

09/09/99

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

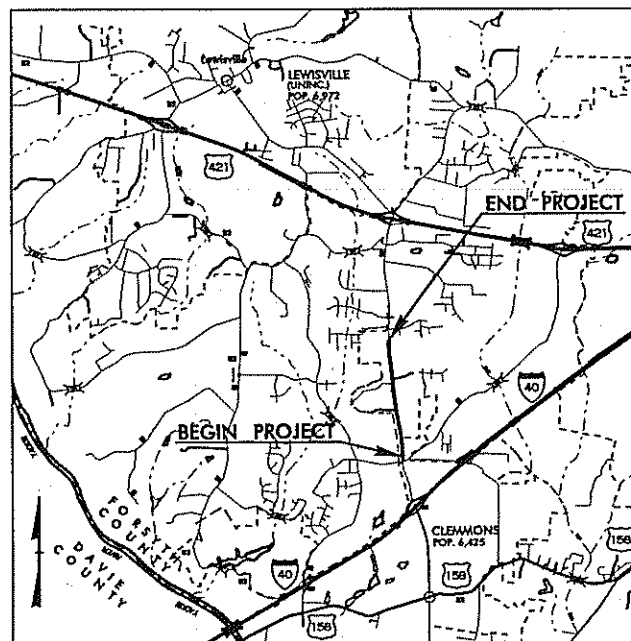
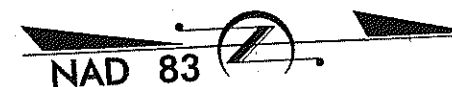
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

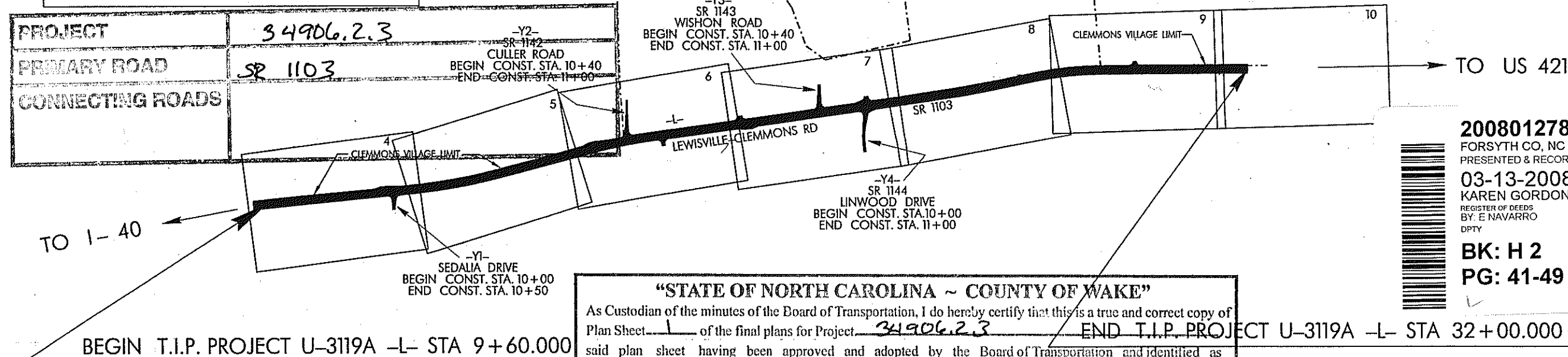
LOCATION: WINSTON-SALEM SR 1103 (LEWISVILLE-
CLEMMONS RD.) FROM SR 1891 (PEACE
HAVEN RD.) TO SR 3580 (FOREST OAKS DR.)
TYPE OF WORK: DRAINAGE, GRADING, PAVING,
WIDENING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3119A	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34906.1.1	STP-1103(6)	P.E.	
34906.2.3	STP-1103(18)	R / W	
34906.3.4	STP-1103(18)	CONST.	

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



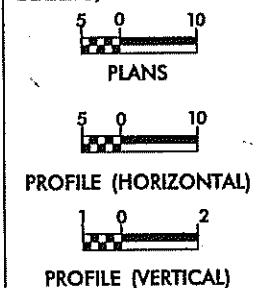
VICINITY MAP



2008012781 0
FORSYTH CO, NC FEE \$61.00
PRESENTED & RECORDED
03-13-2008 12:03 PM
KAREN GORDON
REGISTER OF DEEDS
BY: E NAVARRO
DPTY
BK: H 2
PG: 41-49

"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 34906.2.3 END T.I.P. PROJECT U-3119A -L- STA 32+00.000 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008
Ammy Danning
Secretary to Board of Transportation

GRAPHIC SCALES



DESIGN DATA

ADT 2005 = 19000
ADT 2025 = 33000
DHV = 9 %
D = 60 %
T = 6 % *
V = 80 km/h
* TTST 2 % DUAL 4 %

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U3119A = 2.240 km
TOTAL LENGTH TIP PROJECT U-3119A = 2.240 km

Prepared In the Office of:
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT OFFICE
375 SILAS CREEK PARKWAY, WINSTON-SALEM, NC 27127
2002 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: OCTOBER 15, 2004
LETTING DATE: FEBRUARY 13, 2008
Mike Shaffner, PE
DIVISION OPERATION ENGINEER
Diane K. Hampton, PE
DIVISION DESIGN/CONSTRUCT ENGINEER

HYDRAULICS, ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20870
12-5-07
J. Bren Ament, PE, PLS
SIGNATURE: *J. Bren Ament*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
at millan
STATE DESIGN ENGINEER
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ADMINISTRATOR
DATE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



PROJ. REFERENCE NO.
U-3119A

SHEET NO.
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	XXXX

RIGHT OF WAY

Baseline Control Point	◆
Existing Right of Way Marker	△
Exist. Right of Way Line wMarker	△
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	⊙
Prop. Control of Access Line	⊙
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	---

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

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

BOUNDARIES & PROPERTIES

State Line	---
County Line	---
Township Line	---
City Line	---
Reservation Line	---
Property Line	---
Property Line Symbol	---
Exist. Iron Pin	⊕
Property Corner	⊕
Property Monument	⊕
Property Number	⊕
Parcel Number	⊕
Fence Line	---
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 UG Tank Cap	---
Church	---
School	---
Park	---
Cemetery	---
Dam	---
Sign	---
Well	---
Small Mine	---
Swimming Pool	---

TOPOGRAPHY

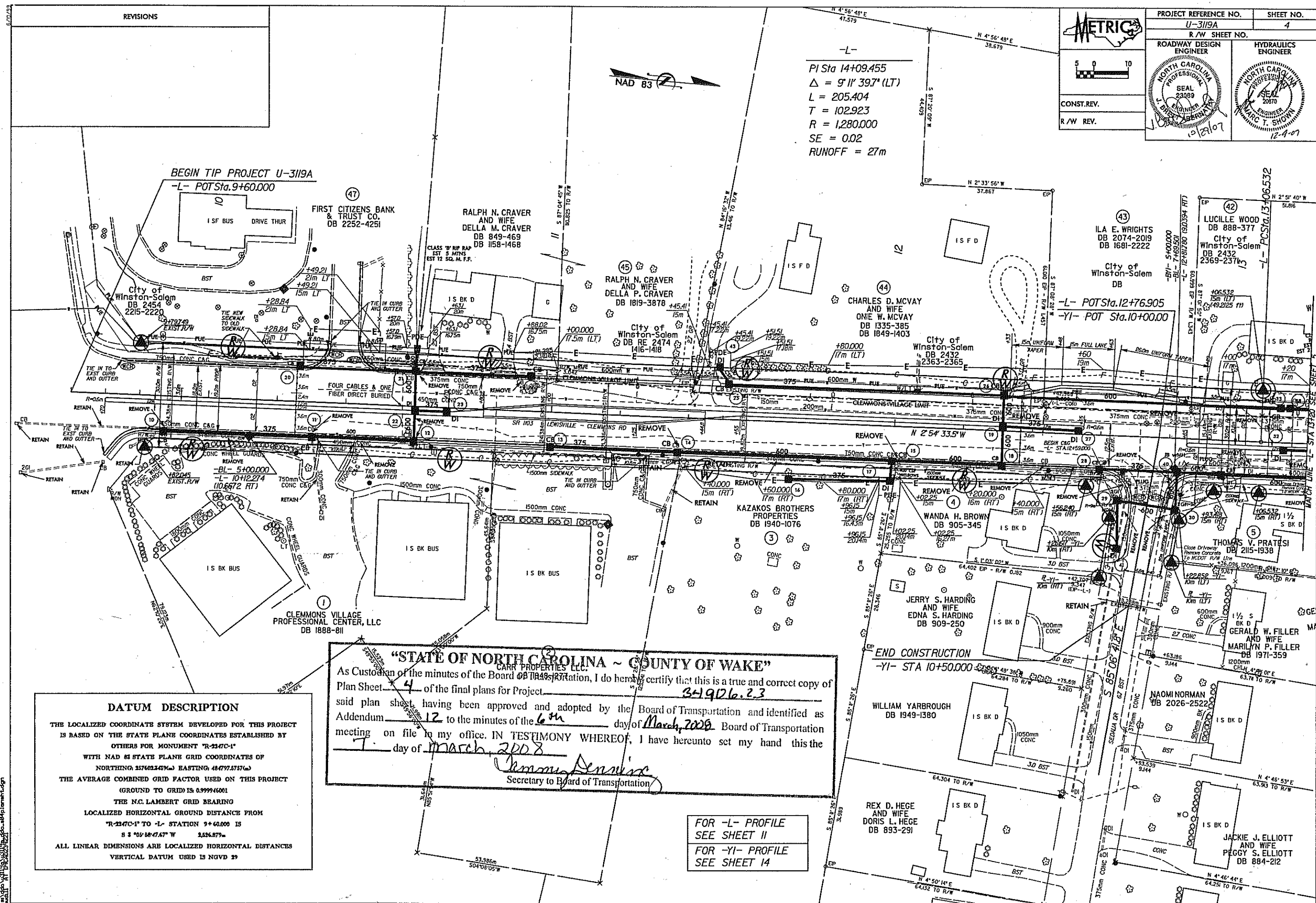
Loose Surface	---
Hard Surface	---
Change in Road Surface	---
Curb	---
Right of Way Symbol	R/W
Guard Post	⊕ GP
Paved Walk	---
Bridge	---
Box Culvert or Tunnel	---
Ferry	---
Culvert	---
Footbridge	---
Trail, Footpath	---
Light House	---

VEGETATION

Single Tree	⊕
Single Shrub	⊕
Hedge	---
Woods Line	---
Orchard	⊕
Vineyard	VINEYARD

RAILROADS

Standard Gauge	---
RR Signal Milepost	---
Switch	---



PROJECT REFERENCE NO. U-3119A		SHEET NO. 4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
CONST. REV.		R/W REV.	

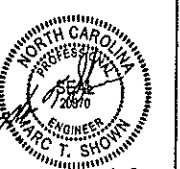
-L-
 PI Sta 14+09.455
 $\Delta = 9^\circ 11' 39.7''$ (LT)
 $L = 205.404$
 $T = 102.923$
 $R = 1,280.000$
 $SE = 0.02$
 $RUNOFF = 27m$

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "R-2347C-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF
 NORTHING: 2176023459.4 EASTING: 484797.5757.4
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.999946001
 THE N.C. LAMBERT GRID BEARING LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R-2347C-1" TO -L- STATION 9+60.000 IS
 $S \ 3^\circ 50' 50.4767'' \ W \ 2,626.879m$
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NGVD 29

"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 4 of the final plans for Project 3419126.23 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008
Jimmy Dennis
 Secretary to Board of Transportation

FOR -L- PROFILE
 SEE SHEET 11
 FOR -YI- PROFILE
 SEE SHEET 14

 5 0 10 CONST. REV. R/W REV.	PROJECT REFERENCE NO. U-3119A	SHEET NO. 5
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

MATCH LINE -L- STA 13+20 SEE SHEET 4

MATCH LINE -L- STA 16+80 SEE SHEET 6

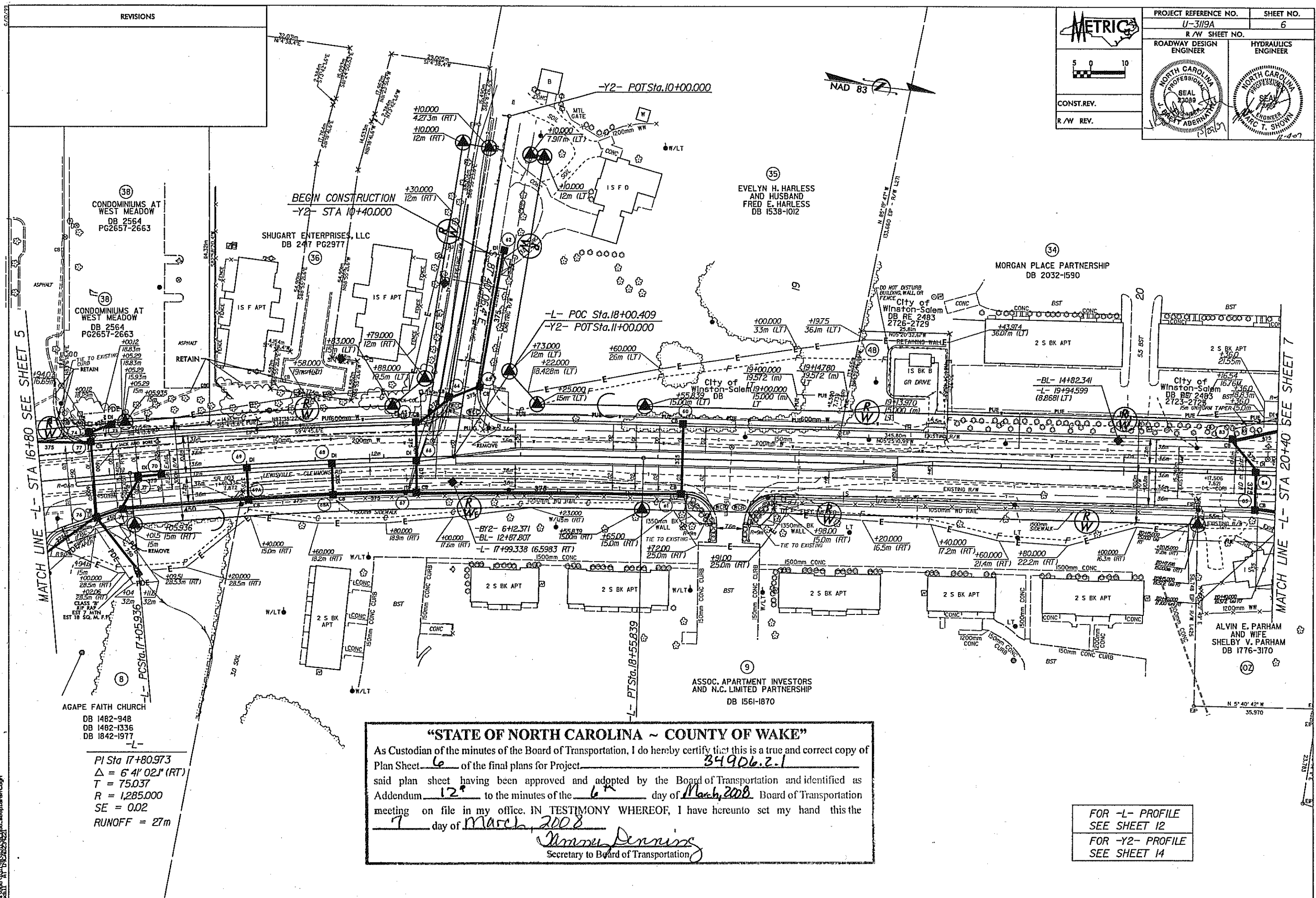
-L-
 PI Sta 14+09.455
 $\Delta = 9' 11'' 39.7''$ (LT)
 $L = 205.404$
 $T = 102.923$
 $R = 1,280.000$
 $SE = 0.02$
 $RUNOFF = 27m$

"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 34906.2.3 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008. Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of MARCH, 2008

Norma Dennis
 Secretary to Board of Transportation

FOR -L- PROFILE
 SEE SHEET II



PROJECT REFERENCE NO. U-3119A		SHEET NO. 6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
CONST. REV.		R/W REV.	

PI Sta 17+80.973
 $\Delta = 6' 41'' 02.1''$ (RT)
 $T = 75.037$
 $R = 1,285.000$
 $SE = 0.02$
 $RUNOFF = 27m$

"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 34906.2.1 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008

Amber Penning
Secretary to Board of Transportation

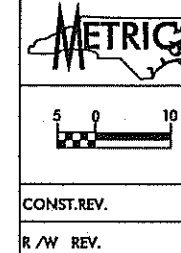
FOR -L- PROFILE
 SEE SHEET 12
 FOR -Y2- PROFILE
 SEE SHEET 14

REVISIONS

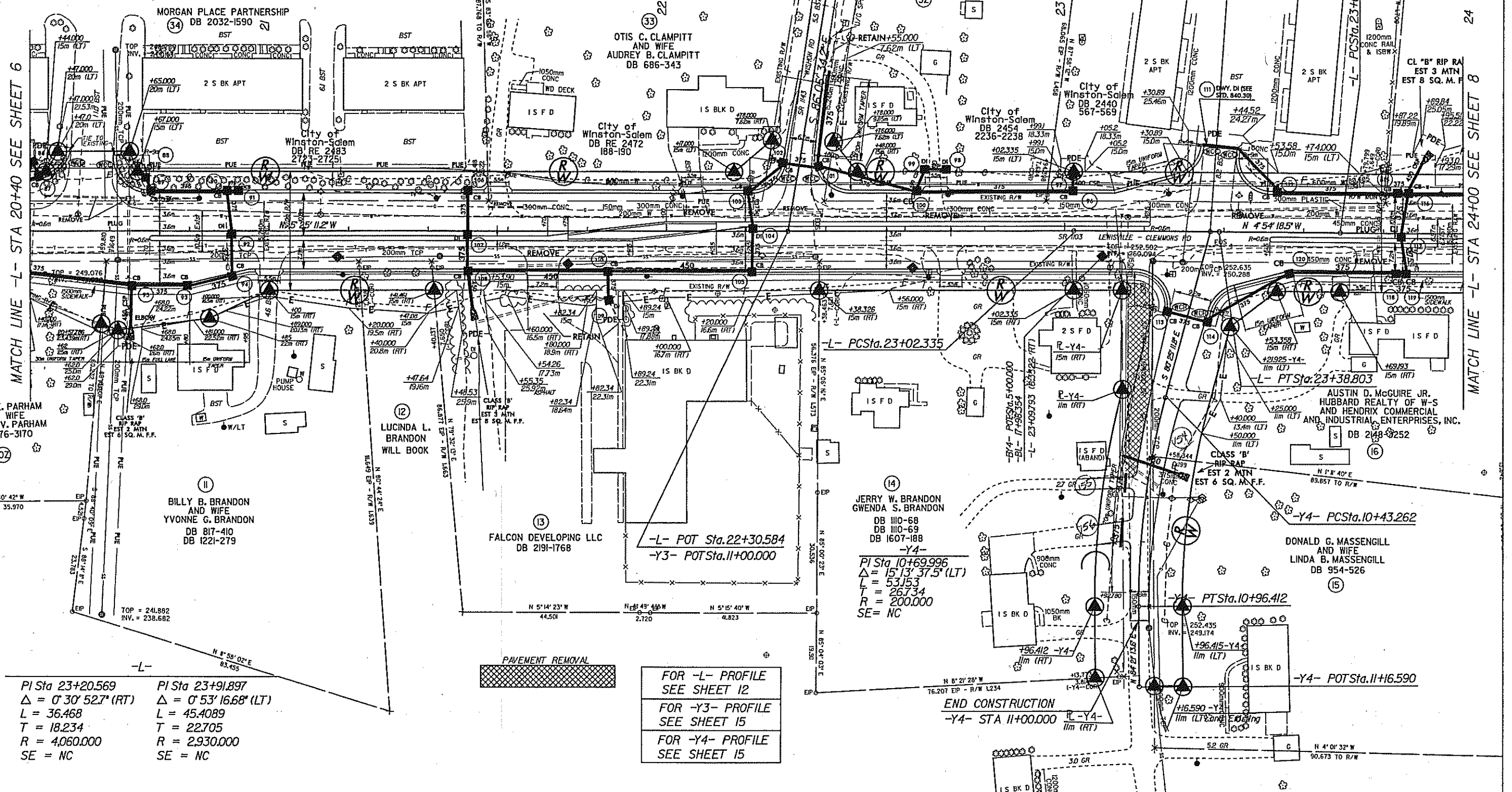
"STATE OF NORTH CAROLINA ~ COUNTY OF WAKE"

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 7 of the final plans for Project 34906.2.3 said plan sheet having been approved and adopted by the Board of Transportation and returned as Addendum 12 to the minutes of the 1st day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008

James Denning
Secretary to Board of Transportation



PROJECT REFERENCE NO. U-3119A	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST. REV.	
R/W REV.	



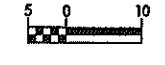
PI Sta 23+20.569 $\Delta = 0^\circ 30' 52.7''$ (RT) L = 36.468 T = 18.234 R = 4,060.000 SE = NC	PI Sta 23+91.897 $\Delta = 0^\circ 53' 16.68''$ (LT) L = 45.4089 T = 22.705 R = 2,930.000 SE = NC
--	--

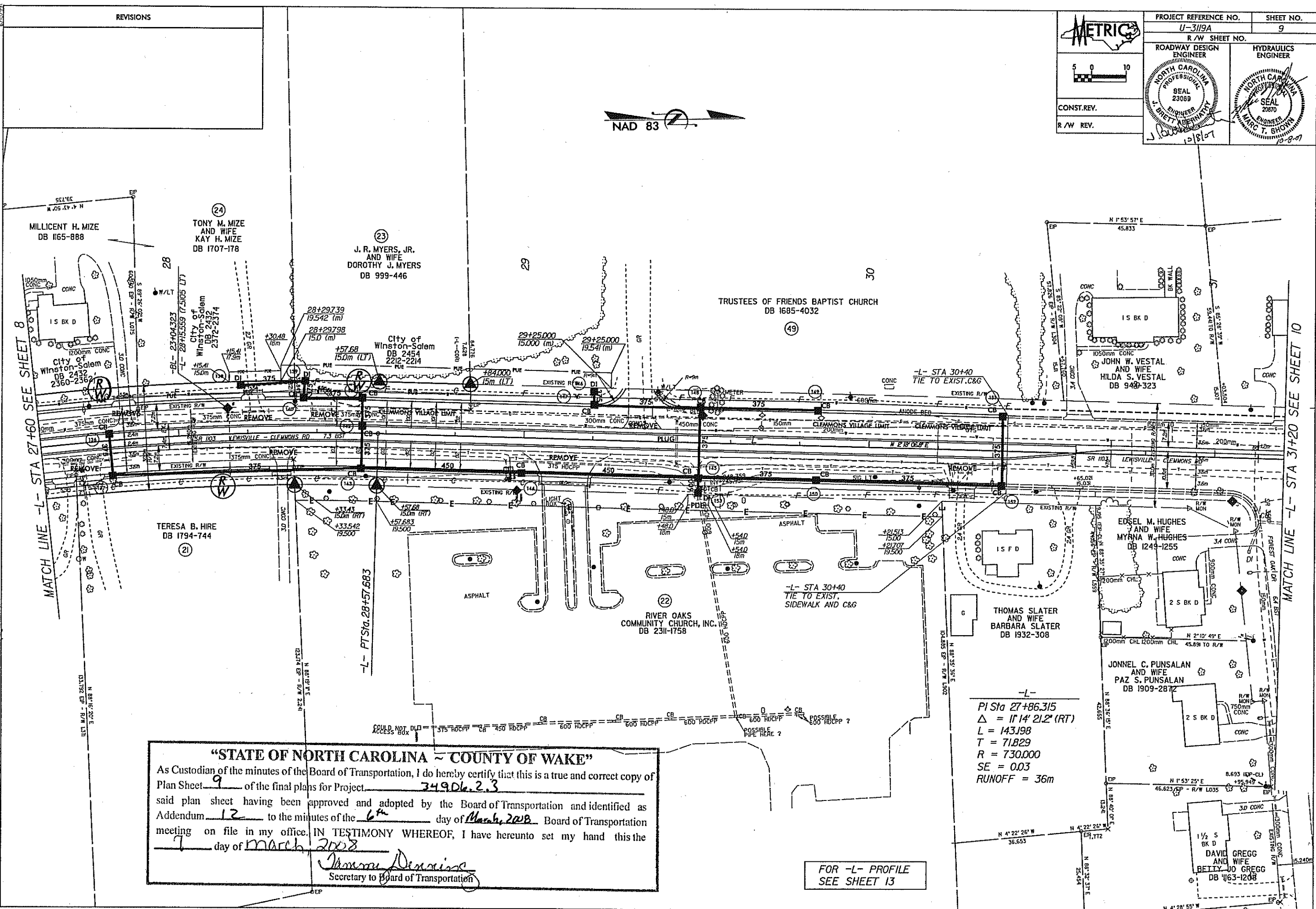
FOR -L- PROFILE
SEE SHEET 12
FOR -Y3- PROFILE
SEE SHEET 15
FOR -Y4- PROFILE
SEE SHEET 15

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 8 of the final plans for Project 34906.2.3 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008

Secretary to Board of Transportation

FOR -L- PROFILE
SEE SHEET 13

		PROJECT REFERENCE NO. U-3119A	SHEET NO. 9
		ROADWAY DESIGN ENGINEER NORTH CAROLINA SEAL 23089 J. BRETT ABERNATHY	HYDRAULICS ENGINEER NORTH CAROLINA SEAL 20870 W. T. SHOWN
CONST. REV.		R/W REV.	



"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

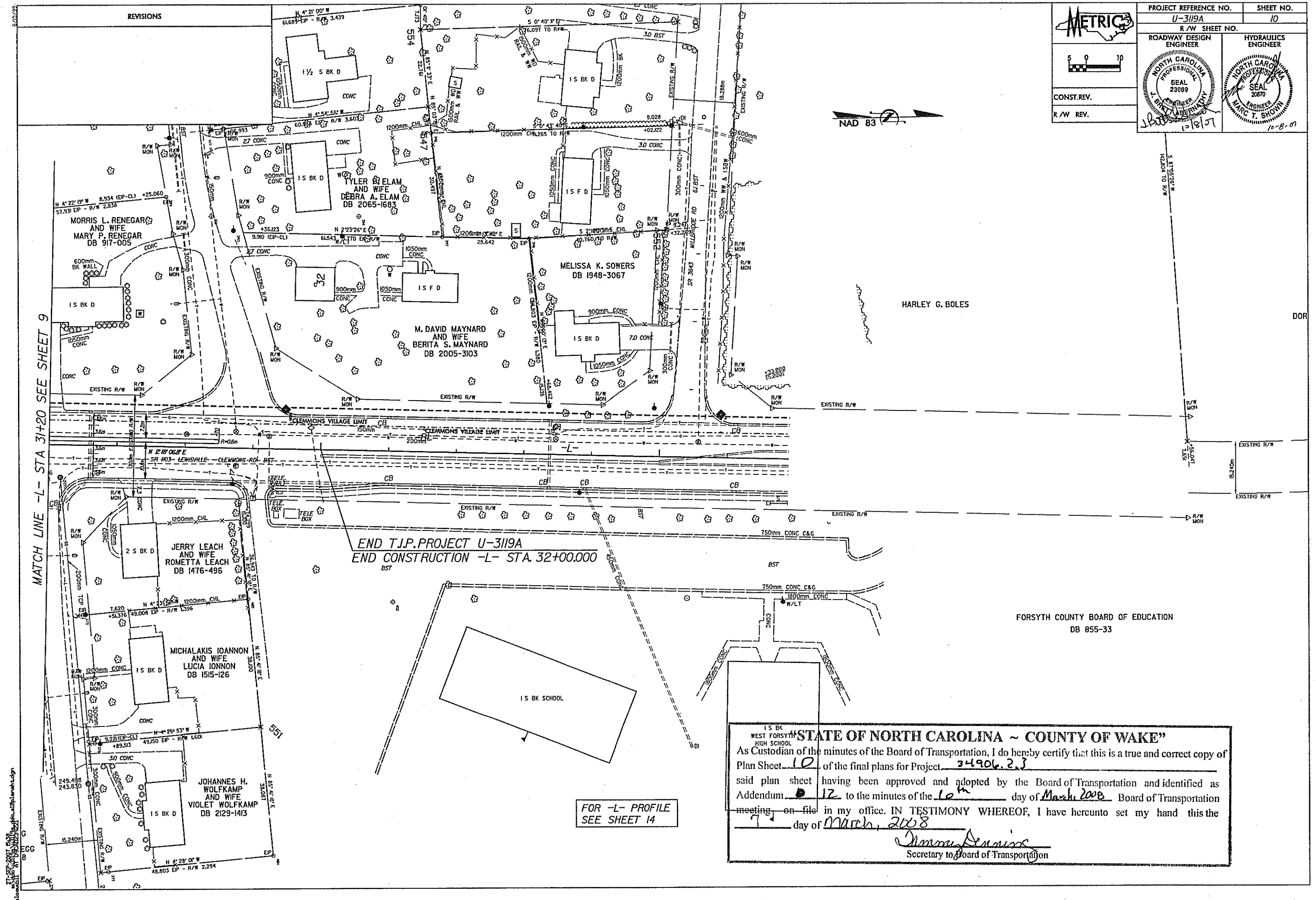
As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 9 of the final plans for Project 34906.2.3 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 6th day of March, 2008 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008

Thomas Derriso
Secretary to Board of Transportation

FOR -L- PROFILE
SEE SHEET 13

-L-
PI Sta 27+86.315
 $\Delta = 11' 14" 21.2' (RT)$
 $L = 143.198$
 $T = 71.829$
 $R = 730.000$
 $SE = 0.03$
RUNOFF = 36m

05-05-2008 15:08 J:\Projects\34906.2.3\Drawings\34906.2.3.dgn



PROJECT REFERENCE NO. U-3119A		SHEET NO. 10	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
CONST. REV.		R/W REV.	

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 10 of the final plans for Project 34906.2.3 said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 12 to the minutes of the 16th day of March 2008 Board of Transportation meeting, on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 7 day of March, 2008

Johnny Dennis
Secretary to Board of Transportation

FOR -L- PROFILE
SEE SHEET 14