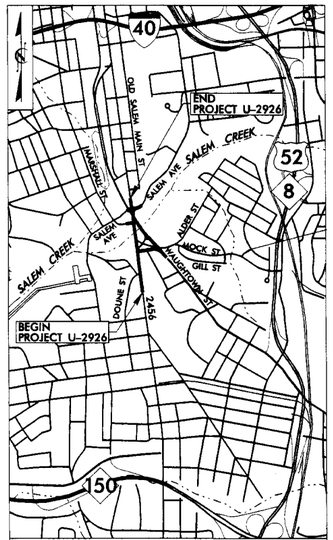
FORSYTH CO.,NC FEE:$ 36.00
PRESENTED & RECORDED: 07/03/2003 09:31AM
DIXIE C. WOOD REGISTER OF DEEDS BY:DAVISP
BK 1 P 99 - P 707

6/24/99

U-2926

PROJECT: 9.8091881

See Sheet 1-A For Index of Sheets



VICINITY MAP (WINSTON-SALEM)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2926	1	

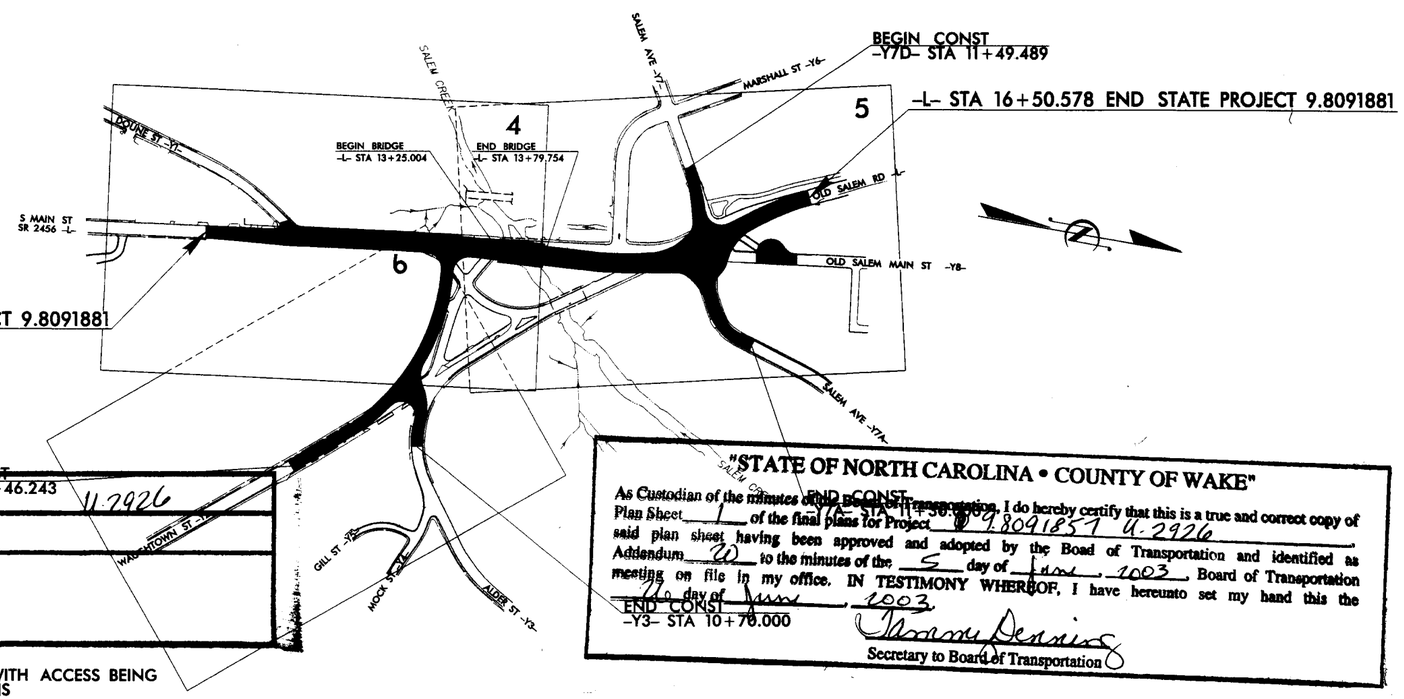
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
9.8091857		PE, UTIL. & ROW
9.8091881		CONST

METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

LOCATION: *WINSTON-SALEM REALIGN INTERSECTIONS OF SR 2456 (S MAIN ST), WAUGHTOWN ST, ALDER ST AND SALEM AVE. CONSTRUCT ROUNDABOUT AT SR 2456 AND SALEM AVE*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES*



PROJECT	9.8091857 U-2926
PRIMARY ROAD	SR 2456
CONNECTING ROADS	

THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THOSE POINTS SHOWN ON THE PLANS

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 1 of the final plans for Project 9.8091857 U-2926, said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 20 to the minutes of the 5 day of June, 2003, Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 20 day of June, 2003.

Tammy Dessing
Secretary to Board of Transportation

GRAPHIC SCALES

5 0 10 PLANS

5 0 10 PROFILE (HORIZONTAL)

1 0 2 PROFILE (VERTICAL)

DESIGN DATA

ADT 2000 = 8900
ADT 2025 = 19,000
DHV = 10 %
D = 60 %
T = 3 % *
V = 65 km/h

* TTST 1 % DUAL 2 %

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT 9.8091881 = 0.556 km
LENGTH STRUCTURE STATE PROJECT 9.8091881 = 0.055 km

TOTAL LENGTH STATE PROJECT 9.8091881 = 0.611 km

Prepared In the Office of:

DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh, NC 27610

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: APRIL 30, 2001

LETTING DATE: MAY 20, 2003

J. S. GOODNIGHT, PE
PROJECT ENGINEER

L. T. OLIVER
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER
RANDALL C. HINSHAW
SIGNATURE: 9-26-02

ROADWAY DESIGN ENGINEER
PROFESSIONAL SEAL 14493 ENGINEER
JAMES W. ROBINSON, P.E.
SIGNATURE: 9-27-02

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

D. M. Barbour, P.E.
STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR DATE

03-SEP-2002 16:40
C:\pwworkdir\pw2\d0045811\
mrwaskiewicz

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
U-2926	1-B

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

ROADS & RELATED ITEMS

Edge of Pavement
Curb
Prop. Slope Stakes Cut — C
Prop. Slope Stakes Fill — F
Prop. Woven Wire Fence
Prop. Chain Link Fence
Prop. Barbed Wire Fence
Prop. Wheelchair Ramp — WCR
Exist. Guardrail
Prop. Guardrail
Equality Symbol
Pavement Removal

RIGHT OF WAY

Baseline Control Point
Existing Right of Way Marker
Exist. Right of Way Line w/Marker
Prop. Right of Way Line with Proposed R/W marker (Iron Pin & Cap)
Prop. Right of Way Line with Proposed (Concrete or Granite) R/w Marker
Exist. Control of Access Line — C/A
Prop. Control of Access Line — C/A
Exist. Easement Line — E
Prop. Temp. Construction Easement Line — E
Prop. Temp. Drainage Easement Line — TDE
Prop. Perm. Drainage Easement Line — PDE

HYDROLOGY

Stream or Body of Water
Flow Arrow
Disappearing Stream
Spring
Swamp Marsh
Shoreline
Falls, Rapids
Prop Lateral, Tail, Head Ditches — FLOW

STRUCTURES

MAJOR
Bridge, Tunnel, or Box Culvert — CONC
Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR
Head & End Wall — CONC HW
Pipe Culvert
Footbridge
Drainage Boxes — CB
Paved Ditch Gutter

UTILITIES

Exist. Pole
Exist. Power Pole
Prop. Power Pole
Exist. Telephone Pole
Prop. Telephone Pole
Exist. Joint Use Pole
Prop. Joint Use Pole
Telephone Pedestal — T
Cable TV Pedestal — C
Hydrant
Satellite Dish
Exist. Water Valve
Sewer Clean Out
Power Manhole — P
Telephone Booth
Water Manhole — W
Light Pole
H-Frame Pole
Power Line Tower
Pole with Base
Gas Valve
Gas Meter
Telephone Manhole — T
Power Transformer
Sanitary Sewer Manhole — S
Storm Sewer Manhole
Tank; Water, Gas, Oil
Water Tank With Legs
Traffic Signal Junction Box — S
Fiber Optic Splice Box — F
Television or Radio Tower
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement — TS — TS

Recorded Water Line — W — W
Designated Water Line (S.U.E.*) — W — W
Sanitary Sewer — SS — SS
Recorded Sanitary Sewer Force Main — FSS — FSS
Designated Sanitary Sewer Force Main(S.U.E.*) — FSS — FSS
Recorded Gas Line — G — G
Designated Gas Line (S.U.E.*) — G — G
Storm Sewer — S — S
Recorded Power Line — P — P
Designated Power Line (S.U.E.*) — P — P
Recorded Telephone Cable — T — T
Designated Telephone Cable (S.U.E.*) — T — T
Recorded U/G Telephone Conduit — TC — TC
Designated U/G Telephone Conduit (S.U.E.*) — TC — TC
Unknown Utility (S.U.E.*) — ?UTL — ?UTL
Recorded Television Cable — TV — TV
Designated Television Cable (S.U.E.*) — TV — TV
Recorded Fiber Optics Cable — FO — FO
Designated Fiber Optics Cable (S.U.E.*) — FO — FO
Exist. Water Meter
U/G Test Hole (S.U.E.*)
Abandoned According to U/G Record — ATTUR
End of Information — E.O.I.

BOUNDARIES & PROPERTIES

State Line
County Line
Township Line
City Line
Reservation Line
Property Line
Property Line Symbol — PL
Exist. Iron Pin — EIP
Property Corner
Property Monument — ECM
Property Number — 123
Parcel Number — 6
Fence Line — WW & ISBW
Existing Wetland Boundaries — WLB
Proposed Wetland Boundaries — WLB
Existing Endangered Animal Boundaries — EAB
Existing Endangered Plant Boundaries — EPB

BUILDINGS & OTHER CULTURE

Buildings
Foundations
Area Outline
Gate
Gas Pump Vent or U/G Tank Cap
Church
School
Park
Cemetery
Dam
Sign
Well
Small Mine
Swimming Pool

TOPOGRAPHY

Loose Surface
Hard Surface
Change in Road Surface
Curb
Right of Way Symbol — R/W
Guard Post — GP
Paved Walk
Bridge
Box Culvert or Tunnel
Ferry
Culvert
Footbridge
Trail, Footpath
Light House

VEGETATION

Single Tree
Single Shrub
Hedge
Woods Line
Orchard
Vineyard — VINEYARD

RAILROADS

Standard Gauge — CSX TRANSPORTATION
RR Signal Milepost — MILEPOST 35
Switch — SWITCH

STATE OF NORTH CAROLINA * COUNTY OF WAKE

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 1-B of the final plans for Project 8091857 U-2926 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 20 to the minutes of the 5 day of June, 2003, meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 26 day of June, 2003.

Secretary to Board of Transportation

revised 2/25/97

26-AUG-2008 08:20
MPlessinger in NORSHARE

RD04S01C,9/4/02,R:\proj\rowparcels.xls

PROJ. REFERENCE NO.	SHEET NO.
U-2	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	STATE OF NORTH CAROLINA
2	4	HERITAGE OPERATING, LP
3	4	THOMAS & VENAWAY BLAKE
4	4	SUN PRINTING INC.
5	4	MARY W. BAILEY, HEIR
6	4	TUWELLA, LLC
7	4	C.W. MYERS TRADING POST INC.
8	4	ATHENE M. DAY
9	4	WALTER LEONARD, ETAL.
10	4	CITY OF WINSTON SALEM
11	4	DUKE POWER CO.
12	4&5	CITY OF WINSTON SALEM
13	4	DUKE POWER CO.
14	4&5	DUKE POWER CO.
15	5	BENJAMIN BRODIE CATLETT
16	5	CHARLES G. LONG
17	4&5&6	CITY OF WINSTON SALEM
18	5	CITY OF WINSTON SALEM
19	5	ADA F. MICKEY
20	5	OLD SALEM INC.
21	5	CITY OF WINSTON SALEM
22	5	TUWELLA, LLC.
23	5	OLD SALEM INC.
24	4&6	N.C. SCHOOL OF THE ARTS
25	6	HOAN MOO AND HELEN YOO
26	6	ARCHIE G. & FRANCES J. FOLTZ
27	6	JOHN W. DAILY
28	6	HOAN MOO AND HELEN YOO
901	5	W.T. & CORNELIA D. SKIDMORE

PARCEL No.	SHEET No.	PROPERTY OWNER NAME

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 32 of the final plans for Project 9.8041857 U-2826 Transportation and identified as said plan sheet having been approved and adopted by the Boad of 2003, Board of Transportation Addendum 20 to the minutes of the 5 day of June meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 24 day of June, 2003.

Secretary to Board of Transportation

REVISIONS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "WSSU"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 260150.000(m) EASTING: 699122.213(m)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999420
THE N.C. LAMBERT GRID BEARING
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"WSSU" TO -L- STATION 10+40.000 IS
S 44 32' 16.72" W 1747.3601m
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 29

PROJECT REFERENCE NO.	SHEET NO.
U-2926	4
R/W SHEET NO.	

METRIC

5 0 10

CONST. REV.

R/W REV.

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 14493 ENGINEER
JAMES STANFORD ROCKERSHOUSE, III
9-1-02

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19802 ENGINEER
RANDALL C. HENDRICK
9-26-02

SEE SHEET 7 FOR -L- PROFILE
SEE SHEET 8 FOR -Y1- PROFILE
SEE SHEET 8 FOR -Y2A- PROFILE
FOR STRUCTURE SEE STRUCTURE PLAN SHEETS S1 - S36

-Y2A-
PI Sta 13+21.692
Δ = 56° 02' 52.0" (LT)
L = 195.644
T = 106.449
R = 200.000
SE = 0.06

-L-
PI Sta 12+60.000
Δ = 3° 55' 33.2" (RT)
L = 68.520
T = 34.273
R = 1,000.000
SE = 0.025

"STATE OF NORTH CAROLINA COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that the foregoing is a true and correct copy of the minutes of the meeting of the Board of Transportation and identified as Attachment 20 of the minutes of the 5 day of June, 2003, Board of Transportation Meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 10 day of June, 2003.

Secretary to Board of Transportation

9 8091857 U-2926

NAD 83

-Y1- POT Sta. 10+48.015
-L- POT Sta. 10+00.000=
-L- POT Sta. 11+32.515
-L- PC Sta. 12+25.727 LA
-L- Sta. 10+40
BEGIN PROJECT U-2926
BEGIN CONST.
-L- POT Sta. 10+00.000
BEGIN BRIDGE
-L- ST A 13+25.004
BEGIN APPROACH SLAB
-L- ST A 13+21.696
-L- PC Sta. 12+79.372=
-Y2A- POT Sta. 14+29.644
-Y2A- PT Sta. 14+10.887
-L- PT Sta. 12+94.247
MATCHLINE -L- STA 13+50
SEE SHEET 5
MATCHLINE -Y2A- STA 13+40
SEE SHEET 6

LEGEND

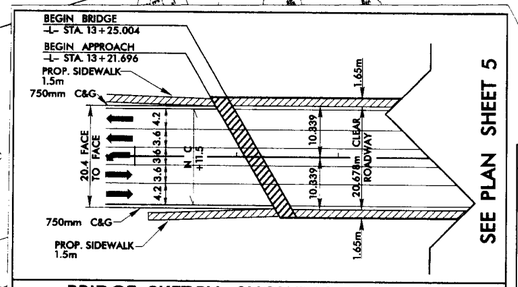
PAVEMENT TO BE REMOVED

PROPOSED SIDEWALKS

DETAIL A
BASE DITCH
(Not to Scale)

Natural Ground — Natural Ground
Filter Fabric
Min. D = 0.7 m
Max. d = 0.7 m
B = 1.0 m

Type of Liner: CL 'B' RIP RAP
FROM STA. 13+22 TO 13+53 -L- RT
EST DDE = 200 CM
EST SM MTNS CL B RIPRAP W/186 SM FILTER FABRIC



SEE PLAN SHEET 5

BRIDGE SKETCH SHOWING PAVEMENT /BRIDGE RELATIONSHIP

TRAFFIC DIAGRAM

1997 ADT
2025 ADT

-L-
SR 2456

7100 / 9400 — 14800 / 19000
400 / 500 — 8100 / 10100
8500 / 10600

-Y2A-
WAUGHTOWN ST

17-SEP-2002 DGN
MPHiggins AT ROADWAY

REVISIONS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
U-2926	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 14493 ENGINEER — JAMES STAFFORD BOOKNIGHT, JR. — 10-29-02

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER — RANDALL C. HINES — 10-29-02

5 0 10

CONST. REV.

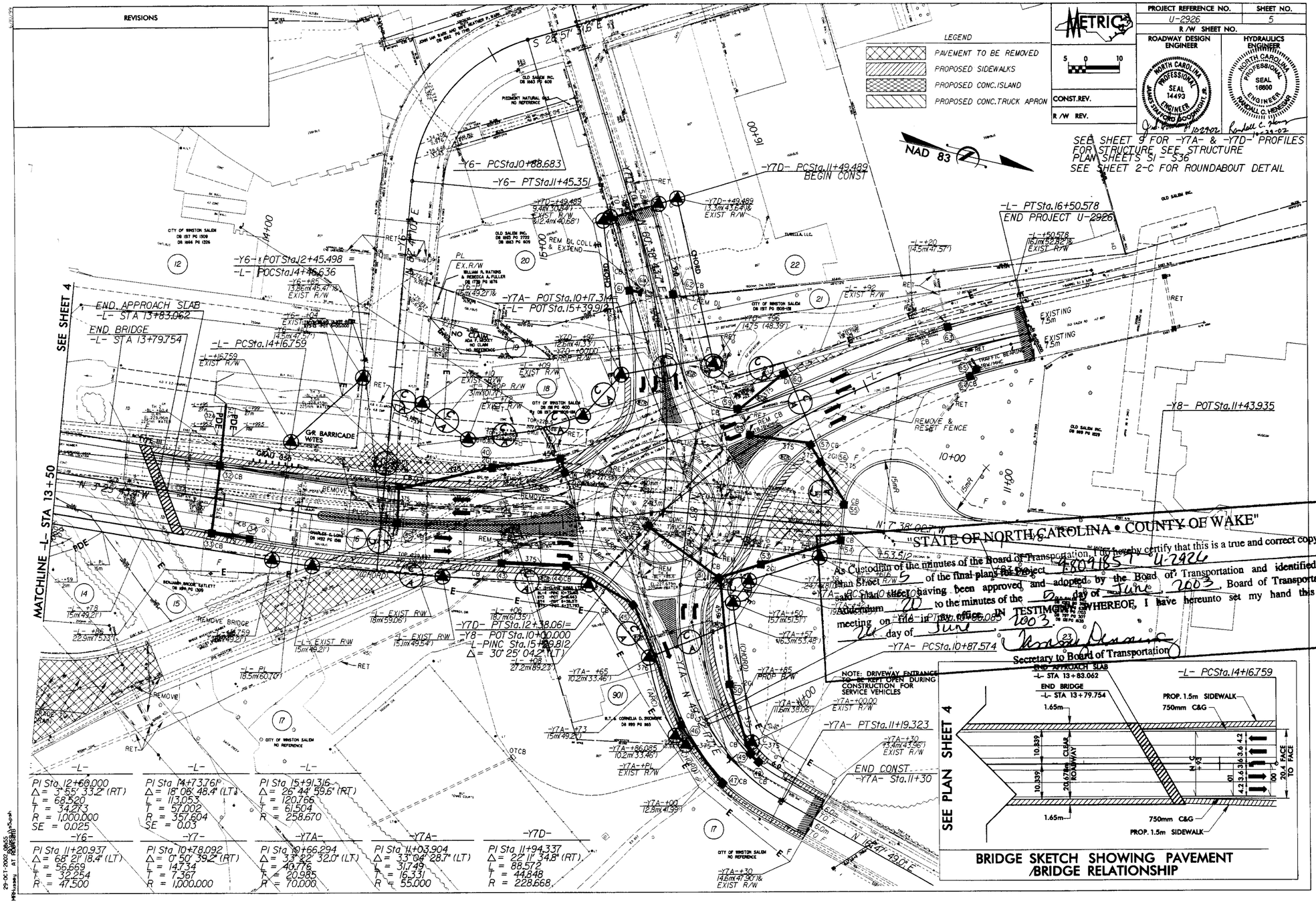
R/W REV.

LEGEND

- PAVEMENT TO BE REMOVED
- PROPOSED SIDEWALKS
- PROPOSED CONC. ISLAND
- PROPOSED CONC. TRUCK APRON

NAD 83

SEE SHEET 9 FOR -Y7A- & -Y7D- PROFILES
FOR STRUCTURE SEE STRUCTURE
PLAN SHEETS S1 - S36
SEE SHEET 2-C FOR ROUNDABOUT DETAIL



"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 5 of the final plans for Project B-4071B, U-2926 having been approved and adopted by the Board of Transportation and identified as addendum 20 to the minutes of the 5th day of June, 2003, Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 24 day of June, 2003.

Secretary to Board of Transportation

-L-	-L-	-L-
PI Sta. 12+68.000	PI Sta. 14+73.76	PI Sta. 15+91.36
Δ= 3° 55' 33.2" (RT)	Δ= 18° 06' 48.4" (LT)	Δ= 26° 44' 59.6" (RT)
L = 68.520	L = 113.053	L = 120.766
T = 34.273	T = 57.002	T = 61.504
R = 1,000.000	R = 357.604	R = 258.670
SE = 0.025	SE = 0.03	

-Y6-	-Y7-	-Y7A-	-Y7A-	-Y7D-
PI Sta. 11+20.937	PI Sta. 10+78.092	PI Sta. 10+66.294	PI Sta. 11+03.904	PI Sta. 11+94.337
Δ= 68° 21' 18.4" (LT)	Δ= 0° 50' 39.2" (RT)	Δ= 33° 22' 32.0" (LT)	Δ= 33° 04' 28.7" (LT)	Δ= 22° 11' 34.8" (RT)
L = 56.669	L = 14.734	L = 40.776	L = 31.749	L = 88.572
T = 32.254	T = 7.367	T = 20.985	T = 16.331	T = 44.848
R = 47.500	R = 1,000.000	R = 70.000	R = 55.000	R = 228.668

BRIDGE SKETCH SHOWING PAVEMENT /BRIDGE RELATIONSHIP

29-OCT-2002 08:55
MPRussell AT R:\Roadway\Proj\Sheets

REVISIONS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
U-2926	6
R/W SHEET NO.	

ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 14493 ENGINEER JAMES STANFORD WRIGHT, JR. — 9-17-02

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENDRICKS — 9-25-02

CONST. REV.

R/W REV.

LEGEND

- PAVEMENT TO BE REMOVED
- PROPOSED SIDEWALKS
- PROPOSED PAINT STRIPING

SEE SHEET 8 FOR -Y2A- PROFILE
SEE SHEET 8 FOR -Y3A- PROFILE
SEE SHEET 8 FOR -Y4- PROFILE
SEE SHEET 8 FOR -Y5- PROFILE

NAD 83

-Y2- POT Sta. 10+00.000

-Y2- PC Sta. 11+46.659

-Y2- PT Sta. 11+69.790

-Y2A- POC Sta. 12+95.617 =
-Y3A- PC Sta. 9+96.999

-Y2- POT Sta. 12+15.243 LB =
-Y2A- PC Sta. 12+15.243 LA

BEGIN CONST
-Y2- Sta. 11+46.243

-Y2-+58.715 EXIST R/W

-Y2A-+21.000 (15m 49.21')

-Y2A-+15.243 (15m 49.21')

-Y2A-+83.000 (15m 49.21')

46.325m UNIFORM TRANSITION

MATCHLINE -Y2A- STA 13+40

SEE SHEET 4

-Y2A-+26.4 EXIST R/W

PAINT STRIPING

RET SYSTEM

N 39° 24' 56.9" W

N 41° 18' 27.8" W

ADJUST TOP OF MH COVER

REPLACE MH/W JBW/MHC-ED

-Y2A-+40.000 (42.2m 46.59')

-Y2A-+85.8 EXIST R/W

PROP R/W (42.2m 46.59')

-Y3-+52.8 EXIST R/W

-Y3-+60.000 (2.2m 40')

-Y3-+72.000 EXIST R/W

-Y2-+40.000 EXIST R/W

-Y2A-+20.000 (13.7m 44.95')

-Y2-+46 (13m 42.85')

-Y2- POT Sta. 13+31.563

~~-Y2- POT Sta. 13+13.832 =~~
~~-Y3- POT Sta. 10+00.000~~

-Y3A-+28.491 EXIST R/W

-Y3A-+34.5 EXIST R/W

-Y3A-+40.000 (13.7m 44.95')

-Y3-+70.000 (12.5m 41.34')

END CONST
-Y3- Sta. 10+70.000

-Y3-+80.000 EXIST R/W

~~-Y3- PC Sta. 10+33.713~~

-Y3A- PRC Sta. 10+44.511 LB =
-Y3- POC Sta. 10+44.511 LA

-Y3- PT Sta. 11+08.886

-Y3- POT Sta. 11+24.072 =
-Y4- POT Sta. 10+58.516

-Y4- PT Sta. 10+32.358

N 25° 19' 24.0" W

-Y5- POT Sta. 10+00.000

-Y5- PC Sta. 10+04.562

-Y5- PT Sta. 10+38.036

N 17° 17' 52.3" E

N 78° 12' 59.2" W

N 53° 41' 05.0" E

N 64° 43' 50.9" W

-Y4- POT Sta. 10+16.755 =
-Y5- POT Sta. 10+52.829

-Y4- PC Sta. 10+11.175

-Y4- POT Sta. 10+00.000

RET SYSTEM

REM CB

PLUG

RET SYS

RET AIN

STATE OF NORTH CAROLINA DB 1634 PG 334

WEAVER PLUMBING CO. INC. DB 1487 PG 346

MARTY H. & W.C. CALTON DB 970 PG 2663

N.C. SCHOOL OF THE ARTS DB 1482 PG 75

CITY OF WINSTON SALEM NO REFERENCE

WINSTON SALEM HOUSING AUTHORITY NO REFERENCE

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 6 of the final plans for Project 48091852 U-2926, said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 20 to the minutes of the 5 day of June 2003, Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 26 day of June 2003.

Secretary to Board of Transportation

-Y2-	-Y3-	-Y3A-
PI Sta 11+58.226	PI Sta 10+73.649	PI Sta 10+22.720
Δ = 1° 53' 36.0" (LT)	Δ = 47° 51' 23.8" (LT)	Δ = 54° 26' 39.7" (RT)
L = 23.131	L = 75.193	L = 47.512
T = 11.567	T = 39.936	T = 25.721
R = 700.000	R = 90.000	R = 50.000

-Y4-	-Y5-	-Y2A-
PI Sta 10+21.816	PI Sta 10+22.116	PI Sta 13+21.692
Δ = 13° 29' 08.3" (LT)	Δ = 42° 37' 16.3" (RT)	Δ = 56° 02' 52.0" (LT)
L = 21.183	L = 33.475	L = 195.644
T = 10.641	T = 17.554	T = 106.449
R = 90.000	R = 45.000	R = 200.000

TRAFFIC DIAGRAM

1997 ADT
2025 ADT

-Y2A- WAUGHTOWN ST.

7800 / 9600 — 8500 / 10600

500 / 600 — 1200 / 1600

1700 / 2200

-Y3A- ALSER ST.

04-SEP-2002 14:09
MPRUSSING AT MPRUSSING\U-2926.dgn