BY:
H. W. Lochner, Inc.

LOCHNER
H. W. LOCHNER, INC.
16 WEST MARTIN STREET, SUITE 1000
RALEIGH, NC 27601

ROLL 2 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

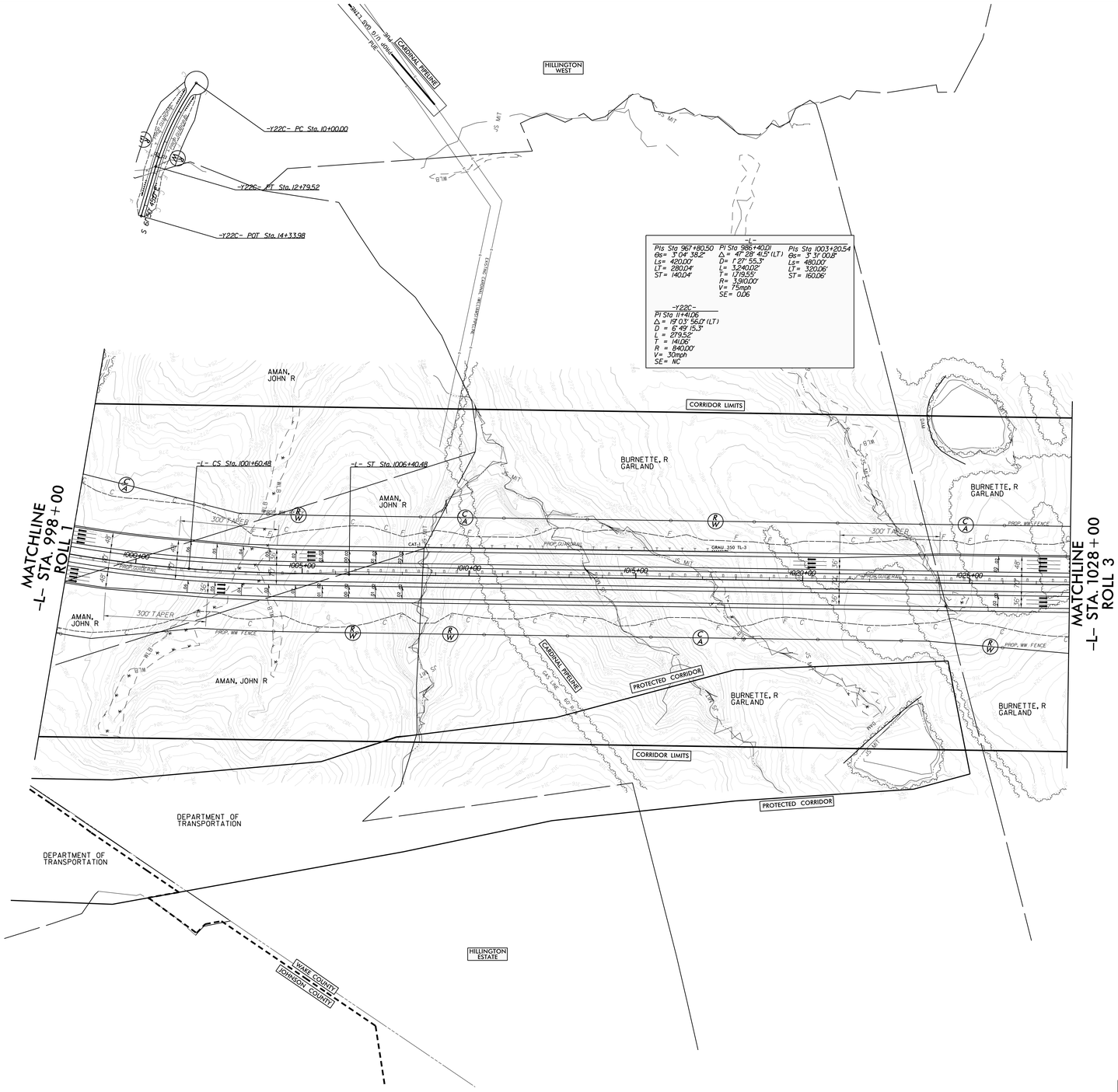
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 2 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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



COMPLETE 540
WAKE AND JOHNSTON COUNTIES
TIP. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.1A1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
4700 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
(919) 872-5115
NC FIRM P-0891

SEE ROLL 22 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
TIP. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.1A1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
4700 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
(919) 872-5115
NC FIRM P-0891

ROLL 3 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

(337) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST
(338) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST

(339) LEACH, ZOLA M HEIRS
(340) LEACH, ZOLA M HEIRS
(341) ONEAL-GAMBOA, TISHA
(342) ONEAL-GAMBOA, TISHA
(343) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST
(344) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST
(345) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST
(346) BRIGHT, PAMELA BATEY TRUSTEE
PAMELA BATEY BRIGHT
REVOCABLE LIVING TRUST
(347) PLATINUM INVESTORS LLC
(348) GILCHRIST, DERRICK G
GILCHRIST, MAGGIE ALAINA

(349) FOSTER, JOHN EARLY III
(350) FOSTER, JOHN EARLY III
(351) FOSTER, JOHN EARLY III
(352) DEAN, DONALD RAY
DEAN, KAY M
(353) DEAN, DONALD RAY
DEAN, KAY M

(1789) FULLER, KIT
(1790) PARAMORE, JENNIFER H
PARAMORE, MICHAEL
(1791) BLOMS, KENT N
BLOMS, DENA M
(1792) LITTMATH, JEFFREY A
(1793) SAFRAN, SUSAN M

(285) STANCIL, CECIL C
STANCIL, EDNA P
(286) EATMON, NANCY M
(287) RHODES, BARBARA S
CHRISTODOLOU, CHRISTO
CHRISTODOLOU, ANTHEA B
(289) MANGUM, JAMES BRET
MANGUM, FELICIA P
(290) MANGUM, JAMES BRET
MANGUM, FELICIA PARRISH
(291) COBOS, OSCAR B
COBOS, ROSALBA S
(292) PARRISH, ELLA GRACE
PARRISH, PHILLIP WEST
(293) PARRISH, ELLA GRACE
PARRISH, PHILLIP WEST
(294) COX, JAMES WILLIAM
(295) SMITH, GARRY D
SMITH, JOYCE W
(296) WIGGINS, DARRELL
WIGGINS, STEPHANIE WIGGINS
(297) DEVANE, ERNEST
WILLIAMS-DEVANE, CLARLYNDA
(298) CLAIR, STEVE J

(299) WIGGINS, DARRELL
WIGGINS, STEPHANIE WIGGINS
(300) PEACOCK, SCOTT FITZGERALD
MATTHEWS, SYLVIA DIANE
(301) PEACOCK, SCOTT FITZGERALD
MATTHEWS, SYLVIA DIANE
(302) WARD, LESLIE L
WARD, JOSEPH BRENT
(303) BENITEZ, LAURENCIO CRUZ
BENITEZ, LEONARDA
(304) MCKITHEN, YOLANDA
(305) SAMPSON, ROSELYN
(306) BOYKIN, JOHN FRANKLIN
(307) BOYKIN, JOHN FRANKLIN
(308) LENGER, JERRY P
(309) LENGER, JERRY P
(310) ALLEN, MOLLIE BOYLEN
HEIRS
(311) ALLEN, MOLLIE BOYLEN
HEIRS
(312) MITCHELL, ELIZABETH DODD
HEIRS
(313) SMITH, LILA MAE
SMITH, SAMUEL LEE ZACHARY TERRY
(314) SMITH, LILA MAE
SMITH, SAMUEL LEE
(315) SMITH, LILA MAE
SMITH, SAMUEL LEE ZACHARY

WHITE OAK RD
12,900
19,200
6,000 6,500 | 2,800 4,400 | COMPLETE 540 | 23,800 29,000 | 4,200 5,900
23,000 26,200
COMPLETE 540 200 900
8,500 15,100
WHITE OAK RD
2016 ADT
2040 ADT

-L-	-Y23-	-Y23A-
PI Sta 1081+80.79	PI Sta 44+01.28	PI Sta 65+52.34	PI Sta 15+20.57	PI Sta 161+35.66
Δ = 4°39'12.5" (LT)	Δ = 65°35'19.0" (LT)	Δ = 7°39'16.2" (LT)	Δ = 27°26'24.5" (LT)	Δ = 25°25'13.8" (RT)
D= 1°15'45.7"	D = 9°16'26.6"	D = 2°55'56.6"	D = 32°55'05.9"	D = 22°55'05.9"
L= 2,030.45'	L = 2,003.27'	L = 534.39'	L = 193.73'	L = 110.92'
T = 1,015.79'	T = 1,127.55'	T = 267.59'	T = 61.04'	T = 56.39'
R = 4,750.00'	R = 750.00'	R = 4,000.00'	R = 250.00'	R = 250.00'
V= 75mph	V= 50mph	V= 50mph	V= 25mph	V= 25mph
SE= NC	SE= 0.05	SE= 0.03	SE= 0.04	SE= 0.04

-Y23B-	-Y23C-	-Y23D-	-Y23LPB-	
PI Sta 15+32.63	PI Sta 23+93.10	PI Sta 11+66.83	PI Sta 40+13.11	PI Sta 11+69.32	PI Sta 17+11.06	PIs Sta 18+45.46
Δ = 72°02'20.5" (RT)	Δ = 71°49'40.3" (LT)	Δ = 56°34'03.7" (RT)	Δ = 60°56'53.0" (RT)	Gs= 3°08'20.4"	Δ = 126°58'32.6" (RT)	Gs= 3°08'20.4"
D= 11°48'48.8"	D = 6°52'41.7"	D= 2°48'18.2"	D = 7°32'20.1"	Ls= 250.00'	D= 24°54'40.4"	Ls= 250.00'
L= 602.80'	L = 1044.28'	L= 228.06'	L = 808.45'	LT= 169.32'	L= 509.71'	LT= 169.32'
T= 352.63'	T = 603.30'	T= 124.30'	T = 447.21'	ST= 85.75'	T= 461.06'	ST= 85.75'
R= 485.00'	R = 833.00'	R= 2,310.00'	R = 760.00'		R= 230.00'	
V= 40mph	V= 40mph	V= 25mph	V= 30mph		V= 30mph	
SE= 0.06	SE= 0.06	SE= 0.04	SE= NC		SE= 0.08	

-Y23RPB-			
PIs Sta 11+33.35	PI Sta 17+09.97	PIs Sta 22+68.50	PIs Sta 25+35.46	PI Sta 27+83.05
Gs = 2°37'41.7"	Δ = 26°19'59.0" (LT)	Gs = 2°37'41.7"	Gs = 9°42'40.1"	Δ = 34°07'55.7" (RT)
Ls = 200.00'	D = 2°37'41.7"	Ls = 200.00'	Ls = 200.00'	D = 9°42'40.1"
LT = 100.02'	L = 1,001.92'	LT = 133.35'	LT = 133.53'	L = 354.47'
ST = 66.68'	T = 509.97'	ST = 66.68'	ST = 66.85'	T = 181.13'
	R = 2,180.00'			R = 590.00'
	V= 65mph			V= 45mph
	SE= 0.01			SE= 0.08

-Y23LPC-		-Y23RPC-	
PIs Sta 11+69.32	PI Sta 14+10.24	PIs Sta 16+15.66	PIs Sta 15+18.82	PI Sta 20+82.12
Gs = 3°08'20.4"	Δ = 69°43'42.2" (LT)	Gs = 3°08'20.4"	Gs= 4°21'18.2"	Δ = 36°14'18.0" (RT)
Ls = 250.00'	D = 8°24'54.4"	Ls = 250.00'	Ls= 225.00'	D= 3°52'16.8"
LT = 169.32'	L = 279.59'	LT = 169.32'	LT = 150.05'	L= 943.39'
ST = 85.75'	T = 160.24'	ST = 85.75'	ST = 75.04'	T= 488.34'
	R = 230.00'			R= 1,480.00'
	V= 30mph			V= 65mph
	SE= 0.08			SE= 0.08

(316) GARRIS, LINWOOD E
GARRIS, HOLLY B
(317) GARRIS, LINWOOD
GARRIS, HOLLY B
(318) MITCHELL, CHARLES DODD
(319) MITCHELL, CHARLES DODD
(320) WAKE COUNTY
(321) TURNER, LUTRICIA T
(322) TURNER, JAMES JR
TURNER, DONAPHINE J
(323) TURNER, JAMES L
TURNER, DONAPHINE J
(324) TURNER, JAMES L
TURNER, DONAPHINE J
(325) FOSTER, JOHN E III
(326) FOSTER, JOHN EARLY III

(327) FOSTER, JOHN EARLY III
(328) FOSTER, JOHN EARLY III
(329) GANUS, GEORGE W
(330) MCGRATH, MARK ROBERT
MCGRATH, NANCY JOAN
(331) YARBROUGH, HEATHER
(332) EDGERTON, DENNIS E
EDGERTON, KATIE S
(333) JONES, ELLIS R
(334) JONES, ELLIS R
JONES, ORA M
(335) SMITH, KENNETH BRYANT
(336) SMITH, KENNETH BRYANT

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.400880
FEDERAL AID PROJECT NO. STP-540(23)
WBS NO. 35571.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NC 27609
PH: (919) 872-5115
NC FIRM P-0891

MATCHLINE -L- STA. 1028+00 ROLL 2

MATCHLINE -L- STA. 1080+00 ROLL 4

MATCHLINE -Y23- STA. 39+00 ROLL 14

MATCHLINE -Y23D- STA. 33+00 ROLL 14

★ PROPOSED SIGNAL

SEE ROLL 3A FOR -Y23DET- | SEE ROLL 23 FOR PROFILE | SEE ROLL 34 FOR PROFILE

ROLL 3 OF 41
100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.400880
FEDERAL AID PROJECT NO. STP-540(23)
WBS NO. 35571.1.TA1
PREPARED FOR:
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AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
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1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NC 27609
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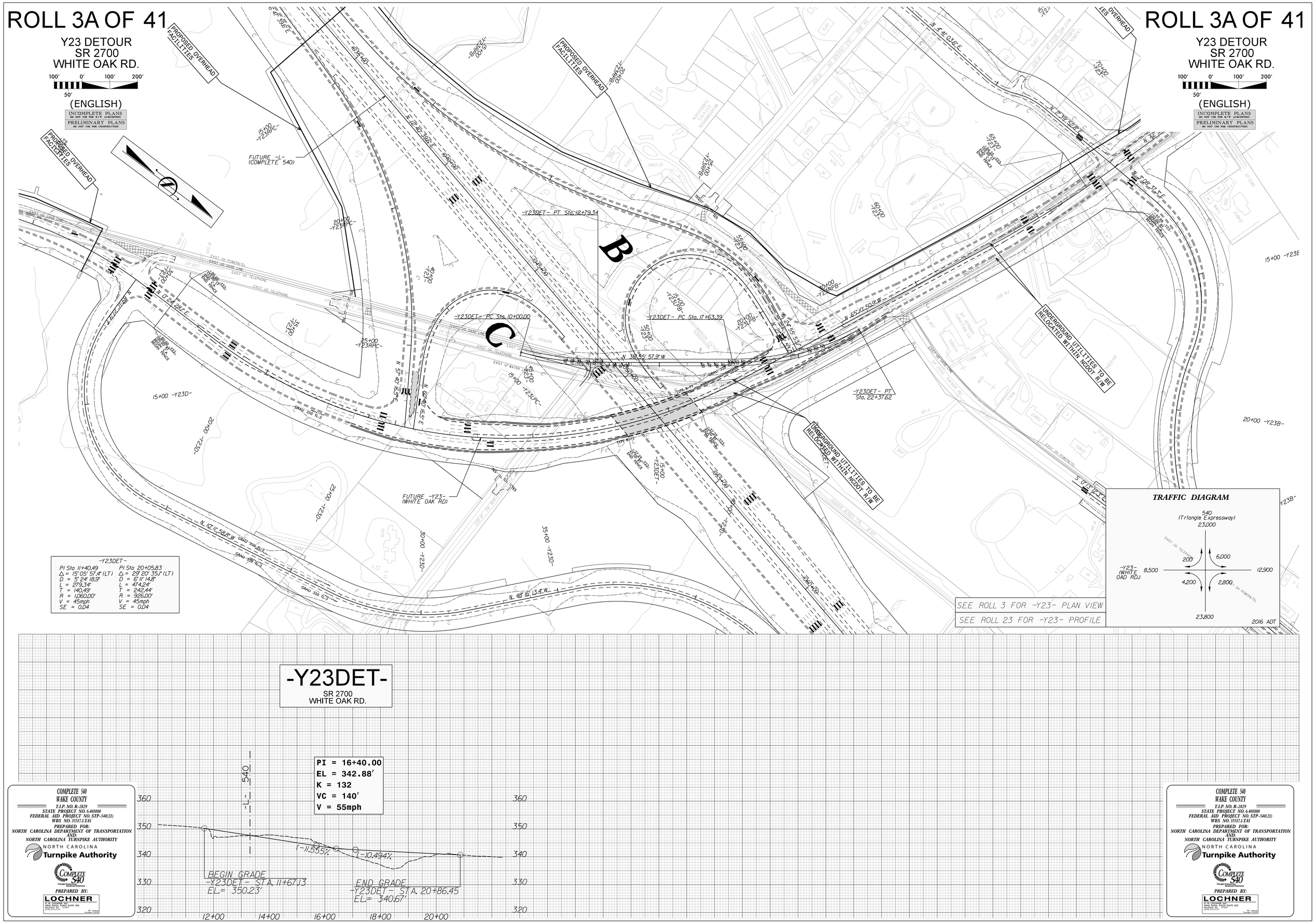
NC FIRM P-0891


ROLL 3A OF 41
Y23 DETOUR
SR 2700
WHITE OAK RD.
(ENGLISH)
INCOMPLETE PLANS
PRELIMINARY PLANS
PROPOSED OVERHEAD FACILITIES
FUTURE -L- (COMPLETE 540)
-Y23DET- PT Sta. 12+79.34
-Y23DET- PC Sta. 10+00.00
-Y23DET- PC Sta. 17+63.39
-Y23DET- PT Sta. 22+37.62
UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W
FUTURE -Y23- (WHITE OAK RD)
B
C
-Y23DET-
PI Sta 11+40.49
Δ = 15° 05' 57.4" (LT)
D = 5° 24' 18.9"
L = 279.34'
T = 140.49'
R = 1,060.00'
V = 45mph
SE = 0.04
PI Sta 20+05.83
Δ = 29° 20' 35.1" (LT)
D = 6° 11' 14.8"
L = 474.24'
T = 242.44'
R = 926.00'
V = 45mph
SE = 0.04
TRAFFIC DIAGRAM
540 (Triangle Expressway)
23,000
-Y23- (WHITE OAD RD.)
8,500
12,900
200
6,000
4,200
2,800
23,800
2016 ADT
SEE ROLL 3 FOR -Y23- PLAN VIEW
SEE ROLL 23 FOR -Y23- PROFILE
-Y23DET-
SR 2700
WHITE OAK RD.
PI = 16+40.00
EL = 342.88'
K = 132
VC = 140'
V = 55mph
-L- 540
(-)1.555%
(-)0.494%
BEGIN GRADE
-Y23DET- STA. 11+67.13
EL.= 350.23'
END GRADE
-Y23DET- STA. 20+86.45
EL.= 340.67'
360
350
340
330
320
12+00
14+00
16+00
18+00
20+00
COMPLETE 540
WAKE COUNTY
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA
Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

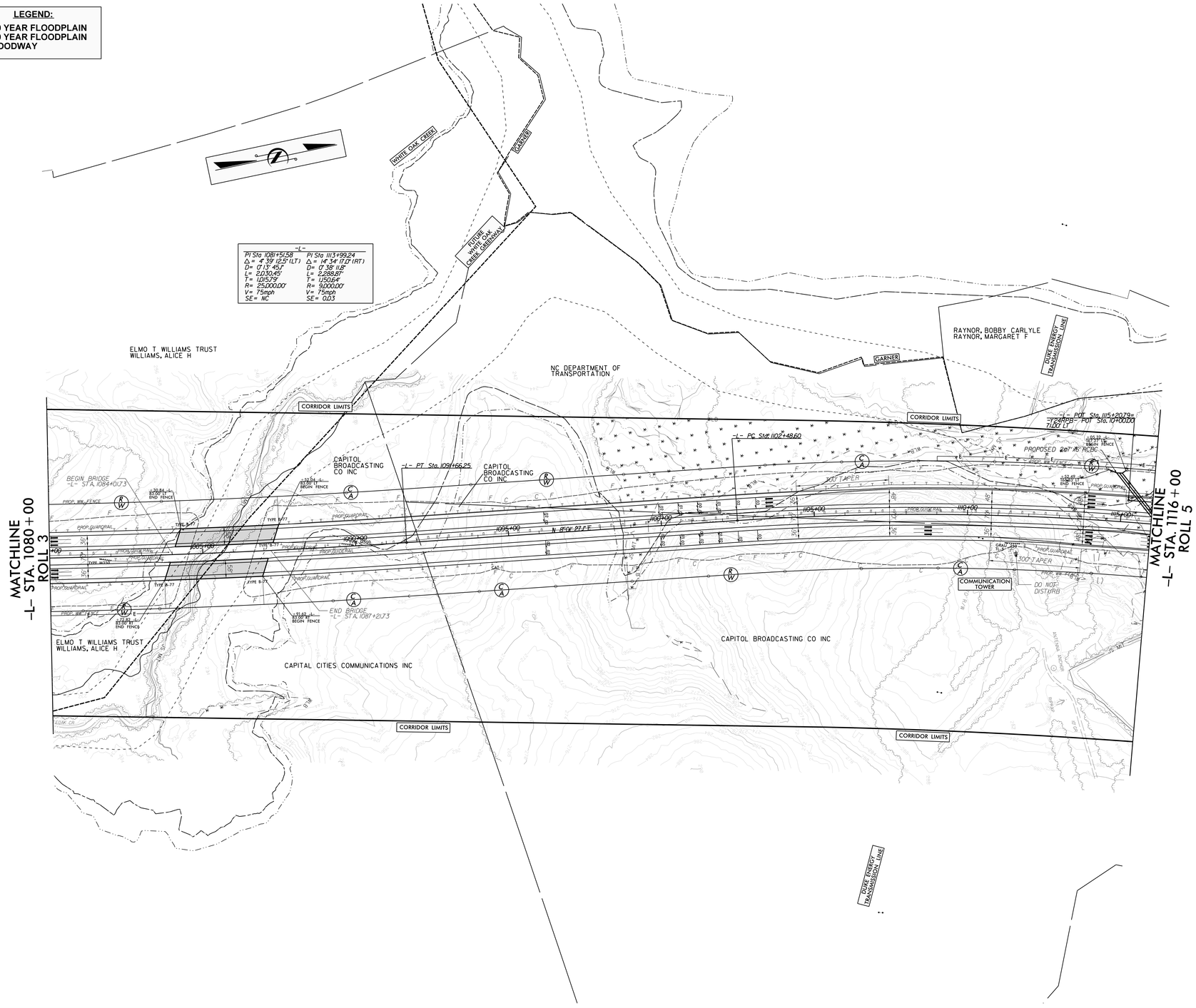
ROLL 4 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:

- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY



COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

SEE ROLL 24 FOR PROFILE

ROLL 5 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
-·-·- 100 YEAR FLOODPLAIN
-·-·- 500 YEAR FLOODPLAIN
- - - FLOODWAY

MATCHLINE
-Y24- STA. 24+00
ROLL 15

MATCHLINE
-L- STA. 1116+00
ROLL 4

MATCHLINE
-L- STA. 1172+00
ROLL 6

US 70
34,700
59,600
4,100 2,600
2,200 10,700 COMPLETE 540
23,800 29,000
22,500 38,700
COMPLETE 540 2,300 3,800
2,900 5,400
33,600 55,500 US 70
2016 ADT
2040 ADT

ROLL 5 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

RAYNOR, BOBBY CARLYLE
RAYNOR, MARGARET F

JOHNSON, WILLIAM F
JOHNSON, BETTY H

BUFFALOE ENTERPRISES LLC

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

BUFFALOE ENTERPRISES LLC

PROPOSED OVERHEAD FACILITIES

CORRIDOR LIMITS

GARNER

NC RAILROAD COMPANY

CATES, JEFFREY PAUL CATES, NANCY STEWART

EDGE OF AUBURN LLC

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

L & L COMPANY LLC

CAPITOL BROADCASTING CO INC

ROGERS, RICHARD TRUSTEE
ROGERS, ANN R TRUSTEE

LEE, EONICE R

OWNER, LISA DIANE

STALLINGS, LARRY ROGER

POND TO BE DRAINED

PROPOSED OVERHEAD FACILITIES

PROPOSED 210"x5" RCBC

PARCEL MAY CONTAIN UNDERGROUND STORAGE TANK

END BRIDGE -L- STA. 1158+32.28

WILLIAMS, PATRICIA

PRICE, JOE LOUIS JR
PRICE, JOEATTA PATRICIA

WATTS, LAURA L
WATTS, BARBARA B

MCINTYRE, JOHN BAPTIST

WATTS, MARY MONTAGUE
WATTS, LAURA L

NORFOLK SOUTHERN RAILWAY

NC RAILROAD COMPANY

AUBURN ASSOCIATES

L & L COMPANY LLC

MURRAY, BOBBY L SR HEIRS

STORE MASTER FUNDING IILLC

PIERCE HARDY LIMITED PARTNERSHIP

BENNER, IRMA SMITH
WILLARD, JUANITA SMITH

SMITH, KENNETH J JR
BRANNAN, ELIZABETH S

MURPHY, MAE ELLEN GREGORY HEIRS

AUBURN TOWER PARTNERSHIP

COMMUNICATION TOWER

TV TOWER RD.

SR 1004 GARNER RD.

US 70 BUSINESS

A

B

C

D

-L-

PI Sta 1113+99.24	PI Sta 1172+16.96	PI Sta 39+39.63
Δ = 14° 34' 17.12" (RT)	Δ = 1° 58' 44.2" (LT)	Δ = 7° 17' 36.5" (RT)
D= 0° 38' 11.8"	D= 0° 05' 43.8"	D = 0° 29' 59.9"
L= 2,288.83'	L= 3,072.36'	L = 1,458.80'
T= 1,150.64'	T= 1,036.29'	T = 730.39'
R= 9,000.00'	R= 60,000.00'	R = 11,460.00'
V= 75mph	V= 75mph	V= 60mph
SE= 0.03	SE= NC	SE= NC

-Y24LPA-

PIs Sta 1116+69.32	PI Sta 21+67.73	PIs Sta 21+71.28	PIs Sta 25+02.79
6s= 3° 08' 20.4"	Δ = 208° 08' 22.0" (LT)	6s= 3° 08' 20.4"	6s= 0° 37' 19.9"
Ls= 250.00'	D= 24° 54' 40.4"	Ls= 250.00'	Ls= 250.00'
LT= 169.32'	L= 835.53'	LT= 169.32'	LT= 166.67'
ST= 85.75'	T= 917.72'	ST= 85.75'	ST= 83.33'
	R= 230.00'		
	V= 30mph		
	SE= 0.08		

-Y24RPB-

PI Sta 22+58.12	PI Sta 34+02.97	PIs Sta 11+69.32	-Y24LPC-	
Δ = 1° 04' 28.2" (RT)	Δ = 85° 39' 42.4" (LT)	6s= 3° 08' 20.4"	PI Sta 23+37.28	PIs Sta 21+65.40
D= 0° 26' 39.0"	D= 26° 16' 56.5"	Ls= 250.00'	Δ = 206° 13' 40.2" (LT)	6s= 0° 35' 53.0"
L= 241.56'	L= 325.93'	LT= 169.32'	D= 24° 54' 40.4"	Ls= 250.00'
T= 120.96'	T= 202.09'	ST= 85.75'	L= 857.85'	LT= 167.84'
R= 12,900.00'	R= 218.00'		T= 987.28'	ST= 87.55'
V= 65mph	V= 30mph		R= 230.00'	
SE= NC	SE= 0.08		V= 30mph	
			SE= 0.08	

-Y24RPC-

PIs Sta 11+20.28	PIs Sta 15+18.54	PI Sta 19+94.98	PIs Sta 22+23.37	PIs Sta 25+27.19	PI Sta 27+05.70
6s= 0° 38' 29.6"	Δ = 16° 37' 35.6" (RT)	Δ = 16° 56' 43.0" (RT)	Δ = 5° 23' 16.5"	6s= 14° 15' 26.2"	Δ = 21° 40' 35.9" (LT)
6s= 2° 37' 42.2"	D= 2° 37' 41.7"	D= 5° 15' 23.4"	Ls= 205.00'	Ls= 250.00'	D= 11° 27' 33.0"
Ls= 200.00'	L= 6,312.65'	L= 1,092.37'	LT= 136.73'	LT= 163.25'	L= 189.16'
LT= 120.28'	T= 3,185.54'	T= 1,162.37'	ST= 68.39'	ST= 83.83'	T= 95.73'
ST= 79.77'	R= 2,180.00'	R= 1,090.00'			R= 500.00'
	V= 65mph	V= 55mph			V= 40mph
	SE= 0.07	SE= 0.08			SE= 0.08

-Y24C-

PI Sta 13+42.04	PI Sta 17+02.37	PI Sta 14+56.68	PI Sta 34+22.77
Δ = 114° 15' 13.7" (LT)	Δ = 24° 23' 02.9" (RT)	Δ = 5° 13' 46.4" (LT)	Δ = 81° 13' 09.8" (LT)
D = 31° 49' 51.6"	D = 19° 05' 54.5"	D = 0° 34' 22.5"	D = 26° 16' 56.5"
L = 358.96'	L = 127.68'	L = 912.73'	T = 186.91'
T = 278.55'	T = 64.82'	T = 456.58'	L = 309.03'
R = 180.00'	R = 300.00'	R = 10,000.00'	R = 218.00'
V= 25mph	V= 25mph	V= 65mph	V= 30mph
SE= 0.04	SE= 0.04	SE= 0.02	SE= 0.08

-Y24RPD-

PIs Sta 17+11.80	PIs Sta 21+00.24	PIs Sta 24+79.63	PIs Sta 27+63.27	PI Sta 29+29.18
6s= 4° 21' 18.5"	Δ = 23° 55' 01.7" (RT)	6s= 4° 21' 18.5"	6s= 12° 43' 56.6"	Δ = 24° 57' 21.2" (LT)
Ls= 225.00'	D= 3° 52' 16.8"	Ls= 225.00'	Ls= 200.00'	D= 12° 43' 56.6"
LT= 152.05'	L= 617.84'	LT= 150.05'	LT= 133.66'	L= 196.01'
ST= 75.04'	T= 313.49'	ST= 75.04'	ST= 66.98'	T= 99.58'
	R= 1,480.00'			R= 450.00'
	V= 65mph			V= 40mph
	SE= 0.08			SE= 0.08

-Y24RPA-

PI Sta 13+42.04	PI Sta 17+02.37	PI Sta 14+56.68	PI Sta 34+22.77	
Δ = 114° 15' 13.7" (LT)	Δ = 24° 23' 02.9" (RT)	Δ = 5° 13' 46.4" (LT)	Δ = 81° 13' 09.8" (LT)	
D = 31° 49' 51.6"	D = 19° 05' 54.5"	D = 0° 34' 22.5"	D = 26° 16' 56.5"	
L = 358.96'	L = 127.68'	L = 912.73'	T = 186.91'	
T = 278.55'	T = 64.82'	T = 456.58'	L = 309.03'	
R = 180.00'	R = 300.00'	R = 10,000.00'	R = 218.00'	
V= 25mph	V= 25mph	V= 65mph	V= 30mph	
SE= 0.04	SE= 0.04	SE= 0.02	SE= 0.08	

PI Sta 17+11.80	PI Sta 21+00.24	PIs Sta 24+79.63	PIs Sta 27+63.27	PI Sta 29+29.18
6s= 4° 21' 18.5"	Δ = 23° 55' 01.7" (RT)	6s= 4° 21' 18.5"	6s= 12° 43' 56.6"	Δ = 24° 57' 21.2" (LT)
Ls= 225.00'	D= 3° 52' 16.8"	Ls= 225.00'	Ls= 200.00'	D= 12° 43' 56.6"
LT= 152.05'	L= 617.84'	LT= 150.05'	LT= 133.66'	L= 196.01'
ST= 75.04'	T= 313.49'	ST= 75.04'	ST= 66.98'	T= 99.58'
	R= 1,480.00'			R= 450.00'
	V= 65mph			V= 40mph
	SE= 0.08			SE= 0.08

(255) HOWELL, BRENDA J
(256) HOWELL, DAVID L
(257) LOCKAMON, DONALD R JR
LOCKAMON, SANDRA C
(258) BULLOCK, RUSSELL GENE SR
BULLOCK, ANNETTE KAY HARTMAN
(259) BULLOCK, RUSSELL GENE SR
BULLOCK, ANNETTE KAY HARTMAN
(260) MCLEMORE, ANTHONY JOSEPH
MCLEMORE, JULIE
(261) LYMAN, MICHAEL SR
LYMAN, HILDA
(262) GREM, JAMES ERNEST
GREM, OLETA HANNER
(263) ALEXANDER, RANDY
(264) ALEXANDER, RANDY
(265) ALEXANDER, RANDY
(266) COATS, J J
COATS, ELAINE E
(267) BROWN, EDITH HOPE JOHNSON
MASSEY, BELINDA A JOHNSON
(268) ALEXANDER, RANDY
(269) COATS, ELAINE E
(270) LEE, EUNICE R
(275) RHODES, WILLIAM THOMAS
RHODES, LINWOOD WADE
(276) ZAPATA, WALFIDO
(277) HATCHER, DURWOOD LEE
HATCHER, ANNE S
(278) CUNNINGHAM, BRENDA J
CUNNINGHAM, MARK R
(279) JESSUP, MEREDITHE
JESSUP, BERNADETTE ELAINE
(281) STORE MASTER FUNDING IILLC
(282) STORE MASTER FUNDING IILLC
(283) MURPHY, MAE ELLEN G HEIRS
(1729) YARBROUGH, DENNIS RALPH

★ PROPOSED SIGNAL

SEE ROLL 25 FOR PROFILE
SEE ROLL 40 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.400000
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35071.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER

ROLL 6 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

-L-

PI Sta 1172+16.96	PIs Sta 1208+46.05	PI Sta 1223+55.54	PIs Sta 1237+95.82
Δ = 7°58'44.2" (LT)	Gs= 1°47'13.0"	Δ = 37°05'04.9" (RT)	Gs= 1°47'13.0"
D= 0°05'43.6"	Ls= 315.00'	D= 1°08'04.5"	Ls= 315.00'
L= 2,017.36'	LT= 210.01'	L= 2,739.78'	LT= 210.01'
T= 1,036.28'	ST= 105.01'	T= 1,404.56'	ST= 105.01'
R= 60,000.00'		R= 5,050.00'	
V= 75mph		V= 75mph	
SE= NC		SE= 0.05	

MATCHLINE -L- STA. 1172+00 ROLL 5

MATCHLINE -Y27- STA. 44+00 ROLL 16

MATCHLINE -L- STA. 1228+00 ROLL 7

CORRIDOR LIMITS

ADAMS, JEANNETTE R HEIRS

EDGE OF AUBURN LLC

BURNETTE FARMS LLC

BURNETTE FOREST LLC

AUBURN ASSOCIATES

PROPOSED OVERHEAD FACILITIES

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

-Y27- PT Sta. 37+91.89

-L- PT Sta. 1182+53.04

-L- POT Sta. 1204+09.01=
-Y27- POC Sta. 34+29.43
Δ=63°12'45.3"

-Y27- PC Sta. 41+69.05

-Y27- POT STA 41+55.33=
-Y27RPA- POT Sta. 30+20.34

-Y27- POT STA 41+23.24=
-Y27LPA- POT Sta. 02+86.27

-Y27LPA- PT Sta. 21+14.46

-Y27LPA- CS Sta. 18+64.46

-Y27LPA- SC Sta. 14+61.21

-L- POT Sta. 1205+10.03=
-Y27LPA- TS Sta. 10+00.00
71.00 LT

-Y27LPA- TS Sta. 12+11.21

-L- SC Sta. 1209+51.03

-L- ST Sta. 1206+36.03

-Y27LPD- SC Sta. 12+50.00

-L- POT Sta. 1204+36.04=
-Y27LPD- TS Sta. 11+00.00
71.00 RT

-Y27LPD- ST Sta. 10+84.39

-Y27- POC Sta. 30+31.95=
-Y27LPD- POT Sta. 23+28.35

-Y27- POC Sta. 30+10.07=
-Y27RPD- POT Sta. 32+96.62

-Y27- PCC Sta. 22+57.65

-Y27- POC Sta. 20+46.93=
-Y27A- POT Sta. 10+00.00

-Y27- PC Sta. 11+57.72

-Y27- POT Sta. 10+00.00

-Y27A- PC Sta. 12+91.05

-Y27A- PRC Sta. 17+13.46

-Y27RPA- SC Sta. 26+10.88

-Y27RPA- PT Sta. 28+67.04

-Y27RPA- SRS Sta. 24+10.88

-Y27RPA- CS Sta. 21+85.88

-Y27RPA- SC Sta. 18+25.00

-Y27RPA- TS Sta. 16+00.00

-L- POC Sta. 1224+50.00=
-Y27RPA- POT Sta. 10+00.00
71.00 LT

-Y27RPD- SC Sta. 12+25.00

-Y27RPD- CS Sta. 21+86.50

-Y27RPD- SRS Sta. 24+11.50

-Y27RPD- SC Sta. 26+11.50

-Y27RPD- PT Sta. 30+56.83

-L- POC Sta. 1223+79.78=
-Y27RPD- ST Sta. 10+00.00
71.00 RT

-Y27A- PT Sta. 28+90.31

-Y27A- POT Sta. 31+30.38

A

D

-Y27-		
PI Sta 17+09.37	PI Sta 30+63.10	PI Sta 44+36.91
Δ = 10°57'36.8" (LT)	Δ = 43°05'27.5" (LT)	Δ = 5°40'45.9" (RT)
D = 0°59'47.2"	D = 2°48'31.0"	D = 1°03'39.7"
L = 1,099.93'	L = 1,534.24'	L = 535.27'
T = 551.65'	T = 805.45'	T = 267.86'
R = 5,750.00'	R = 2,040.00'	R = 5,400.00'
V= 50mph	V= 50mph	V= 50mph
SE= 0.02	SE= 0.05	SE= 0.03

-Y27A-	
PI Sta 15+36.72	PI Sta 24+24.35
Δ = 7°01'51.5" (LT)	Δ = 80°20'28.3" (RT)
D = 16°22'12.8"	D = 6°51'42.4"
L = 428.41'	L = 1,170.25'
T = 245.67'	T = 704.90'
R = 350.00'	R = 835.00'
V= 35mph	V= 50mph
SE= 0.08	SE= 0.08

250	DUKE, WILBUR P JR DUKE, CYNTHIA M
251	MOORE, CAROLYN
252	JERNIGAN, TRACY
253	WATKINS, JOSEPH
254	STALLINGS, LESTER R

-Y27LPA-		
PIs Sta 13+80.53	PI Sta 17+37.53	PIs Sta 19+50.21
Gs = 31°08'20.4"	Δ = 100°27'18.17" (LT)	Gs = 31°08'20.4"
Ls = 250.00'	D = 24°54'40.4"	Ls = 250.00'
LT = 169.32'	L = 403.25'	LT = 169.32'
ST = 85.75'	T = 276.32'	ST = 85.75'
	R = 230.00'	
	V= 30mph	
	SE= 0.08	

-Y27LPD-		
PIs Sta 11+69.32	PI Sta 19+92.51	PIs Sta 19+20.14
Gs= 31°08'20.4"	Δ = 145°34'41.01" (RT)	Gs= 31°08'20.4"
Ls= 250.00'	D= 24°54'40.4"	Ls= 250.00'
LT= 169.32'	L= 584.39'	LT= 169.32'
ST= 85.75'	T= 742.51'	ST= 85.75'
	R= 230.00'	
	V= 30mph	
	SE= 0.08	

-Y27RPA-			
PIs Sta 17+50.05	PI Sta 20+06.34	PIs Sta 22+60.92	PIs Sta 25+44.34
Gs = 4°21'18.9"	Δ = 13°58'15.6" (RT)	Gs = 4°21'18.9"	Gs = 1°38'22.0"
Ls = 225.00'	D = 3°52'16.8"	Ls = 225.00'	Ls = 200.00'
LT = 150.05'	L = 360.88'	LT = 150.05'	LT = 133.46'
ST = 75.04'	T = 181.34'	ST = 75.04'	ST = 66.78'
	R = 1,480.00'		
	V= 65mph		
	SE= 0.08		

PIs Sta 27+40.22			
Δ = 19°34'07.8" (LT)			
D = 7°38'22.0"			
L = 256.16'			
T = 129.34'			
R = 750.00'			
V= 40mph			
SE= 0.07			

-Y27RPD-			
PIs Sta 11+32.90	PI Sta 17+23.40	PIs Sta 22+61.54	PIs Sta 25+45.09
Gs = 1°17'38.0"	Δ = 37°13'21.8" (LT)	Gs = 4°21'18.9"	Gs = 11°01'06.3"
Gs = 4°21'21.4"	D = 3°52'16.8"	Ls = 225.00'	Ls = 200.00'
Ls = 225.00'	L = 961.50'	LT = 150.05'	LT = 133.59'
LT = 113.98'	T = 498.40'	ST = 75.04'	ST = 66.90'
ST = 92.27'	R = 1,480.00'		
	V= 65mph		
	SE= 0.08		

PIs Sta 28+48.85			
Δ = 49°04'06.4" (RT)			
D = 11°01'06.3"			
L = 445.33'			
T = 237.16'			
R = 520.00'			
V= 40mph			
SE= 0.08			

ROCK QUARRY RD.
4,500
12,100
2,600
3,500
400
3,800
COMPLETE 540
23,500
44,700
22,500
38,700
COMPLETE 540
500
1,500
3,700
7,200
5,700
13,500
ROCK QUARRY RD.
2016 ADT
2040 ADT

★ PROPOSED SIGNAL

SEE ROLL 26 FOR PROFILE | SEE ROLL 41 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35511.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 7 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

246 LONG BRANCH FARM LLC
247 GALLOWAY, STEPHEN F
GALLOWAY, JAMIE M
248 SKINNER, MICHAEL R
SKINNER, TRACEY L
249 BAUCOM, JOHN R III
BAUCOM, CYNTHIA L

MATCHLINE
-L- STA. 1228+00
ROLL 6

MATCHLINE
-L- STA. 1283+00
ROLL 8

HODGE, KAY B

RALEIGH

PROPOSED RANDLEIGH FARMS

WAKE COUNTY OF RALEIGH CITY OF

BURNETTE FOREST LLC

UNION B&T CO

FRANCIS, LAURA S

LONG BRANCH FARM LLC

BANK OF HAMPTON ROADS THE

ECKSTEIN, RONALD W
ECKSTEIN, JOYCE C

CHIPOURAS, GEORGE L

TERRE CAROLINE LLC

BARBOUR, JERRY W. JR

WAGNER, LARRY D
WAGNER, NANCY W

RILEY, NORMA
LUCAS CASEY

KOVAR, JEROME J
KOVAR, CHERYL L

THE PRESERVE AT LONG BRANCH FARMS

CORRIDOR LIMITS

FUTURE GREENWAY

PROPOSED OVERHEAD FACILITIES

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

-L- TS Sta. 1243+41.83
-L- SC Sta. 1246+56.83
-L- CS Sta. 1261+61.97
-L- ST Sta. 1264+76.97
-L- CS Sta. 1236+90.81
-L- ST Sta. 1240+05.81
-L- POT Sta. 1276+06.27 = -Y28- POC Sta. 33+47.03 Δ=6°15'45.3"
-Y28- PC Sta. 21+77.87
-Y28- PT Sta. 24+79.79
-Y28- PC Sta. 28+81.75
-Y28- PCC Sta. 37+98.76
-Y28- PT Sta. 42+52.22
END BRIDGE -L- STA. 1276+63.84
BEGIN BRIDGE -L- STA. 1279+58.01

-L-

PI Sta 1208+46.05	PI Sta 1223+55.54	PI Sta 1237+95.82	PI Sta 1245+51.84	PI Sta 1254+15.02	PI Sta 1262+66.98
Gs= 1°47'13.0"	Δ = 31°05'04.9" (RT)	Gs= 1°47'13.0"	Gs= 1°47'13.0"	Δ = 11°04'36.8" (LT)	Gs= 1°47'13.0"
Ls= 315.00'	D= 1°08'04.5"	Ls= 315.00'	Ls= 315.00'	D= 1°08'04.5"	Ls= 315.00'
LT= 210.01'	L= 2,739.78'	LT= 210.01'	LT= 210.01'	L= 1,505.14'	LT= 210.01'
ST= 105.01'	T= 1,401.45'	ST= 105.01'	ST= 105.01'	T= 758.19'	ST= 105.01'
	R= 5,050.00'			R= 5,050.00'	
	V= 75mph			V= 75mph	
	SE= 0.05			SE= 0.05	

-Y28-

PI Sta 23+29.34	PI Sta 33+53.93	PI Sta 40+39.57
Δ = 11°31'57.2" (RT)	Δ = 33°40'47.2" (LT)	Δ = 48°32'52.0" (LT)
D= 3°49'11.0"	D= 3°40'22.2"	D= 10°43'46.4"
L= 301.92'	L= 917.01'	L= 452.47'
T= 151.47'	T= 472.18'	T= 240.82'
R= 1,500.00'	R= 1,560.00'	R= 534.00'
V= Exist	V= Exist	V= Exist
SE= Exist	SE= Exist	SE= Exist

SEE ROLL 27 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401050
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 8 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 8 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

-L-
PIs Sta 1298+04.97
Gs= 1°47' 13.0"
Ls= 315.00'
LT= 210.01'
ST= 105.01'

PIs Sta 1316+72.92
Δ= 38° 29' 18.4" (LT)
D= 1°08' 04.5"
L= 3,392.34'
T= 1762.97'
R= 5,050.00'
V= 75mph
SE= 0.05

PIs Sta 1334+22.31
Gs= 1° 02' 32.0"
Ls= 360.00'
LT= 240.02'
ST= 120.01'

-Y28A-
PI Sta 23+57.99
Δ= 80° 50' 17.5" (LT)
D= 38° 11' 49.9"
L= 211.63'
T= 127.75'
R= 150.00'
V= 20mph
SE= NC

PI Sta 25+75.10
Δ= 45° 01' 32.9" (RT)
D= 32° 44' 25.6"
L= 137.52'
T= 72.53'
R= 175.00'
V= 20mph
SE= NC

PROPOSED RANDLEIGH FARMS

DUKE ENERGY TRANSMISSION LINE

CORRIDOR LIMITS

WAKE COUNTY OF RALEIGH CITY OF

FUTURE GREENWAY

NEUSE RIVER

RELOCATED FUTURE GREENWAY

LONG BRANCH FARM LLC

-L- TS Sta. 1295+94.96

-L- SC Sta. 1299+09.96

PROPOSED 5@14'x12' FOR GREENWAY CROSSING AND CITY ACCESS POINT

PROPOSED 366'x1' RCBC

MATCHLINE -L- STA. 1283+00 ROLL 7

MATCHLINE -L- STA. 1315+00 ROLL 9

-Y28A- PT Sta. 24+41.88

-Y28A- PC Sta. 25+02.56

-Y28A- PT Sta. 26+40.09

-Y28A- POT Sta. 27+05.03

S 22° 58' 56" E 356.15'

RELOCATED FUTURE GREENWAY

BANK OF HAMPTON ROADS THE

WAKE RECLAMATION LLC

-Y28B- POT Sta. 13+12.01

-Y28B- POT Sta. 10+00.00

*MATION LLC

DUKE ENERGY TRANSMISSION LINE

NEUSE RIVER TRAIL

RALEIGH

CITY/COUNTY LAW ENFORCEMENT TRAINING CENTER

SEE ROLL 28 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35371.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
1616 Downtowner Loop West, Suite 300
Mandan, ND 58554-4831
(701) 751-8188
NC FIRM# P-0339

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35371.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
1616 Downtowner Loop West, Suite 300
Mandan, ND 58554-4831
(701) 751-8188
NC FIRM# P-0339

ROLL 9 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 9 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

-Y29- POT Sta. 10+00.00

SR 2355 AUBURN KNIGHTDALE RD

15+00 -Y29-

-L- STA. 1324+81.28

440' TAPER

CORRIDOR LIMITS

JEFFERYS, GRADY B
JEFFERYS, THELMA M

-Y29- POT Sta. 16+48.82
-Y29A- POT Sta. 10+00.00
S 47° 39' 31.6" E
-Y29A- PC Sta. 10+20.71

-Y29- PC Sta. 18+52.91

PROPOSED OVERHEAD FACILITIES

20+00 -Y29-

-Y29A- PT Sta. 12+00.54

SEALEY, MICHAEL DAVID

-Y29A- PC Sta. 13+76.77

WAKE COUNTY OF RALEIGH CITY OF

NEUSE RIVER TRAIL

-Y29A- PT Sta. 16+33.18

WAKE COUNTY

-Y29A- POT Sta. 17+68.21

-Y28A- POT Sta. 10+00.00

CORRIDOR LIMITS

FUTURE GREENWAY

-Y29- PT Sta. 29+47.54

FUTURE CLIFTON RD GREENWAY

-Y29- POT Sta. 26+16.59=
-Y29RPA- POT Sta. 30+08.72

-Y28A- PC Sta. 12+51.81

-Y28A- PRC Sta. 14+31.54

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

BILLY ADAMS FARMS INC

-Y29- POT Sta. 26+19.59=
-Y29LPA- POT Sta. 21+03.14

PROPOSED OVERHEAD FACILITIES

-Y28A- PT Sta. 15+46.86

-L- POT Sta. 1338+72.52=
-Y29LPA- TS Sta. 1090.00
1080 LT

-Y29LPA-
SC Sta. 12+50.00

-L- CS Sta. 1333+02.30

-Y28A- PT Sta. 17+46.64

-Y28A- PC Sta. 22+30.24
-Y28A- PT Sta. 19+08.15

-L- POT Sta. 1337+67.43=
-Y29- POT Sta. 32+10.75
Δ=8° 20' 14.8"

-Y29- PC Sta. 35+24.05

-Y29- PT Sta. 37+09.67

-Y29- POT Sta. 38+51.06=
-Y29LPD- POT Sta. 20+47.32

-Y29- POT Sta. 38+80.40=
-Y29RPD- POT Sta. 29+37.81

ATKINS, KIMBERLY P
GOULD, KELLY P

MATCHLINE
-Y29- STA. 40+75
ROLL 17

BAKER, TED PRESTON
BAKER, GERALDINE G

-Y29LPA-
CS Sta. 17+26.06

-Y29LPA-
ST Sta. 19+76.26

SANOK, JACOB J
SANOK, MARYLU

WEST, NANCY C

-Y29RPA- PT Sta. 28+24.61

GLOVER, WALLACE EDWARD JR
-Y29RPA- SC Sta. 26+08.08

-Y29RPA- SRS Sta. 24+08.08

-Y29RPA- CS Sta. 22+08.08

-Y29RPA- SC Sta. 16+00.00

-Y29RPA- TS Sta. 14+00.00

-L- POT Sta. 1356+37.00=
-Y29RPD- POT Sta. 10+00.00
71.00 LT

PROPOSED ø72" RCP

PROPOSED 5@10'x8' RCBC

-L- POT Sta. 1339+14.19=
-Y29LPC- TS Sta. 10+00.00
71.00 RT

BURCHETTE, Z BARBARA JR

-Y29LPC-
SC Sta. 8+50.00

BURCHETTE, Z BARBARA JR

-L- POT Sta. 1356+82.20=
-Y29RPD- ST Sta. 10+00.00
71.00 RT

-Y29RPD- SC Sta. 12+00.00

RAYNOR, BOBBY C
RAYNOR, MARGARET F

-Y29RPD- CS Sta. 21+82.82

-Y29RPD- SRS Sta. 23+82.82

DAVIS, KAREN L
DAVIS, JAMES RAY

-Y29RPD- SC Sta. 25+82.82

-Y29RPD- PT Sta. 27+84.07

MATCHLINE
-L- STA. 1365+00
ROLL 10

TWO PARCELS WERE LABELED 238

RAYNOR, BOBBY C
RAYNOR, MARGARET F

238	WEST, NANCY C GLOVER (BY MARRIAGE)
239	GLOVER, WALLACE EDWARD JR
240	ROGERS, ANGELIA R LONITA ROGERS & ROGERS, ANGELIA R LONITA ROGERS &
241	EVANS, CINDY L EVANS, CHRIS
242	BURCHETTE, BARBARA ANN GLOVER
244	KURNEY, RONALD
245	SEALEY, MICHEAL DAVID HILDEBRAND, NANCY FAYE
1797	MOORE, ROSA L
1798	GLOVER, BETTY
1799	EVERHART, REX M EVERHART, CAROL S
1800	BURCHETTE, BARBARA ANN GLOVER

-L-
Pis Sta 1298+04.91
Gs= 1°47' 13.0"
Ls= 315.00'
LT= 210.01'
ST= 105.01'

Pis Sta 1316+72.92
Δ= 38° 29' 18.4" (LT)
D= 1°08' 04.5"
L= 3,392.34'
T= 1762.29'
R= 5,050.00'
V= 75mph
SE= 0.05

Pis Sta 1334+22.31
Gs= 2°02' 32.0"
Ls= 360.00'
LT= 240.02'
ST= 120.01'

-Y29-
Pis Sta 22+10.26
Δ= 33° 09' 56.8" (RT)
D= 4°46' 28.7"
L= 694.62'
T= 357.35'
R= 1,200.00'
V= 50mph
SE= 0.06

Pis Sta 35+17.25
Δ= 12° 45' 56.7" (LT)
D= 6°52' 41.7"
L= 185.62'
T= 93.18'
R= 833.00'
V= 50mph
SE= 0.06

Pis Sta 50+16.14
Δ= 16° 12' 10.4" (LT)
D= 5°11' 57.0"
L= 309.66'
T= 155.81'
R= 1,095.00'
V= 50mph
SE= 0.06

-Y29RPD-
Pis Sta 11+33.35
Gs= 2° 37' 41.7"
Ls= 200.00'
LT= 133.35'
ST= 66.68'

Pis Sta 16+99.91
Δ= 25° 49' 51.8" (LT)
D= 2° 37' 41.7"
L= 986.82'
T= 499.91'
R= 2,180.00'
V= 65mph
SE= 0.01

Pis Sta 23+49.51
Gs= 2° 37' 41.7"
Ls= 200.00'
LT= 133.35'
ST= 66.68'

Pis Sta 25+16.24
Gs= 6° 11' 38.9"
Ls= 200.00'
LT= 133.42'
ST= 66.74'

Pis Sta 26+83.84
Δ= 12° 27' 54.4" (RT)
D= 6° 11' 38.9"
L= 201.24'
T= 101.02'
R= 925.00'
V= 50mph
SE= 0.08

-Y29LPA-
Pis Sta 11+69.32
Gs= 3° 08' 20.4"
Ls= 250.00'
LT= 169.32'
ST= 85.75'

Pis Sta 16+31.31
Δ= 118° 35' 34.3" (LT)
D= 24° 54' 40.4"
L= 476.06'
T= 387.17'
R= 230.00'
V= 30mph
SE= 0.08

Pis Sta 18+11.81
Gs= 3° 08' 20.4"
Ls= 250.00'
LT= 169.32'
ST= 85.75'

-Y29RPA-
Pis Sta 15+33.37
Gs= 3° 52' 16.8"
Ls= 200.00'
LT= 133.37'
ST= 66.70'

Pis Sta 19+08.39
Δ= 23° 32' 27.5" (RT)
D= 3° 52' 16.8"
L= 608.08'
T= 308.39'
R= 1,480.00'
V= 65mph
SE= 0.07

Pis Sta 22+74.78
Gs= 3° 52' 16.8"
Ls= 200.00'
LT= 133.37'
ST= 66.70'

Pis Sta 25+41.70
Gs= 11° 27' 33.0"
Ls= 200.00'
LT= 133.61'
ST= 66.92'

Pis Sta 11+69.32
Gs= 3° 08' 20.4"
Ls= 250.00'
LT= 169.32'
ST= 85.75'

Pis Sta 15+51.34
Δ= 105° 17' 37.2" (RT)
D= 24° 54' 40.4"
L= 422.68'
T= 301.34'
R= 230.00'
V= 30mph
SE= 0.08

Pis Sta 17+58.43
Gs= 3° 08' 20.4"
Ls= 250.00'
LT= 169.32'
ST= 85.75'

-Y28A-
Pis Sta 13+45.48
Δ= 41° 20' 03.9" (LT)
D= 22° 55' 05.9"
L= 180.36'
T= 94.30'
R= 250.00'
V= 20mph
SE= NC

Pis Sta 14+99.28
Δ= 26° 52' 46.1" (RT)
D= 22° 55' 05.9"
L= 117.28'
T= 59.74'
R= 250.00'
V= 20mph
SE= NC

Pis Sta 18+51.08
Δ= 92° 32' 36.3" (RT)
D= 57° 17' 44.8"
L= 161.52'
T= 104.54'
R= 100.00'
V= 20mph
SE= NC

-Y29A-
Pis Sta 11+32.34
Δ= 85° 51' 45.9" (LT)
D= 41° 44' 47.3"
L= 179.83'
T= 111.63'
R= 120.00'
V= 20mph
SE= 0.04

Pis Sta 15+09.55
Δ= 36° 43' 42.1" (RT)
D= 14° 19' 26.2"
L= 256.41'
T= 132.78'
R= 400.00'
V= 35mph
SE= 0.04

AUBURN KNIGHTDALE RD.

	I700 6,900		
I00 2,000		IJ00 4,800	COMPLETE 540 23,600 46,I00
23,500 44,700 COMPLETE 540	IJ00 3,700	200 2,300	
	I800 6,500		

AUBURN KNIGHTDALE RD.

2016 AOT
2040 AOT

★ PROPOSED SIGNAL

SEE ROLL 29 FOR PROFILE | SEE ROLL 41 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(3)
WBS NO. 35511.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

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WAKE AND JOHNSTON COUNTIES
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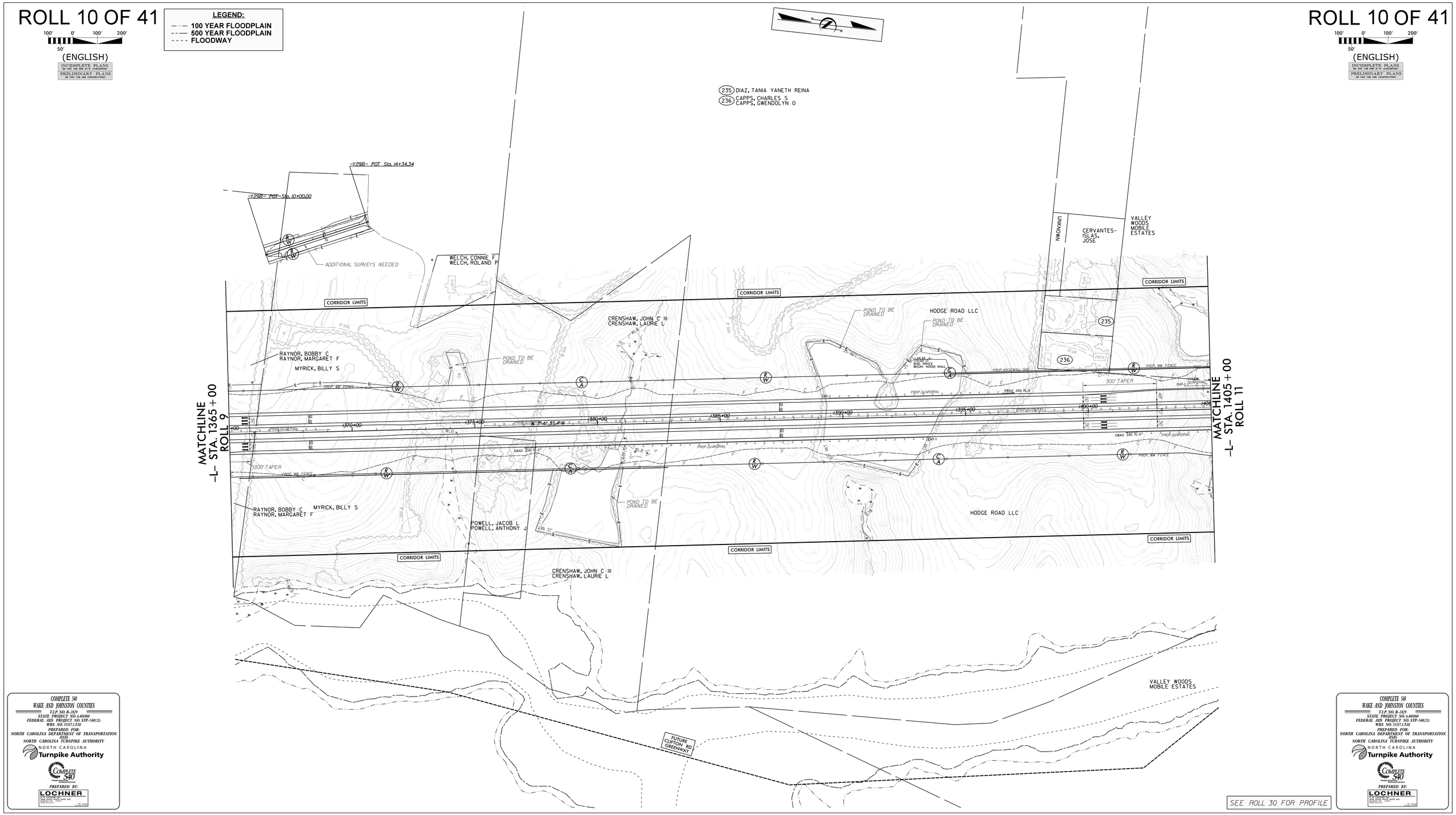
LOCHNER



COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 11 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

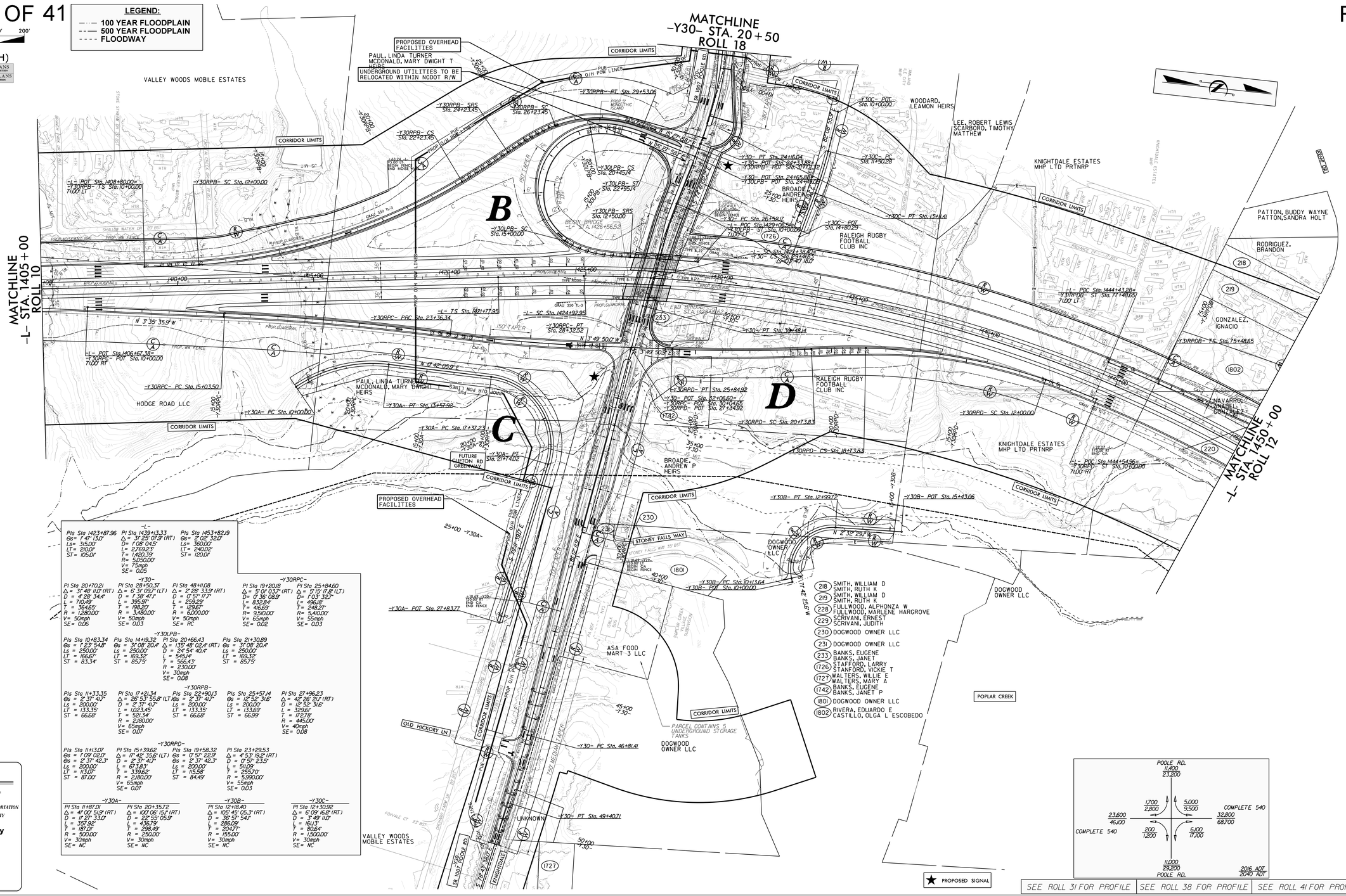
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 11 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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



-L-

PI Sta 1423+87.96	PI Sta 1439+13.33	PIs Sta 1453+82.19
Gs = 1°47'13.0"	Δ = 31°25'01.9" (RT)	Gs = 2°02'32.0"
Ls = 315.00'	D = 1°08'04.5"	Ls = 360.00'
LT = 210.01'	L = 2769.23'	LT = 240.02'
ST = 105.01'	T = 1,420.39'	ST = 120.01'
	R = 5,050.00'	
	V = 75mph	
	SE = 0.05	

-Y30-

PI Sta 20+70.21	PI Sta 28+50.37	PI Sta 48+11.08	PI Sta 19+20.18
Δ = 31°48'11.0" (RT)	Δ = 6°31'09.7" (LT)	Δ = 2°28'33.9" (RT)	Δ = 5°01'03.7" (RT)
D = 4°28'34.4"	D = 1°38'41.1"	D = 0°57'17.7"	D= 1°36'08.9"
L = 710.49'	L = 395.97'	L = 259.29'	L= 832.84'
T = 364.65'	T = 198.20'	T = 129.67'	T= 416.69'
R = 1,280.00'	R = 3,480.00'	R = 6,000.00'	R= 9,510.00'
V= 50mph	V= 50mph	V= 50mph	V= 65mph
SE= 0.06	SE= 0.03	SE= RC	SE= 0.02

-Y30RPC-

PI Sta 25+84.60
Δ = 5°15'17.8" (LT)
D= 1°03'32.7"
L= 496.68'
T= 248.27'
R= 5,410.00'
V= 55mph
SE= 0.03

-Y30LPB-

PI Sta 10+83.34	PIs Sta 14+19.32	PIs Sta 20+66.43	PIs Sta 21+30.89
Gs = 1°23'54.6"	Gs = 31°08'20.4"	Δ = 135°48'02.4" (RT)	Gs = 31°08'20.4"
Ls = 250.00'	Ls = 250.00'	D = 24°54'40.4"	Ls = 250.00'
LT = 166.67'	LT = 169.32'	L = 545.14'	LT = 169.32'
ST = 83.34'	ST = 85.75'	T = 566.43'	ST = 85.75'
		R = 230.00'	
		V= 30mph	
		SE= 0.08	

-Y30RPB-

PIs Sta 11+33.35	PI Sta 17+21.34	PIs Sta 22+90.13	PIs Sta 25+57.14	PI Sta 27+96.23
Gs = 2°37'41.7"	Δ = 26°53'55.8" (LT)	Gs = 2°37'41.7"	Gs = 12°52'31.6"	Δ = 42°26'01.1" (RT)
Ls = 200.00'	D = 2°37'41.7"	Ls = 200.00'	Ls = 200.00'	D = 12°52'31.6"
LT = 133.35'	L = 1023.45'	LT = 133.35'	LT = 133.69'	L = 1292.54'
ST = 66.68'	T = 520.34'	ST = 66.68'	ST = 66.99'	T = 1127.8'
	R = 2,180.00'			R = 445.00'
	V= 65mph			V= 40mph
	SE= 0.07			SE= 0.08

-Y30RPD-

PIs Sta 11+13.07	PI Sta 15+39.62	PIs Sta 19+58.32	PI Sta 23+29.53
Gs = 1°09'02.0"	Δ = 17°42'35.6" (LT)	Gs = 0°57'22.9"	Δ = 4°53'19.2" (RT)
Gs = 2°37'41.7"	D = 2°37'41.7"	Gs = 2°37'42.3"	D = 0°57'23.5"
Ls = 200.00'	L = 673.83'	Ls = 200.00'	L = 511.09'
LT = 113.09'	T = 339.62'	LT = 115.59'	T = 255.70'
ST = 87.00'	R = 2,180.00'	ST = 84.49'	R = 5,990.00'
	V= 65mph		V= 55mph
	SE= 0.07		SE= 0.03

-Y30A-

PI Sta 11+87.01	PI Sta 20+35.72	**-Y30B-**	**-Y30C-**
Δ = 41°00'51.9" (RT)	Δ = 100°06'15.1" (RT)	PI Sta 12+18.40	PI Sta 12+30.92
D = 11°27'33.0"	D = 22°55'05.9"	Δ = 105°45'05.3" (RT)	Δ = 6°09'16.8" (RT)
L = 357.92'	L = 436.79'	D = 36°57'54.4"	D = 3°49'11.0"
T = 187.01'	T = 298.49'	L = 286.05'	L = 161.13'
R = 500.00'	R = 250.00'	T = 204.77'	T = 80.64'
V= 30mph	V= 30mph	R = 155.00'	R = 1,500.00'
SE= NC	SE= NC	V= 30mph	V= 30mph
		SE= NC	SE= NC

218	SMITH, WILLIAM D SMITH, RUTH K
219	SMITH, WILLIAM D SMITH, RUTH K
228	FULLWOOD, ALPHONZA W FULLWOOD, MARLENE HARGROVE
229	SCRIVANI, ERNEST SCRIVANI, JUDITH
230	DOGWOOD OWNER LLC
231	DOGWOOD OWNER LLC
233	BANKS, EUGENE BANKS, JANET
1726	STAFFORD, LARRY STANFORD, VICKIE T
1727	WALTERS, WILLIE E WALTERS, MARY A
1742	BANKS, EUGENE BANKS, JANET P
1801	DOGWOOD OWNER LLC
1802	RIVERA, EDUARDO E CASTILLO, OLGA L ESCOBEDO

SEE ROLL 31 FOR PROFILE | SEE ROLL 38 FOR PROFILE | SEE ROLL 41 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
STIP NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35512.1.1A1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
RALEIGH, NORTH CAROLINA 27601
PH: (919)743-7300

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
STIP NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35512.1.1A1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
RALEIGH, NORTH CAROLINA 27601
PH: (919)743-7300

ROLL 12 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 12 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

-Y3IA-

PI Sta 13+52.40	PI Sta 17+89.61	PI Sta 25+99.96
Δ = 90° 53' 23.1" (LT)	Δ = 14° 41' 01.3" (LT)	Δ = 35° 28' 23.1" (LT)
D = 37° 12' 18.2"	D = 3° 49' 11.0"	D = 5° 33' 45.7"
L = 244.29'	L = 394.45'	L = 607.74'
T = 156.41'	T = 193.27'	T = 309.73'
R = 154.00'	R = 1,500.00'	R = 1,030.00'
V= 25mph	V= 25mph	V= 25mph
SE= 0.04	SE= 0.02	SE= 0.03

-Y3IRPB-

PI Sta 13+56.65	PI Sta 25+02.07	PI Sta 32+49.13	
Gs = 7° 38' 22.0"	Δ = 81° 46' 17.2" (RT)	Gs = 5° 15' 01.6"	
Ls = 320.00'	D = 4° 46' 28.7"	Ls = 220.00'	
LT = 213.53'	L = 1,712.62'	LT = 146.73'	
ST = 196.85'	T = 1,038.95'	ST = 73.39'	
	R = 1,200.00'		
	V= 60mph		
	SE= 0.08		

-Y3IRPC-

PI Sta 17+24.63	PI Sta 26+34.28	PI Sta 34+02.05
Gs = 4° 13' 36.3"	Δ = 57° 23' 13.0" (RT)	Gs = 4° 13' 36.3"
Ls = 225.00'	D = 3° 45' 25.6"	Ls = 225.00'
LT = 150.04'	L = 1,527.43'	LT = 150.04'
ST = 75.04'	T = 814.69'	ST = 75.04'
	R = 1,525.00'	
	V= 65mph	
	SE= 0.08	

-Y3ILPD-

PI Sta 11+00.01	PI Sta 15+73.30	PI Sta 19+19.86	PI Sta 23+10.04	PI Sta 16+92.41	PI Sta 22+31.81	PI Sta 27+43.70
Gs = 1° 28' 48.0"	Gs = 49° 02' 15.8"	Δ = 168° 12' 09.3" (RT)	Gs = 49° 02' 15.8"	Gs = 2° 30' 01.4"	Δ = 40° 35' 15.3" (RT)	Gs = 5° 30' 01.4"
Ls = 100.00'	Ls = 393.70'	D = 0° 54' 40.4"	Ls = 393.70'	Ls = 240.00'	D= 4° 35' 01.2"	Ls= 240.00'
LT = 200.01'	LT = 273.30'	L = 675.21'	LT = 273.30'	LT= 160.08'	L= 891.30'	LT= 160.08'
ST = 100.01'	ST = 141.14'	T = 2,225.16'	ST = 141.14'	ST= 80.01'	T= 465.54'	ST= 80.01'
		R = 230.00'			R= 1,250.00'	
		V= 30mph			V= 60mph	
		SE= 0.08			SE= 0.08	

-Y3IRPDB-

PI Sta 17+68.02	PI Sta 19+67.85	PI Sta 21+07.57	PI Sta 46+39.21	PI Sta 59+82.19	PI Sta 16+73.21
Gs = 2° 34' 41.9"	Δ = 44° 10' 11.9" (RT)	Gs = 2° 28' 41.8"	Δ = 17° 36' 41.8" (LT)	Gs = 2° 25' 41.8"	Gs = 1° 01' 01.8"
Ls= 252.00'	D= 2° 02' 46.6"	Ls= 198.00'	D= 2° 28' 10.7"	Ls= 198.00'	Ls= 200.00'
LT= 168.02'	L= 2,315.61'	LT= 132.01'	L= 3,142.62'	LT= 132.01'	LT= 133.34'
ST= 84.02'	T= 1,215.85'	ST= 66.01'	T= 1,865.71'	ST= 66.01'	ST= 66.67'
	R= 2,800.00'		R= 2,320.00'		
	V= 65mph		V= 60mph		
	SE= 0.05		SE= 0.05		

-Y3IRPD-

PI Sta 22+31.81	PI Sta 27+43.70	PI Sta 16+92.41	PI Sta 22+31.81	PI Sta 27+43.70
Gs= 40° 35' 15.3" (RT)	Gs= 5° 30' 01.4"	Gs= 2° 30' 01.4"	Gs= 40° 35' 15.3" (RT)	Gs= 5° 30' 01.4"
D= 4° 35' 01.2"	Ls= 240.00'	Ls= 240.00'	D= 4° 35' 01.2"	Ls= 240.00'
L= 891.30'	LT= 160.08'	LT= 160.08'	L= 891.30'	LT= 160.08'
T= 465.54'	ST= 80.01'	ST= 80.01'	T= 465.54'	ST= 80.01'
R= 1,250.00'			R= 1,250.00'	
V= 60mph			V= 60mph	
SE= 0.08			SE= 0.08	

-Y3IRPDB-

PI Sta 17+68.02	PI Sta 19+67.85	PI Sta 21+07.57	PI Sta 46+39.21	PI Sta 59+82.19	PI Sta 16+73.21
Gs= 2° 34' 41.9"	Δ = 44° 10' 11.9" (RT)	Gs= 2° 28' 41.8"	Δ = 17° 36' 41.8" (LT)	Gs= 2° 25' 41.8"	Gs= 1° 01' 01.8"
Ls= 252.00'	D= 2° 02' 46.6"	Ls= 198.00'	D= 2° 28' 10.7"	Ls= 198.00'	Ls= 200.00'
LT= 168.02'	L= 2,315.61'	LT= 132.01'	L= 3,142.62'	LT= 132.01'	LT= 133.34'
ST= 84.02'	T= 1,215.85'	ST= 66.01'	T= 1,865.71'	ST= 66.01'	ST= 66.67'
	R= 2,800.00'		R= 2,320.00'		
	V= 65mph		V= 60mph		
	SE= 0.05		SE= 0.05		

-Y3IRPB-

PI Sta 11+33.34	PI Sta 13+32.24	PI Sta 15+31.02	PI Sta 24+02.59	PI Sta 30+58.50	PI Sta 36+43.12	PI Sta 39+36.03	PI Sta 43+05.07	PI Sta 50+69.02	PI Sta 55+65.23
Gs = 1° 38' 13.3"	Δ = 41° 39' 29.2" (RT)	Gs = 1° 38' 13.3"	Gs = 3° 5'2" 37.8"	Δ = 48° 16' 19.8" (LT)	Gs = 3° 5'2" 37.8"	Gs = 3° 5'2" 37.8"	Δ = 26° 09' 54.3" (LT)	Δ = 39° 50' 20.2" (LT)	Gs = 4° 34' 13.0"
Ls = 200.00'	D = 1° 38' 13.3"	Ls = 200.00'	Ls = 180.00'	D = 4° 18' 28.6"	Ls = 180.00'	Ls = 180.00'	D = 4° 18' 28.6"	D = 4° 27' 31.7"	Ls = 205.00'
LT = 133.34'	L = 264.15'	LT = 133.34'	LT = 120.03'	L = 1,201.54'	LT = 120.03'	LT = 120.03'	L = 607.37'	L = 693.49'	LT = 136.71'
ST = 66.67'	T = 132.24'	ST = 66.67'	ST = 60.03'	T = 599.94'	ST = 60.03'	ST = 60.03'	T = 309.07'	T = 465.56'	ST = 68.37'
	R = 3,500.00'			R = 1,330.00'			R = 1,330.00'	R = 1,285.00'**	
	V= 65mph			V= 60mph			V= 60mph	V= 55mph	
	SE= 0.05			SE= 0.06			SE= Exist.	SE= 0.06	

** DESIGN EXCEPTION MAY BE REQUIRED

168	CUNNINGHAM, THEODORE A
169	PARKER, CHARLES C SR
172	SALMON, DAVID S SALMON, NANCY E
181	WALL, DONALD WAYNE SR
182	WALL, DONALD WAYNE SR
183	WALL, DONALD WAYNE SR
184	WALL, DONALD WAYNE SR
185	NEWBERN, LLOYD R
186	WALL, CHAD DOUGLAS WALL, JESSICA STUBBS
187	WALL, BETTY P TRUSTEE POOLE, DEBRA W TRUSTEE
188	HALL, LINDA WALL TRUSTEE OF THE LINDA WALL HALL FAMILY TRUST
204	NC DEPARTMENT OF TRANSPORTATION
205	NC DEPARTMENT OF TRANSPORTATION
220	GONZALEZ, FRANCISCO N GONZALEZ, ARITINA BARCENAS
221	RAY JOHNSON INVESTMENTS LLC
222	ANGELINA, FRANCISCO
223	NC DEPARTMENT OF TRANSPORTATION
224	ZIMMERMAN, SHAYNE PHILANA ZIMMERMAN, HELEN M
225	NC DEPARTMENT OF TRANSPORTATION
226	SMITH, ALISIA P POOLE, EDWARD JOSEPH
1722	NC DEPARTMENT OF TRANSPORTATION
1723	GOWER, JERRY L GOWER, JO ANN
1802	RIVERA, EDUARDO E CASTILLO, OLGA L ESCOBEDO
1805	FORD, ERNEST L JR FORD, BRENDA D
1812	NC DEPARTMENT OF TRANSPORTATION

-L- MATCHLINE -Y3I- STA. 40+00 ROLL 19

-L- MATCHLINE STA. 1450+00 -Y3I- ROLL 11

-L- MATCHLINE -Y3I- STA. 75+00 ROLL 20

-L- MATCHLINE STA. 1500+00 -Y3I- ROLL 13

RICHARDSON, JAMES EARL
RICHARDSON, GRAHAM EDWARD

WALL, DONALD WAYNE JR

GOWER, JO ANN
GOWER, JERRY

LILES, JOYCE C

RICHARDSON GRAHAM, GERTRUDE

NC DEPARTMENT OF TRANSPORATION

CORRIDOR LIMITS

WALL, VICKIE

WALL, CHAD DOUGLAS

OLD FAISON RD

WALL, BETTY P TRUSTEE POOLE, DEBRA W TRUSTEE

HALL, LINDA WALL TRUSTEE OF THE LINDA WALL HALL FAMILY TRUST

GOWER, JERRY L
GOWER, JO ANN W

CLIFTON RD

DUKE ENERGY TRANSMISSION LINE

LILES, GERALD W
LILES, JOYCE C

MURPHY, MARY LOU
MURPHY, SUSAN ELAINE

PROPOSED 265'x6' RCBC

PROPOSED 267'x6' RCBC

BELL, CHRISTOPHER GUY

SIMMONS, PATRICK H
SIMMONS, JODY W

MARSHALL MARY REBECCA

GONZALES, IGNACIO
ALCARAZ, VATER ALEJANDRA
MONICA
WYNN,

PERRY NELLIE MARIE

HERNANDEZ, ERNESTO
HERNANDEZ, SANTA

PROSPERO PERU, YOVANDA

EVANS, BRENDA R M

IRANDA BRIONES, HARTO TAURONDO

DOGWOOD OWNER LLC

FUTURE CLIFTON RD GREENWAY

BEGIN BRIDGE -L- STA. 14+74.35

END BRIDGE -L- STA. 14+98.11

END BRIDGE -L- STA. 14+98.11

BEGIN BRIDGE -L- STA. 35+67.07

END BRIDGE -L- STA. 51+86.04

END BRIDGE -L- STA. 147+46.69

BEGIN BRIDGE -L- STA. 147+40.85

-Y3IA- PT Sta. 28+91.97

-Y3IA- POT Sta. 10+00.00

-Y3IA- PT Sta. 19+80.76

-Y3IRPDB- POT Sta. 64+50.85

-Y3IA- PC Sta. 11+95.39

-Y3IA- PT Sta. 14+40.28

-Y3IA- PC Sta. 15+96.34

-Y3IA- PC Sta. 22+90.23

-Y3IRPB- CS Sta. 30+32.62

-Y3IRPB- ST Sta. 33+49.82

-Y3IRPDB- CS Sta. 59+18.33

-Y3IRPDB- ST Sta. 61+16.33

-Y3IRPB- SC Sta. 13+20.00

-Y3IRPB- SC Sta. 24+62.56

-Y3IRPB- POT Sta. 22+43.12=
-Y3IRPB- ST Sta. 10+00.00
58.40' RT
-Y3IRPB- TS Sta. 22+82.52

-Y3IRPD- ST Sta. 37+63.10

-Y3IRPD- TS Sta. 38+16.00

-Y3IRPD- CS Sta. 35+83.10

-Y3IRPD- SC Sta. 39+96.00

-Y3IRPD- CS Sta. 54+96.85

-Y3IRPD- ST Sta. 57+40.85
-Y3IRPD- POT Sta. 40+00.80
12.00' RT

-Y3IRPD- PCC Sta. 46+03.37

-Y3IRPD- ST Sta. 29+55.68

-Y3IRPD- CS Sta. 27+15.68

-Y3IRPD- SC Sta. 18+14.57

-Y3IRPC- SC Sta. 17+99.59

-Y3IRPC- TS Sta. 15+74.59

-Y3IRPC- CS Sta. 33+27.02

-Y3IRPC- ST Sta. 35+
58.40' RT

-Y3IRPC- POT Sta. 75+42.30=
-Y3IRPC- ST Sta. 35+
58.40' RT

-Y3IRPC- POT Sta. 10+00.00
65.53' RT

-L- POC Sta. 146+02.18=
-Y3IRPC- POT Sta. 10+00.00
65.53' RT

-L- POC Sta. 147+13.38=
-Y3I- POT Sta. 60+40.30
Δ=86° 19' 28.0"

-L- POC Sta. 147+59.17

-L- POC Sta. 147+60.42=
-Y3ILPD- TS Sta. 10+00.00
65.53' RT

-Y3I- POT Sta. 54+14.84=

-Y3I- POT Sta. 61+06.35=
-Y3ILPD- POC Sta. 11+58.98

-Y3I- POT Sta. 61+92.48=
-Y3ILPD- ST Sta. 27+62.51
58.41' LT

-Y3ILPD- CS Sta. 23+68.91

-Y3ILPD- SRS Sta. 13+00.00

-Y3ILPD- SD Sta. 16+93.70

-L- SC Sta. 146+92.18

-L- SRS Sta. 145+22.18

-L- CS Sta. 149+62.18

-L- POC Sta. 146+02.18=
-Y3IRPC- POT Sta. 10+00.00
65.53' RT

-L- POC Sta. 147+85.69=
-Y3IRPD- POT Sta. 10+00.00
65.53' RT

N 46° 39' 03.7" E

N 24° 09' 34.4" E

N 88° 39' 09.9" E

N 62° 22' 52.5" E

S 67° 14' 57.1" W

S 17° 09' 24.8" W

N 46° 39' 03.7" E

SEE ROLL 32 FOR PROFILE

SEE ROLL 41 FOR PROFILE

US 64/264	79,500 / 126,300
5,800 / 13,200	20,700 TRIANGLE EXPRESSWAY SE EXTENSION 54,200
32,800 / 68,700	63,900 / 113,700
TRIANGLE EXPRESSWAY SE EXTENSION 6,400 / 11,200	22,600 / 35,200
82,000 / 125,300 US 64/264	2016 ADT / 2040 ADT

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401189
FEDERAL AID PROJECT NO. STP-540(31)
WBS NO. 35511.1.FA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 13 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 13 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

MATCHLINE -L- STA. 1500+00 ROLL 12

-Y3IRPBD-
PI Sta 72+29.96
Δ = 0°26'58.4" (LT)
D = 0°13'45"
L = 196.16'
T = 98.08'
R = 25,000.00'
V = 65mph
SE = 0.02

END PROJECT R-2829
STA. 1527+30.65

-L- ST Sta. 1511+09.41

-L- CS Sta. 1507+15.71

-L- PCI Sta. 1512+55.03
-Y3IRPBD- PI Sta. 73+28.04
77.53 RT

-Y3IRPBD- PC Sta. 72+29.96

-L- SC Sta. 1548+10.31

-L- TS Sta. 1545+10.31

CORRIDOR LIMITS

DUKE ENERGY TRANSMISSION LINE

MINGO CREEK

CHURCHILL

SEE ROLL 33 FOR PROFILE

9	TIPPETT, KERRY JAY TIPPETT, CYNDI M
10	WOODLIEF, GARY L WOODLIEF, ROBIN C
16	MILLER, LINDA B
19	BATEMAN, ROY B SR BATEMAN, SHIRLEY A
24	VINES, BEVERLY I
27	LOPES, BRET EVANS
30	MATTHEWS, KARAN P
34	GRAY, BETTY H
39	BRANCH, WAYNE POWERS-BRANCH, ANITA
44	WOODARD, PAMELA R
48	DRUM, MARY L
53	RAMM, WANDA GRACE JONES
69	ALLEN, BARTLETT M II ALLEN, JANA E
70	AYERS, WILLIAM N AYERS, SANDRA P
71	HARRIS, JESSE R JR
72	HASNAIN, SAIYID HASNAIN, ABIDABANO
73	MASSEY, MARVIN W JR MASSEY, MARY F
74	CARMON, ALTON R CARMON, IRIS Y
75	CREAMER, ERIC T CREAMER, FRANCES J
76	ROLING, MARK ROLING, ADELA
77	MADEY, SCOTT W MADEY, ERIN F
78	PARKER, SYLVIA JEAN
79	DENTON, CHRISTOPHER W PARISI, ANNA VICTORIA
80	GEORGE, JAMES W GEORGE, GLORIA H
81	SAUNDERS DEVELOPMENT COMPANY LLC
82	GREEN, JEANETTE S
83	THERIAULT, DAVID M DENTON, JULIE M
84	MONDOK, DAVID P MONDOK, BRENDA
85	UHLAND, JOSHUA A UHLAND, HEATHER M
86	LEWIS, PRISCILLA M
87	KARANU, TABITHA
88	GALLAGHER, MARTIN JOHN GALLAGHER, JENNELL C
89	HOLT, MICKEY B HOLT, ERIN K
90	KHALID, LHOUCINE
91	COOK, SHARON TERRY
92	SANDERS, JAMES M SANDERS, JACOULYNN M
93	MCDOE, CHARLENE C
94	HATT, ANDREW HATT, BREA
95	JONES, GLORIA O
96	ROULHAC, COURTNEE A ROULHAC, DEMOND C
97	GRINNELL, DAVID L GRINNELL, MAREE L
98	HUNT, CHARLES B HEIRS
99	DORSEY, DARREN S DORSEY, KAREN N
100	UZOCHUKWU, ALEX N UZOCHUKWU, CHARITY O
101	MONETTE, CHEQUITA
102	KINYANJUI, ELIUD MBURU, PENINAH
103	BROOKS, MELANIE A BROOKS, SAMMY
104	ROSEHART, CHRISTOPHER T
105	TAW, SHILAR
106	MYERS, ERIC W. MYERS, DIANE M.
107	CHURCHILL COMMUNITY ASSN INC
108	COURMAN, RITA I
109	TIN, MAUNG KYI DAW, MAH TAH
110	CHILDERS, JOHN R CHILDERS, HEATHER M
111	HTOO, KAW EH, HSER
112	GAY, THA MOO, THA
113	WILLIAMS, SHEA L. WAITE, COLLIN
114	KSOR, IEM
115	THEDFORD, VERONICA
116	ABDELMAGIED, HAMDI M
117	WALKER, ANA SOFIA WALKER, AARON W
118	APPLE, BYRON A.
119	STEELMAN, GRETCHEN J STEELMAN, JEFFREY C
120	CHAUHAN, YOGESH K CHAUHAN, KUNJAM
121	ONEAL, ZELTINA D
122	WINBORNE, JASON B. WINBORNE, DIMEIA J.
123	PAIVA, COLEMAN Y PAIVA, EMILIE D
124	HLA, PAW
125	PARKS, ASHLEY RYAN
126	FOREMAN, WILLIE E FOREMAN, ALICE H
127	GOODWIN, MICHELLE LYNNE
128	YOUNG, MARLENA C YOUNG, NIKITA LAVAR
129	DURAN, ROBERT B DURAN, JENNIFER W
130	THOMAS, BELINDA F THOMAS, WILLIE P JR
131	CLARKSON, CORTINA
132	THOMAS, WILLIE JAMES III THOMAS, KRISTINA ANN
133	LOPEZ, MARIA MARGARITA ESPINOSA WASHINGTON, DERIC ANTHONY
134	SHAW, JETAME DALEY, CONNELL
135	BROWN, NAKITA T
136	AMO, ASHLEY C AMO, BRANDON
137	PICKETT, PHILEMON LAMONT
138	MCCARGO, TINA M TANT, JIMMY R
139	ROGHELIA, DANIEL B ROGHELIA, ELISE
140	ST MYER, GLENN P
141	MCKEE, RICHELE L
142	DATISME, REGINA W DATISME, ERNXO
143	TAYLOR, ANDREA B TAYLOR, BRYAN M
144	MALANYAON, ALDRICK CHEUNG, FLORENCE
145	BROWN, PAMELA BROWN, LLOYD
146	YARBOROUGH, MICHAEL L JR YARBOROUGH, LAWANDA J
147	NANCE, ALLAN NANCE, ASHLEY DANIELLE
148	MOE, KYAW SOE MON, PHYU PHYU
149	MIN, ZAW AYE, NAN AYE
150	DAVIS, BRANDON R
151	SOMMERVILLE, LAURA J PIETSCH, ALDON T
152	ALLARDICE, CHRISTOPHER M ALLARDICE, HEATHER L
153	ATKINSON, ASHLEIGH
154	STYLO, ALPHA MOO, SEL DA
155	AKINYEMI, FOLADOYIN MARY
156	JARAMILLO-SALCEDO, PAOLA AMEZQUITA-CARVAJAL, LUIS A
157	RODRIGUEZ, KARLO ANDRE
158	JOHNSON, HEATHER RINK JOHNSON, LANCE DANIEL
159	MCKINZIE, LAURA E
160	BELL, JEMICA
161	FORRINGER, WILLIAM G III
162	SPRINKLE, PATRICIA T JR
163	CDC DEVELOPMENT LLC
164	BYRD, HELEN J
165	SNIDER, DAVID E SNIDER, MYRA S
166	COX, KATHLEEN K
167	MATTHEWS, SAMMY L MATTHEWS, ELIZABETH M
168	CUNNINGHAM, THEODORE A
173	GOODIN, WILLENA R
174	DAURITY, JEROME WAYNE
175	JERNIGAN, DAVID E JERNIGAN, MARSHA K
176	AVENT, JEAN BELLE
177	FULLER, ALFRED LEE FULLER, LINDA B
178	HOLMES, AUBREY A HOLMES, KATHY L
188	HALL, LINDA WALL TRUSTEE OF THE LINDA WALL HALL FAMILY TRUST
189	ROGERS, SHANNA M HOLLAND, JOSEPH O
190	CHURCHILL COMMUNITY ASSN INC
1722	NC DEPARTMENT OF TRANSPORTATION
1723	GOWER, JERRY L GOWER, JO ANN
1807	AQUA NORTH CAROLINA INC
1808	SANDERS DEVELOPMENT COMPANY LLC
1811	GOWER, JOSEPH A GOWER, CAROLYN W

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(23)
WBS NO. 35512.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM LICENSE P-0202

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(23)
WBS NO. 35512.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM LICENSE P-0202

ROLL 14 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 14 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

MATCHLINE -Y23- STA. 39+00 ROLL 3

MATCHLINE -Y23D- STA. 33+00 ROLL 3

-Y23G- POT Sta. 13+38.38
-Y23G- PT Sta. 11+64.31
-Y23G- PC Sta. 10+44.65
-Y23- PC Sta. 23+67.58
-Y23- ST Sta. 18+82.67
-Y23- CS Sta. 16+82.67
-Y23- SC Sta. 14+54.75
-Y23- TS Sta. 12+54.75
-Y23- POT Sta. 10+00.00
-Y23- PT Sta. 29+23.34
-Y23D- POT Sta. 0+00.00
-Y23G- POT Sta. 0+00.00
-Y23- PC Sta. 32+17.32
-Y23- PT Sta. 29+52.78
-Y23D- PC Sta. 11+67.49
-Y23D- PT Sta. 13+48.89
-Y23D- PC Sta. 26+60.91
-Y23D- PT Sta. 31+65.90

N 21° 45' 50.8" W
S 89° 40' 34.7" W
N 01° 24' 28.1" E
N 47° 47' 47.1" W
N 17° 17' 58.8" W

BURNETTE, R GARLAND
BURNETTE, R G JR
JEAN, DONALD R
JEAN, KAY M
CAVINESS, JOHN M
JONES, CLARA HAWKINS
TRUELOVE, STEVEN
BRETT TRUELOVE,
ANNE S
MUSULIN, SAMUEL
MICHAEL MUSULIN,
ANNETTE D
2701 HIDDEN ACRE
LAND TRUST
SCOTT LEE HOMES INC
LANG, MATTHEW
LANG, MELISSA
CHIOTAKIS, KATIE M
TRAWICK, JEAN COATS
GOOD SAMARITAN BAPTIST CHURCH
CAPITAL PROPERTIES OF RALEIGH III LLC
CAPITAL CITIES COMMUNICATIONS INC

PROPOSED OVERHEAD FACILITIES
UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W
PROPOSED OVERHEAD FACILITIES
CORRIDOR LIMITS
CARDINAL PIPELINE
DUKE ENERGY TRANSMISSION LINE
WAKE COUNTY
JOHNSON COUNTY
TARWARD CT
WHITE OAK LANDING
SECONDED FARM RD
FUTURE WHITE OAK CREEK GREENWAY
SEE ROLL 34 FOR PROFILE

-Y23-

PI Sta 13+88.10	PI Sta 15+68.83	PI Sta 17+28.15	PI Sta 26+63.90	PI Sta 44+01.28
Gs= 2° 48' 31.0"	Δ = 6° 24' 04.6" (LT)	Gs = 2° 48' 31.0"	Δ = 22° 12' 16.8" (RT)	Δ = 65° 35' 19.0" (LT)
Ls= 200.00'	D = 2° 48' 31.0"	Ls = 200.00'	D = 3° 47' 39.9"	D = 3° 16' 26.6"
LT= 133.35'	L = 227.92'	LT = 133.35'	L = 595.19'	L = 2,003.29'
ST= 66.68'	T = 114.08'	ST = 66.68'	T = 296.31'	T = 1,127.55'
	R = 2,040.00'		R = 1,510.00'	R = 1,750.00'
	V= 50mph		V= 50mph	V= 50mph
	SE= 0.05		SE= 0.05	SE= 0.05

-Y23D-

PI Sta 16+98.91	PI Sta 29+23.13
Δ = 99° 29' 26.7" (LT)	Δ = 38° 04' 14.6" (LT)
D = 12° 43' 56.6"	D = 7° 32' 20.1"
L = 781.40'	L = 504.99'
T = 531.41'	T = 262.21'
R = 450.00'	R = 760.00'
V= 30mph	V= 30mph
SE= NC	SE= NC

-Y23G-

PI Sta 11+12.82
Δ = 68° 33' 34.6" (RT)
D = 57° 17' 44.8"
L = 119.66'
T = 68.16'
R = 100.00'
V= 30mph
SE= NC

354 BOYD, CLARENCE L JR
BOYD, SAMANTHA B
355 CAVINESS, JOHN M
CAVINESS, DIANE H
356 DICARLO, DOREEN M
357 LOVEALL, LOREN S III TRUSTEE
LOVEALL, MARLYS B TRUSTEE
358 VIVIAN, ANDREA R
VIVIAN, JAMIE R
359 JOHNSON, JOSHUA M
JOHNSON, LAURA M
360 WEATHERSPOON, ALLEN WAYNE
WEATHERSPOON, DEBORAH JEAN
361 BRINK, STEPHEN WILLIAM
BRINK, LARA ELLINGTON
364 MARTIN, CYNTHIA POPE
JONES, SCOTT MACON
365 CRUZ, AMANDA LEE
366 STEVENS, JACOB D
STEVENS, ALLISON

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
3346 DURHAM DR, SUITE 202
RALEIGH, NC 27603
(919) 510-1701

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
3346 DURHAM DR, SUITE 202
RALEIGH, NC 27603
(919) 510-1701

ROLL 15 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

-Y24A-		-Y24B-
PI Sta 12+17.87	PI Sta 15+18.23	PI Sta 10+84.56
Δ = 110° 03' 31.3" (RT)	Δ = 37° 01' 49.3" (LT)	Δ = 29° 41' 34.3" (RT)
D= 57° 17' 44.8"	D= 6° 19' 51.7"	D = 57° 17' 44.8"
L= 192.09'	L= 490.13'	L = 51.82'
T= 142.97'	T= 251.24'	T = 26.5'
R= 100.00'	R= 925.00'	R = 100.00'
V= 20mph	V= 25mph	V= 20mph
SE= 0.04	SE= 0.02	SE= 0.04

MATCHLINE -Y24- STA. 24+00 ROLL 5

RAYNOR, BOBBY CARLYLE
RAYNOR, MARGARET F

CORRIDOR LIMITS

MEDLIN, THELMA R

PARTLO GARNER LLC

JOHNSON, WILLIAM F
JOHNSON, BETTY H

PROPOSED OVERHEAD FACILITIES

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

-Y24- POT Sta. 14+89.38
-Y24A- POT Sta. 10+00.00

-Y24- POT Sta. 10+00.00

BURNETTE, R GARLAND

-Y24- US 70 BUSINESS

-Y24A- PI Sta. 10+74.90

-Y24B- PC Sta. 10+58.05

-Y24B- PT Sta. 11+09.82

-Y24B- POT Sta. 12+00.33

HAWLEY, DAVID M

-Y24A- WALNUT DR

-Y24A- PT Sta. 17+57.12

-Y24A- POC Sta. 11+58.00
-Y24B- POT Sta. 10+00.00
-Y24A- PRC Sta. 12+66.99

BUFFALOE ENTERPRISES LLC

DANIELS, CHRISTOPHER C

BUFFALOES ACRE RD

WALNUT DR

SEVENTY EAST ASSOCIATES L L C

70-EAST MOBILE ACRES & RV PARK

BUFFALOE MINI STORAGE LLC

BUFFALOE MINI STORAGE LLC

BUFFALOE ENTERPRISES LLC

NORFOLK SOUTHERN RAILWAY

WAYLAND E POOLE HOUSE

GARNER

SEE ROLL 35 FOR PROFILE

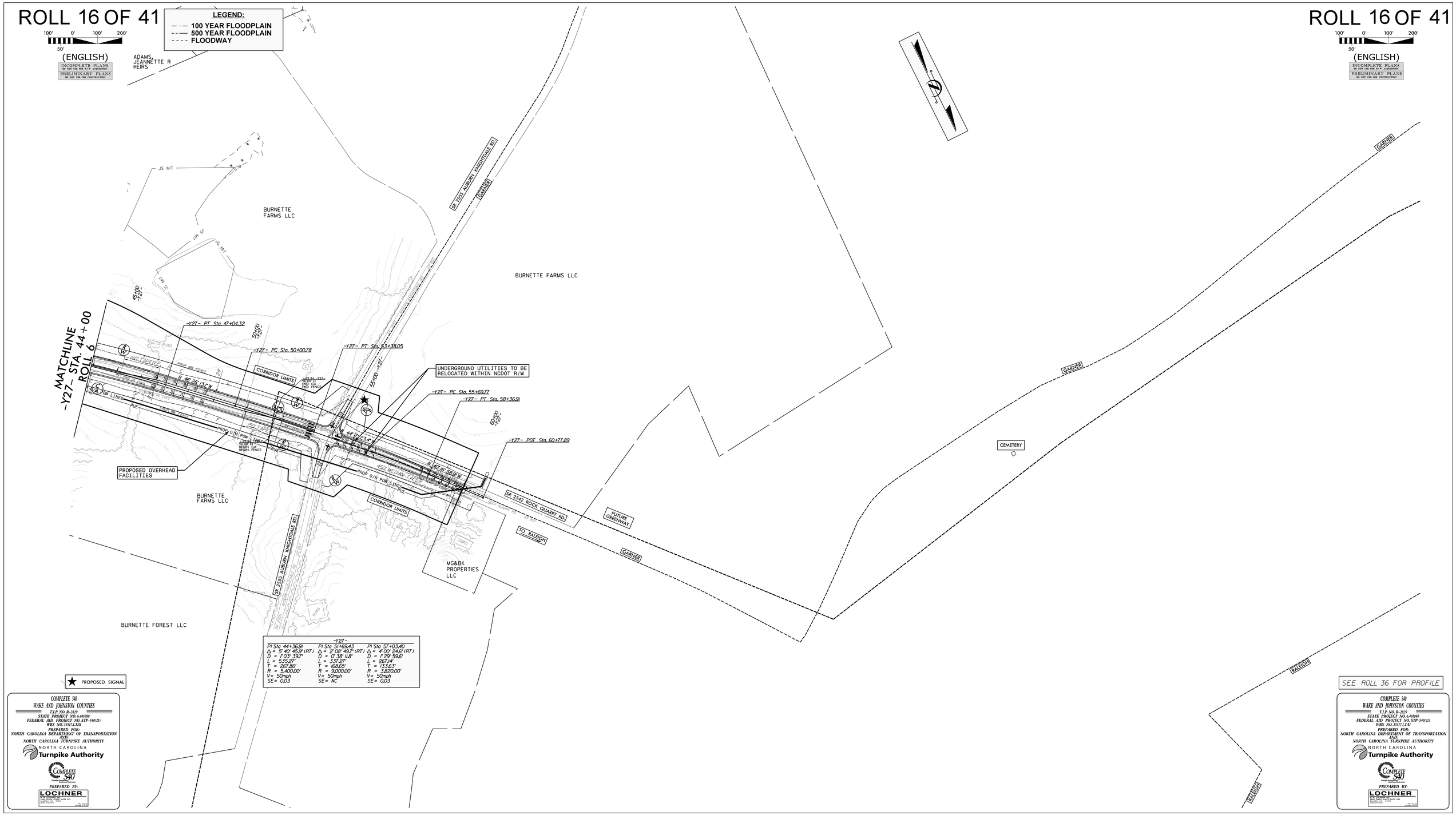
ROLL 15 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER


ROLL 16 OF 41
LEGEND:
100 YEAR FLOODPLAIN
500 YEAR FLOODPLAIN
FLOODWAY
(ENGLISH)
INCOMPLETE PLANS
PRELIMINARY PLANS
ADAMS, JEANNETTE R HEIRS
BURNETTE FARMS LLC
BURNETTE FARMS LLC
BURNETTE FARMS LLC
BURNETTE FOREST LLC
MATCHLINE -Y27- STA. 44+00 ROLL 6
-Y27- PT Sta. 47+04.32
-Y27- PC Sta. 50+00.78
-Y27- PT Sta. 53+38.05
-Y27- PC Sta. 55+69.77
-Y27- PT Sta. 58+36.91
-Y27- POT Sta. 60+77.89
CORRIDOR LIMITS
UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W
PROPOSED OVERHEAD FACILITIES
SR 2555 AUBURN KNIGHTDALE RD
SR 2542 ROCK QUARRY RD
FUTURE GREENWAY
TO RALEIGH
GARNER
CEMETERY
MG&BK PROPERTIES LLC
PROPOSED SIGNAL
-Y27-
PI Sta 44+36.91
Δ = 5° 40' 45.9" (RT)
D = 1° 03' 39.7"
L = 535.27'
T = 267.86'
R = 5,400.00'
V= 50mph
SE= 0.03
PI Sta 51+69.43
Δ = 2° 08' 49.7" (RT)
D = 0° 38' 11.8"
L = 337.27'
T = 168.65'
R = 9,000.00'
V= 50mph
SE= NC
PI Sta 57+03.40
Δ = 4° 00' 24.6" (RT)
D = 1° 29' 59.6"
L = 267.14'
T = 133.63'
R = 3,820.00'
V= 50mph
SE= 0.03
SEE ROLL 36 FOR PROFILE
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
PREPARED BY:
LOCHNER

ROLL 17 OF 41

100' 0' 100' 200'
50'

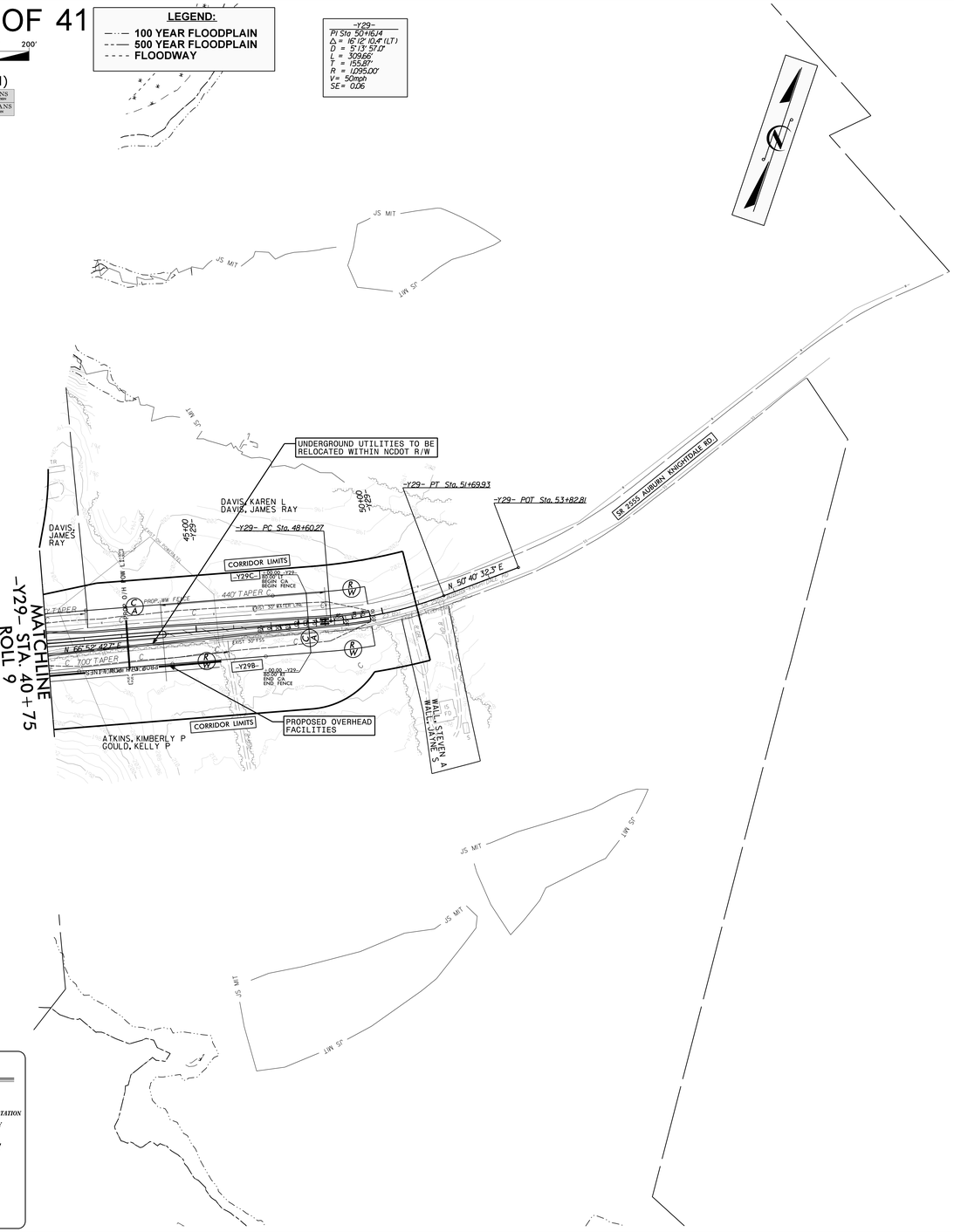
(ENGLISH)

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

LEGEND:

- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

-Y29-
PI Sta 50+16.14
Δ = 16°12' 10.4" (LT)
D = 5°13' 57.0"
L = 309.66'
T = 155.87'
R = 1095.00'
V= 50mph
SE= 0.06



SEE ROLL 37 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
3746 JOHNSON RD, SUITE 300
RALEIGH, NC 27604
NC FIRM P-0202

ROLL 17 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
3746 JOHNSON RD, SUITE 300
RALEIGH, NC 27604
NC FIRM P-0202

ROLL 18 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 18 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

MATCHLINE
-Y30- STA. 20+50
ROLL 11

FUTURE HODGE RD BIKE TRAIL

PAUL, LINDA TURNER MCDONALD, MARY DWIGHT T HEIRS

UNDERGROUND UTILITIES TO BE RELOCATED WITHIN NCDOT R/W

PROPOSED OVERHEAD FACILITIES

PARCEL MAY CONTAIN UNDERGROUND STORAGE TANK

PROPOSED OVERHEAD FACILITIES

CORRIDOR LIMITS

PROP R/W

PROP O/H POW LINES

PUE

L130 -Y30- 100.00' RT END C/L END FENCE

-Y30- 450' MEDIAN TAPER

-Y30- 150' TAPER

N 75°50'46" E

PROP WW FENCE

L130 -Y30- 100.00' RT BEGIN C/L BEGIN NOISE WALL 83.00' LT

-Y30- 200' TAPER

-Y30- 200' TAPER

-Y30- RT Sta 11+00.00

-Y30- RT Sta 12+50.71

-Y30- RT Sta 13+06.55

FLOYD, CHRISTINE B
FLOYD, IRA G

15'00"

20'00"

PAUL, LINDA TURNER MCDONALD, MARY DWIGHT T HEIRS

PARCEL CONTAINS 4 UNDERGROUND STORAGE TANKS

PROP R/W

PROP O/H POW LINES

PUE

FUTURE POOLE RD BIKE TRAIL

SR 1007 POOLE RD.

KNIGHTDALE

KNIGHTDALE

1725

CORRIDOR LIMITS

EXIST. R/W

EXIST. CL

EXIST. POWER POLE

PA BST

PA DR

ISBKBUS

RIVERVIEW LAND HOLDINGS, LP

234

SR 2316 MOOSE RD

WOODARD, LEAMON HEIRS

LEE, ROBERT LEWIS
SCARBORO, TIMOTHY MATTHEW

-Y30-	
PI Sta 11+26.31	PI Sta 20+70.21
Δ = 17°14'40.4" (LT)	Δ = 31°48'11.2" (RT)
D = 6°52'41.7"	D = 4°28'34.4"
L = 250.71'	L = 710.49'
T = 126.31'	T = 364.65'
R = 833.00'	R = 1,280.00'
V= 50mph	V= 50mph
SE= 0.06	SE= 0.06

SEE ROLL 38 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2629
STATE PROJECT NO. 6.400180
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2629
STATE PROJECT NO. 6.400180
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 19 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 19 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

MATCHLINE
-Y31- STA. 40+00
ROLL 12

ELLENDALE

TART, DEBORAH JANE
TART, MELTON E JR

SANTIAGO, LUIS E

CORRIDOR LIMITS

-Y3IRPBD- ST Sta. 16+64.35

-Y3IRPBD- CS Sta. 14+64.35

-Y3IRPBD- SC Sta. 12+00.00

-Y31- POT Sta. 10+91.97 =
-Y3IRPBD- ST Sta. 11+91.03
56.40' LT

PROP. WB FENCE

S. 11° 15' 21" E.

-Y31-
US 64 /264

S. 84°55' 26.5" E.

LILES, JOYCE C

LILES, JOYCE C

LILES, JOYCE C

RICHARDSON, JAMES EARL
RICHARDSON, GRAHAM EDWARD

MONEY TREE RENTAL LLC

OLD FAISON CO LLC

STALLINGS, DUDLEY B

MONEY TREE RENTAL LLC

CORRIDOR LIMITS

CORRIDOR LIMITS

BAILEY, BRENDA T

PARRISH, JOANN RICHARDSON

DUKE ENERGY TRANSMISSION LINE

OLD FAISON RD

PARKER, TAYLOR
PARKER, JOSEPH L

SATTERWHITE, JESSE W JR
SATTERWHITE, ELAINE J

DUKE ENERGY TRANSMISSION LINE

-Y3IRPBD-

PIs Sta 11+33.34	PI Sta 13+32.24	PIs Sta 15+31.02
Es = 1° 39' 13.3"	Δ = 4° 19' 39.0" (RT)	Es = 1° 39' 13.3"
Ls = 200.00'	D = 1° 38' 13.3"	Ls = 200.00'
LT = 133.34'	L = 264.55'	LT = 133.34'
ST = 66.67'	T = 132.24'	ST = 66.67'
	R = 3,500.00'	
	V= 65mph	
	SE= 0.05	

MINGO CREEK MITIGATION SITE

SEE ROLL 39 FOR PROFILE

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
1616 CAPITAL CENTER DR. SUITE 300
RALEIGH, NC 27609
NC FIRM# P-0293

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401010
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540 Triangle Expressway
PREPARED BY:
LOCHNER
1616 CAPITAL CENTER DR. SUITE 300
RALEIGH, NC 27609
NC FIRM# P-0293

ROLL 20 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

LEGEND:
- 100 YEAR FLOODPLAIN
- 500 YEAR FLOODPLAIN
- FLOODWAY

ROLL 20 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

-Y31RPC-
PIs Sta 17+24.63
Gs = 4°13' 36.3"
Ls = 225.00'
LT = 150.04'
ST = 75.04'

PI Sta 26+14.38
Δ = 57° 23' 13.0" (RT)
D = 3° 45' 25.6"
L = 1,527.43'
T = 834.69'
R = 1,525.00'
V= 65mph
SE= 0.08

PIs Sta 34+02.05
Gs = 4°13' 36.3"
Ls = 225.00'
LT = 150.04'
ST = 75.04'

PIs Sta 16+92.41
Gs= 5° 30' 01.4"
Ls= 240.00'
LT= 160.08'
ST= 80.07'

-Y31RPD-
PI Sta 23+27.87
Δ = 40° 51' 15.3" (RT)
D= 4° 35' 01.2"
L= 891.30'
T= 465.54'
R= 1,250.00'
V= 60mph
SE= 0.08

PIs Sta 27+43.70
Gs= 5° 30' 01.4"
Ls= 240.00'
LT= 160.08'
ST= 80.07'

-Y31RPB-
PIs Sta 15+83.73
Gs = 1°09' 37.5"
Ls = 160.00'
LT = 106.67'
ST = 53.34'

PI Sta 18+98.53
Δ = 7° 34' 26.9" (RT)
D = 1° 27' 01.9"
L = 522.17'
T = 261.46'
R = 3,950.00'
V= 60mph
SE= 0.04

PIs Sta 22+12.56
Gs = 1°09' 37.5"
LT = 106.67'
ST = 53.34'

PIs Sta 27+07.57
Gs= 2° 25' 41.8"
Ls= 198.00'
LT= 132.01'
ST= 66.01'

PI Sta 46+39.27
Δ = 17° 36' 41.6" (LT)
D= 2° 28' 10.7"
L= 3,142.62'
T= 1,865.71'
R= 2,320.00'
V= 60mph
SE= 0.06

PIs Sta 59+82.19
Gs= 2° 26' 41.8"
Ls= 198.00'
LT= 132.01'
ST= 66.01'

227 WHITFORD, JEFFREY T WHITFORD, SUZANNE P

EARLY, TROY O
EARLY,RHONDA B

WILDER, ASHLEY HEIRS

CORRIDOR LIMITS

TART, JUDY E

LILES, JOYCE C

HOPE HILL INC

HOPE HILL INC

FERRELL, TERRY LANCE
FERRELL, RANDALL HUTCHINS

FERRELL, TERRY LANCE
FERRELL, RANDALL HUTCHINS

LILES, JOYCE C

-Y31- POT Sta 98+55.78=
-Y31RPDB- POT Sta. 8+77.06
58.39 LT

-Y31RPDB- TS Sta. 14+77.06

-Y31RPDB- SC Sta. 16+37.06

-Y31RPDB- CS Sta. 21+59.23

-Y31RPDB- ST Sta. 23+19.23

-Y31RPDB- TS Sta. 25+75.56=
-Y31RPDT- POT Sta. 0+60.00
12.00' RT

-Y31RPDB- SC Sta. 27+73.56

-Y31RPDB- TS Sta. 15+74.57

-Y31RPDB- 0+00

-Y31RPDB- 6+59

-Y31RPDB- 22+00

-Y31RPDB- 24+00

-Y31RPDB- 26+00

-Y31RPDB- 28+00

-Y31RPDB- 30+00

-Y31RPDB- 32+00

-Y31RPDB- 34+00

-Y31RPDB- 36+00

-Y31RPDB- 38+00

-Y31RPDB- 40+00

-Y31RPDB- 42+00

-Y31RPDB- 44+00

-Y31RPDB- 46+00

-Y31RPDB- 48+00

-Y31RPDB- 50+00

-Y31RPDB- 52+00

-Y31RPDB- 54+00

-Y31RPDB- 56+00

-Y31RPDB- 58+00

-Y31RPDB- 60+00

-Y31RPDB- 62+00

-Y31RPDB- 64+00

-Y31RPDB- 66+00

-Y31RPDB- 68+00

-Y31RPDB- 70+00

-Y31RPDB- 72+00

-Y31RPDB- 74+00

-Y31RPDB- 76+00

-Y31RPDB- 78+00

-Y31RPDB- 80+00

-Y31RPDB- 82+00

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-Y31RPDB- 98+00

-Y31RPDB- 100+00

-Y31RPDB- 102+00

-Y31RPDB- 104+00

-Y31RPDB- 106+00

-Y31RPDB- 108+00

-Y31RPDB- 110+00

-Y31RPDB- 112+00

-Y31RPDB- 114+00

-Y31RPDB- 116+00

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-Y31RPDB- 124+00

-Y31RPDB- 126+00

-Y31RPDT- 130+00

-Y31RPDT- 132+00

-Y31RPDT- 134+00

-Y31RPDT- 136+00

-Y31RPDT- 138+00

-Y31RPDT- 140+00

-Y31RPDT- 142+00

-Y31RPDT- 144+00

-Y31RPDT- 146+00

-Y31RPDT- 148+00

-Y31RPDT- 150+00

-Y31RPDT- 152+00

-Y31RPDT- 154+00

-Y31RPDT- 156+00

-Y31RPDT- 158+00

-Y31RPDT- 160+00

-Y31RPDT- 162+00

-Y31RPDT- 164+00

-Y31RPDT- 166+00

-Y31RPDT- 168+00

-Y31RPDT-

ROLL 21 OF 41

200' 0' 200' 400'
100'
(ENGLISH)

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

ROLL 21 OF 41

200' 0' 200' 400'
100'
(ENGLISH)

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

-L-

PI = 910+30.00
EL = 256.81'
VC = 700'
K = 245
V = 80 mph

PI = 934+20.00
EL = 348.81'
VC = 2,300'
K = 313
SSD = 822'
V = 75 mph

PI = 962+60.00
EL = 249.75'
VC = 700'
K = 235
V = 80 mph

PI = 981+40.00
EL = 240.25'
VC = 500'
K = 255
V = 80 mph

(+)3.8492%
(+)0.9974%
(-)3.4882%
(-)3.4602%
(-)0.5052%
(+)1.1446%
(-)0.5052%

Y22RPA VCC
Y22RPA VCT
Y22LPB VCC
Y22LPB VCT
Y22SLIPRPE VCC
Y22SLIPRPE VCT
Y22RPE VCC
Y22RPE VCT
Y22LPC VCC
Y22LPC VCT

EXISTING GROUND
PROPOSED GRADE
PROPOSED SOFT ES PLDE
END GRADE
TIP PROJECT R-2828
BEGIN GRADE
TIP PROJECT R-2829
STA. 962+40.00
EL= 276.26

WETLAND BOUNDARY
STREAM

-Y22RPA-

BEGIN GRADE
-Y22RPA- STA. 10+00.00
EL= 255.25'

PI = 12+25.00
EL = 258.79'
VC = 100'
K = 167
V = 65 mph

PI = 11+00.00
EL = 256.31'
VC = 100'
K = 108 (GORE)
V = 50 mph

PI = 31+35.00
EL = 308.09'
VC = 700'
K = 152
SSD = 574'
V = 60 mph

PI = 42+16.00
EL = 288.46'
VC = 100'
K = 280
V = 80 mph

PI = 39+60.00
EL = 291.50'
VC = 120'
K = 146
V = 60 mph

END GRADE
-Y22RPA- STA. 43+00.83
EL= 287.76'

(+)2.5812%
(-)2.0104%
(-)0.8803%
(-)0.8303%
(+)1.0560%
(+)1.9824%

-Y22SLIPRPE-

BEGIN GRADE
-Y22SLIPRPE- STA. 10+00.00
EL= 255.38'

PI = 21+00.00
EL = 243.18'
VC = 215'
K = 138
V = 60mph

PI = 31+50.00
EL = 248.43'
VC = 550'
K = 152
V = 60mph

PI = 48+35.00
EL = 317.97'
VC = 990'
K = 152
SSD = 572'
V = 60mph

END GRADE
-Y22SLIPRPE- STA. 58+20.15
EL= 294.44'

PI = 10+70.00
EL = 254.11'
VC = 115'
K = 153
V = 60mph

(+)1.1261%
(+)0.5002%
(-)1.0612%
(+)1.2127%
(-)2.4012%
(-)2.5394%
(-)2.1526%

-Y22LPB-

BEGIN GRADE
-Y22LPB- STA. 10+00.00
EL= 260.49'

PI = 22+85.00
EL = 278.36'
VC = 900'
K = 128
V = 55 mph

PI = 11+65.00
EL = 320.00'
VC = 150'
K = 81
SSD = 656'
V = 45 mph

PI = 34+75.00
EL = 289.02'
VC = 230'
K = 82
V = 45 mph

PI = 37+50.00
EL = 281.81'
VC = 210'
K = 225
V = 75 mph

PI = 40+85.00
EL = 275.95'
VC = 60'
K = 111
SSD = 2024'
V = 50 mph

PI = 31+45.00
EL = 306.92'
VC = 430'
K = 49
SSD = 326'
V = 40 mph

PI = 38+90.00
EL = 278.83'
VC = 110'
K = 167
V = 65 mph

END GRADE
-Y22LPB- STA. 41+00.00
EL= 275.20'

(-)1.8617%
(-)1.3718%
(+)1.3201%
(-)1.5423%
(-)1.2695%
(-)1.4754%
(-)1.2338%
(-)2.0162%

-Y22RPAFLY-

PI = 41+30.00
EL = 256.77'
VC = 300'
K = 180
V = 65mph

PI = 63+25.00
EL = 315.49'
VC = 550'
K = 151
SSD = 570'
V = 60mph

PI = 67+00.00
EL = 311.80'
VC = 200'
K = 513
V = 80mph

END GRADE
-Y22RPAFLY- STA. 68+80.00
EL= 310.73'

(+)2.6753%
(-)0.8832%
(-)0.8581%
(-)0.6543%
(+)1.1000%
(+)1.2953%

-Y22RPE-

BEGIN GRADE
-Y22RPE- STA. 10+00.00
EL= 230.35'

PI = 16+50.00
EL = 232.30'
VC = 138
V = 60 mph

PI = 42+50.00
EL = 305.96'
VC = 1,000'
K = 160
SSD = 587'
V = 60 mph

PI = 52+05.00
EL = 273.17'
VC = 230'
K = 348
SSD = 1749'
V = 75 mph

END GRADE
-Y22RPE- STA. 53+96.15
EL= 265.34'

(+)0.3000%
(+)2.8329%
(+)2.8333%
(-)3.4333%
(-)3.4333%
(-)1.1034%

-Y22LPC-

PI = 11+50.00
EL = 271.12'
VC = 150'
K = 118
SSD = 927'
V = 55 mph

PI = 15+10.00
EL = 263.37'
VC = 450'
K = 51
V = 35 mph

PI = 24+10.00
EL = 320.16'
VC = 270'
K = 85
SSD = 473'
V = 50 mph

PI = 22+10.00
EL = 310.37'
VC = 130'
K = 71
SSD = 658'
V = 45 mph

END GRADE
-Y22LPC- STA. 26+25.13
EL= 323.83'

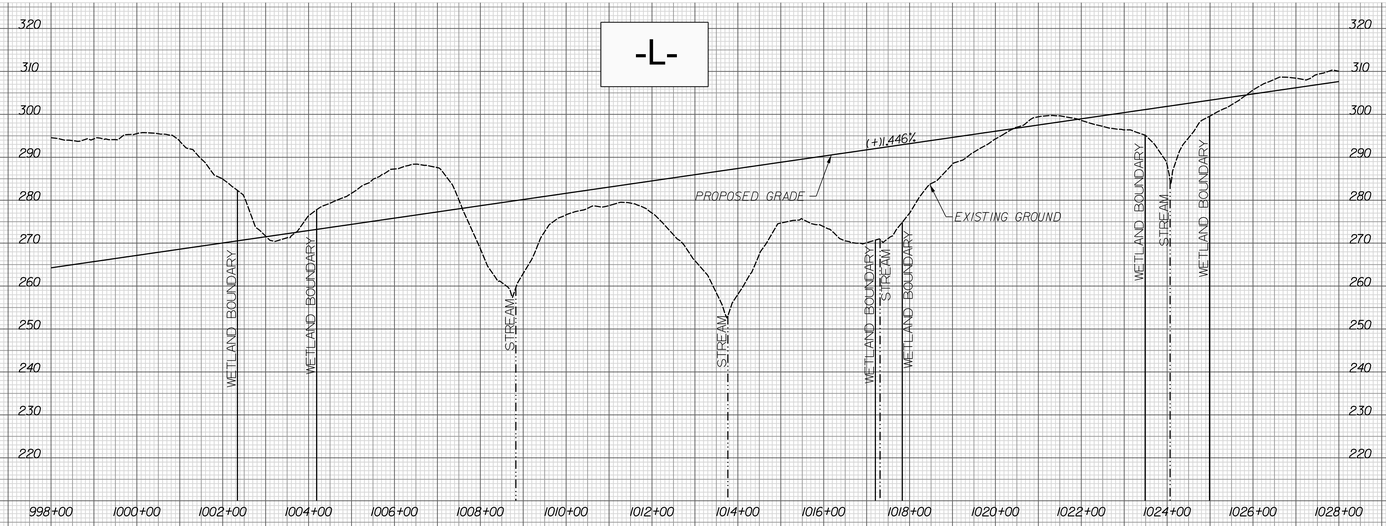
BEGIN GRADE
-Y22LPC- STA. 10+00.00
EL= 272.45'

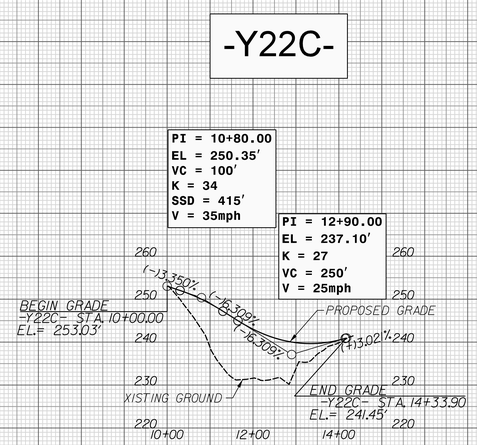
(-)0.2885%
(-)2.1526%
(+)1.6714%
(+)1.7104%
(+)1.8794%
(-)2.1526%

SEE ROLL 1 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTY
TIP NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35511.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION





COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM
NUMBER F-0112

SEE ROLL 2 FOR -L- PLAN VIEW

ROLL 22 OF 41
100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM
NUMBER F-0112

ROLL 23 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

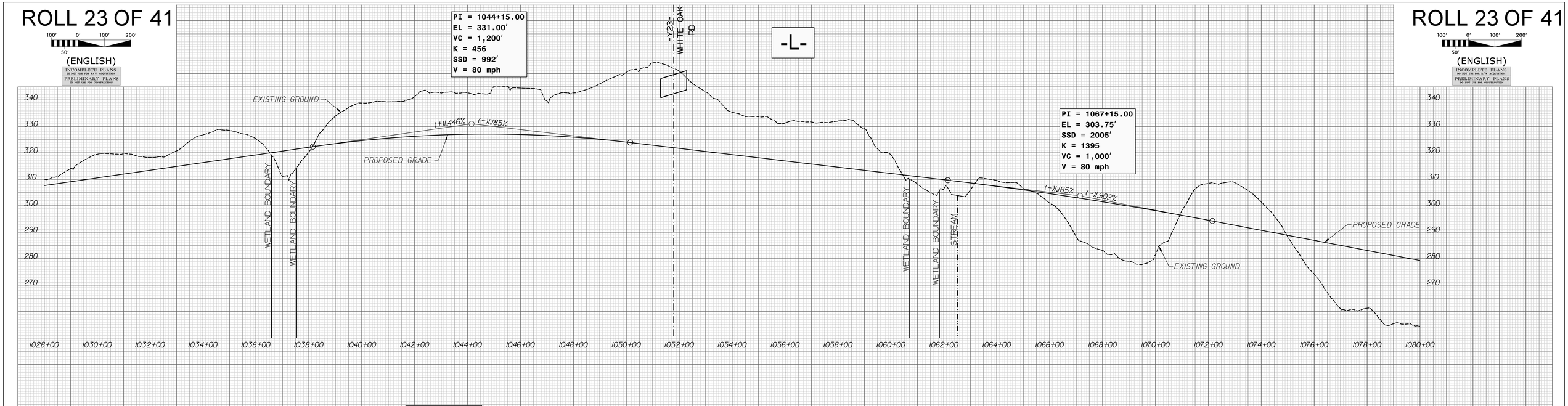
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

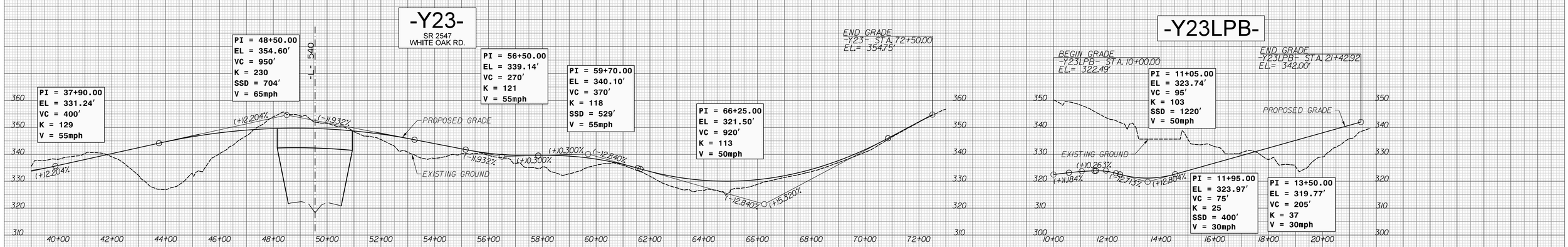
ROLL 23 OF 41

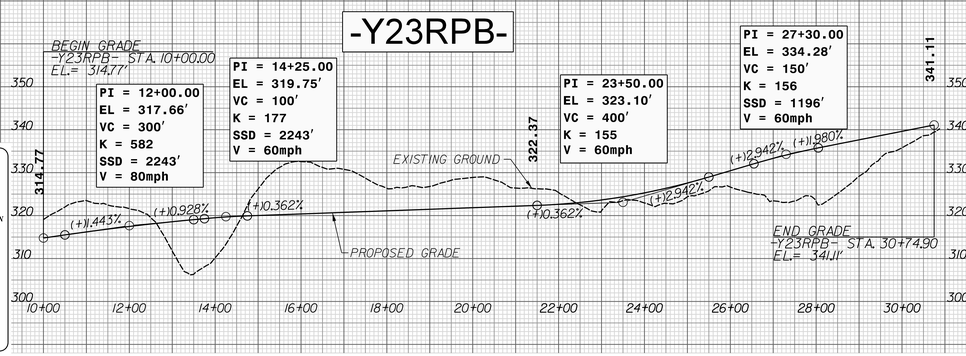
100' 0' 100' 200'
50'

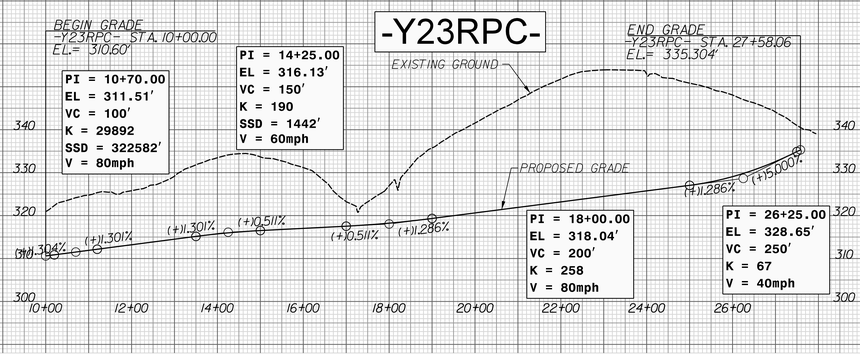
(ENGLISH)

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









SEE ROLL 3 FOR PLAN VIEW

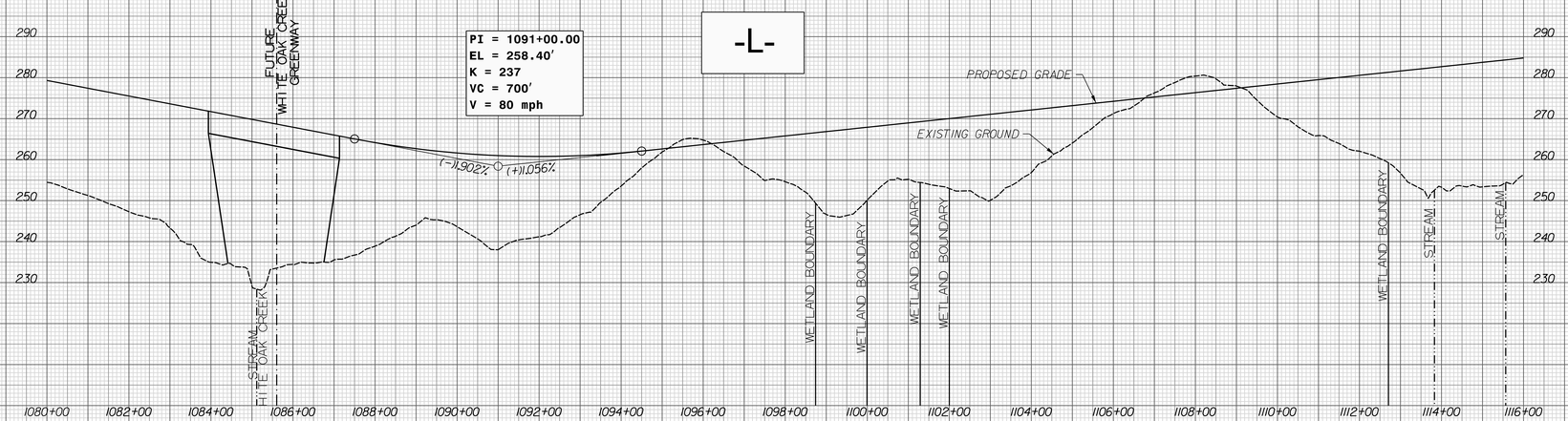
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM P-0102

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM P-0102

ROLL 24 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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



COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESSWAY

PREPARED BY:

LOCHNER
1714 CAMDEN ROAD
SUITE 200
CHARLOTTE, NC 28203
(704) 376-1555
NC FIRM P-0102

SEE ROLL 4 FOR -L- PLAN VIEW

ROLL 24 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

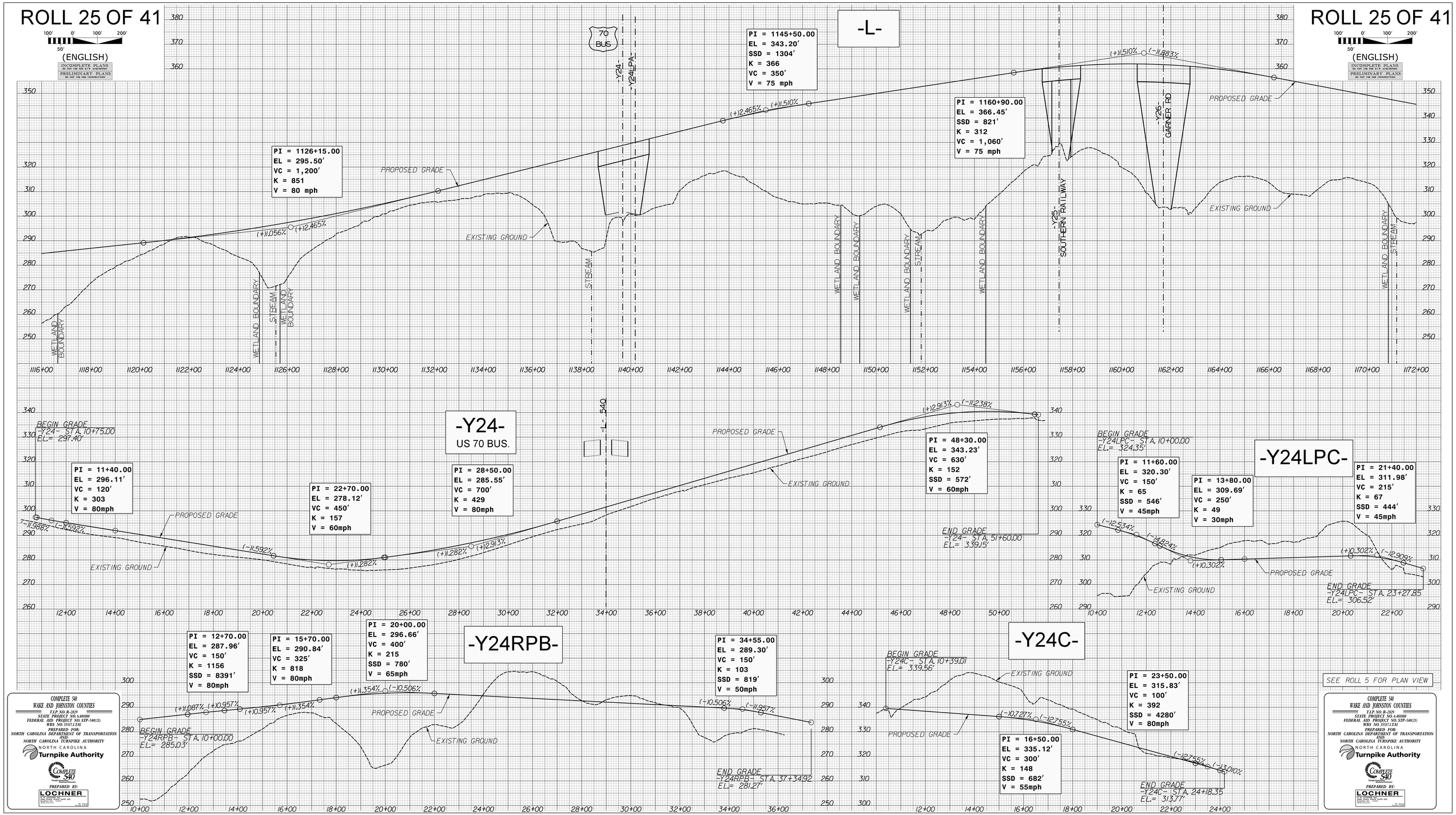
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESSWAY

PREPARED BY:

LOCHNER
1714 CAMDEN ROAD
SUITE 200
CHARLOTTE, NC 28203
(704) 376-1555
NC FIRM P-0102


ROLL 25 OF 41
(ENGLISH)
INCOMPLETE PLANS
PRELIMINARY PLANS
-L-
PI = 1126+15.00
EL = 295.50'
VC = 1,200'
K = 851
V = 80 mph
PI = 1145+50.00
EL = 343.20'
SSD = 1304'
K = 366
VC = 350'
V = 75 mph
PI = 1160+90.00
EL = 366.45'
SSD = 821'
K = 312
VC = 1,060'
V = 75 mph
70 BUS
-Y24-
-Y24LPA-
-Y25- SOUTHERN RAILWAY
-Y26- GARNER RD
PROPOSED GRADE
EXISTING GROUND
WETLAND BOUNDARY
STREAM
-Y24-
US 70 BUS.
-L- 540
BEGIN GRADE
-Y24- STA. 10+75.00
EL.= 297.40'
PI = 11+40.00
EL = 296.11'
VC = 120'
K = 303
V = 80mph
PI = 22+70.00
EL = 278.12'
VC = 450'
K = 157
V = 60mph
PI = 28+50.00
EL = 285.55'
VC = 700'
K = 429
V = 80mph
PI = 48+30.00
EL = 343.23'
VC = 630'
K = 152
SSD = 572'
V = 60mph
END GRADE
-Y24- STA. 51+60.00
EL.= 339.15'
-Y24LPC-
BEGIN GRADE
-Y24LPC- STA. 10+00.00
EL.= 324.35'
PI = 11+60.00
EL = 320.30'
VC = 150'
K = 65
SSD = 546'
V = 45mph
PI = 13+80.00
EL = 309.69'
VC = 250'
K = 49
V = 30mph
PI = 21+40.00
EL = 311.98'
VC = 215'
K = 67
SSD = 444'
V = 45mph
END GRADE
-Y24LPC- STA. 23+27.85
EL.= 306.52'
-Y24RPB-
PI = 12+70.00
EL = 287.96'
VC = 150'
K = 1156
SSD = 8391'
V = 80mph
PI = 15+70.00
EL = 290.84'
VC = 325'
K = 818
V = 80mph
PI = 20+00.00
EL = 296.66'
VC = 400'
K = 215
SSD = 780'
V = 65mph
PI = 34+55.00
EL = 289.30'
VC = 150'
K = 103
SSD = 819'
V = 50mph
BEGIN GRADE
-Y24RPB- STA. 10+00.00
EL.= 285.03'
END GRADE
-Y24RPB- STA. 37+34.92
EL.= 281.27'
-Y24C-
BEGIN GRADE
-Y24C- STA. 10+39.01
EL.= 339.56'
PI = 16+50.00
EL = 335.12'
VC = 300'
K = 148
SSD = 682'
V = 55mph
PI = 23+50.00
EL = 315.83'
VC = 100'
K = 392
SSD = 4280'
V = 80mph
END GRADE
-Y24C- STA. 24+18.35
EL.= 313.77'
SEE ROLL 5 FOR PLAN VIEW
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.400080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
PREPARED BY:
LOCHNER

ROLL 26 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

ROLL 26 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

-L-

PI = 1194+15.00
EL = 380.75'
SSD = 848'
K = 333
VC = 1,800'
V = 75 mph

PI = 1179+50.00
EL = 331.42'
K = 215
VC = 1,130'
V = 75 mph

(+)3.361%
(-)2.033%
(-)1.883%
(+)3.361%
PROPOSED GRADE
EXISTING GROUND
EXISTING GROUND
PROPOSED GRADE
(-)2.033%
WETLAND BOUNDARY
-Y27- ROCK QUARRY RD

380 370 360 350 340 330 320 310 300

1172+00 1174+00 1176+00 1178+00 1180+00 1182+00 1184+00 1186+00 1188+00 1190+00 1192+00 1194+00 1196+00 1198+00 1200+00 1202+00 1204+00 1206+00 1208+00 1210+00 1212+00 1214+00 1216+00 1218+00 1220+00 1222+00 1224+00 1226+00 1228+00

-Y27-
SR 2542
ROCK QUARRY RD.

-L- 540

BEGIN GRADE
-Y27- STA. 16+00.00
EL.= 373.06'

PI = 20+10.00
EL = 378.39'
VC = 200'
K = 369
V = 80mph

PI = 22+25.00
EL = 382.35'
VC = 200'
K = 156
SSD = 944'
V = 60mph

(+)1.300%
(+)1.842%
(+)0.564%
EXISTING GROUND
PROPOSED GRADE

410 400 390 380 370 360 350

18+00 20+00 22+00 24+00 26+00 28+00 30+00 32+00 34+00 36+00 38+00 40+00 42+00 44+00

-Y27RPD-

BEGIN GRADE
-Y27RPD- STA. 10+00.00
EL.= 318.68'

PI = 11+95.00
EL = 322.68'
VC = 180'
K = 241
SSD = 1536'
V = 65mph

PI = 15+25.00
EL = 327.00'
VC = 400'
K = 205
V = 70mph

PI = 25+50.00
EL = 360.43'
VC = 200'
K = 127
V = 55mph

PI = 31+45.00
EL = 389.19'
VC = 160'
K = 27
SSD = 265'
V = 30mph

(+)2.054%
(+)1.308%
(+)1.308%
(+)3.261%
(+)3.261%
(+)14.834%
(+)14.834%
(+)14.010%
EXISTING GROUND
PROPOSED GRADE
END GRADE
-Y27RPD- STA. 32+62.49
EL.= 388.00'

410 400 390 380 370 360 350 340 330 320

10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00 26+00 28+00 30+00 32+00

-Y27LPA-

PI = 21+05.00
EL = 387.87'
VC = 290'
K = 96
SSD = 503'
V = 50mph

PI = 14+95.00
EL = 350.12'
VC = 360'
K = 46
V = 30mph

EXISTING GROUND
(+)6.188%
(-)4.375%
(-)11.641%
(+)16.188%
BEGIN GRADE
-Y27LPA- STA. 10+00.00
EL.= 358.25'
END GRADE
-Y27LPA- STA. 22+52.52
EL.= 392.55'
PROPOSED GRADE

400 390 380 370 360 350 340

10+00 12+00 14+00 16+00 18+00 20+00 22+00

-Y27LPD-

PI = 18+60.00
EL = 372.40'
VC = 200'
K = 94
SSD = 606'
V = 50mph

PI = 21+85.00
EL = 389.20'
VC = 150'
K = 25
SSD = 252'
V = 30mph

PI = 11+35.00
EL = 355.57'
VC = 130'
K = 66
SSD = 613'
V = 45mph

PI = 14+50.00
EL = 342.47'
VC = 500'
K = 44
V = 30mph

BEGIN GRADE
-Y27LPD- STA. 10+00.00
EL.= 358.53'
EXISTING GROUND
(+)5.168%
(-)0.928%
(-)12.197%
(-)14.160%
(-)14.160%
(+)7.300%
(+)7.300%
(+)5.168%
END GRADE
-Y27LPD- STA. 22+94.00
EL.= 388.19'
PROPOSED GRADE

400 390 380 370 360 350 340

10+00 12+00 14+00 16+00 18+00 20+00 22+00

-Y27RPA-

PI = 18+65.00
EL = 339.55'
VC = 500'
K = 171
V = 65mph

PI = 12+50.00
EL = 325.96'
VC = 350'
K = 832
V = 80mph

PI = 15+15.00
EL = 332.50'
VC = 150'
K = 332
SSD = 2464'
V = 75mph

PI = 28+75.00
EL = 389.52'
VC = 200'
K = 97
SSD = 625'
V = 50mph

BEGIN GRADE
-Y27RPA- STA. 10+00.00
EL.= 320.85'
EXISTING GROUND
PROPOSED GRADE
(+)2.046%
(+)2.467%
(+)2.467%
(+)2.015%
(+)2.015%
(+)4.947%
(+)4.947%
(+)12.892%
END GRADE
-Y27RPA- STA. 29+86.54
EL.= 392.74'
320.85

400 390 380 370 360 350 340 330 320

10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00 26+00 28+00

SEE ROLL 6 FOR PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
2500 GOLDEN TRAIL
SUITE 200
FORT WORTH, TEXAS
76177
817-870-2511
TBPE F-2580

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
2500 GOLDEN TRAIL
SUITE 200
FORT WORTH, TEXAS
76177
817-870-2511
TBPE F-2580



ROLL 27 OF 41

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

SEE ROLL 7 FOR PLAN VIEW

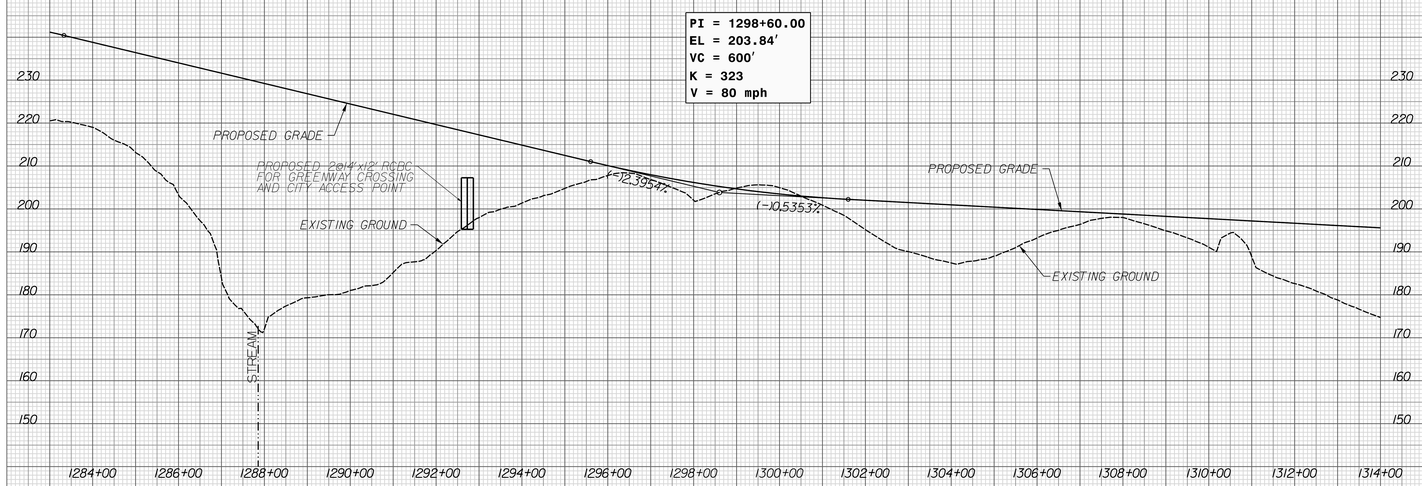
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

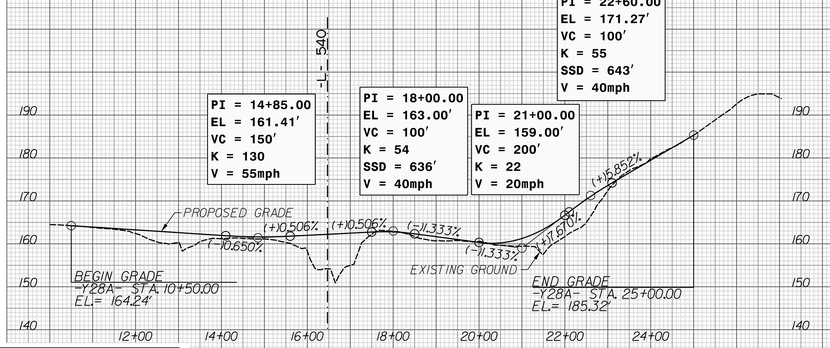
ROLL 28 OF 41

100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

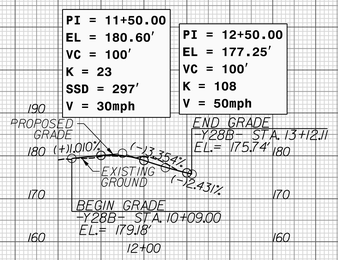
-L-



-Y28A-
NEUSE RIVER TRAIL RELOCATION



-Y28B-



SEE ROLL 8 FOR -L- PLAN VIEW
SEE ROLL 9 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 29 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

ROLL 29 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

-L-

PI = 1345+00.00
EL = 179.00'
VC = 600'
K = 358
V = 80 mph

PROPOSED GRADE
(-)0.535%
(+)1.139%
EXISTING GROUND
NEUSE RIVER TRAIL
Y29
AUBURN-KNIGHTDALE RD.
WETLAND BOUNDARY
STREAM

-Y29-

SR 2555
AUBURN KNIGHTDALE RD.

PI = 29+35.00
EL = 207.33'
VC = 260'
K = 98
SSD = 538'
V = 50mph

PI = 36+25.00
EL = 212.04'
VC = 300'
K = 171
SSD = 766'
V = 60mph

-L± 540

BEGIN GRADE
-Y29- STA. 13+60.00
EL.= 174.11'

PI = 14+35.00
EL = 174.48'
VC = 120'
K = 136
SSD = 1287'
V = 55mph

PI = 15+60.00
EL = 174.01'
VC = 120'
K = 136
V = 60mph

PI = 20+00.00
EL = 176.21'
VC = 350'
K = 124
V = 55mph

EXISTING GROUND
PROPOSED GRADE
(+)0.500%
(-)0.380%
(+)3.329%
(+)0.682%
(-)1.071%

-Y29RPA-

BEGIN GRADE
-Y29RPA- STA. 10+00.00
EL.= 191.71'

PI = 16+50.00
EL = 183.38'
VC = 150'
K = 2458
SSD = 17754'
V = 80mph

PI = 21+30.00
EL = 176.93'
VC = 400'
K = 99
V = 50mph

PI = 28+20.00
EL = 195.50'
SSD = 1120'
K = 145
VC = 150'
V = 60mph

END GRADE
-Y29RPA- STA. 29+74.95
EL.= 198.07'

PROPOSED GRADE
EXISTING GROUND
(-)1.281%
(-)1.342%
(+)2.691%
(+)12.691%
(+)11.659%

-Y29RPD-

BEGIN GRADE
-Y29RPD- STA. 10+00.00
EL.= 192.22'

PI = 12+50.00
EL = 189.35'
VC = 375'
K = 493
SSD = 1605'
V = 80mph

PI = 21+50.00
EL = 172.18'
K = 136
VC = 920'
V = 60mph

END GRADE
-Y29RPD- STA. 29+06.07
EL.= 208.81'

PROPOSED GRADE
EXISTING GROUND
(-)1.147%
(-)1.909%
(+)14.846%

-Y29LPD-

BEGIN GRADE
-Y29LPD- STA. 10+00.00
EL.= 181.90'

PI = 11+00.00
EL = 181.35'
VC = 90'
K = 104
SSD = 1296'
V = 50mph

PI = 11+80.00
EL = 180.23'
VC = 60'
K = 47
SSD = 866'
V = 40mph

PI = 14+00.00
EL = 174.30'
K = 37
VC = 310'
V = 30mph

END GRADE
-Y29LPD- STA. 20+13.53
EL.= 209.10'

EXISTING GROUND
PROPOSED GRADE
(-)0.542%
(-)1.404%
(-)12.696%
(+)5.612%

-Y29LPA-

BEGIN GRADE
-Y29LPA- STA. 10+00.00
EL.= 182.12'

PI = 11+40.00
EL = 181.36'
VC = 120'
K = 61
SSD = 606'
V = 40mph

PI = 13+00.00
EL = 177.34'
VC = 200'
K = 38
V = 30mph

END GRADE
-Y29LPA- STA. 20+57.37
EL.= 198.54'

PROPOSED GRADE
EXISTING GROUND
(-)0.540%
(-)2.516%
(+)2.799%

SEE ROLL 9 FOR PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35511.1.1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 30 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

ROLL 30 OF 41

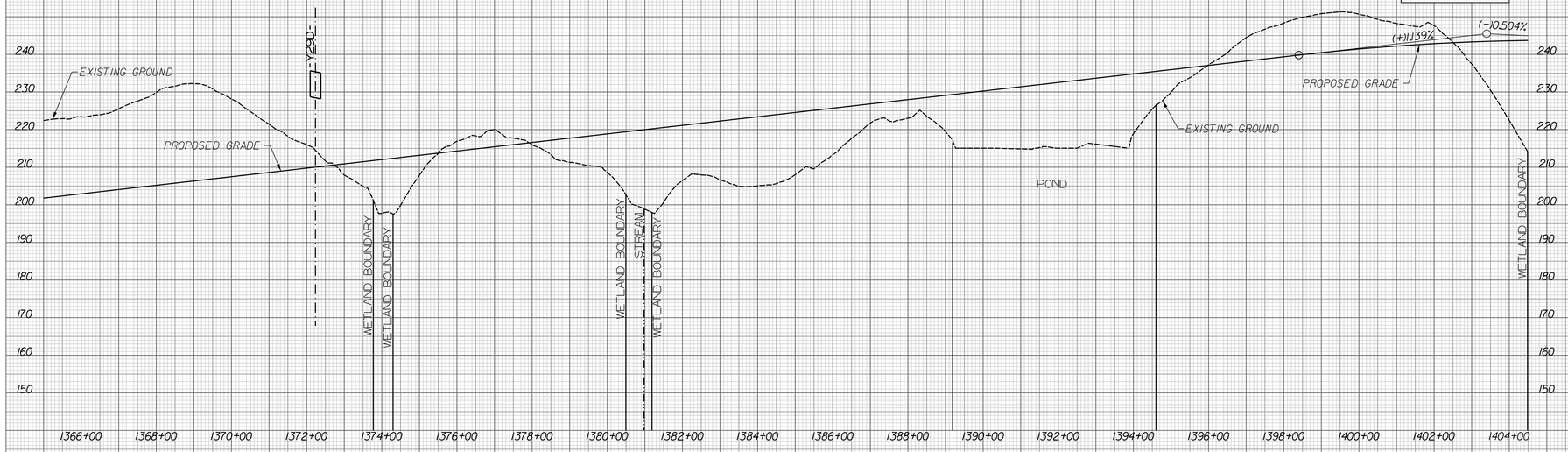
100' 0' 100' 200'
50'

(ENGLISH)

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

-L-

PI = 1403+40.00
EL = 245.50'
VC = 1,000'
K = 609
SSD = 1157'
V = 80 mph

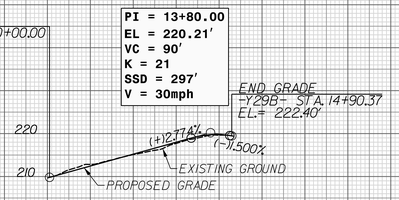


-Y29B-

PI = 13+80.00
EL = 220.21'
VC = 90'
K = 21
SSD = 297'
V = 30mph

BEGIN GRADE
-Y29B- STA. 10+00.00
EL.= 226.44'

END GRADE
-Y29B- STA. 14+90.37
EL.= 222.40'



SEE ROLL 10 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
Complete 540
PREPARED BY:
LOCHNER
1616 EASTCHESTER DRIVE, SUITE 350
HIGH POINT, NC 27265
(336) 274-1772
NC FIRM P-0102

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1
PREPARED FOR:
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AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
Complete 540
PREPARED BY:
LOCHNER
1616 EASTCHESTER DRIVE, SUITE 350
HIGH POINT, NC 27265
(336) 274-1772
NC FIRM P-0102

ROLL 31 OF 41

ROLL 31 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

-L-

PI = 1403+40.00
EL = 245.50'
VC = 1,000'
K = 609
SSD = 1157'
V = 80 mph

PI = 1415+00.00
EL = 239.66'
SSD = 3688'
VC = 250'
K = 826
V = 80 mph

PI = 1431+15.00
EL = 226.63'
VC = 350'
K = 267
V = 80 mph

PI = 1436+00.00
EL = 229.08'
SSD = 1295'
VC = 450'
K = 446
V = 80 mph

PI = 1449+55.00
EL = 222.25'
VC = 1,300'
K = 525
V = 80 mph

-Y30-
POOLE RD

(-)0.504%
(-)0.504%
(-)0.807%
(-)0.807%
(+)0.505%
(+)0.505%
(-)0.504%
(-)0.504%
(+)1.973%

PROPOSED GRADE
EXISTING GROUND
PROPOSED GRADE
EXISTING GROUND

STREAM
WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY
STREAM
WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY

260 250 240 230 220 210 200 190 180

1406+00 1408+00 1410+00 1412+00 1414+00 1416+00 1418+00 1420+00 1422+00 1424+00 1426+00 1428+00 1430+00 1432+00 1434+00 1436+00 1438+00 1440+00 1442+00 1444+00 1446+00 1448+00 1450+00

-Y30-
SR 1007
POOLE RD.

PI = 19+85.00
EL = 243.70'
VC = 200'
K = 135
V = 55mph

PI = 25+40.00
EL = 221.14'
VC = 300'
K = 357
SSD = 1433'
V = 75mph

PI = 28+40.00
EL = 206.42'
VC = 220'
K = 106
V = 50mph

-L- 540

PI = 32+00.00
EL = 196.25'
VC = 480'
K = 132
V = 55mph

PI = 36+60.00
EL = 199.98'
VC = 360'
K = 97
V = 50mph

PI = 39+80.00
EL = 214.43'
VC = 200'
K = 123
SSD = 764'
V = 55mph

PI = 44+90.00
EL = 229.19'
VC = 150'
K = 105
V = 50mph

PI = 48+50.00
EL = 244.74'
VC = 455'
K = 472
SSD = 1346'
V = 80mph

(-)4.066%
(-)4.066%
(-)4.907%
(-)4.907%
(-)12.824%
(-)12.824%
(+)0.811%
(+)0.811%
(+)14.517%
(+)14.517%
(+)12.893%
(+)12.893%
(+)14.320%
(+)14.320%
(+)3.366%

EXISTING GROUND

END GRADE
-Y30- STA. 51+00.00
EL.= 253.13'

280 270 260 250 240 230 220 210 200 190

22+00 24+00 26+00 28+00 30+00 32+00 34+00 36+00 38+00 40+00 42+00 44+00 46+00 48+00 50+00

-Y30RPB-

BEGIN GRADE
-Y30RPB- STA. 10+00.00
EL.= 242.54'

PI = 12+55.00
EL = 241.24'
VC = 400'
K = 566
SSD = 1727'
V = 80mph

PI = 16+50.00
EL = 236.44'
VC = 250'
K = 766
V = 80mph

PI = 30+00.00
EL = 224.45'
VC = 150'
K = 386
V = 80mph

(-)0.509%
(-)1.215%
(-)1.215%
(-)0.885%
(-)0.889%
(-)0.500%

PROPOSED GRADE
EXISTING GROUND

END GRADE
-Y30LPB- STA. 31+20.32
EL.= 223.85'

280 270 260 250 240 230 220 210 200 190

10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00 26+00 28+00 30+00

-Y30LPB-

BEGIN GRADE
-Y30LPB- STA. 10+00.00
EL.= 230.11'

PI = 12+10.00
EL = 231.80'
VC = 100'
K = 857
SSD = 9256'
V = 80mph

PI = 14+30.00
EL = 233.31'
VC = 100'
K = 41
SSD = 493'
V = 35mph

PI = 18+75.00
EL = 225.53'
VC = 250'
K = 175
V = 65mph

(+)0.803%
(+)0.686%
(-)11.748%
(-)11.748%
(-)10.319%

PROPOSED GRADE
EXISTING GROUND

END GRADE
-Y30LPB- STA. 24+02.05
EL.= 233.85'

240 230 220 210 200

10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00

-Y30RPC-

PI = 11+00.00
EL = 242.98'
VC = 150'
K = 581
SSD = 4253'
V = 80mph

PI = 18+25.00
EL = 238.27'
VC = 680'
K = 193
SSD = 646'
V = 65mph

PI = 27+75.00
EL = 198.73'
VC = 350'
K = 96
V = 50mph

(-)0.390%
(-)0.649%
(-)0.649%
(-)14.163%
(-)14.163%
(-)0.500%

PROPOSED GRADE
EXISTING GROUND

BEGIN GRADE
-Y30RPC- STA. 10+00.00
EL.= 243.37'

END GRADE
-Y30RPC- STA. 29+63.66
EL.= 197.78'

250 240 230 220 210 200 190

10+00 12+00 14+00 16+00 18+00 20+00 22+00 24+00 26+00 28+00

SEE ROLL II FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM P-0102

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
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NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
NC FIRM P-0102

ROLL 32 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

ROLL 32 OF 41

100' 0' 100' 200'
50'

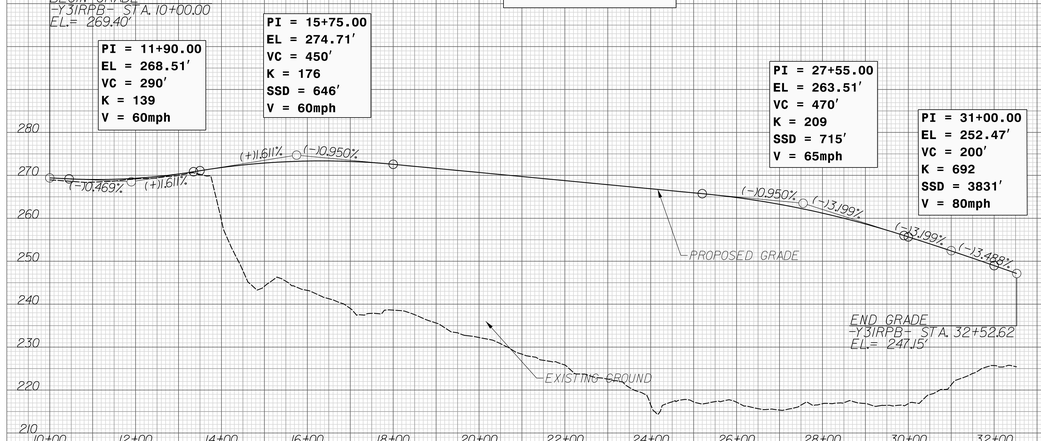
(ENGLISH)

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

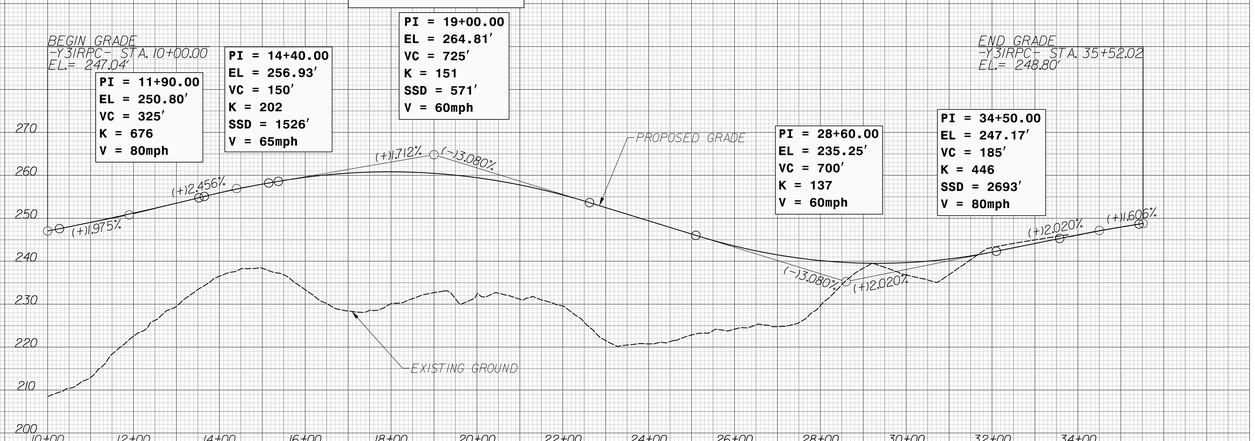
-L-



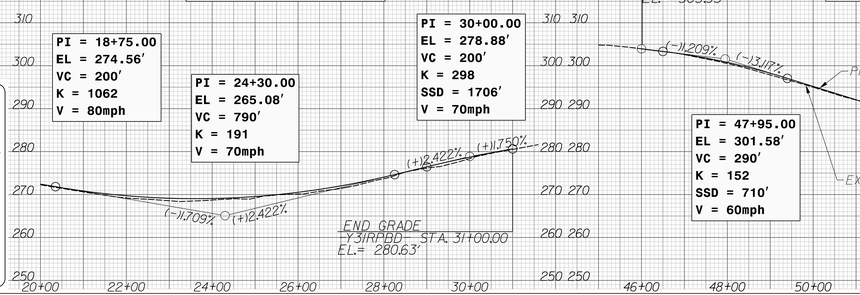
-Y31RPB-



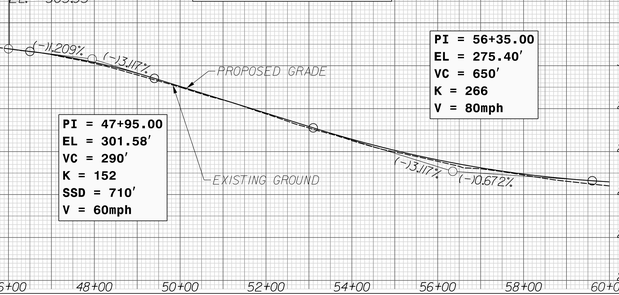
-Y31RPC-



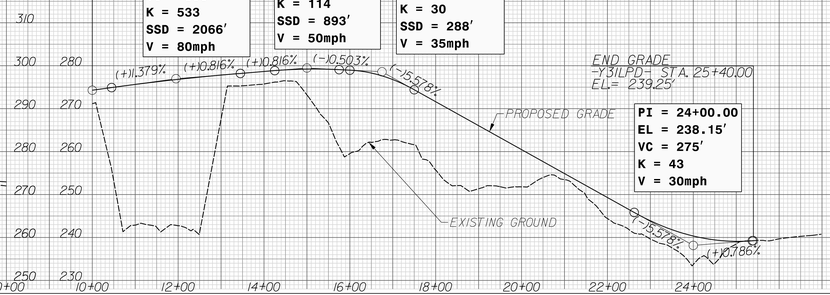
-Y31RPBD-



-Y31RPBD-



-Y31LPD-



SEE ROLL 12 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 33 OF 41

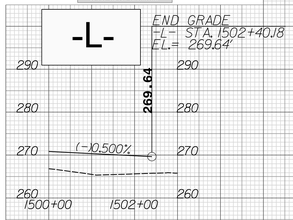
100' 0' 100' 200'
50'

(ENGLISH)

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

-L-

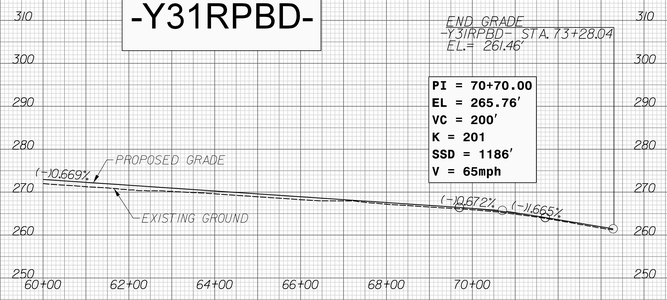
END GRADE
-L- STA. 1502+40.18
EL.= 269.64'



-Y31RPBD-

END GRADE
-Y31RPBD- STA. 73+28.04
EL.= 261.46'

PI = 70+70.00
EL = 265.76'
VC = 200'
K = 201
SSD = 1186'
V = 65mph



SEE ROLL 13 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA Turnpike Authority

COMPLETE 540 Triangle Expressway

PREPARED BY:

LOCHNER
A Jacobs Company
3840 ROSS, PLACE, SUITE 500
RALEIGH, NC 27606

NC FIRM P-0102

ROLL 33 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA Turnpike Authority

COMPLETE 540 Triangle Expressway

PREPARED BY:

LOCHNER
A Jacobs Company
3840 ROSS, PLACE, SUITE 500
RALEIGH, NC 27606

NC FIRM P-0102

ROLL 34 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

ROLL 34 OF 41

100' 0' 100' 200'
50'
(ENGLISH)

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

-Y23-
SR 2700
WHITE OAK RD.

PI = 22+00.00
EL = 354.87'
VC = 410'
K = 85
SSD = 428'
V = 50mph

PI = 31+10.00
EL = 337.34'
VC = 150'
K = 146
V = 60mph

PI = 37+90.00
EL = 331.24'
VC = 400'
K = 129
V = 55mph

(+)2.904%
(−)11.927%
PROPOSED GRADE
EXISTING GROUND
(−)11.927%
(−)10.897%
(−)10.897%

BEGIN GRADE
-Y23- STA. 19+80.00
EL.= 348.49'

-Y23A-

PI = 13+25.00
EL = 321.57'
VC = 110'
K = 21
SSD = 258'
V = 30mph

PI = 15+55.00
EL = 316.25'
VC = 270'
K = 41
V = 30mph

PI = 19+50.00
EL = 333.44'
VC = 80'
K = 34
SSD = 499'
V = 35mph

END GRADE
-Y23A- STA. 19+91.61
EL.= 334.27'

EXISTING GROUND
(+)3.000%
(−)12.313%
(+)4.352%
(+)14.352%
(+)2.000%
PROPOSED GRADE

BEGIN GRADE
-Y23A- STA. 10+07.64
EL.= 312.05'

-Y23B-

PI = 13+50.00
EL = 337.66'
VC = 350'
K = 97
V = 55mph

PI = 20+00.00
EL = 364.73'
VC = 720'
K = 85
SSD = 427'
V = 50mph

BEGIN GRADE
-Y23B- STA. 10+32.98
EL.= 335.86'

(+)14.164%
(−)14.354%
(+)0.568%
PROPOSED GRADE
EXISTING GROUND
(−)14.354%

END GRADE
-Y23B- STA. 30+50.00
EL.= 319.01'

-Y23C-

PI = 13+05.00
EL = 355.53'
VC = 100'
K = 121
SSD = 1351'
V = 50mph

END GRADE
-Y23C- STA. 13+90.00
EL.= 356.98'

(+)1.703%
(+)2.532%
PROPOSED GRADE
EXISTING GROUND

BEGIN GRADE
-Y23C- STA. 10+12.00
EL.= 343.13'

-Y23E-

PI = 10+50.00
EL = 297.70'
VC = 80'
K = 28
V = 40mph

BEGIN GRADE
-Y23E- STA. 10+00.00
EL.= 297.99'

PROPOSED GRADE
END GRADE
-Y23E- STA. 11+04.19
EL.= 398.94'

(−)10.580%
(+)12.288%
EXISTING GROUND

-Y23F-
SAND CASTLE DR.

PI = 10+50.00
EL = 318.54'
VC = 80'
K = 25
SSD = 375'
V = 30mph

PI = 11+45.00
EL = 310.72'
VC = 80'
K = 63
V = 35mph

(−)15.000%
(−)10.224%
16.960%

BEGIN GRADE
-Y23F- STA. 10+09.00
EL.= 320.59'

EXISTING GROUND
END GRADE
-Y23F- STA. 11+85.00
EL.= 307.94'

PROPOSED GRADE

-Y23G-
WHITE OAK RD.

PI = 11+00.00
EL = 348.25'
VC = 80'
K = 11
SSD = 184'
V = 20mph

PROPOSED GRADE
BEGIN GRADE
-Y23G- STA. 10+32.00
EL.= 342.22'

(+)1.356%
(−)8.611%
EXISTING GROUND
END GRADE
-Y23G- STA. 12+00.00
EL.= 349.61'

-Y23LPC-

PI = 11+60.00
EL = 326.89'
VC = 210'
K = 73
SSD = 482'
V = 45mph

PI = 14+00.00
EL = 321.30'
VC = 270'
K = 58
V = 35mph

PI = 18+25.00
EL = 331.15'
VC = 150'
K = 56
V = 35mph

END GRADE
-Y23LPC- STA. 19+11.02
EL.= 335.45'

EXISTING GROUND
BEGIN GRADE
-Y23LPC- STA. 10+00.00
EL.= 326.03'

(+)0.534%
(−)2.326%
(−)2.326%
(+)2.317%
(+)2.317%
(+)5.000%
PROPOSED GRADE

-Y23D-

PI = 12+75.00
EL = 329.93'
VC = 200'
K = 79
V = 45mph

PI = 24+65.00
EL = 312.34'
VC = 150'
K = 69
V = 40mph

PI = 29+25.00
EL = 315.49'
VC = 215'
K = 76
SSD = 490'
V = 45mph

PI = 34+75.00
EL = 303.74'
VC = 260'
K = 65
V = 40mph

PI = 40+75.00
EL = 314.80'
VC = 300'
K = 50
SSD = 329'
V = 40mph

PI = 49+25.00
EL = 279.22'
VC = 440'
K = 64
V = 40mph

PI = 54+35.00
EL = 292.83'
VC = 225'
K = 29
SSD = 253'
V = 35mph

(−)14.000%
(−)11.478%
(−)11.478%
(+)0.686%
(+)0.686%
(−)12.138%
(−)12.138%
(+)11.843%
(+)11.843%
(−)14.185%
(−)14.185%
(+)12.668%
(+)12.668%
(−)15.000%
PROPOSED GRADE
EXISTING GROUND

BEGIN GRADE
-Y23D- STA. 10+32.00
EL.= 339.65'

END GRADE
-Y23D- STA. 55+47.58
EL.= 287.20'

SEE ROLL 3 FOR -L- PLAN VIEW
SEE ROLL 14 FOR -L- PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

ROLL 35 OF 41

100' 0' 100' 200'

50'

(ENGLISH)

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

ROLL 35 OF 41

100' 0' 100' 200'

50'

(ENGLISH)

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

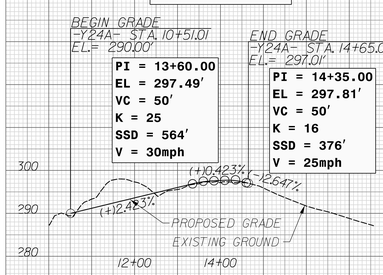
-Y24A-
WALNUT DR.

BEGIN GRADE
-Y24A- STA. 10+51.01
EL.= 290.00'

END GRADE
-Y24A- STA. 14+65.00
EL.= 297.01'

PI = 13+60.00
EL = 297.49'
VC = 50'
K = 25
SSD = 564'
V = 30mph

PI = 14+35.00
EL = 297.81'
VC = 50'
K = 16
SSD = 376'
V = 25mph

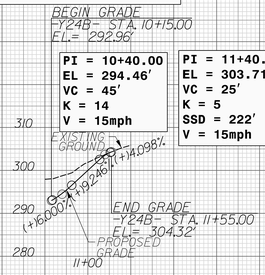


-Y24B-
BUFFALOE ACRES LN.

BEGIN GRADE
-Y24B- STA. 10+15.00
EL.= 292.96'

PI = 10+40.00
EL = 294.46'
VC = 45'
K = 14
V = 15mph

PI = 11+40.00
EL = 303.71'
VC = 25'
K = 5
SSD = 222'
V = 15mph



SEE ROLL 15 FOR PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35511.1.1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA Turnpike Authority

COMPLETE 540 Triangle Expressway

PREPARED BY:

LOCHNER
A.N. DEVELOPMENT
3840 ROSS PLACE, SUITE 350
RALEIGH, NC 27606

NC FIRM P-0339

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35511.1.1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA Turnpike Authority

COMPLETE 540 Triangle Expressway

PREPARED BY:

LOCHNER
A.N. DEVELOPMENT
3840 ROSS PLACE, SUITE 350
RALEIGH, NC 27606

NC FIRM P-0339

ROLL 36 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

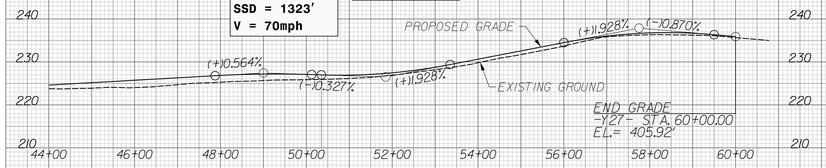
-Y27-

SR 2542
ROCK QUARRY RD.

PI = 49+00.00
EL = 397.43'
VC = 225'
K = 252
SSD = 1323'
V = 70mph

PI = 51+85.00
EL = 396.50'
VC = 300'
K = 133
V = 55mph

PI = 57+75.00
EL = 407.88'
VC = 350'
K = 125
SSD = 561'
V = 55mph



COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESS CORRIDOR

PREPARED BY:

LOCHNER
A Bowman Company
3840 ROSS PLACE, SUITE 350
RALEIGH, NC 27606
NC FIRM
License # P0339

SEE ROLL 16 FOR PLAN VIEW

ROLL 36 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
TRIANGLE EXPRESS CORRIDOR

PREPARED BY:

LOCHNER
A Bowman Company
3840 ROSS PLACE, SUITE 350
RALEIGH, NC 27606
NC FIRM
License # P0339

ROLL 37 OF 41

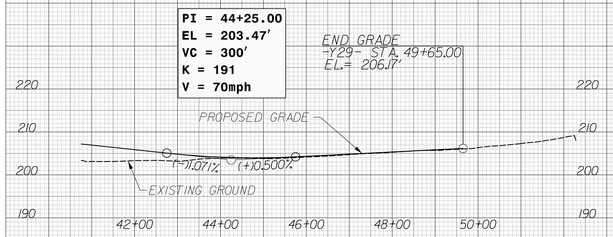
100' 0' 100' 200'
50'

(ENGLISH)

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

-Y29-

SR 2555
AUBURN KNIGHTDALE RD.



COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
Triangle Expressway

PREPARED BY:

LOCHNER
A Tetra Tech Company
3840 ROSS MILL PLACE, SUITE 300
KNIGHTDALE, NC 27545
NC FIRM P-0339

SEE ROLL 17 FOR PLAN VIEW

ROLL 37 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

COMPLETE 540
WAKE AND JOHNSTON COUNTIES

T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35571.1.TA1

PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY

NORTH CAROLINA
Turnpike Authority

COMPLETE 540
Triangle Expressway

PREPARED BY:

LOCHNER
A Tetra Tech Company
3840 ROSS MILL PLACE, SUITE 300
KNIGHTDALE, NC 27545
NC FIRM P-0339

ROLL 38 OF 41

100' 0' 100' 200'
50'

(ENGLISH)

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

ROLL 38 OF 41

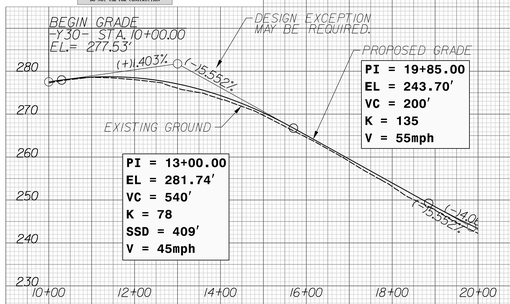
100' 0' 100' 200'
50'

(ENGLISH)

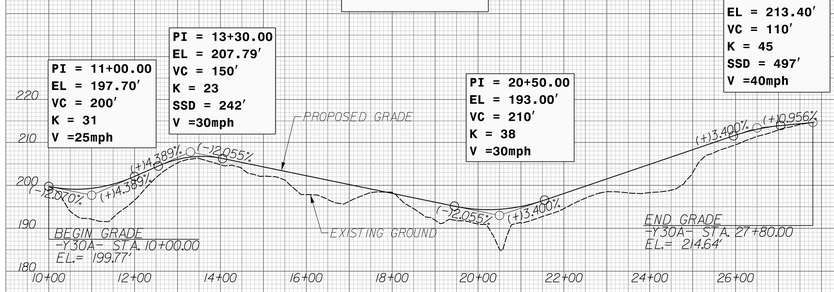
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y30-

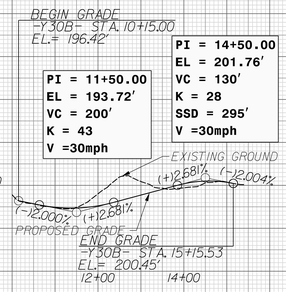
SR 1007
POOLE RD.



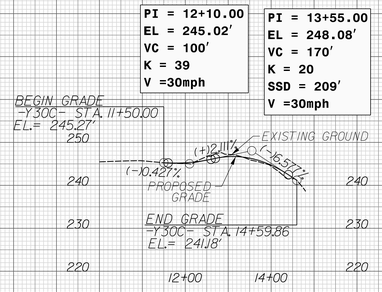
-Y30A-



-Y30B-



-Y30C-



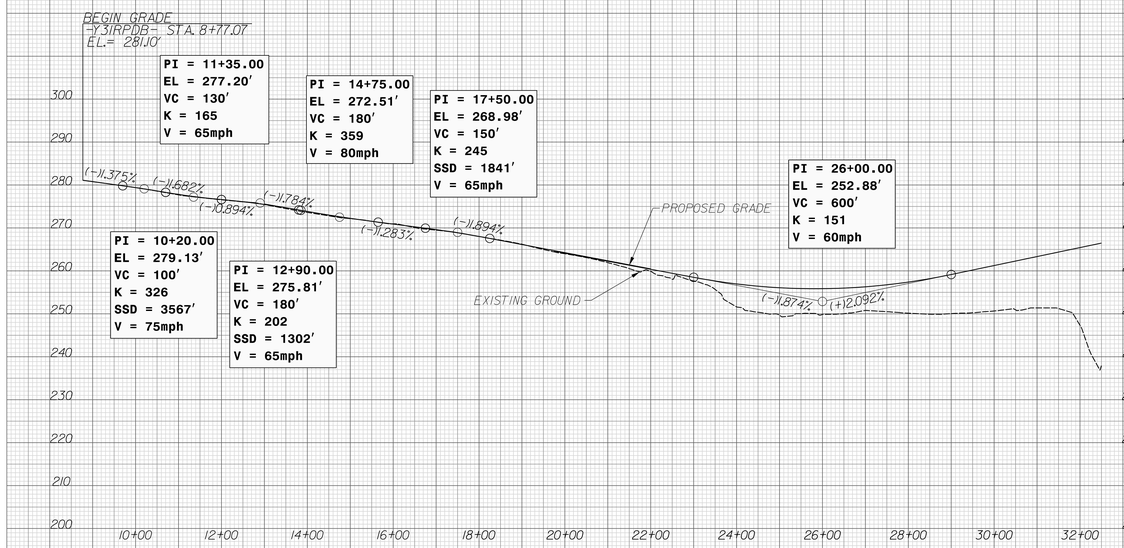
SEE ROLL 11 FOR PLAN VIEW
SEE ROLL 18 FOR PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
1616 DOCK ROAD, SUITE 200
KINSTON, NC 28504
(252) 523-2521
NC FIRM P-0202

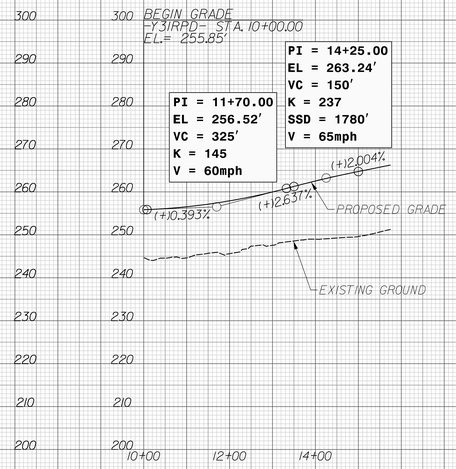
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER
1616 DOCK ROAD, SUITE 200
KINSTON, NC 28504
(252) 523-2521
NC FIRM P-0202

100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

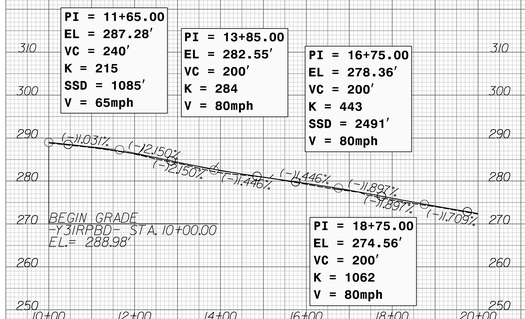
-Y31RPDB-



-Y31RPD-



-Y31RPBD-

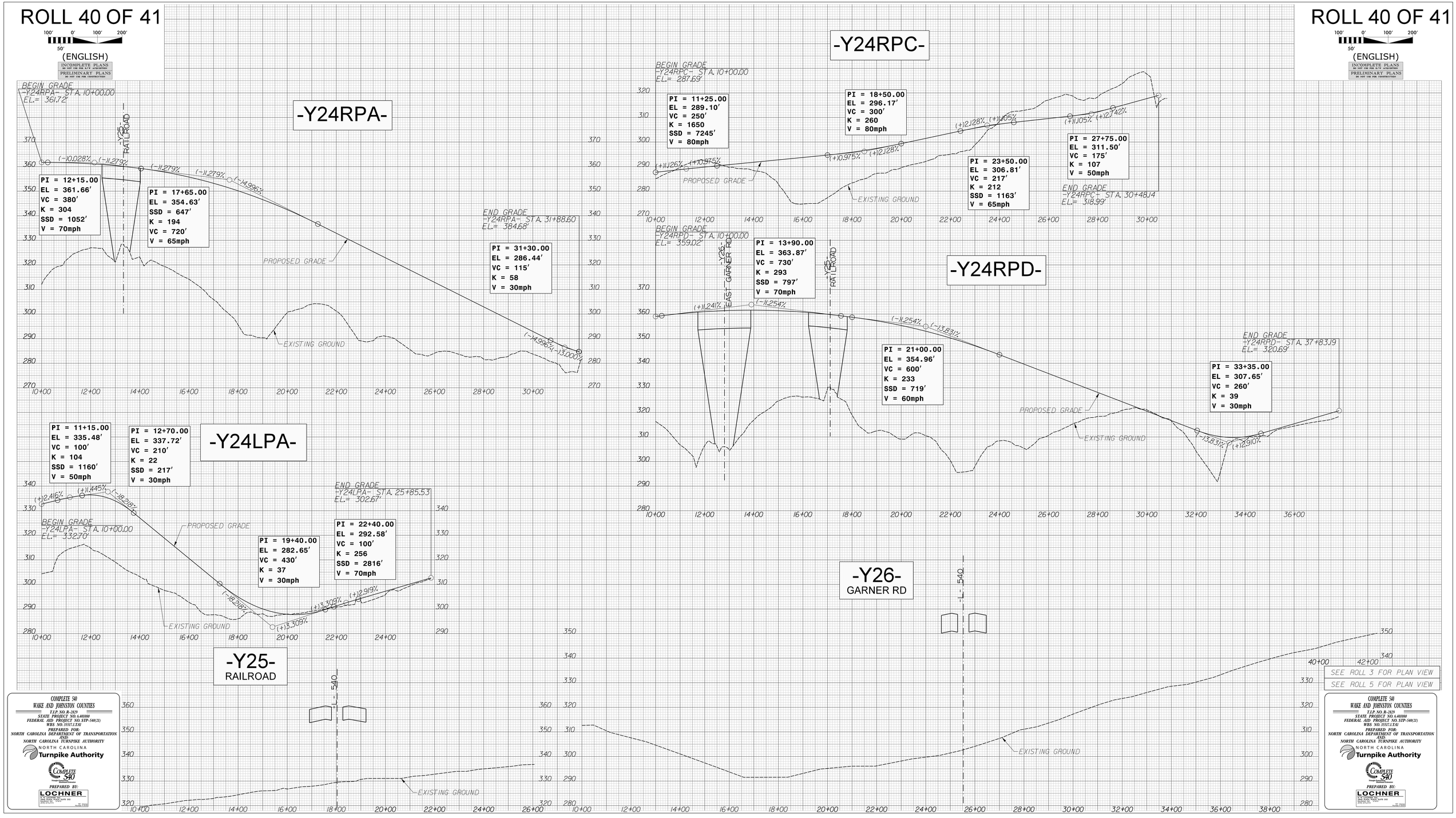


COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER

SEE ROLL 20 FOR PLAN VIEW

ROLL 39 OF 41
100' 0' 100' 200'
50'
(ENGLISH)
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER


(ENGLISH)
INCOMPLETE PLANS
PRELIMINARY PLANS
-Y24RPA-
BEGIN GRADE
-Y24RPA- STA. 10+00.00
EL.= 361.72'
-Y25- RAILROAD
PI = 12+15.00
EL = 361.66'
VC = 380'
K = 304
SSD = 1052'
V = 70mph
PI = 17+65.00
EL = 354.63'
SSD = 647'
K = 194
VC = 720'
V = 65mph
END GRADE
-Y24RPA- STA. 31+88.60
EL.= 384.68'
PI = 31+30.00
EL = 286.44'
VC = 115'
K = 58
V = 30mph
PROPOSED GRADE
EXISTING GROUND
-Y24RPC-
BEGIN GRADE
-Y24RPC- STA. 10+00.00
EL.= 287.69'
PI = 11+25.00
EL = 289.10'
VC = 250'
K = 1650
SSD = 7245'
V = 80mph
PI = 18+50.00
EL = 296.17'
VC = 300'
K = 260
V = 80mph
PI = 23+50.00
EL = 306.81'
VC = 217'
K = 212
SSD = 1163'
V = 65mph
PI = 27+75.00
EL = 311.50'
VC = 175'
K = 107
V = 50mph
END GRADE
-Y24RPC- STA. 30+48.14
EL.= 318.99'
-Y24RPD-
BEGIN GRADE
-Y24RPD- STA. 10+00.00
EL.= 359.02'
-Y26- EAST GARNER RD
-Y25- RAILROAD
PI = 13+90.00
EL = 363.87'
VC = 730'
K = 293
SSD = 797'
V = 70mph
PI = 21+00.00
EL = 354.96'
VC = 600'
K = 233
SSD = 719'
V = 60mph
END GRADE
-Y24RPD- STA. 37+83.19
EL.= 320.69'
PI = 33+35.00
EL = 307.65'
VC = 260'
K = 39
V = 30mph
-Y24LPA-
PI = 11+15.00
EL = 335.48'
VC = 100'
K = 104
SSD = 1160'
V = 50mph
PI = 12+70.00
EL = 337.72'
VC = 210'
K = 22
SSD = 217'
V = 30mph
BEGIN GRADE
-Y24LPA- STA. 10+00.00
EL.= 332.70'
END GRADE
-Y24LPA- STA. 25+85.53
EL.= 302.67'
PI = 19+40.00
EL = 282.65'
VC = 430'
K = 37
V = 30mph
PI = 22+40.00
EL = 292.58'
VC = 100'
K = 256
SSD = 2816'
V = 70mph
-Y25-
RAILROAD
-Y26-
GARNER RD
-L- 540
SEE ROLL 3 FOR PLAN VIEW
SEE ROLL 5 FOR PLAN VIEW
COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35517.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND:
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA
Turnpike Authority
PREPARED BY:
LOCHNER

ROLL 40 OF 41

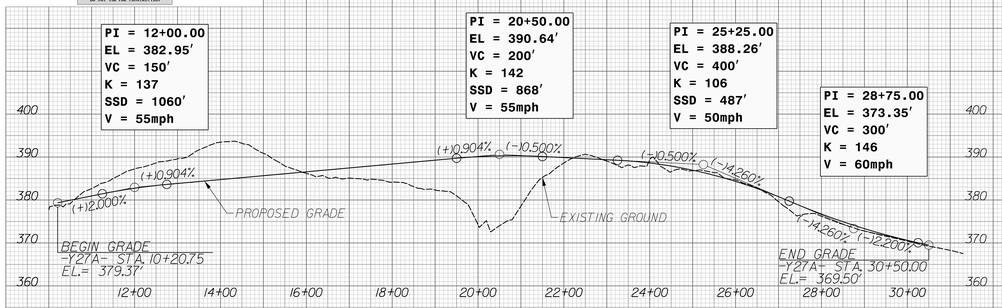
ROLL 41 OF 41

100' 0' 100' 200'
50'

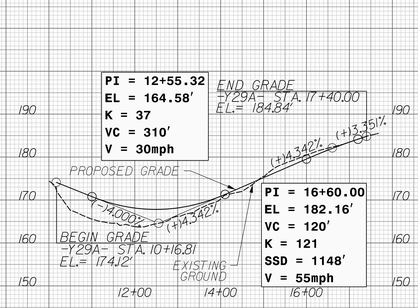
(ENGLISH)

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

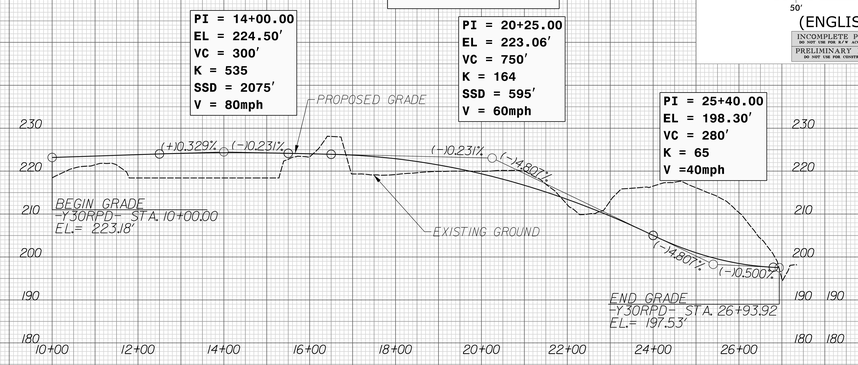
-Y27A-
SR 5204
OLD BAUCOM RD.



-Y29A-
SR 2555
AUBURN KNIGHTDALE RD.



-Y30RPD-



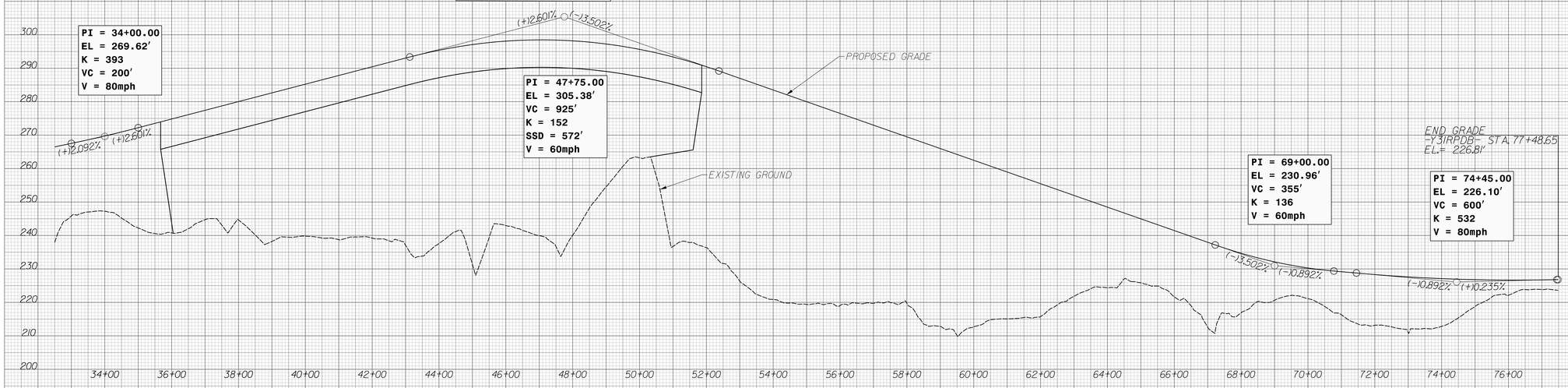
ROLL 41 OF 41

100' 0' 100' 200'
50'

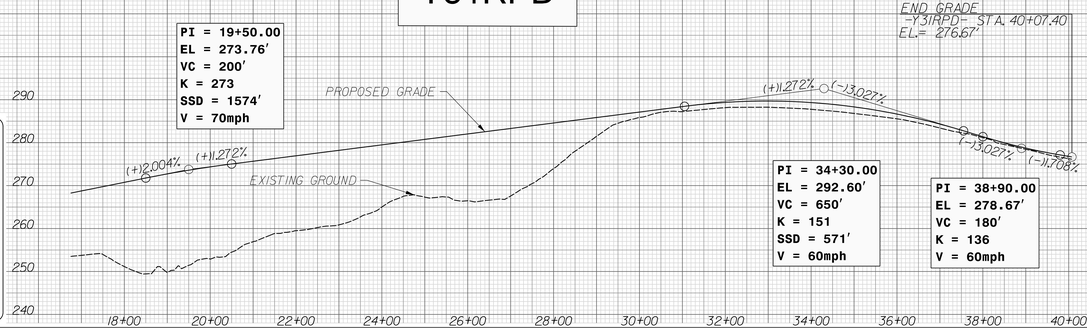
(ENGLISH)

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

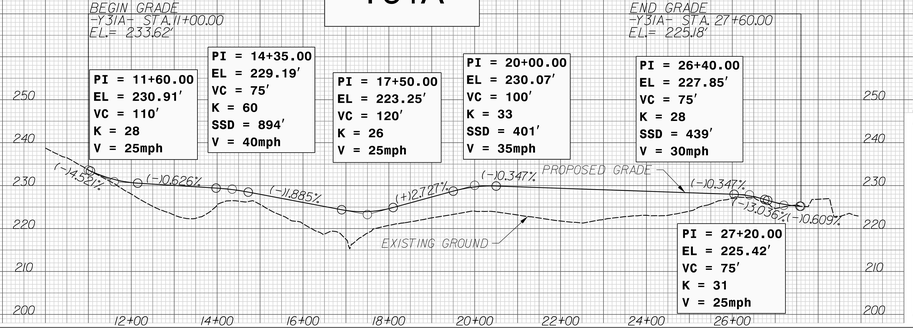
-Y31RPDB-



-Y31RPD-



-Y31A-



SEE ROLL 6 FOR PLAN VIEW
SEE ROLL 9 FOR PLAN VIEW
SEE ROLL 11 FOR PLAN VIEW
SEE ROLL 12 FOR PLAN VIEW

COMPLETE 540
WAKE AND JOHNSTON COUNTIES
T.I.P. NO. R-2829
STATE PROJECT NO. 6.401080
FEDERAL AID PROJECT NO. STP-540(21)
WBS NO. 35521.1.TA1
PREPARED FOR:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
AND
NORTH CAROLINA TURNPIKE AUTHORITY
NORTH CAROLINA Turnpike Authority
COMPLETE 540
PREPARED BY:
LOCHNER