R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

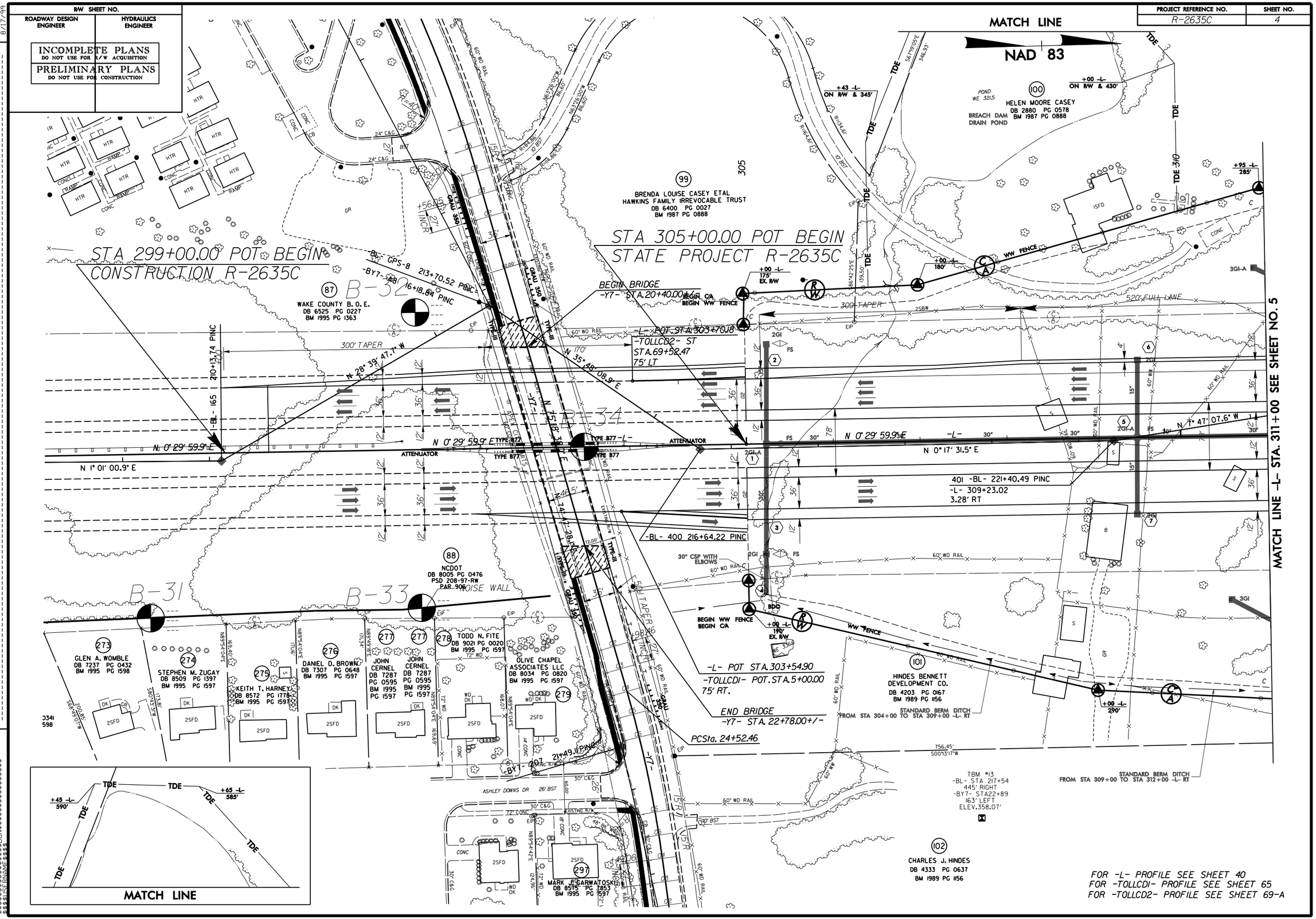
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	4

REVISIONS

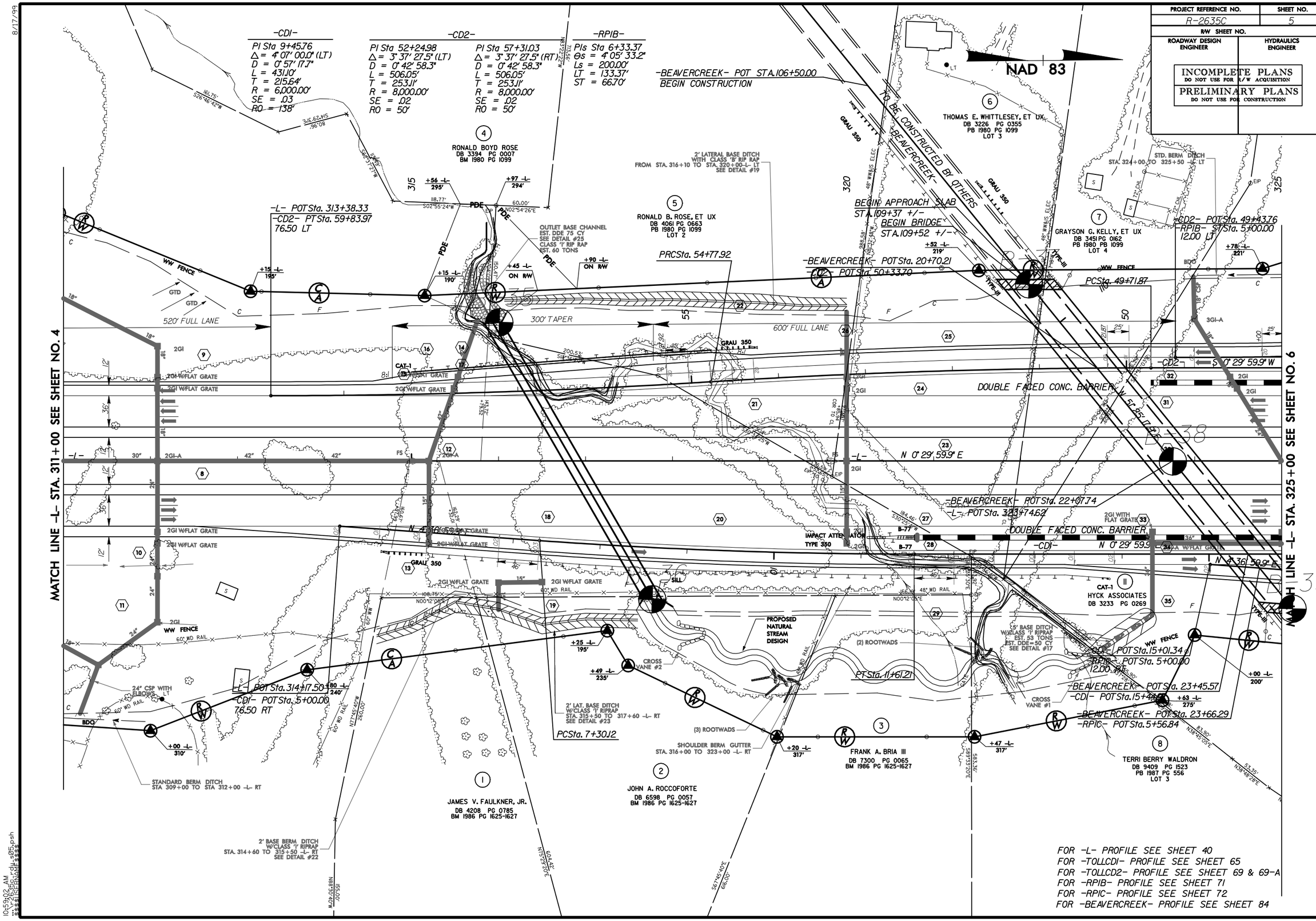
8/17/99



PROJECT REFERENCE NO.	SHEET NO.
R-2635C	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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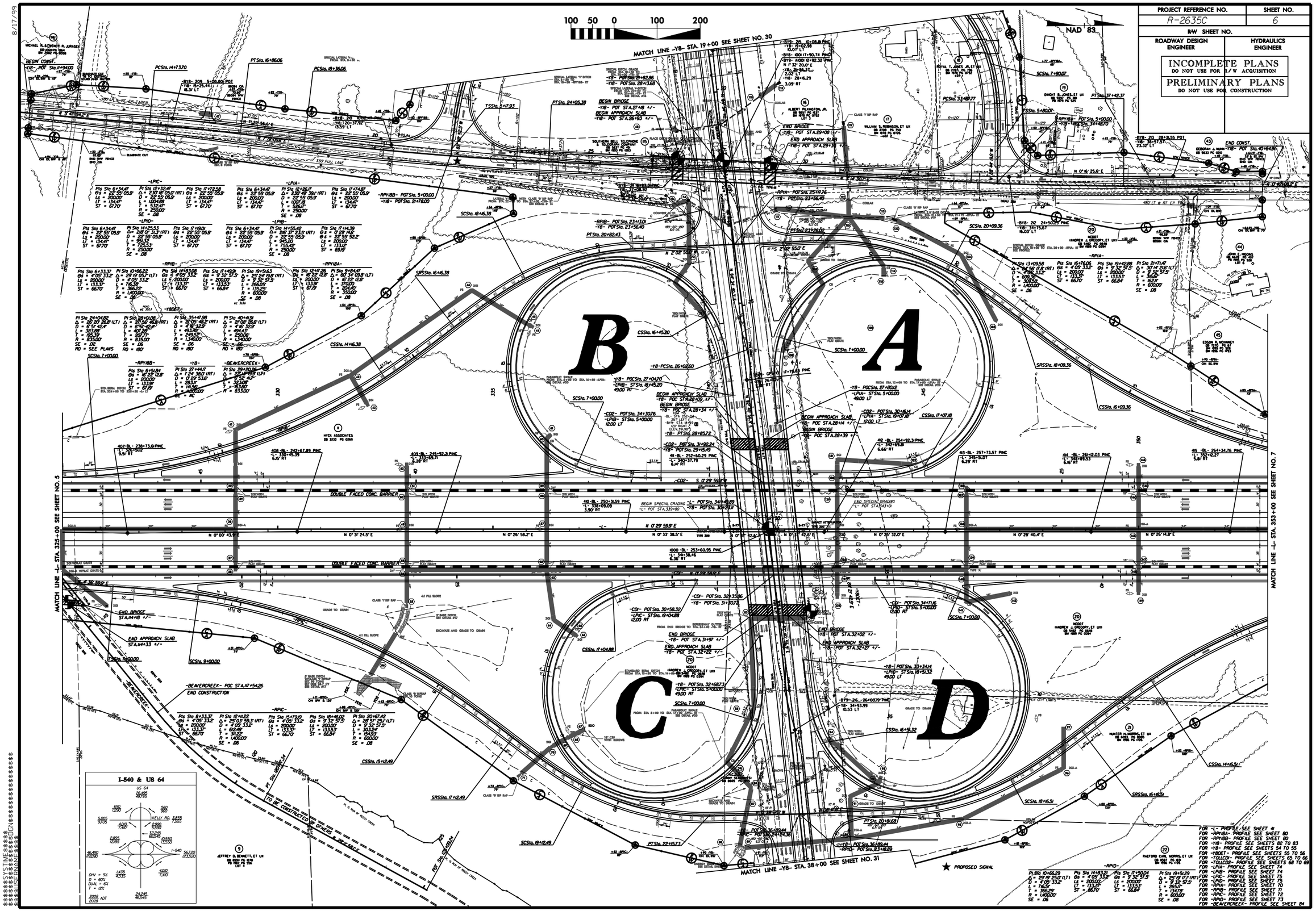
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

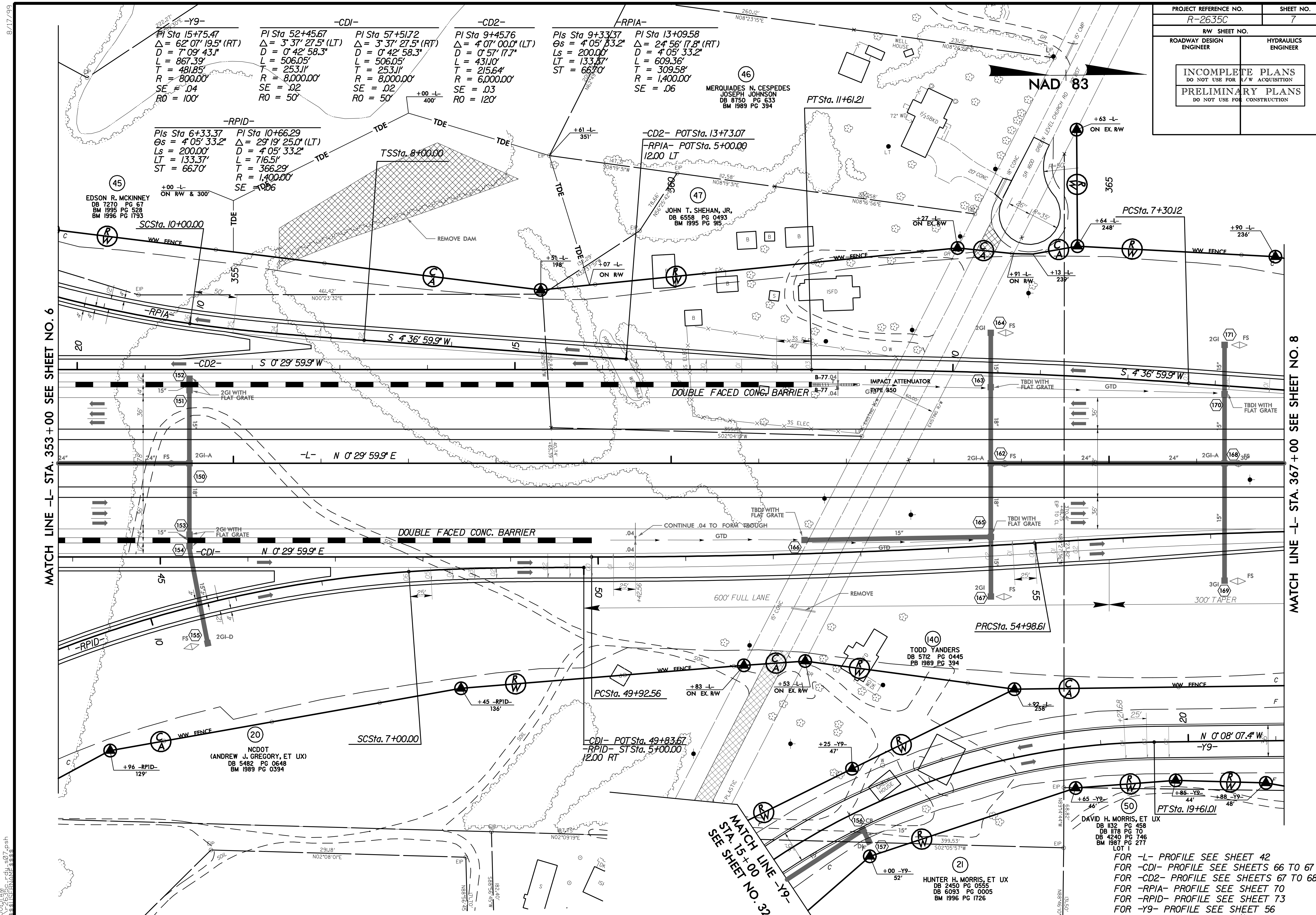
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



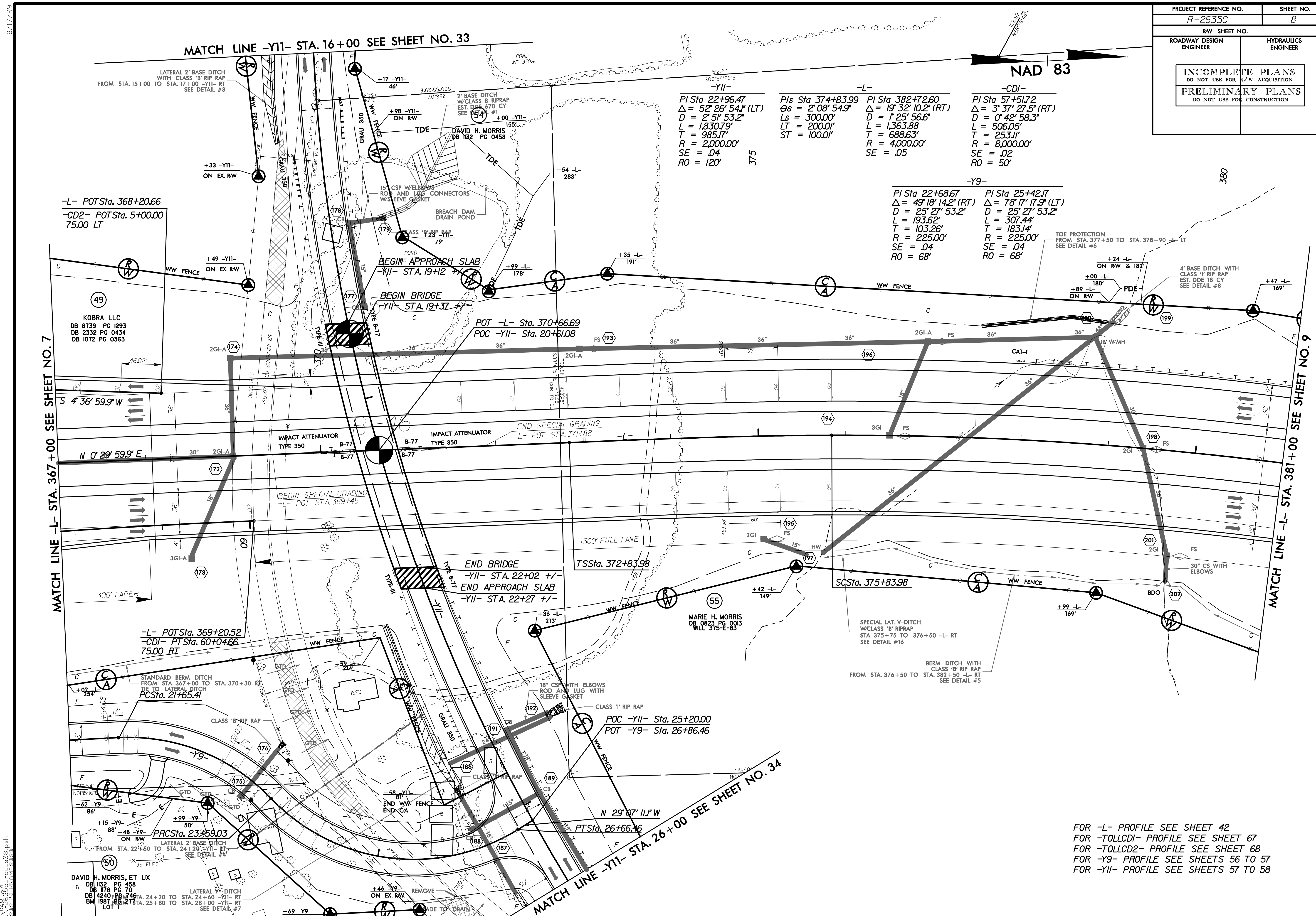
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



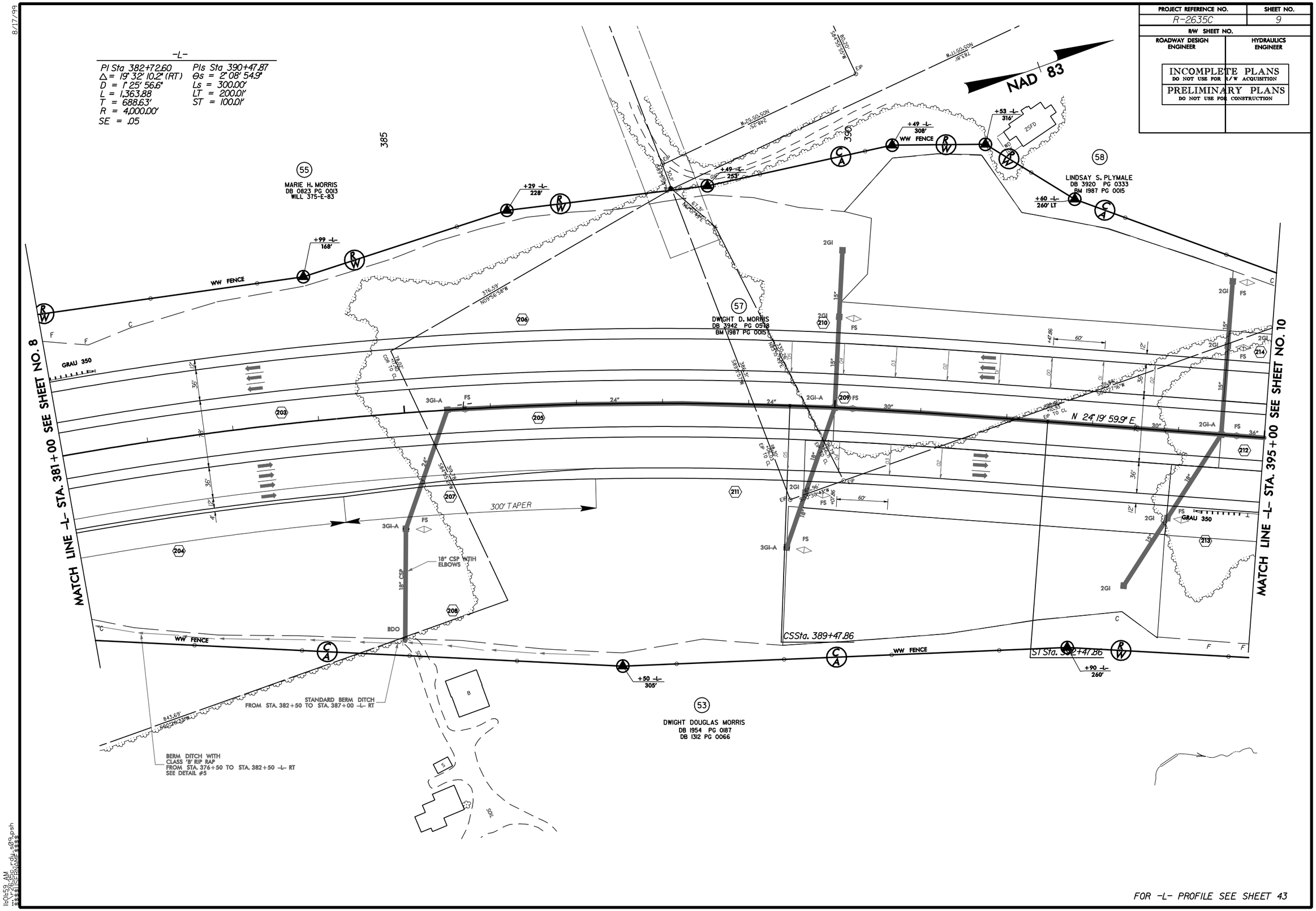
FOR -L- PROFILE SEE SHEET 42
FOR -CD1- PROFILE SEE SHEETS 66 TO 67
FOR -CD2- PROFILE SEE SHEETS 67 TO 68
FOR -RP1A- PROFILE SEE SHEET 70
FOR -RP1D- PROFILE SEE SHEET 73
FOR -Y9- PROFILE SEE SHEET 56


PROJECT REFERENCE NO. R-2635C
SHEET NO. 8
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
NAD 83
MATCH LINE -Y11- STA. 16+00 SEE SHEET NO. 33
MATCH LINE -L- STA. 367+00 SEE SHEET NO. 7
MATCH LINE -L- STA. 381+00 SEE SHEET NO. 9
MATCH LINE -Y11- STA. 26+00 SEE SHEET NO. 34
-Y11-
PI Sta 22+96.47
Δ = 52° 26' 54.1" (LT)
D = 2° 51' 53.2"
L = 1,830.79'
T = 985.17'
R = 2,000.00'
SE = .04
RO = 120'
-L-
PIs Sta 374+83.99
θs = 2° 08' 54.9"
Ls = 300.00'
LT = 200.01'
ST = 100.01'
PI Sta 382+72.60
Δ = 19° 32' 10.2" (RT)
D = 1° 25' 56.6"
L = 1,363.88
T = 688.63'
R = 4,000.00'
SE = .05
-CD1-
PI Sta 57+51.72
Δ = 3° 37' 27.5" (RT)
D = 0° 42' 58.3"
L = 506.05'
T = 253.11'
R = 8,000.00'
SE = .02
RO = 50'
-Y9-
PI Sta 22+68.67
Δ = 49° 18' 14.2" (RT)
D = 25° 27' 53.2"
L = 193.62'
T = 103.26'
R = 225.00'
SE = .04
RO = 68'
PI Sta 25+42.17
Δ = 78° 17' 17.9" (LT)
D = 25° 27' 53.2"
L = 307.44'
T = 183.14'
R = 225.00'
SE = .04
RO = 68'
-L- POT Sta. 368+20.66
-CD2- POT Sta. 5+00.00
75.00 LT
KOBRA LLC
DB 8739 PG 1293
DB 2332 PG 0434
DB 1072 PG 0363
DAVID H. MORRIS
DB 1132 PG 0458
BEGIN APPROACH SLAB
-Y11- STA. 19+12 +/-
BEGIN BRIDGE
-Y11- STA. 19+37 +/-
POT -L- Sta. 370+66.69
POC -Y11- Sta. 20+61.08
END BRIDGE
-Y11- STA. 22+02 +/-
END APPROACH SLAB
-Y11- STA. 22+27 +/-
TS Sta. 372+83.98
SC Sta. 375+83.98
MARIE H. MORRIS
DB 0823 PG 0013
WILL 375-E-83
-L- POT Sta. 369+20.52
-CD1- PT Sta. 60+04.66
75.00 RT
PC Sta. 21+65.41
PRC Sta. 23+59.03
POC -Y11- Sta. 25+20.00
POT -Y9- Sta. 26+86.46
PT Sta. 26+66.46
N 29° 07' 11.1" W
S 4° 36' 59.9" W
N 0° 29' 59.9" E
DAVID H. MORRIS, ET UX
DB 1132 PG 458
DB 1178 PG 70
DB 4240 PG 746
BM 1987 PG 277
LOT 1
IMPACT ATTENUATOR TYPE 350
END SPECIAL GRADING -L- POT STA. 371+88
BEGIN SPECIAL GRADING -L- POT STA. 369+45
1500' FULL LANE
300' TAPER
LATERAL 2' BASE DITCH WITH CLASS 'B' RIP RAP FROM STA. 15+00 TO STA. 17+00 -Y11- RT SEE DETAIL #3
2' BASE DITCH W/CLASS B RIPRAP EST. DDE 670 CY SEE DETAIL #1
15" CSP W/ELBOWS ROD AND LUG CONNECTORS W/SLEEVE GASKET
BREACH DAM DRAIN POND
TOE PROTECTION FROM STA. 377+50 TO STA. 378+90 -L- LT SEE DETAIL #6
4' BASE DITCH WITH CLASS 'I' RIP RAP EST. DDE 18 CY SEE DETAIL #8
SPECIAL LAT. V-DITCH W/CLASS 'B' RIPRAP STA. 375+75 TO 376+50 -L- RT SEE DETAIL #16
BERM DITCH WITH CLASS 'B' RIP RAP FROM STA. 376+50 TO STA. 382+50 -L- RT SEE DETAIL #5
30" CS WITH ELBOWS
STANDARD BERM DITCH FROM STA. 367+00 TO STA. 370+30 RT TIE TO LATERAL DITCH
18" CSP WITH ELBOWS ROD AND LUG WITH SLEEVE GASKET
CLASS 'I' RIP RAP
LATERAL 2' BASE DITCH FROM STA. 22+50 TO STA. 24+20 -Y11- RT SEE DETAIL #4
LATERAL V-DITCH STA. 24+20 TO STA. 24+60 -Y11- RT STA. 25+80 TO STA. 28+00 -Y11- RT SEE DETAIL #7
END WW FENCE
END CA
FOR -L- PROFILE SEE SHEET 42
FOR -TOLLCD1- PROFILE SEE SHEET 67
FOR -TOLLCD2- PROFILE SEE SHEET 68
FOR -Y9- PROFILE SEE SHEETS 56 TO 57
FOR -Y11- PROFILE SEE SHEETS 57 TO 58
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -L- PROFILE SEE SHEET 43

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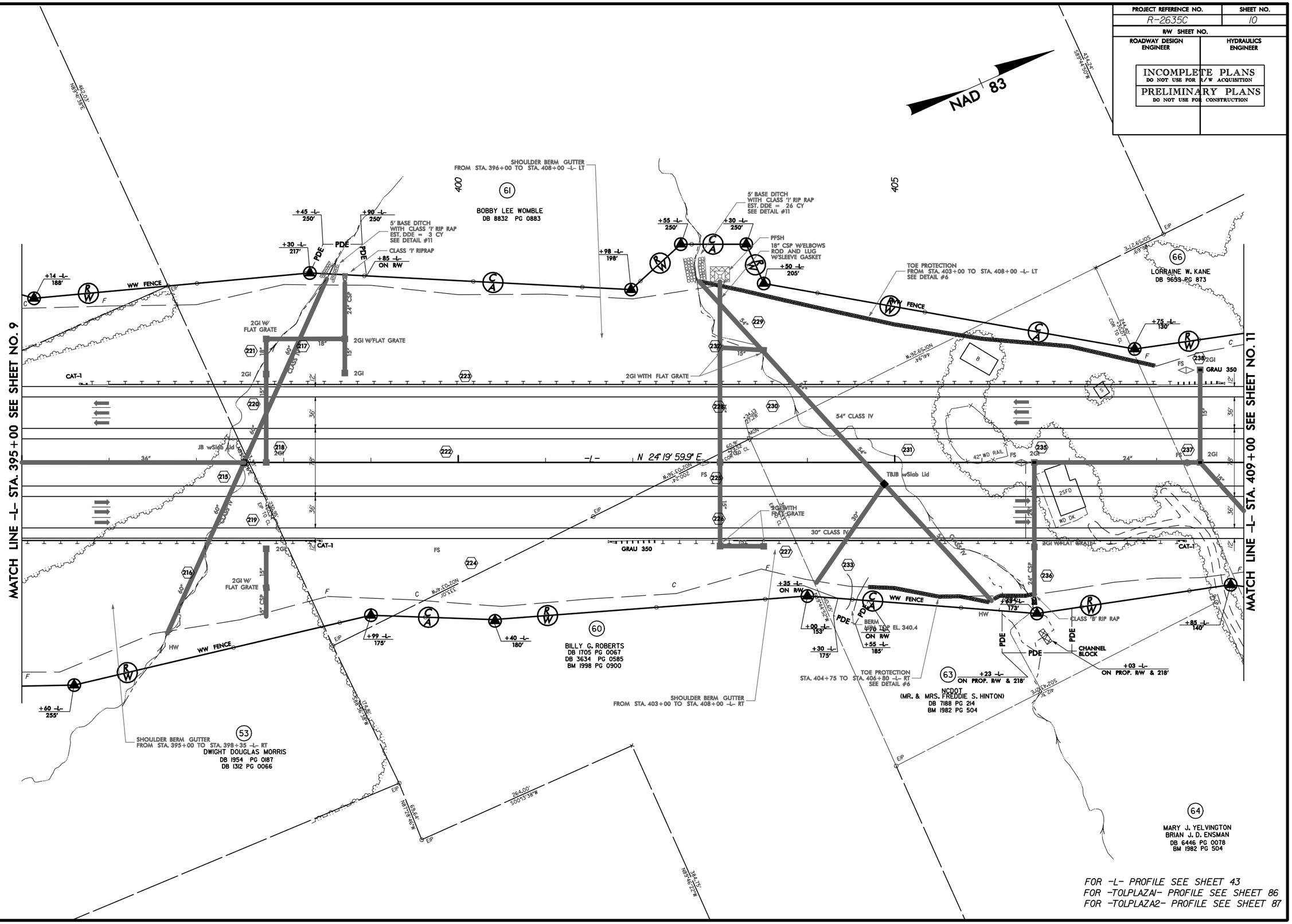
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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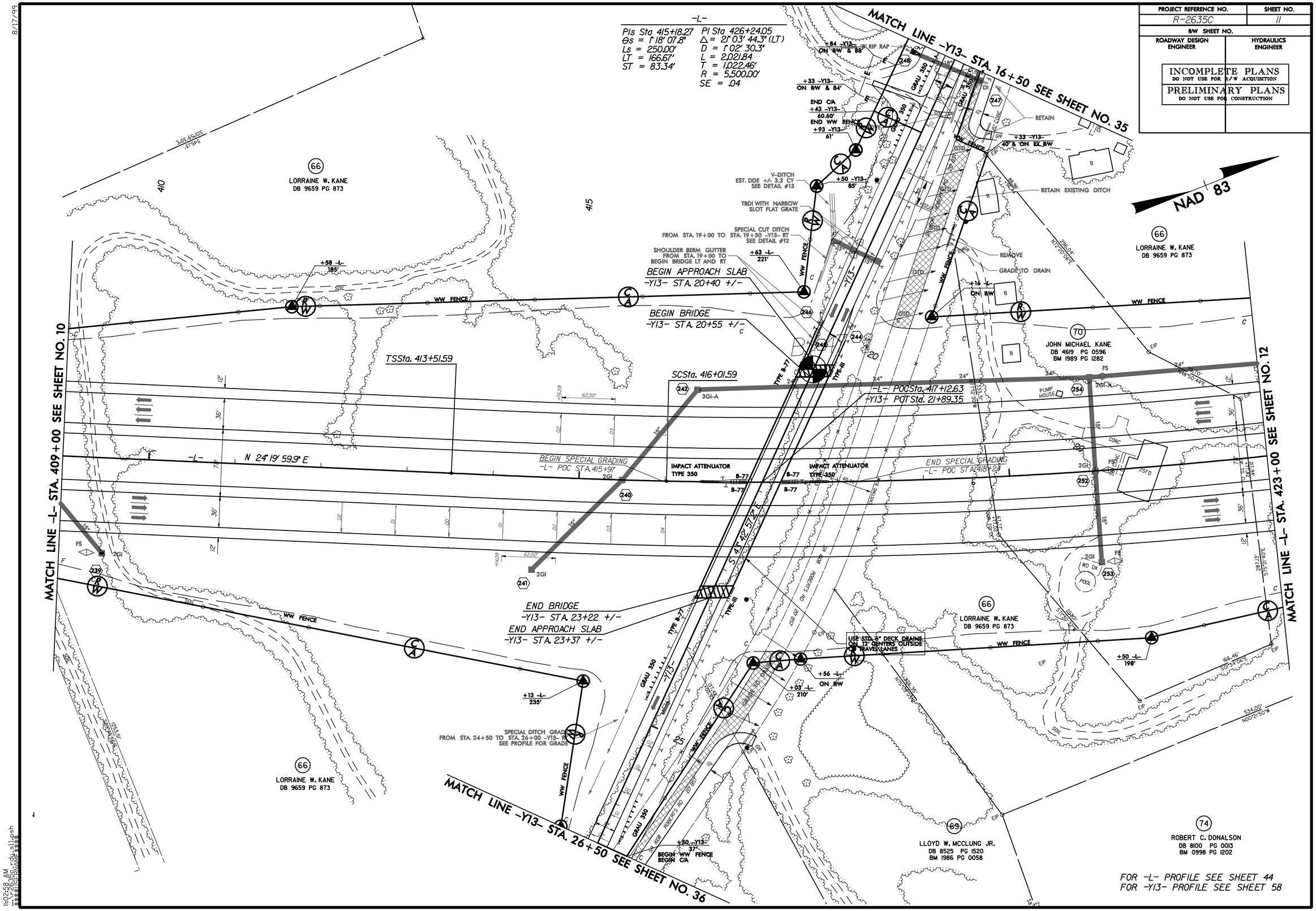
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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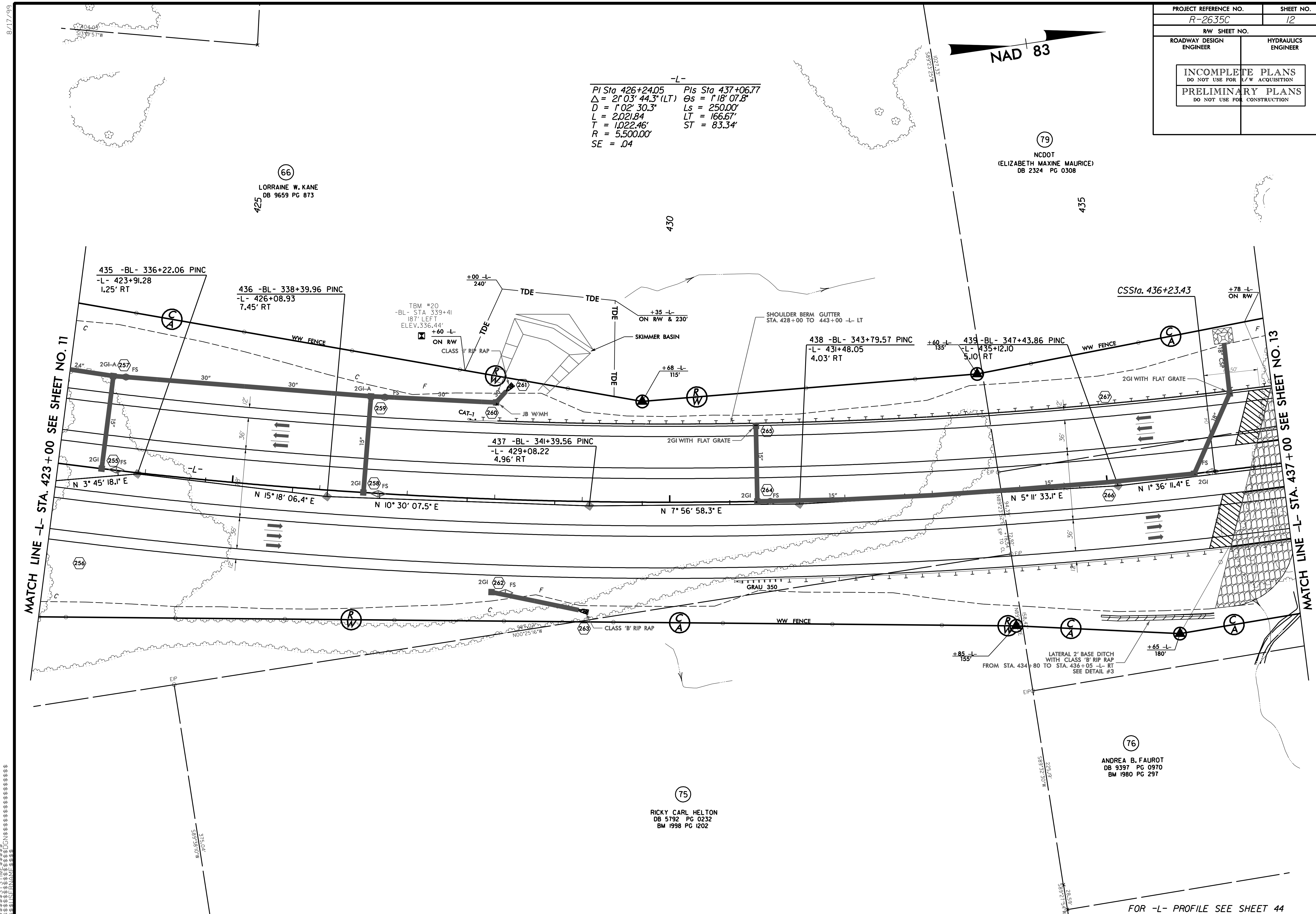
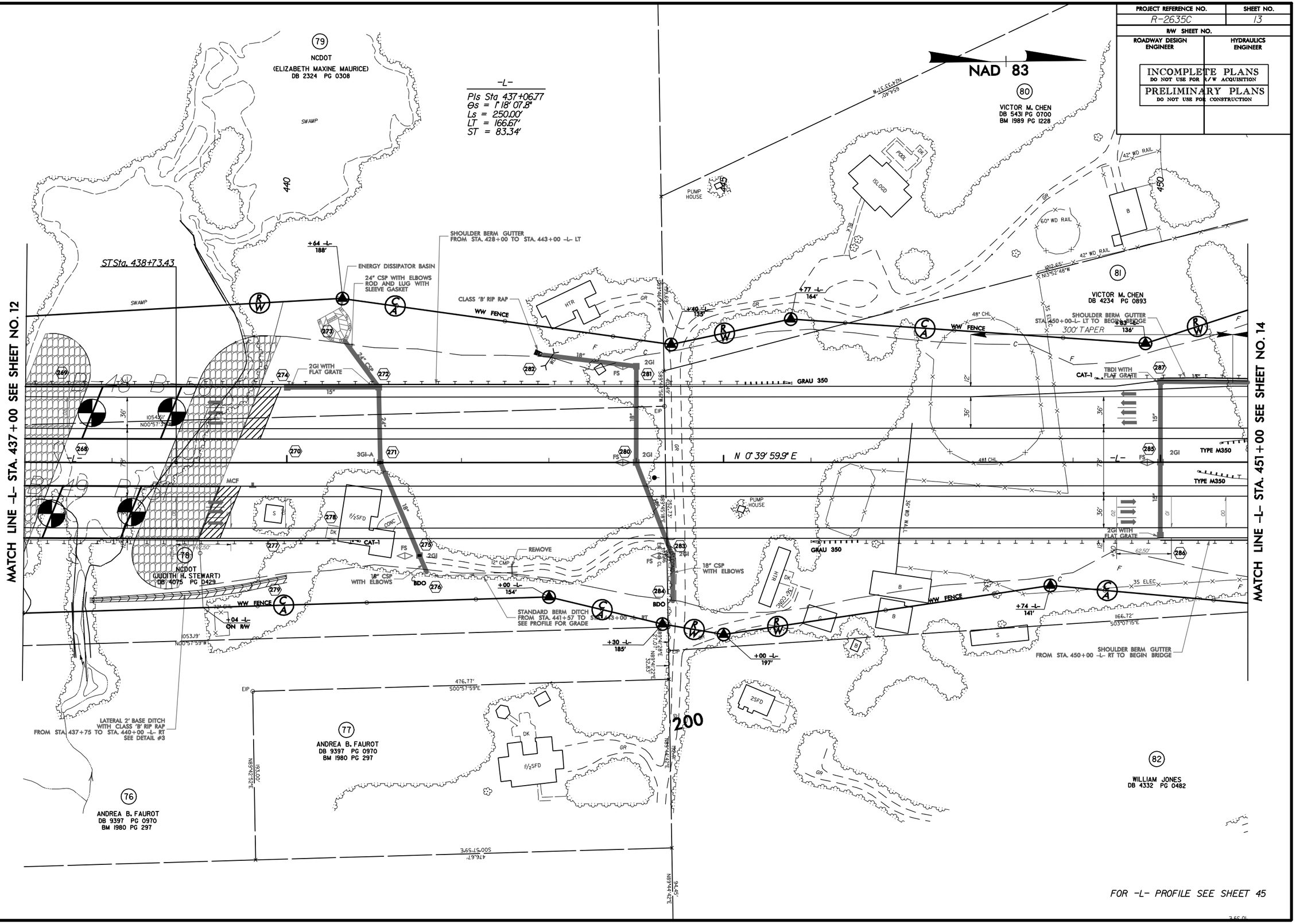

PROJECT REFERENCE NO.
SHEET NO.
R-2635C
12
RW SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
NAD 83
-L-
PI Sta 426+24.05
△ = 21° 03' 44.3" (LT)
D = 1° 02' 30.3"
L = 2,021.84
T = 1,022.46'
R = 5,500.00'
SE = .04
PIs Sta 437+06.77
θs = 1° 18' 07.8"
Ls = 250.00'
LT = 166.67'
ST = 83.34'
66
LORRAINE W. KANE
DB 9659 PG 873
79
NCDOT
(ELIZABETH MAXINE MAURICE)
DB 2324 PG 0308
425
430
435
435 -BL- 336+22.06 PINC
-L- 423+91.28
1.25' RT
436 -BL- 338+39.96 PINC
-L- 426+08.93
7.45' RT
437 -BL- 341+39.56 PINC
-L- 429+08.22
4.96' RT
438 -BL- 343+79.57 PINC
-L- 431+48.05
4.03' RT
439 -BL- 347+43.86 PINC
-L- 435+12.10
5.10' RT
CSSta. 436+23.43
TBM #20
-BL- STA 339+41
187' LEFT
ELEV.336.44'
+00 -L-
240'
+60 -L-
ON RW
+35 -L-
ON R/W & 230'
+68 -L-
115'
+60 -L-
135'
+78 -L-
ON RW
TDE
SKIMMER BASIN
CLASS 'I' RIP RAP
SHOULDER BERM GUTTER
STA. 428+00 TO 443+00 -L- LT
WW FENCE
JB W/MH
CAT-1
2GI WITH FLAT GRATE
N 3° 45' 18.1" E
N 15° 18' 06.4" E
N 10° 30' 07.5" E
N 7° 56' 58.3" E
N 5° 11' 33.1" E
N 1° 36' 11.4" E
GRAU 350
CLASS 'B' RIP RAP
+85 -L-
155'
+65 -L-
180'
LATERAL 2' BASE DITCH
WITH CLASS 'B' RIP RAP
FROM STA. 434+80 TO STA. 436+05 -L- RT
SEE DETAIL #3
MATCH LINE -L- STA. 423+00 SEE SHEET NO. 11
MATCH LINE -L- STA. 437+00 SEE SHEET NO. 13
75
RICKY CARL HELTON
DB 5792 PG 0232
BM 1998 PG 1202
76
ANDREA B. FAUROT
DB 9397 PG 0970
BM 1980 PG 297
FOR -L- PROFILE SEE SHEET 44

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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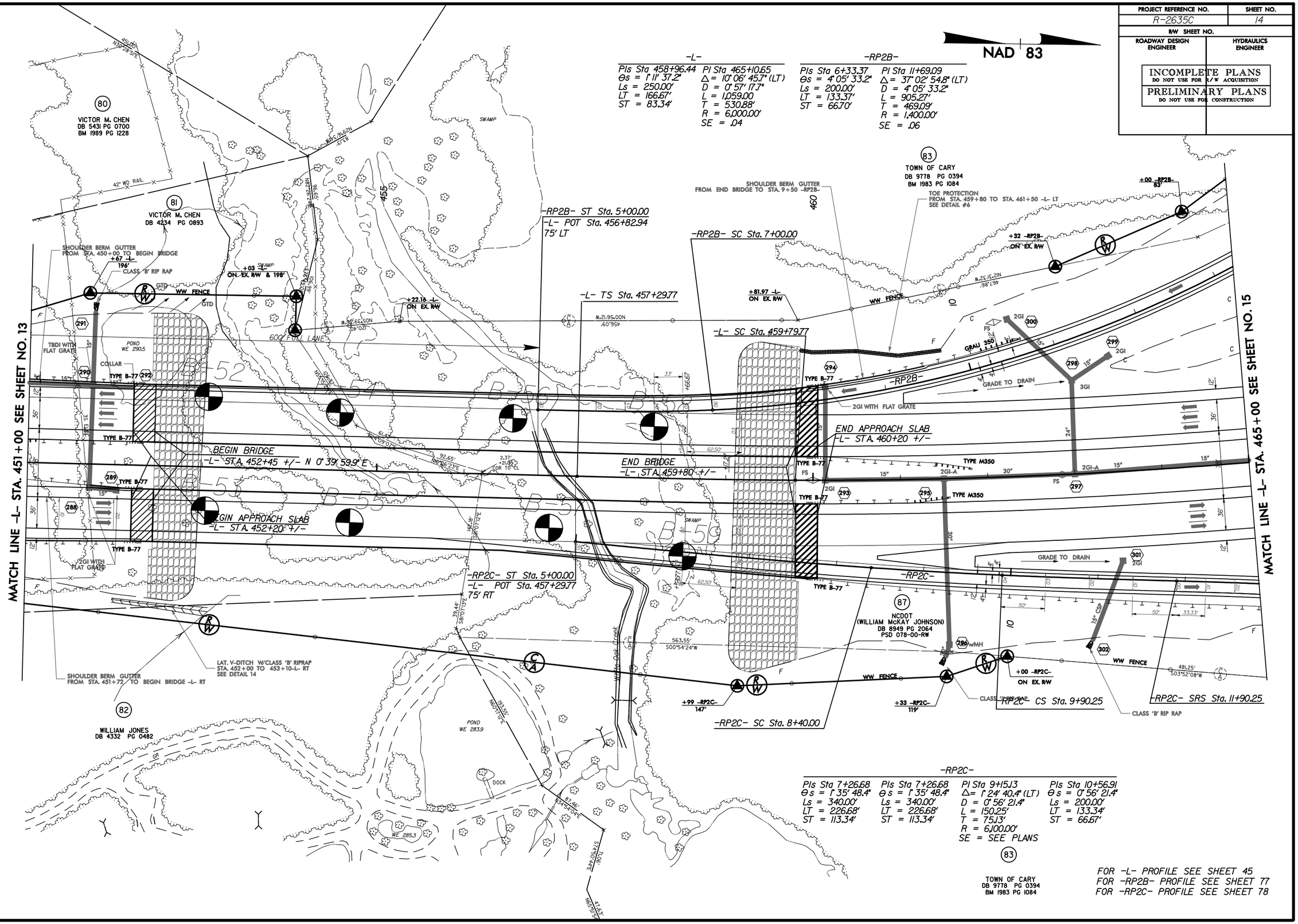
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83



-L-

PIs Sta 458+96.44	PI Sta 465+10.65
Θs = 1° 11' 37.2"	Δ = 10° 06' 45.7" (LT)
Ls = 250.00'	D = 0° 57' 17.7"
LT = 166.67'	L = 1,059.00
ST = 83.34'	T = 530.88'
	R = 6,000.00'
	SE = .04

-RP2B-

PIs Sta 6+33.37	PI Sta 11+69.09
Θs = 4° 05' 33.2"	Δ = 37° 02' 54.8" (LT)
Ls = 200.00'	D = 4° 05' 33.2"
LT = 133.37'	L = 905.27'
ST = 66.70'	T = 469.09'
	R = 1,400.00'
	SE = .06

-RP2C-

PIs Sta 7+26.68	PIs Sta 7+26.68	PI Sta 9+15.13	PIs Sta 10+56.91
Θs = 1° 35' 48.4"	Θs = 1° 35' 48.4"	Δ = 1° 24' 40.4" (LT)	Θs = 0° 56' 21.4"
Ls = 340.00'	Ls = 340.00'	D = 0° 56' 21.4"	Ls = 200.00'
LT = 226.68'	LT = 226.68'	L = 150.25'	LT = 133.34'
ST = 113.34'	ST = 113.34'	T = 75.13'	ST = 66.67'
		R = 6,100.00'	
		SE = SEE PLANS	

FOR -L- PROFILE SEE SHEET 45
FOR -RP2B- PROFILE SEE SHEET 77
FOR -RP2C- PROFILE SEE SHEET 78

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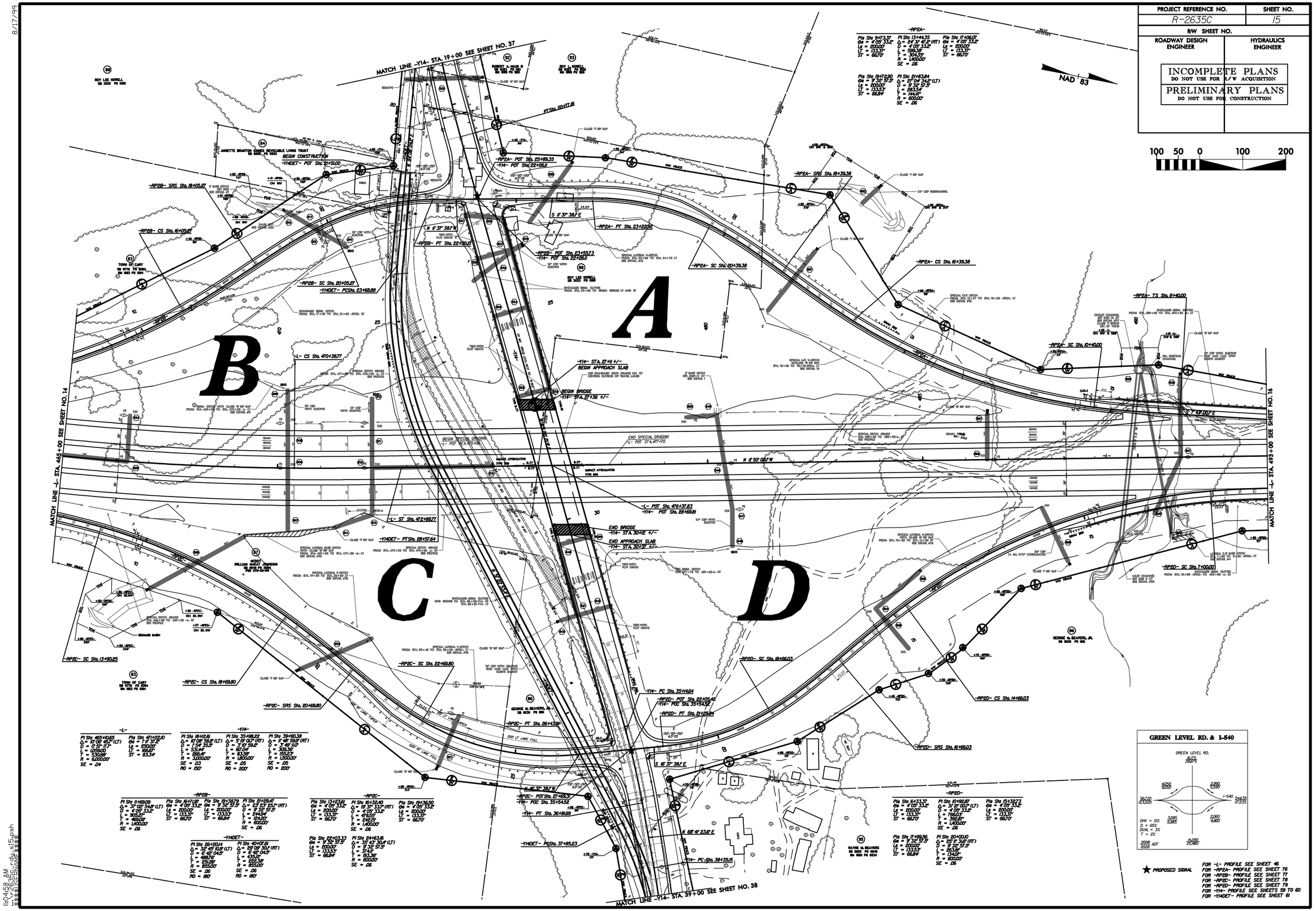
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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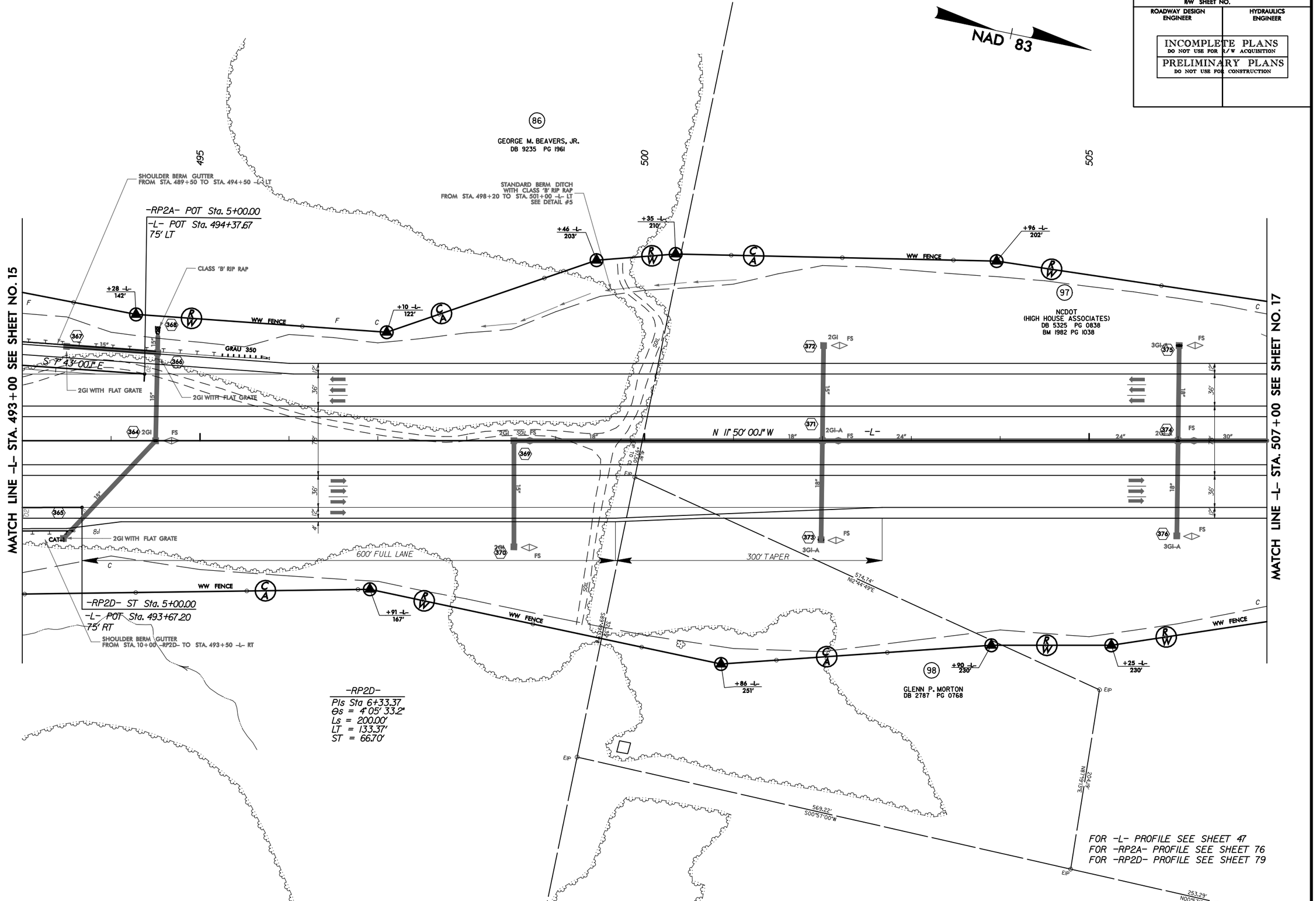
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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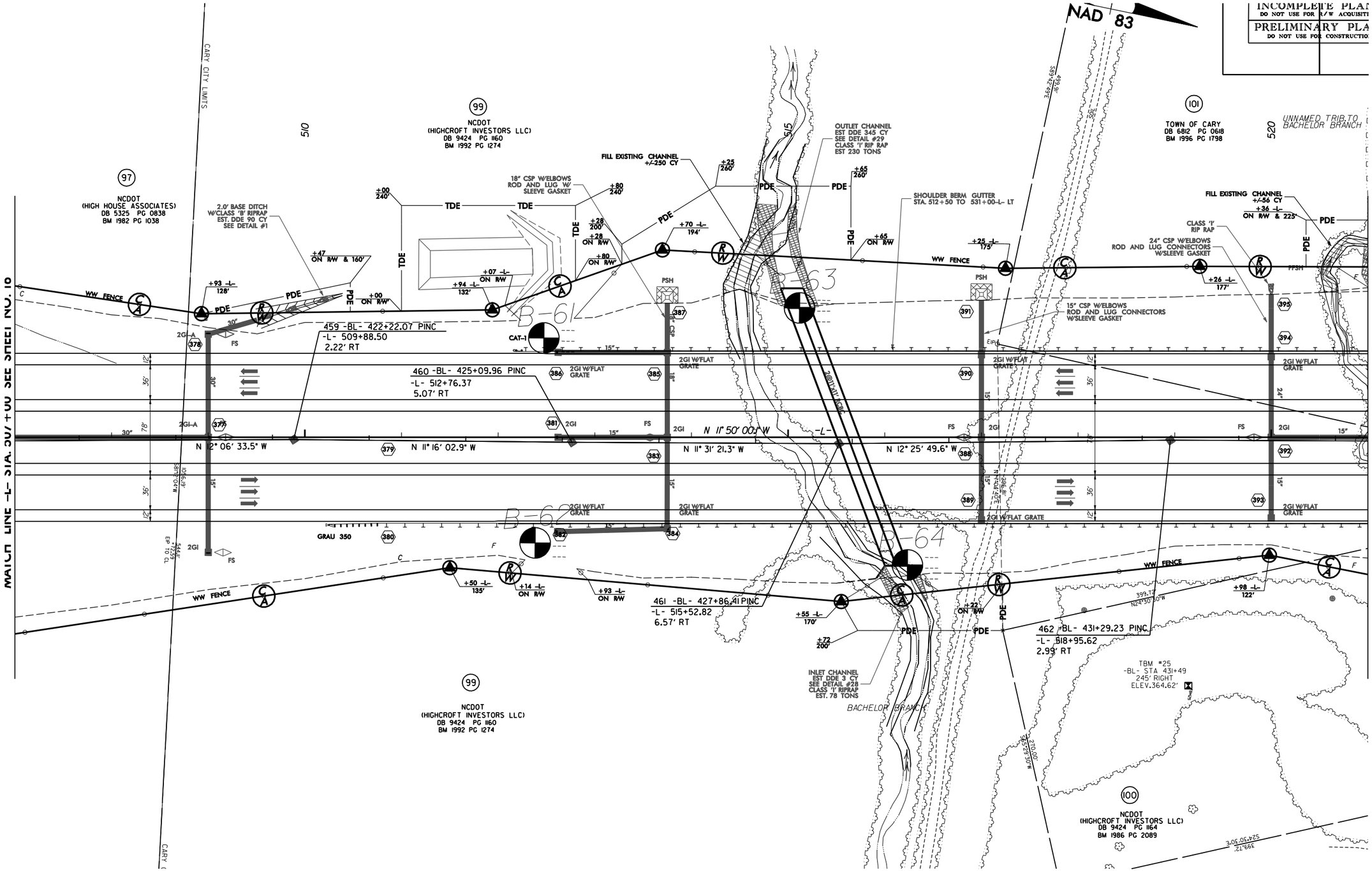
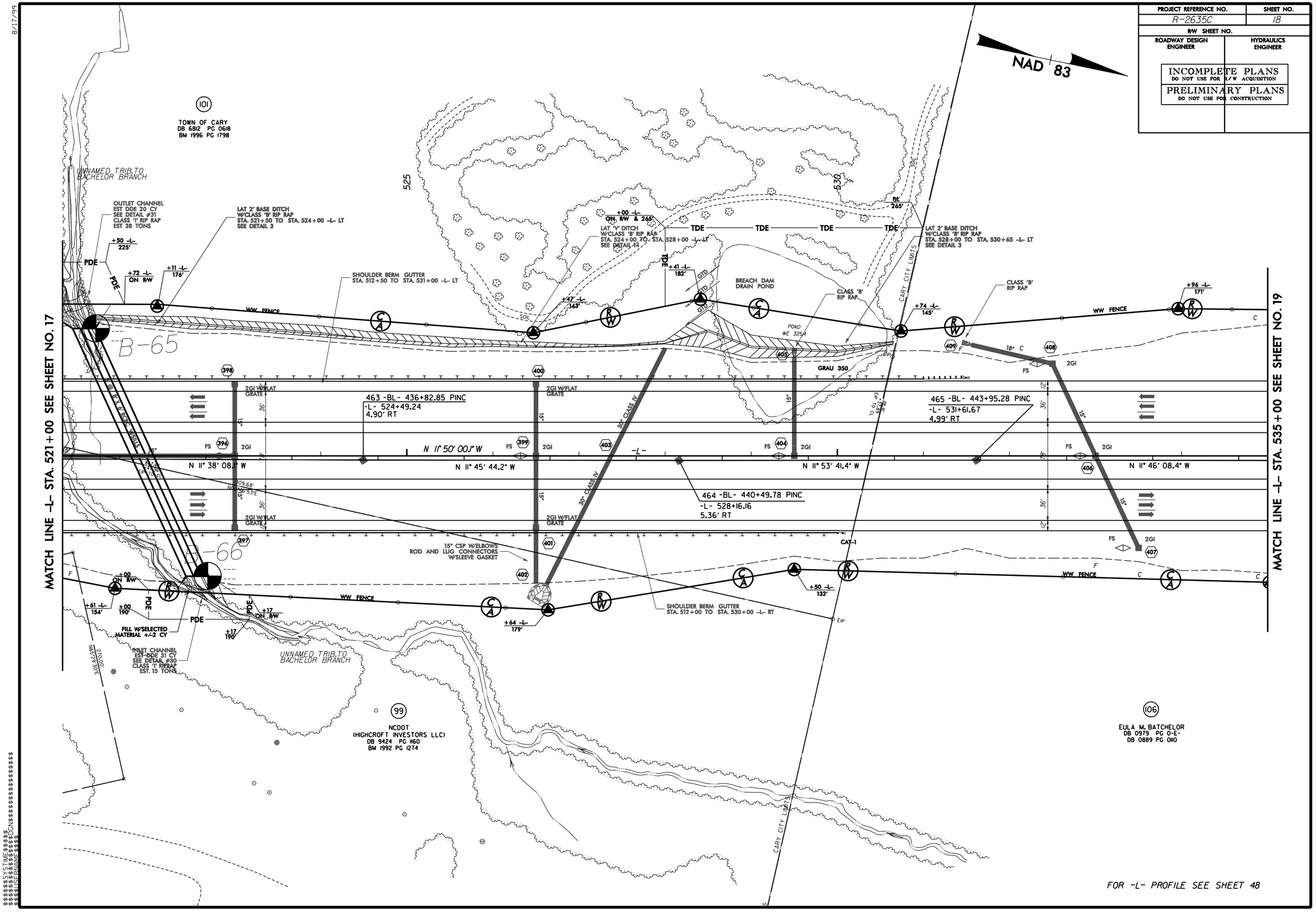

NAD 83
INCOMPLETE PLAN
DO NOT USE FOR R/W ACQUISITI
PRELIMINARY PLA
DO NOT USE FOR CONSTRUCTIO
MAIN LINE -L- STA. 507+00 SEE SHEET NO. 10
CARY CITY LIMITS
97
NCDOT
(HIGH HOUSE ASSOCIATES)
DB 5325 PG 0838
BM 1982 PG 1038
99
NCDOT
(HIGHCROFT INVESTORS LLC)
DB 9424 PG 1160
BM 1992 PG 1274
101
TOWN OF CARY
DB 6812 PG 0618
BM 1996 PG 1798
UNNAMED TRIB.TO BACHELOR BRANCH
BACHELOR BRANCH
2.0' BASE DITCH W/CLASS 'B' RIPRAP EST. DDE 90 CY SEE DETAIL #1
FILL EXISTING CHANNEL +/-250 CY
18" CSP W/ELBOWS ROD AND LUG W/ SLEEVE GASKET
OUTLET CHANNEL EST DDE 345 CY SEE DETAIL #29 CLASS 'I' RIP RAP EST 230 TONS
SHOULDER BERM GUTTER STA. 512+50 TO 531+00-L- LT
FILL EXISTING CHANNEL +/-56 CY
CLASS 'I' RIP RAP
24" CSP W/ELBOWS ROD AND LUG CONNECTORS W/SLEEVE GASKET
15" CSP W/ELBOWS ROD AND LUG CONNECTORS W/SLEEVE GASKET
INLET CHANNEL EST DDE 3 CY SEE DETAIL #28 CLASS 'I' RIPRAP EST. 78 TONS
WW FENCE
B-61
B-62
B-63
B-64
459 -BL- 422+22.07 PINC
-L- 509+88.50
2.22' RT
460 -BL- 425+09.96 PINC
-L- 512+76.37
5.07' RT
461 -BL- 427+86.41 PINC
-L- 515+52.82
6.57' RT
462 -BL- 431+29.23 PINC
-L- 518+95.62
2.99' RT
N 12° 06' 33.5" W
N 11° 16' 02.9" W
N 11° 31' 21.3" W
N 12° 25' 49.6" W
N 11° 50' 00.1" W
GRAU 350
TBM #25
-BL- STA 431+49
245' RIGHT
ELEV.364.62'
100
NCDOT
(HIGHCROFT INVESTORS LLC)
DB 9424 PG 1164
BM 1986 PG 2089

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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PROJECT REFERENCE NO.	SHEET NO.
R-2635C	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

103 JAMES G. BATCHELOR DB 5869 PG 0815

104 BILLY J. BATCHELOR DB 2491 PG 223

105 BILLY JOE HILLIARD DB 2507 PG 265

96 CRAIG HILLIARD DB 4478 PG 0217

109 THELMA B. HALLOCK HEIRS DB 2299 PG 554 DB 2299 PG 559 DB 2824 PG 774

106 EULA M. BATCHELOR DB 0979 PG 0-E- DB 0889 PG 0110

-BL- 471 B+40.23 PINC

-Y15- POT Sta. 10+00.00 BEGIN CONST.

-Y15- PC Sta. 13+65.17

+13 -Y15- ON EX. R/W

TIE TO EXISTING DITCH

+58 -Y15- 56'

+11 -Y15- ON EX. R/W

+47 -Y15- 50'

REMOVE

+80 -Y15- ON R/W BEGIN WW FENCE BEGIN C/A

+92 -Y15- ON EX. R/W

+19 -Y15- ON EX. R/W & 90'

+76 -Y15- ON EX. R/W & 90'

+83 -Y15- ON EX. R/W END WW FENCE END C/A

GRADE DITCH TO DRAIN

+31 -Y15- ON EX. R/W

TBM W/NARROW SLOT FLAT GRATE

CLASS 'B' RIP RAP

WW FENCE

N 36° 30' 40.66" E

N 41° 42' 52.2" E

N 00° 49' 29" E 420.45'

N 00° 10' 05" W 373.79'

N 00° 10' 05" W 205.16'

N 05° 09' 58" W 291.42'

N 87° 17' 08" E 592.08'

S 89° 17' 34" E 560.15'

S 89° 17' 34" E 3.80'

N 89° 61' 55" E 45.92'

HTR

540

545

MATCH LINE

SKIMMER BASIN

TDE

+39 -L- 305'

+19 -L- 305'

TBM #26 -BL- STA 448+52 223' LEFT ELEV. 355.58'

MATCH LINE -L- STA. 535+00 SEE SHEET NO. 18

MATCH LINE -L- STA. 549+00 SEE SHEET NO. 20

466 -BL- 448+18.41 PINC
-L- 535+84.79
5.46' RT

STD BERM DITCH STA. 535+50 TO STA. 544+00 -L- LT

+85 -L- 164'

BDO

412 411 410 414 413 415 416 417 418 419 420 421 422 423 424

18" CSP W/ELBOWS

24" CSP W/ELBOWS

2GI

2GI-A

FS

N 11° 50' 00.1" W

N 11° 44' 36.7" W

N 12° 01' 21.0" W

N 11° 47' 19.8" W

N 11° 49' 36.5" W

467 -BL- 453+30.92 PINC
-L- 540+97.30
6.27' RT

468 -BL- 457+21.77 PINC
-L- 544+88.15
4.98' RT

469 -BL- 459+30.13 PINC
-L- 546+96.51
5.14' RT

2GI W/FLAT GRATE

GRAU 350

SHOULDER BERM GUTTER STA. 537+00 TO STA. 540+50 -L- RT

CAT-1

24" CSP W/ELBOWS ROD AND LUG CONNECTORS W/SLEEVE GASKET

CLASS 'B' RIP RAP

+02 -L- 147'

+43 -L- ON R/W

+99 -L- 128'

+58 -L- 146'

+41 -L- ON R/W

+71 -L- 124'

PI Sta 19+26.85
Δ = 2° 08' 42.7" (RT)
D = 0° 11' 27.5"
L = 1,123.22'
T = 561.67'
R = 30,000.00'
SE = NC

FOR -L- PROFILE SEE SHEET 48
FOR -Y15- PROFILE SEE SHEET 62

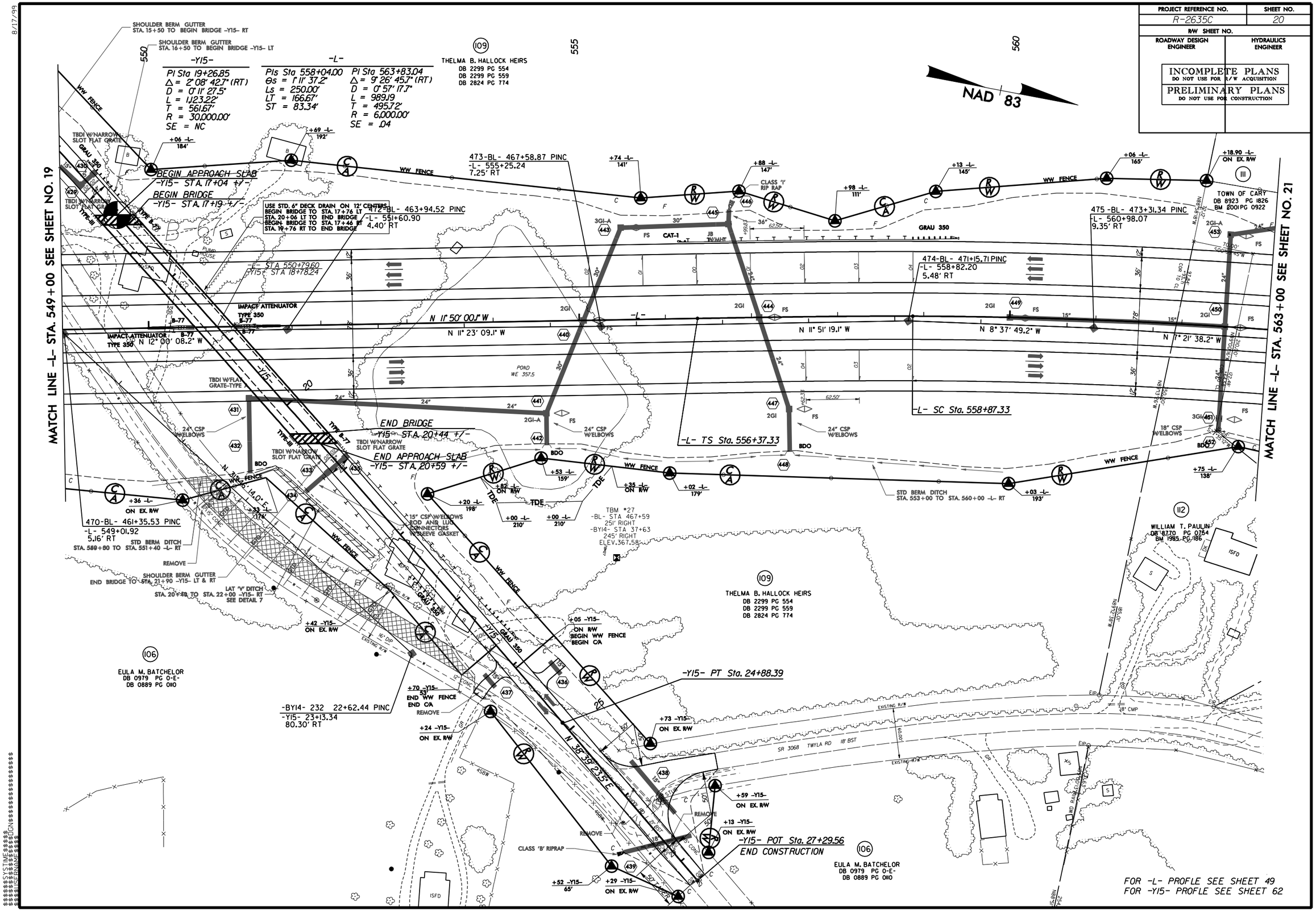
8/17/99

$$$$$$$$SYSTIME$$$$$$$$
$$$$$$$$USERNAME$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
R-2635C	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

-L-

PI Sta 563+83.04
Δ = 9° 26' 45.7" (RT)
D = 0° 57' 17.7"
L = 989.19
T = 495.72'
R = 6,000.00'
SE = .04

PIs Sta 569+59.85
Θs = 1° 11' 37.2"
Ls = 250.00'
LT = 166.67'
ST = 83.34'

TOWN OF CARY
DB 8923 PG 1826
BM 2001 PG 0922

MATCH LINE -L- STA. 563+00 SEE SHEET NO. 20

MATCH LINE -L- STA. 577+00 SEE SHEET NO. 22

+53 -L- ON EX. R/W

+44 -L- 206'

+90 -L- ON R/W

+10 -L- ON R/W

+59 -L- 289'

+46.87 -L- 197.91'

+95 -L- 200'

+15 -L- ON R/W

+52 -L- 152'

CSSta. 568+76.51

STSta. 571+26.51

WW FENCE

CARY CITY LIMITS

STD BERM DITCH
STA. 572+50 TO STA 576+50 -L- LT

CLASS 'I' RIP RAP

CLASS 'B' RIP RAP
EST 8 TONS

GRAU 350

CAT-1

BDO

18" CSP

3GI-A

2GI

3GI

NCDOT
DB 7315 PG 0353
PSD 059-96-RW

Due North

POND
WE 339.0

GRADE TO DRAIN

FOR -L- PROFILE SEE SHEET 49
FOR -MPE3- PROFILE SEE SHEETS 70 & 71

(112) WILLIAM T. PAULIN
DB 8770 PG 0754
BM 1985 PG 186

(113) NCDOT
(SARA JANE MILLS HAWES)
DB 3426 PG 0034
BM 1985 PG 0186

(114) NCDOT
(SARA JANE MILLS HAWES)
DB 2852 PG 0431

(116) CLINTON D. ROGERS
DB 8122 PG 1545
BM 1985 PG 0186

(117) MILTON H. ROGERS
DB 2642 PG 0128
BM 1977 PG 0755

(120) ROBERT J. SWINGLE
DB 2605 PG 0559
BM 1977 PG 0756

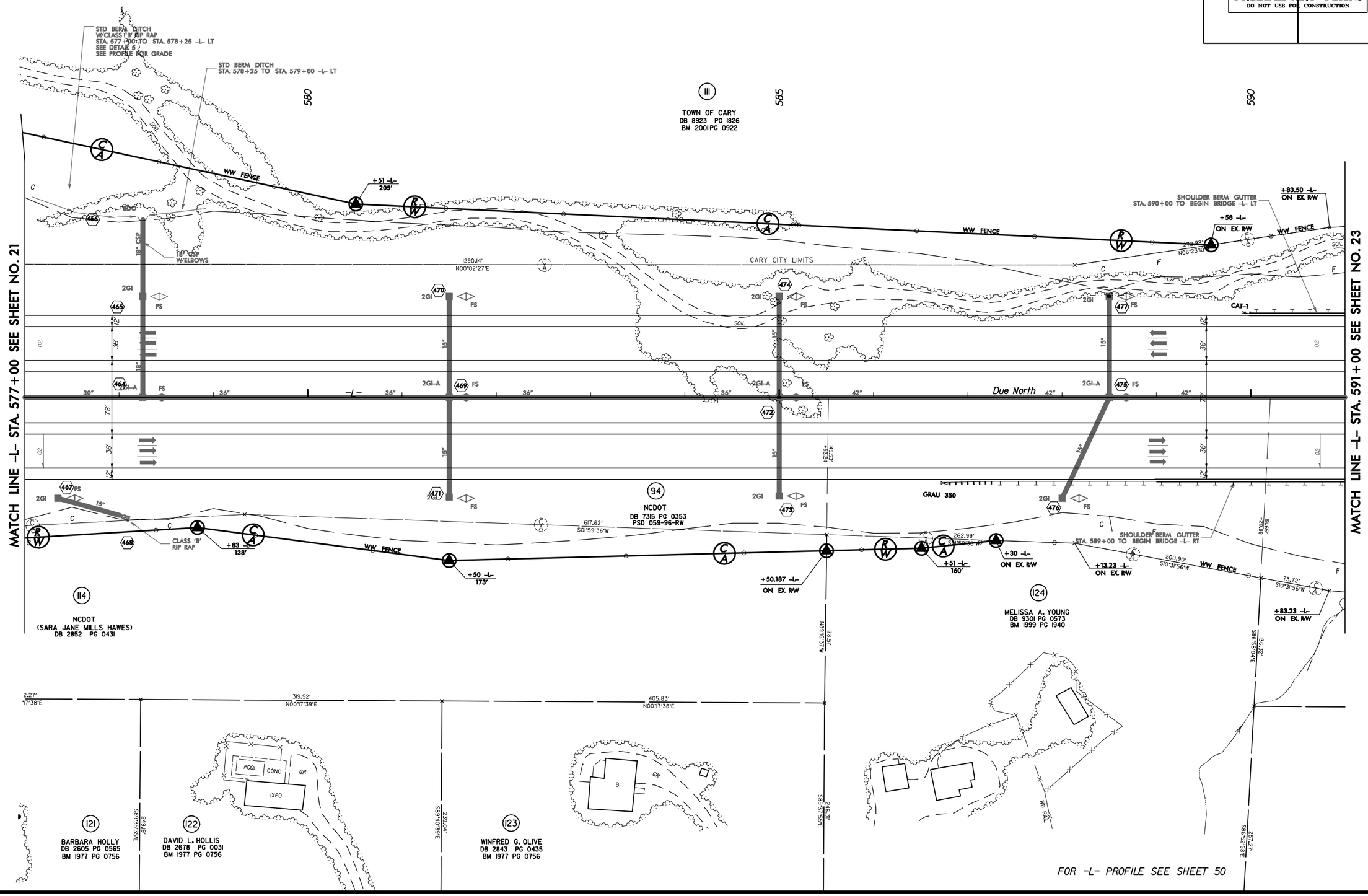
8/17/99

11:07:53 AM
R-2635C_rdy_e21.psh
$$$$$$ENGAGE$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



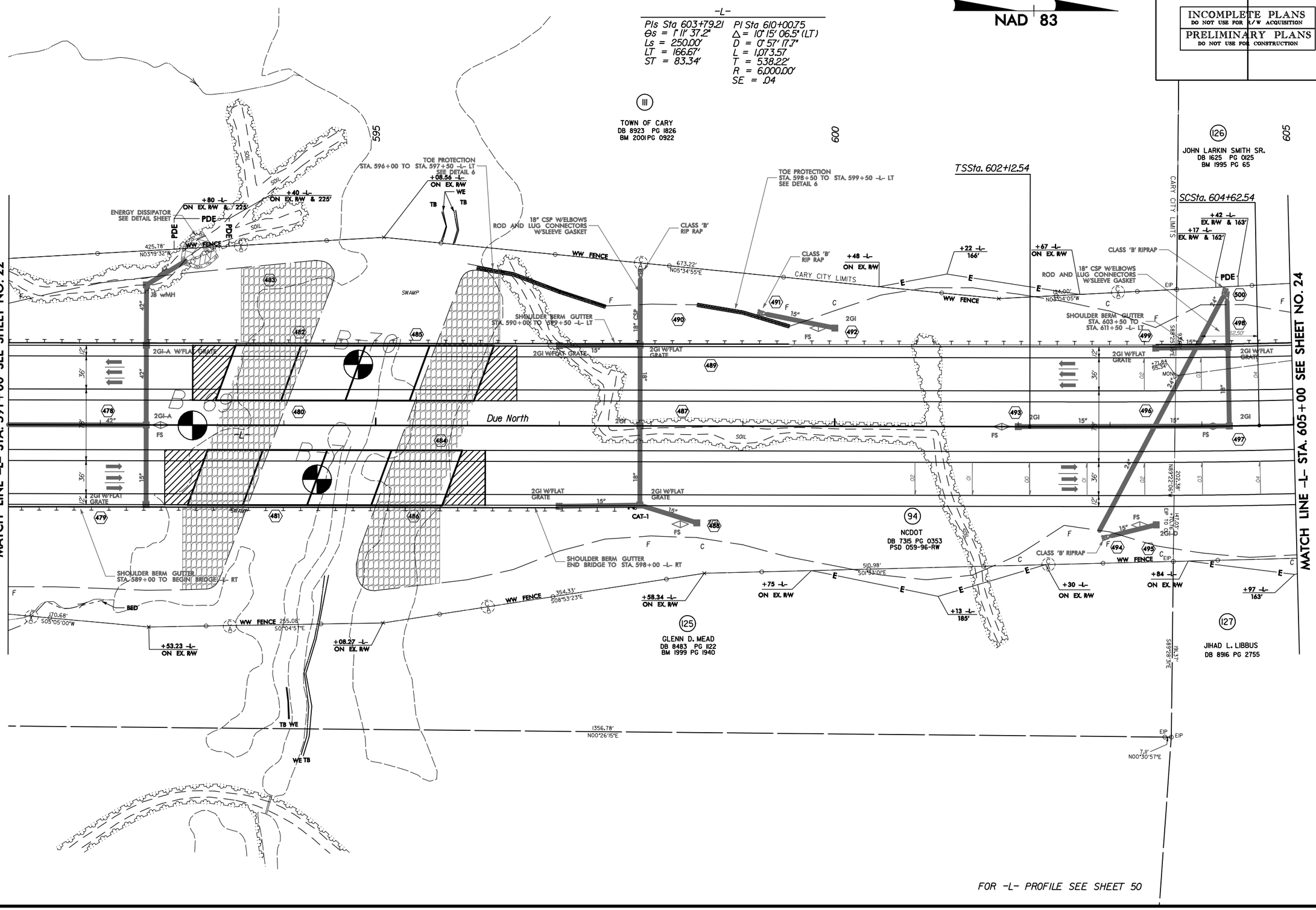
8/17/99

11:08:16 AM
\\r26sc\r-2635c_rdy_e22.psh
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



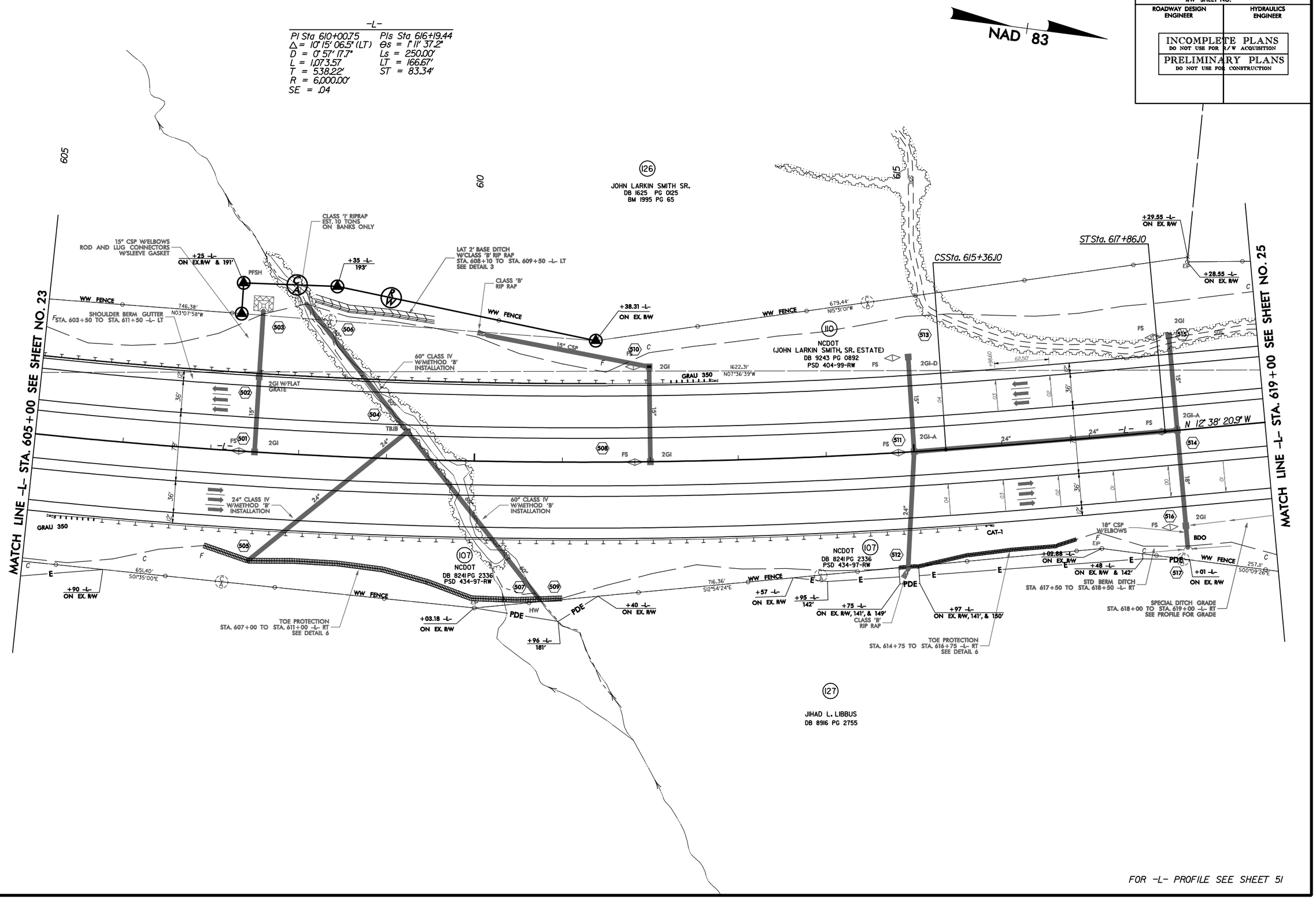
8/17/99

11:08:40 AM
R-2635c_rdu_s23.psh

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -L- PROFILE SEE SHEET 51

8/17/99

11:09:06 AM
\\r2635c_rdy_s24.psh
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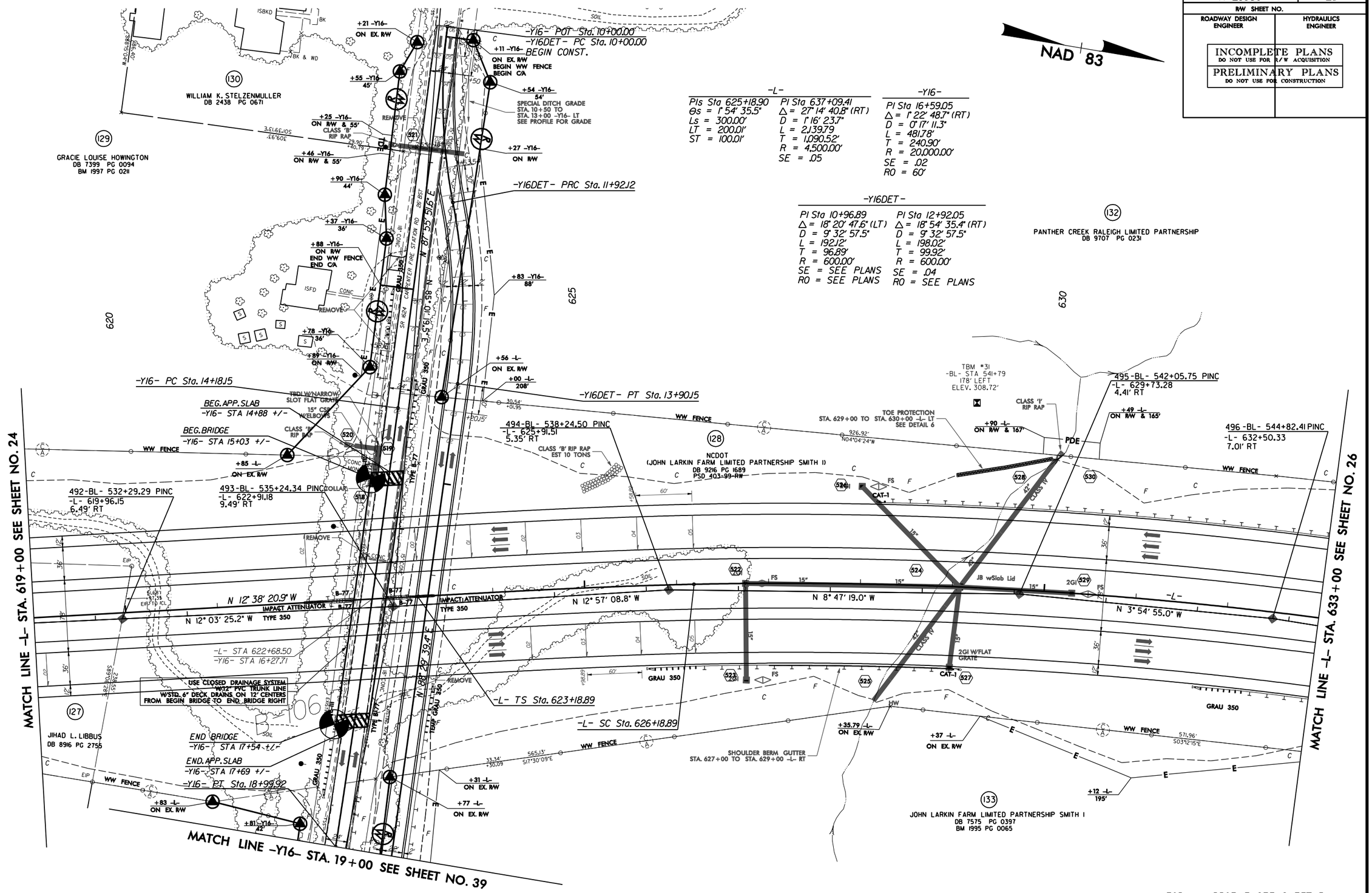
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83



-L-

PIs Sta 625+18.90	PI Sta 637+09.41
Θs = 1° 54' 35.5"	Δ = 27° 14' 40.8" (RT)
Ls = 300.00'	D = 1° 16' 23.7"
LT = 200.01'	L = 2,139.79
ST = 100.01'	T = 1,090.52'
	R = 4,500.00'
	SE = .05

-Y16-

PI Sta 16+59.05
Δ = 1° 22' 48.7" (RT)
D = 0° 17' 11.3"
L = 481.78'
T = 240.90'
R = 20,000.00'
SE = .02
RO = 60'

-Y16DET-

PI Sta 10+96.89	PI Sta 12+92.05
Δ = 18° 20' 47.6" (LT)	Δ = 18° 54' 35.4" (RT)
D = 9° 32' 57.5"	D = 9° 32' 57.5"
L = 192.12'	L = 198.02'
T = 96.89'	T = 99.92'
R = 600.00'	R = 600.00'
SE = SEE PLANS	SE = .04
RO = SEE PLANS	RO = SEE PLANS

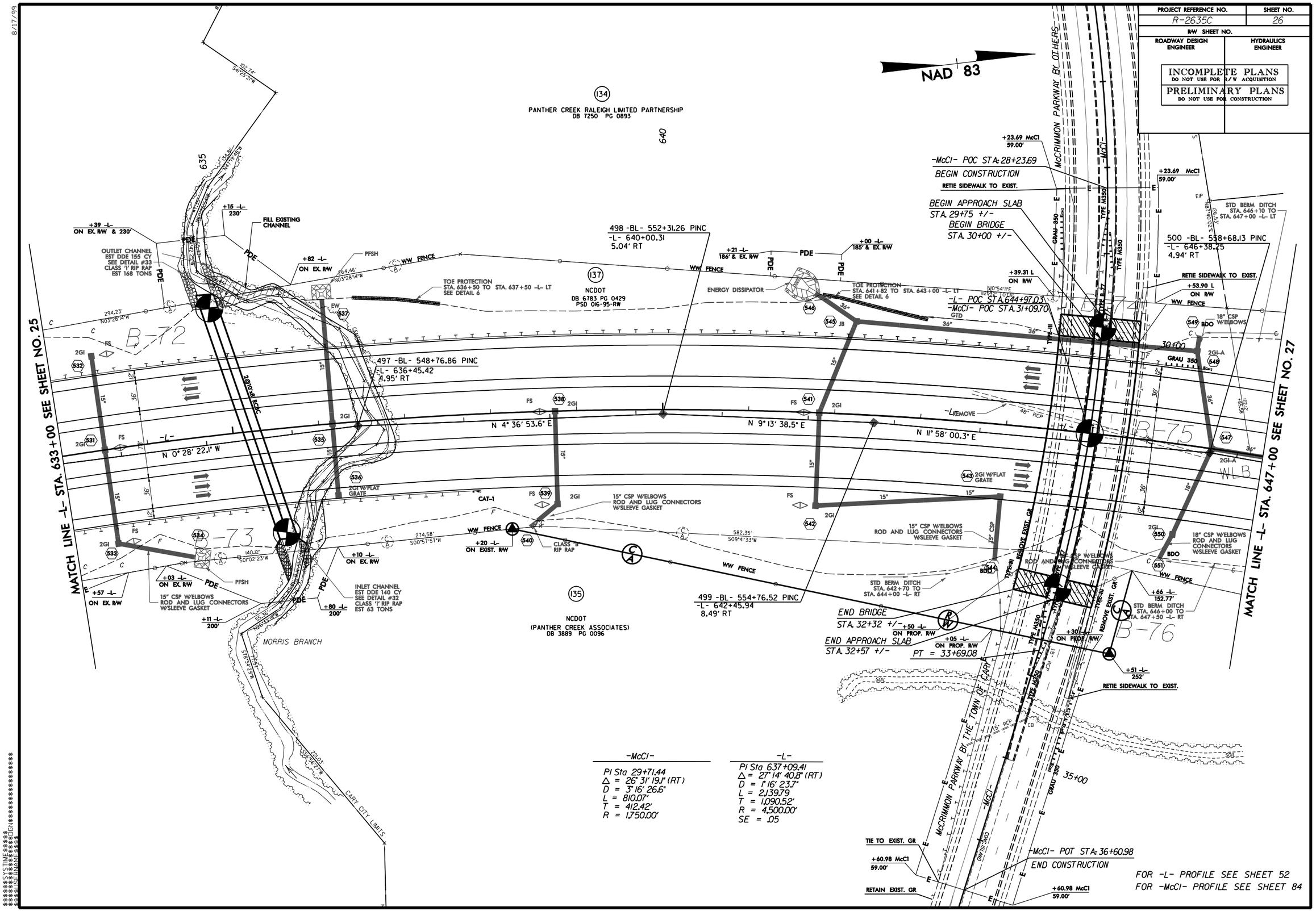
FOR -L- PROFILE SEE SHEET 51
FOR -Y16- PROFILE SEE SHEET 63
FOR -Y16DET- PROFILE SEE SHEET 64

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -L- PROFILE SEE SHEET 52
FOR -McCl- PROFILE SEE SHEET 84

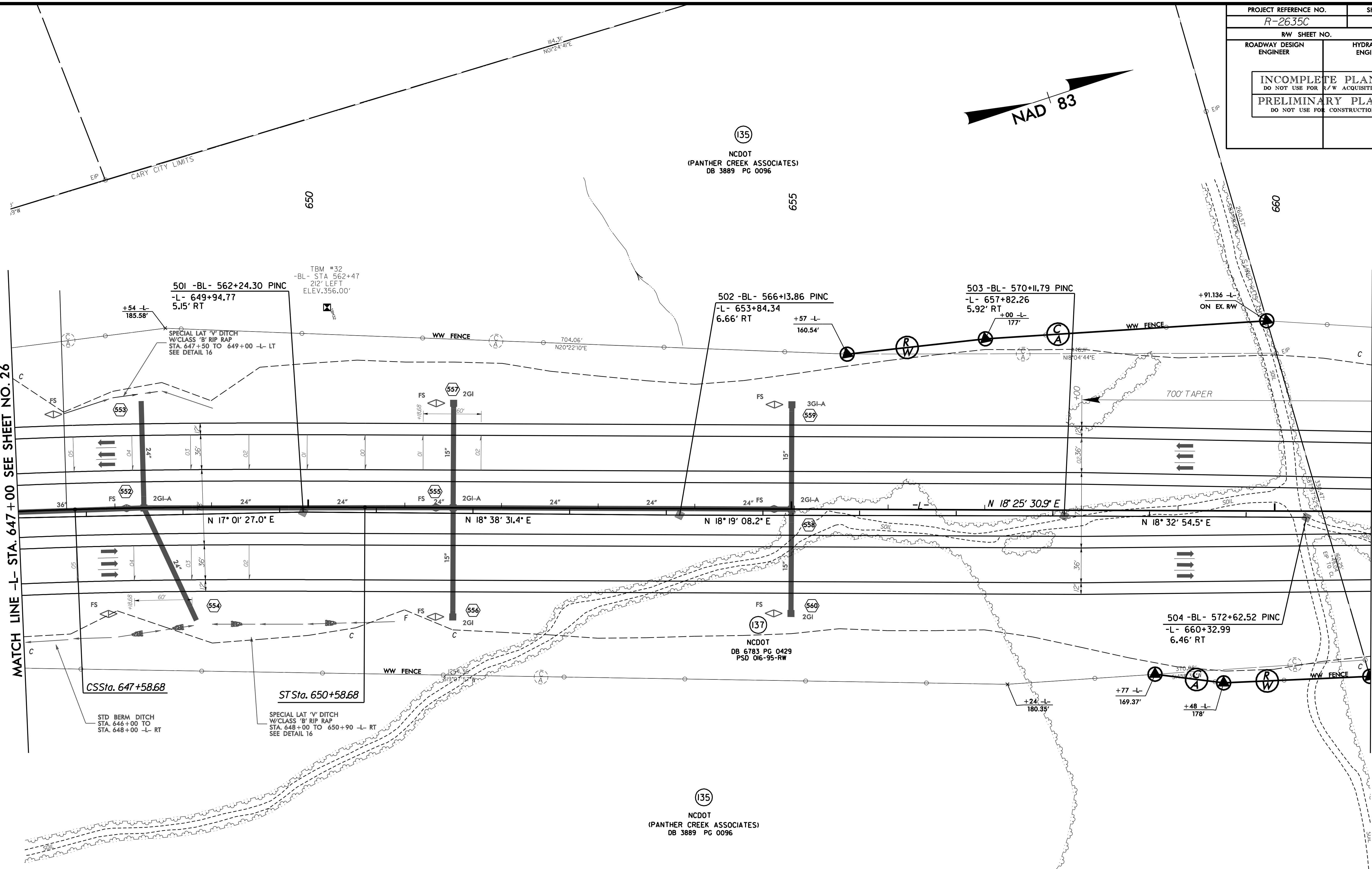
8/17/99

$$$$$$SYSTIME$$$$$$
$$$$$$SYSTEM$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$$$$$$$$$$$$$$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-L-

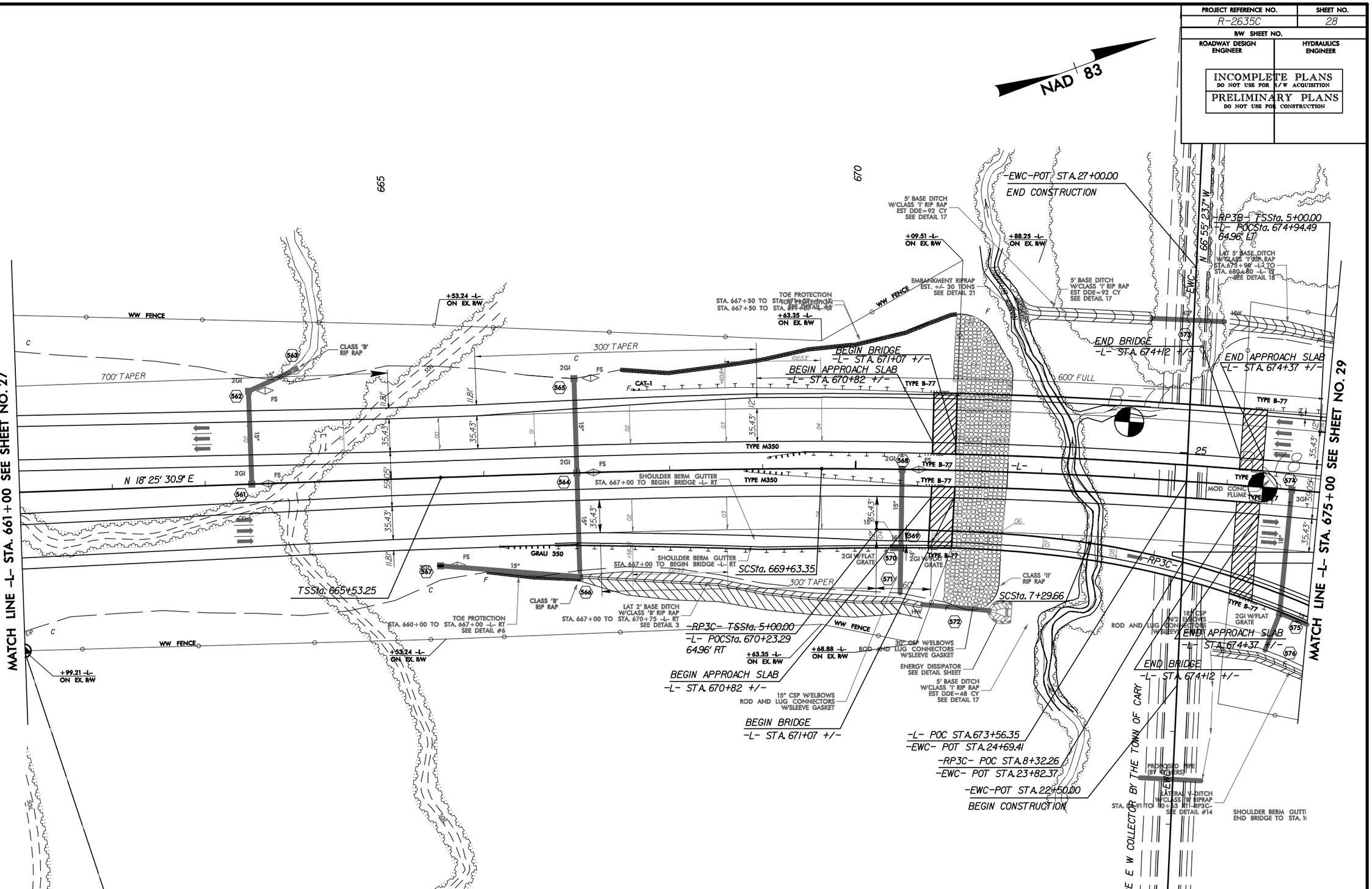
PI Sta 637+09.41	PIs Sta 648+58.69
Δ = 27° 14' 40.8" (RT)	Θs = 1° 54' 35.5"
D = 1° 16' 23.7"	Ls = 300.00'
L = 2,139.79	LT = 200.01'
T = 1,090.52'	ST = 100.01'
R = 4,500.00'	
SE = .05	

FOR -L- PROFILE SEE SHEET 52

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-RP3B-	-RP3C-		-L-	
PIs Sta 5+54.68	PIs Sta 6+42.13	PI Sta 8+99.63	PIs Sta 668+26.67	PI Sta 695+85.11
Θs = 0° 48' 33.7"	Θs = 1° 09' 30.9"	Δ = 19° 55' 15.0" (RT)	Θs = 2° 02' 46.6"	Δ = 49° 05' 10.7" (RT)
Ls = 164.04'	Θs = 6° 47' 53.7"	D = 5° 55' 11.7"	Ls = 410.10'	D = 0° 59' 52.6"
LT = 109.36'	Ls = 229.66'	L = 336.50'	LT = 273.42'	L = 4,918.81'
ST = 54.68'	LT = 142.13'	T = 169.97'	ST = 136.72'	T = 2,621.76'
	ST = 87.86'	R = 967.85'		R = 5,741.46'
		SE = .08		SE = .04

FOR -L- PROFILE SEE SHEET 53
FOR -RP3B- PROFILE SEE SHEET 81
FOR -RP3C- PROFILE SEE SHEET 81
FOR -EWC- PROFILE SEE SHEET 85

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11:17 AM
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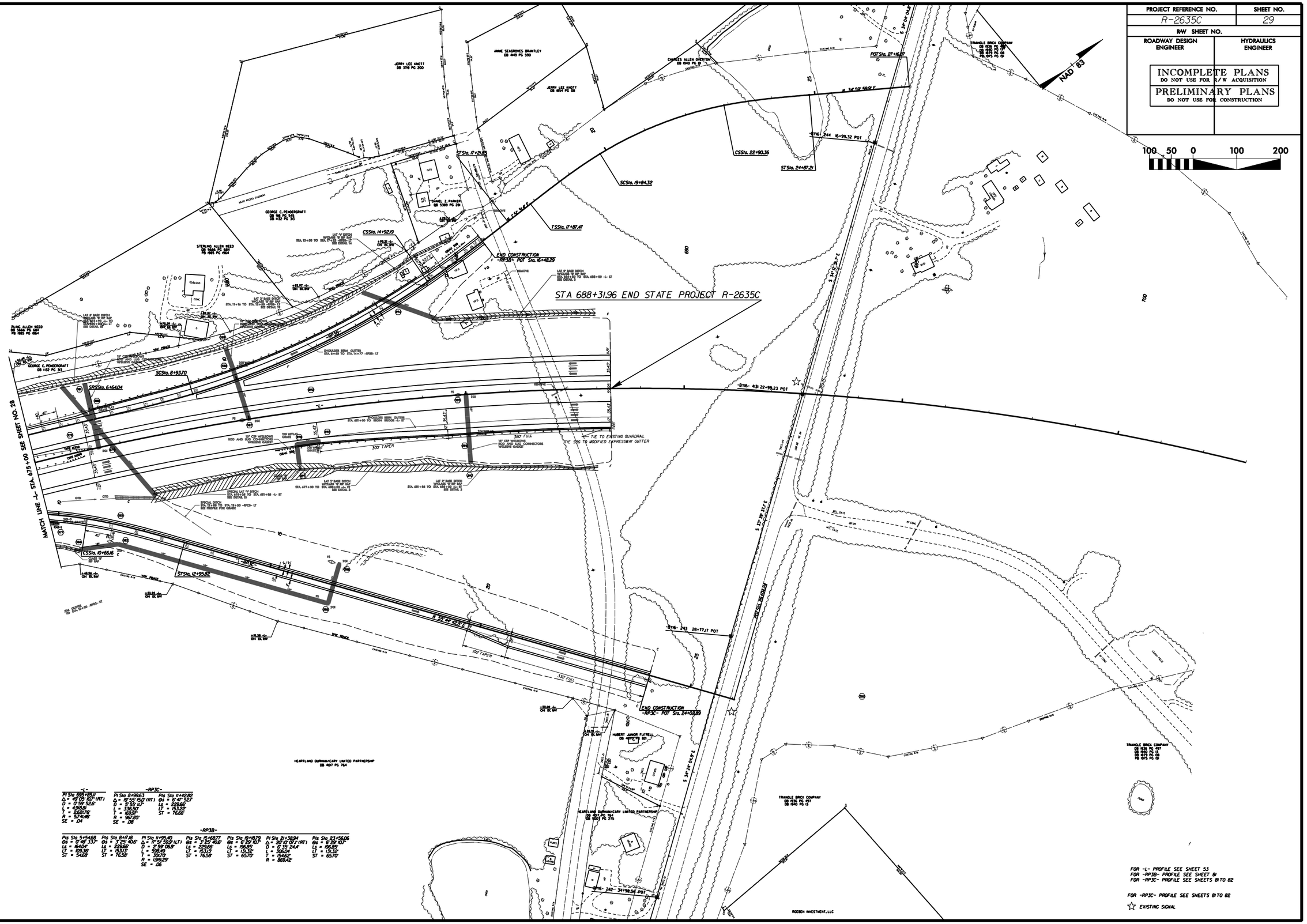
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

100 50 0 100 200



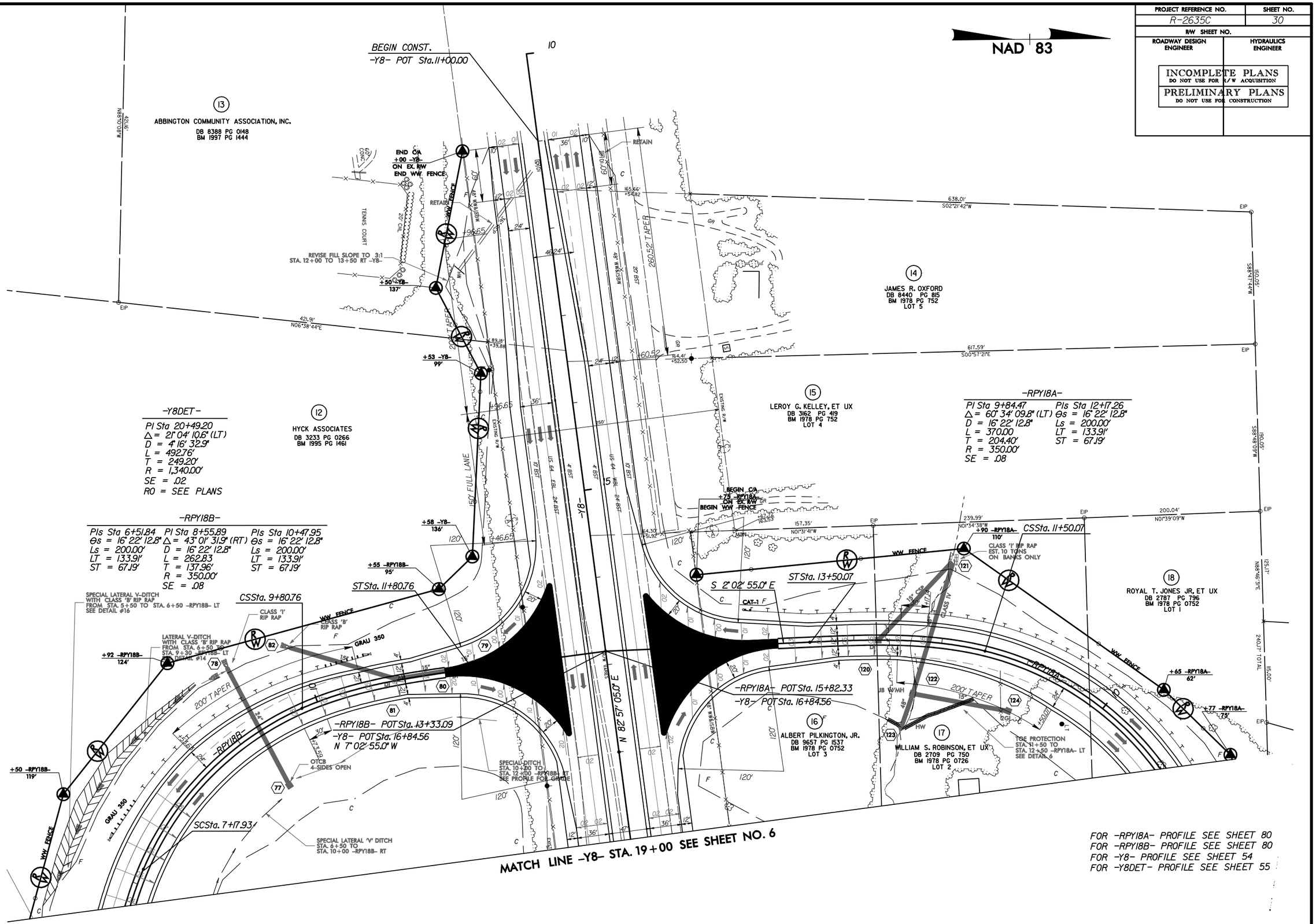
$$$$$$$$SYSTIME$$$$$$$$
$$$$$$$$USERNAME$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83



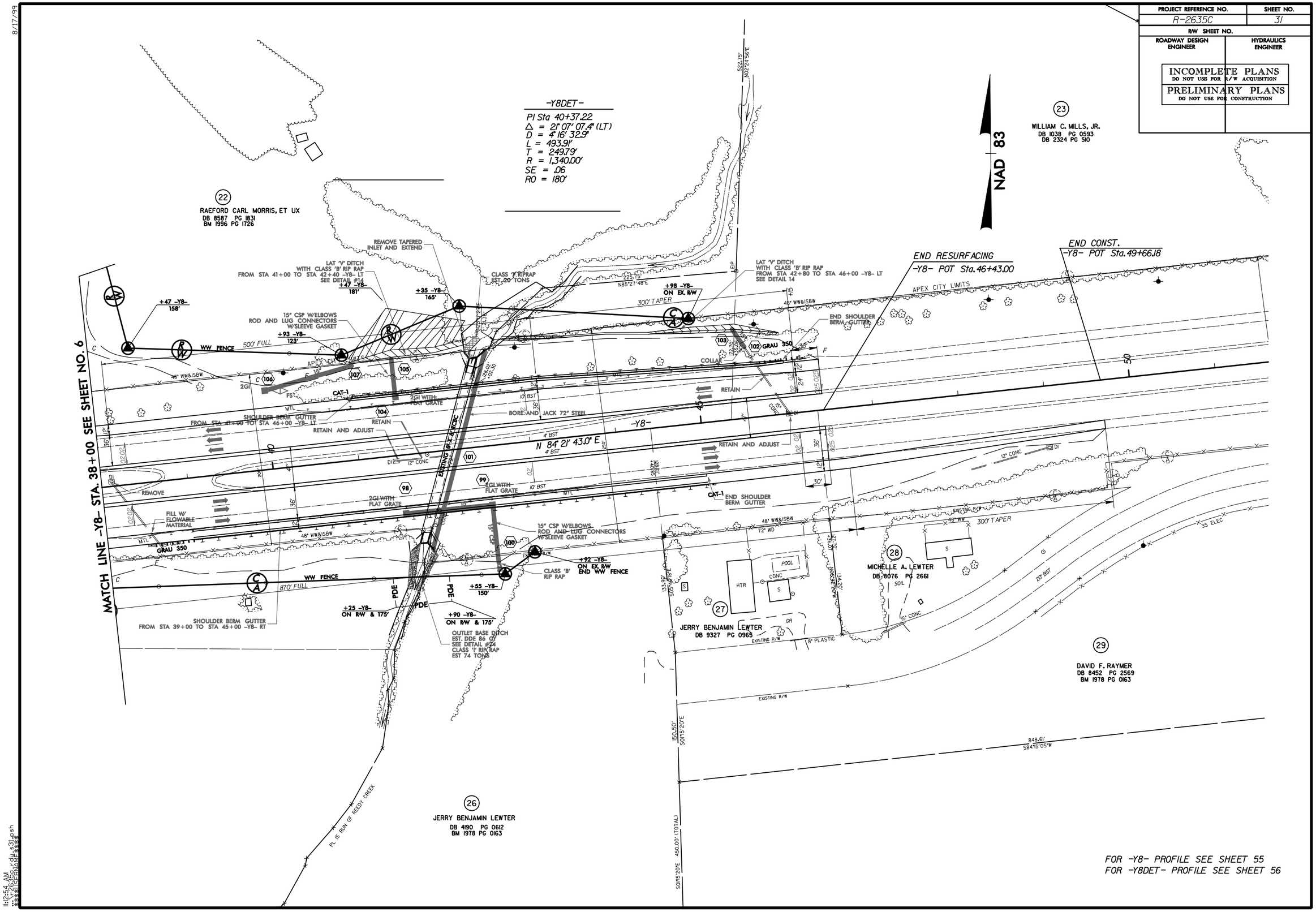
8/17/99

11:12:27 AM
\\r-2635c_rdu_s30.psh
$$$$$$$$$$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



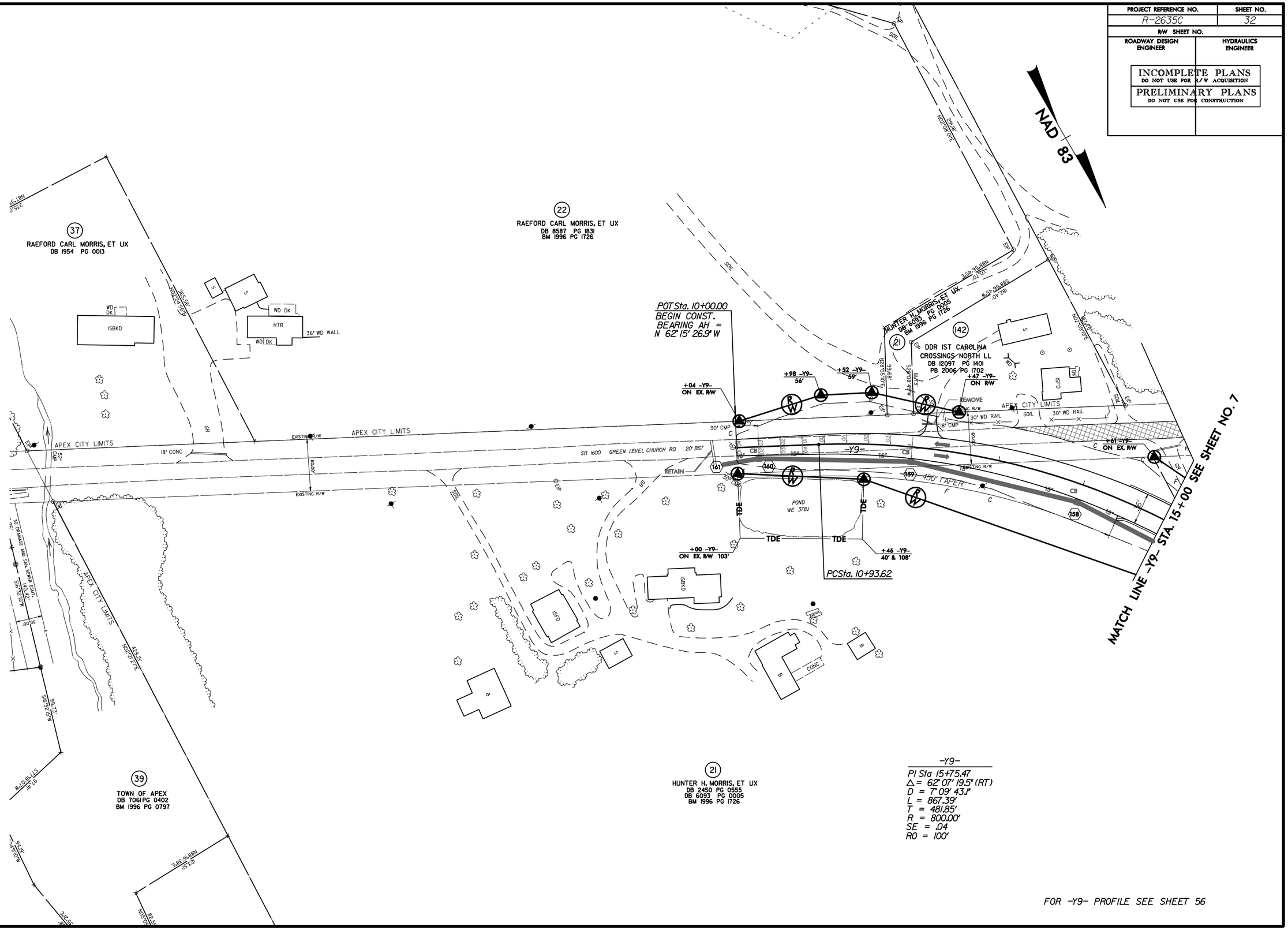
8/17/99

11:12:54 AM
R2635C_rdy_s31.psh
$$$$$$ENGINEERING$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y9-
PI Sta 15+75.47
Δ = 62° 07' 19.5" (RT)
D = 7° 09' 43.1"
L = 867.39'
T = 481.85'
R = 800.00'
SE = .04
RO = 100'

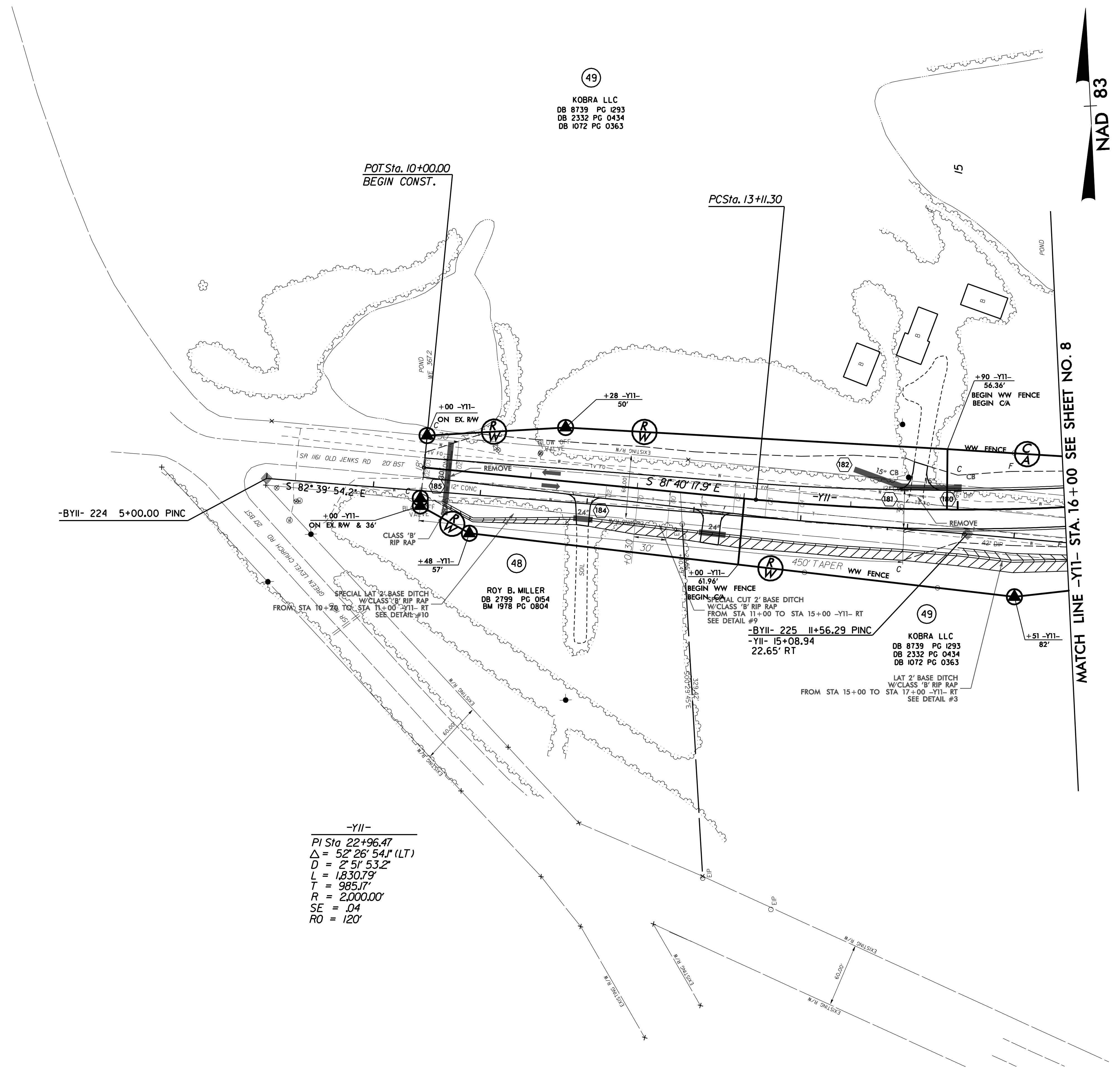
FOR -Y9- PROFILE SEE SHEET 56

8/17/99
11:32 AM
R-2635c_rdu_s32.psh

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	33
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

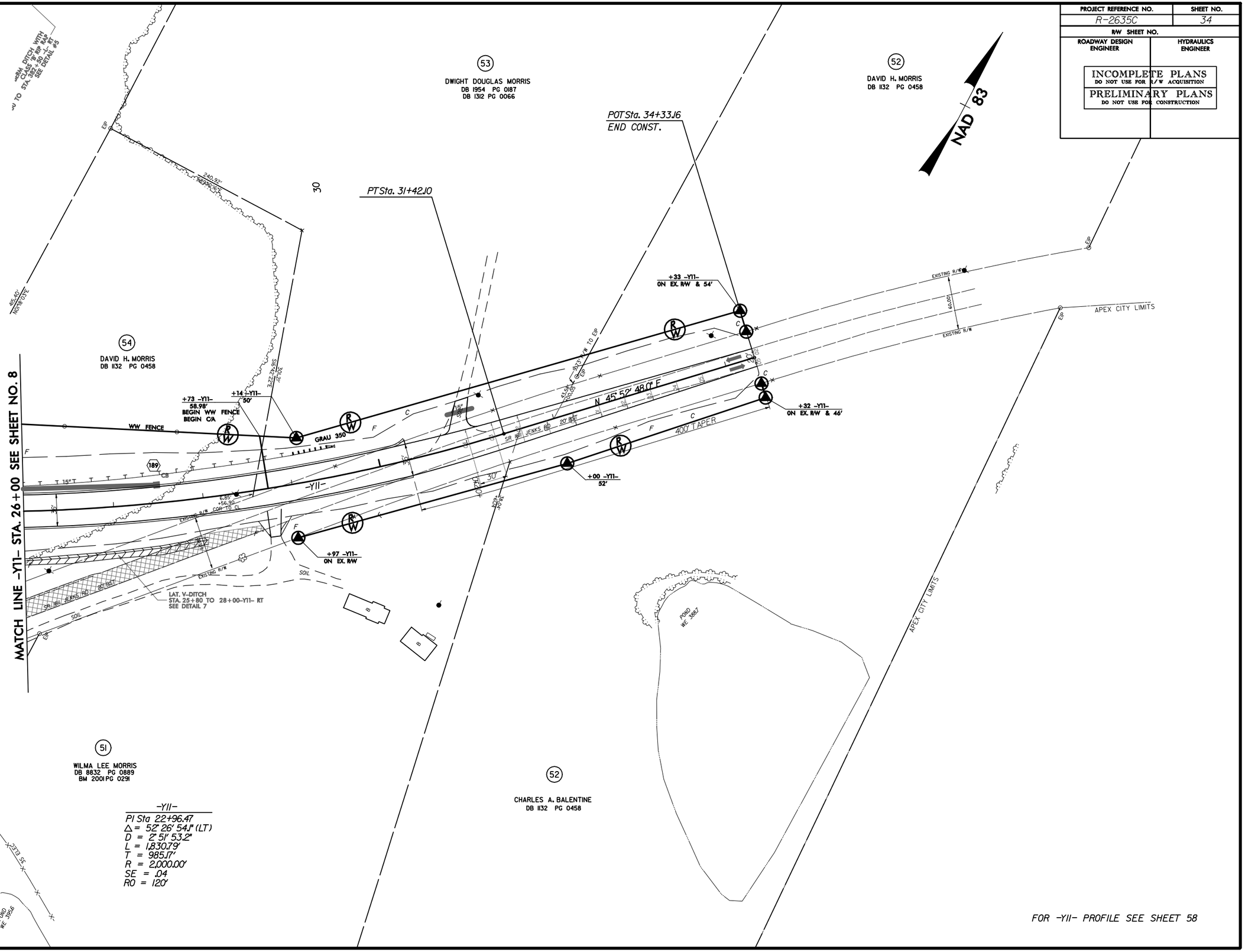


FOR -Y11- PROFILE SEE SHEET 57

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	34
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



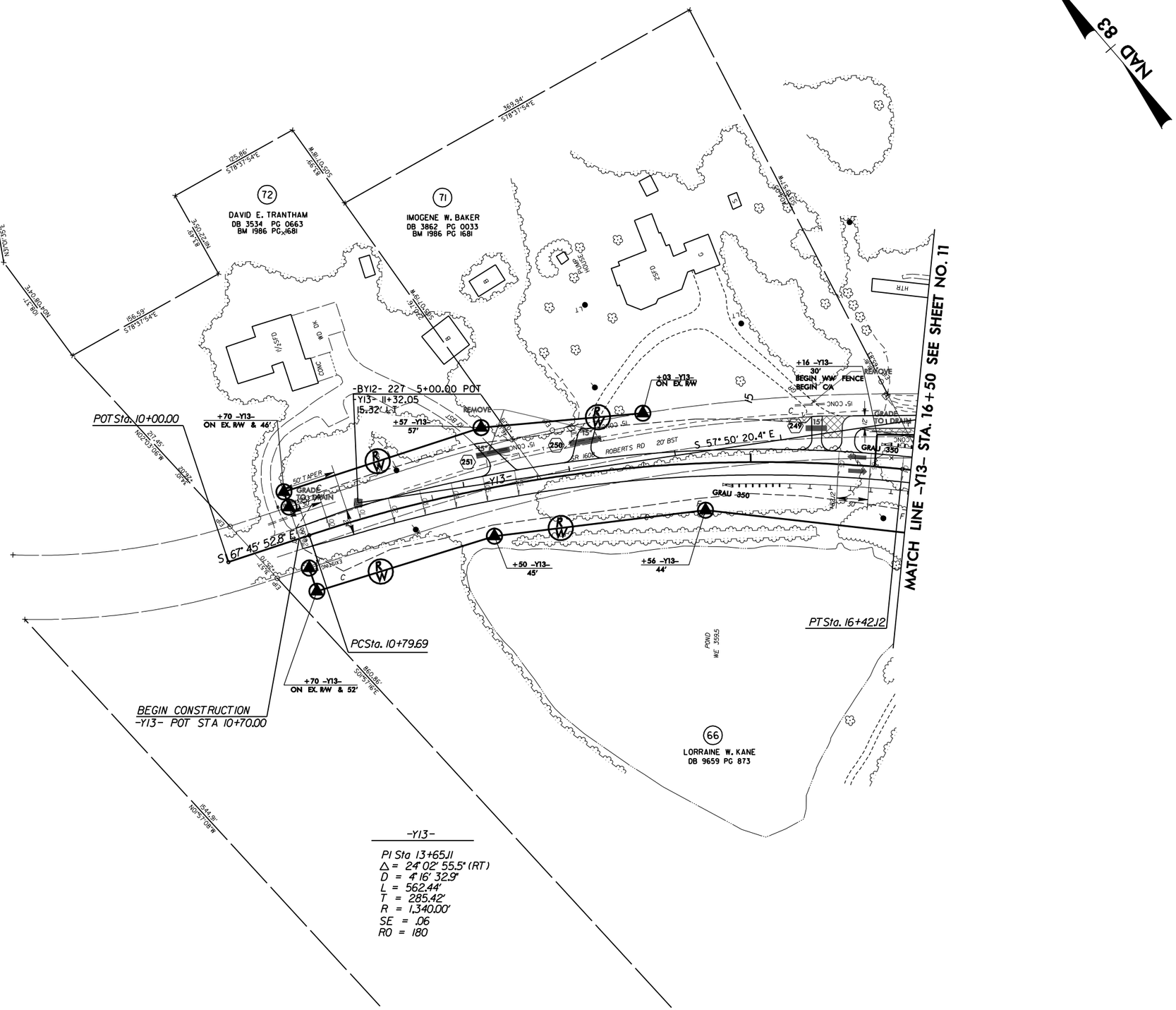
FOR -Y11- PROFILE SEE SHEET 58

8/17/99
11:43:31 AM
\\r2635c_rdu_s34.psh

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	35
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -Y13- PROFILE SEE SHEET 58

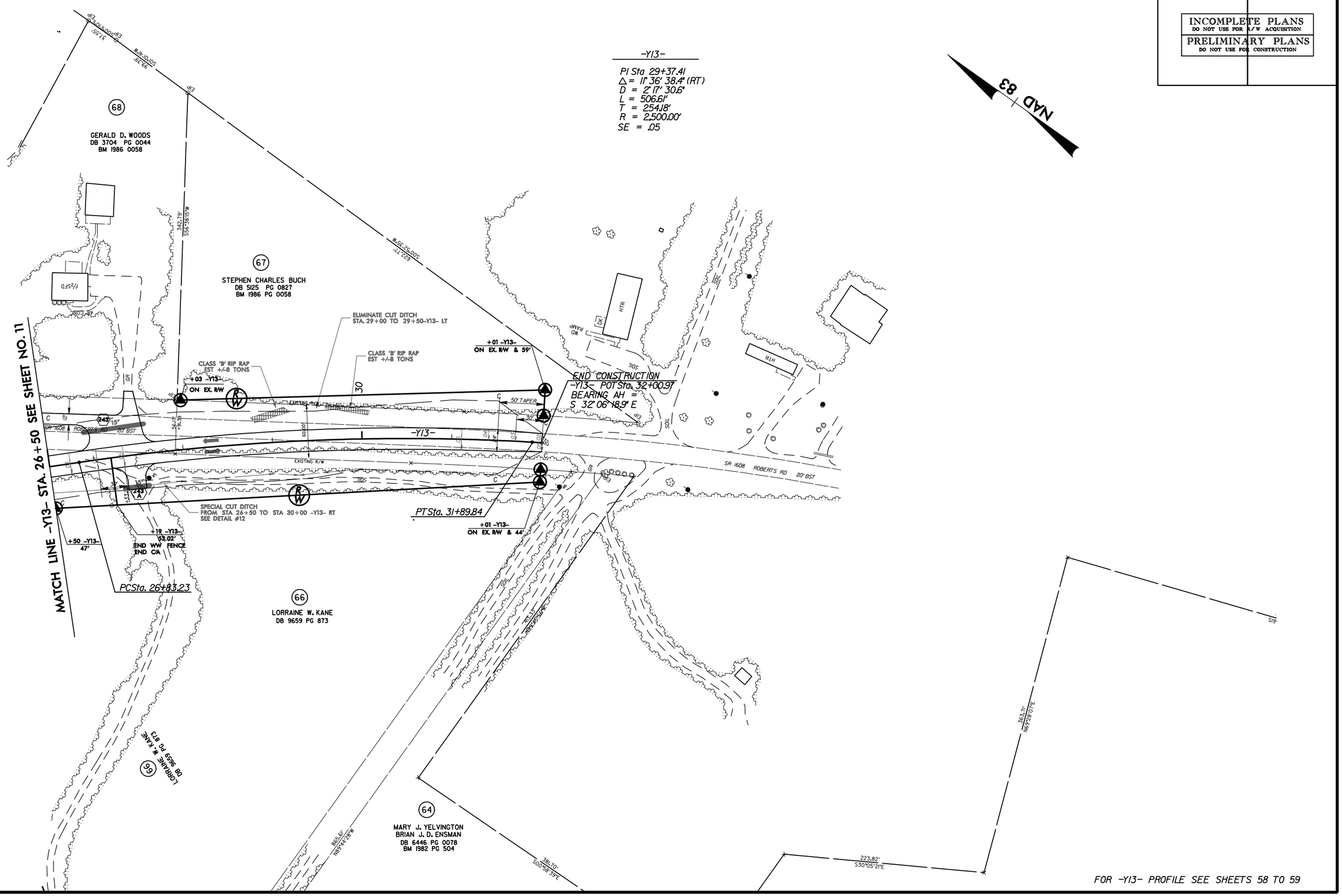
8/17/99

$$$$$$$SYSTIME$$$$$$$
$$$$$$$DGN$$$$$$$
$$$$$$$DLENAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	36
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



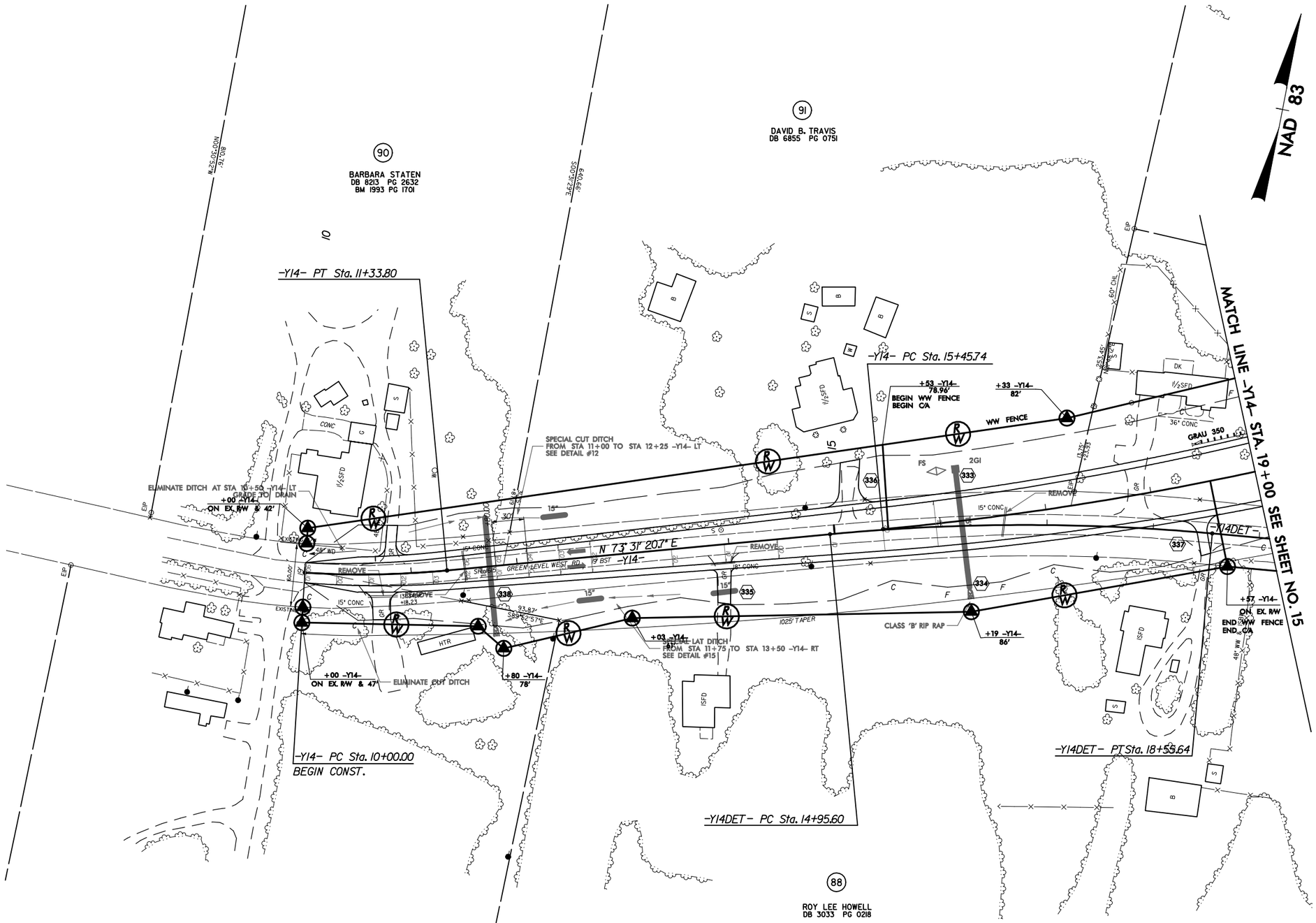
8/17/99

11:15:25 AM
R-2635C_rdu_s36.psh
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	37
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y14-

PI Sta 10+67.04	PI Sta 18+12.16
Δ = 8° 57' 59.2" (LT)	Δ = 10° 08' 58.8" (LT)
D = 6° 42' 04.5"	D = 1° 54' 35.5"
L = 133.80'	L = 531.44'
T = 67.04'	T = 266.41'
R = 855.00'	R = 3,000.00'
SE = SEE PLANS	SE = .03
RO = SEE PLANS	RO = 150'

-Y14DET-

PI Sta 16+76.13
Δ = 10° 34' 43.5" (RT)
D = 2° 56' 17.7"
L = 360.04'
T = 180.53'
R = 1,950.00'

FOR -Y14- PROFILE SEE SHEET 59
FOR -Y14DET- PROFILE SEE SHEET 61

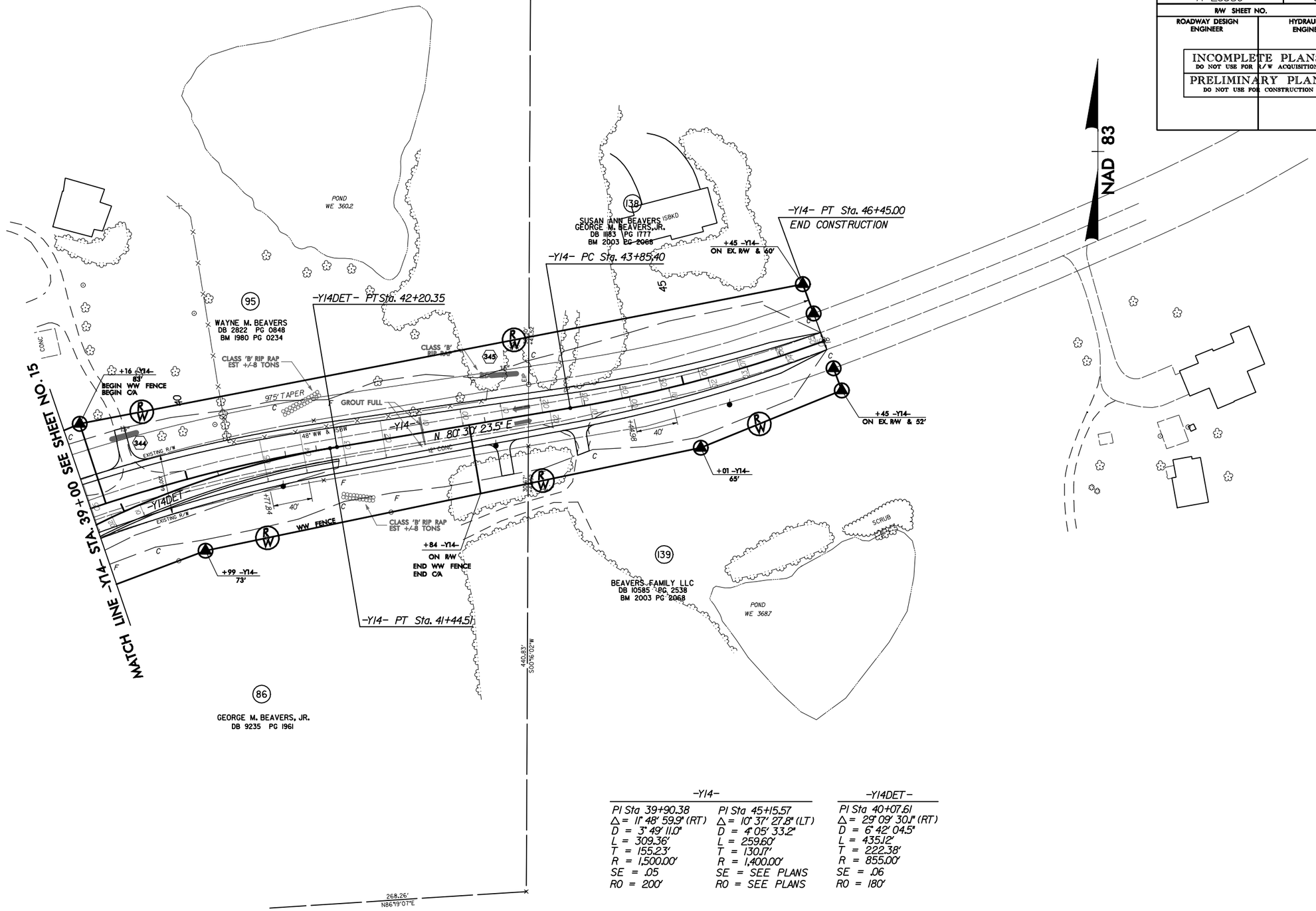
8/17/99

11:15:49 AM
R-2635C_rdy_s37.psh
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2635C	38
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y14-	
PI Sta 39+90.38	PI Sta 45+15.57
Δ = 11° 48' 59.9" (RT)	Δ = 10° 37' 27.8" (LT)
D = 3° 49' 11.0"	D = 4° 05' 33.2"
L = 309.36'	L = 259.60'
T = 155.23'	T = 130.17'
R = 1,500.00'	R = 1,400.00'
SE = .05	SE = SEE PLANS
RO = 200'	RO = SEE PLANS

-Y14DET-
PI Sta 40+07.61
Δ = 29° 09' 30.1" (RT)
D = 6° 42' 04.5"
L = 435.12'
T = 222.38'
R = 855.00'
SE = .06
RO = 180'

FOR -Y14- PROFILE SEE SHEET 60
FOR -Y14DET- PROFILE SEE SHEET 61

8/17/99
11:16:14 AM
R-2635c_rdu_s38.psh
USER NAME

8/17/99

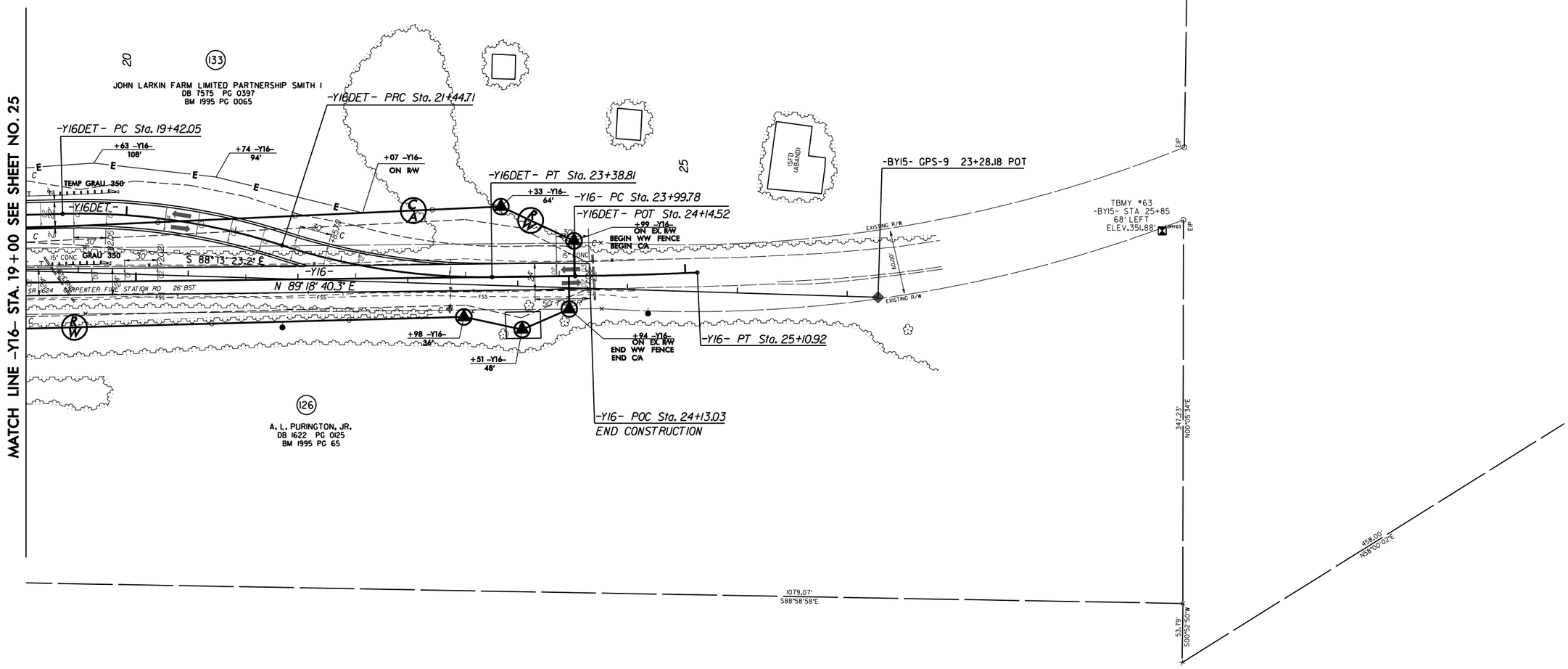
PROJECT REFERENCE NO.	SHEET NO.
R-2635C	39
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83

-Y16-	-Y16DET-	
PI Sta 24+55.36	PI Sta 20+44.36	PI Sta 22+42.61
Δ = 1° 55' 47.0" (LT)	Δ = 19° 21' 07.2" (RT)	Δ = 18° 32' 06.3" (LT)
D = 1° 44' 10.4"	D = 9° 32' 57.5"	D = 9° 32' 57.5"
L = 111.14'	L = 202.65'	L = 194.10'
T = 55.58'	T = 102.30'	T = 97.90'
R = 3,300.00'	R = 600.00'	R = 600.00'
SE = .02	SE = .04	SE = SEE PLANS
RO = 60'	RO = 120'	RO = SEE PLANS



FOR -Y16- PROFILE SEE SHEET 63
FOR -Y16DET- PROFILE SEE SHEET 64

$$$$USERNAME$$$$ $$$$SYSTIME$$$$ $$$$DGN$$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$