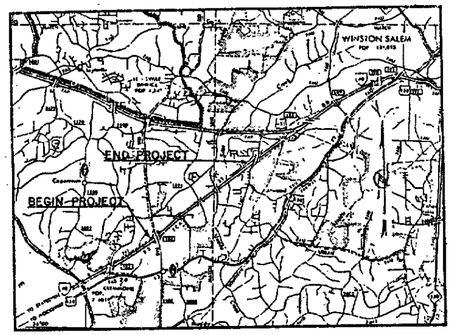
517

I-0911C

PROJECT: 8.1610402

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



SKETCH MAP SHOWING LOCATION OF STATE PROJECT 8.1610402

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

LOCATION: I-40 FROM 0.15 MILES WEST OF SR 1103 TO 0.3 MILES WEST OF SR 1122

TYPE OF WORK: WIDENING, RESURFACING, REHABILITATION OF EXISTING PAVEMENT, PAVING, GRADING, DRAINAGE, STRUCTURES, LONGLIFE PAVEMENT MARKERS, AND SIGNING

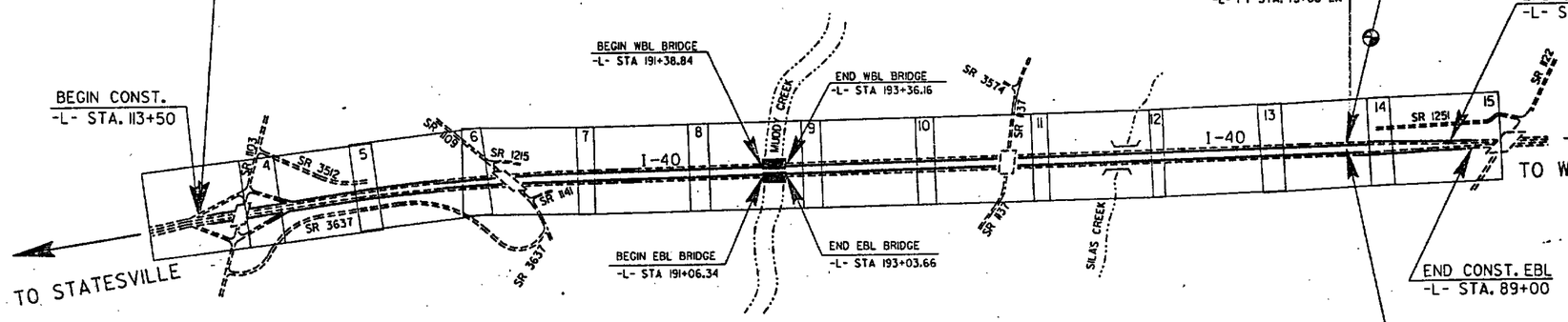
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.1610402	1	165

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
[redacted]	[redacted]	R/W, UTIL, CONST.
8.1610402		

-L- I-40 STA. 113+50 BEGIN STATE PROJECT 8.1610402
-L- I-40 STA. 113+50 BEGIN F. A. PROJECT [redacted]

-L- PT STA. 271+46.52 LB=
-L- PT STA. 75+00 LA

END CONST. WBL
-L- STA. 86+50



-L- I-40 STA. 75+00 END STATE PROJECT 8.1610402
-L- I-40 STA. 75+00 END F. A. PROJECT [redacted]

NOTE: THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED TO INTERCHANGES

PROJECT NO	ROAD NUMBER	
8.1610402	I-40 From WEST OF SR 1103 TO WINSTON-SALEM. SR 1122 WEST OF	
	I-40	
SECONDARY ROAD	SR-1103 to SR-1122	

PRESENTED FOR REGISTRATION AND RECORDED
DEPARTMENT OF TRANSPORTATION
FEB 22 A11:58
L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C. $5.00

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Pauline Wright, do hereby certify that this is a true and correct copy of Plan Sheet 1 of the Minutes of the Board of Transportation, Addendum 11 dated February 4, 1994 and identified as 8.1610402 and I have hereunto set my hand this the 14 day of February, 1994.
Custodian of Minutes of Board of Transportation

GRAPHIC SCALES

50 25 0 50 100 — PLANS
50 25 0 50 100 — PROFILE (HORIZONTAL)
10 5 0 10 20 — PROFILE (VERTICAL)

DESIGN DATA

ADT 1990 = 30,200 - 34,500
ADT 2010 = 51,100 - 58,300
DHV = 10%
D = 60%
T = 20%
V = 60 MPH

PROJECT LENGTH

LENGTH ROADWAY F.A. PROJECT	[redacted]	= 2.955 MILES
LENGTH STRUCTURE F.A. PROJECT	[redacted]	= 0.037 MILES
TOTAL LENGTH STATE PROJECT	8.1610402	= 2.992 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1990 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: SEPTEMBER 30, 1992
LETTING DATE: JANUARY 18, 1994

J. D. COCHRAN, P. E. — PROJECT ENGINEER
S. A. DRUM, P. E. — PROJECT DESIGN ENGINEER

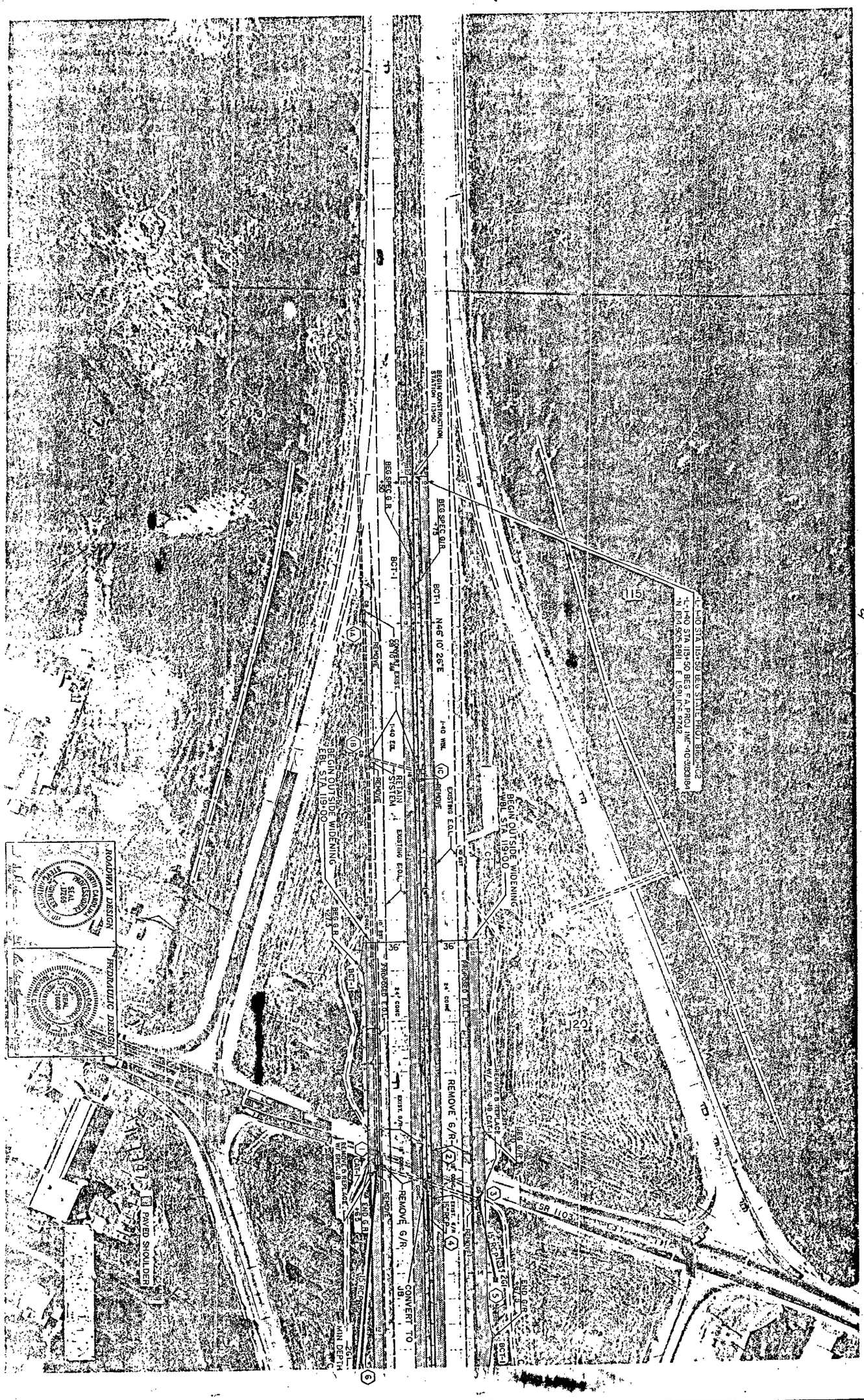
HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HINESLEY
Randall C. Hinesley P.E. — SIGNATURE — 10-26-93

ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM
S. A. Drum P.E. — SIGNATURE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
D R Morton P.E.
STATE HIGHWAY ENGINEER - DESIGN

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Roy C Shelton
APPROVED FOR DIVISION ADMINISTRATOR — 12-2-93 DATE

25-OCT-1993 14:02
/usr/rdy/109110/gpk/1911c.rsh
copy c.11



PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	4	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

PRESENTED FOR REGISTRATION AND RECORDED

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Pauline Wright, do hereby certify that this is a true and correct copy of Plan Sheet 4 of the final plans for Project 8.1610402, identified as Addendum 11 [illegible] on file in [illegible] of the 4 day of February, 19 94, Board of Tra[illegible] ing. IN TESTIMO[illegible], I have hereunto set my hand this the 14 day of February, 19 94.

94 FEB 22 A11 [illegible]

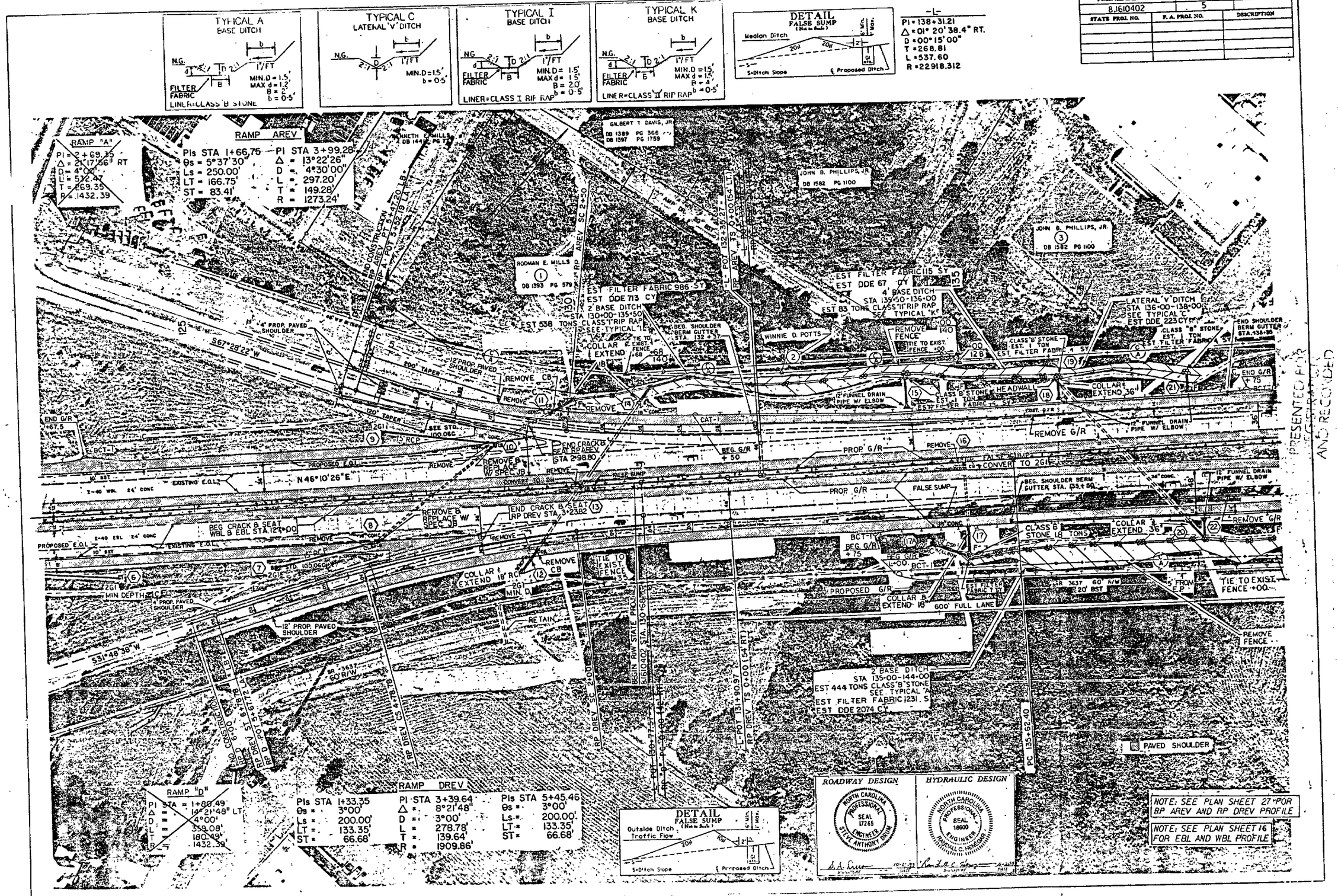
DEPARTMENT OF TRANSPORTATION

Pauline Wright

Custodian of Minutes of Board of Transportation

BE SPEAS
REGISTER OF DEEDS
FORSYTH CO N.C.
$30

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	5	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION



PRESENTED FOR REGISTRATION AND RECORDED

'94 FEB 22 AM 11:50

LEE A. SPEARS
REGISTER OF DEEDS
FORSYTH CO. N.C.

$5.00

519

DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Pauline S. Swaggerty, do hereby certify that this is a true and correct copy of the final plans for Project 8.1610402 identified as Plan Sheet 11 to the minutes of the 4 day of February 19 94, Board of Transportation meeting IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

Pauline S. Swaggerty

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	6	

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

DETAIL FALSE SUMP (Not to Scale)

Outside Ditch — Traffic Flow; 20:1; 10:1; 2'; 6" Min. 1' Max.; S=Ditch Slope; ℄ Proposed Ditch

-L-
PI = 138+31.21
Δ = 01° 20' 38.4" RT.
D = 00° 15' 00"
T = 268.81
L = 537.60
R = 22918.312

-WBL-
PI Sta 150+20.55
Δ = 5° 14' 53.44" (RT)
D = 0° 17' 06.93"
L = 1,839.81'
T = 920.55'
R = 20,085.67140'
PC Sta 141+00.00
PT Sta 159+39.81

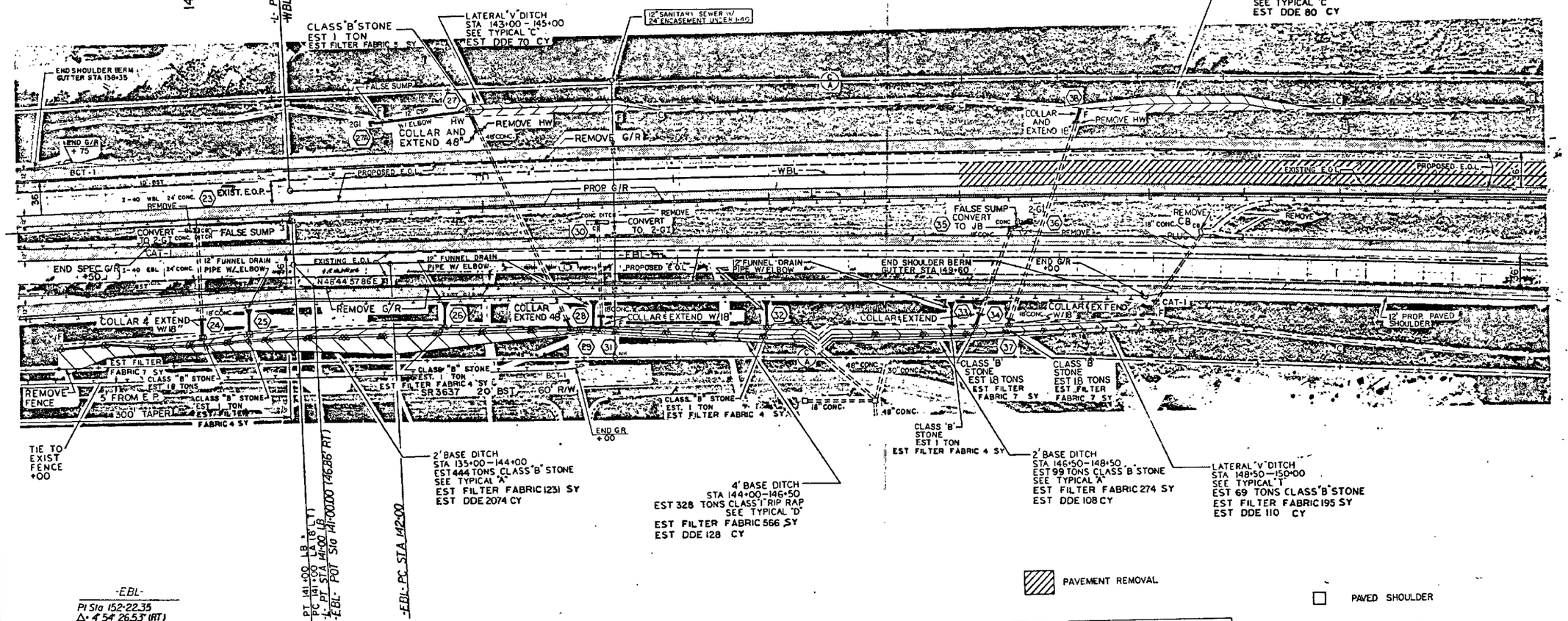
-L-
PI = 153+29.38
Δ = 06° 08' 20" RT.
D = 00° 14' 59.7"
T = 1229.38
L = 2456.41
R = 22926.312

DETAIL FALSE SUMP (Not to Scale)

Median Ditch; 20:; 20:1; 2'; 6" Min. 1' Max.; S=Ditch Slope; ℄ Proposed Ditch

ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRIN — SIGNATURE — DATE 10/24/93

HYDRAULIC DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 18600 ENGINEER RANDALL C. HENSON — SIGNATURE — DATE 10-25-93



-EBL-
PI Sta 152+22.35
Δ = 4° 54' 26.53" (RT)
D = 0° 14' 24.54"
L = 2,043.45'
T = 1,022.35'
R = 23,858.239'
PC Sta 142+00.00
PT Sta 162+43.45

PAVEMENT REMOVAL

PAVED SHOULDER

TYPICAL A — BASE DITCH
NG; d; 2:1; D; 2:1; b; 1'/FT; FILTER FABRIC; B; MIN D = 1.5', MAX d = 1.2', B = 2', b = 0.5'; LINE = CLASS "B" STONE

TYPICAL C — LATERAL V DITCH
NG; D; 2:1; 2:1; b; 1'/FT; MIN. D = 1.5', b = 0.5'

TYPICAL D — BASE DITCH
NG; d; 2:1; D; 2:1; b; 1'/FT; FILTER FABRIC; B; MIN D = 2.5', MAX d = 2.0', B = 4', b = 0.5'; LINER = CLASS I RIP RAP

TYPICAL T — LATERAL "V" DITCH (Not to Scale)
Natural Ground; d; 2:1; D; 2:1; b; 1'/FT; Fill Slope; Min. D = 1.5 Ft.; Max. d = 1.5 Ft.; b = 0.5 Ft.; Type of Liner = CLASS "B" STONE & FILTER FABRIC

NOTE: SEE PLAN SHEET 17 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Pauline Pilney, do hereby certify that this is a true and correct copy of Plan Sheet 6 of the final plans for Project B-1610402, identified as Addendum 11 to the contract between the State of North Carolina and the Board of Transportation, dated the 4 day of February, 19 94, in my office in the City of Raleigh, IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

Pauline Pilney

PRESENTED FOR REGISTRATION AND RECORD FEB 22 A11:50

L.E. SPEAS REGISTER OF DEEDS #50

DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

520

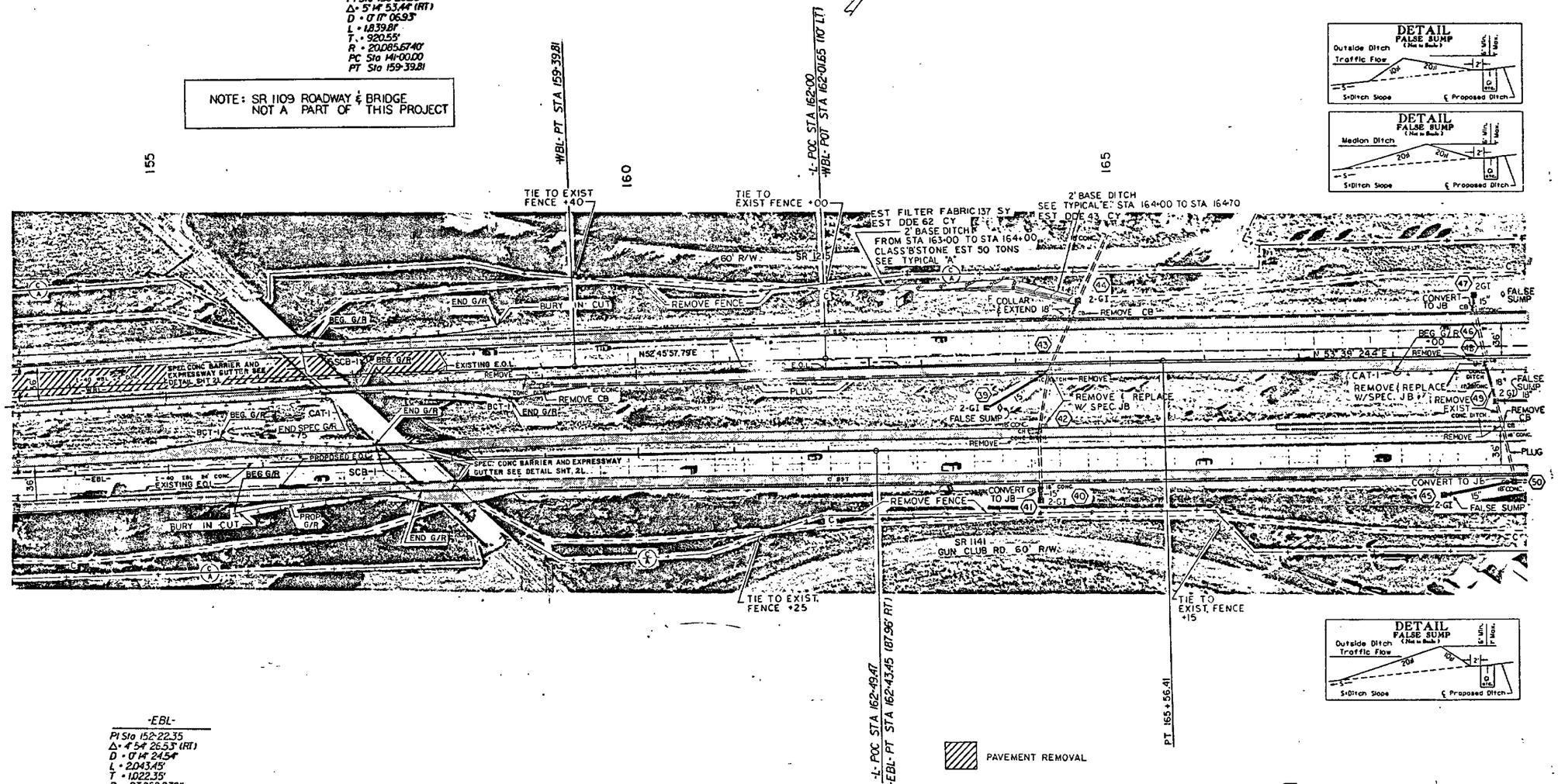
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	7	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

521

-L-
PI = 153+29.38
Δ = 06° 08' 20" RT.
D = 00° 14' 59.7"
T = 1229.38
L = 2456.41
R = 22926.312

-WBL-
PI Sta 150+20.55
Δ = 5° 14' 53.44" (RT)
D = 0° 17' 06.93"
L = 1,839.81'
T = 920.55'
R = 20,085.6740'
PC Sta 141+00.00
PT Sta 159+39.81

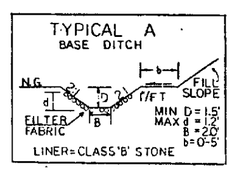
NOTE: SR 1109 ROADWAY & BRIDGE NOT A PART OF THIS PROJECT

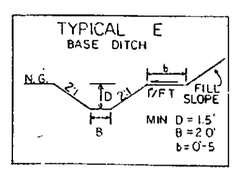


-EBL-
PI Sta 152+22.35
Δ = 4° 54' 26.53" (RT)
D = 0° 14' 24.54"
L = 2,043.45'
T = 1,022.35'
R = 23,858.239'
PC Sta 142+00.00
PT Sta 162+43.45

PAVEMENT REMOVAL

PAVED SHOULDER





ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER — STATE OF NORTH CAROLINA

HYDRAULIC DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER — RANDALL C. HOJECKER

NOTE: SEE PLAN SHEET 1B FOR EBL AND WBL PROFILE

PRESENTED FOR REGISTRATION AND RECORDED

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
of Plan Sheet 11, do hereby certify that this is a true and correct copy of the final plans for Project 8.1610402 identified as Addendum 1 dated February 9, 1994.
Witness my hand this the 14 day of February, 1994.

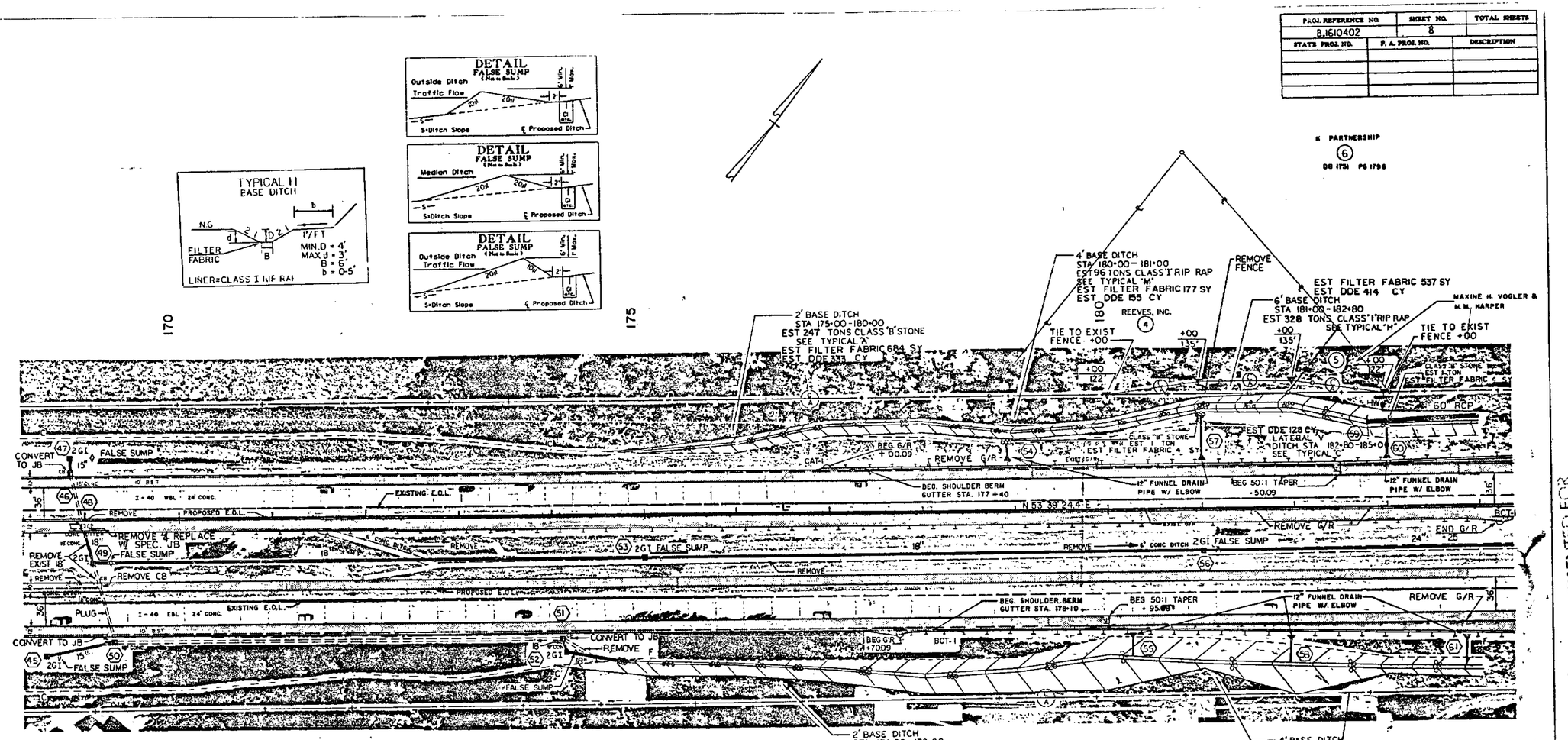
FEB 22 '94 11 PM
DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation.

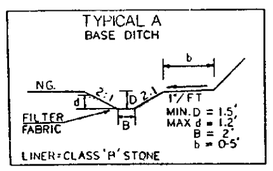
REGISTER OF DEEDS
FORSYTH CO. N.C.
4500 Lacy Drive

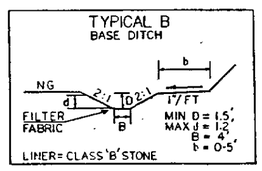
522

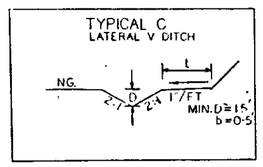
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	8	

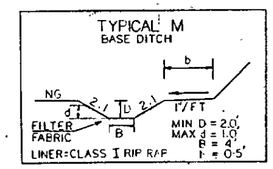
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION











ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM	NORTH CAROLINA PROFESSIONAL SEAL 16000 ENGINEER RANDALL C. HENDRICK
S. A. Drum 2/11/94 SIGNATURE DATE	Randall C. Hendrick 10-27-93 SIGNATURE DATE

NOTE: SEE PLAN SHEET 19 FOR EBL AND WBL PROFILE

PRESENTED FOR REGISTRATION AND RECORDED

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

FEB 22 1994 11:5

DEPARTMENT OF TRANSPORTATION

Custodian of Minutes of Board of Transportation

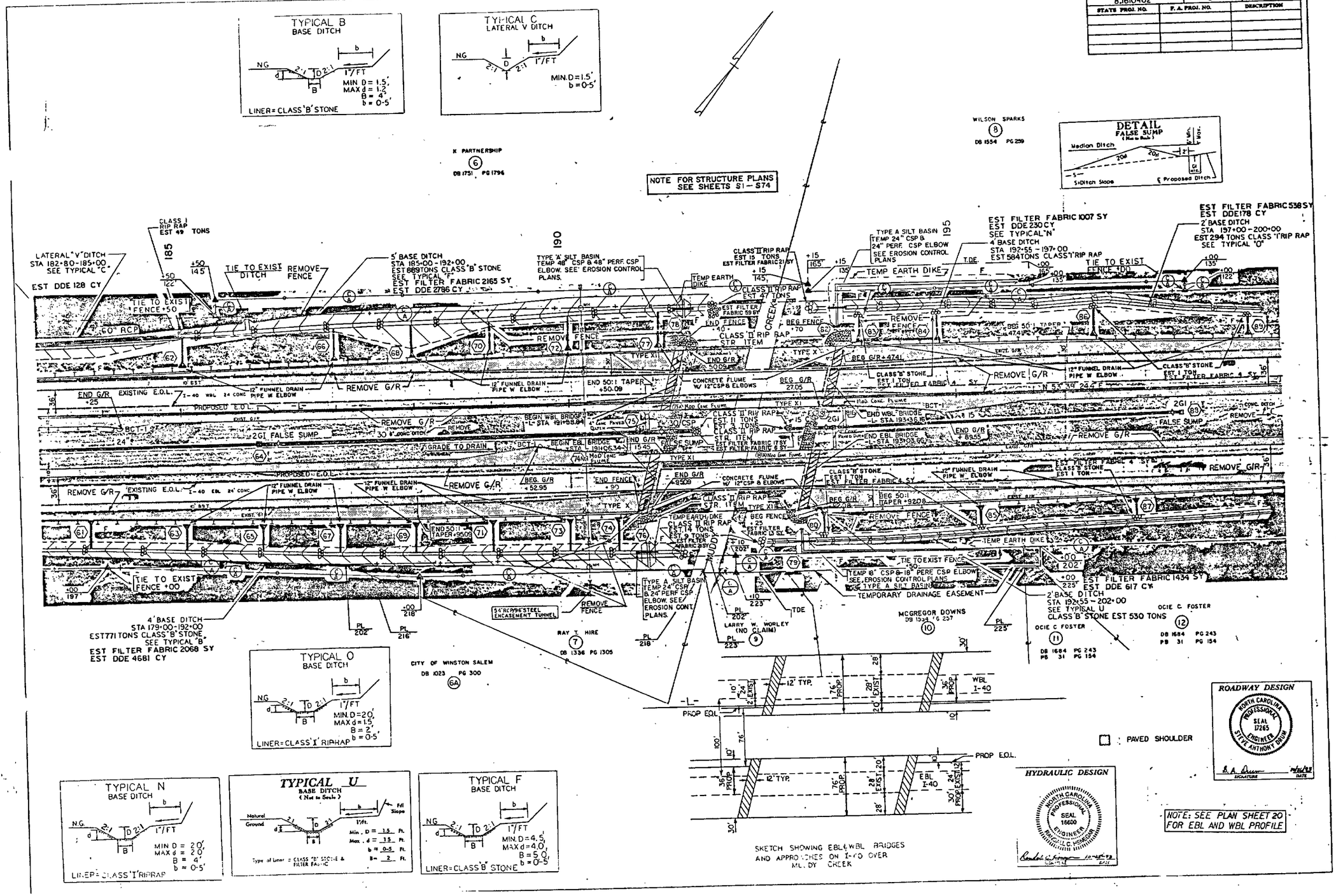
Addendum to Plan Sheet 11, do hereby certify that this is a true and correct copy of the final plans for Project 8.1610402 identified in the minutes on file in the office of the Board of Transportation, Raleigh, N.C.

Witness my hand this the 14 day of February, 1994.

REGISTER OF DEEDS FORSYTH CO., N.C.

#5

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	9	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION



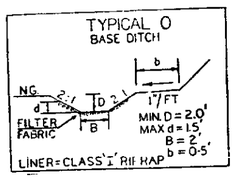
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

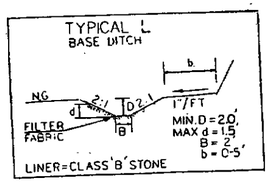
I, Pauline J. Wright, do hereby certify that this is a true and correct copy of Plan Sheet 8.1610402 of the final plans for Project ... identified as Addendum 11 ... 19 94, Board of Transfer ... 14 day of February, 19 94.

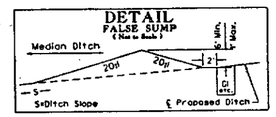
Pauline J. Wright
Custodian of Minutes, State Board of Transportation

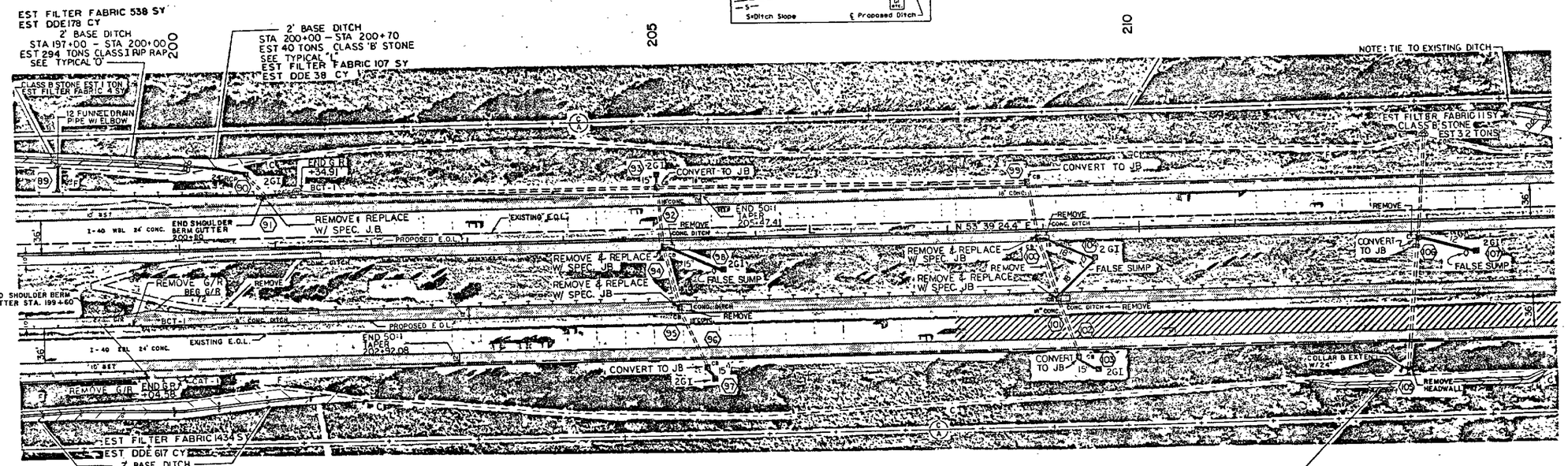
PRESENTED FOR REGISTRATION
DEPARTMENT OF TRANSPORTATION
REGISTRATION COUNTY
FEB 22 AM 11:50
L.E. SPEAS
REGISTER OF DEEDS #5
WAKE COUNTY, N.C.

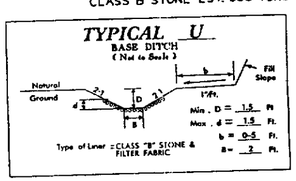
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	10	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

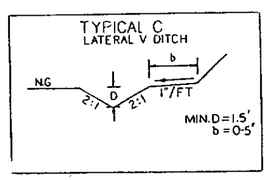












PAVEMENT REMOVAL

PAVED SHOULDER

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DUCKER	NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HOWARD
SIGNATURE 1-6-99 DATE	SIGNATURE 10-28-98 DATE

NOTE: SEE PLAN SHEET 21 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

do hereby certify that this is a true and correct copy of Plan Sheet 10 of the final plans for Project 8.1610402, identified as Addendum 11 of plans [illegible] 4 day of February 19 99, Board of [illegible] 22 day of February 19 94 my hand this the 14 day of February 19 94.

PRESENTED FOR REGISTRATION AND RECORDED

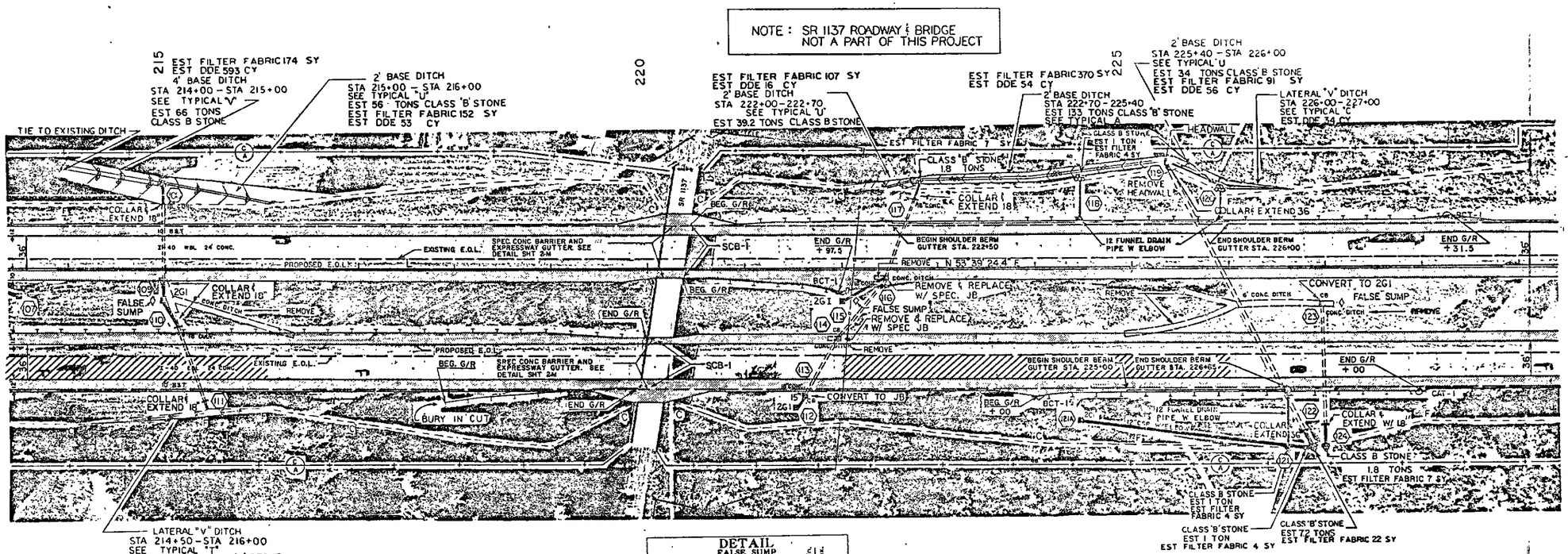
L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.

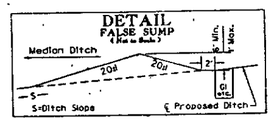
DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

525

NOTE : SR 1137 ROADWAY & BRIDGE NOT A PART OF THIS PROJECT

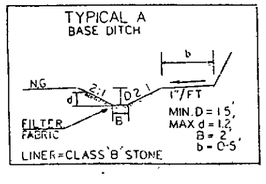


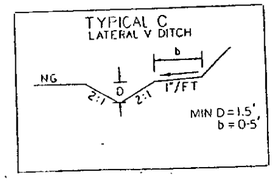


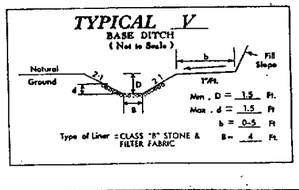
PAVEMENT REMOVAL

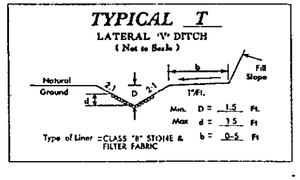
ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM	NORTH CAROLINA PROFESSIONAL SEAL 16500 ENGINEER RANDALL C. MENGER
SIGNATURE 10/26/93 DATE	SIGNATURE 10-26-93 DATE

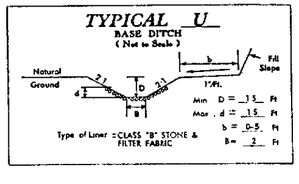
PAVED SHOULDER











NOTE: SEE PLAN SHEET 22 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, [signature], do hereby certify that this is a true and correct copy of Plan Sheet 11 of the final plans for Project 8.1610402 identified as Addendum, ____ Exhibit ____ of the ____ day of February 19 94, Board of Transportation Minutes, ____ IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

PRESENTED FOR REGISTRATION AND RECORDED

DEPARTMENT OF TRANSPORTATION

[signature] Secretary

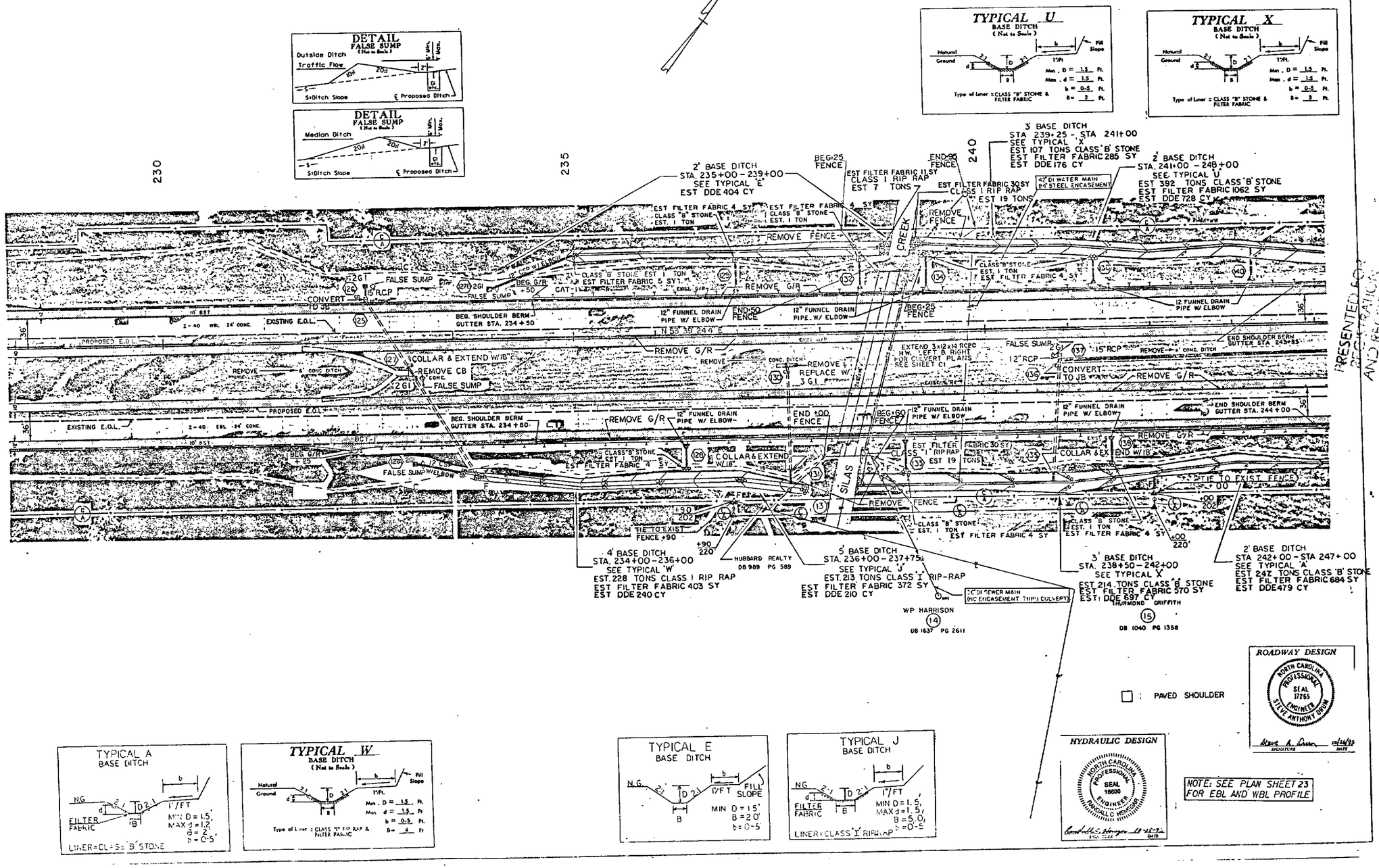
FEB 22 A11 50

Board of Transportation Minutes

L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.
#50 Karen Franklin

526

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	12	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION



PRESENTED FOR REGISTRATION AND RECORDED

'94 FEB 22 A11:

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, _____, do hereby certify that this is a true and correct copy of Plan Sheet 12 of the final plans for Project 8.1610402 identified as Addendum 11 to the minutes on file in my office of the Board of Transportation, 19 94, in TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

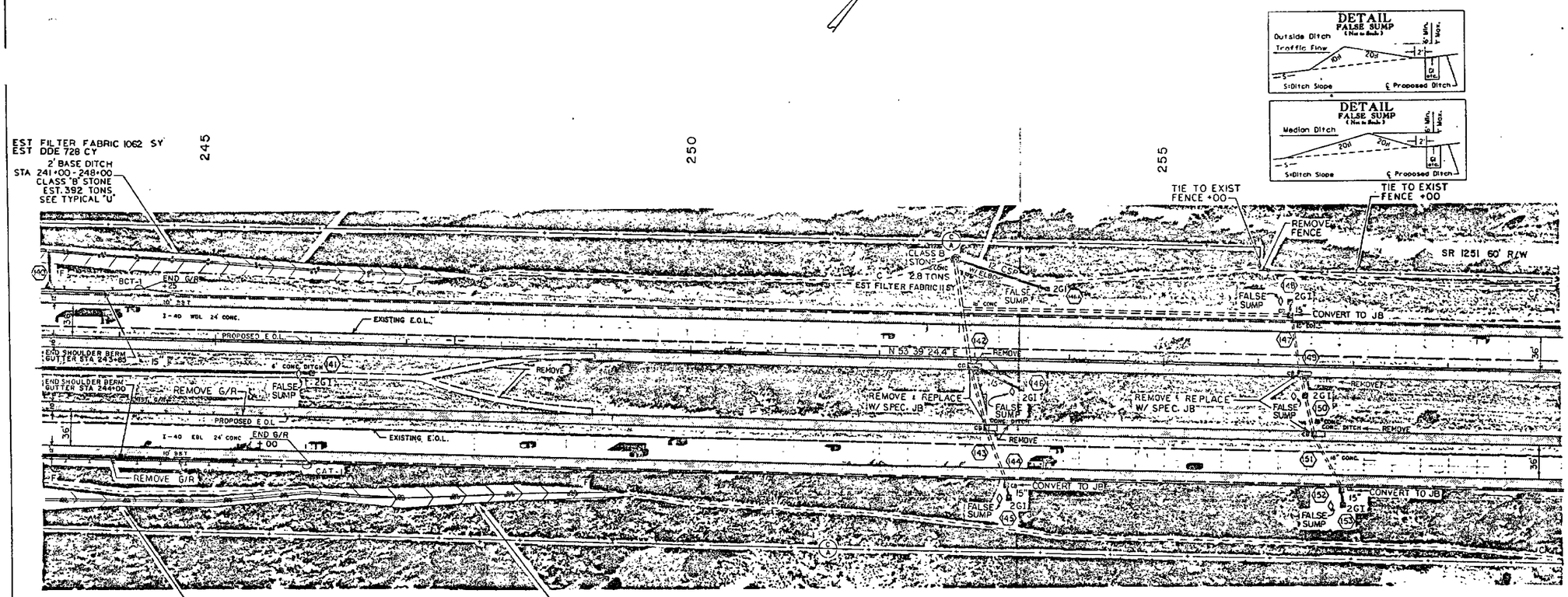
DEPARTMENT OF TRANSPORTATION

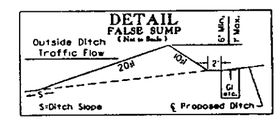
Custodian of Minutes of Board of Transportation

REGISTER OF DEEDS WAKE COUNTY, N.C. #58

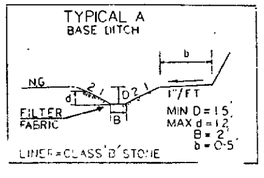
527

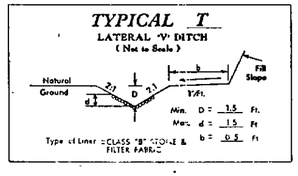
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	13	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

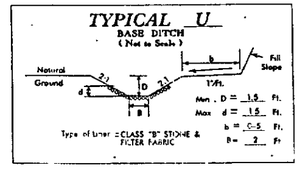




☐ PAVED SHOULDER







ROADWAY DESIGN

NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DAVIS

10/16/92

HYDRAULIC DESIGN

NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RONALD C. HENDSON

10-15-92

NOTE: SEE PLAN SHEET 24 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Sandra Wright, do hereby certify that this is a true and correct copy of Plan Sheet 13 of the final plans for Project 8.1610402 identified as Addendum 11 to the minutes entered in my office on the 14 day of February 19 94, Board of Transportation Minutes, IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 1994.

Sandra Wright

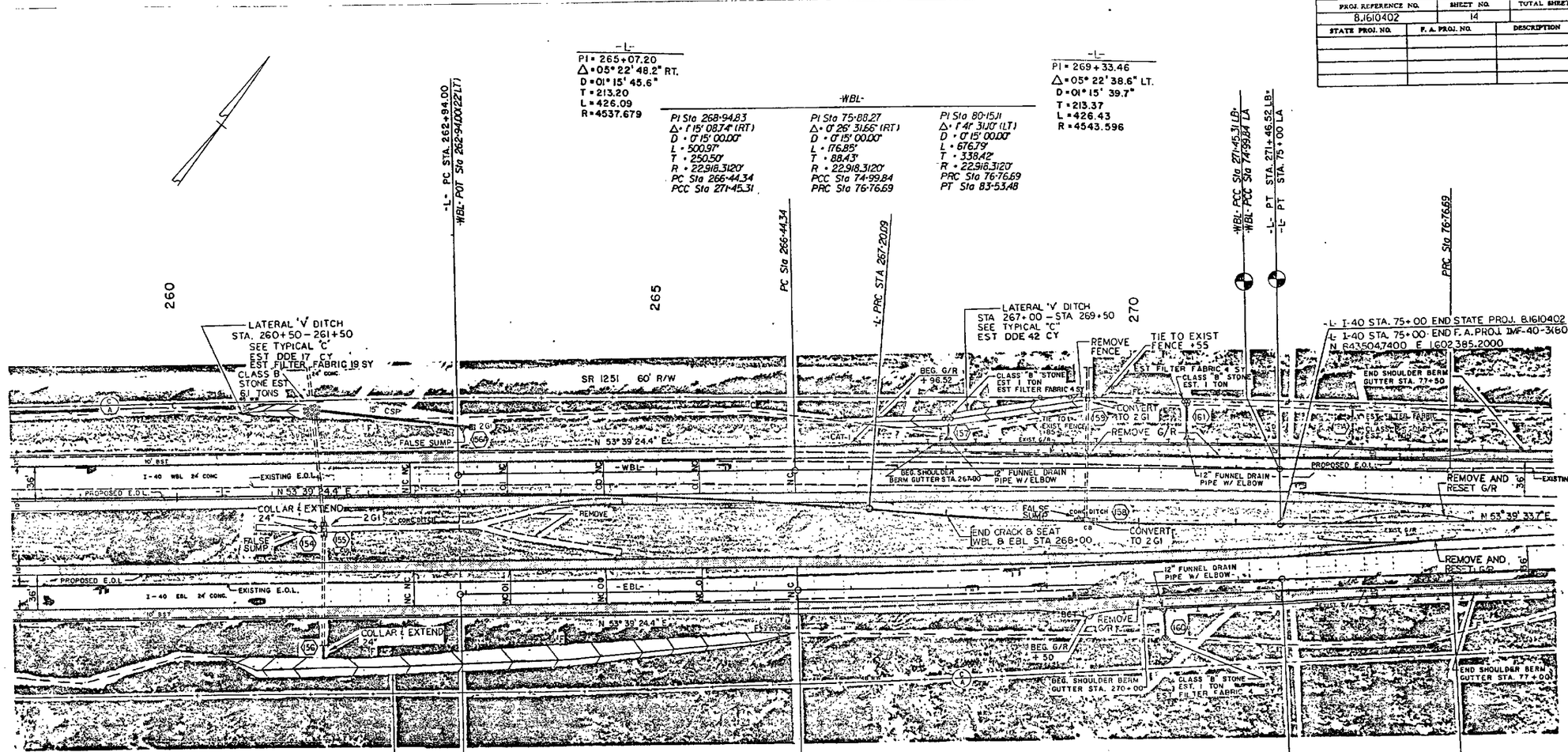
DEPARTMENT OF TRANSPORTATION
RECEIVED
Sandra Wright
Custodian of Minutes of Board of Transportation

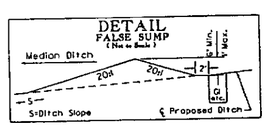
'94 FEB 22 AM 11 58

L.E. SPEAS
REGISTER OF DEEDS

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	14	

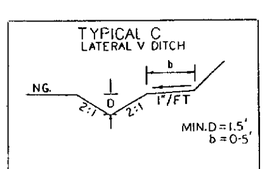
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION





-EBL-

PI Sta 268-95.33	PI Sta 75+88.00	PI Sta 80+14.84
Δ = 1° 14' 59.56" (LT)	Δ = 0° 26' 26.97" (LT)	Δ = 1° 41' 35.83" (RT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 499.95'	L = 176.33'	L = 677.31'
T = 249.99'	T = 88.17'	T = 338.68'
R = 22,918.3120'	R = 22,918.3120'	R = 22,918.3120'
PC Sta 266+45.35	PCC Sta 74+99.83	PRC Sta 76+76.16
PCC Sta 271+45.30	PRC Sta 76+76.16	PT Sta 83+53.48



ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRIM

HYDRAULIC DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HOOPER

☐ PAVED SHOULDER

NOTE: SEE PLAN SHEET 25 FOR EBL AND WBL PROFILE

528

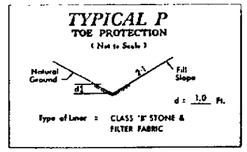
PRESENTED FOR REGISTRATION AND RECORDED
DEPARTMENT OF TRANSPORTATION
FEB 22 1994
Custodian of Minutes of Board of Transportation

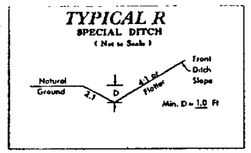
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, L.E. Spears, do hereby certify that this is a true and correct copy of Plan Sheet 14 of the final plans for Project 8.1610402, identified as Addendum 11 to the minutes on file in my office of the Board of Transportation, this the 14 day of February, 19 94.
IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

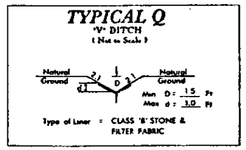
L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.

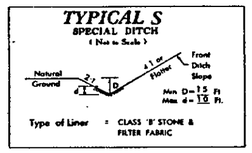
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	15	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

529



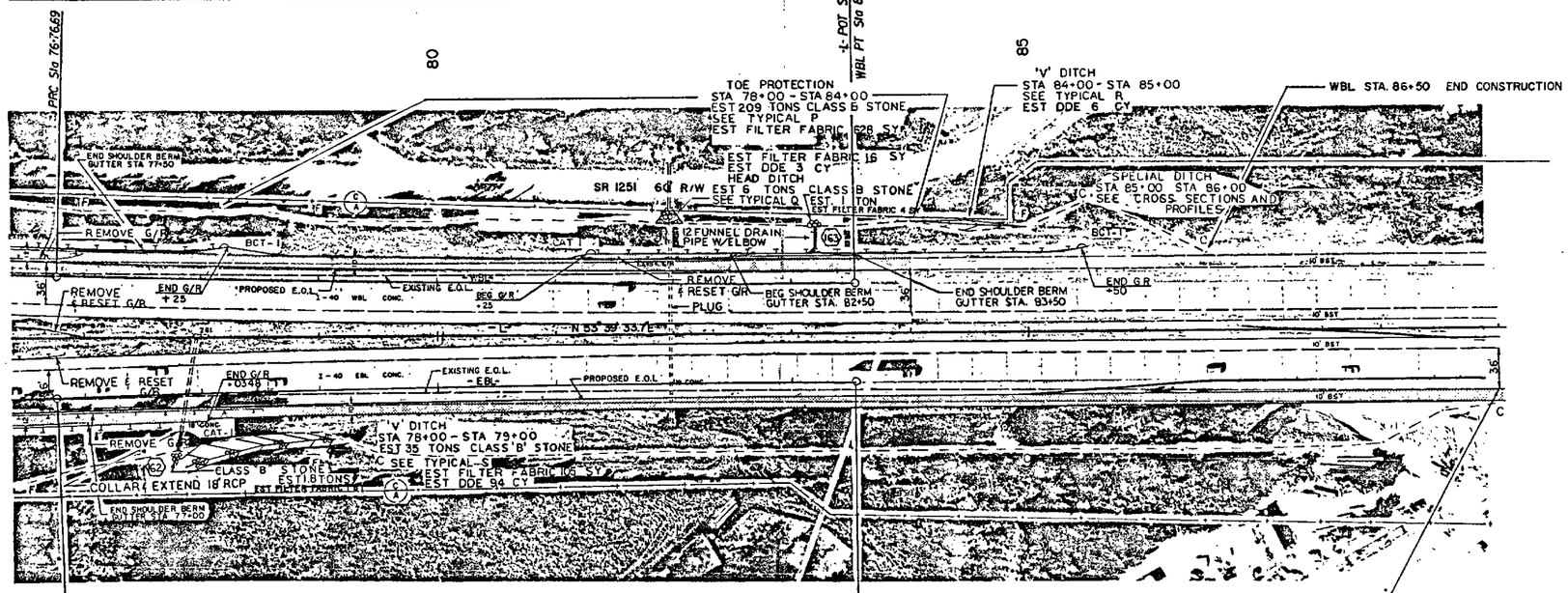






-WBL-

PI Sta 268+94.83	PI Sta 75+88.27	PI Sta 80+15.11
Δ = 1° 15' 06.74" (RT)	Δ = 0° 26' 31.66" (RT)	Δ = 1° 41' 31.10" (LT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 500.97'	L = 176.85'	L = 676.79'
T = 250.50'	T = 88.43'	T = 338.42'
R = 22,918.3120'	R = 22,918.3120'	R = 22,918.3120'
PC Sta 266+44.34	PCC Sta 74+99.84	PRC Sta 76+76.69
PCC Sta 271+45.31	PRC Sta 76+76.69	PT Sta 83+53.48



-EBL-

PI Sta 268+95.33	PI Sta 75+88.00	PI Sta 80+14.84
Δ = 1° 14' 59.56" (LT)	Δ = 0° 26' 26.97" (LT)	Δ = 1° 41' 35.83" (RT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 499.95'	L = 176.33'	L = 677.31'
T = 249.99'	T = 88.17'	T = 338.68'
R = 22,918.3120'	R = 22,918.3120'	R = 22,918.3120'
PC Sta 266+45.35	PCC Sta 74+99.83	PRC Sta 76+76.16
PCC Sta 271+45.30	PRC Sta 76+76.16	PT Sta 83+53.48

☐ PAVED SHOULDER

NOTE: SEE PLAN SHEET 26 FOR EBL AND WBL PROFILE

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVEN ANTHONY GROSS	NORTH CAROLINA PROFESSIONAL SEAL 18800 ENGINEER RANDALL C. HENDRICKS
SIGNATURE DATE	SIGNATURE DATE

PRESENTED FOR REGISTRATION AND RECORDED

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Sandra W. Wright, do hereby certify that this is a true and correct copy of Plan Sheet 15 of the final plans for Project B-1610402, Addendum 11 to the minutes on file in the office of the Board of Transportation as approved at its meeting on the 4th day of February, 19 94, Board of Transportation Minutes. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14th day of February, 19 94.

Sandra W. Wright
Custodian of Minutes of Board

DEPARTMENT OF TRANSPORTATION

REGISTER OF DEEDS
FORSYTH CO. N.C.
Deputy Register