

8/17/99

REVISIONS

-L- CURVE DATA  
PI Sta 19+69.87  
 $\Delta = 4^\circ 37' 23.1''$  (LT)  
D = 2' 17' 30.6"  
L = 201.72'  
T = 100.91'  
R = 2,500.00'

-LSB- CURVE DATA  
PI Sta 19+29.71  
 $\Delta = 6^\circ 05' 10.7''$  (LT)  
D = 1' 54' 35.5"  
L = 318.68'  
T = 159.49'  
R = 3,000.00'  
SE = 025

-RPC- CURVE DATA  
PI Sta 19+29.71  
 $\Delta = 6^\circ 05' 10.7''$  (LT)  
D = 1' 54' 35.5"  
L = 318.68'  
T = 159.49'  
R = 3,000.00'  
SE = 025

-RPD- CURVE DATA  
PI Sta 27+95.62  
 $\Delta = 124^\circ 23' 14.0''$  (RT)  
D = 3' 49' 51.6"  
L = 390.77'  
T = 341.31'  
R = 180.00'  
SE = 03  
RO = 84'  
DS = 25 MPH  
LOW SPEED URBAN

-RPDSPUR- CURVE DATA  
PI Sta 27+78.20  
 $\Delta = 55^\circ 02' 03.6''$  (LT)  
D = 19' 05' 54.9"  
L = 288.16'  
T = 156.28'  
R = 300.00'  
SE = 08  
RO = XX'

-LNB- CURVE DATA  
PI Sta 23+33.05  
 $\Delta = 27^\circ 41' 33.1''$  (LT)  
D = 20' 27' 46.0"  
L = 135.33'  
T = 69.01'  
R = 280.00'  
SE = 025

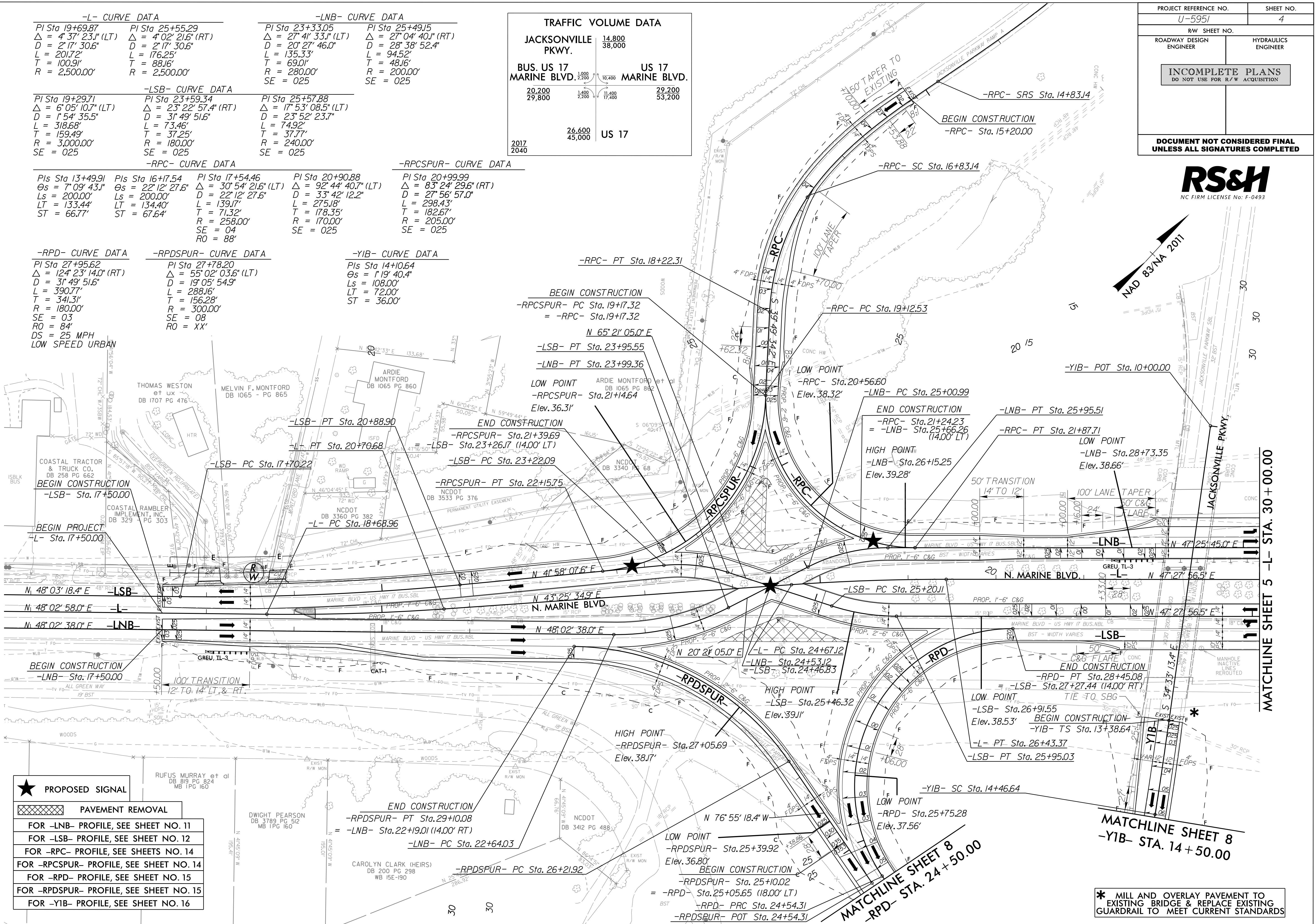
-LSB- CURVE DATA  
PI Sta 23+59.34  
 $\Delta = 23^\circ 22' 57.4''$  (RT)  
D = 3' 49' 51.6"  
L = 73.46'  
T = 37.25'  
R = 180.00'  
SE = 025

-RPC- CURVE DATA  
PI Sta 25+57.88  
 $\Delta = 17^\circ 53' 08.5''$  (LT)  
D = 23' 52' 23.7"  
L = 74.92'  
T = 37.77'  
R = 240.00'  
SE = 025

-RPCSPUR- CURVE DATA  
PI Sta 20+90.88  
 $\Delta = 83^\circ 24' 29.6''$  (RT)  
D = 27' 56' 57.0"  
L = 298.43'  
T = 182.67'  
R = 205.00'  
SE = 025

-YIB- CURVE DATA  
PIs Sta 14+10.64  
 $\Delta = 1^\circ 19' 40.4''$   
D = 19' 05' 54.9"  
L = 72.00'  
T = 36.00'

| TRAFFIC VOLUME DATA |        |                    |        |
|---------------------|--------|--------------------|--------|
| JACKSONVILLE PKWY.  |        | US 17 MARINE BLVD. |        |
| BUS. US 17          | 1,800  | US 17              | 29,200 |
| MARINE BLVD.        | 29,800 | MARINE BLVD.       | 53,200 |
|                     | 1,400  |                    | 11,400 |
|                     | 2,200  |                    | 17,400 |
|                     | 26,600 |                    | 45,000 |
| 2017                |        | US 17              |        |
| 2040                |        |                    |        |

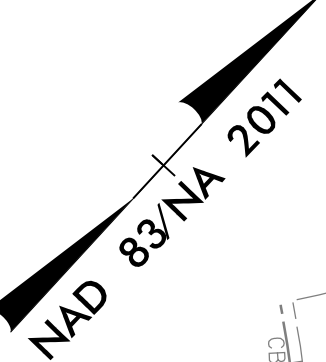


|                                         |                  |
|-----------------------------------------|------------------|
| ★                                       | PROPOSED SIGNAL  |
| ▨                                       | PAVEMENT REMOVAL |
| FOR -LNB- PROFILE, SEE SHEET NO. 11     |                  |
| FOR -LSB- PROFILE, SEE SHEET NO. 12     |                  |
| FOR -RPC- PROFILE, SEE SHEETS NO. 14    |                  |
| FOR -RPCSPUR- PROFILE, SEE SHEET NO. 14 |                  |
| FOR -RPD- PROFILE, SEE SHEET NO. 15     |                  |
| FOR -RPDSPUR- PROFILE, SEE SHEET NO. 15 |                  |
| FOR -YIB- PROFILE, SEE SHEET NO. 16     |                  |

\* MILL AND OVERLAY PAVEMENT TO EXISTING BRIDGE & REPLACE EXISTING GUARDRAIL TO MEET CURRENT STANDARDS

|                                                                  |  |                        |  |
|------------------------------------------------------------------|--|------------------------|--|
| PROJECT REFERENCE NO.                                            |  | SHEET NO.              |  |
| U-5951                                                           |  | 4                      |  |
| RW SHEET NO.                                                     |  |                        |  |
| ROADWAY DESIGN<br>ENGINEER                                       |  | HYDRAULICS<br>ENGINEER |  |
| INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION               |  |                        |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |                        |  |

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NC FIRM LICENSE No: F-0493

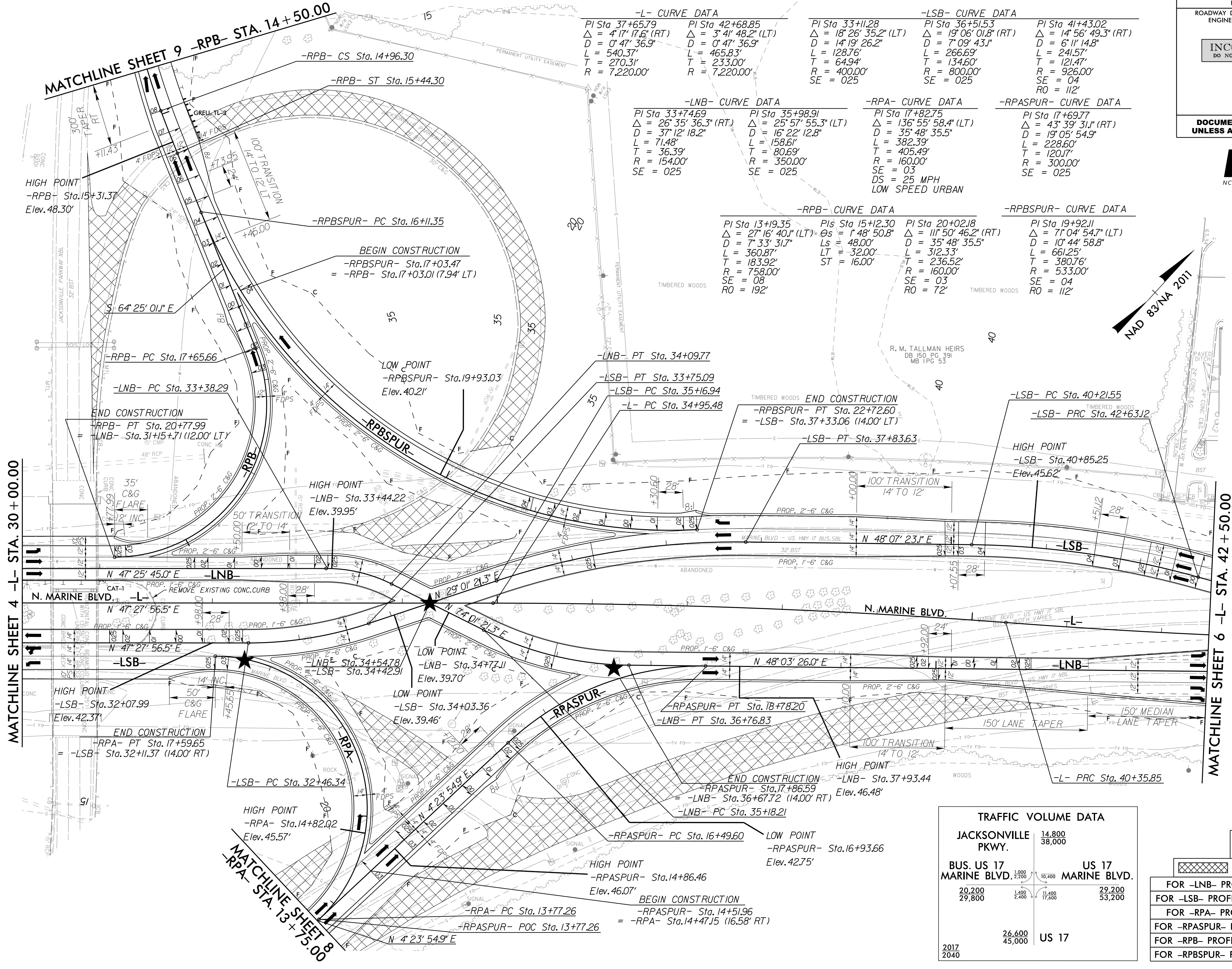


MATCHLINE SHEET 5 -L- STA. 30 + 00.00

MATCHLINE SHEET 8  
-YIB- STA. 14 + 50.00

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MATCHLINE SHEET 4 -L- STA. 30+00.00



-L- CURVE DATA

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| PI Sta. 37+65.79                  | PI Sta. 42+68.85                  |
| $\Delta = 4^{\circ}17'17.6"$ (RT) | $\Delta = 3^{\circ}41'48.2"$ (LT) |
| $D = 0^{\circ}47'36.9"$           | $D = 0^{\circ}47'36.9"$           |
| $L = 540.37'$                     | $L = 465.83'$                     |
| $T = 270.31'$                     | $T = 233.00'$                     |
| $R = 7,220.00'$                   | $R = 7,220.00'$                   |

-LSB- CURVE DATA

|                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|
| PI Sta. 33+11.28                   | PI Sta. 36+51.53                   | PI Sta. 41+43.02                   |
| $\Delta = 18^{\circ}26'35.2"$ (LT) | $\Delta = 19^{\circ}06'01.8"$ (RT) | $\Delta = 14^{\circ}56'49.3"$ (RT) |
| $D = 14^{\circ}19'26.2"$           | $D = 7^{\circ}09'43.1"$            | $D = 6^{\circ}11'14.8"$            |
| $L = 128.76'$                      | $L = 266.69'$                      | $L = 241.57'$                      |
| $T = 64.94'$                       | $T = 134.60'$                      | $T = 121.47'$                      |
| $R = 400.00'$                      | $R = 800.00'$                      | $R = 926.00'$                      |
| $SE = 025$                         | $SE = 025$                         | $SE = 04$                          |
|                                    |                                    | $RO = 112'$                        |

-LNB- CURVE DATA

|                                    |                                    |
|------------------------------------|------------------------------------|
| PI Sta. 33+74.69                   | PI Sta. 35+98.91                   |
| $\Delta = 26^{\circ}35'36.3"$ (RT) | $\Delta = 25^{\circ}57'55.3"$ (LT) |
| $D = 37^{\circ}12'18.2"$           | $D = 16^{\circ}22'12.8"$           |
| $L = 71.48'$                       | $L = 158.61'$                      |
| $T = 36.39'$                       | $T = 80.69'$                       |
| $R = 154.00'$                      | $R = 350.00'$                      |
| $SE = 025$                         | $SE = 025$                         |

-RPA- CURVE DATA

|                                     |
|-------------------------------------|
| PI Sta. 17+82.75                    |
| $\Delta = 136^{\circ}55'58.4"$ (LT) |
| $D = 35^{\circ}48'35.5"$            |
| $L = 382.39'$                       |
| $T = 405.49'$                       |
| $R = 160.00'$                       |
| $SE = 03$                           |
| $DS = 25$ MPH                       |
| LOW SPEED URBAN                     |

-RPASPUR- CURVE DATA

|                                    |
|------------------------------------|
| PI Sta. 17+69.77                   |
| $\Delta = 43^{\circ}39'31.1"$ (RT) |
| $D = 19^{\circ}05'54.9"$           |
| $L = 228.60'$                      |
| $T = 120.17'$                      |
| $R = 300.00'$                      |
| $SE = 025$                         |

-RPB- CURVE DATA

|                                    |                              |                                     |
|------------------------------------|------------------------------|-------------------------------------|
| PI Sta. 13+19.35                   | PI Sta. 15+12.30             | PI Sta. 20+02.18                    |
| $\Delta = 27^{\circ}16'40.1"$ (LT) | $\Delta = 1^{\circ}48'50.8"$ | $\Delta = 111^{\circ}50'46.2"$ (RT) |
| $D = 7^{\circ}33'31.7"$            | $D = 48.00'$                 | $D = 35^{\circ}48'35.5"$            |
| $L = 360.87'$                      | $L = 312.33'$                | $L = 312.33'$                       |
| $T = 183.92'$                      | $T = 16.00'$                 | $T = 236.52'$                       |
| $R = 758.00'$                      | $R = 160.00'$                | $R = 160.00'$                       |
| $SE = 08$                          | $SE = 03$                    | $SE = 03$                           |
| $RO = 192'$                        | $RO = 72'$                   | $RO = 72'$                          |

-RPBSPUR- CURVE DATA

|                                    |
|------------------------------------|
| PI Sta. 19+92.11                   |
| $\Delta = 71^{\circ}04'54.7"$ (LT) |
| $D = 10^{\circ}44'58.8"$           |
| $L = 661.25'$                      |
| $T = 380.76'$                      |
| $R = 533.00'$                      |
| $SE = 04$                          |
| $RO = 112'$                        |

| TRAFFIC VOLUME DATA |  |                    |  |
|---------------------|--|--------------------|--|
| JACKSONVILLE PKWY.  |  | US 17 MARINE BLVD. |  |
| 20,200              |  | 20,200             |  |
| 29,800              |  | 29,200             |  |
| 26,600              |  | US 17              |  |
| 45,000              |  |                    |  |
| 2017                |  |                    |  |
| 2040                |  |                    |  |

|                                          |
|------------------------------------------|
| ★ PROPOSED SIGNAL                        |
| PAVEMENT REMOVAL                         |
| FOR -LNB- PROFILE, SEE SHEET NO. 11      |
| FOR -LSB- PROFILE, SEE SHEETS NO. 12, 13 |
| FOR -RPA- PROFILE, SEE SHEET NO. 13      |
| FOR -RPASPUR- PROFILE, SEE SHEET NO. 13  |
| FOR -RPB- PROFILE, SEE SHEETS NO. 13, 14 |
| FOR -RPBSPUR- PROFILE, SEE SHEET NO. 14  |

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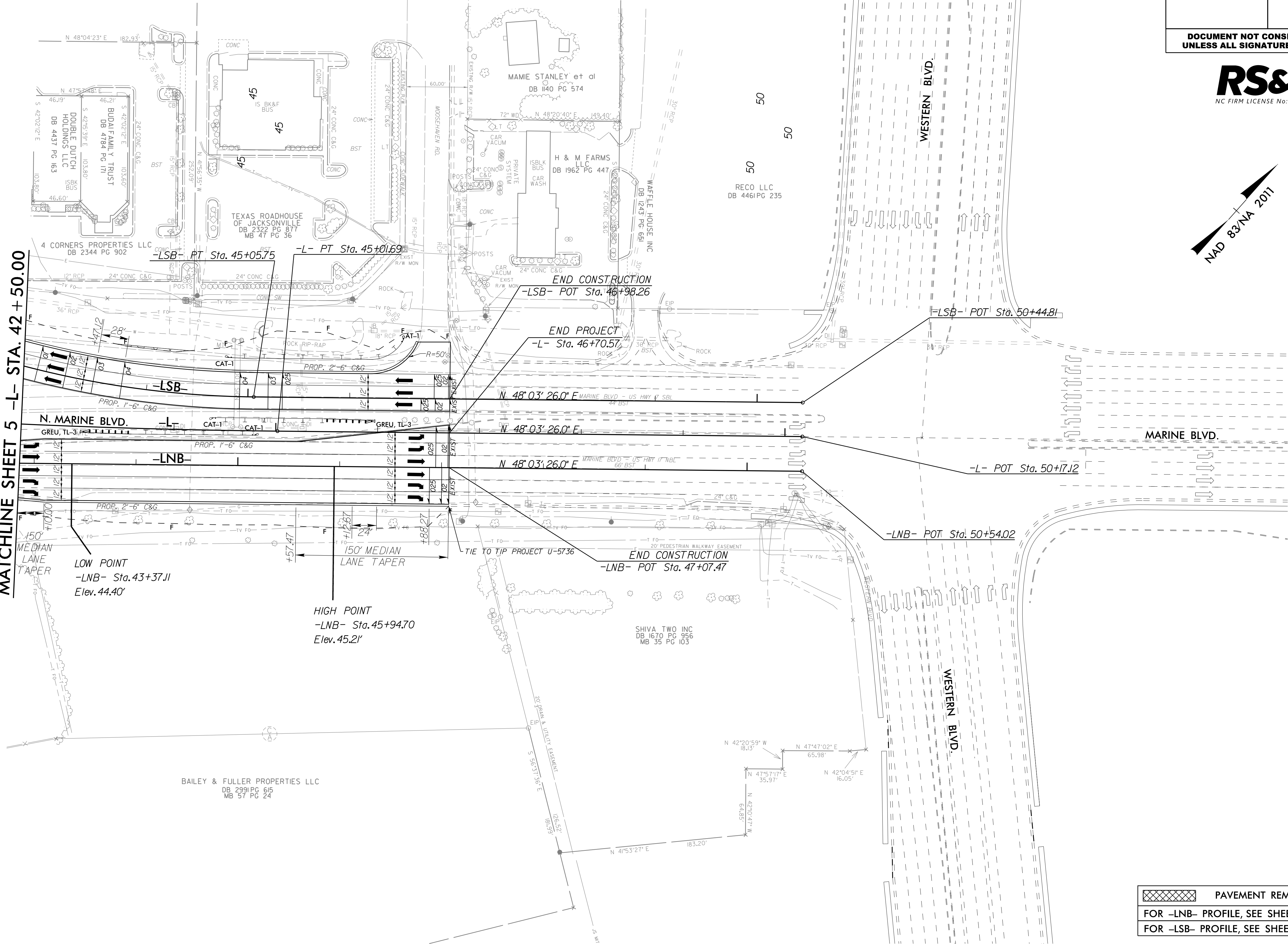
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MATCHLINE SHEET 5 -L- STA. 42+50.00

-LSB- CURVE DATA  
PI Sta 43+85.14  
 $\Delta = 15^{\circ}00'46.3"$  (LT)  
D = 6'11"14.8"  
L = 242.63'  
T = 122.02'  
R = 926.00'  
SE = 04  
RO = 112'

-L- CURVE DATA  
PI Sta 42+68.85  
 $\Delta = 3^{\circ}41'48.2"$  (LT)  
D = 0'47'36.9"  
L = 465.83'  
T = 233.00'  
R = 7,220.00'



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NAD 83/NA 2011

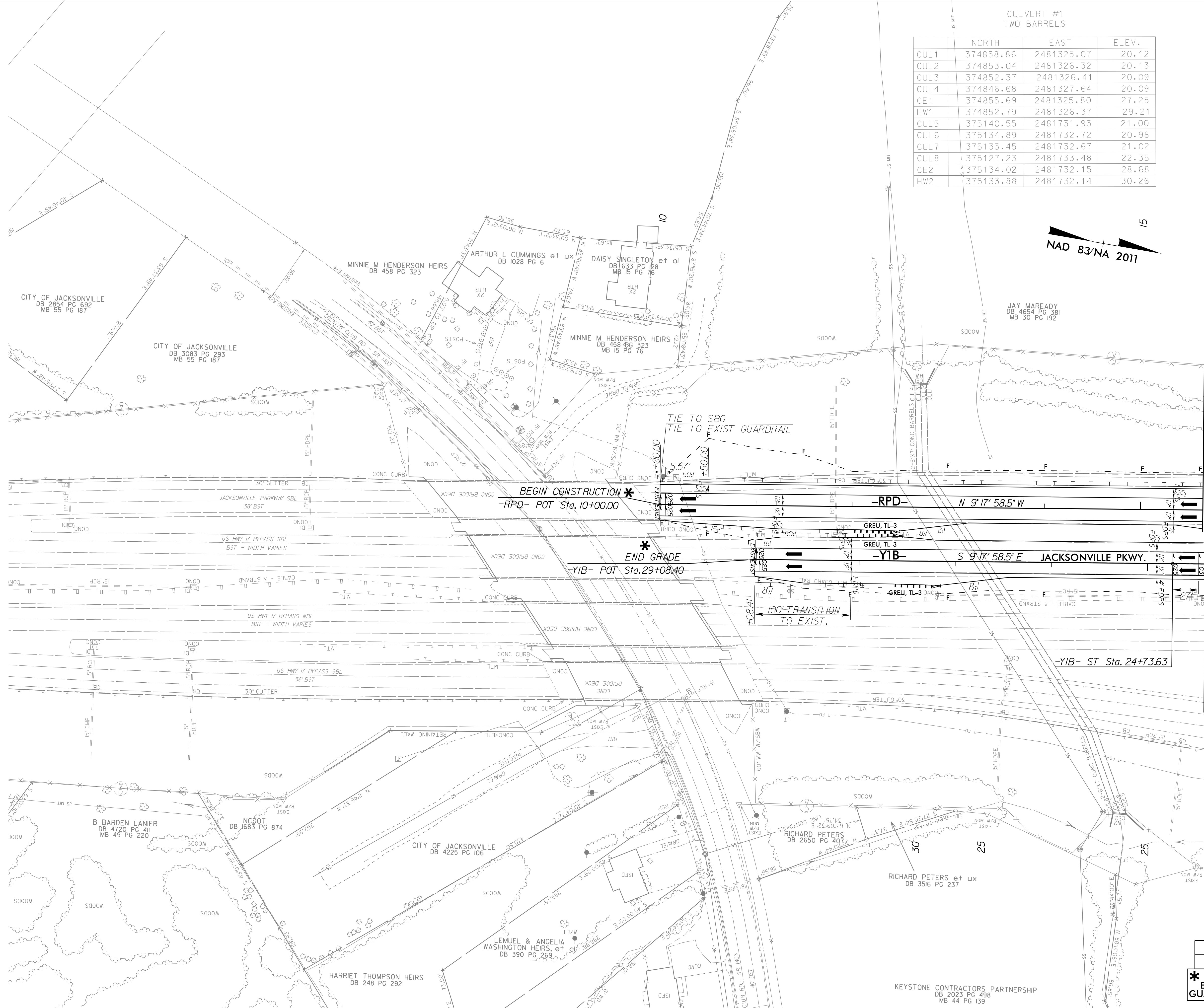
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|------------------------------------------------------------------|--|---------------------|--|
| PROJECT REFERENCE NO.                                            |  | SHEET NO.           |  |
| U-5951                                                           |  | 6                   |  |
| RW SHEET NO.                                                     |  |                     |  |
| ROADWAY DESIGN ENGINEER                                          |  | HYDRAULICS ENGINEER |  |
| INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION               |  |                     |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |                     |  |

|                                          |                  |
|------------------------------------------|------------------|
|                                          | PAVEMENT REMOVAL |
| FOR -LNB- PROFILE, SEE SHEETS NO. 11, 12 |                  |
| FOR -LSB- PROFILE, SEE SHEET NO. 13      |                  |

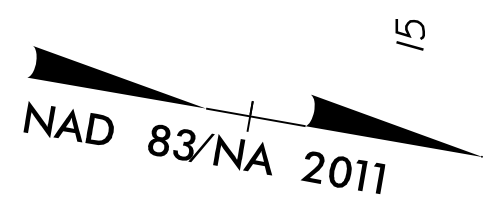
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| CULVERT #1<br>TWO BARRELS |           |            |       |
|---------------------------|-----------|------------|-------|
|                           | NORTH     | EAST       | ELEV. |
| CUL1                      | 374858.86 | 2481325.07 | 20.12 |
| CUL2                      | 374853.04 | 2481326.32 | 20.13 |
| CUL3                      | 374852.37 | 2481326.41 | 20.09 |
| CUL4                      | 374846.68 | 2481327.64 | 20.09 |
| CE1                       | 374855.69 | 2481325.80 | 27.25 |
| HW1                       | 374852.79 | 2481326.37 | 29.21 |
| CUL5                      | 375140.55 | 2481731.93 | 21.00 |
| CUL6                      | 375134.89 | 2481732.72 | 20.98 |
| CUL7                      | 375133.45 | 2481732.67 | 21.02 |
| CUL8                      | 375127.23 | 2481733.48 | 22.35 |
| CE2                       | 375134.02 | 2481732.15 | 28.68 |
| HW2                       | 375133.88 | 2481732.14 | 30.26 |



MATCHLINE SHEET 8 MATCHLINE SHEET 8  
-Y1B- STA. 24 + 40.00 -RPD- STA. 15 + 65.00

|                                                                  |  |                        |  |
|------------------------------------------------------------------|--|------------------------|--|
| PROJECT REFERENCE NO.                                            |  | SHEET NO.              |  |
| U-5951                                                           |  | 7                      |  |
| RW SHEET NO.                                                     |  |                        |  |
| ROADWAY DESIGN<br>ENGINEER                                       |  | HYDRAULICS<br>ENGINEER |  |
| INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION               |  |                        |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |                        |  |



| PAVEMENT REMOVAL                                                                                      |  |
|-------------------------------------------------------------------------------------------------------|--|
| FOR -RPD- PROFILE, SEE SHEET NO. 15                                                                   |  |
| FOR -Y1B- PROFILE, SEE SHEET NO. 16                                                                   |  |
| * MILL AND OVERLAY PAVEMENT TO EXISTING BRIDGE & REPLACE EXISTING GUARDRAIL TO MEET CURRENT STANDARDS |  |

8/17/99

-RPA- CURVE DATA

PI Sta 10+29.87  
 $\Delta = 1^{\circ} 54' 06.0''$  (RT)  
 $D = 3^{\circ} 10' 59.2''$   
 $L = 59.74'$   
 $T = 29.87'$   
 $R = 1,800.00'$   
 $SE = N/A$   
 $RO = N/A$

-RPD- CURVE DATA

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| PIs Sta 17+89.64                  | PI Sta 21+80.49                       |
| $\Theta_s = 8^{\circ} 11' 56.6''$ | $\Delta = 59^{\circ} 25' 22.4''$ (LT) |
| $L_s = 168.00'$                   | $D = 9^{\circ} 45' 38.8''$            |
| $LT = 112.12'$                    | $L = 608.79'$                         |
| $ST = 56.11'$                     | $T = 334.97'$                         |
|                                   | $R = 587.00'$                         |
|                                   | $SE = 08$                             |
|                                   | $RO = 224'$                           |

-YIB- CURVE DATA

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| PI Sta 19+12.19                       | PI Sta 24+01.63                   |
| $\Delta = 22^{\circ} 35' 54.1''$ (RT) | $\Theta_s = 1^{\circ} 19' 40.4''$ |
| $D = 2^{\circ} 27' 32.6''$            | $L_s = 108.00'$                   |
| $L = 918.99'$                         | $LT = 72.00'$                     |
| $T = 465.55'$                         | $ST = 36.00'$                     |
| $R = 2,330.00'$                       |                                   |
| $SE = 06$                             |                                   |
| $RO = 162'$                           |                                   |

NC DOT  
DB 1844 PG 239  
MB 47 PG 91

MATCHLINE SHEET 4  
-RPD- STA. 24 + 50.00

MATCHLINE SHEET 4  
-YIB- STA. 14 + 50.00

NAD 83/NA 2011

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NC FIRM LICENSE No: F-0493

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

-RPD- TS Sta. 16+77.52

END SBG

-RPD- STA. 17+50.00

-RPD- SC Sta. 18+45.52

END SBG  
-YIB- STA. 18+19.25

BEGIN CONSTRUCTION  
-RPA- Sta. 10+70.00

N 4° 23' 54.9" E

LOW POINT  
-YIB- Sta. 20+36.45  
Elev. 44.71'

-YIB- CS Sta. 23+65.63

-RPA- PC Sta. 10+00.00

-RPA- PT Sta. 10+59.74

KEYSTONE CONTRACTORS PARTNERSHIP  
DB 2023 PG 498  
MB 64 PG 54

PAVEMENT REMOVAL

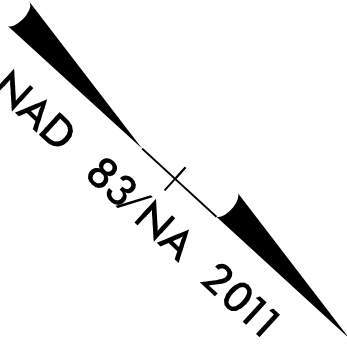
FOR -RPA- PROFILE, SEE SHEET NO. 13

FOR -RPD- PROFILE, SEE SHEET NO. 15

FOR -YIB- PROFILE, SEE SHEET NO. 16

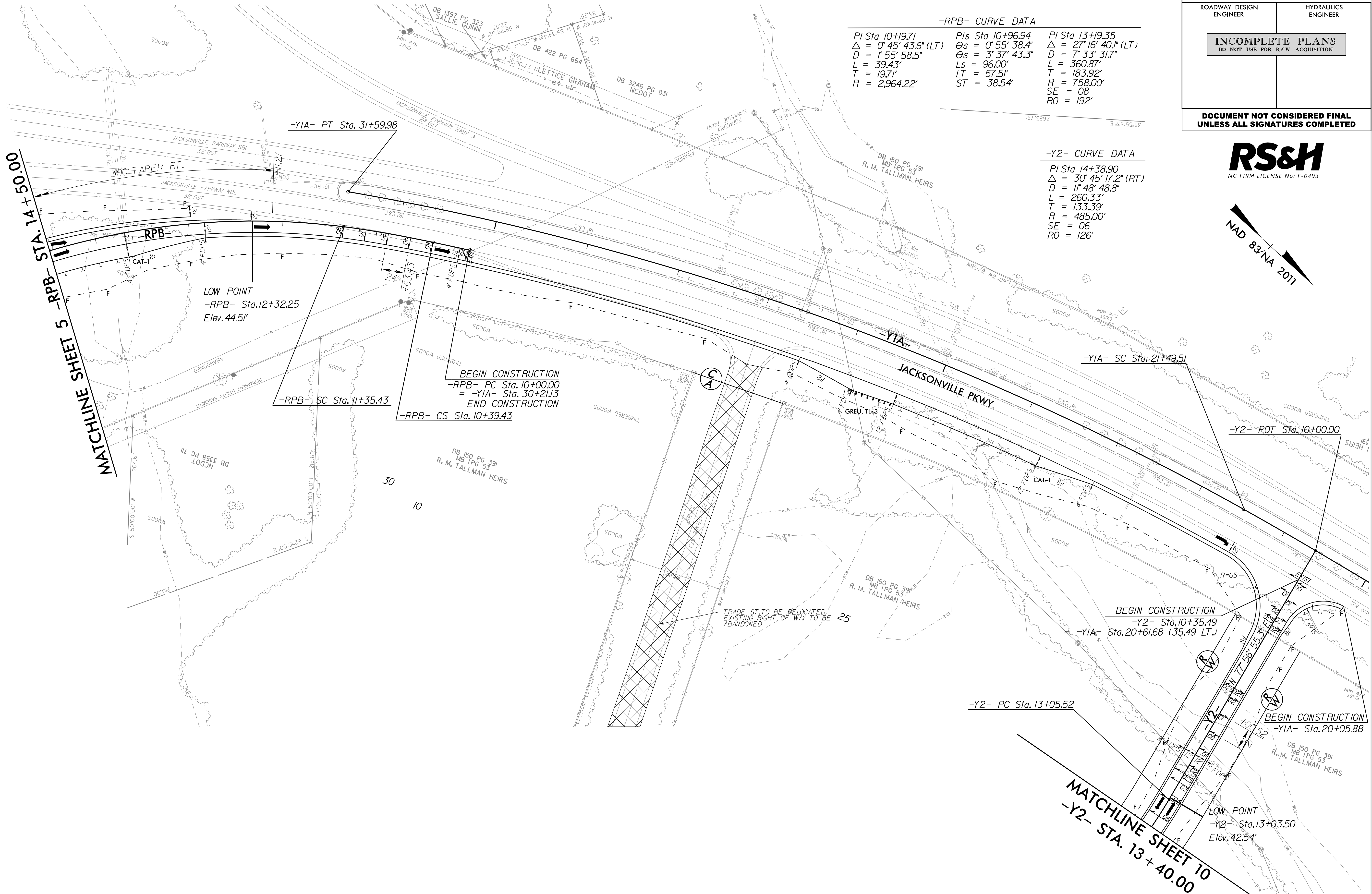
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|------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO.                                            | SHEET NO.           |
| U-5951                                                           | 9                   |
| RW SHEET NO.                                                     |                     |
| ROADWAY DESIGN ENGINEER                                          | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION               |                     |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                     |



| -RPB- CURVE DATA                     |                                   |                                       |
|--------------------------------------|-----------------------------------|---------------------------------------|
| PI Sta 10+19.71                      | PIs Sta 10+96.94                  | PI Sta 13+19.35                       |
| $\Delta = 0^{\circ} 45' 43.6''$ (LT) | $\Theta s = 0^{\circ} 55' 38.4''$ | $\Delta = 27^{\circ} 16' 40.1''$ (LT) |
| $D = 1^{\circ} 55' 58.5''$           | $\Theta s = 3^{\circ} 37' 43.3''$ | $D = 7^{\circ} 33' 31.7''$            |
| $L = 39.43'$                         | $Ls = 96.00'$                     | $L = 360.87'$                         |
| $T = 19.71'$                         | $LT = 57.51'$                     | $T = 183.92'$                         |
| $R = 2,964.22'$                      | $ST = 38.54'$                     | $R = 758.00'$                         |
|                                      |                                   | $SE = 08$                             |
|                                      |                                   | $RO = 192'$                           |

| -Y2- CURVE DATA                       |
|---------------------------------------|
| PI Sta 14+38.90                       |
| $\Delta = 30^{\circ} 45' 17.2''$ (RT) |
| $D = 1^{\circ} 48' 48.8''$            |
| $L = 260.33'$                         |
| $T = 133.39'$                         |
| $R = 485.00'$                         |
| $SE = 06$                             |
| $RO = 126'$                           |



-Y2- PC Sta. 13+05.52

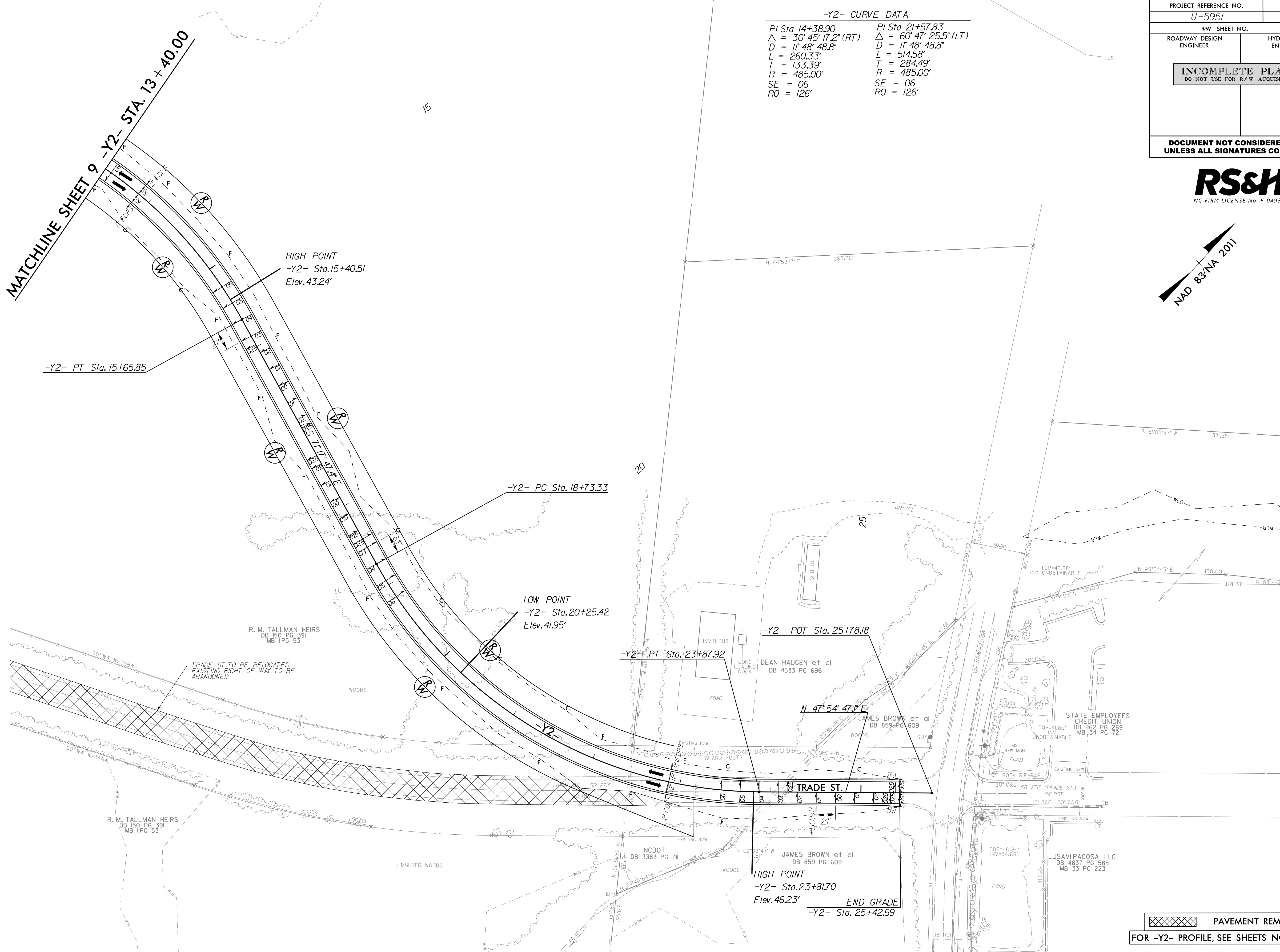
MATCHLINE SHEET 10  
-Y2- STA. 13 + 40.00

|                                     |                  |
|-------------------------------------|------------------|
|                                     | PAVEMENT REMOVAL |
| FOR -RPB- PROFILE, SEE SHEET NO. 13 |                  |
| FOR -Y2- PROFILE, SEE SHEET NO. 16  |                  |

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| PROJECT REFERENCE NO.                                            | SHEET NO.           |
| U-5951                                                           | 10                  |
| RW SHEET NO.                                                     |                     |
| ROADWAY DESIGN ENGINEER                                          | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS<br>DO NOT USE FOR R/W ACQUISITION               |                     |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                     |

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