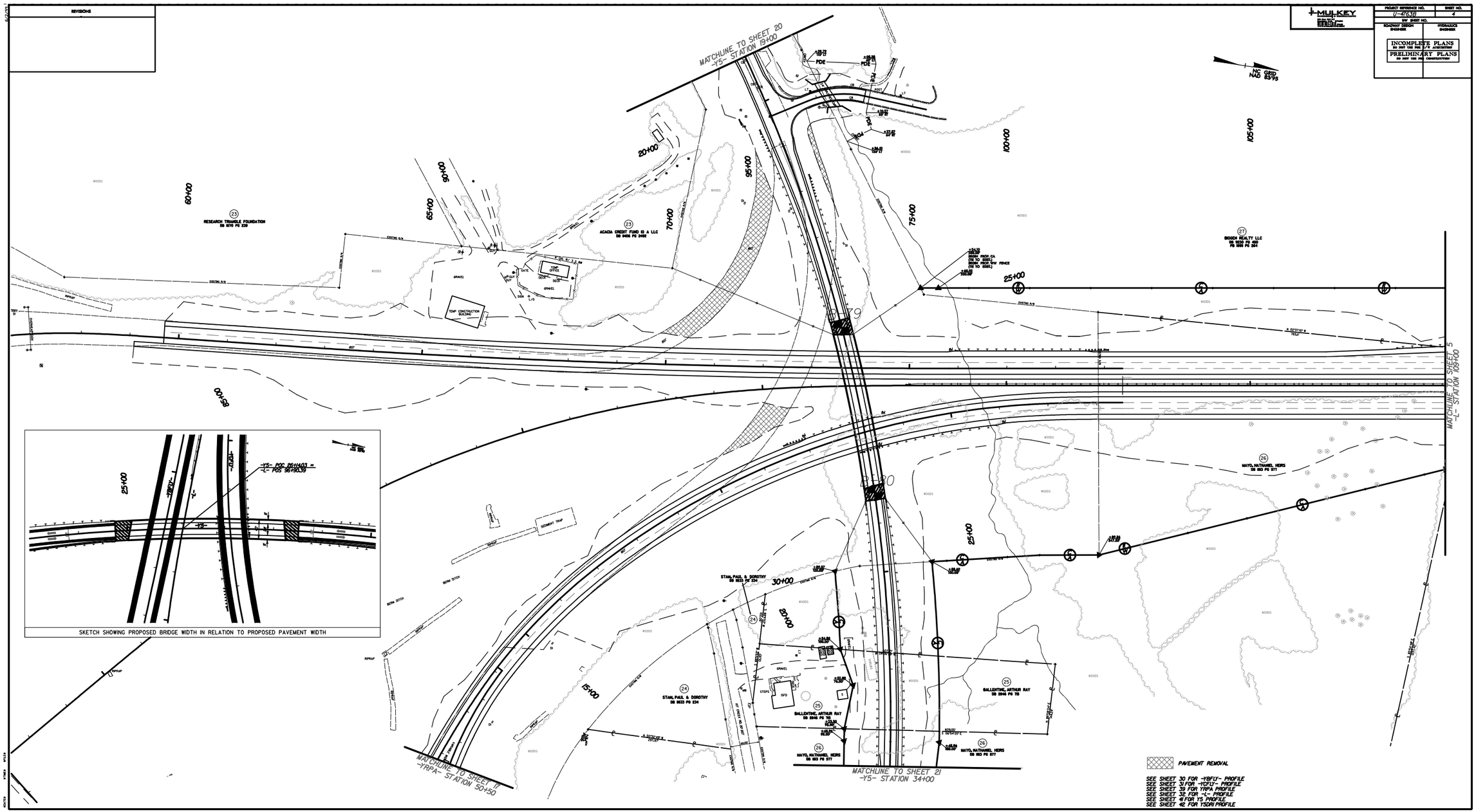
REVISIONS

MULKEY

PROJECT REFERENCE NO.	SHEET NO.
U-4758	4
R/W SHEET NO.	
ROADWAY DESIGN HYDRAULICS	HYDRAULICS

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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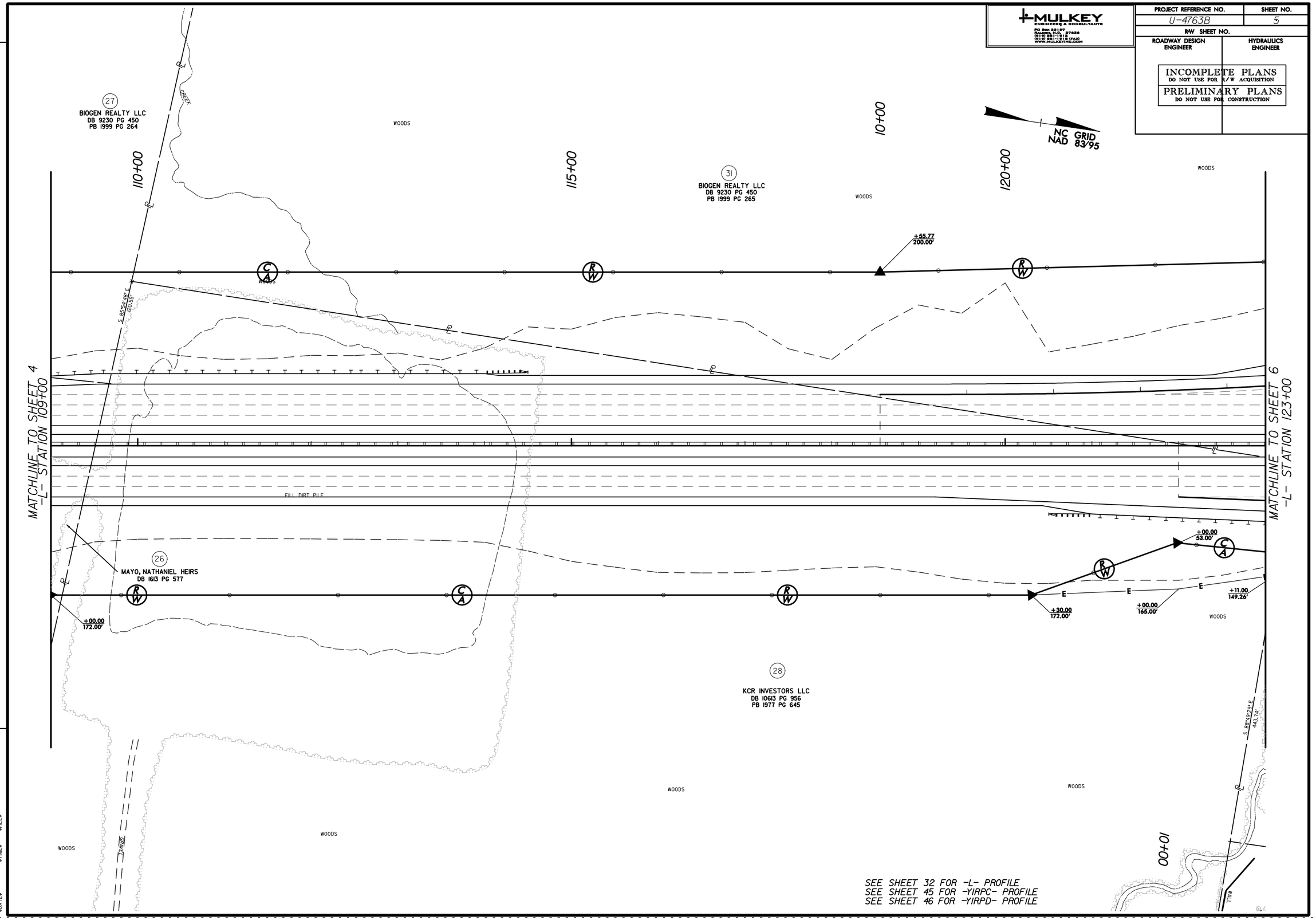
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS



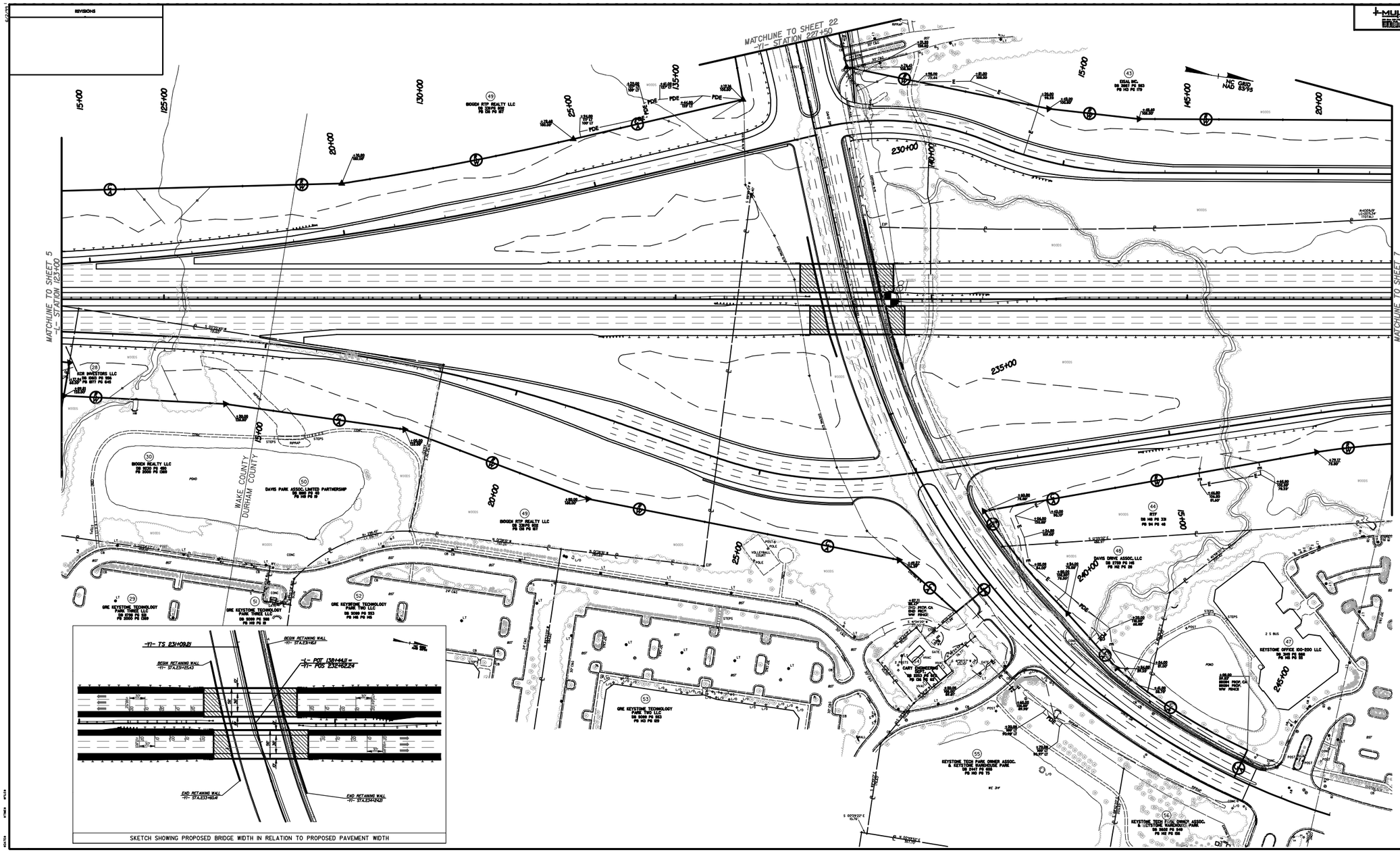
$DATE$ $TIME$ $FILE$

REVISIONS

MULKEY ENGINEERS & CONSULTANTS

PROJECT REFERENCE NO.	SHEET NO.
U-4758B	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



SEE SHEETS 32,33,& 34 FOR -L- PROFILE
SEE SHEET 43 FOR -Y/- PROFILE
SEE SHEET 45 FOR -TRPC- PROFILE
SEE SHEET 46 FOR -TRPD- PROFILE
SEE SHEET 47 FOR -SR 1- PROFILE
SEE SHEET 48 FOR -SR 2- PROFILE

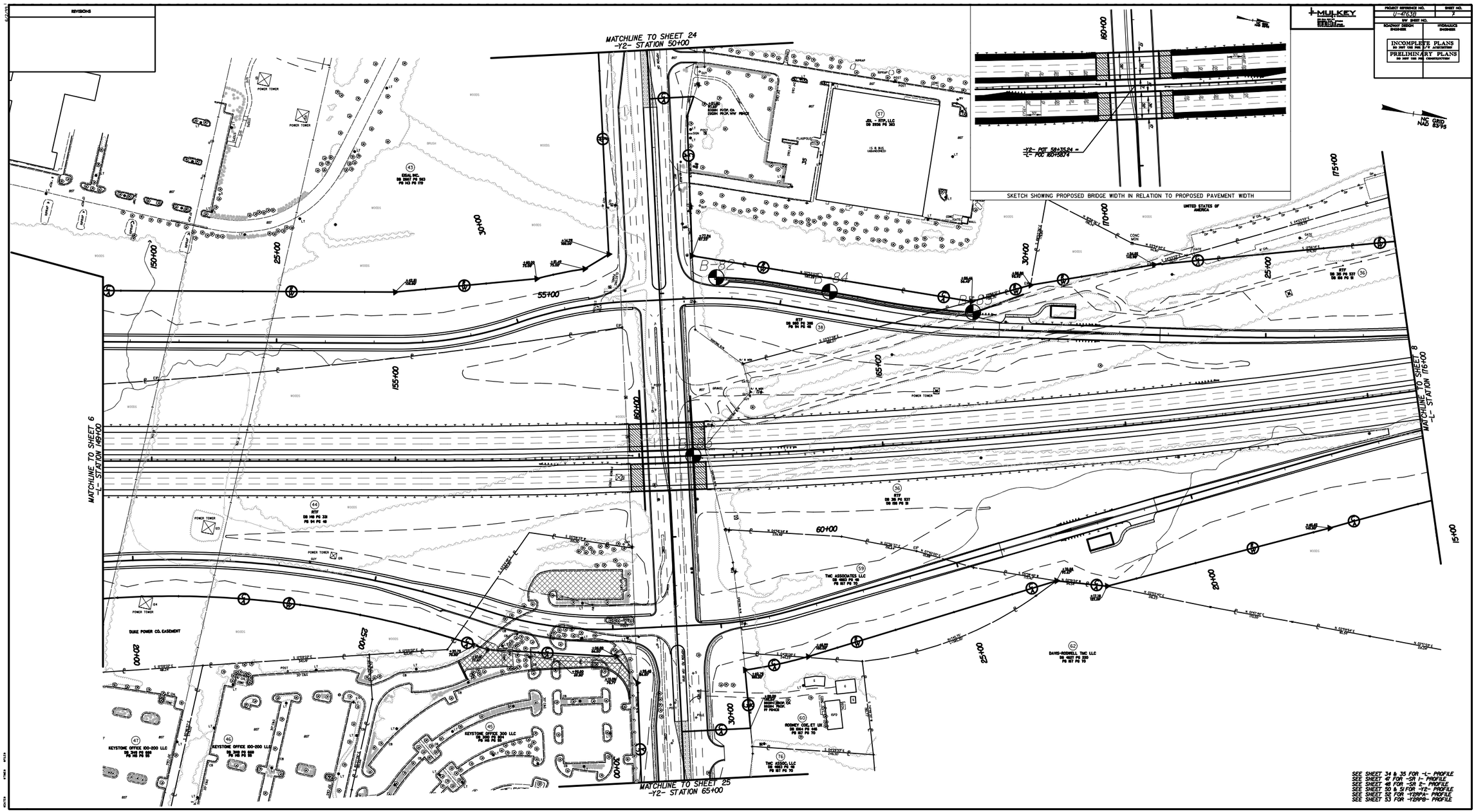
REVISIONS

MULKEY

PROJECT REFERENCE NO.	SHEET NO.
U-4758B	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



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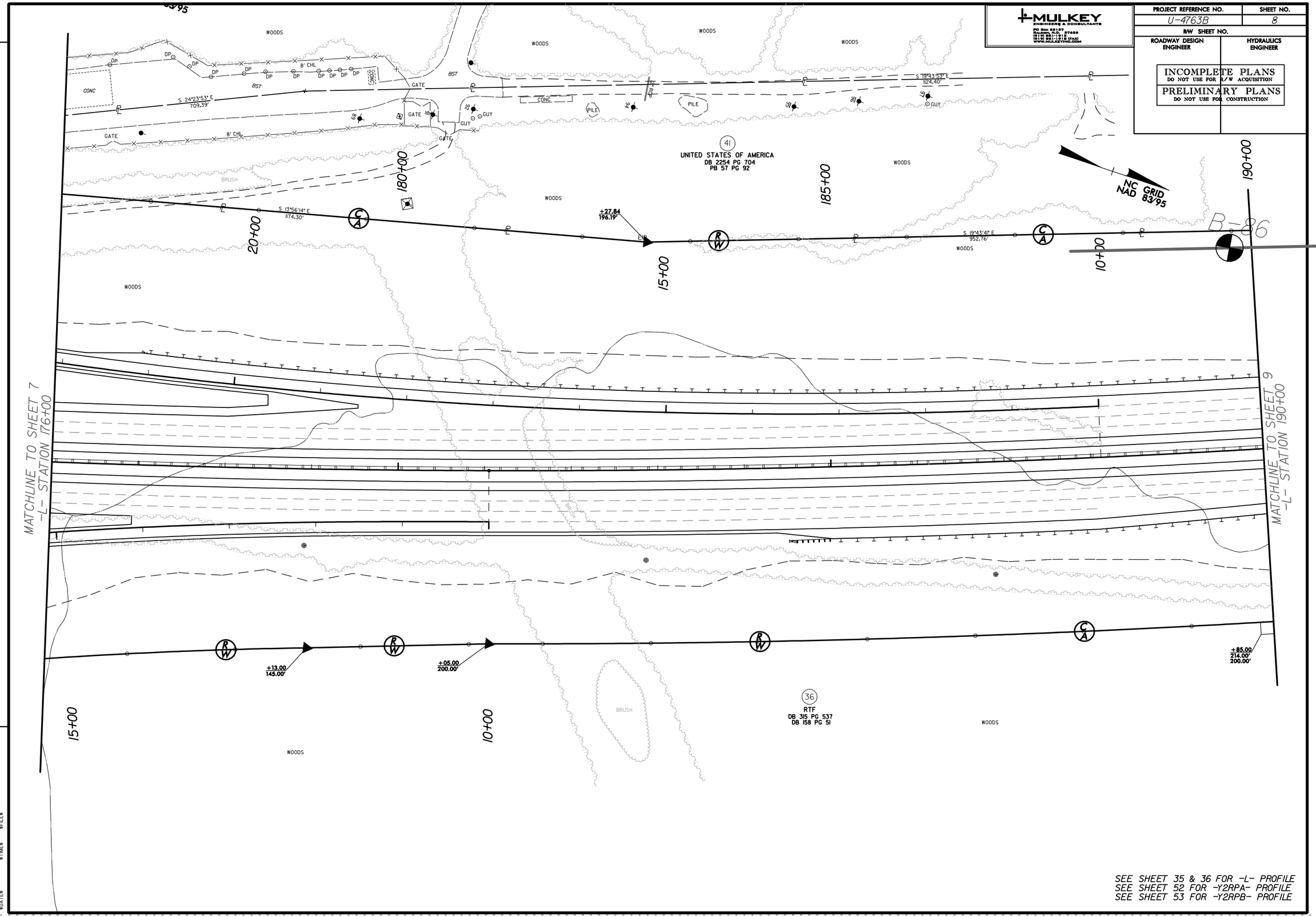
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 35 & 36 FOR -L- PROFILE
SEE SHEET 52 FOR -Y2RPA- PROFILE
SEE SHEET 53 FOR -Y2RPB- PROFILE

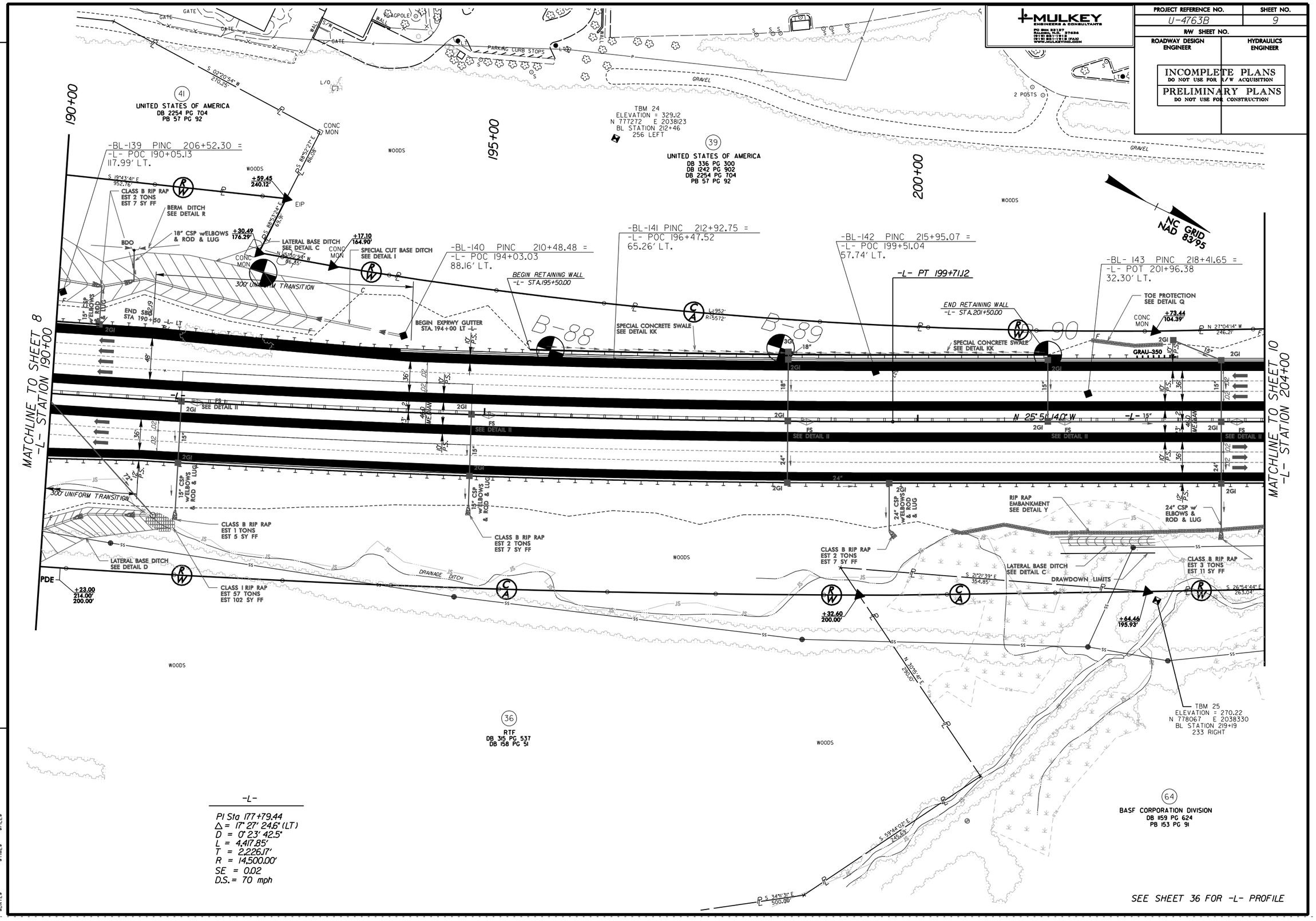
REVISIONS

$DATE$ $TIME$ $FILE$

PROJECT REFERENCE NO.	SHEET NO.
U-4763B	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



REVISIONS

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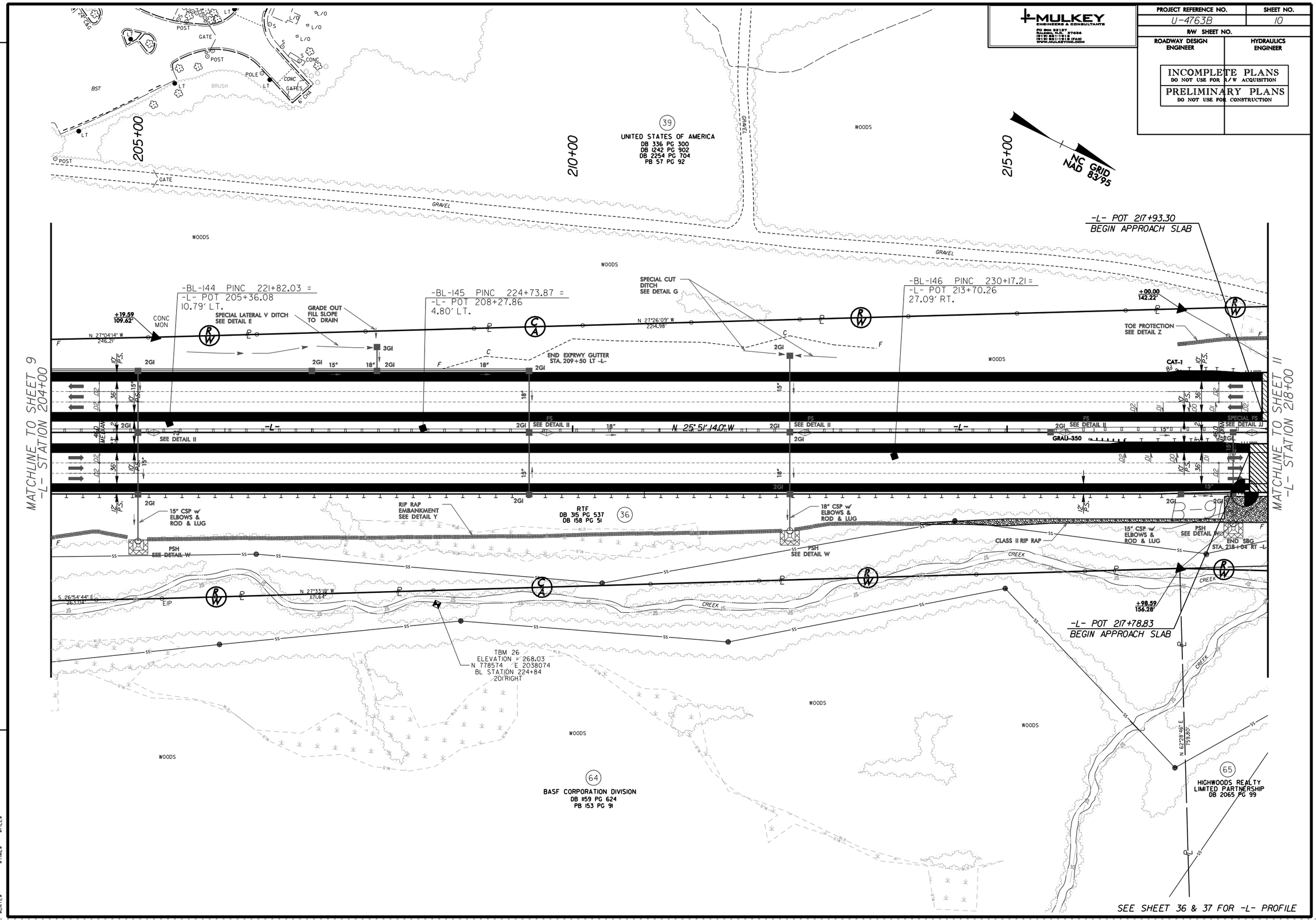
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS



$DATE$ $TIME$ $FILE$

PROJECT REFERENCE NO.	SHEET NO.
U-4763B	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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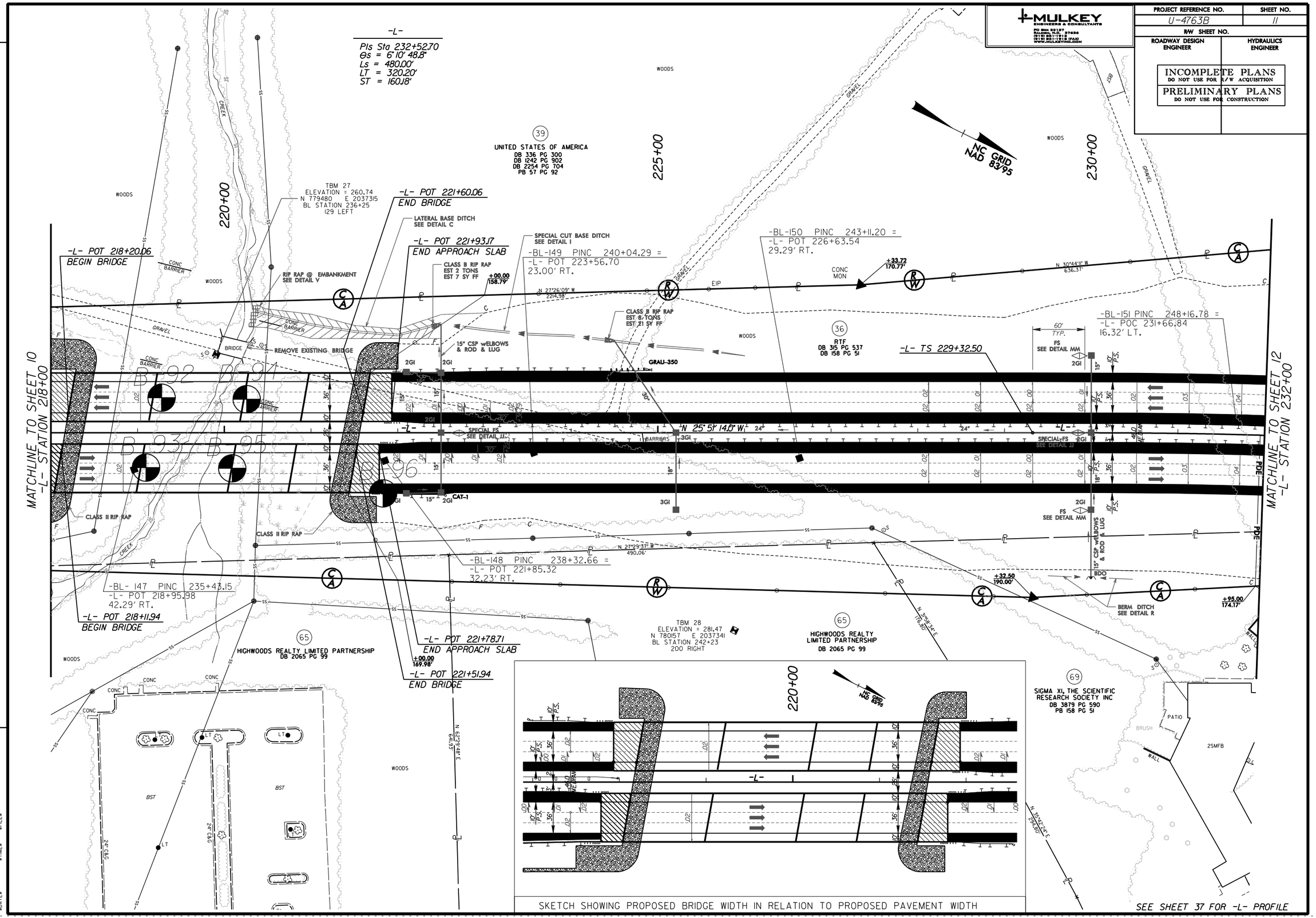
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SKETCH SHOWING PROPOSED BRIDGE WIDTH IN RELATION TO PROPOSED PAVEMENT WIDTH

REVISIONS

$DATE$ $TIME$ $FILE$

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PROJECT REFERENCE NO.	SHEET NO.
U-4763B	12
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

NC GRID NAD 83/95

REVISIONS

$DATE$ $TIME$ $FILE$

39 UNITED STATES OF AMERICA
DB 336 PG 300
DB 1242 PG 902
DB 2254 PG 704
PB 57 PG 92

36 RTF
DB 315 PG 537
DB 158 PG 51

RESEARCH TRIANGLE FOUNDATION OF NC
DB 315 PG 537
PB 52 PG 71

73 RESEARCH TRIANGLE FOUNDATION OF NC
DB 2254 PG 709

71 RESEARCH TRIANGLE FOUNDATION OF NC
DB 1044 PG 201
PB 98 PG 56

72 RESEARCH TRIANGLE FOUNDATION OF NC
DB 315 PG 537
PB 52 PG 71

69 SIGMA XI, THE SCIENTIFIC RESEARCH SOCIETY INC
DB 3879 PG 590
PB 158 PG 51

75 TRIANGLE SERVICE CENTER, INC.
DB 317 PG 184
PB 53 PG 1

78 TRIANGLE SERVICE CENTER, INC.
DB 1246 PG 110
PB 28 PG 60

MATCHLINE TO SHEET 11 -L- STATION 232+00

MATCHLINE TO SHEET 28 -L- STATION 20+00

MATCHLINE TO SHEET 13 -L- STATION 245+50

B-97 B-98 B-99 B-100 B-101 B-102 B-103

235+00 240+00 245+00 25+00 10+00

+48.85 236.97'
+74.39 200.00'
+41.94 259' LT
+74.92 259' LT
+68.36 200' LT
+12.37 200.00'
+00.00 150.00'
+00.00 175.00'
+16.00 198.00' 184.00'
+12.50 150.00'
+43.00 159.42'
+50.00 204.00'
+68.47 189.12'
END PROP. CA
END PROP. WW FENCE
+32.00 76.91'
+32.00 138.00'
+54.00 192.00'
+15.00 206.00'
+09.86 205.48'
+15.13 217.89'
+65.00 74.91'

N 30°44'11" W 147.38'
N 89°37'49" E 44.16'
N 50°38'9" E 40.05'
N 39°37'49" E 40.16'
N 23°47'10" W 9.28'
N 01°49'20" E 75.85'
N 03°26'34" W 15.21'
N 30°21'05" E 87.76'
S 59°43'38" E 626.03'

PDE
CA
RW
EXISTING R/W
WOODS
BRUSH
DENSE VEGETATION
CONC
BST
POST
GUARD RAIL
GUY
GATE
STEPS
4' WOVEN WIRE
-Y3DET-
MC 54 60' BST
JOINING TOM. S.P. EASEMENT PB 98 PG 56

-Y4RPD- SC 11+92.00

-L- POS 242+45.55 =
-Y3- POT 23+07.33

-Y3- POT 22+51.87 =
-L- POC 242+71.91

-Y3-
-Y4RPD-
7.5'
79'
64'
20
20
3.2' TO FACE

SKETCH SHOWING PROPOSED BRIDGE WIDTH IN RELATION TO PROPOSED PAVEMENT WIDTH

SEE SHEET 37 & 38 FOR -L- PROFILE
SEE SHEET 54 FOR -Y3- PROFILE
SEE SHEET 54 & 55 FOR -Y4RPC- PROFILE
SEE SHEET 55 FOR -Y4RPD- PROFILE
SEE SHEETS 2-DET1 & 2-DET2 FOR -Y3DET- PLAN/PROFILE

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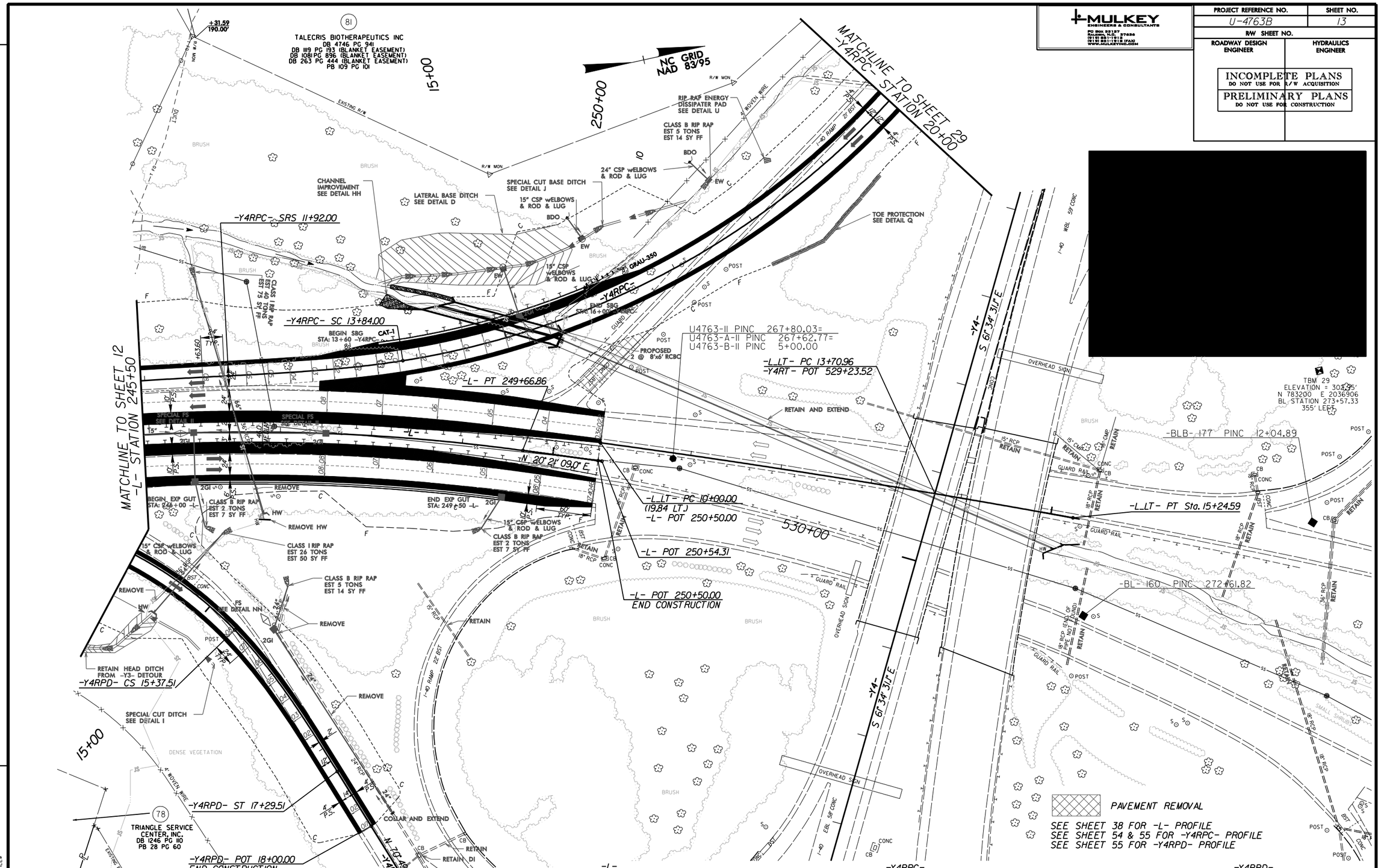
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS

$DATE$ $TIME$ $FILE$



[redacted]

-L-

PI Sta 242+22.91
Δ = 40° 01' 34.2" (RT)
D = 2° 34' 30.3"
L = 1,554.36
T = 810.41'
R = 2,225.00'
SE = 0.08
D.S. = 75 mph

-Y4RPC-

PIs Sta 10+64.01
θs = 2° 24' 29.6"
Ls = 192.00'
LT = 128.01'
ST = 64.01'

PIs Sta 13+20.07
θs = 5° 58' 22.2"
Ls = 192.00'
LT = 128.07'
ST = 64.07'

PI Sta 18+65.50
Δ = 55° 12' 22.7" (LT)
D = 6° 13' 18.2"
L = 887.32'
T = 481.50'
R = 920.90'
SE = 0.08
D.S. = 50 mph

PIs Sta 23+35.38
θs = 5° 58' 22.2"
Ls = 192.00'
LT = 128.07'
ST = 64.07'

-Y4RPD-

PI Sta 13+74.04
Δ = 44° 35' 12.3" (RT)
D = 12° 54' 16.0"
L = 345.51
T = 182.04'
R = 444.00'
SE = 0.08
D.S. = 40 mph

PIs Sta 16+01.80
θs = 12° 23' 17.8"
Ls = 192.00'
LT = 128.31'
ST = 64.29'

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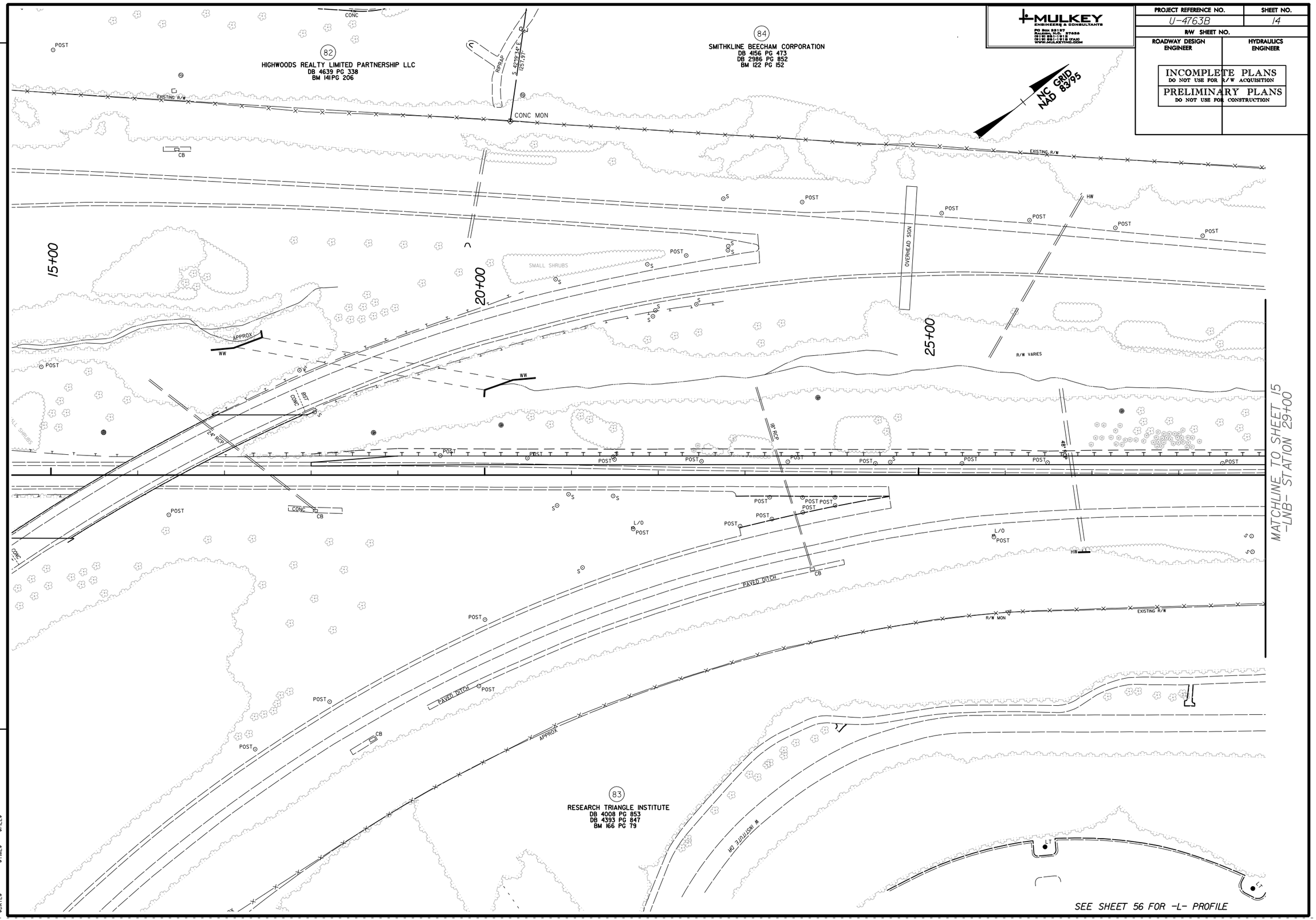
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

$DATE$ $TIME$ $FILE$

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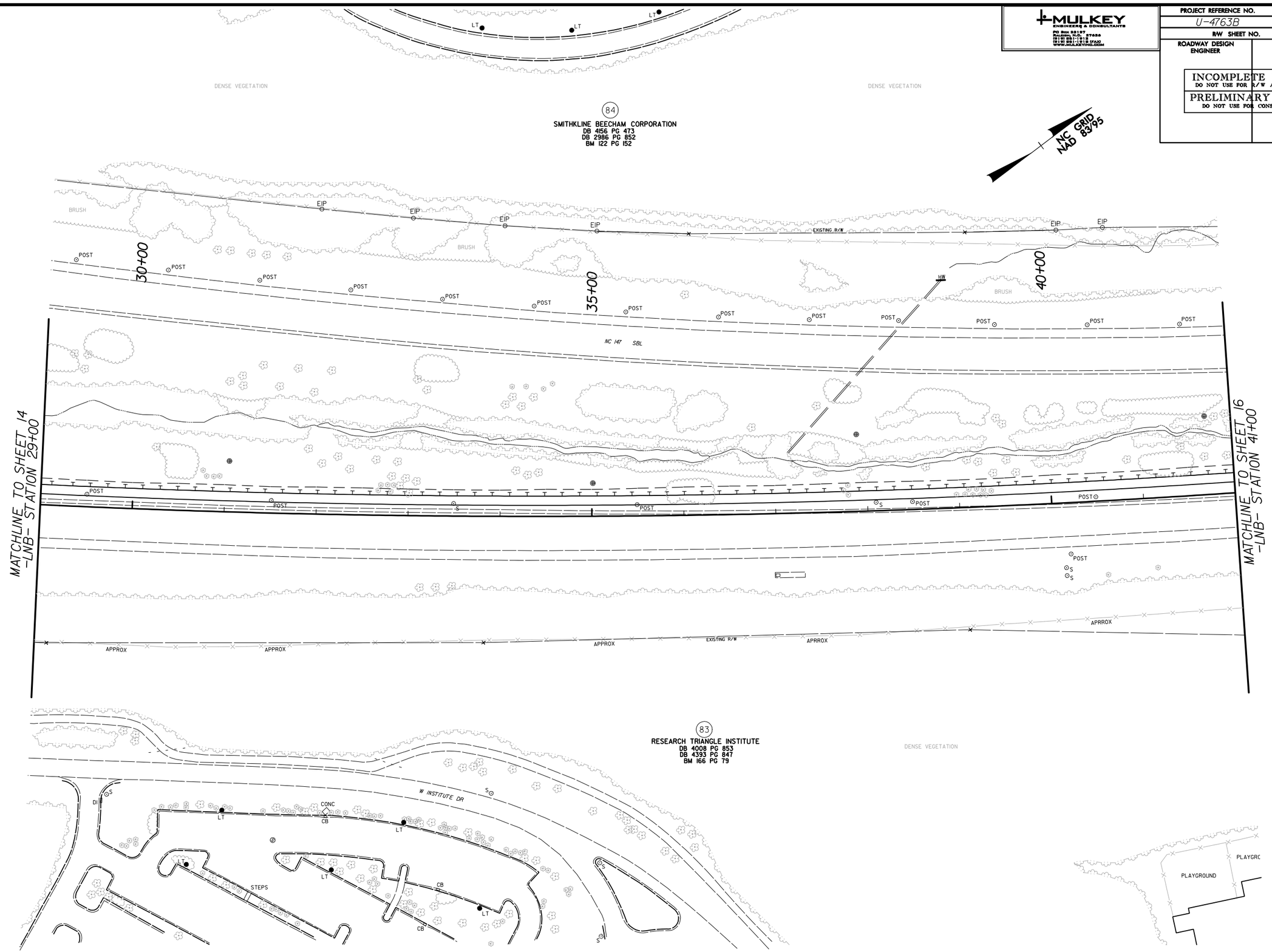
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEETS 56 & 57 FOR -LNB- PROFILE

REVISIONS

$DATE$ $TIME$ $FILE$

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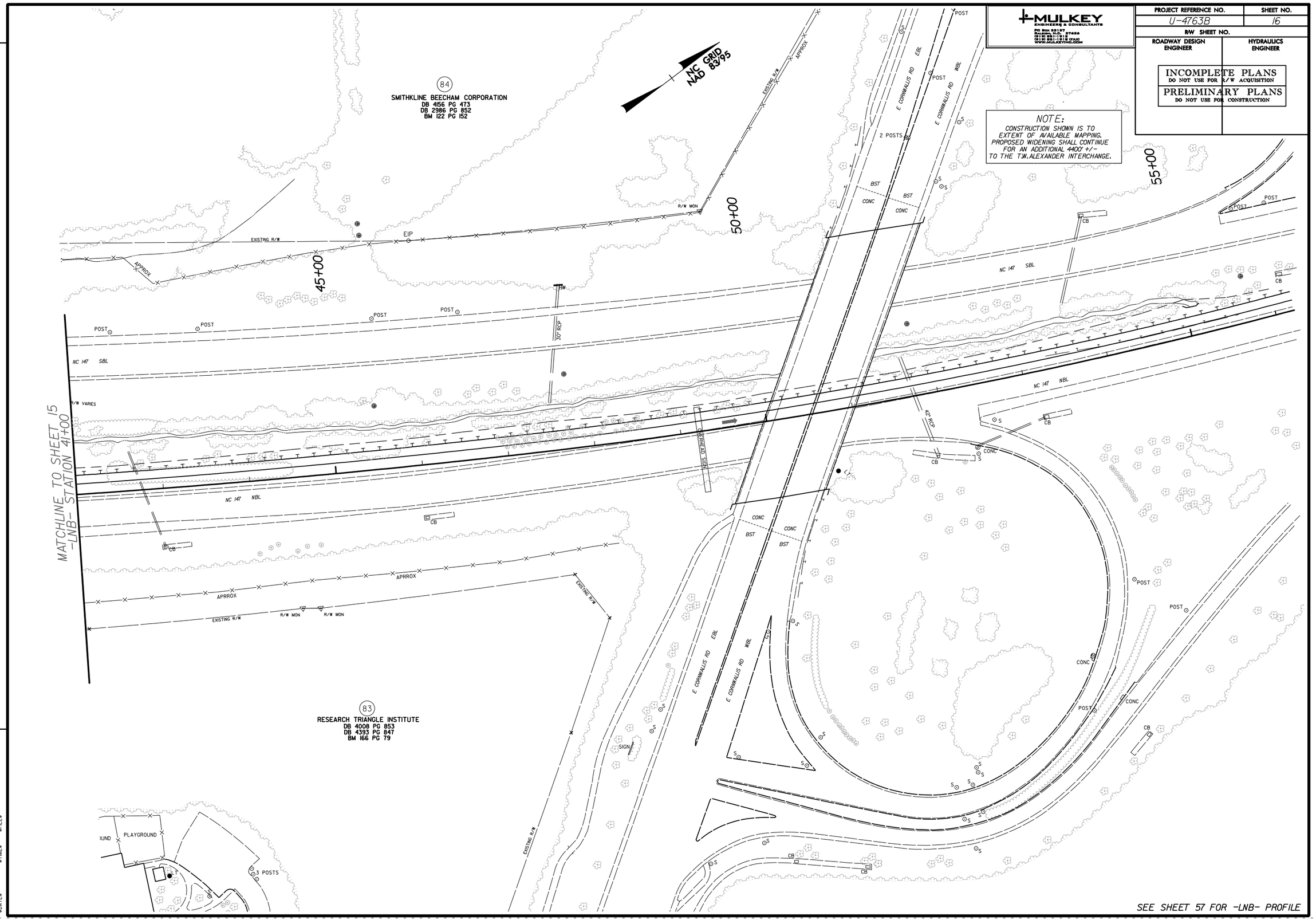
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

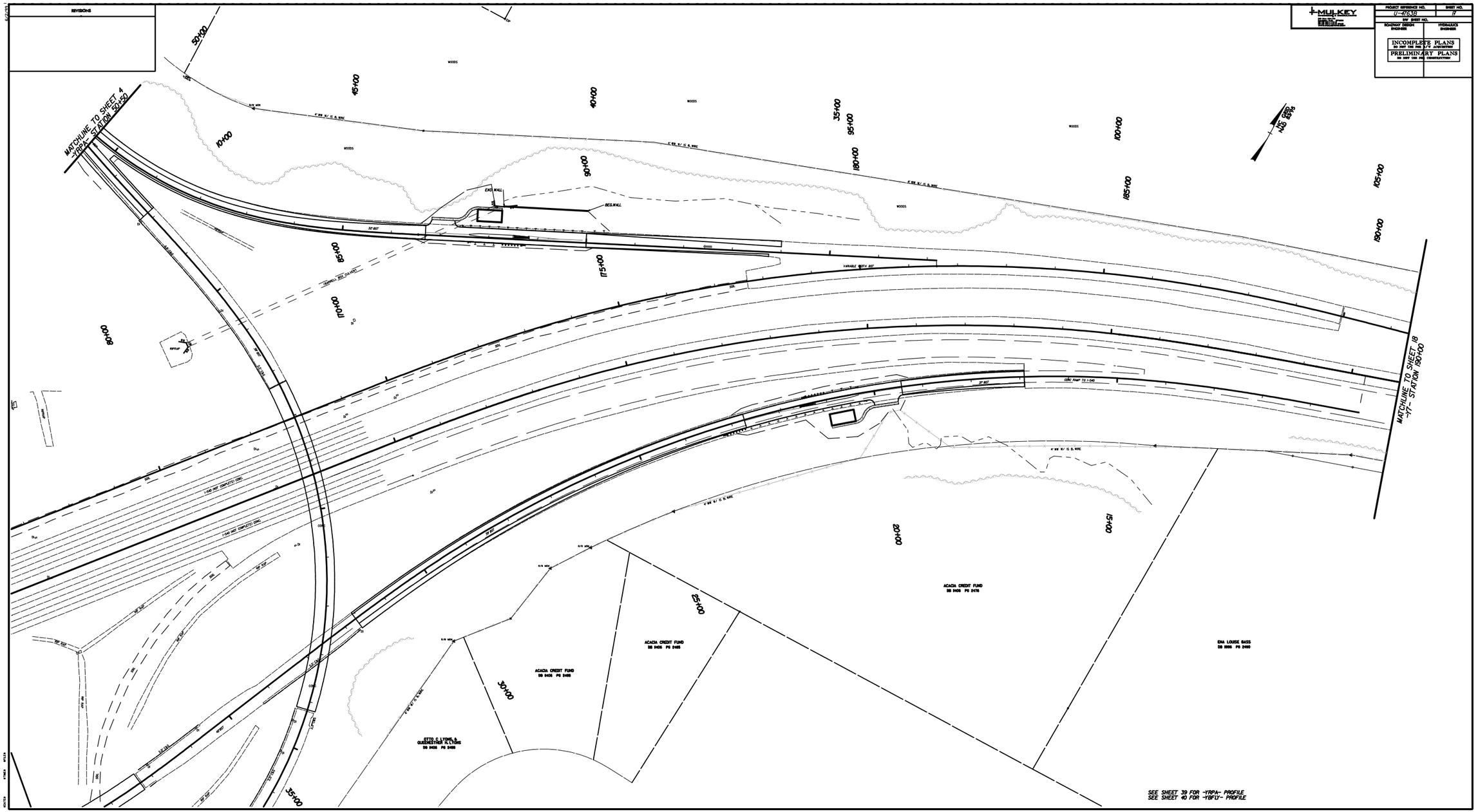
NOTE:
CONSTRUCTION SHOWN IS TO EXTENT OF AVAILABLE MAPPING. PROPOSED WIDENING SHALL CONTINUE FOR AN ADDITIONAL 4400' +/- TO THE T.W. ALEXANDER INTERCHANGE.



SEE SHEET 57 FOR -LNB- PROFILE

REVISIONS

$DATE$ $TIME$ $FILE$


REVISIONS
MULKEY
PROJECT REFERENCE NO.
U-4758B
SHEET NO.
17
R/W SHEET NO.
ROADWAY DESIGN
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
MATCHLINE TO SHEET 4
-YRPA- STATION 50+50
MATCHLINE TO SHEET 18
-YT- STATION 150+00
N15°59'59"W
50+00
45+00
40+00
35+00
95+00
100+00
105+00
150+00
10+00
90+00
85+00
75+00
70+00
60+00
20+00
15+00
25+00
30+00
35+00
WOODS
END WALL
BEG.WALL
VARIABLE WIDTH BST
CONC RAMP TO I-540
I-540 INC COMPUTED CONC
ACACIA CREDIT FUND
DB 9406 PG 2478
ACACIA CREDIT FUND
DB 9406 PG 2485
ACACIA CREDIT FUND
DB 9406 PG 2499
OTTO C LYONS &
GARDENTHER N LYONS
DB 9406 PG 2499
ENA LOUISE BASS
DB 9996 PG 2490
SEE SHEET 39 FOR -YRPA- PROFILE
SEE SHEET 40 FOR -YBFU- PROFILE

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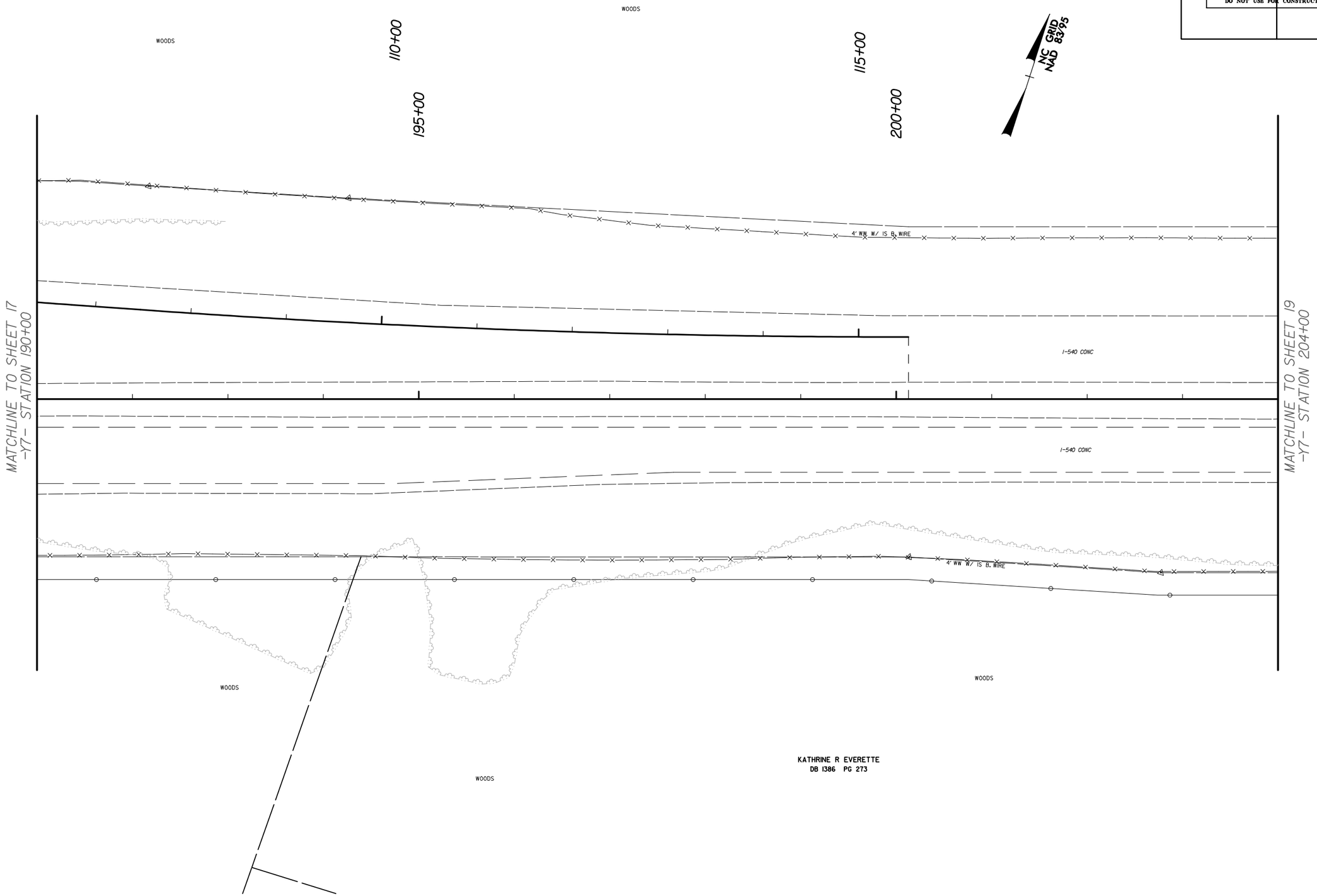
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS



$DATE$ $TIME$ $FILE$

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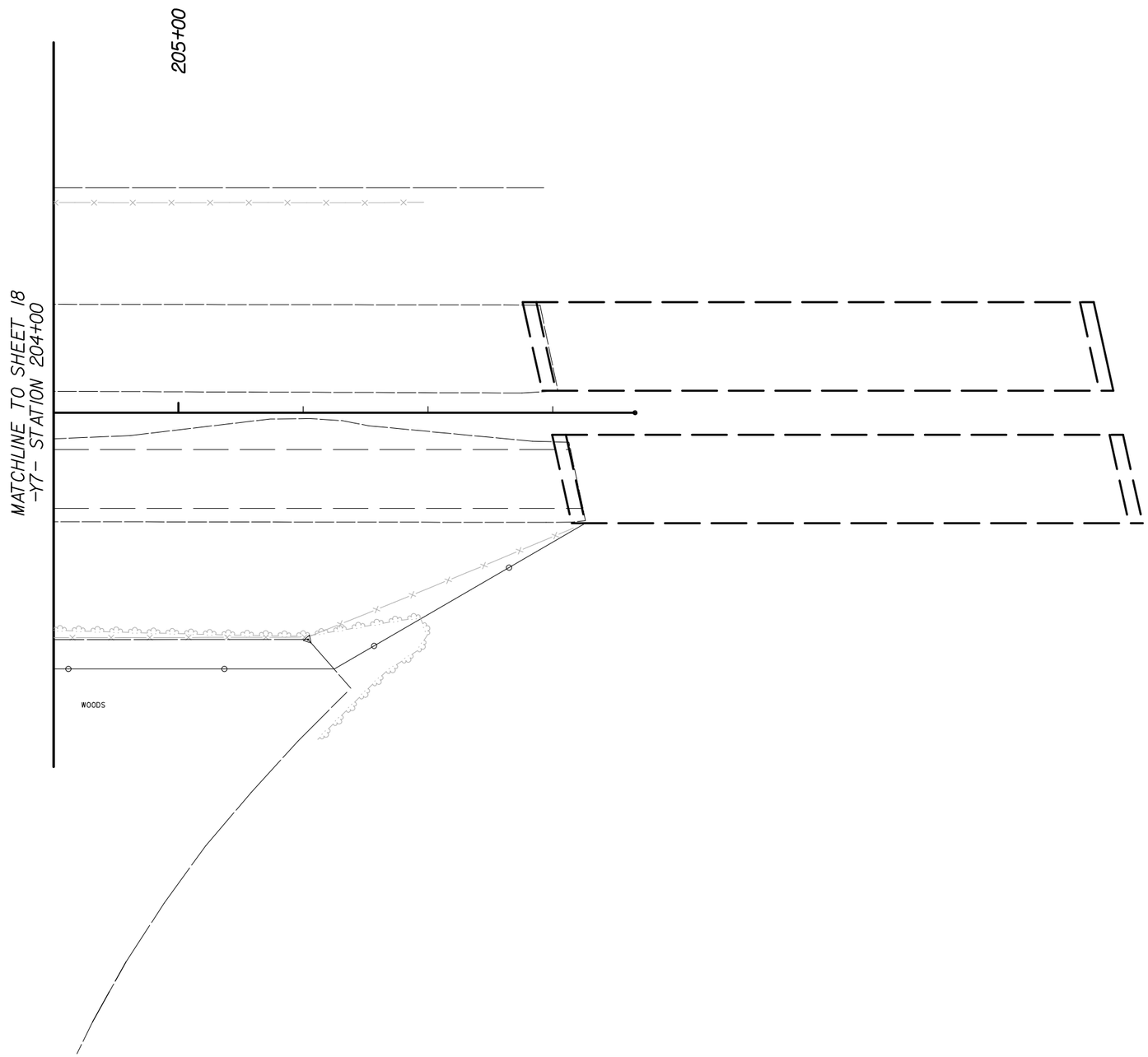
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NC GRID
NAD 83/95



REVISIONS

$DATE$ $TIME$ $FILE$

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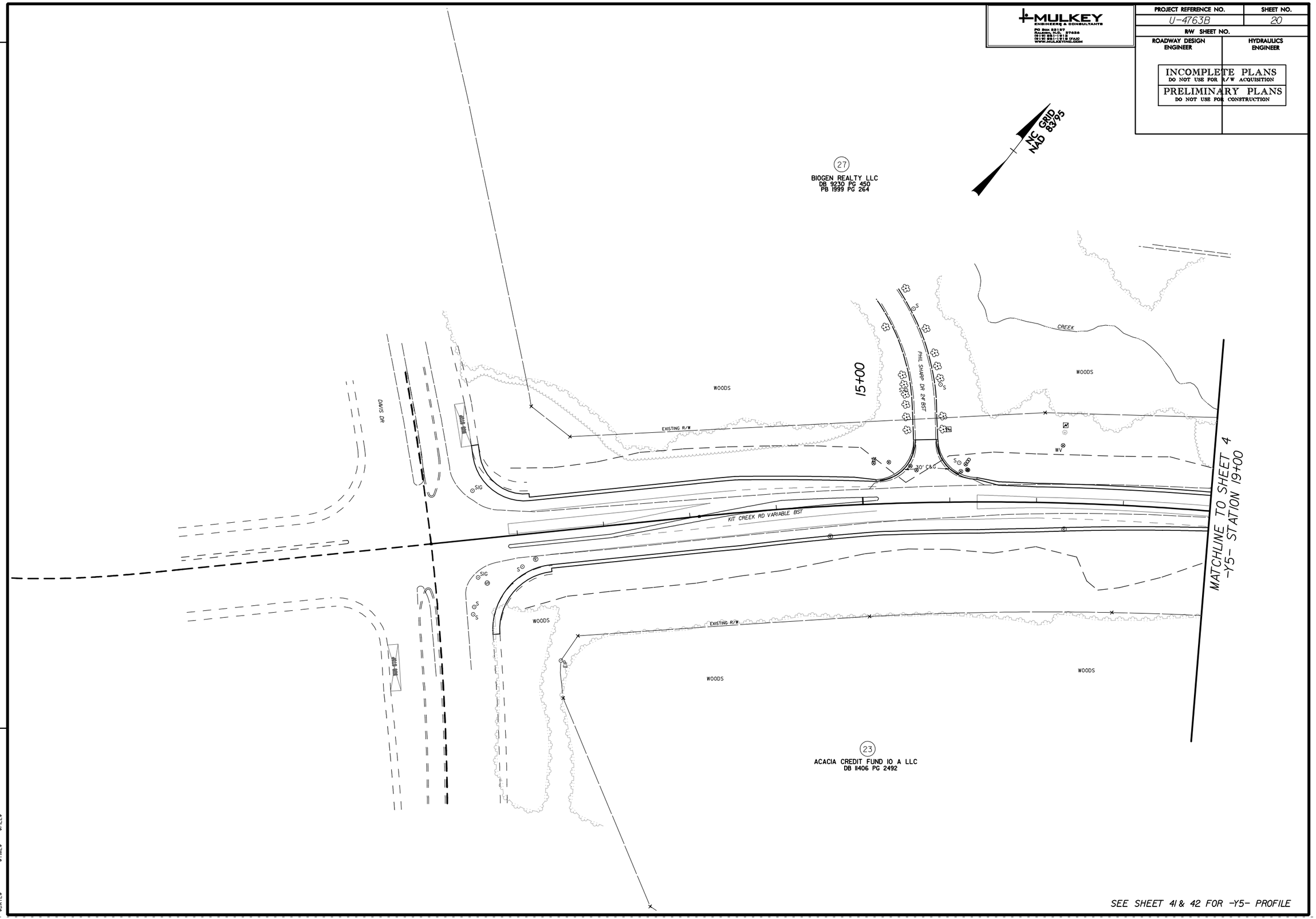
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS

$DATE$ $TIME$ $FILE$



SEE SHEET 41 & 42 FOR -Y5- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-4763B	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

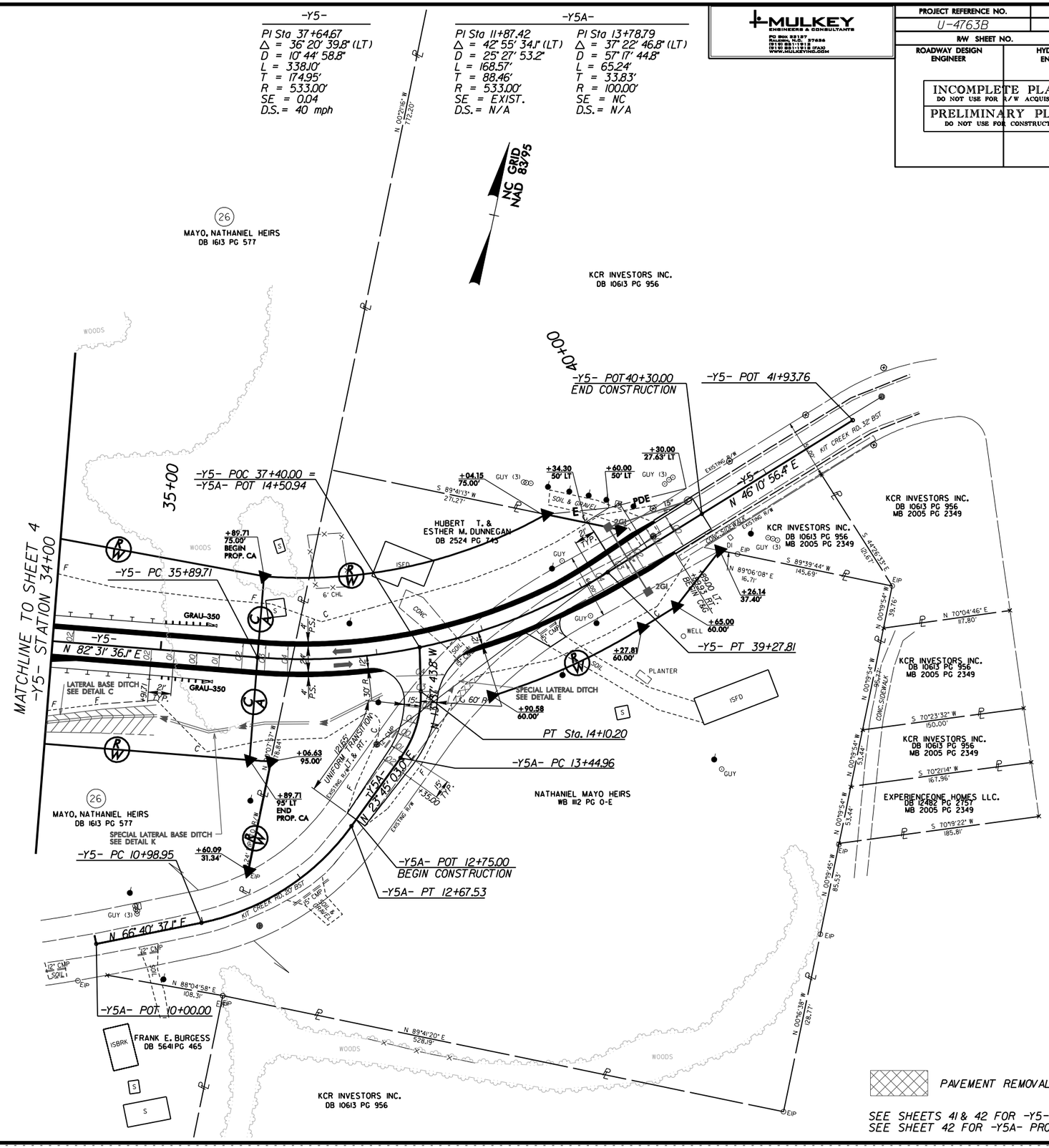
REVISIONS

$DATE$ $TIME$ $FILE$

-Y5-
PI Sta 37+64.67
Δ = 36° 20' 39.8" (LT)
D = 10° 44' 58.8"
L = 338.10'
T = 174.95'
R = 533.00'
SE = 0.04
D.S. = 40 mph

-Y5A-
PI Sta 11+87.42
Δ = 42° 55' 34.1" (LT)
D = 25° 27' 53.2"
L = 168.57'
T = 88.46'
R = 533.00'
SE = EXIST.
D.S. = N/A

PI Sta 13+78.79
Δ = 37° 22' 46.8" (LT)
D = 57° 17' 44.8"
L = 65.24'
T = 33.83'
R = 100.00'
SE = NC
D.S. = N/A



SEE SHEETS 41 & 42 FOR -Y5- PROFILE
SEE SHEET 42 FOR -Y5A- PROFILE

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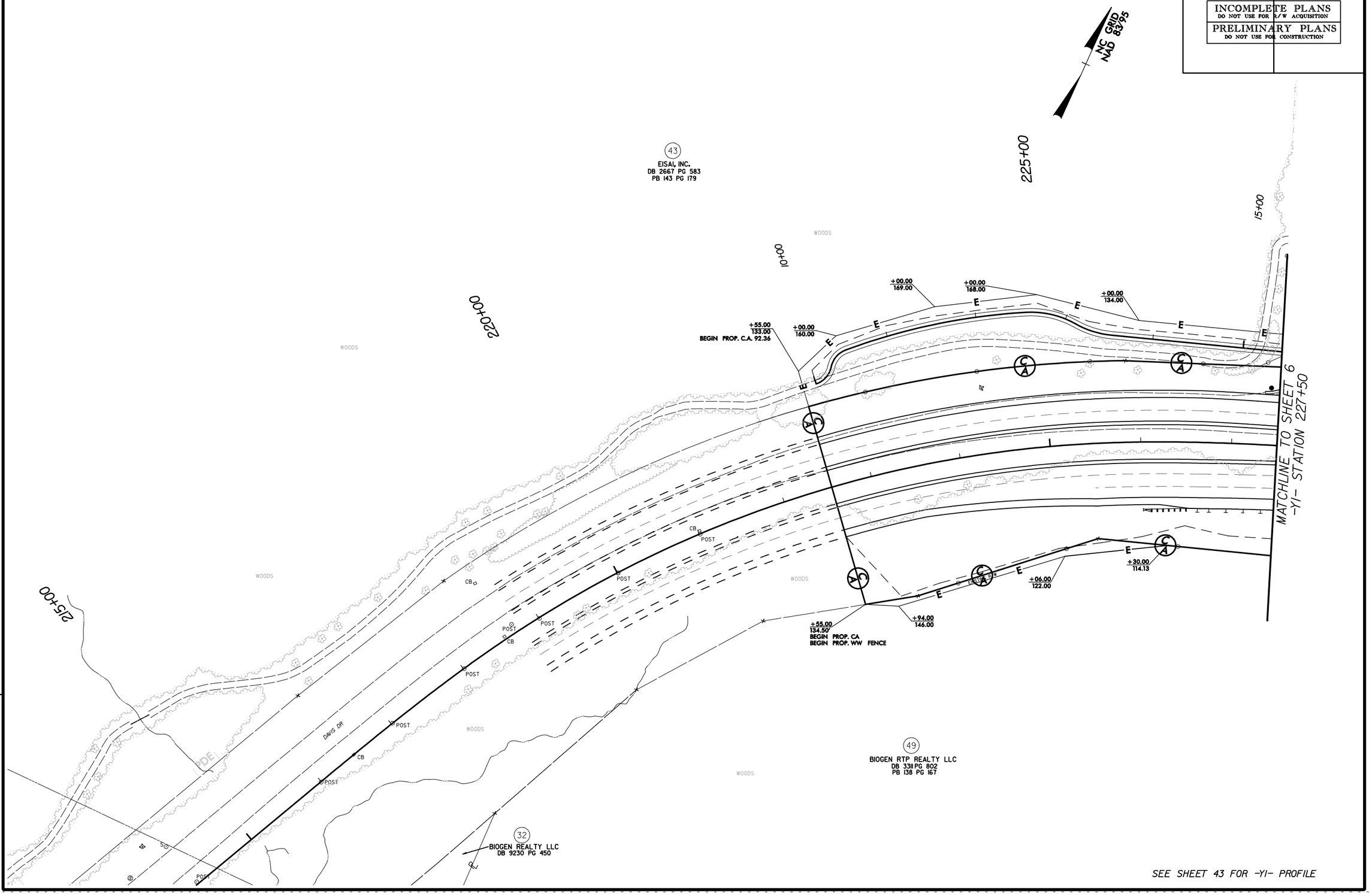
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS

$DATE$ $TIME$ $FILE$



SEE SHEET 43 FOR -Y1- PROFILE

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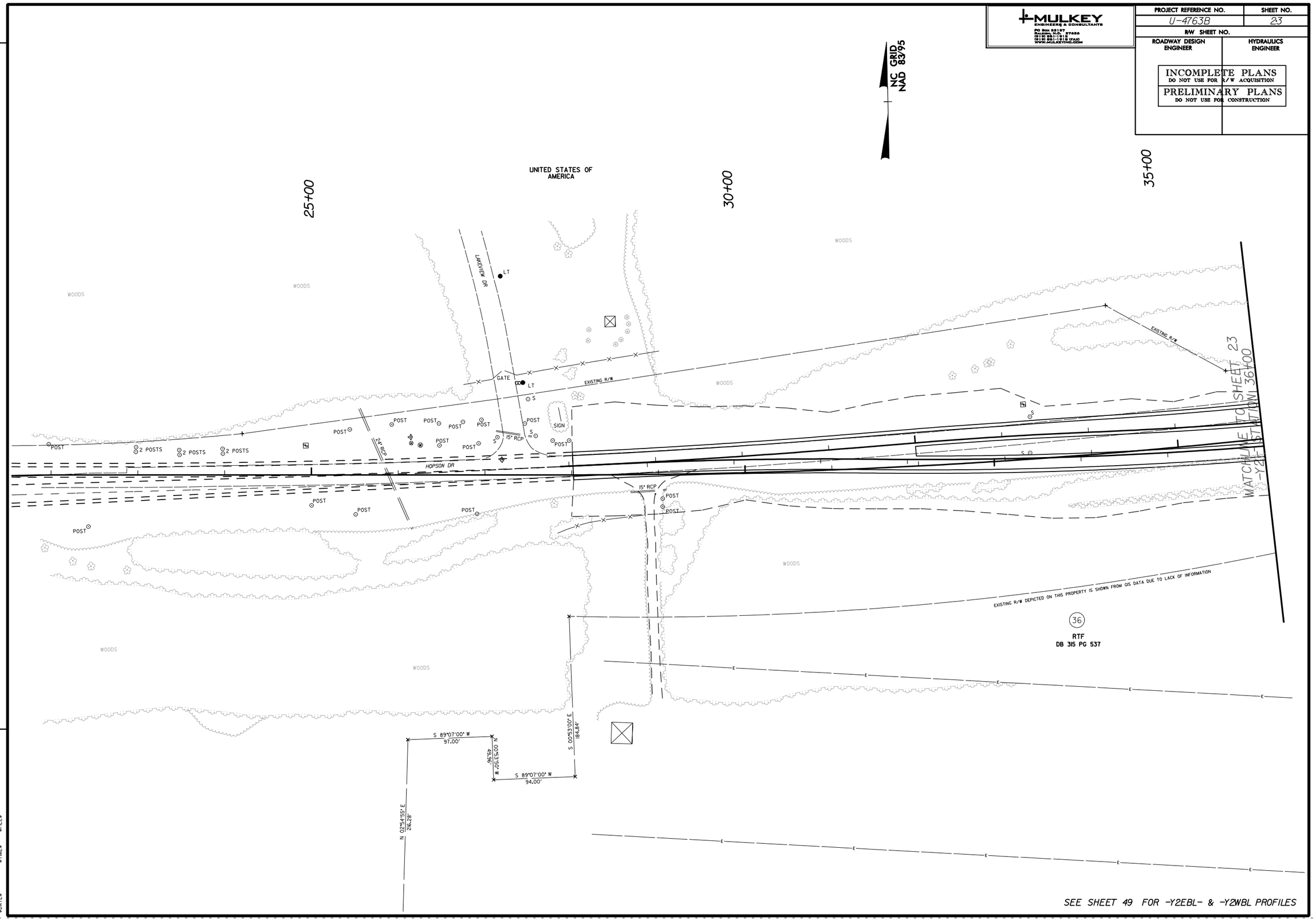
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS

$DATE$ $TIME$ $FILE$



SEE SHEET 49 FOR -Y2EBL- & -Y2WBL PROFILES

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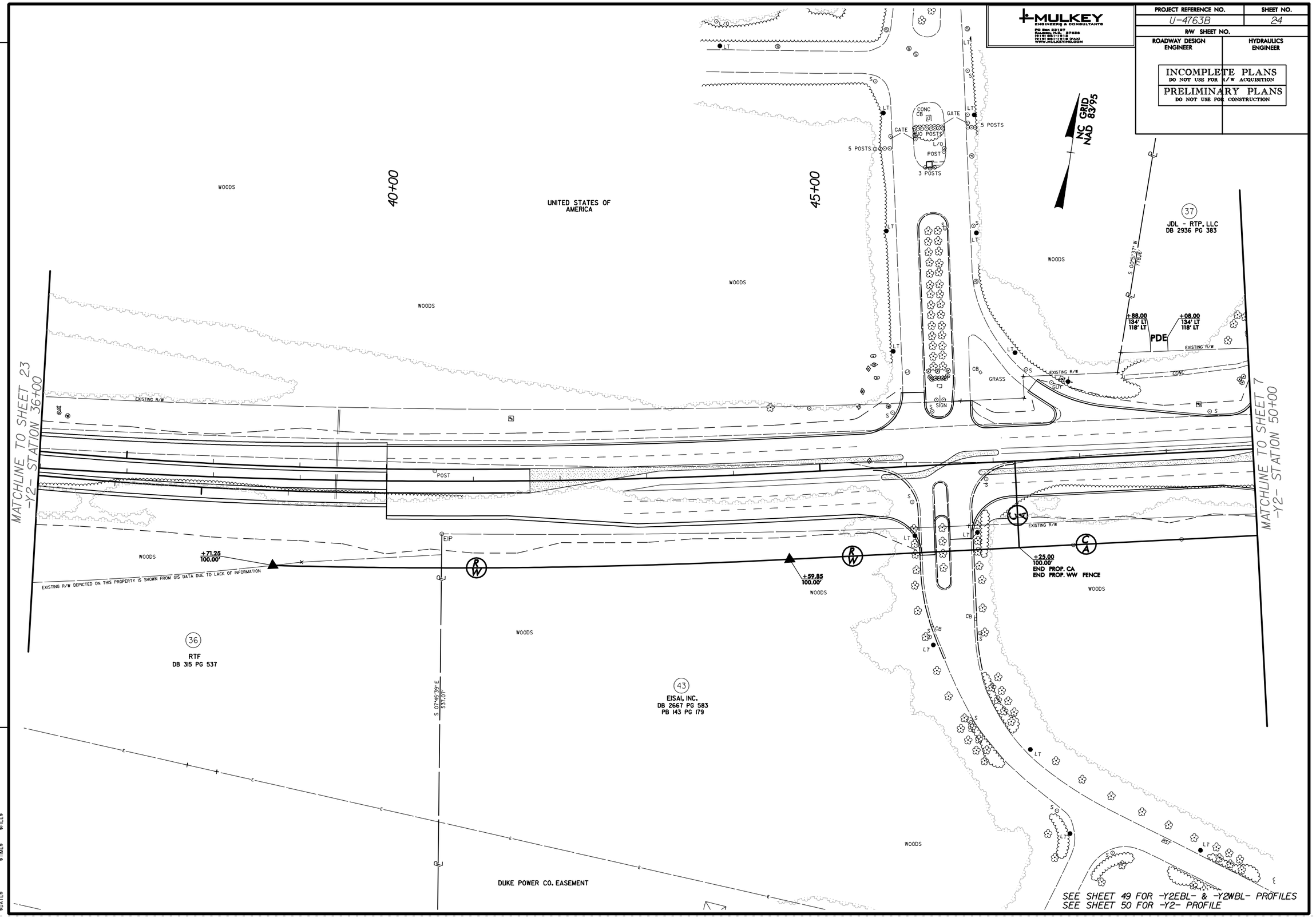
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

$DATE$ $TIME$ $FILE$

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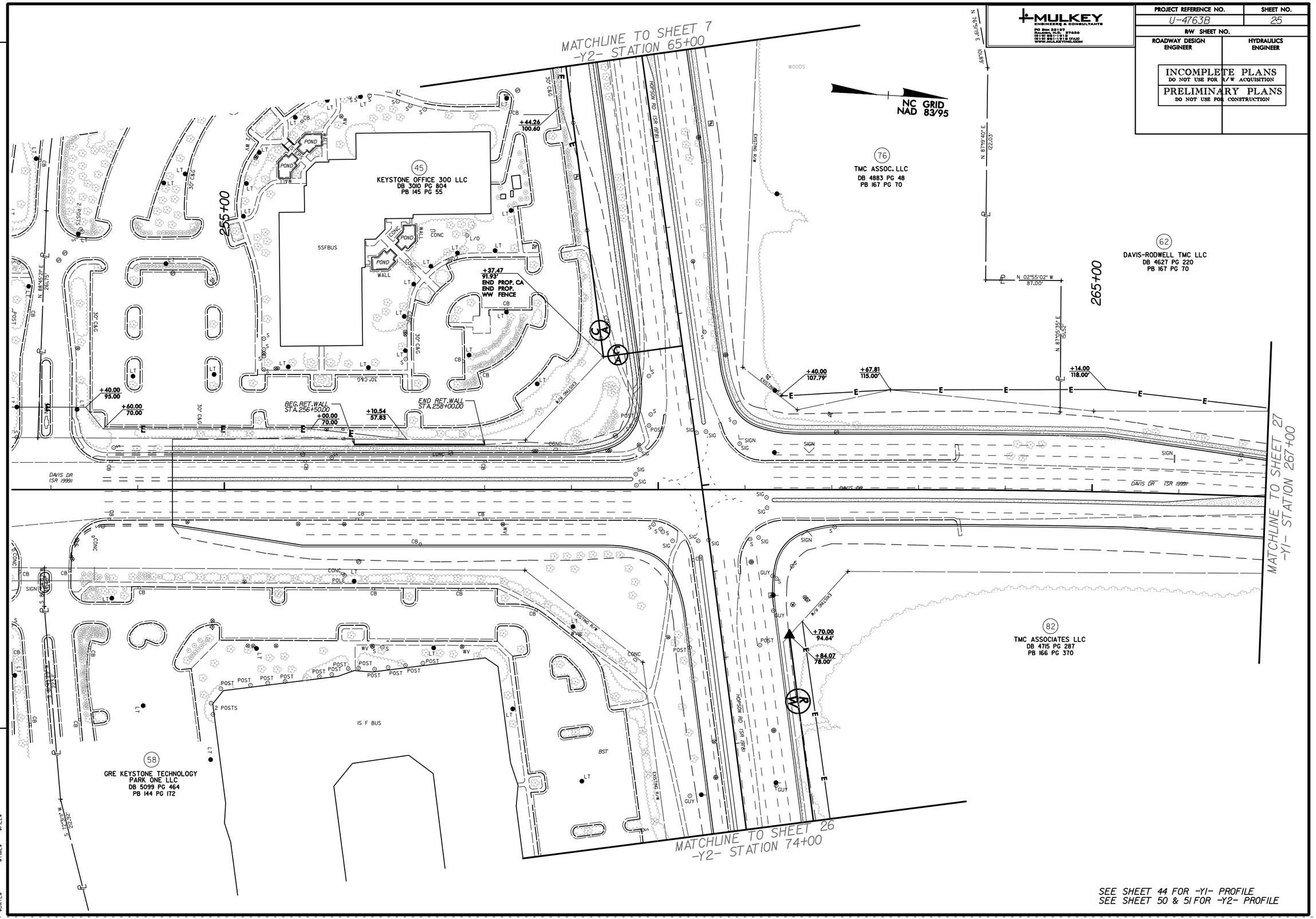
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 44 FOR -Y1- PROFILE
SEE SHEET 50 & 51 FOR -Y2- PROFILE

REVISIONS

$DATE$ $TIME$ $FILE$

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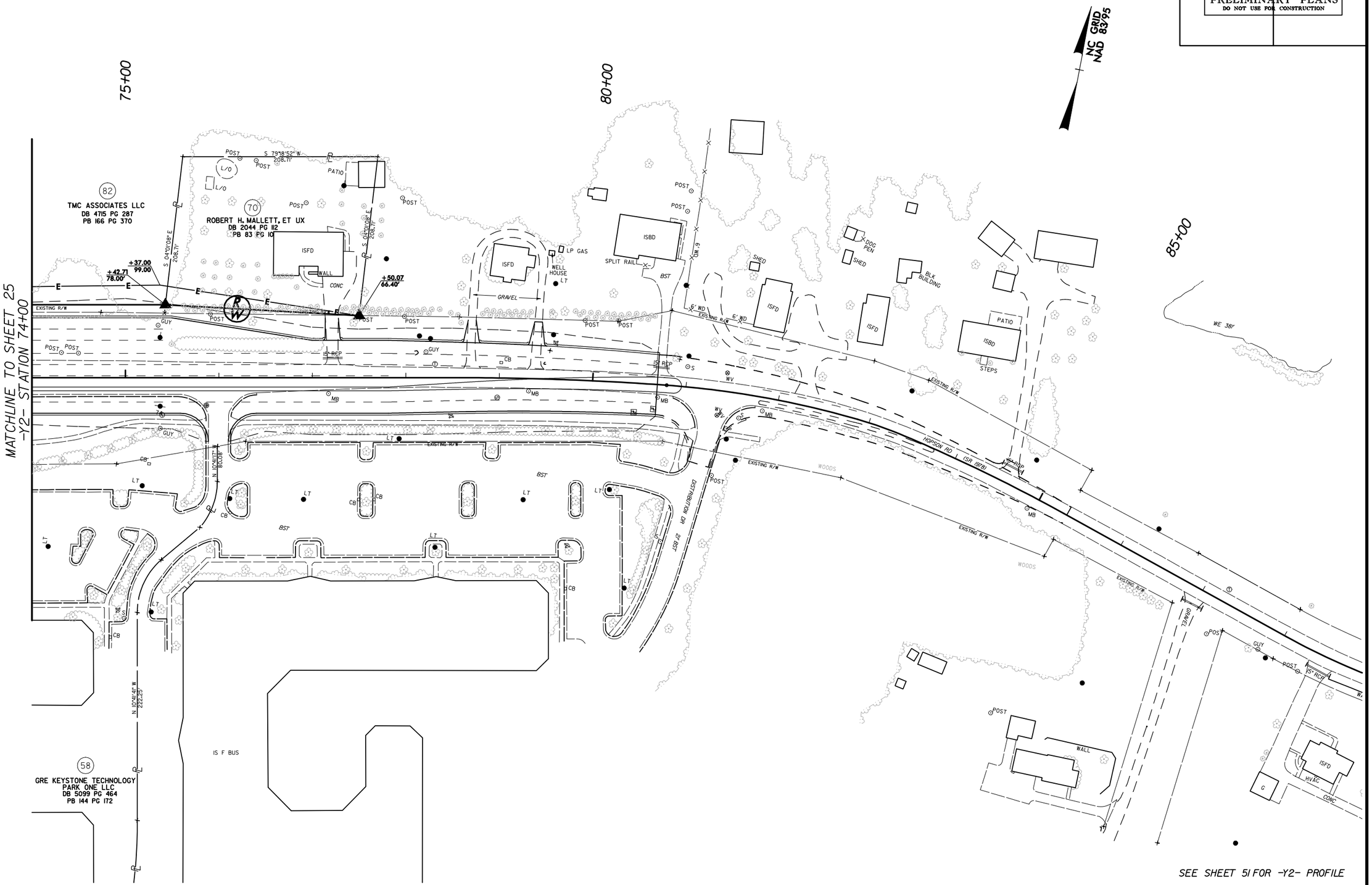
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 51 FOR -Y2- PROFILE

REVISIONS

$DATE$ $TIME$ $FILE$

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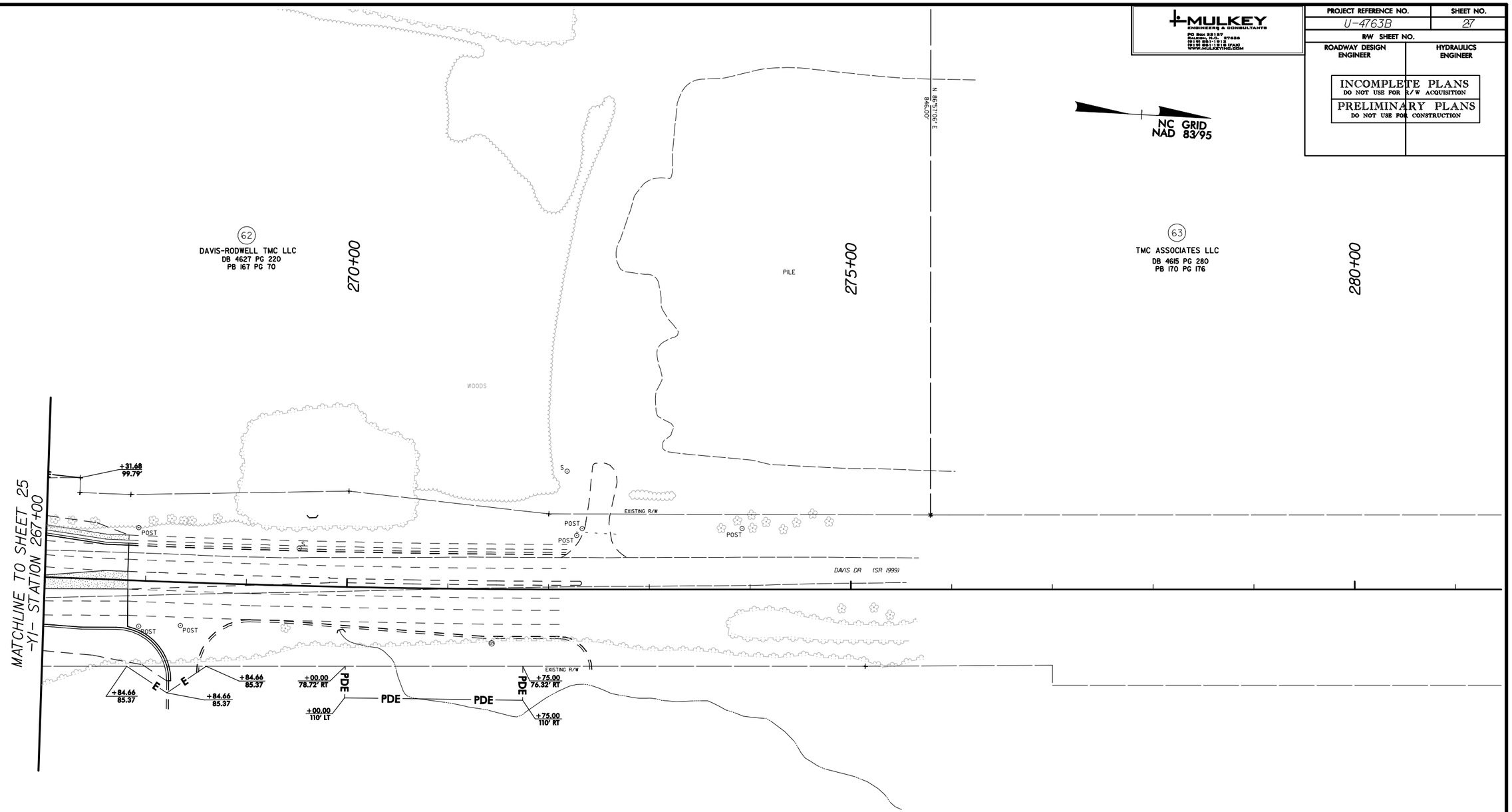
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 44 FOR -Y1- PROFILE

REVISIONS

$DATE$ $TIME$ $FILE$

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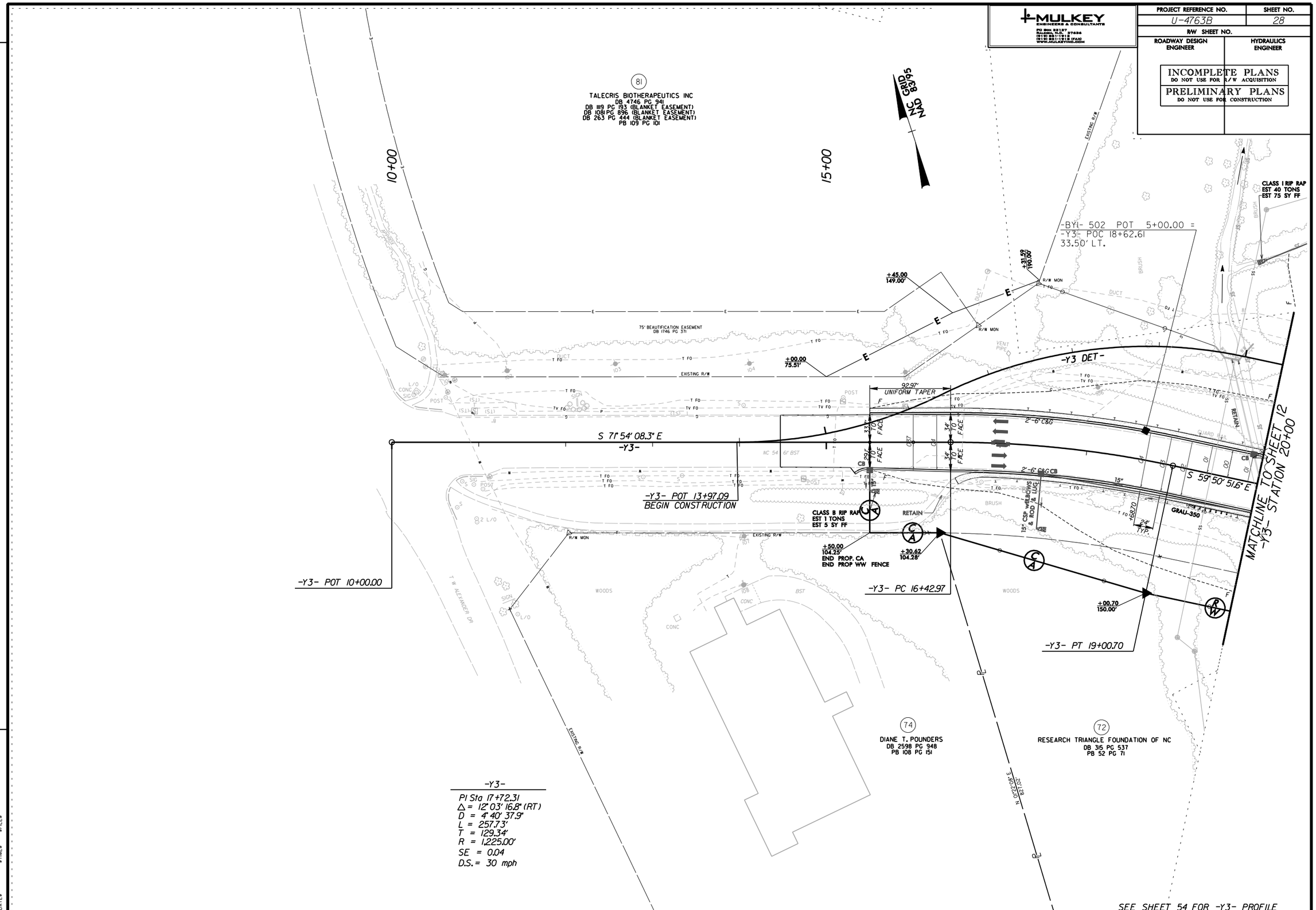
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

REVISIONS



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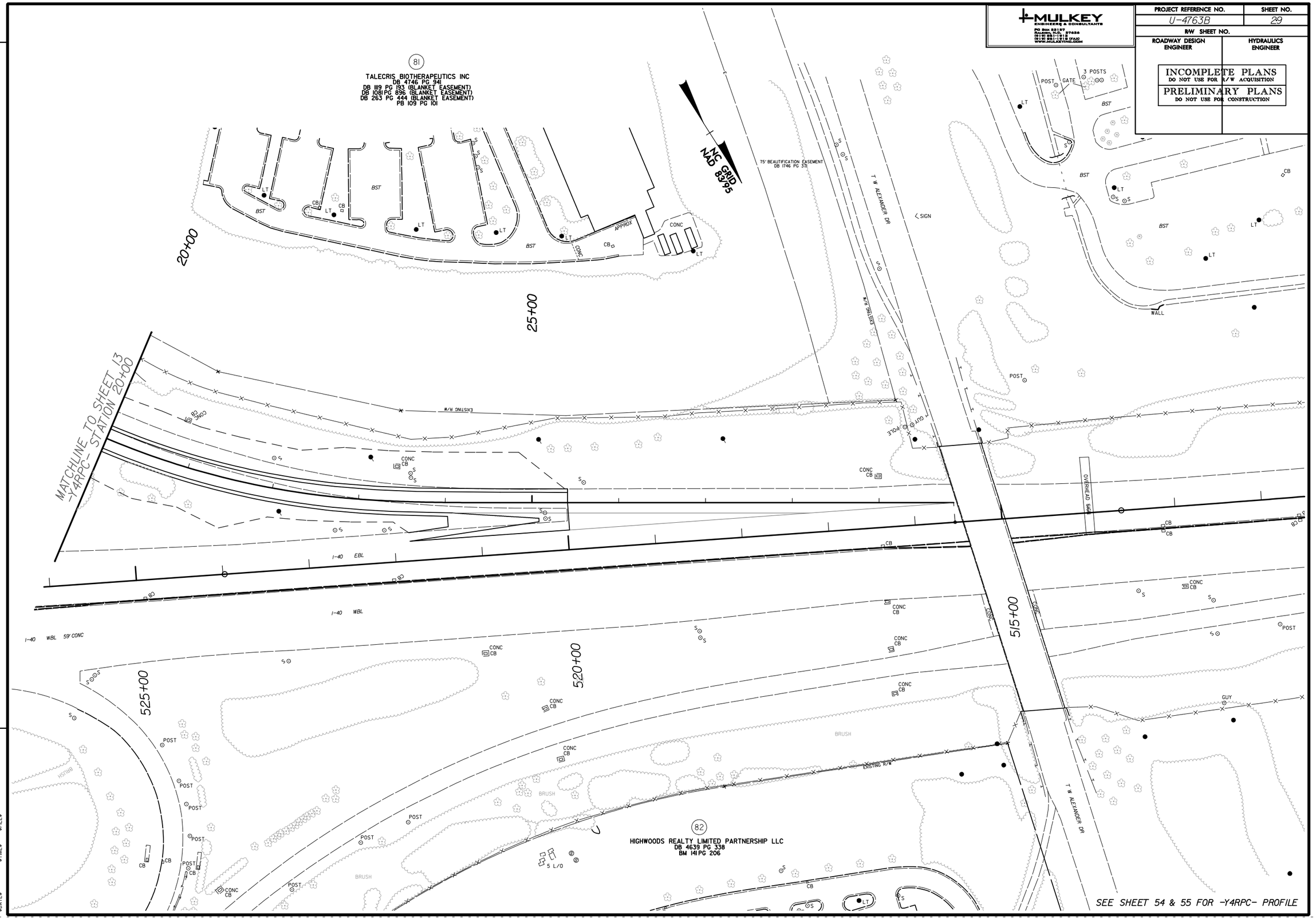
PROJECT REFERENCE NO.	SHEET NO.
U-4763B	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

$DATE$ $TIME$ $FILE$