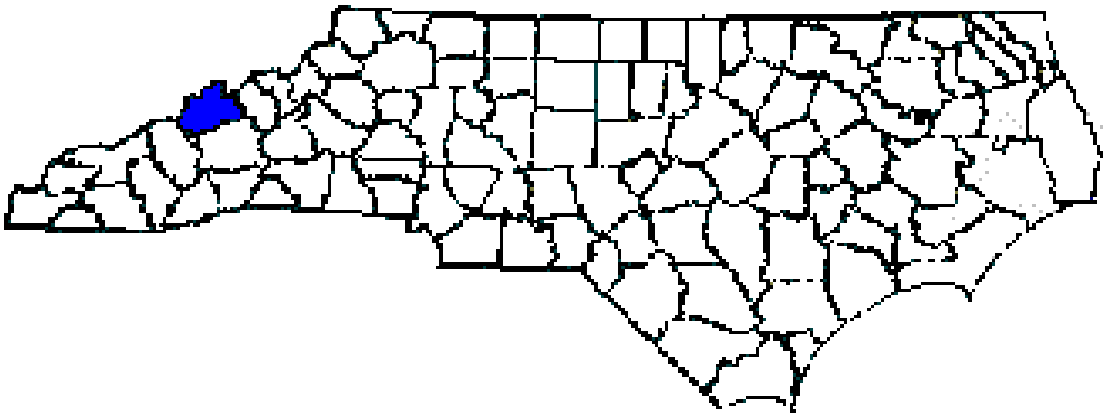
ANNUAL REPORT FOR 2014



Preservation Sites E, G, H, K, L, O, P, Q, and R
Madison County
TIP No. R-2518A
COE Action ID: SAW-2007-2197-357/300
DWQ #: 20071134

Prepared By:
Natural Environment Section & Roadside Environmental Unit
North Carolina Department of Transportation
September 2014

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SUMMARY

The following report summarizes the stream monitoring activities that have occurred during the Year 2014 at the Preservation Sites E, G, H, K, L, O, P, Q, and R in Madison County. This report provides the monitoring results for the third formal year of monitoring (Year 2014). The Year 2014 monitoring period was the third of five scheduled years of monitoring on the Preservation Sites (See Success Criteria Section 2.1).

Based on the overall conclusions of monitoring at the Preservation Sites, these sites have met the required monitoring protocols for the third formal year of monitoring. NCDOT will continue the visual inspection of the Preservation Sites for 2015.

1.0 INTRODUCTION

1.1 Project Description

The following report summarizes the stream monitoring activities that have occurred during the Year 2014 at the Preservation Sites E, G, H, K, L, O, P Q, and R, hereafter known as the "Preservation Sites." The Preservation Sites provide mitigation for stream impacts associated with Transportation Improvement Program (TIP) number R-2518A in Madison County.

The Preservation Sites E, G, H, K, L, O, P, Q, and R provided approximately 13,481 linear feet of stream preservation. The Preservation Sites for A and N provided approximately 627 linear feet of preservation. Preservation photos for mitigation sites A and N will be included in their individual monitoring reports. Stream preservation involved acquiring and fencing the sites within NCDOT right-of-way.

1.2 Purpose

In order for the mitigation sites to be considered successful, the sites must meet the success criteria. This report details the monitoring in 2014 at the Preservation Sites. Hydrologic monitoring was not required for these sites.

1.3 Project History

August 2012	Visual Monitoring
August 2013	Visual Monitoring
July 2014	Visual Monitoring

1.4 Debit Ledger

The entire stream mitigation sites were used for the R-2518A project to compensate for unavoidable stream impacts.

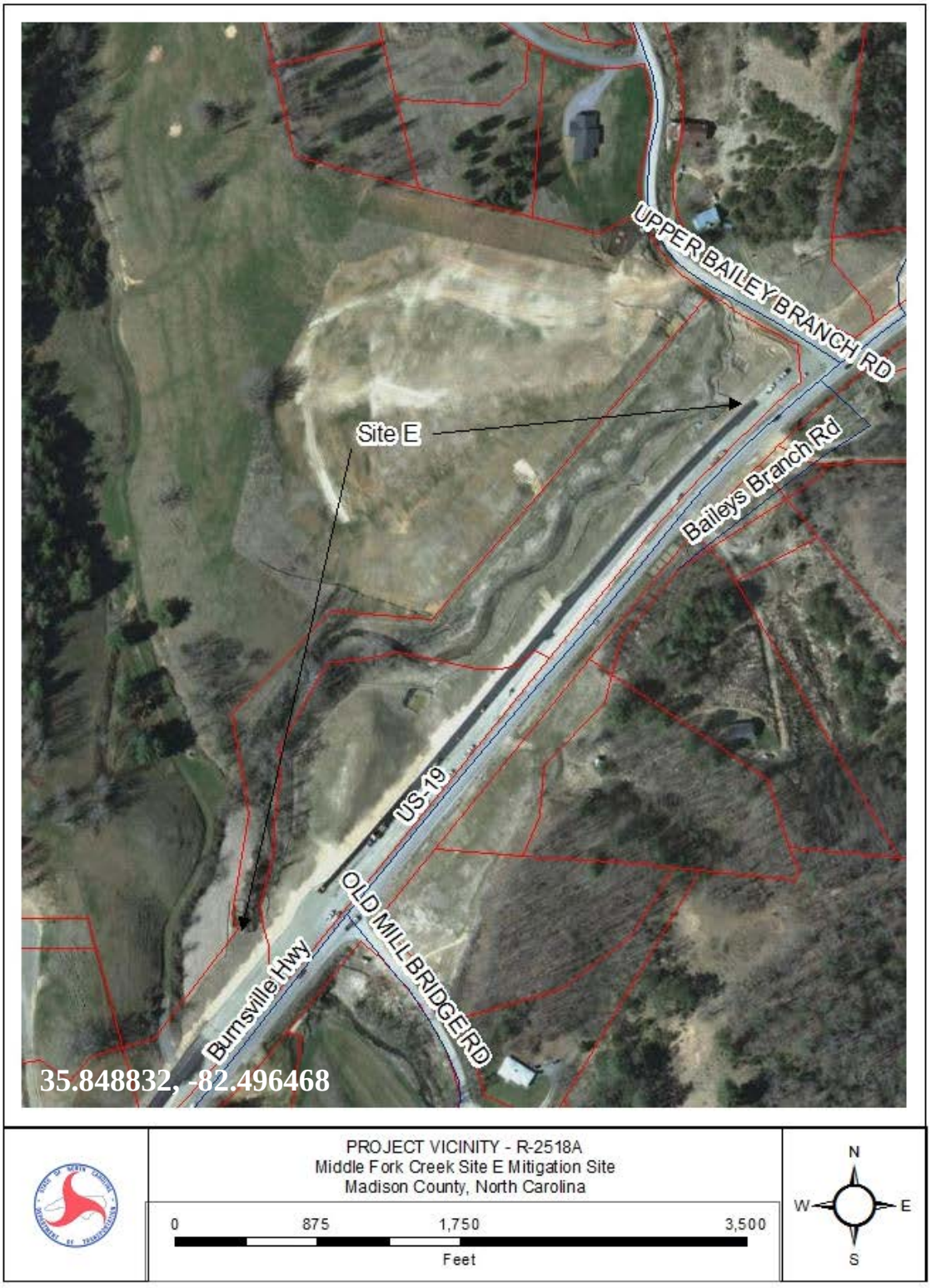


Figure 1. Vicinity Map

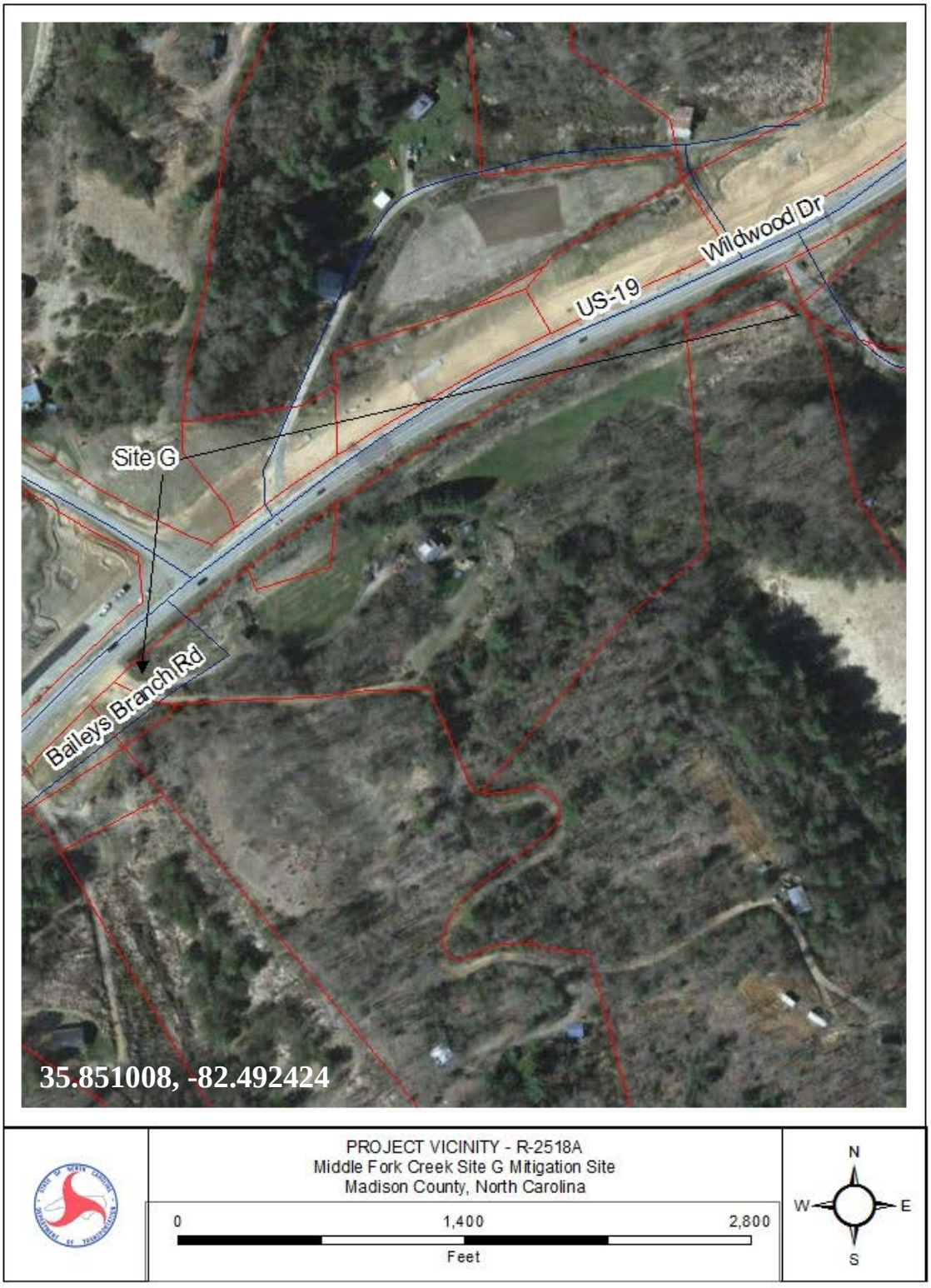


Figure 2. Vicinity Map

Figure 3. Vicinity Map

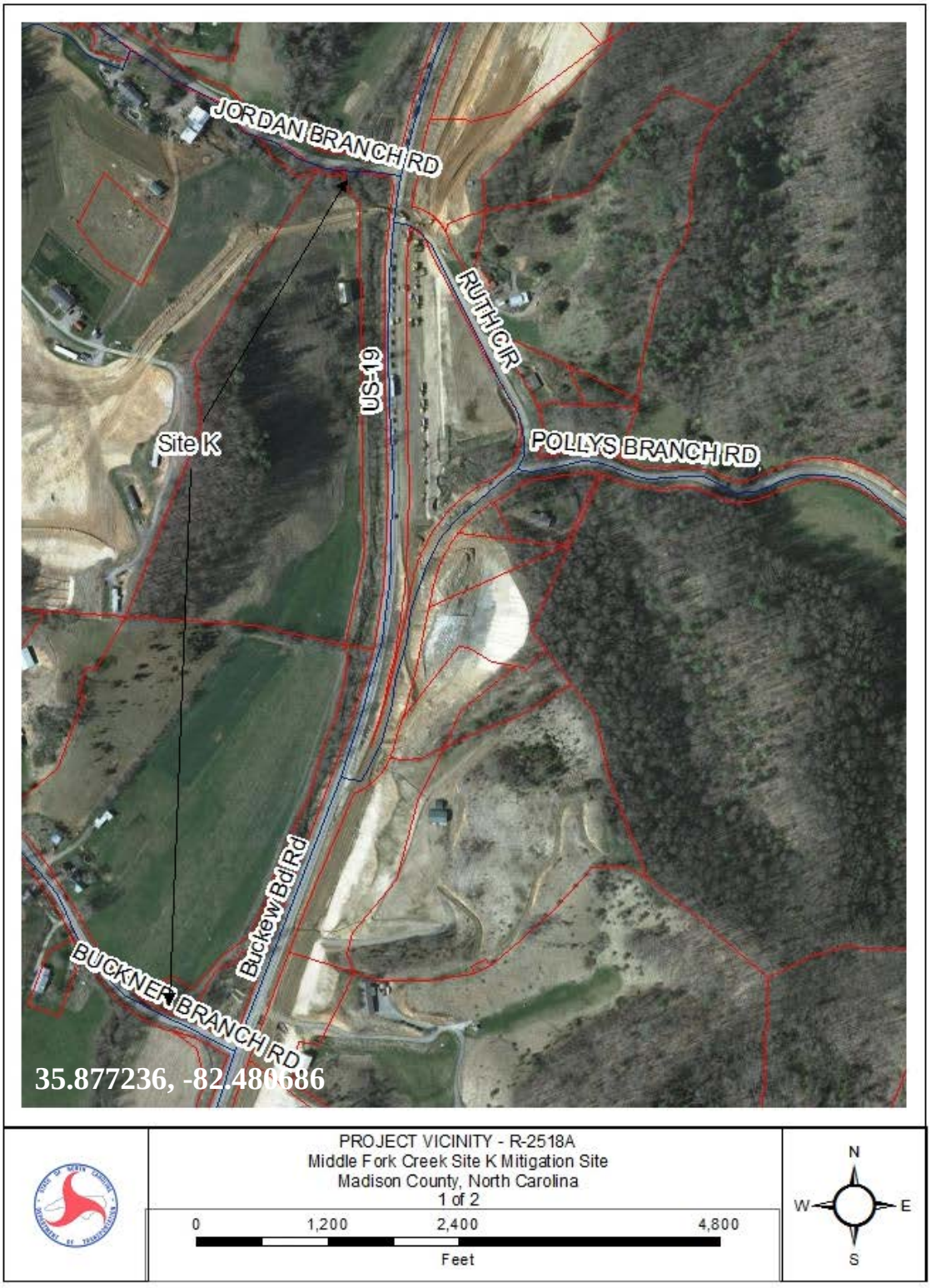


Figure 4. Vicinity Map

Figure 5. Vicinity Map

Figure 6. Vicinity Map

Figure 7. Vicinity Map

Figure 8. Vicinity Map

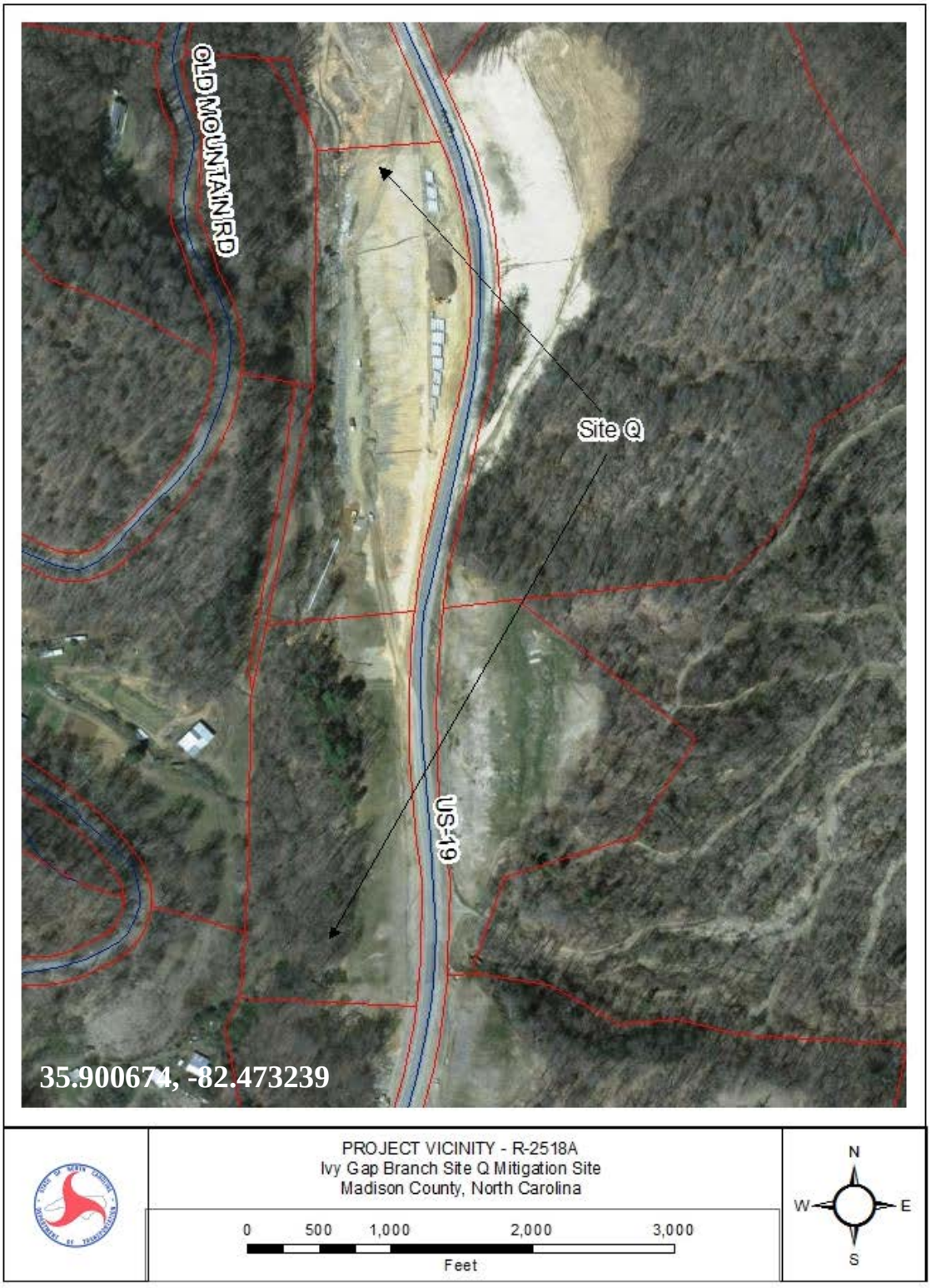


Figure 9. Vicinity Map

Figure 10. Vicinity Map

2.0 STREAM ASSESSMENT

2.1 Success Criteria

Per NCDWQ condition #4, the permittee shall monitor the preservation sites by visual inspection. Photos will be taken and comments noted on plant survival. The monitoring shall be conducted annually for a minimum of five (5) years. The monitoring results shall be submitted to DWQ in a final report within sixty (60) days after completing monitoring. After 5 years the NCDOT shall contact the DWQ to schedule a site visit to "close out" the mitigation site.

2.2 Stream Description

2.2.1 Post-Construction Conditions

The preservation of sites E, G, H, K, L, O, P, Q, and R will involve acquiring and fencing the sites within NCDOT right of way.

2.2.2 Monitoring Conditions

The objective of Preservation Sites E, G, H, K, L, O, P, Q, and R is to preserve the stream and riparian areas.

2.3 Results of the Stream Assessment

2.3.1 Site Data

The assessment included visual inspection of the Preservation Sites. The Preservation Sites were photographed from permanent photo point locations. The sites are being preserved within NCDOT's right-of-way. Except for an herbicide application to a power line easement within the buffer at Site K and R (see photos 8 and 22), there were no encroachments noted during the 2014 monitoring evaluation.

3.0 OVERALL CONCLUSIONS/RECOMMENDATIONS

The Preservation Sites have met the required monitoring protocols for the third formal year of monitoring. NCDOT will continue monitoring the Preservation Sites in 2015.

4.0 REFERENCES

Stream Mitigation Plan, US Highway 19, R-2518A On-Site Mitigation Madison County, North Carolina, August 2006.

Design Plans for R-2518A, US 19 from I-26 to 0.8 KM east of the Yancey Co. Line, Stream Mitigation (Preservation, Enhancement, and Restoration), HSMM.

North Carolina Department of Transportation (NCDOT), April 29, 2008. 404 and 401 Individual Permits for R-2518A and R-2518B (ACOE Permit No. 2007-2197-357/300 and DWQ Project No. 20071134, Individual Certification No. 3706).

APPENDIX A

SITE PHOTOGRAPHS

Preservation Sites

Photo 1 (Site E)

Photo 2 (Site G)

Photo 3 (Site G)

Photo 4 (Site H)

Photo 5 (Site H)

Photo 6 (Site K)

July 2014

Preservation Sites

Photo 7 (Site K)

Photo 8 (Site K)

Photo 9 (Site K)

Photo 10 (Site K)

Photo 11 (Site K)

Photo 12 (Site K)

July 2014

Preservation Sites

Photo 13 (Site L)

Photo 14 (Site O)

Photo 15 (Site O)

Photo 16 (Site O)

Photo 17 (Site O)

Photo 18 (Site P)

July 2014

Preservation Sites

Photo 19 (Site Q)

Photo 20 (Site Q)

Photo 21 (Site Q)

Photo 22 (Site R)

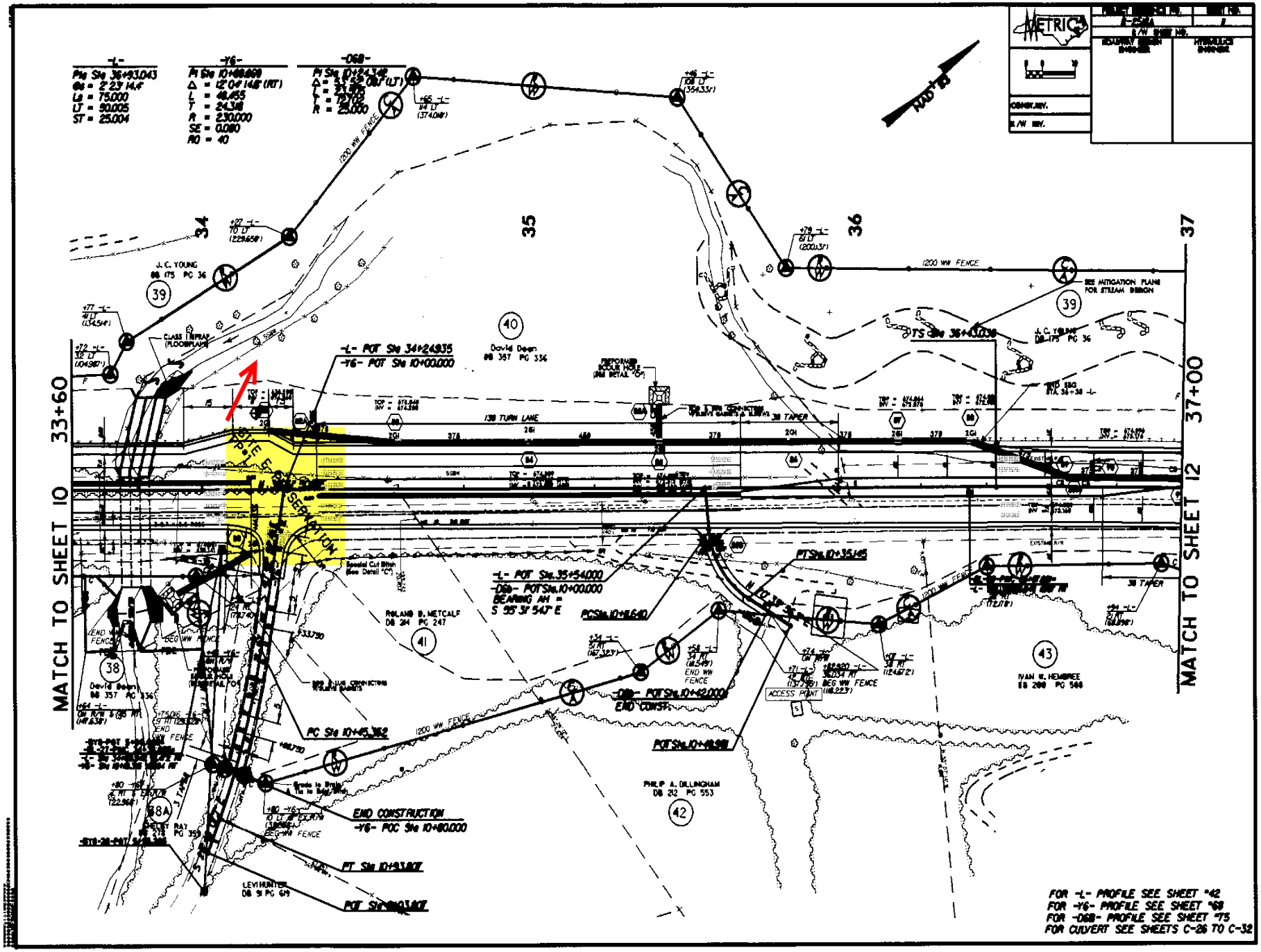
Photo 23 (Site R)

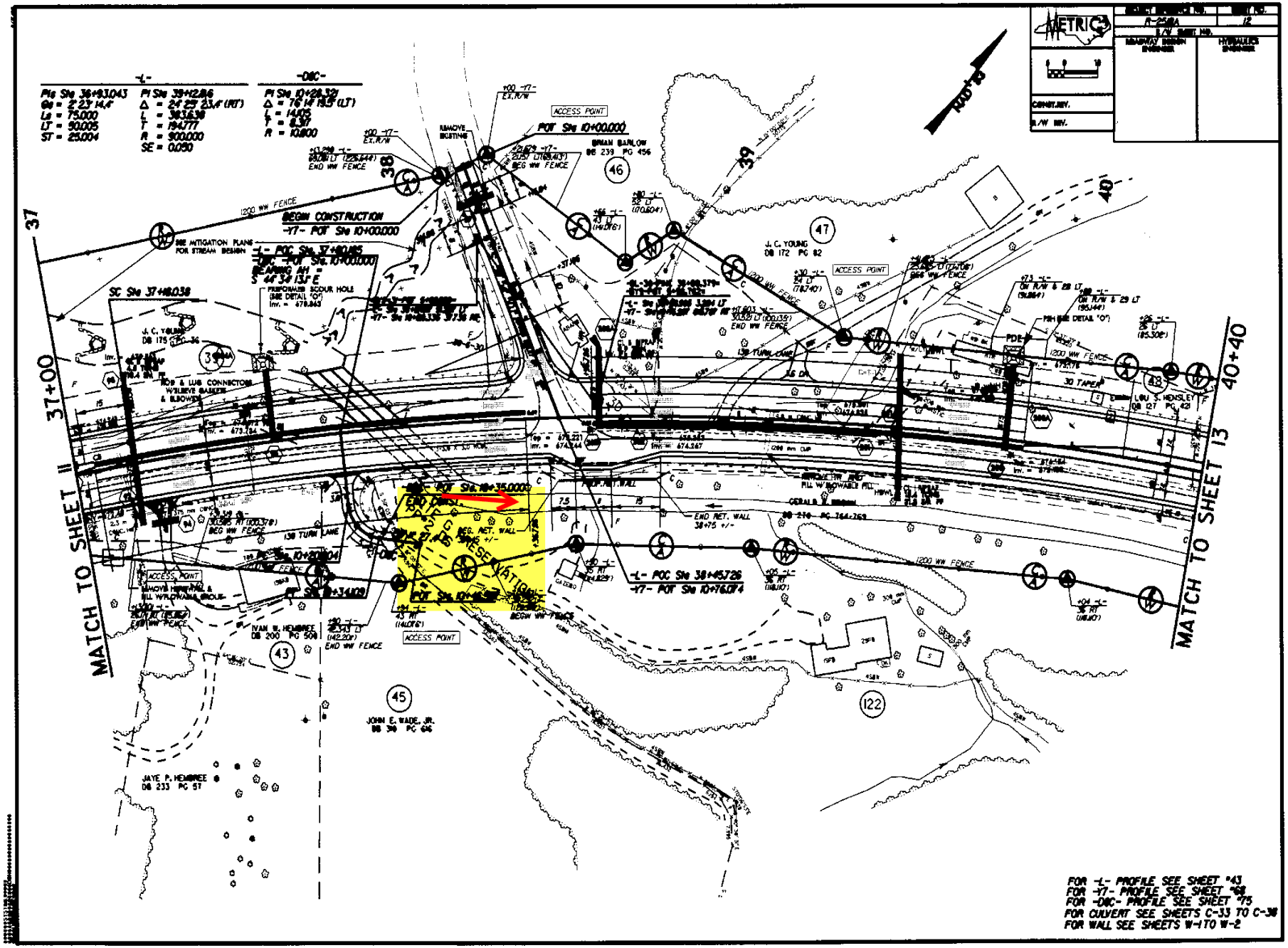
Photo 24 (Site R)

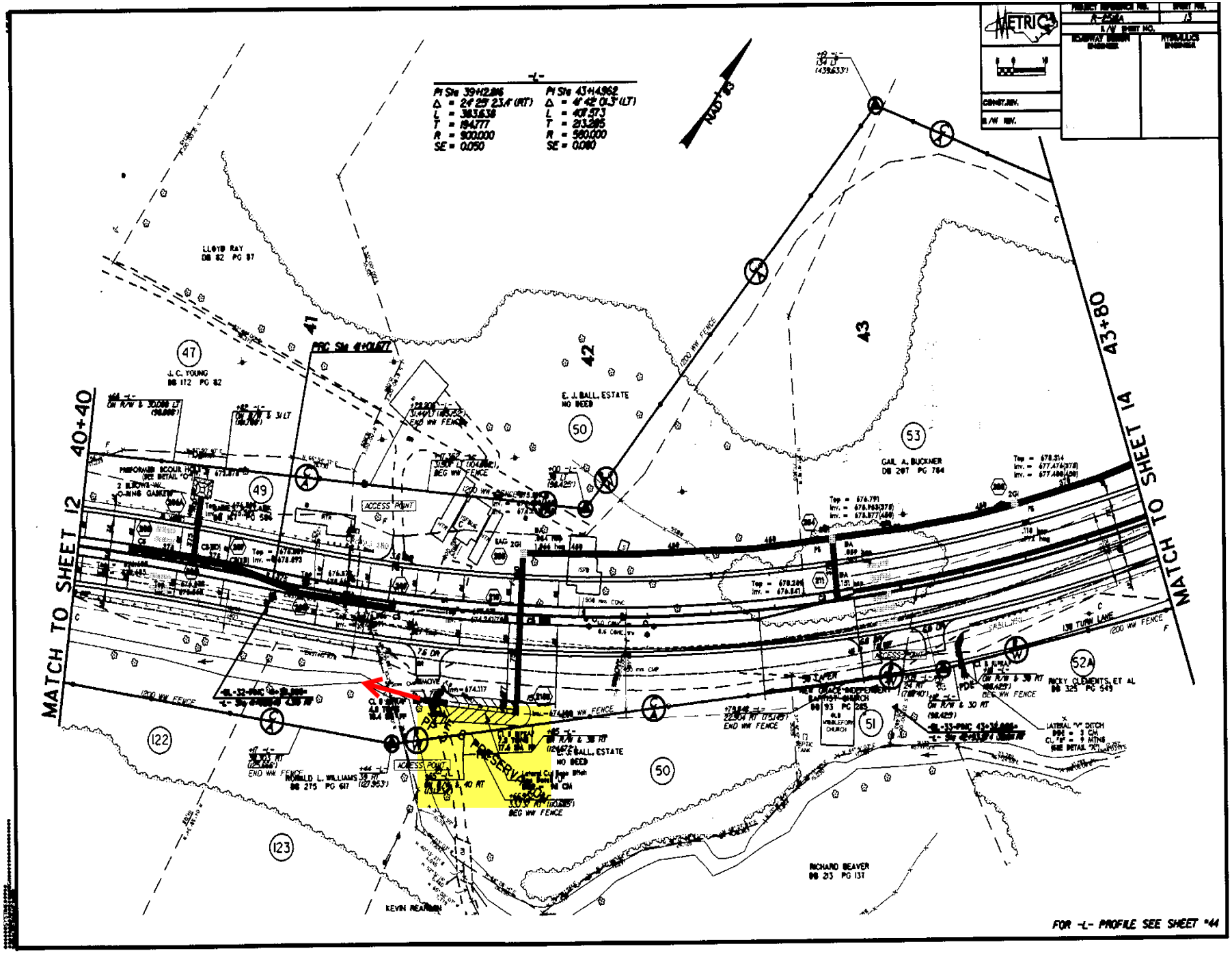
July 2014

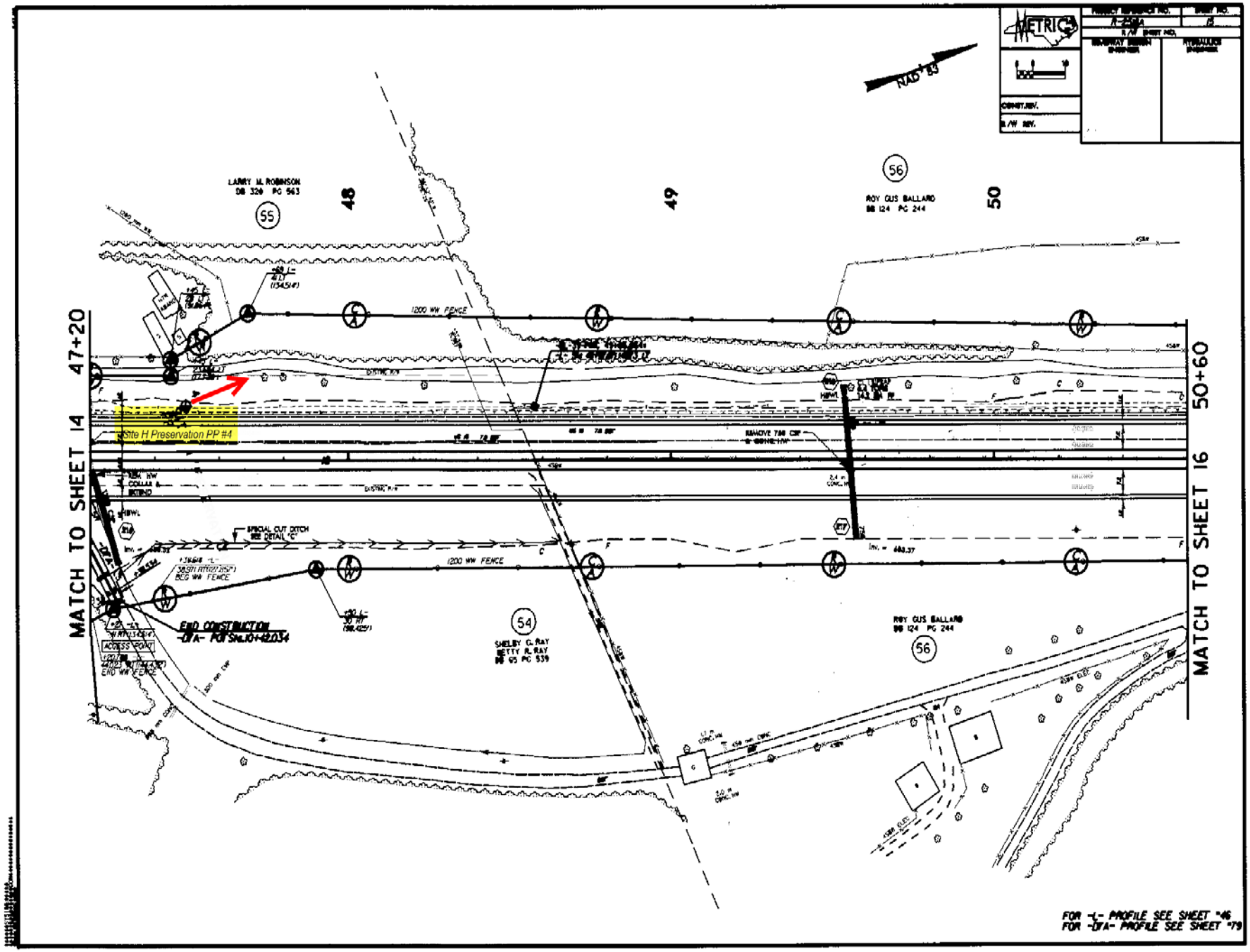
APPENDIX B

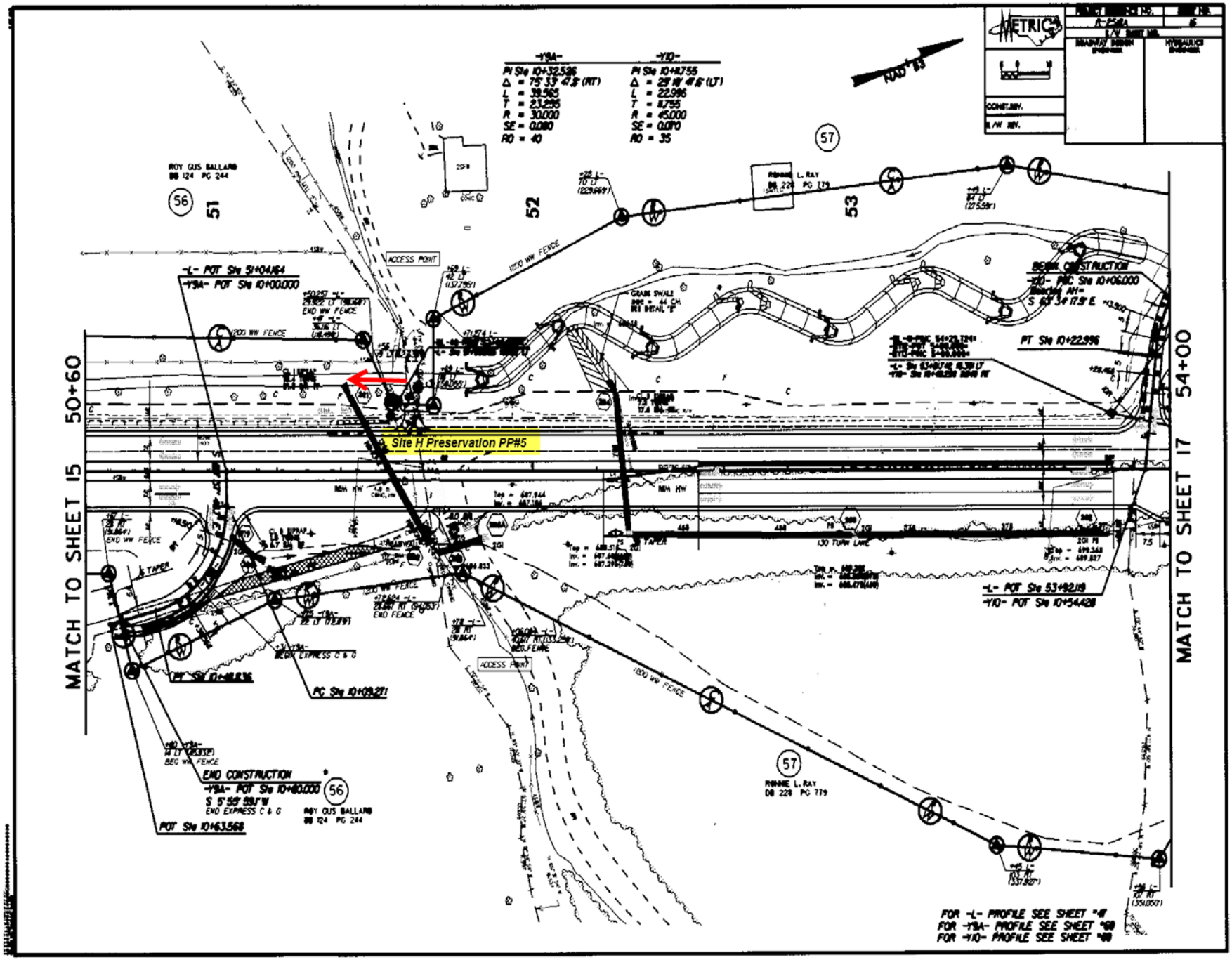
PHOTO POINT LOCATIONS

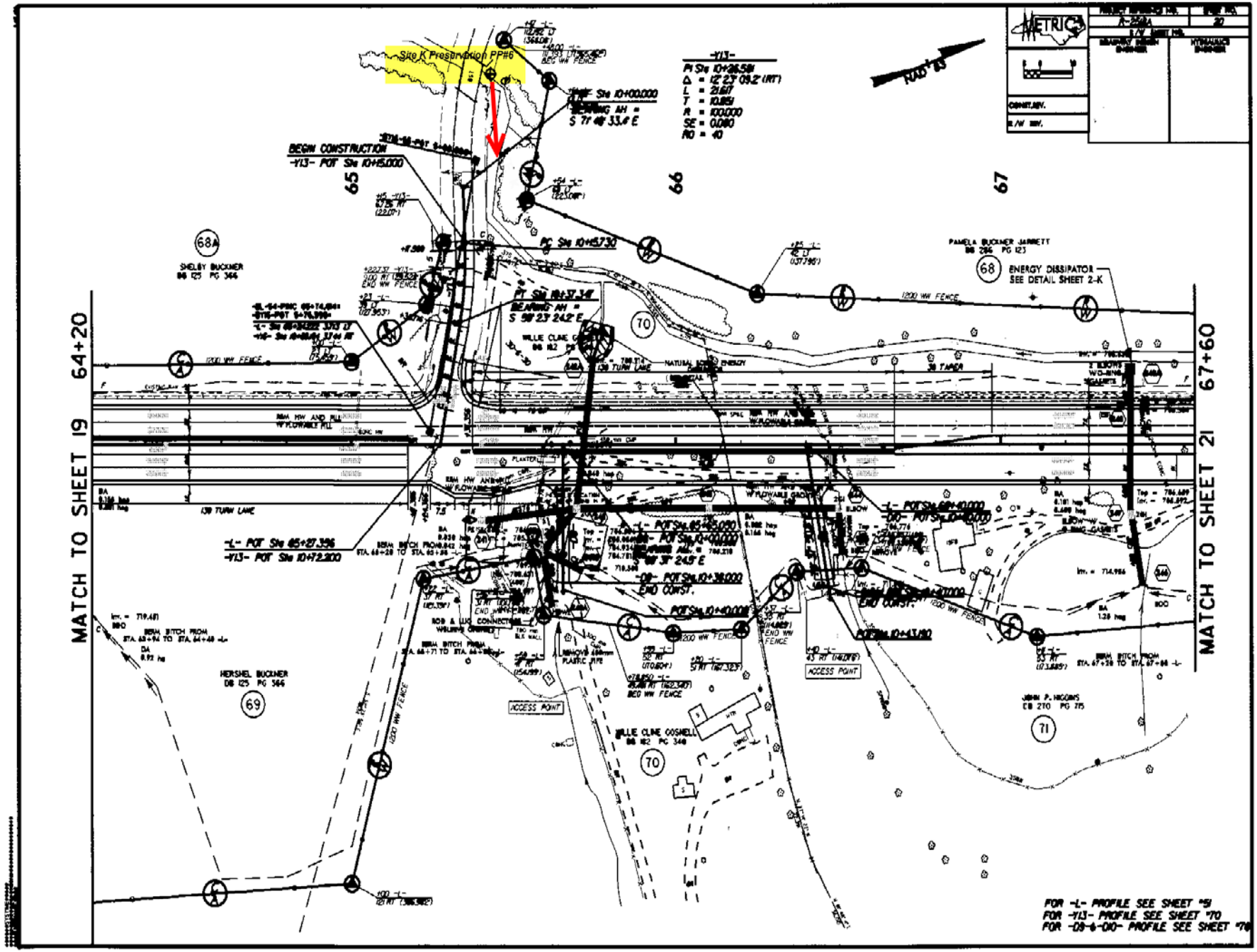

-L-
Pte Sta 36+93.043
θb = 2°23'14.4"
Lc = 75.000
LT = 90.005
ST = 25.004
-Y6-
PI Sta 10+88.869
Δ = 12°04'14.8" (RT)
L = 48.455
T = 24.318
R = 230.000
SE = 0.080
RO = 40
-DEB-
PI Sta 10+54.548
Δ = 3°52'08.7" (LT)
L = 24.362
T = 12.192
R = 360.000
MATCH TO SHEET 10
MATCH TO SHEET 12
33+60
37+00
34
35
36
37
-L- POT Sta 34+24.935
-Y6- POT Sta 10+00.000
-L- POT Sta 35+54.000
-DEB- POT Sta 10+00.000
BEARING AH =
S 55° 31' 54.7" E
PC Sta 10+45.362
PT Sta 10+93.817
POT Sta 10+93.817
END CONSTRUCTION
-Y6- POC Sta 10+80.000
-DEB- POT Sta 10+42.000
END CONST.
POT Sta 10+48.998
PT Sta 10+35.145
PCS Sta 10+16.640
1200 WW FENCE
END WW FENCE
BEG WW FENCE
ACCESS POINT
J. C. YOUNG
DB 175 PG 36
DAVID DEAN
DB 357 PG 336
ROLAND B. METCALF
DB 284 PG 247
IVAN W. HEMBREE
DB 200 PG 568
PHILIP A. DILLINGHAM
DB 212 PG 553
LEVI HUNTER
DB 91 PG 619
SHELBY RAY
PB 213 PG 359
CLASS III RIPRAP (FLOODPLAIN)
SEE MITIGATION PLANS FOR STREAM DESIGN
13B TURN LANE
38 TAPER
EXISTING R/W
NAD '83
METRIC
CONSTR. R/W
R/W REV.
FOR -L- PROFILE SEE SHEET *42
FOR -Y6- PROFILE SEE SHEET *68
FOR -DEB- PROFILE SEE SHEET *75
FOR CULVERT SEE SHEETS C-26 TO C-32

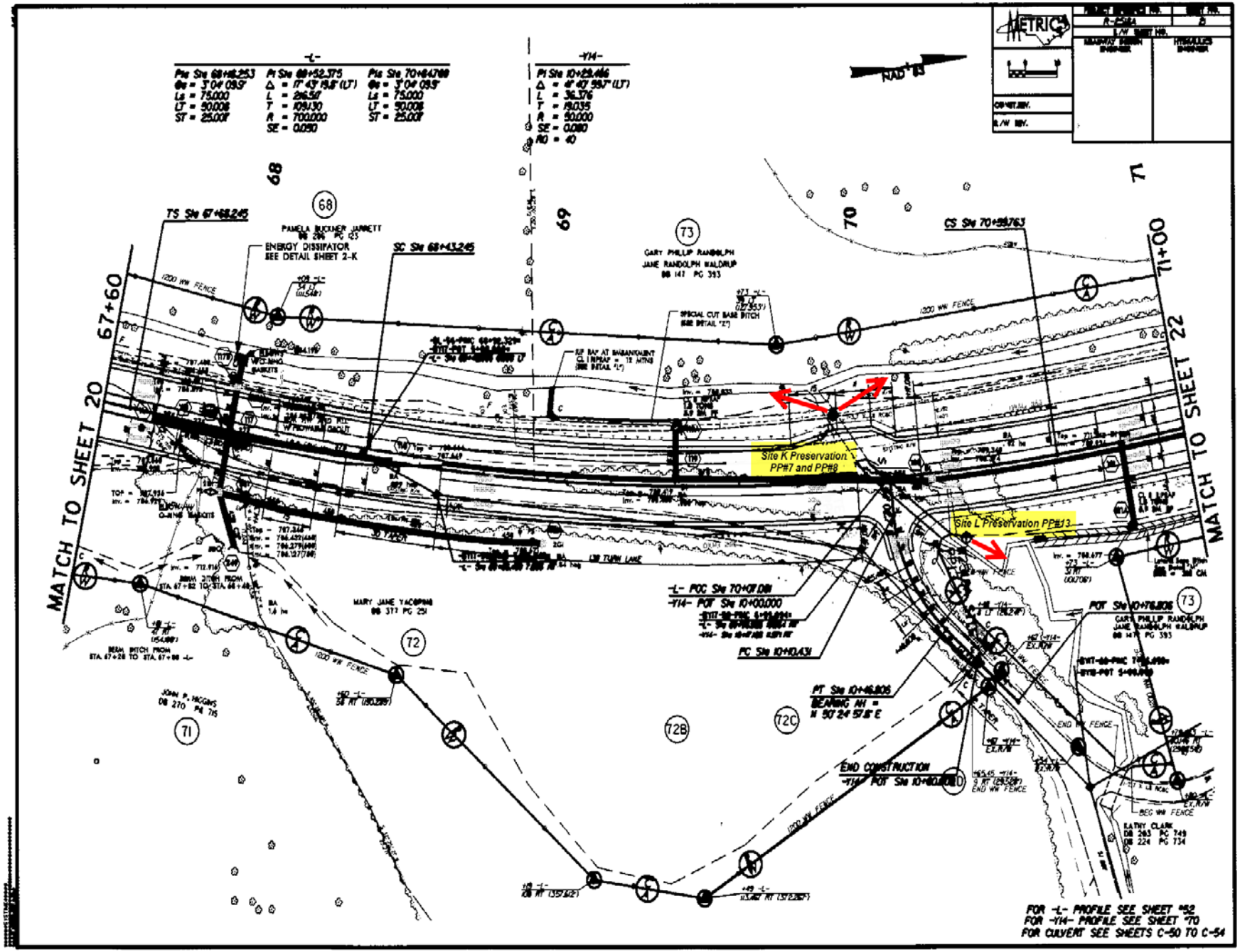

-L-
PI Sta 39+12.86
Δ = 24°29'23.4" (RT)
L = 383.638
T = 194.777
R = 900.000
SE = 0.050
-DIC-
PI Sta 10+28.32
Δ = 76°14'18.5" (LT)
L = 14.405
T = 8.37
R = 10.800
METRIC
CONST.DIV.
R/W DIV.
HIGHWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
ACCESS POINT
REMOVE BUILDING
BRIAN BARLOW DB 239 PG 456
J. C. YOUNG DB 172 PG 82
BEGIN CONSTRUCTION
-Y7- POT Sta 10+00.000
SEE MITIGATION PLANS FOR STREAM DESIGN
-L- POC Sta 37+80.185
-DIC- POT Sta 10+00.000
BEARING AH = S 44°54'13.3" E
SC Sta 37+48.038
PERFORMANCE SCOUR HOLE (SEE DETAIL "D")
J. C. YOUNG DB 175 PG 36
RCP & LWB CONNECTORS W/SLEEVE GASKETS & ELBOWS
13' TURN LANE
-Y7- Sta 10+88.338 37.36 RT
-L- POC Sta 38+45.726
-Y7- POT Sta 10+76.074
-Y7- POT Sta 10+35.000
END CONST.
LIMITS OF DISTURBANCE
REMOVE EXIST. RET. WALL & FILL W/ROWABLE MATERIAL
BEG. RET. WALL 38+75 +/-
END RET. WALL 38+75 +/-
REMOVE EXIST. RW AND FILL W/ROWABLE FILL
GERALD F. BROWN DB 216 PG 764-769
REMOVE RW & FILL W/ROWABLE GROUT
IVAN W. HEMBREE DB 200 PG 508
JOHN E. WADE, JR. DB 38 PG 646
JAYE P. HEMBREE DB 233 PG 57
LOU S. HENSLEY DB 127 PG 42
MATCH TO SHEET 11
MATCH TO SHEET 13
37+00
40+40
FOR -L- PROFILE SEE SHEET *43
FOR -Y7- PROFILE SEE SHEET *68
FOR -DIC- PROFILE SEE SHEET *75
FOR CULVERT SEE SHEETS C-33 TO C-38
FOR WALL SEE SHEETS W-1 TO W-2

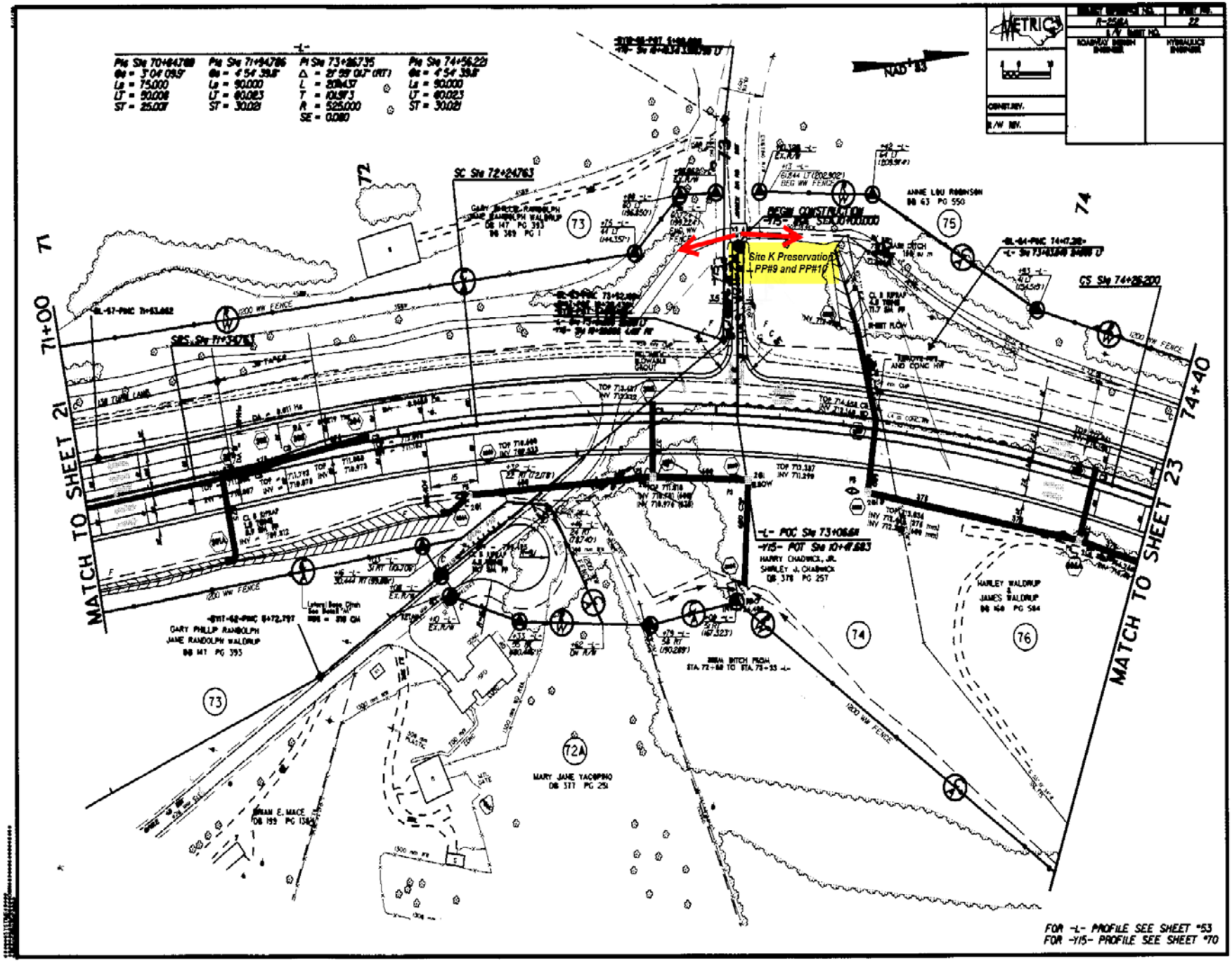

-L-
PI Sta 39+12.86
Δ = 24° 25' 23.4" (RT)
L = 383.638
T = 194.777
R = 900.000
SE = 0.050
PI Sta 43+49.62
Δ = 4° 42' 03" (LT)
L = 407.573
T = 203.895
R = 580.000
SE = 0.080
NAD '83
MATCH TO SHEET 12
MATCH TO SHEET 14
40+40
43+80
PRC Sta 41+01.77
41
42
43
LLOYD RAY
DB 82 PG 97
J. C. YOUNG
DB 112 PG 82
E. J. BALL, ESTATE
NO DEED
GAIL A. BUCKNER
DB 287 PG 784
RICKY CLEMENTS, ET AL
DB 325 PG 549
HAROLD L. WILLIAMS
DB 275 PG 617
RICHARD BEAVER
DB 213 PG 137
KEVIN REARDON
ACCESS POINT
1200 WW FENCE
END WW FENCE
BEG WW FENCE
PIPE PRESERVATION
FOR -L- PROFILE SEE SHEET #4

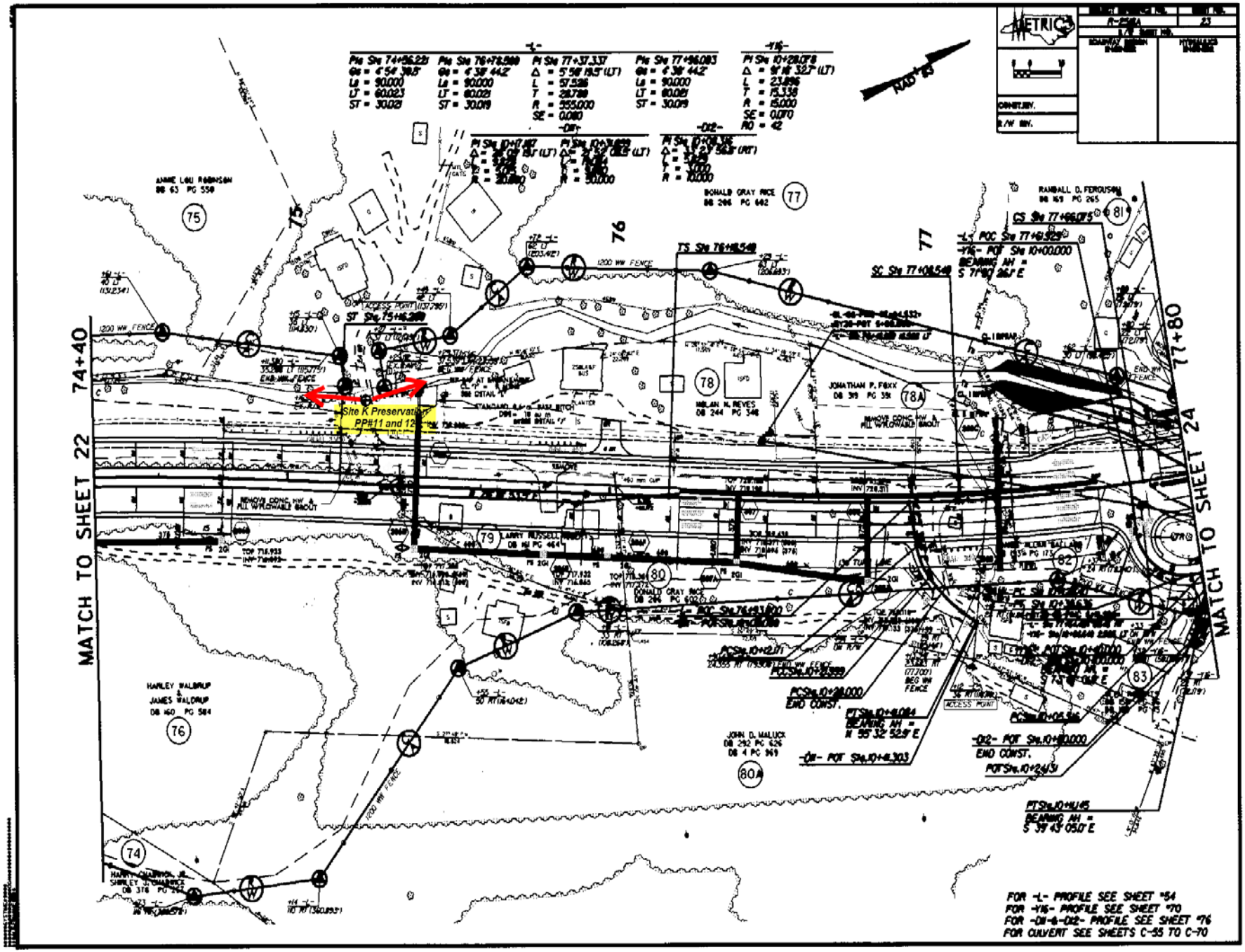

METRIC
NAD 83
LARRY M. ROBINSON
DB 326 PG 563
55
48
49
50
56
ROY GUS BALLARD
DB 124 PG 244
1200 WW FENCE
Site H Preservation PP #4
REMOVE 788 CMP
SPECIAL CUT DITCH
SEE DETAIL "C"
END CONSTRUCTION
-DYA- PI# Sta.10+42.34
END WW FENCE
ACCESS POINT
54
SHELBY G. RAY
BETTY R. RAY
DB 95 PG 539
MATCH TO SHEET 14 47+20
MATCH TO SHEET 16 50+60
FOR -L- PROFILE SEE SHEET "46
FOR -DYA- PROFILE SEE SHEET "79

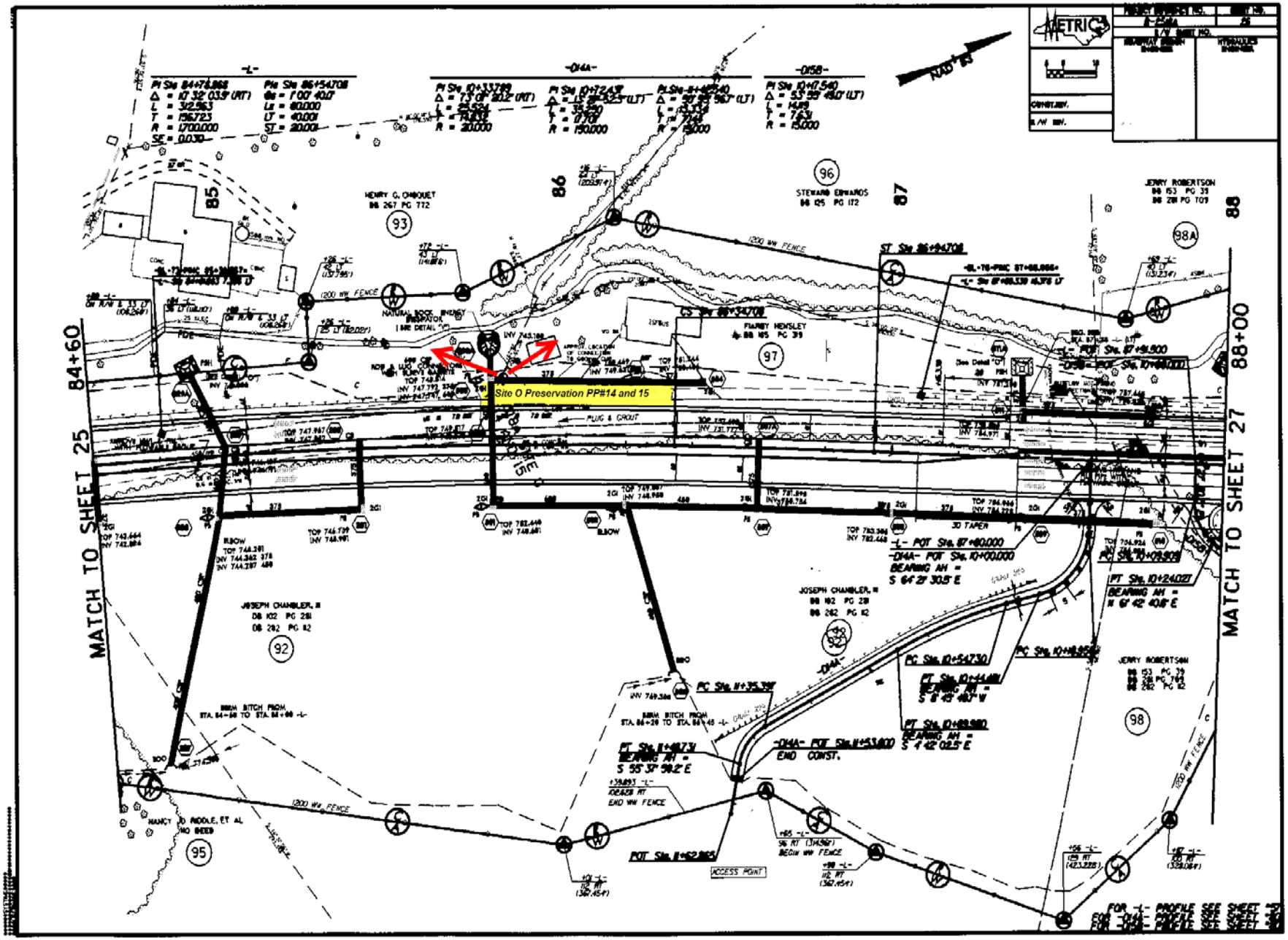

Site H Preservation PP#5
MATCH TO SHEET 15
50+60
MATCH TO SHEET 17
54+00
ACCESS POINT
END CONSTRUCTION
BEGIN CONSTRUCTION
130 TURN LANE
TAPER
FOR -L- PROFILE SEE SHEET "4"
FOR -Y9A- PROFILE SEE SHEET "9"
FOR -Y10- PROFILE SEE SHEET "9"

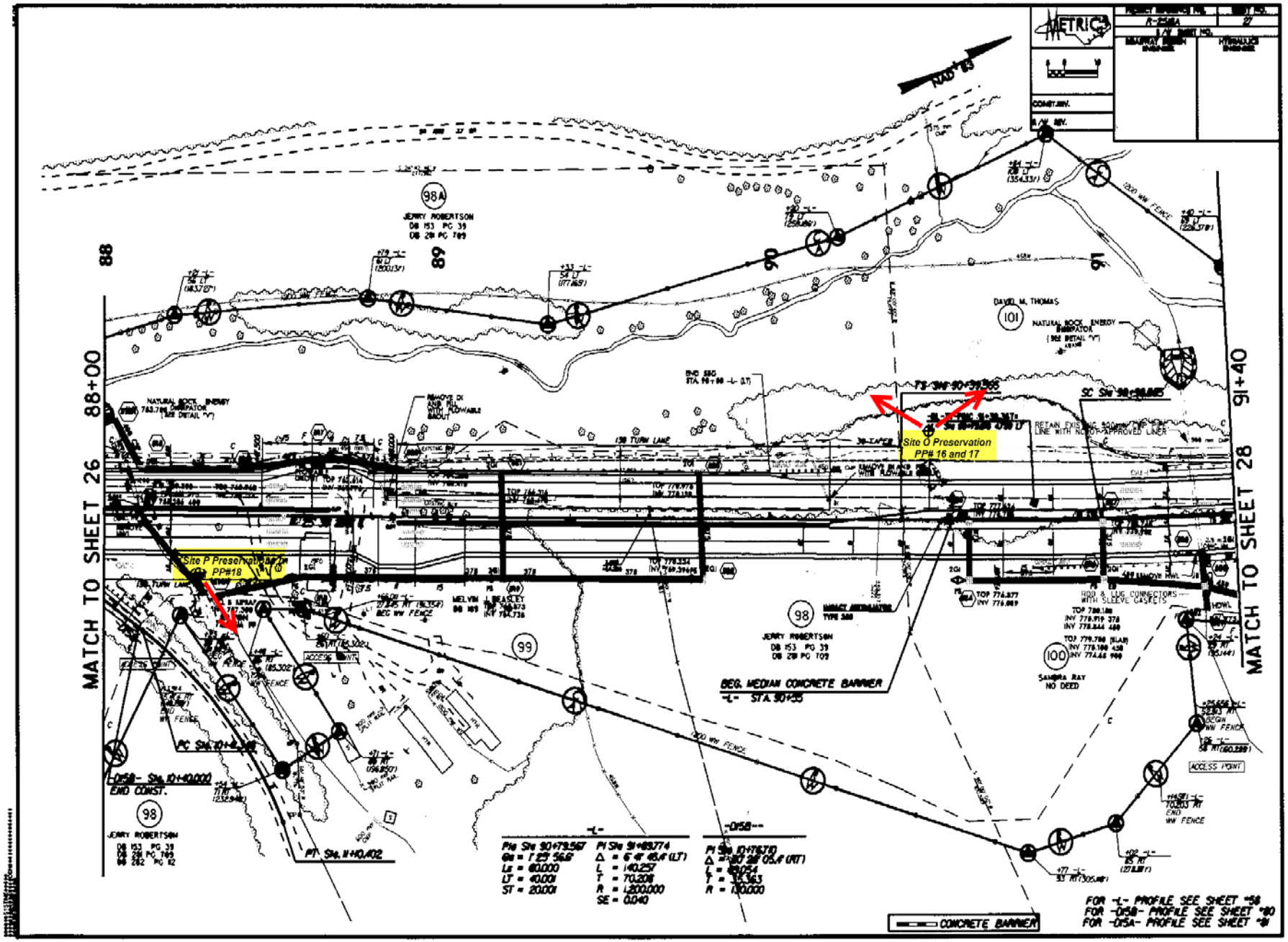

Site K Preservation PP#6
BEGIN CONSTRUCTION
-Y13- POT Sta 10+15.000
-Y13-
PI Sta 10+26.58
Δ = 12° 23' 09.2" (RT)
L = 21.617
T = 10.885
R = 100.000
SE = 0.060
RD = 40
PC Sta 10+15.730
PT Sta 10+37.346
BEARING AH =
S 59° 23' 24.2" E
-L- POT Sta 65+27.396
-Y13- POT Sta 10+72.200
-L- POT Sta 65+65.090
-L- POT Sta 10+00.000
-09- POT Sta 10+38.000
END CONST.
POT Sta 10+40.000
-L- POT Sta 66+40.000
-09- POT Sta 10+70.000
POT Sta 10+43.180
1200 WW FENCE
ACCESS POINT
ENERGY DISSIPATOR
SEE DETAIL SHEET 2-K
PAMELA BUCKNER JARRETT
DB 286 PG 123
SHELBY BUCKNER
DB 125 PG 366
HERSHEL BUCKNER
DB 125 PG 366
WILLIE CLINE GOSNELL
DB 182 PG 348
JOHN P. HIGGINS
DB 270 PG 275
139 TURN LANE
MATCH TO SHEET 19
MATCH TO SHEET 21
64+20
67+60
65
66
67
68A
68
69
70
71
FOR -L- PROFILE SEE SHEET "5"
FOR -Y13- PROFILE SEE SHEET "70"
FOR -09-&-010- PROFILE SEE SHEET "76"

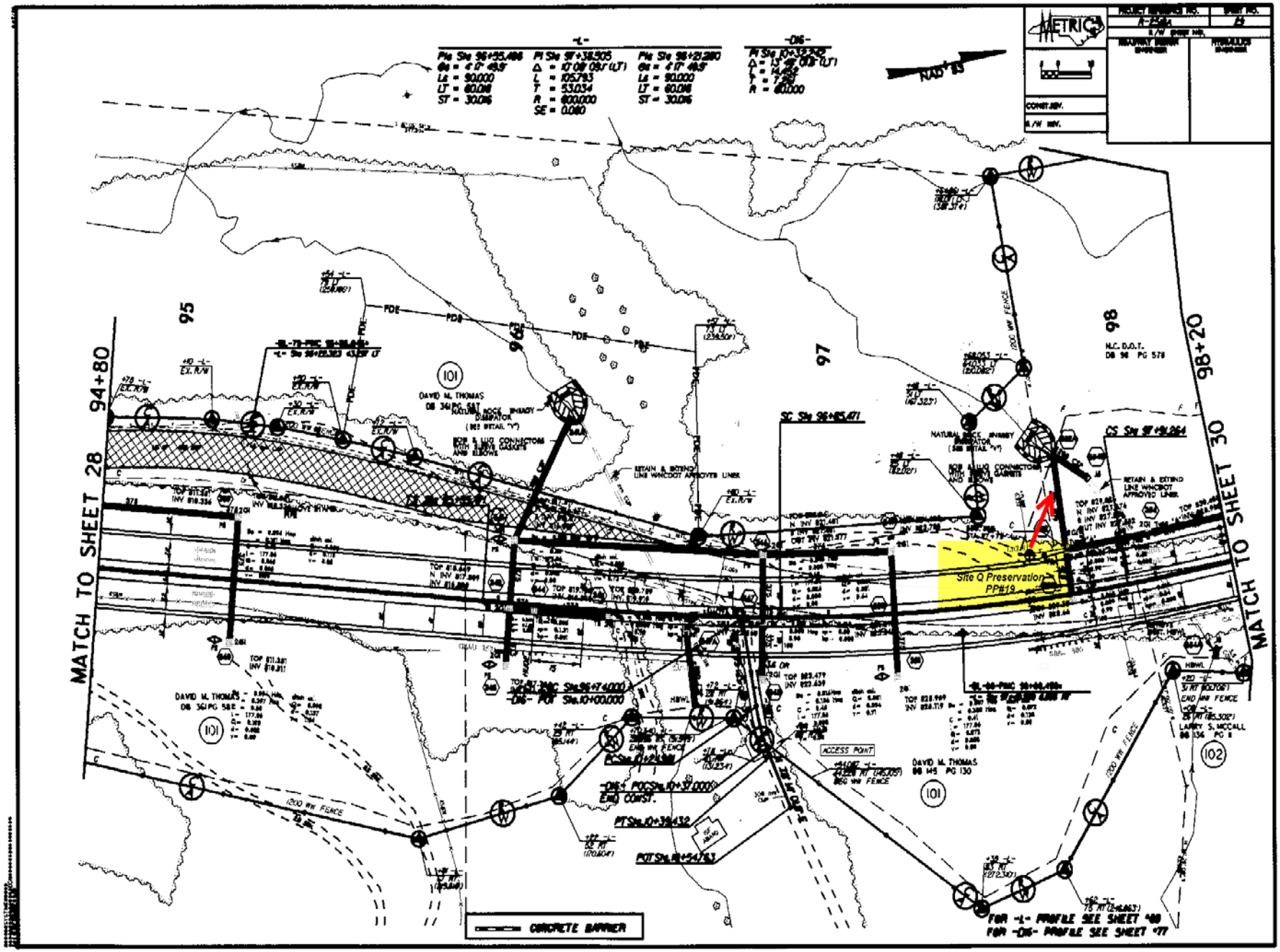

-L-
Pt Sta 68+18.253
θs = 3°04'09.9"
Ls = 75.000
LT = 90.008
ST = 25.007'
Pt Sta 68+52.375
Δ = 17°43'19.8" (LT)
L = 266.50'
T = 109.130
R = 700.000
SE = 0.050
Pt Sta 70+64.789
θs = 3°04'09.9"
Ls = 75.000
LT = 90.008
ST = 25.007'
-Y14-
Pt Sta 10+29.466
Δ = 4°47'59.7" (LT)
L = 36.376
T = 18.035
R = 900.000
SE = 0.080
RO = 40
RAD
METRIC
68
69
70
71
TS Sta 67+68.245
SC Sta 68+43.245
CS Sta 70+99.763
67+60
71+00
MATCH TO SHEET 20
MATCH TO SHEET 22
PAMELA BUCKNER JARRETT
DB 284 PG 125
ENERGY DISSIPATOR
SEE DETAIL SHEET 2-K
GARY PHILLIP RANDOLPH
JANE RANDOLPH WALDRUP
DB 147 PG 393
1200 WN FENCE
SPECIAL CUT BARB DITCH
SEE DETAIL "Z1"
RIP RAP AT BARANCHMENT
CL I REPAIR = 12 MTNS
SEE DETAIL "J1"
Site K Preservation
PP#7 and PP#8
Site L Preservation PP#13
-L- POC Sta 70+67.08
-Y14- POT Sta 10+00.000
PC Sta 10+10.43
POT Sta 10+76.806
PT Sta 10+46.806
BEARING AH =
N 90°24'57.8" E
MARY JANE YACOPINO
DB 377 PG 251
JOHN P. HIGGINS
DB 270 PG 715
END CONSTRUCTION
-Y14- POT Sta 10+60.00
KATHY CLARK
DB 263 PG 749
DB 224 PG 734
FOR -L- PROFILE SEE SHEET #52
FOR -Y14- PROFILE SEE SHEET #70
FOR CULVERT SEE SHEETS C-50 TO C-54

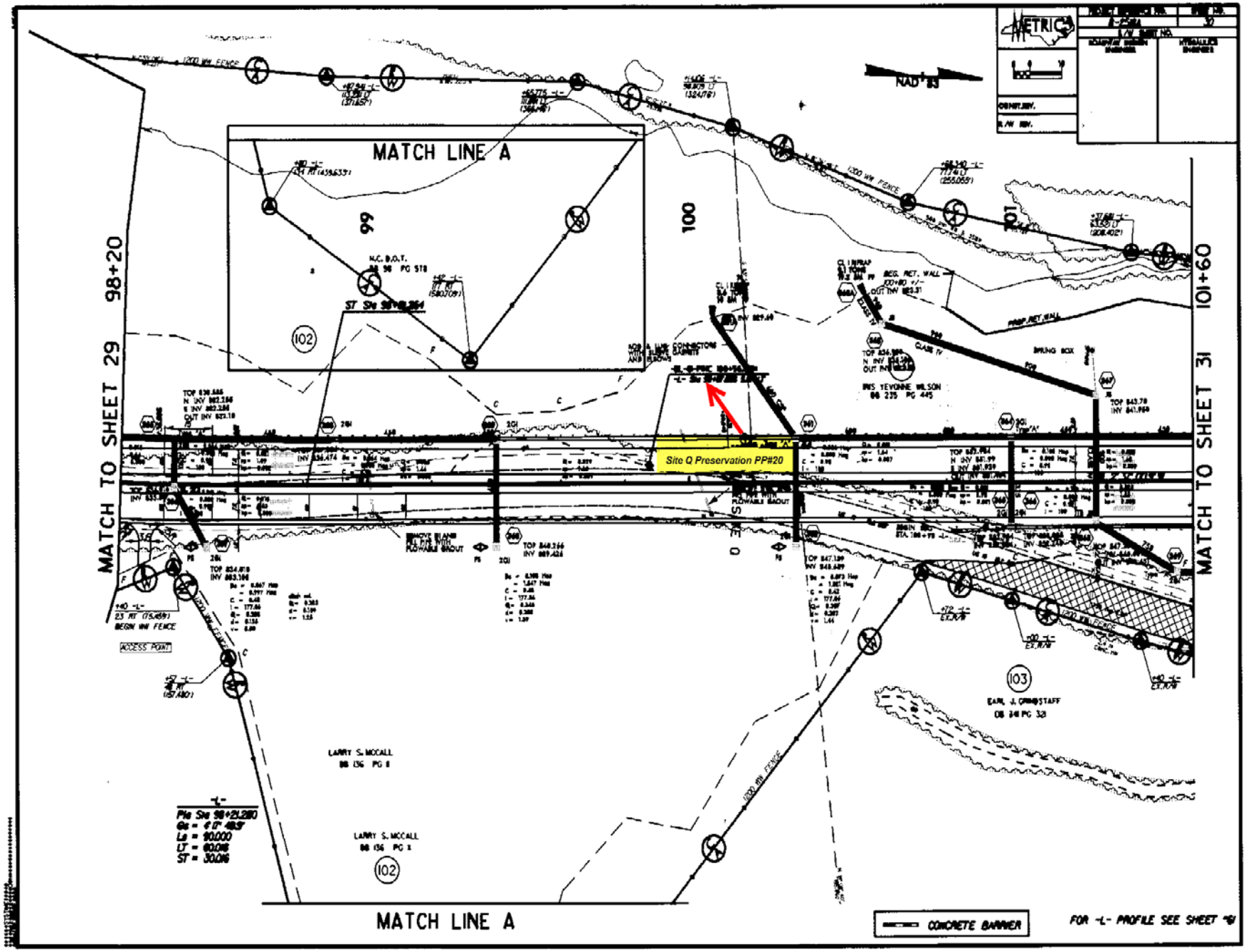

Site K Preservation
PP#9 and PP#10
MATCH TO SHEET 21
MATCH TO SHEET 23
71+00
74+40
SC Sta 72+24.763
CS Sta 74+26.200
-L- POC Sta 73+06.64
-Y15- POT Sta 10+47.683
NAD '83
FOR -L- PROFILE SEE SHEET #53
FOR -Y15- PROFILE SEE SHEET #70

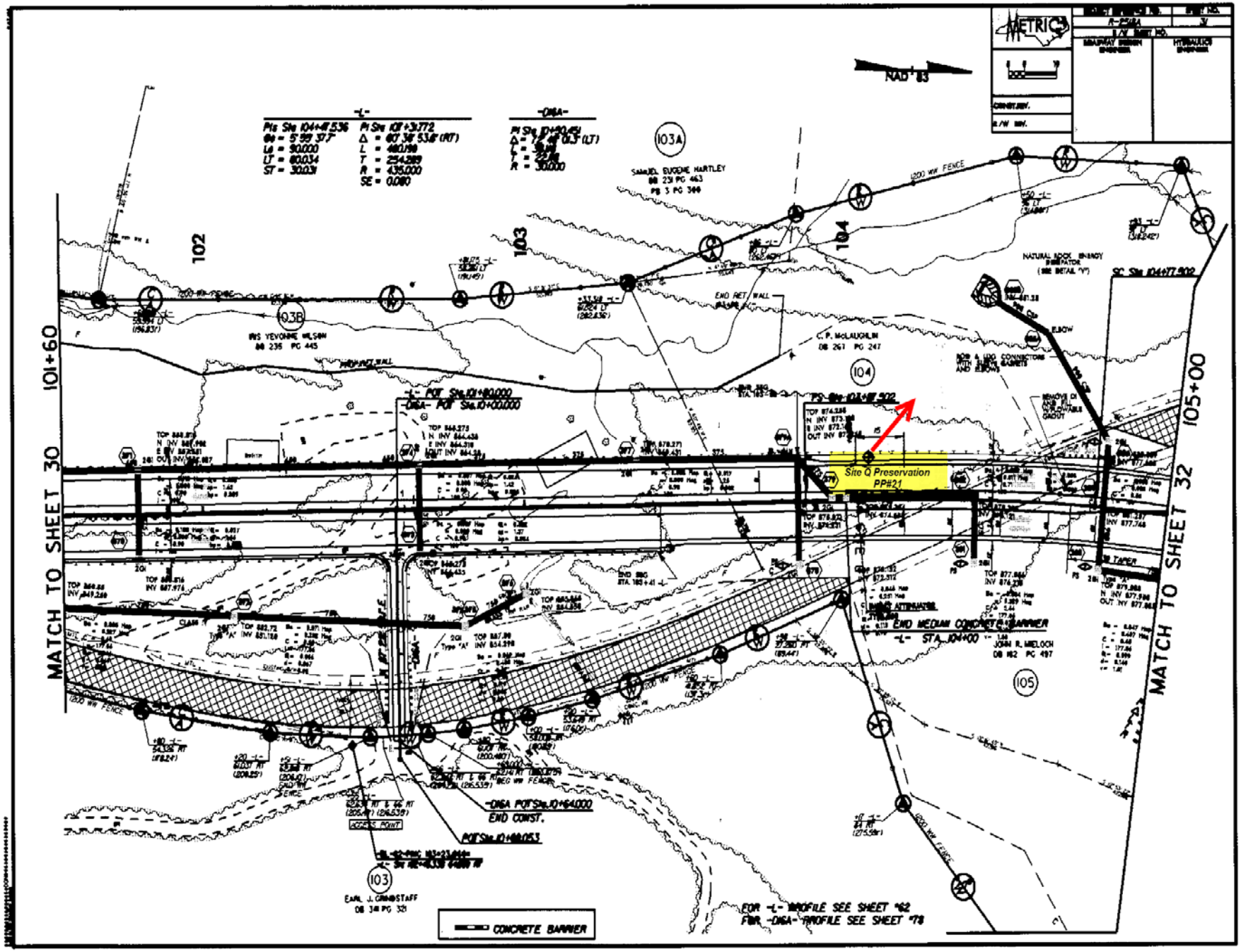

METRIC
R-2566A
CONSTRUCTION
R/W
-L-
Pt Sta 74+96.22
Pt Sta 76+78.59
Pt Sta 77+37.33
Pt Sta 77+96.08
-Y6-
Pt Sta 10+28.08
-DR-
-D12-
NAD 83
MATCH TO SHEET 22
74+40
75
76
77
77+80
MATCH TO SHEET 24
ANNIE LOU ROBINSON
DB 63 PG 559
DONALD GRAY RICE
DB 296 PG 602
RANDALL D. FERGUSON
DB 169 PG 265
JONATHAN P. FOXX
DB 39 PG 39
MILAN N. REYES
DB 244 PG 348
LARRY RUSSELL
DB 141 PG 464
HARLEY WALDRUP
&
JAMES WALDRUP
DB 160 PG 584
JOHN D. MALUCK
DB 252 PG 626
DB 4 PG 369
HARRY CHARROCK JR.
&
SHIRLEY CHARROCK
DB 376 PG 267
Site K Preservation
PP#11 and 12
CS Sta 77+66.07
POC Sta 77+69.29
POT Sta 10+00.000
BEARING AH =
S 71° 10' 26.5" E
SC Sta 77+08.54
TS Sta 76+18.54
ST Sta 75+16.20
PCS Sta 10+28.000
END CONST.
PT Sta 10+8.084
BEARING AH =
N 55° 32' 52.9" E
-Dt- POT Sta 10+8.303
-D12- POT Sta 10+20.000
END CONST.
POT Sta 10+24.53
PT Sta 10+41.45
BEARING AH =
S 39° 45' 05.0" E
FOR -L- PROFILE SEE SHEET *54
FOR -Y6- PROFILE SEE SHEET *70
FOR -DR-&-D12- PROFILE SEE SHEET *76
FOR CULVERT SEE SHEETS C-55 TO C-70

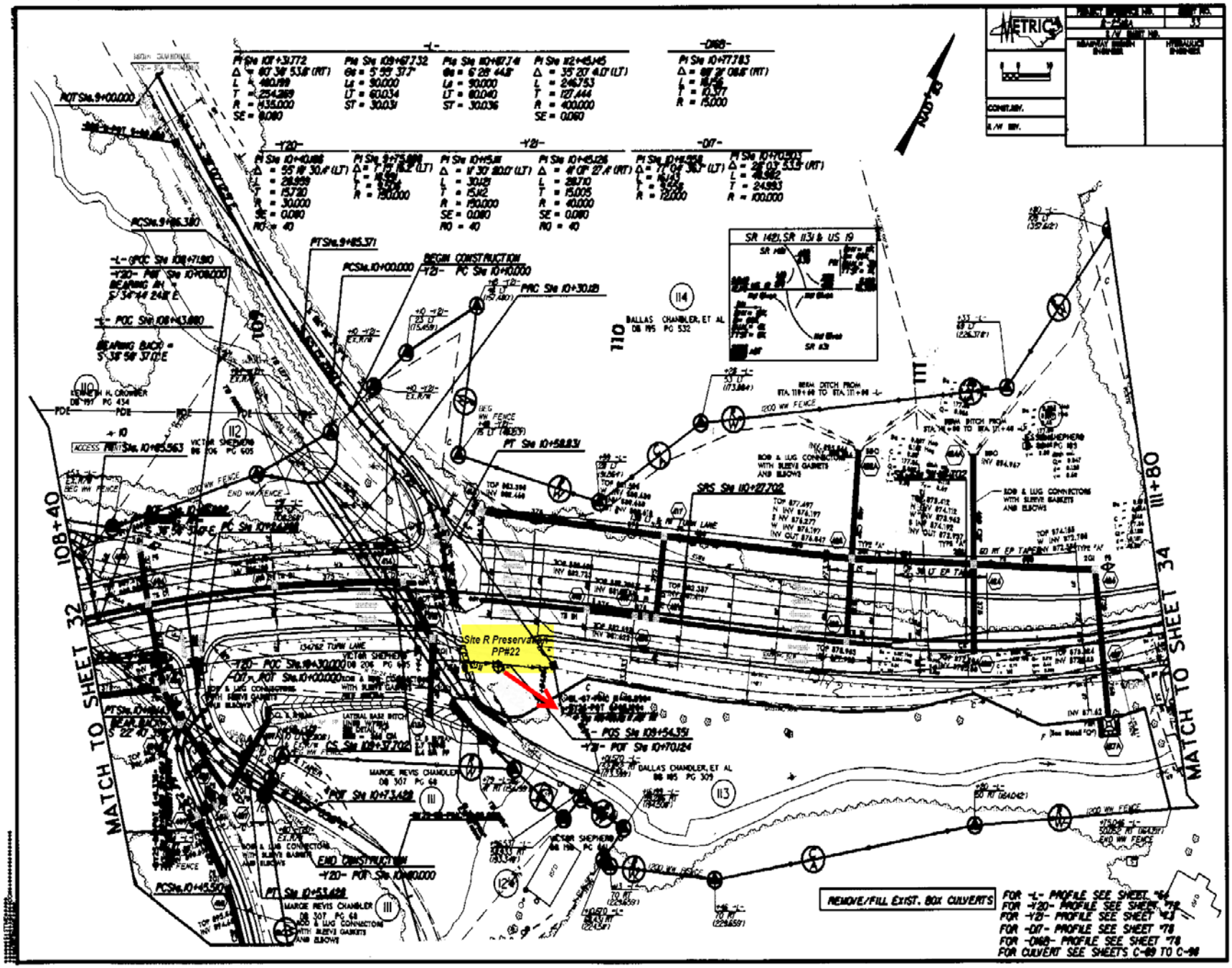

Site O Preservation PP#14 and 15
MATCH TO SHEET 25
MATCH TO SHEET 27
84+60
88+00
-L-
-D4A-
-D5B-
NAD '83
HENRY G. CHAQUET
DB 267 PG 772
STEWARD EDWARDS
DB 125 PG 172
JERRY ROBERTSON
DB 153 PG 35
DB 281 PG 709
FANNY HENSLEY
DB 185 PG 39
JOSEPH CHAMBLER, II
DB 102 PG 281
DB 282 PG 82
NANCY JO RIDDLE, ET AL
NO DEED
200 WV FENCE
120 WV FENCE
ACCESS POINT
FOR -L- PROFILE SEE SHEET
FOR -D4A- PROFILE SEE SHEET
FOR -D5B- PROFILE SEE SHEET

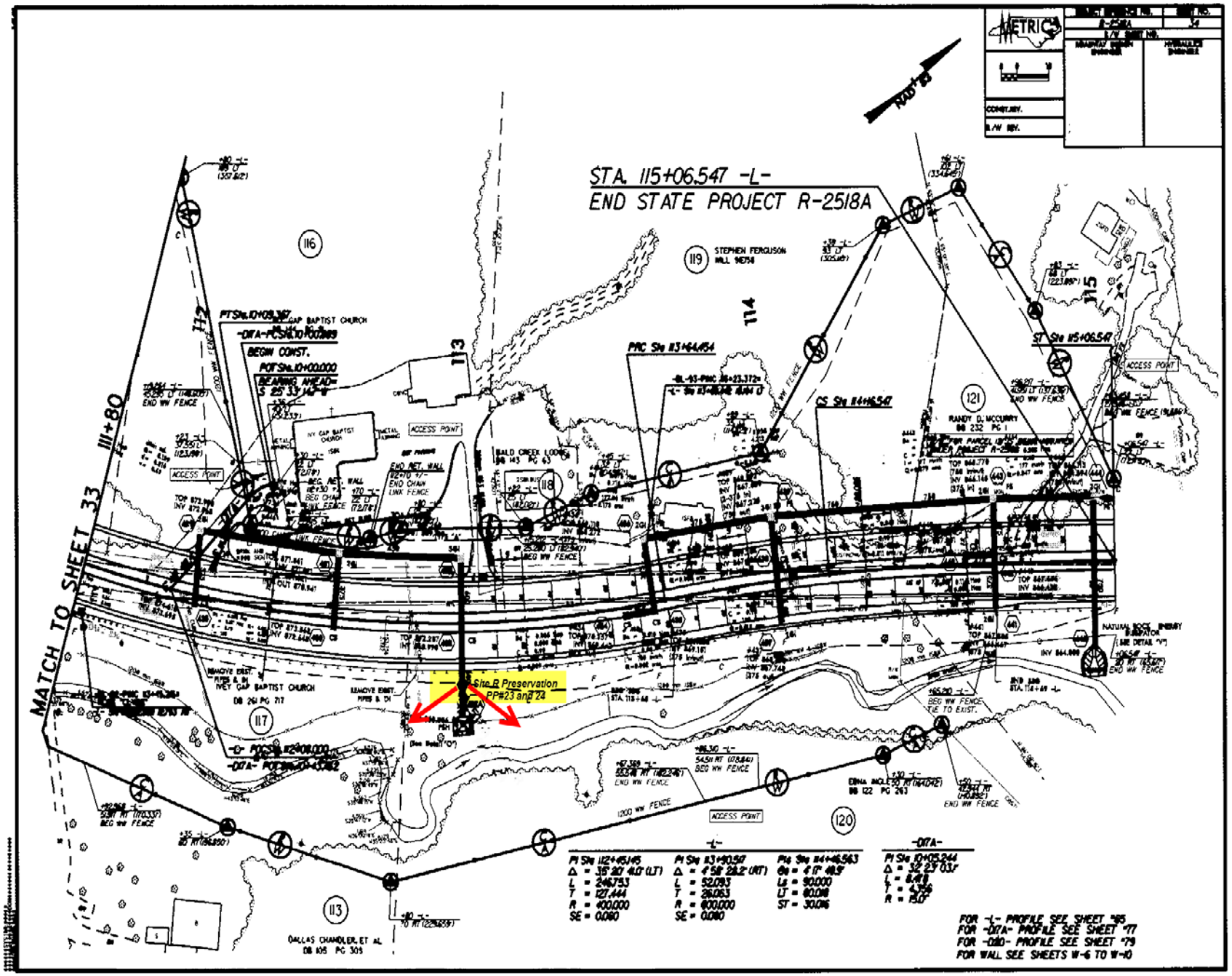

METRIC
MATCH TO SHEET 26
88+00
MATCH TO SHEET 28
91+40
Site P Preservation
PP#18
Site O Preservation
PP# 16 and 17
BEG. MEDIAN CONCRETE BARRIER
-L- STA. 90+35
JERRY ROBERTSON
DB 153 PG 39
DB 219 PG 709
DAVID M. THOMAS
SANDRA RAY
NO DEED
-L-
PI Sta 90+73.567
Δ = 1°25'56.6"
Le = 60.000
LT = 40.001
ST = 20.001
PI Sta 91+69.774
Δ = 6°41'46.4" (LT)
L = 140.257
T = 70.208
R = 1,200.000
SE = 0.040
-DSB-
PI Sta 10+76.70
Δ = 80°28'05.4" (RT)
L = 42.054
T = 26.363
R = 30.000
CONCRETE BARRIER
FOR -L- PROFILE SEE SHEET "5"
FOR -DSB- PROFILE SEE SHEET "10"
FOR -DSA- PROFILE SEE SHEET "8"


MATCH TO SHEET 28
94+80
MATCH TO SHEET 30
98+20
95
96
97
98
-L-
-DS-
NAD 83
METRIC
CONST.REV.
R/W REV.
DAVID M. THOMAS
DB 341 PG 581
DAVID M. THOMAS
DB 341 PG 582
DAVID M. THOMAS
DB 145 PG 130
N.C. D.O.T.
DB 98 PG 578
LARRY S. MCCALL
DB 136 PG 8
SC Sta 96+85.471
CS Sta 97+16.264
Site Q Preservation
PP#19
ACCESS POINT
200' WW FENCE
RETAIN & EXTEND LINE WHICHEVER APPROVED LINER
NATURAL ROCK INVERT DISSIPATOR (SEE DETAIL "Y")
RCP & MES CONNECTIONS WITH SAFETY GASKETS AND REBARS
CONCRETE BARRIER
FOR -L- PROFILE SEE SHEET 48
FOR -DS- PROFILE SEE SHEET 77


MATCH LINE A
MATCH TO SHEET 29
98+20
MATCH TO SHEET 31
101+60
Site Q Preservation PP#20
NAD 83
METRIC
N.C. D.O.T.
BK 98 PG 578
BEG. RET. WALL
END RET. WALL
PROP. RET. WALL
CLASS IV
BRUNS BOX
IRIS YEVONNE WILSON
BK 235 PG 445
REMOVE BLANK PIPE WITH FLOWABLE GROUT
LARRY S. MCCALL
BK 136 PG 8
LARRY S. MCCALL
BK 136 PG 9
EARL J. CRIM & STAFF
DB 24 PG 32
ACCESS POINT
BEGIN WW FENCE
1200 WW FENCE
CONCRETE BARRIER
FOR -L- PROFILE SEE SHEET


MATCH TO SHEET 30
101+60
MATCH TO SHEET 32
105+00
NAD '83
Site Q Preservation
PP#21
CONCRETE BARRIER
102
103
104
105
103A
103B
SAMUEL EUGENE HARTLEY
DB 29 PG 463
PB 3 PG 349
IRIS YEVONNE WILSON
DB 235 PG 445
C. P. McLAUGHLIN
DB 261 PG 247
JOHN R. MELOCH
DB 162 PG 497
EARL J. GRUBSTAFF
DB 348 PG 321
200' WW FENCE
END RET. WALL
END MEDIUM CONCRETE BARRIER
-L- STA. 104+00
-DIGA- POT Sta.100+64.000
END CONST.
POT Sta.100+68.053
FOR -L- PROFILE SEE SHEET #62
FOR -DIGA- PROFILE SEE SHEET #78


Site R Preservation
PP#22
MATCH TO SHEET 32
MATCH TO SHEET 34
108+40
111+80
SR 142), SR 113) & US 19
REMOVE/FILL EXIST. BOX CULVERTS
FOR -L- PROFILE SEE SHEET "6"
FOR -Y20- PROFILE SEE SHEET "7"
FOR -Y2- PROFILE SEE SHEET "7"
FOR -D7- PROFILE SEE SHEET "7"
FOR -D68- PROFILE SEE SHEET "7"
FOR CULVERT SEE SHEETS C-89 TO C-98


STA. 115+06.547 -L-
END STATE PROJECT R-2518A
MATCH TO SHEET 33
111+80
PT Sta. 10+08.367
-DIA- PCS Sta. 10+08.367
BEGIN CONST.
POT Sta. 10+00.000
BEARING AHEAD
S 25° 33' 14" W
PRC Sta 83+64.454
CS Sta 84+46.547
ST Sta 115+06.547
Site R Preservation
PP#23 and 24
ACCESS POINT
IVY GAP BAPTIST CHURCH
DB 261 PG 717
STEPHEN FERGUSON
WILL 96758
RANDY D. MCCURRY
DB 232 PG 1
BALD CREEK LODGE
DB 145 PG 63
DALLAS CHANDLER, ET AL
DB 605 PG 305
EDNA INGLE
DB 122 PG 263
NATURAL ROCK ENERGY DISSIPATOR
(SEE DETAIL "Y")
1200 WW FENCE
BEG WW FENCE
END WW FENCE
-L-
PI Sta 112+45.145
Δ = 35° 20' 40" (LT)
D = 2°46'53"
L = 246.753
T = 127.444
R = 400.000
SE = 0.080
PI Sta 83+90.567
Δ = 4° 58' 28.2" (RT)
D = 2°46'53"
L = 52.093
T = 26.053
R = 400.000
SE = 0.080
PI Sta 84+46.563
Θs = 4° 17' 48.9"
Ls = 90.000
LT = 90.018
ST = 30.016
-DIA-
PI Sta 10+03.244
Δ = 32° 29' 03.1"
D = 8.48°
L = 429.6
T = 220.6
R = 150.0'
FOR -L- PROFILE SEE SHEET "85"
FOR -DIA- PROFILE SEE SHEET "77"
FOR -DRO- PROFILE SEE SHEET "79"
FOR WALL SEE SHEETS W-6 TO W-10