

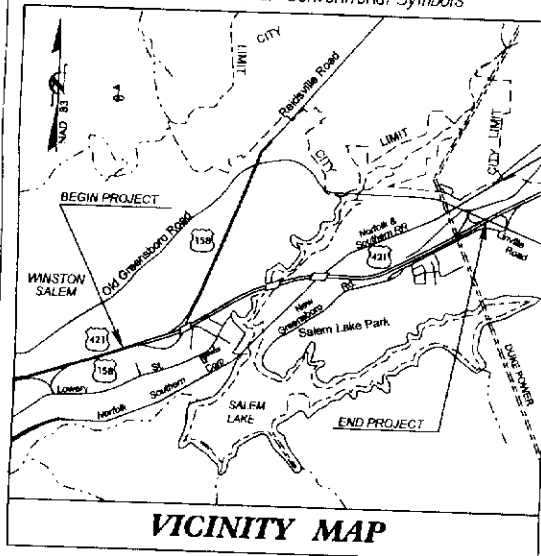
Meredith Britt NC Dept Transp. Right of Way 1546 Mail Service Ctr. Raleigh NC 27699

680

R-0952A

PROJECT: 8.1621204

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



VICINITY MAP

BEGIN STATE PROJECT No. 8.1621204
BEGIN F.A. PROJECT No. STPNHS-421(21)
-WBL- POT Sta. 9+20.000
-EBL- POT Sta. 9+20.030

BEGIN BRIDGE
Sta. 14+60.348 -WBL

BEGIN BRIDGE
Sta. 14+38.095 -EBL

BEGIN CONSTRUCTION
Sta. 8+28.349 -WBL

END BRIDGE
Sta. 15+71.448 -WBL

PROJECT	8.1621203	END STATE PROJECT No. 8.1621204
PRIMARY ROAD	US 421 I-40 Business	END F.A. PROJECT No. STPNHS-421(21)
CONNECTING ROADS	US 158 SR-2662	-WBL- POT Sta. 43+00.000 -EBL- POT Sta. 43+00.792

BEGIN BRIDGE
Sta. 22+40.175 -WBL

BEGIN BRIDGE
Sta. 22+13.176 -EBL

BEGIN BRIDGE
Sta. 27+49.500 -WBL

END BRIDGE
Sta. 23+59.824 -WBL

END BRIDGE
Sta. 23+32.824 -EBL

END WBL PAVING
WBL STA. 4+80.000

END EBL PAVING
EBL STA. 4+80.792

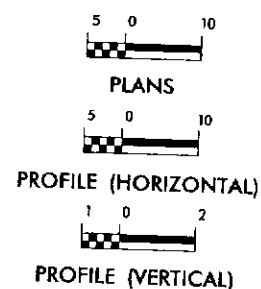
END CONSTRUCTION
Sta. 44+60.099 -WBL

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of the final plans for Project 8.1621203 R-0952A. The said plan sheet having been approved and adopted by the Board of Transportation and identified as such on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

Secretary to Board of Transportation

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

GRAPHIC SCALE



DESIGN DATA

ADT 2002 = 56,100 vpd
ADT 2025 = 32,000 vpd
DHV = 10 %
D = 60 %
T = 6 %
V = 100 km/h
* TTST 4 % DUAL 2 %

PROJECT LENGTH

LENGTH ROADWAY F.A. PROJECT No. STPNHS-421(21) = 3.135 km
LENGTH STRUCTURES F.A. PROJECT No. STPNHS-421(21) = 0.246 km
TOTAL LENGTH STATE PROJECT No. 8.1621204 = 3.381 km

NOTE: -EBL- USED TO DETERMINE PROJECT LENGTH

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

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 27, 2000

LETTING DATE:
JUNE 18, 2002

JAMES A. SPEER, PE
PROJECT ENGINEER

JOHN C. LANSFORD, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



ROADWAY DESIGN
ENGINEER



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

682

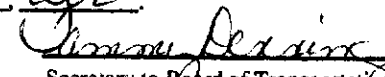
PROJECT REFERENCE NO.	SHEET NO.
R-0952A	3-K

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4, 5	DELTA VISIONS, INC.
2	4	NAEGELE OUTDOOR ADVERTISING, INC.
3	6	ROBERT L. FOX A/W RUTH G. FOX
4	6, 7	GLEN O. JACKSON, ET AL (AMP INC.)
5	6, 7, 8	CITY OF WINSTON SALEM
6	7, 8, 9	CITY OF WINSTON SALEM
8	8, 9	WAYNE J. BRANCH
9	9	W. AVALON POTTS
9A	10	CITY OF WINSTON SALEM
10	9, 10	PEPSI BOTTLING VENTURES, LLC
11	11	PEPSI BOTTLING VENTURES, LLC

"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 3-K of the final plans for Project 8.1621203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002. Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.


Secretary to Board of Transportation

-WBI-

Pis Sta. 13+48.638	Pi Sta. 14+48.634	Pis Sta. 15+48.321
$Os = 2' 49" 59.9$	$\Delta = 8' 47" 30.0$ (LT)	$Os = 2' 49" 59.9$
$Ls = 90.000$	$L = 139.634$	$Ls = 90.000$
$LT = 60.008$	$T = 69.954$	$LT = 60.008$
$ST = 30.007$	$R = 90.000$	$ST = 30.007$
	$SE = .05$	
	$RO = 90m$	

Pls Sta. 10+33.340	Pl Sta 11+08.682	Pls Sta. 11+83.264
Os = 5 27 05.6	$\Delta = 16^{\circ} 05' 48.8" (LT)$	Os = 5 27 05.6
Ls = 50,000	L = 16,592	Ls = 50,000
LT = 33,340	T = 58,682	LT = 33,340
ST = 16,672	R = 415,000	ST = 16,672
	SE = 0.08m/m	
	RO = 50,000	

-Y/-

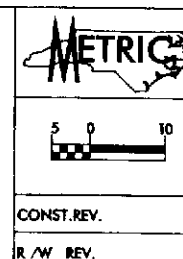
- FBI -

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

PI Sta. 13+76.450 PIs Sta. 15+38.614
 Δ = 18° 52' 45" (LT) 72.9332
 L = 134.773
 R = 910.000
 SE = 0.45
 RO = 90.000

As Chairman of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of the final plans for Project 8.1621203 R-0952A
Plan Sheet 60.008
and plan sheet 60.007
 Addendum 6 to the minutes of the 11 day of July, 2002. Board of Transportation
 meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand and the
11th day of July, 2002
252.84
 -YI- POT Sta. 12+80.000

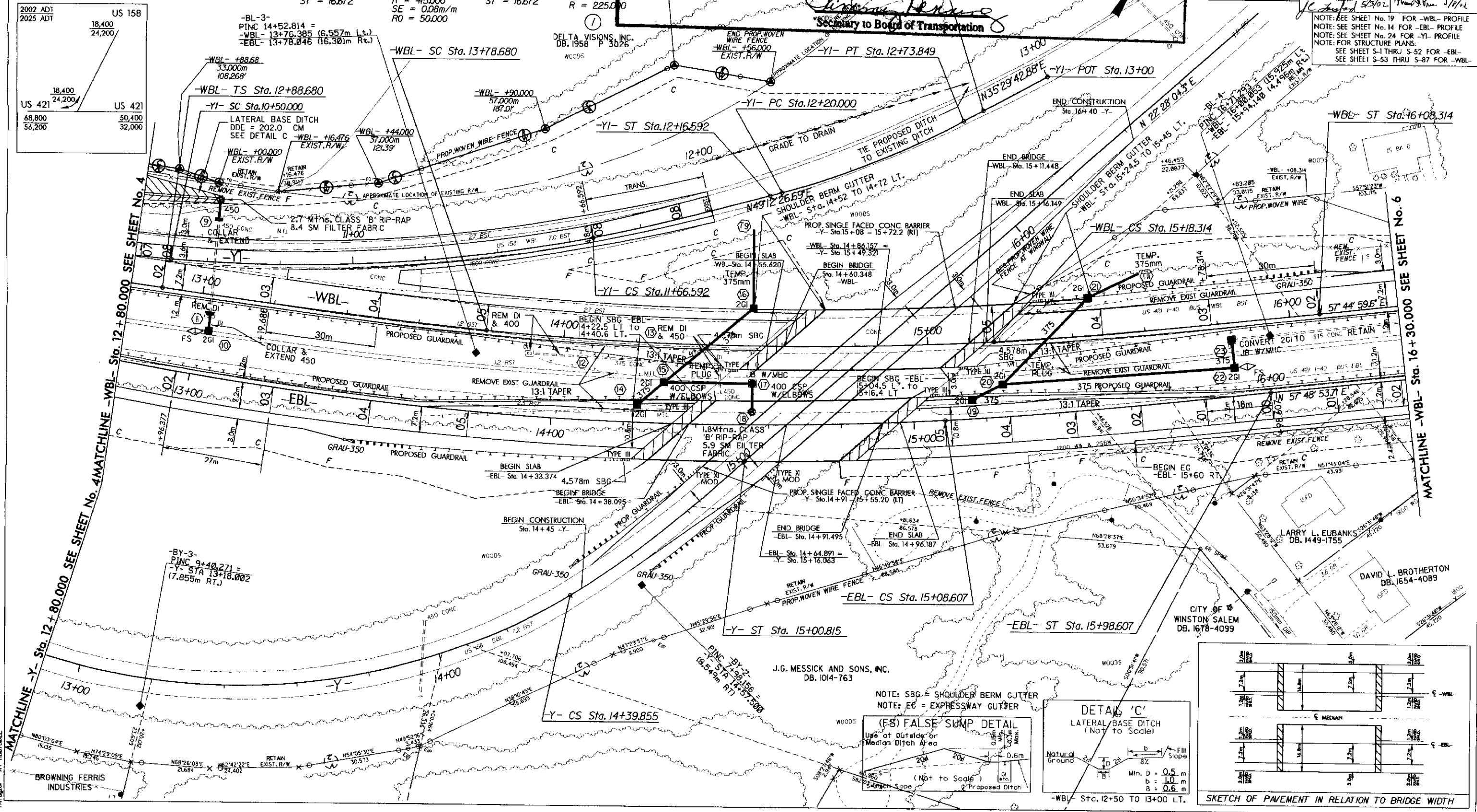
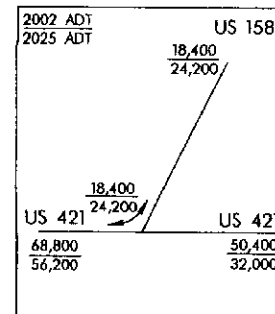
Secretary to Board of Transportation



PROJECT REFERENCE NO.	SHEET NO.
R-0952A	5

K/W SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

NOTE: SEE SHEET No. 19 FOR -WBL- PROFILE
NOTE: SEE SHEET No. 14 FOR -EBL- PROFILE
NOTE: SEE SHEET No. 24 FOR -YI- PROFILE
NOTE: FOR STRUCTURE PLANS:
SEE SHEET S-1 THRU S-52 FOR -EBL-
SEE SHEET S-53 THRU S-87 FOR -WBL-



J.G. MESSICK AND SONS, INC
DB. 1014-763

NOTE: SBG = SHOULDER BERM GUTTER
NOTE: EG = EXPRESSWAY GUTTER

(ES) FALSE SUMP DETAIL

DETAIL 'C'

LATERAL BASE DITCH
(Not to Scale)

The diagram shows a cross-section of a road. On the left, the 'Natural Ground' is indicated. A road surface with a 2% slope descends from the left. A vertical line labeled '1m' indicates a height. To the right of this, the road surface continues with a 2% slope. A horizontal distance 'b' is marked between the vertical line and the start of the 'Fill Slope'. The 'Fill Slope' is shown as a dashed line with a 2% slope. The road surface is labeled '8%'.

$$\begin{aligned} \text{Min. } D &= \frac{0.5}{1.0} \text{ m} \\ b &= 1.0 \text{ m} \end{aligned}$$

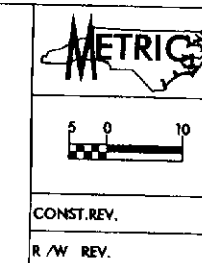
-WBL- Sta. 12+50 TO 13+00 LT. B = 0.6 m

SKETCH OF PAVEMENT IN RELATION TO BRIDGE WIDTH

685

REVISIONS

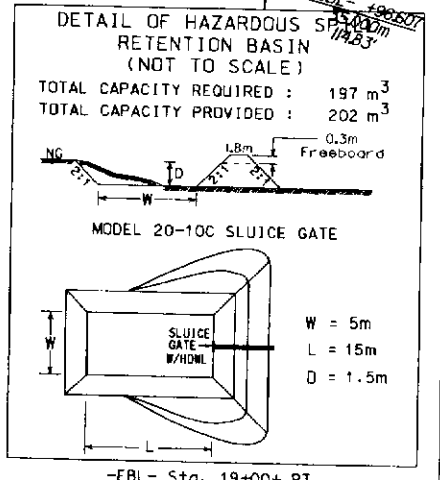
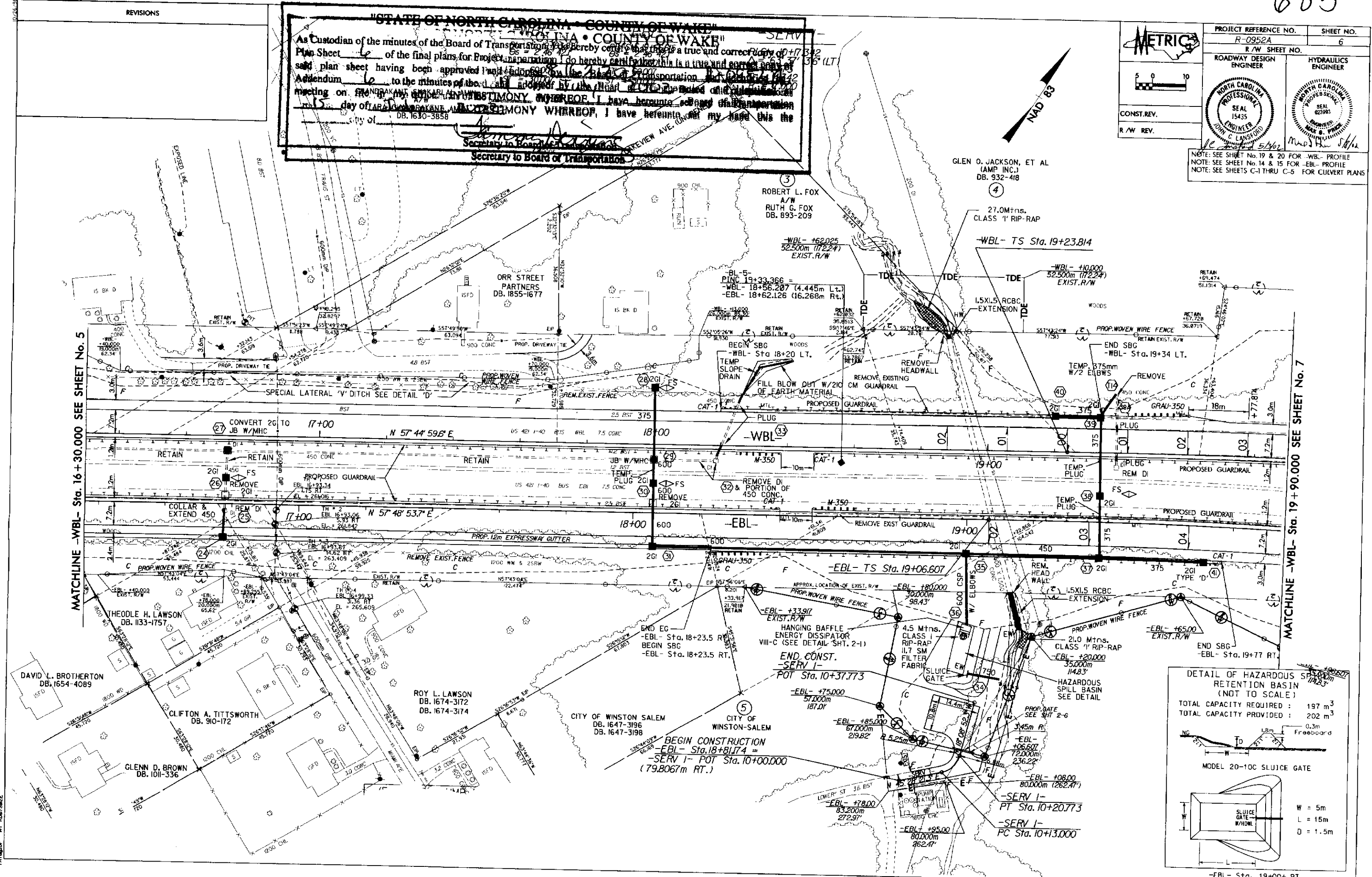
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
"COUNTY OF WAKE"
As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of the final plans for Project 16-30-000, as approved by the Board of Transportation at its meeting on the 15th day of April, 1990, at Raleigh, North Carolina. I have become a member of the Board of Transportation on the 15th day of April, 1990, and my term of office expires on the 15th day of April, 1993. My name is the Secretary to Board of Transportation.



PROJECT REFERENCE NO. R-0952A		SHEET NO. 6
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
NOTE: SEE SHEET No. 19 & 20 FOR -WBL- PROFILE NOTE: SEE SHEET No. 14 & 15 FOR -EBL- PROFILE NOTE: SEE SHEETS C-1 THRU C-5 FOR CULVERT PLANS		

MATCHLINE -WBL- Sta. 16+30.000 SEE SHEET No. 5

MATCHLINE -WBL- Sta. 19+90.000 SEE SHEET No. 7



686

REVISIONS

-WBL-
Pls Sta. 19+83.82
Gs = 2' 46" 42"
Ls = 90.000
LT = 60.007
ST = 30.007
Pls Sta. 20+95.003
Gs = 10' 00" 00" (RT)
Ls = 161.961
R = 928.000
SE = 0.05 m/m
RO = SEE PLANS
Pls Sta. 22+105.37
Gs = 2' 46" 42"
Ls = 90.000
LT = 60.007
ST = 30.007

-EBL-
Pls Sta. 19+66.615
Gs = 2' 46" 42"
Ls = 90.000
LT = 60.007
ST = 30.007
Pls Sta. 20+79.837
Gs = 10' 15" 00" (RT)
Ls = 166.016
R = 928.000
SE = 0.05 m/m
RO = SEE PLANS
Pls Sta. 21+92.670
Gs = 2' 46" 42"
Ls = 90.000
LT = 60.007
ST = 30.007

-BL-6-
PINC 22+23.964 =
-WBL- 21+48.115 (3.474m L.T.)
-EBL- 21+49.154 (21.884m R.T.)

"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 the said plan sheet having been approved and adopted by the Board of Transportation and identified as such by meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July 2002.

GLEN O. JACKSON, ET AL
(AMP INC.)
DR. 932-418

Secretary to Board of Transportation

DETAIL FOR
FUTURE GREENWAY



CONST. REV.

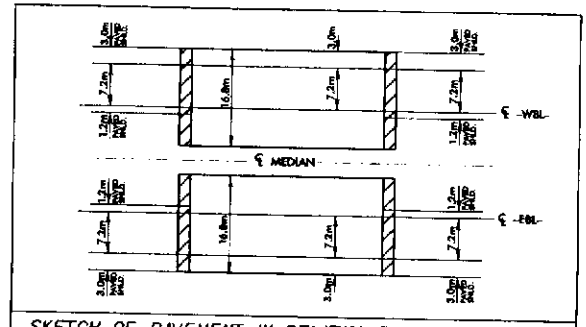
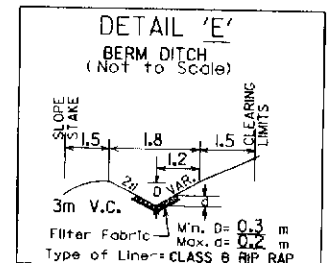
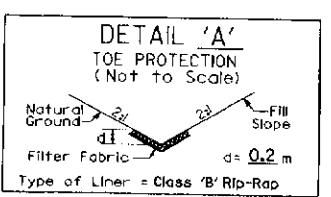
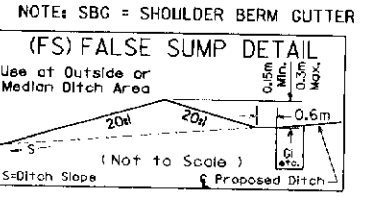
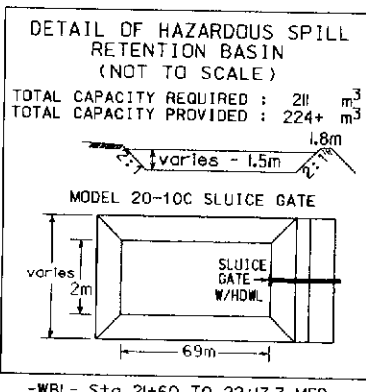
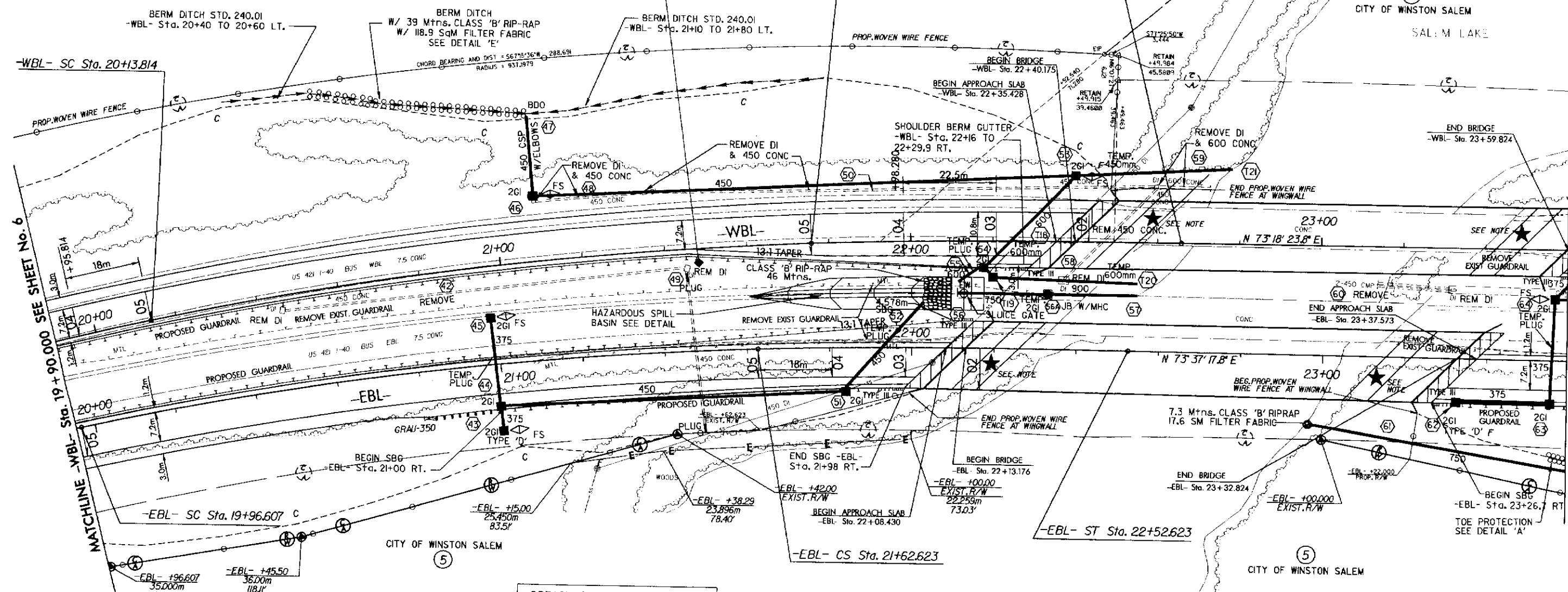
R/W REV.

PROJECT REFERENCE NO. R-0952A	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 15435 JOHN C. LAWSON	HYDRAULICS ENGINEER SEAL 15435 MAX S. PUGH
NOTE: SEE SHEET No. 20 & 22 FOR -WBL- PROFILE NOTE: SEE SHEET No. 15 & 16 FOR -EBL- PROFILE	

NOTE: FOR STRUCTURE PLANS:
SEE SHEETS S-88 THRU S-149 FOR -EBL-
SEE SHEETS S-150 THRU S-190 FOR -WBL-

CITY OF WINSTON SALEM

SALIM LAKE



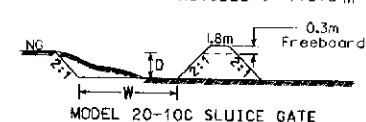
MATCHLINE -WBL- Sta. 23 + 60.000 SEE SHEET No. 8

687

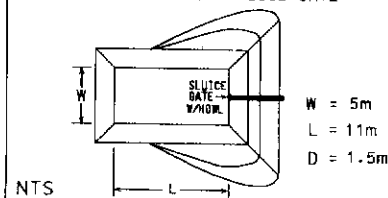
REVISIONS

DETAIL OF HAZARDOUS SPILL
RETENTION BASIN

TOTAL CAPACITY REQUIRED : 169 m³
TOTAL CAPACITY PROVIDED : 175.5 m³

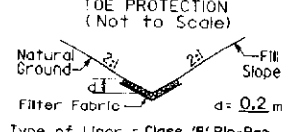


MODEL 20-10C SLUICE GATE



NTS

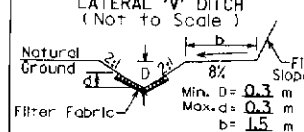
DETAIL 'A'
TOE PROTECTION
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

-EBL- Sta. 23+55 TO 24+00 RT.
-SERV2- Sta. 10+20 TO 11+25.5 RT.

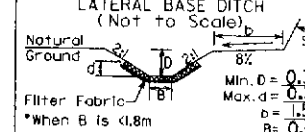
DETAIL 'G'
LATERAL 'V' DITCH
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

-EBL- Sta. 23+55 TO 24+00 RT.
-SERV2- Sta. 10+20 TO 11+25.5 RT.

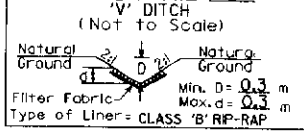
DETAIL 'H'
LATERAL BASE DITCH
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

-EBL- Sta. 24+00 TO 24+25 RT.

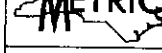
DETAIL 'O'
'V' DITCH
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

-EBL- Sta. 24+04 TO 24+53 RT.

METRIC



CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-0952A
SHEET NO. 8

ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

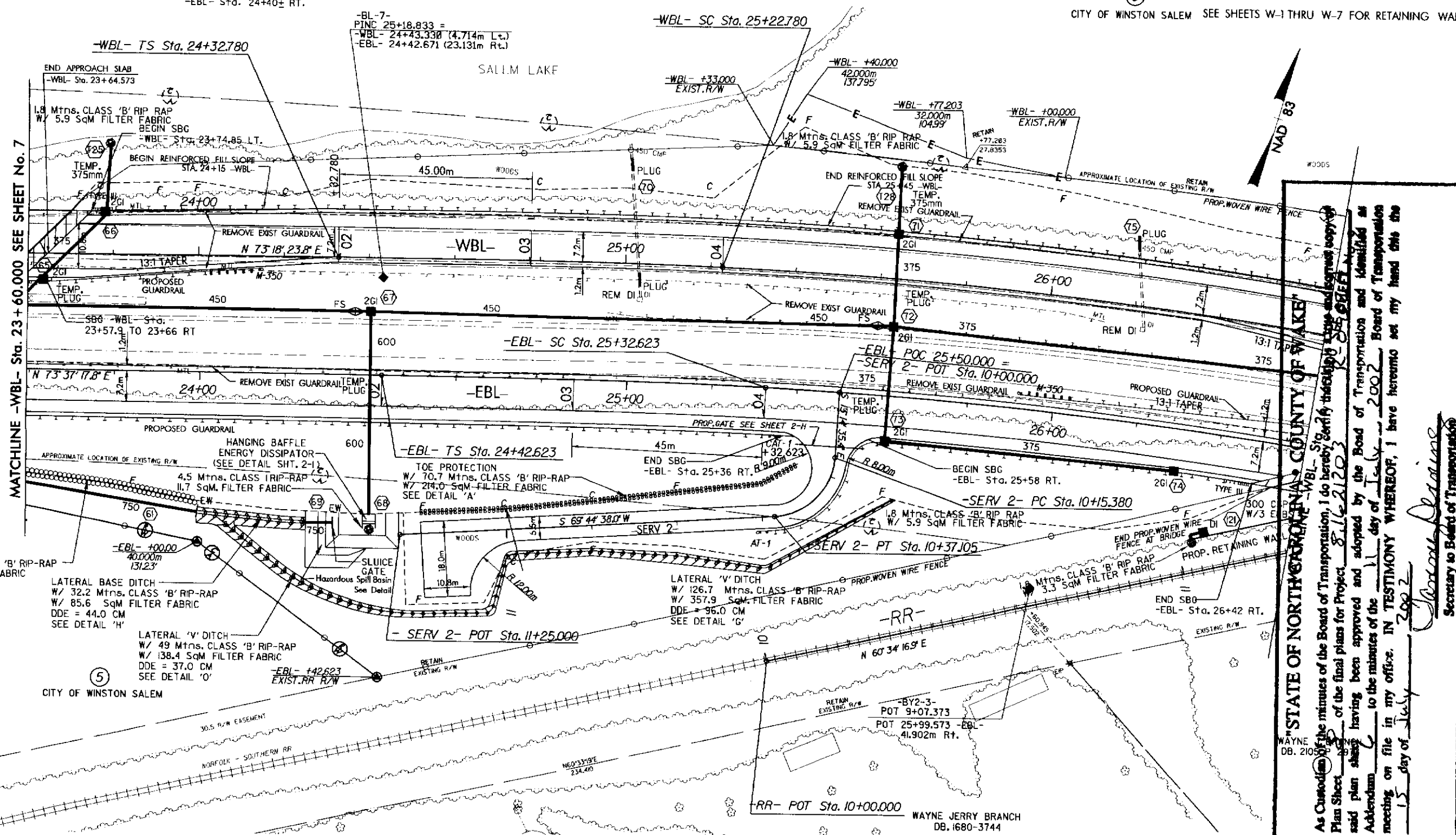
SEAL 154355
ENGINEER
J. C. LANSFORD

SEAL 025983
ENGINEER
M. S. PERRY

NOTE: SEE SHEET No. 21 FOR -WBL- PROFILE
NOTE: SEE SHEET No. 16 FOR -EBL- PROFILE
NOTE: SEE SHEET No. 27 FOR -SERV2- PROFILE

FOR STRUCTURE PLANS:
SEE SHEETS S-150 THRU S-190 -WBL-
SEE SHEETS S-191 THRU S-226 -EBL-

⑥
CITY OF WINSTON SALEM SEE SHEETS W-1 THRU W-7 FOR RETAINING WALL PLANS

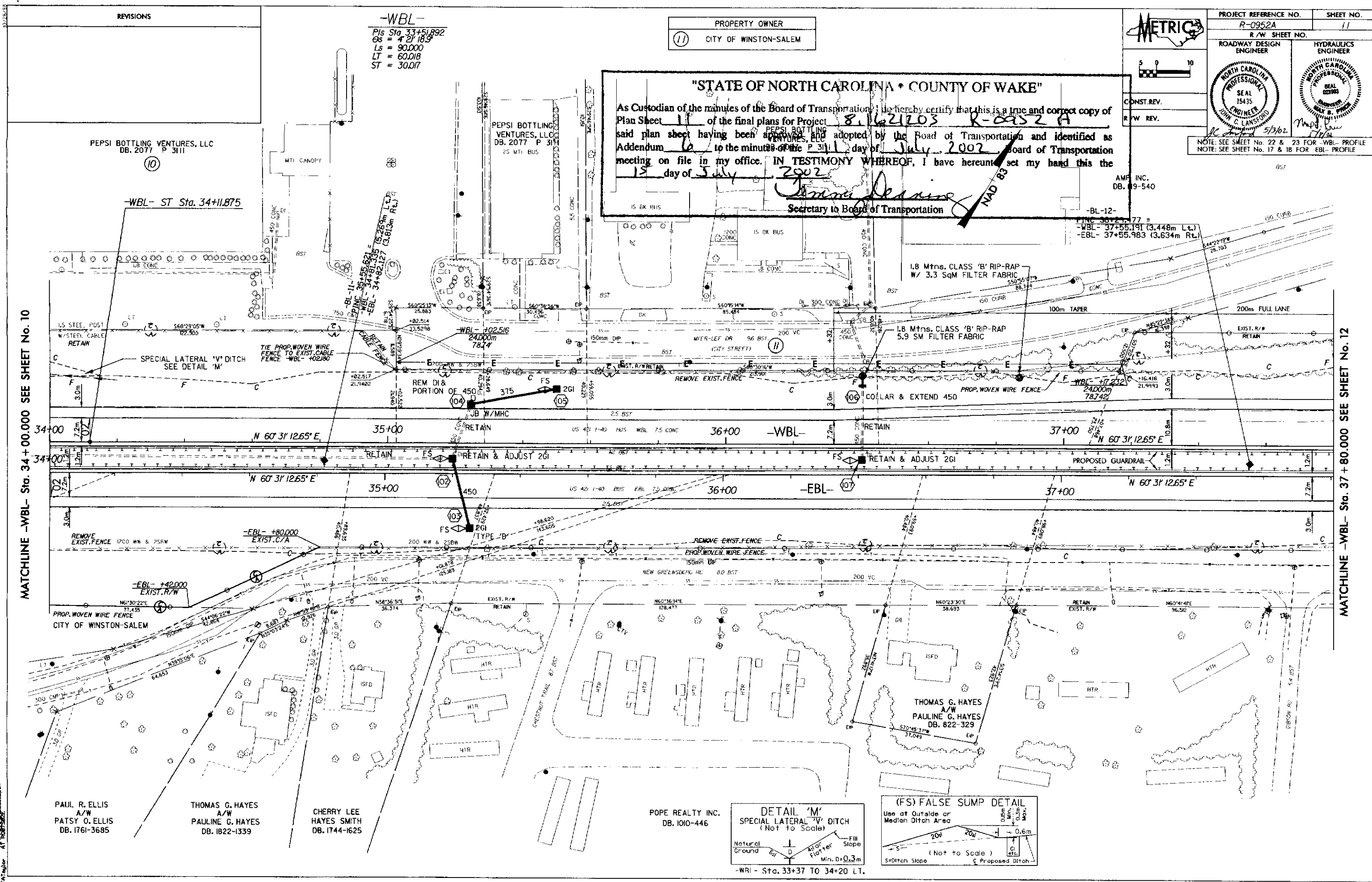


STATE OF NORTH CAROLINA - COUNTY OF WAKE
As Custodian of the minutes of the Board of Transportation, I do hereby certify that the foregoing is a true and correct copy of the minutes of the Board of Transportation, held on the 15th day of July, 2002, at the Board of Transportation meeting held in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of July, 2002.
Wayne Jerry Branch
Secretary to Board of Transportation

R / W REV.

NOTE: SBG = SHOULDER BERM GUTTER

690



MATCHLINE -WBL- Sta. 34 + 00.000 SEE SHEET No. 10

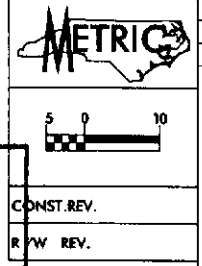
MATCHLINE -WBL- Sta. 37 + 80.000 SEE SHEET No. 12

REVISIONS

-WBL-
Pls Sta 33+51.892
G = 4.2118.9
Ls = 90.000
LT = 60.018
ST = 30.017

PROPERTY OWNER
CITY OF WINSTON-SALEM

"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 11 of the final plans for Project 8.1621203 R-0452 A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the P 311 day of July 2002 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 19 day of July 2002
Secretary to Board of Transportation



PROJECT REFERENCE NO. R-0952A SHEET NO. 11
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 15435
NORTH CAROLINA PROFESSIONAL SEAL 02390
NOTE: SEE SHEET No. 22 & 23 FOR -WBL- PROFILE
NOTE: SEE SHEET No. 17 & 18 FOR -EBL- PROFILE

PEPSI BOTTLING VENTURES, LLC
DB. 2077 P 3111

PEPSI BOTTLING VENTURES, LLC
DB. 2077 P 3111

AMP INC.
DB. 09-540

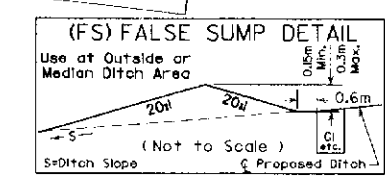
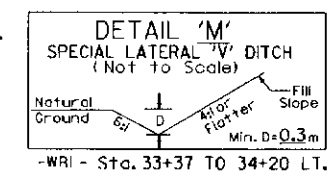
PAUL R. ELLIS
A/W
PATSY O. ELLIS
DB. 1761-3685

THOMAS G. HAYES
A/W
PAULINE G. HAYES
DB. 1822-1339

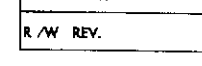
CHERRY LEE
HAYES SMITH
DB. 1744-1625

POPE REALTY INC.
DB. 1010-446

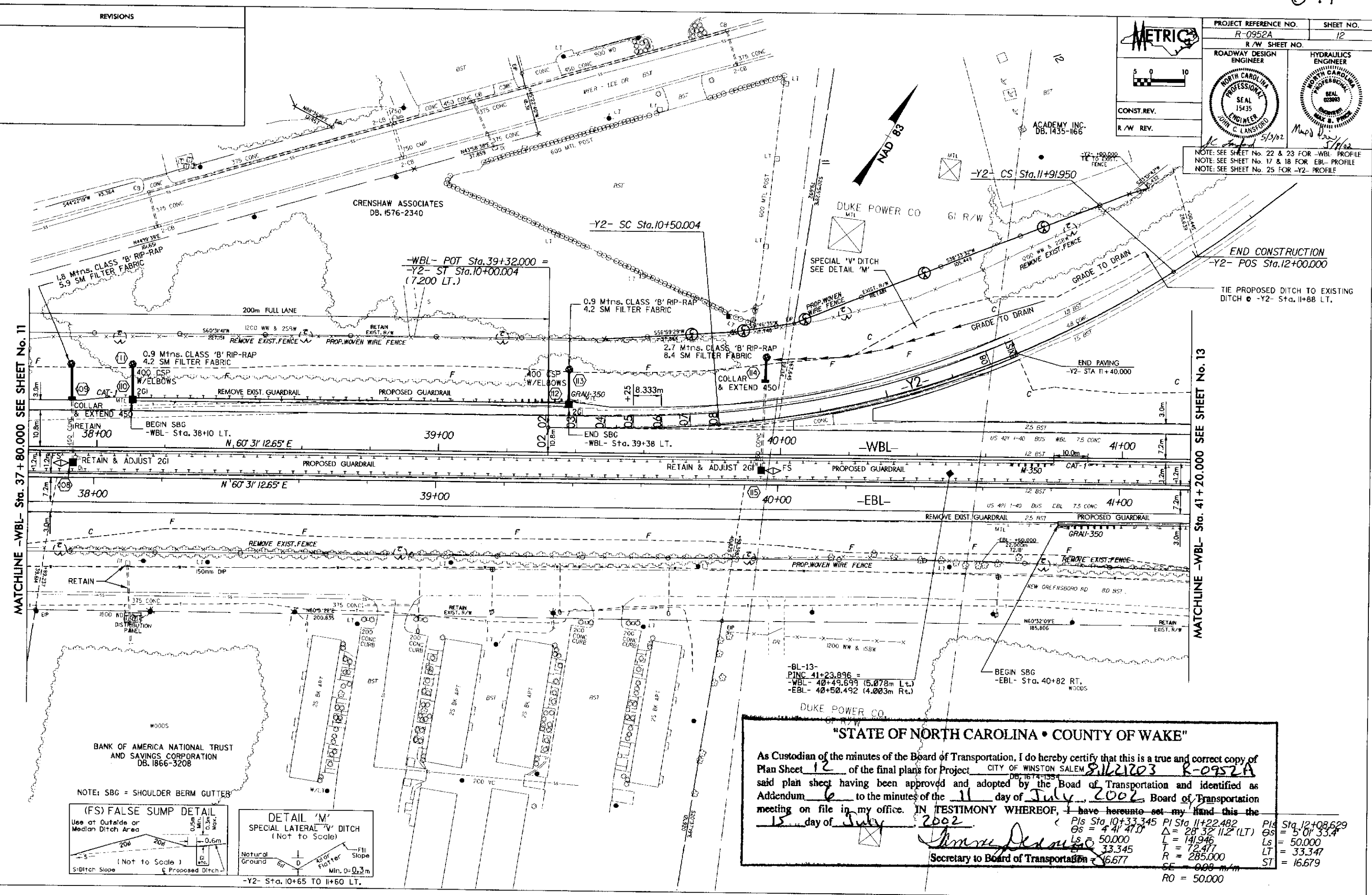
THOMAS G. HAYES
A/W
PAULINE G. HAYES
DB. 822-329



05-MAY-2002
TAT



PROJECT REFERENCE NO.		SHEET NO.	
R-0952A		12	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
<i>NC 5/3/02</i>		<i>MWD 5/4/02</i>	
NOTE: SEE SHEET No. 22 & 23 FOR WBL PROFILE NOTE: SEE SHEET No. 17 & 18 FOR EBL- PROFILE NOTE: SEE SHEET No. 25 FOR -Y2- PROFILE			



"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 12 of the final plans for Project CITY OF WINSTON SALEM 8.11.21203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

[Signature]
Secretary to Board of Transportation

Pls Sta 10+33.345
GS = 4' 41" 47.0"
LS = 50.000
ET = 33.345
SF = 16.677

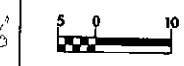
Pls Sta 11+22.482
Δ = 28' 32" 11.2" (LT)
L = 141.946
T = 72.477
R = 285.000
SF = 0.000

Pld GS =
LT =
ST =

for	my hand	this time		
Pls	Sta. 11+22.482	Pls	Sta. 12+08.629	
Δ	$= 28^{\circ} 32' 11.2" (LT)$	Θs	$= 5^{\circ} 01' 33.4"$	
L	$= 141.946$	Ls	$= 50.000$	
T	$= 72.477$	LT	$= 33.347$	
R	$= 285.000$	ST	$= 16.679$	
SE	$= 0.03 \text{ m/m}$			
RO	$= 50.000$			

692

REVISIONS



CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-0952A	SHEET NO. 13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NOTE: SEE SHEET No. 23 FOR -WBL- PROFILE NOTE: SEE SHEET No. 18 FOR -EBL- PROFILE NOTE: SEE SHEET 2-F FOR MEDIAN CROSSOVER DETAIL	

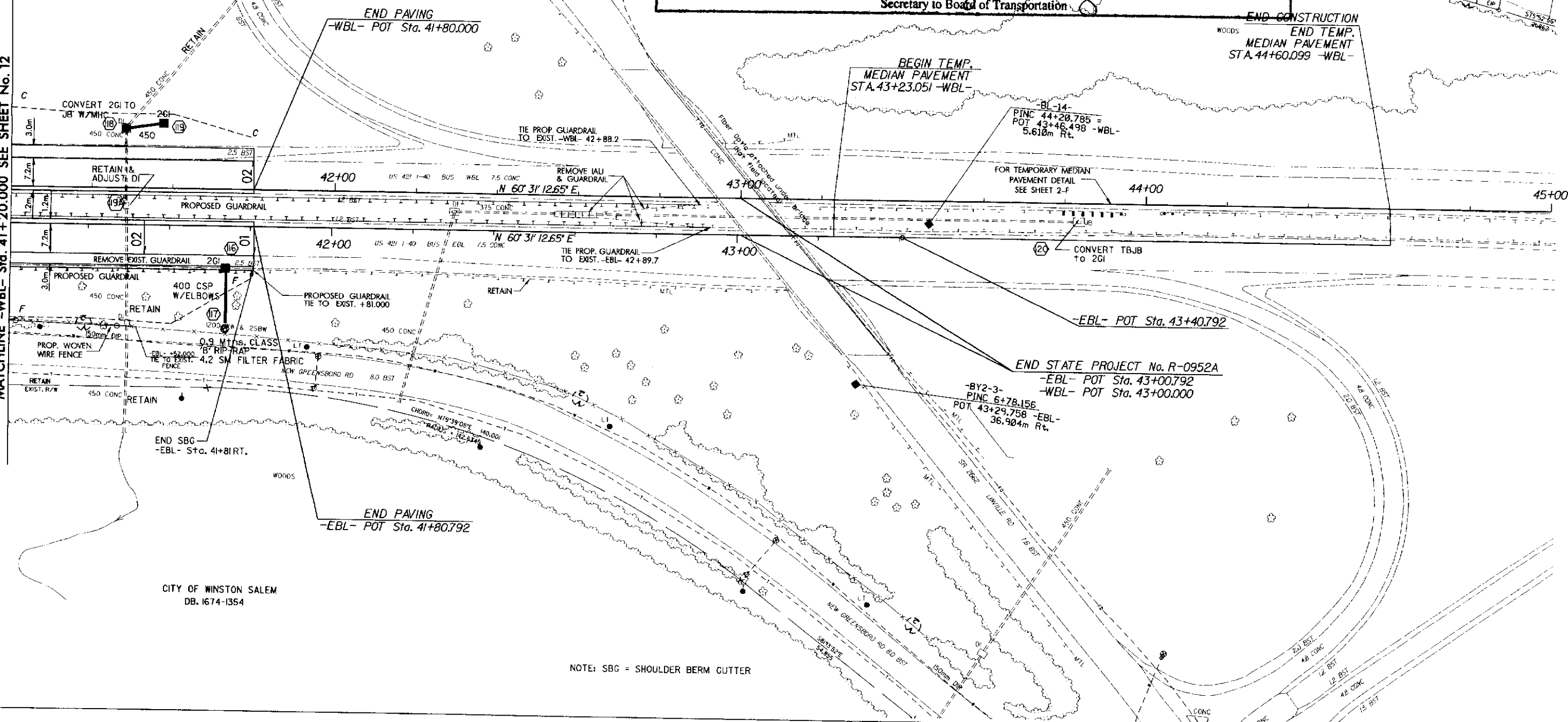
"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

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 13 of the final plans for Project 8.16.210203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002. Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

James Deering
Secretary to Board of Transportation

WATSON INDUSTRIES INC.
DB. 1840-3762
15 BK EUS

MATCHLINE -WBL- Sta. 41+20.000 SEE SHEET No. 12



CITY OF WINSTON SALEM
DB. 1674-1354

NOTE: SBC = SHOULDER BERM GUTTER

03-MAY-2002 ME
TAT:mec