

09.08/99

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

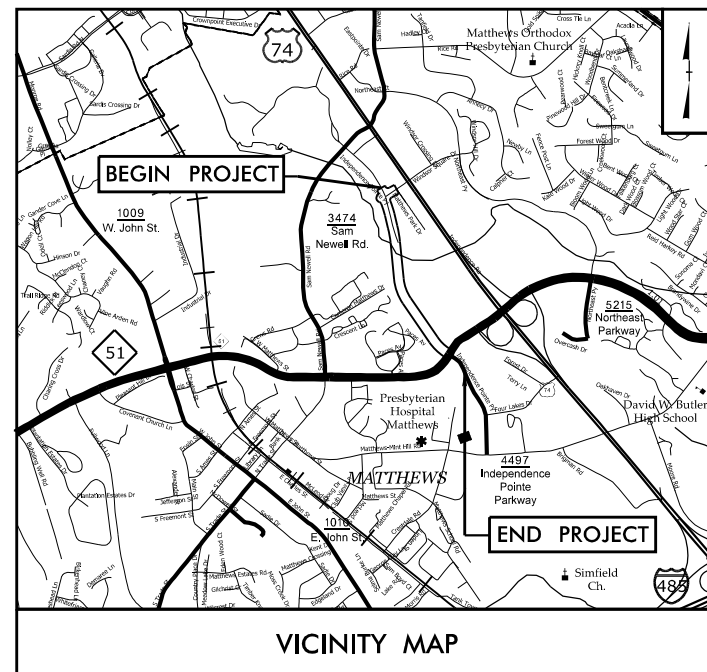
MECKLENBURG COUNTY

**LOCATION: INDEPENDENCE POINT PARKWAY
FROM WEST OF WINDSOR SQUARE DR TO
EAST OF MATTHEWS TOWNSHIP PARKWAY**

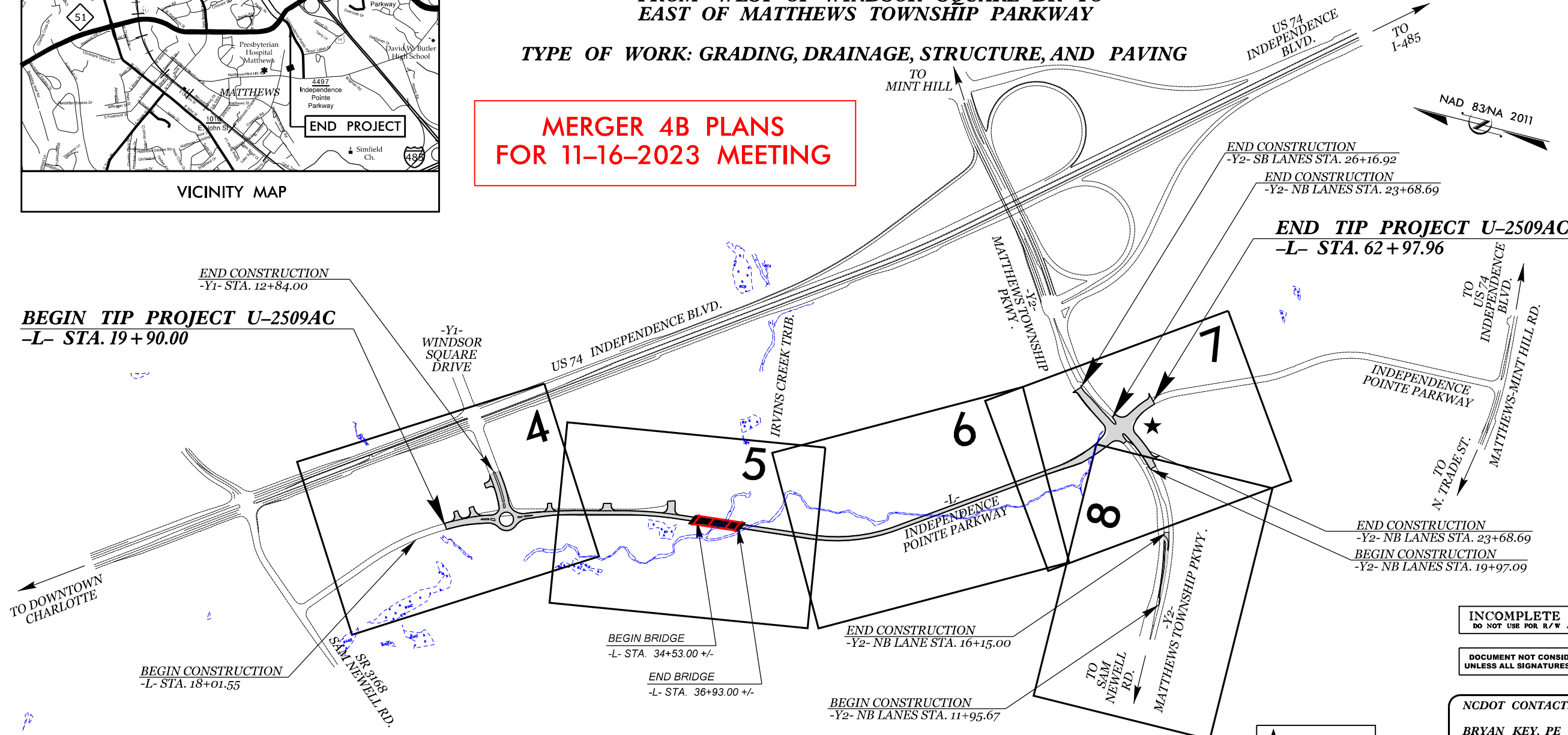
TYPE OF WORK: GRADING, DRAINAGE, STRUCTURE, AND PAVING

**MERGER 4B PLANS
FOR 11-16-2023 MEETING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2509AC	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38965.1.9		PE	
		RW	
		UTIL	



TIP PROJECT: U-2509AC



END CONSTRUCTION
-Y1- STA. 12+84.00

BEGIN TIP PROJECT U-2509AC
-L- STA. 19+90.00

END CONSTRUCTION
-Y2- SB LANES STA. 26+16.92

END CONSTRUCTION
-Y2- NB LANES STA. 23+68.69

END TIP PROJECT U-2509AC
-L- STA. 62+97.96

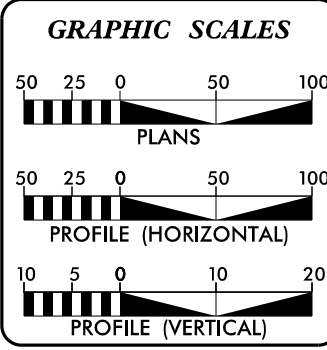
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF MATTHEWS.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NCDOT CONTACT:
BRYAN KEY, PE
TEAM LEAD
PROJECT MANAGEMENT UNIT

CONTRACT:



DESIGN DATA

ADT 2028 =	4,950
ADT 2048 =	6,430
K =	10%
D =	75%
T =	3% (1% TTST & 2% DUAL)
V =	40 MPH
FUNC. CLASS. =	LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-2509AC	=	0.770 mile
LENGTH STRUCTURES TIP PROJECT U-2509AC	=	0.046 mile
TOTAL LENGTH TIP PROJECT U-2509AC	=	0.816 mile

Prepared For:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

By:
TGS ENGINEERS
706 HILLSBOROUGH ST
SUITE 200
RALEIGH, NC 27603

PH (919) 773-8887
CORP. LICENSE NO.: C-0275

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 31, 2024

LETTING DATE:
JULY 18, 2028

BURKE EVANS, PE
PROJECT ENGINEER

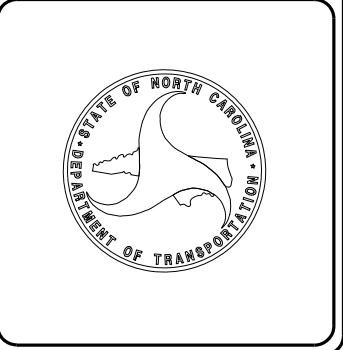
NATHAN PUERTOLLANO
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



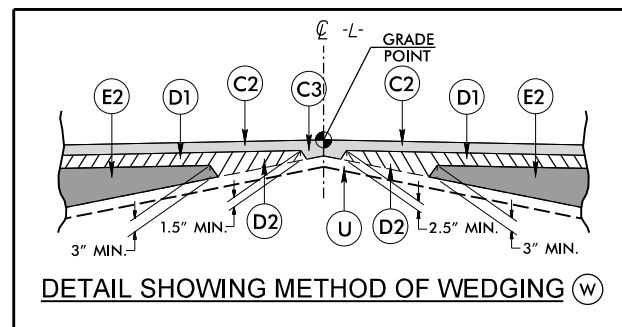
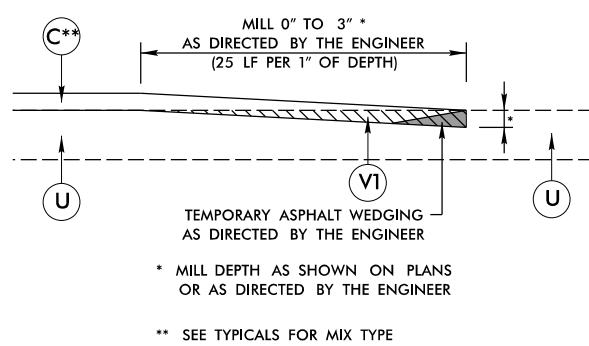
10/24/2023 X:\NCDOT\U-2509AC\Drainage\Redline for 4B\U2509AC_RDY_TSH.dgn User:zrichard

PAVEMENT SCHEDULE

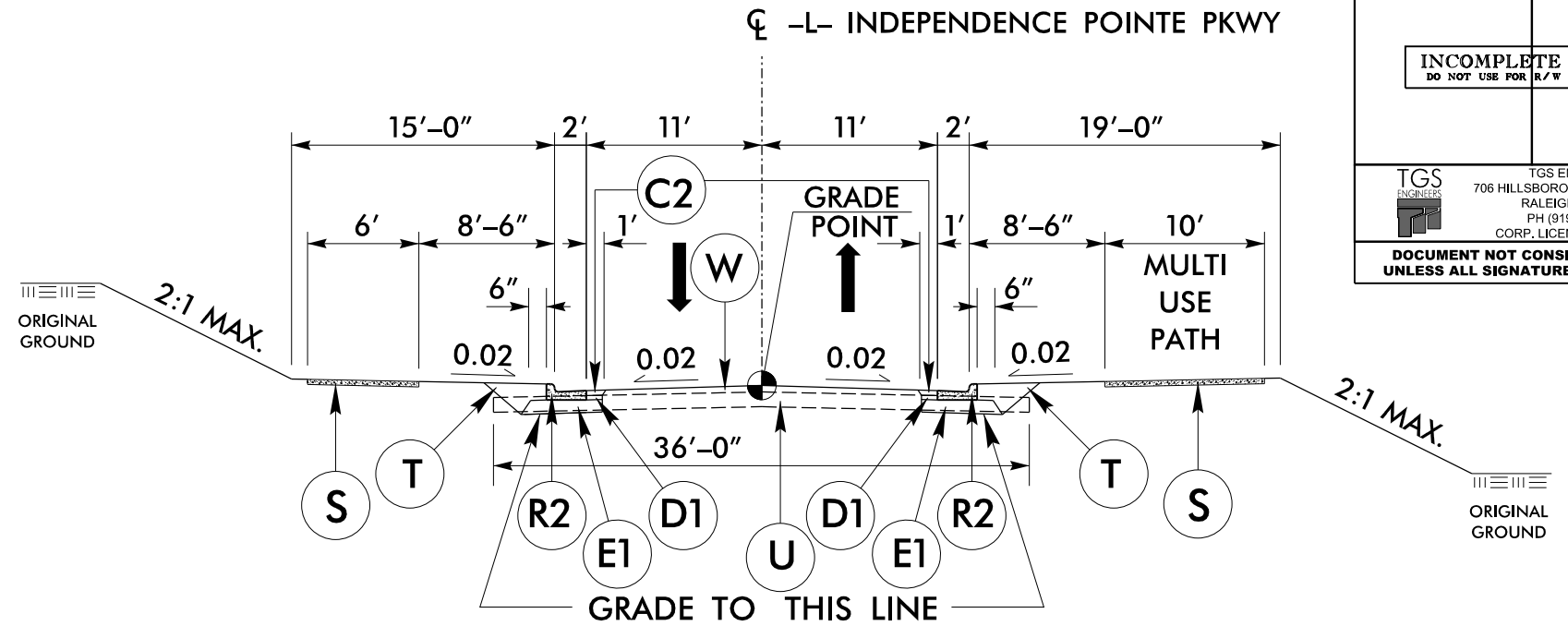
FINAL PAVEMENT DESIGN: TO BE DETERMINED	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS PER SQUARE YARD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS PER SQUARE YARD IN EACH OF TWO LAYERS.
C3	PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD.
D2	PROP. VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS PER SQUARE YARD.
E2	PROP. VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
J1	PROPOSED 6" AGGREGATE BASE COURSE
R1	1'-6" CONCRETE CURB & GUTTER
R2	2'-6" CONCRETE CURB & GUTTER
R3	2'-9" CONCRETE CURB & GUTTER
R4	8" x 12" CONCRETE CURB
R5	8" CONCRETE TRUCK APRON
R6	4" CONCRETE ISLAND COVER
R7	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET)

PAVEMENT EDGE SLOPES AND TRENCH SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

MILLED BUTT JOINT TIE-IN DETAIL (PROFILE)

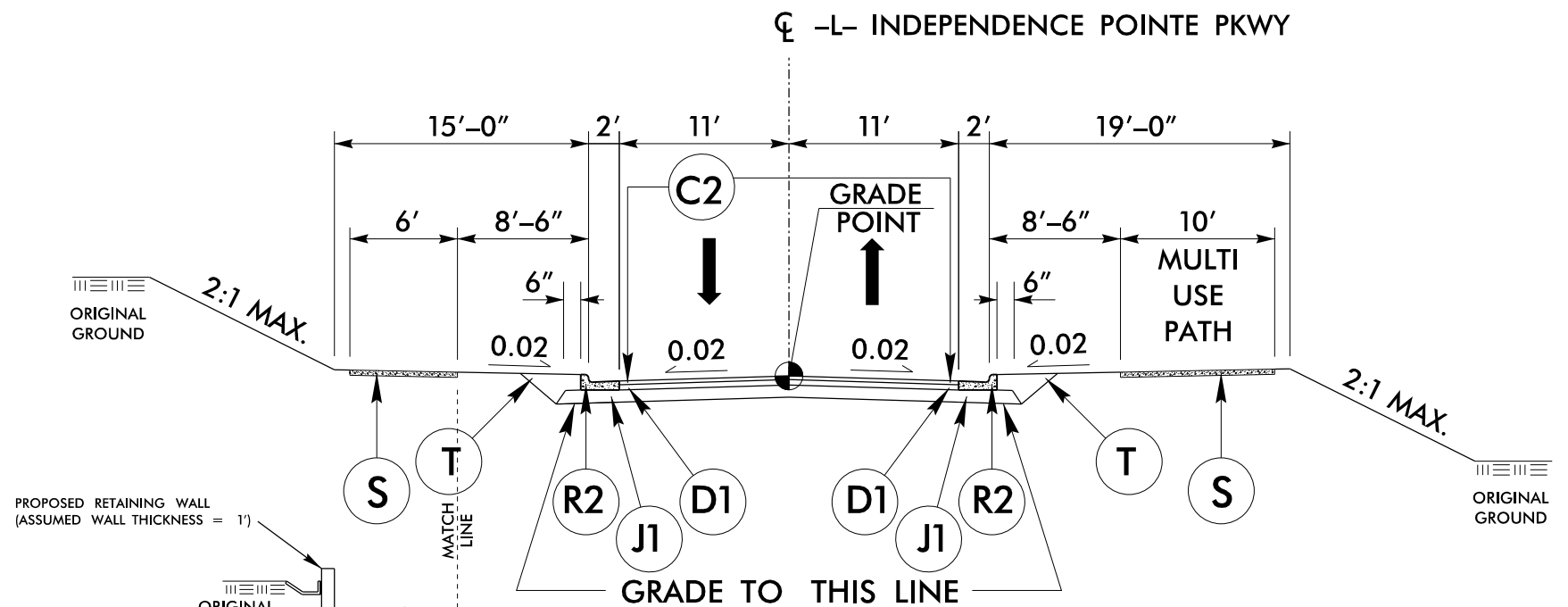


PROJECT REFERENCE NO. U-2509AC	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1

FROM -L- STA. 19+90.00 TO STA. 22+81.70
FROM -L- STA. 24+11.21 TO STA. 31+00.00



TYPICAL SECTION NO. 2A

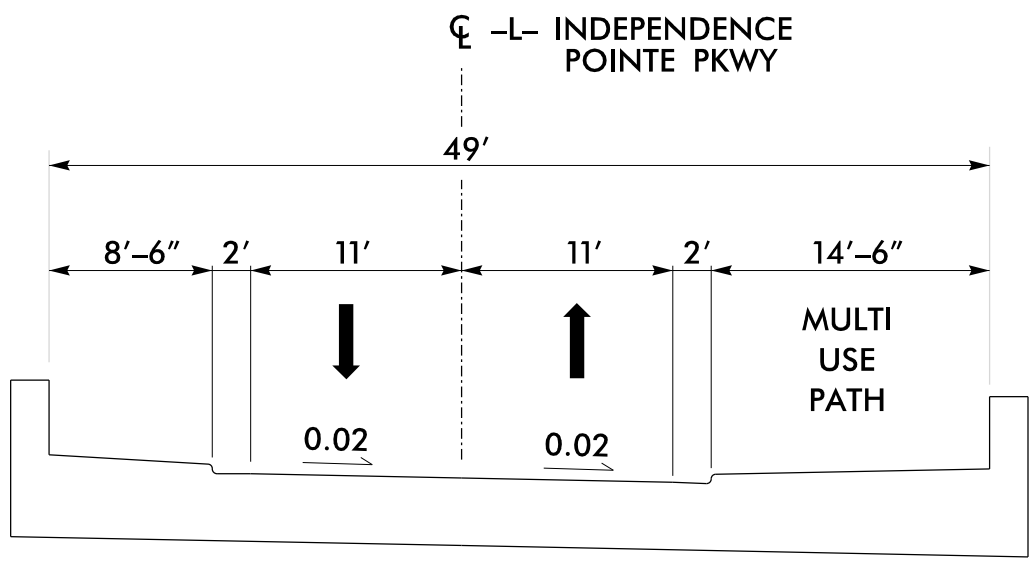
USE TYPICAL SECTION NO. 2A IN CONJUNCTION WITH TYPICAL SECTION NO. 2:
FROM -L- STA. 48+60.00 TO STA. 57+69.00

TYPICAL SECTION NO. 2

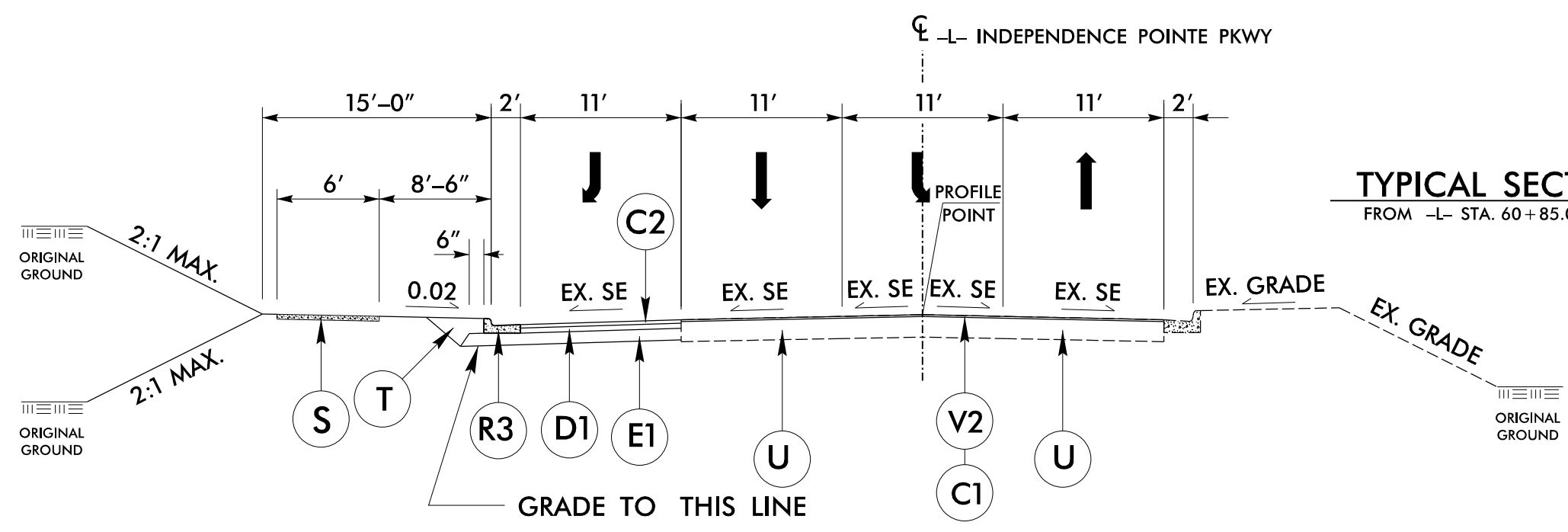
FROM -L- STA. 31+00.00 TO STA. 34+54.00 +/- (BEGIN BRIDGE)
FROM -L- STA. 36+92.00 +/- (END BRIDGE) TO STA. 60+06.37

10/24/2023
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 User:richard

PROJECT REFERENCE NO. <i>U-2509AC</i>	SHEET NO. <i>2A-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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TGS ENGINEERS <small>706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 3
 FROM -L- STA. 34+54.00 TO STA. 36+92.00




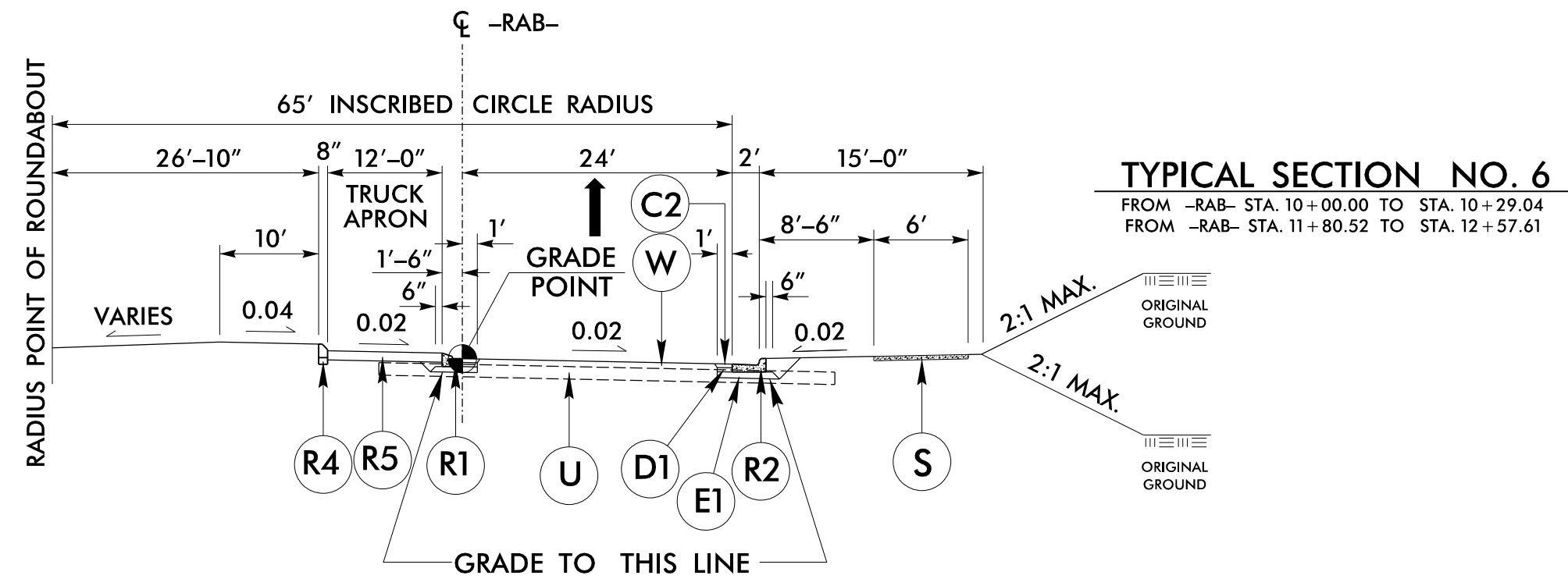
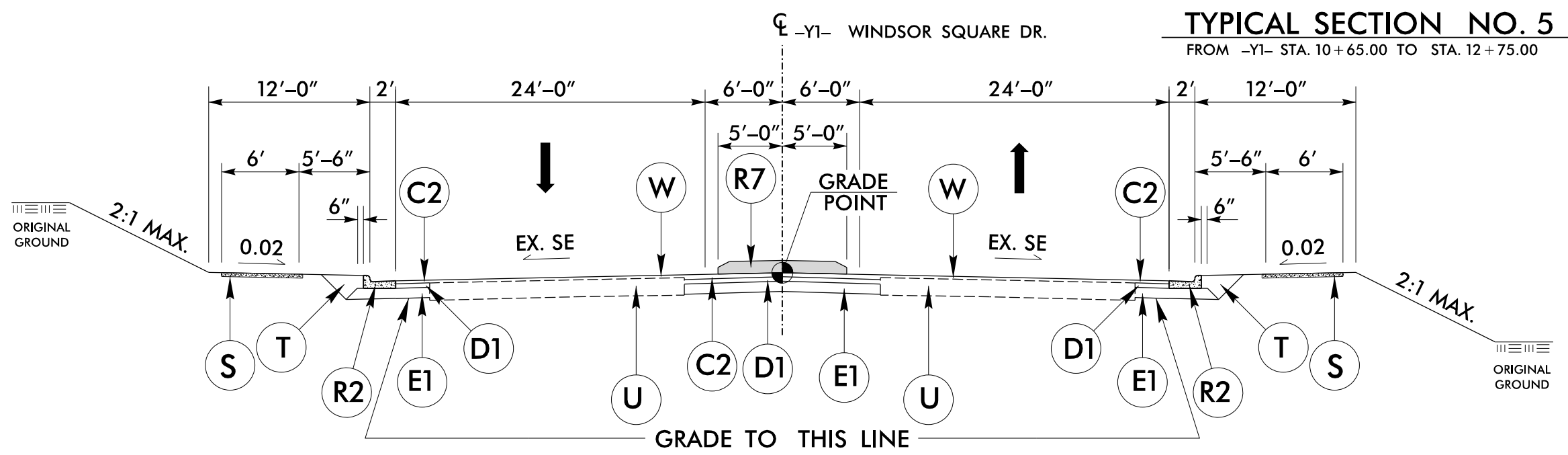
TYPICAL SECTION NO. 4
 FROM -L- STA. 60+85.00 TO STA. 62+97.96

C1	1.5" S9.5C
C2	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0B
J1	6" ABC
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
R4	8"x18" CONC. CURB
R5	8" CONC. TRUCK APRON
R6	4" CONC. ISL. COVER
R7	5" MONO.CONC. ISL.
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INC. MILLING
V2	MILLING, 1.5" DEPTH
W	WEDGING

PAVEMENT EDGESLOPES 1:1 UNLESS NOTED OTHERWISE

8/22/99

PROJECT REFERENCE NO. U-2509AC	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

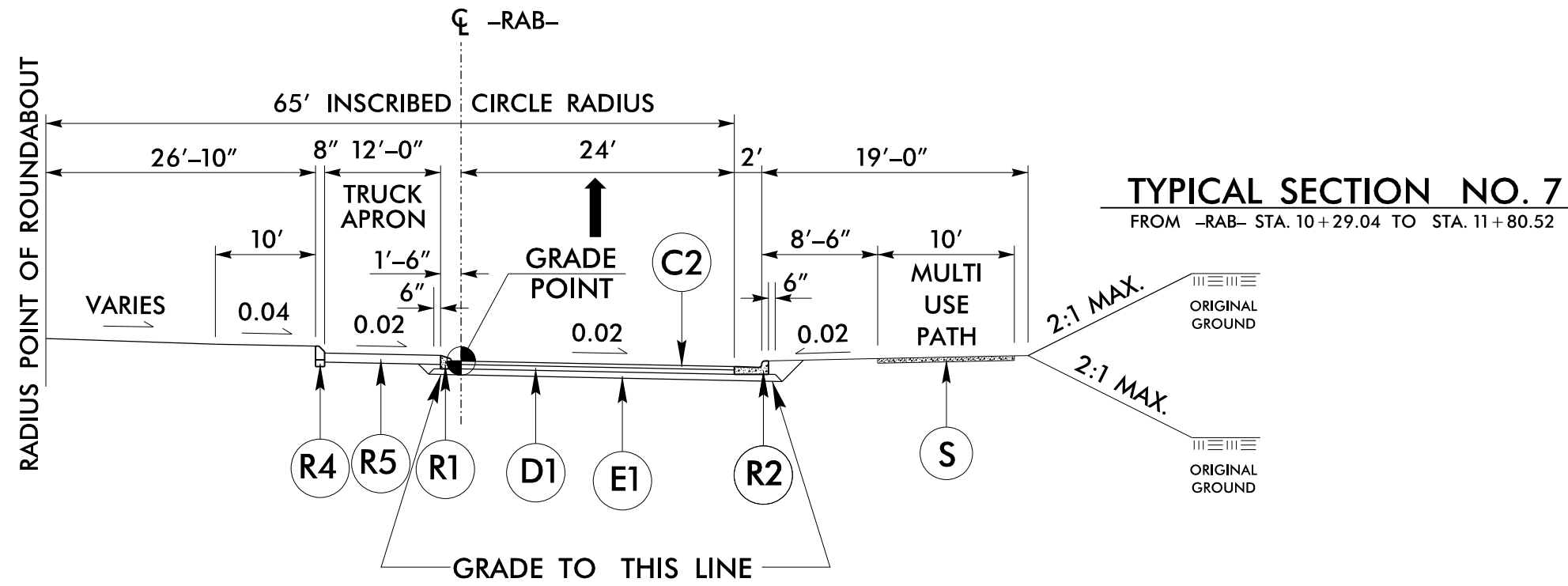


C1	1.5" S9.5C
C2	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0B
J1	6" ABC
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
R4	8"x18" CONC. CURB
R5	8" CONC. TRUCK APRON
R6	4" CONC. ISL. COVER
R7	5" MONO.CONC. ISL.
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INC. MILLING
V2	MILLING, 1.5" DEPTH
W	WEDGING

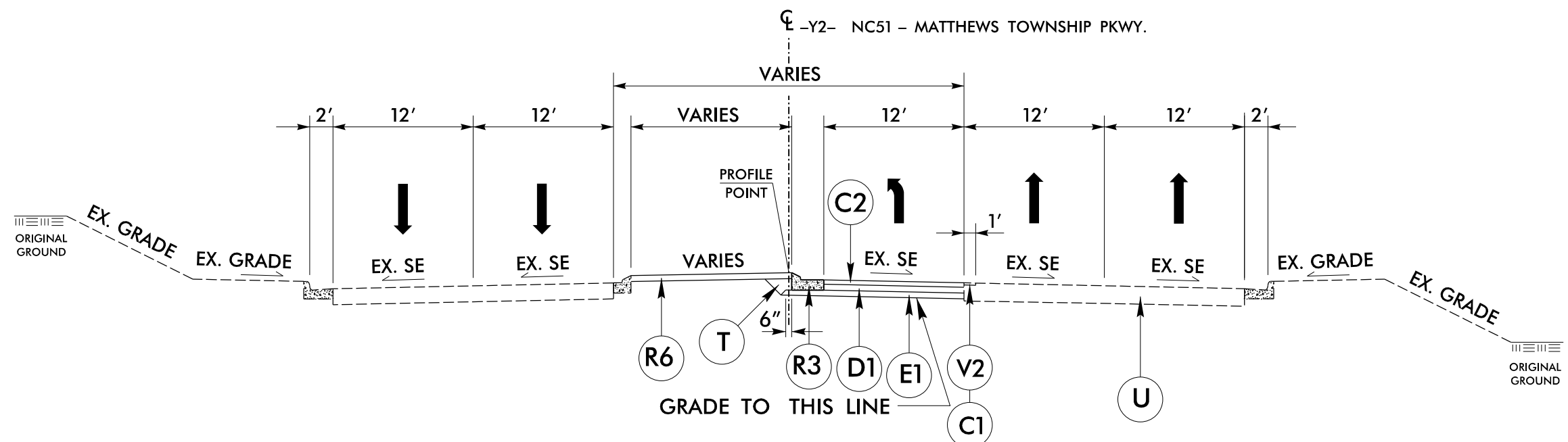
PAVEMENT EDGESLOPES 1:1 UNLESS NOTED OTHERWISE

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10/24/2023
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 User:richard



TYPICAL SECTION NO. 7
 FROM -RAB- STA. 10+29.04 TO STA. 11+80.52



TYPICAL SECTION NO. 8
 FROM -Y2- STA. 11+95.67 TO STA. 15+98.32

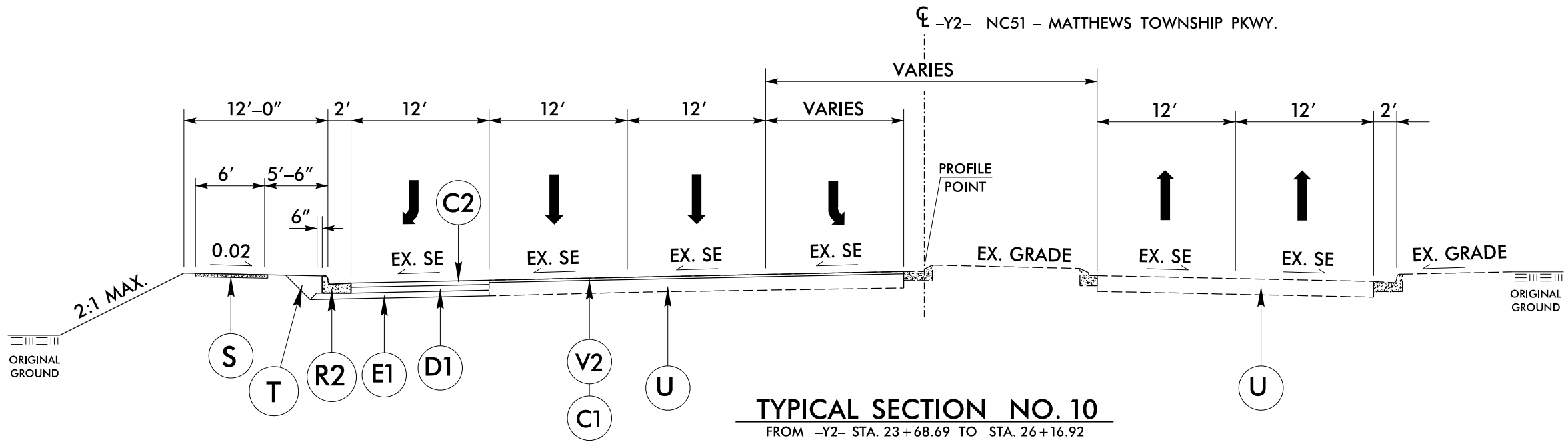
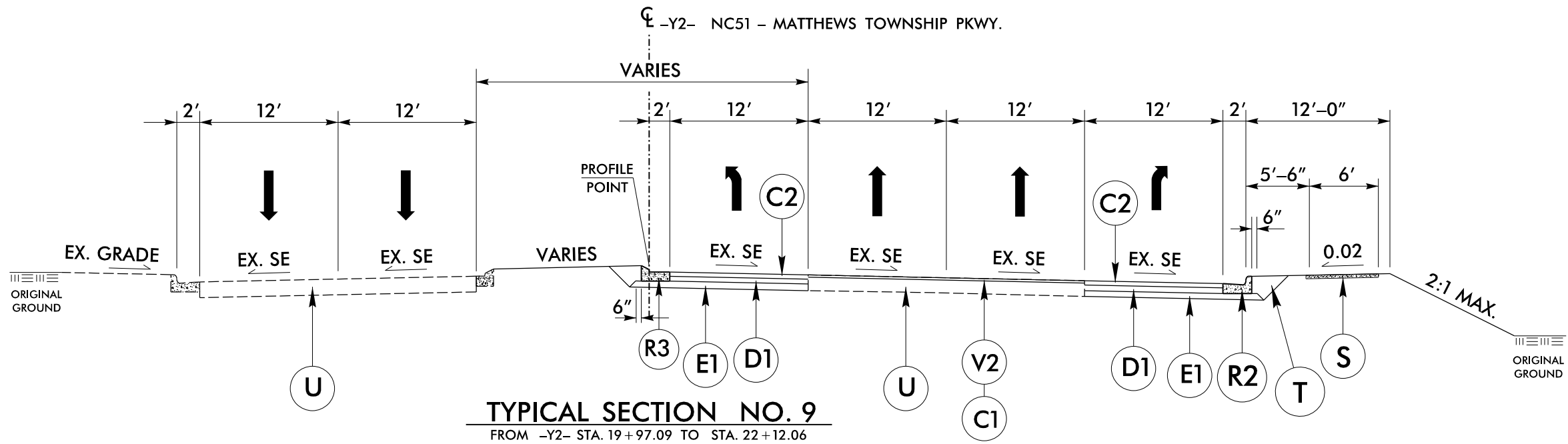
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

C1	1.5" S9.5C
C2	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0B
J1	6" ABC
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
R4	8"x18" CONC. CURB
R5	8" CONC. TRUCK APRON
R6	4" CONC. ISL. COVER
R7	5" MONO.CONC. ISL.
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INC. MILLING
V2	MILLING, 1.5" DEPTH
W	WEDGING

PAVEMENT EDGESLOPES 1:1 UNLESS NOTED OTHERWISE

10/24/2023
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 User:rbard

PROJECT REFERENCE NO. <i>U-2509AC</i>	SHEET NO. <i>2A-5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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TGS ENGINEERS <small>706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

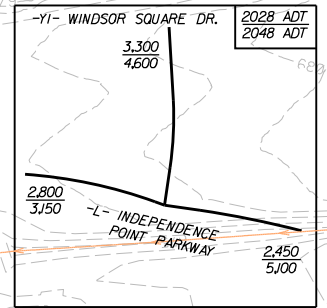
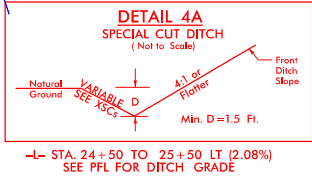


C1	1.5" S9.5C
C2	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0B
J1	6" ABC
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
R4	8"x18" CONC. CURB
R5	8" CONC. TRUCK APRON
R6	4" CONC. ISL. COVER
R7	5" MONO.CONC. ISL.
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	INC. MILLING
V2	MILLING, 1.5" DEPTH
W	WEDGING

PAVEMENT EDGESLOPES 1:1 UNLESS NOTED OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
U-2509AC	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS	TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

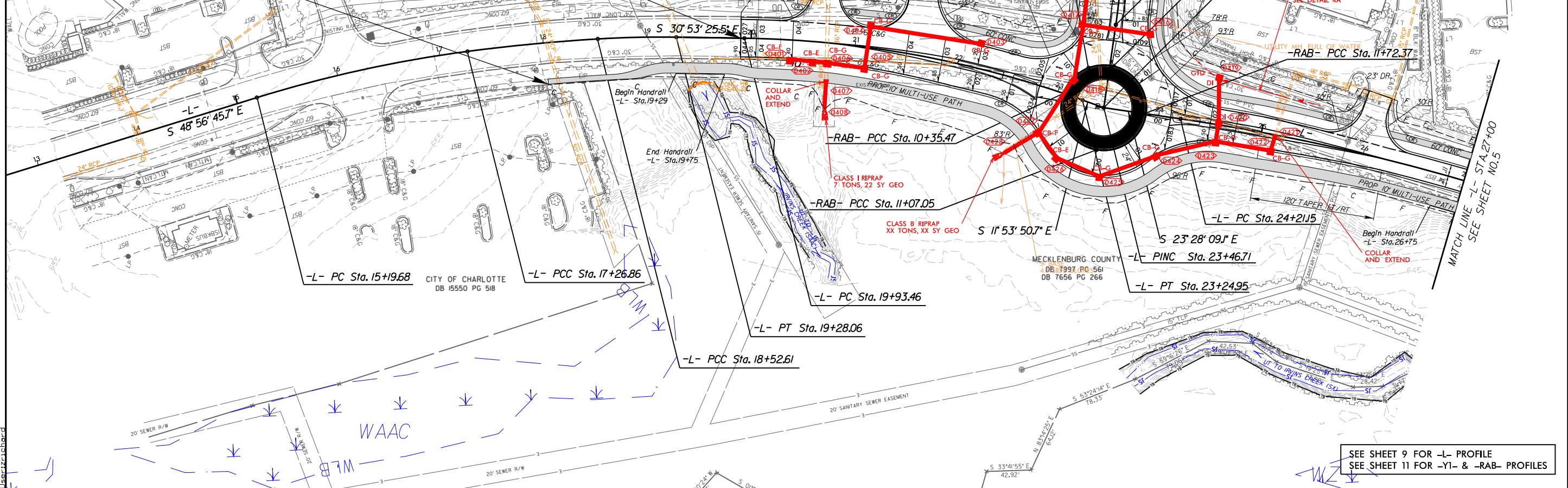
PI Sta 16+23.52 Δ = 9° 43' 47.6" (RT) D = 4' 41' 47.0" L = 207.18' T = 103.84' R = 1,220.00'	PI Sta 17+89.76 Δ = 4° 00' 09.3" (RT) D = 3' 10' 59.2" L = 125.74' T = 62.90' R = 1,800.00'	PI Sta 18+90.35 Δ = 4° 19' 23.6" (RT) D = 5' 43' 46.5" L = 75.45' T = 37.75' R = 1,000.00'
PI Sta 21+60.74 Δ = 16° 59' 34.8" (RT) D = 5' 43' 46.5" L = 331.49' T = 167.28' R = 1,000.00'	PI Sta 25+87.29 Δ = 9° 29' 50.9" (RT) D = 2' 51' 53.2" L = 331.52' T = 166.14' R = 2,000.00'	



PI Sta 10+18.93 Δ = 49° 33' 49.0" (LT) D = 139° 44' 44.9" L = 35.47' T = 18.93' R = 41.00'	PI Sta 10+84.36 Δ = 100° 02' 15.6" (LT) D = 139° 44' 44.9" L = 71.59' T = 48.89' R = 41.00'	PI Sta 11+48.98 Δ = 91° 16' 31.3" (LT) D = 139° 44' 44.9" L = 65.32' T = 41.92' R = 41.00'
PI Sta 12+42.14 Δ = 119° 07' 24.2" (LT) D = 139° 44' 44.9" L = 85.24' T = 69.78' R = 41.00'		
PI Sta 11+50.58 Δ = 11° 26' 18.3" (LT) D = 8' 11' 06.4" L = 139.75' T = 70.11' R = 700.00'		

BEGIN TIP PROJECT U-2509AC
-L- STA. 19+90.00

BEGIN CONSTRUCTION U-2509AC
-L- STA. 18+01.55



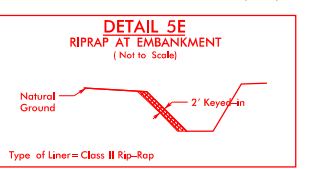
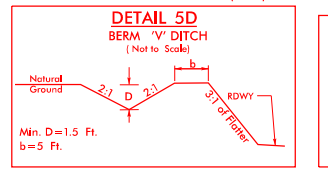
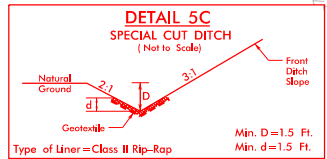
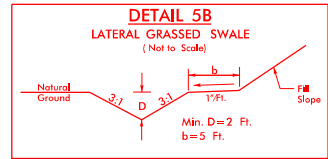
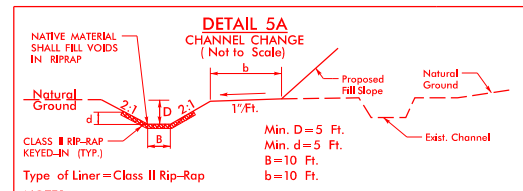
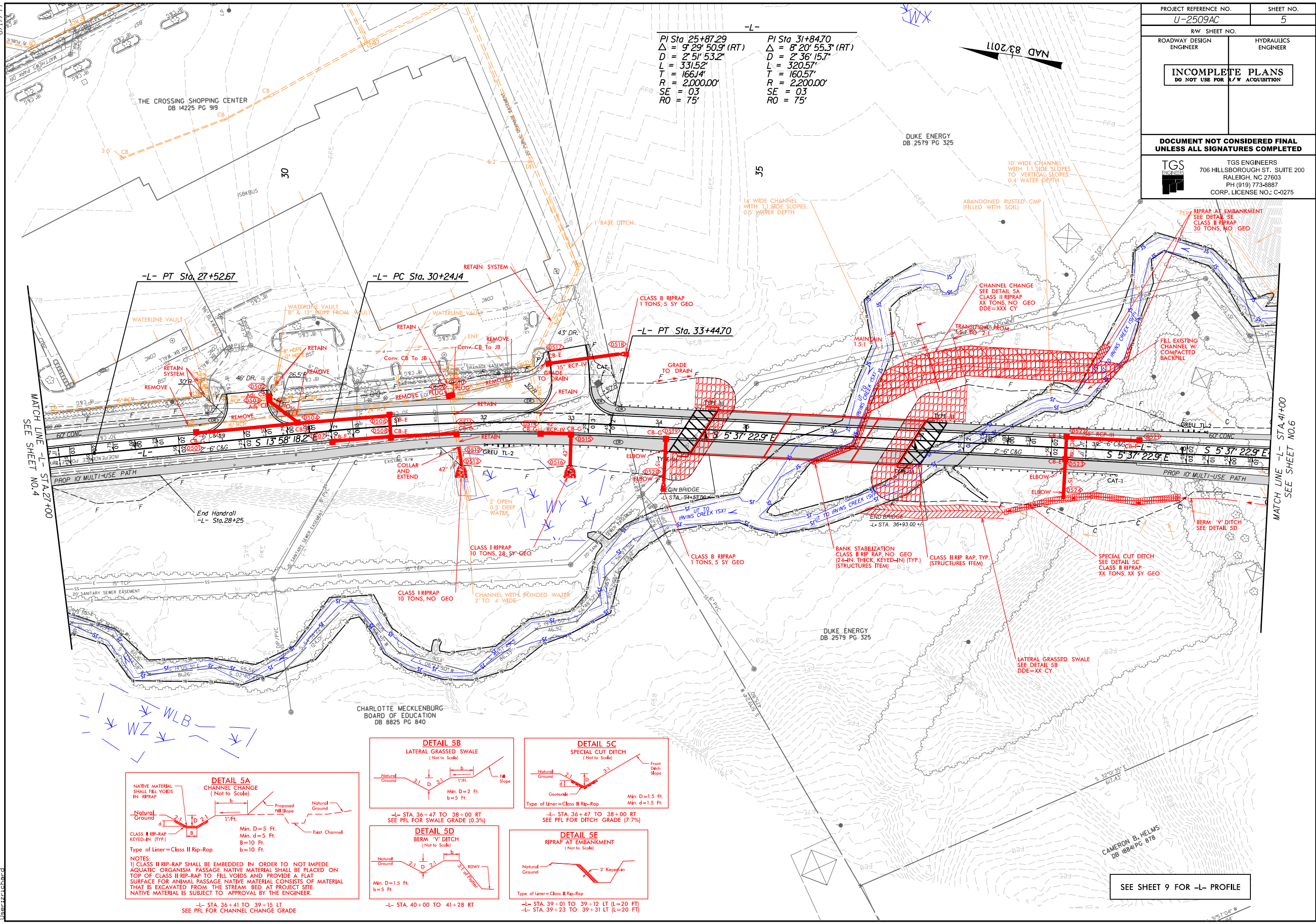
SEE SHEET 9 FOR -L- PROFILE
SEE SHEET 11 FOR -YI- & -RAB- PROFILES

8/17/99
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User: r0707

PROJECT REFERENCE NO. U-2509AC		SHEET NO. 5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275			

$\Delta = 9^{\circ} 29' 50.9" (RT)$
 $D = 2^{\circ} 51' 53.2"$
 $L = 331.52'$
 $T = 166.4'$
 $R = 2,000.00'$
 $SE = 03'$
 $RO = 75'$

$\Delta = 8^{\circ} 20' 55.3" (RT)$
 $D = 2^{\circ} 36' 15.7"$
 $L = 320.57'$
 $T = 160.57'$
 $R = 2,200.00'$
 $SE = 03'$
 $RO = 75'$



NOTES:
 1) CLASS II RIP-RAP SHALL BE EMBEDDED IN ORDER TO NOT IMPEDE AQUATIC ORGANISM PASSAGE. NATIVE MATERIAL SHALL BE PLACED ON TOP OF CLASS II RIP-RAP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM BED AT PROJECT SITE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER.

-L- STA. 36+41 TO 39+15 LT
 SEE PFL FOR CHANNEL CHANGE GRADE

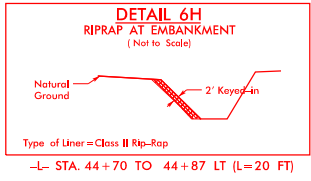
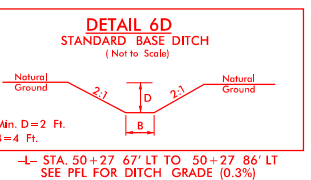
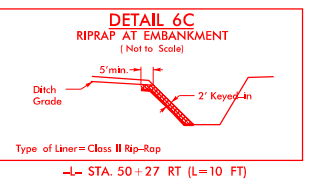
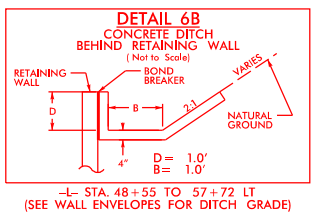
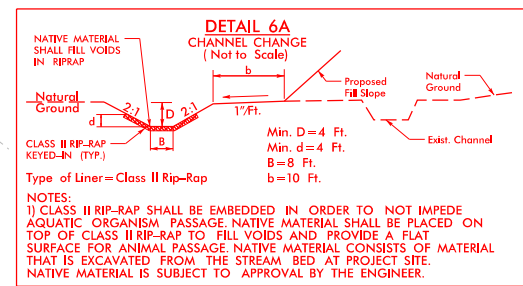
-L- STA. 40+00 TO 41+28 RT

-L- STA. 39+01 TO 39+12 LT (L=20 FT)
 -L- STA. 39+23 TO 39+31 LT (L=20 FT)

SEE SHEET 9 FOR -L- PROFILE

8/17/99
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 User: rsh

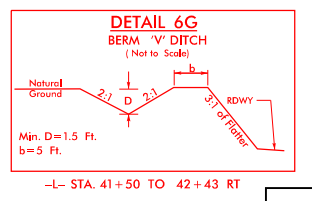
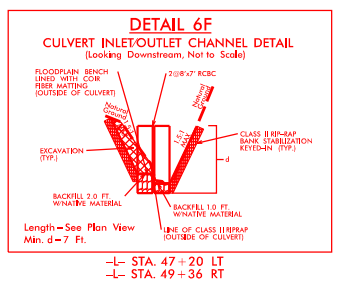
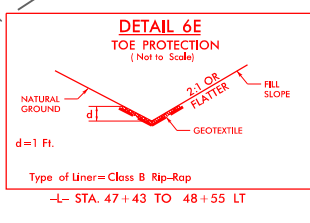
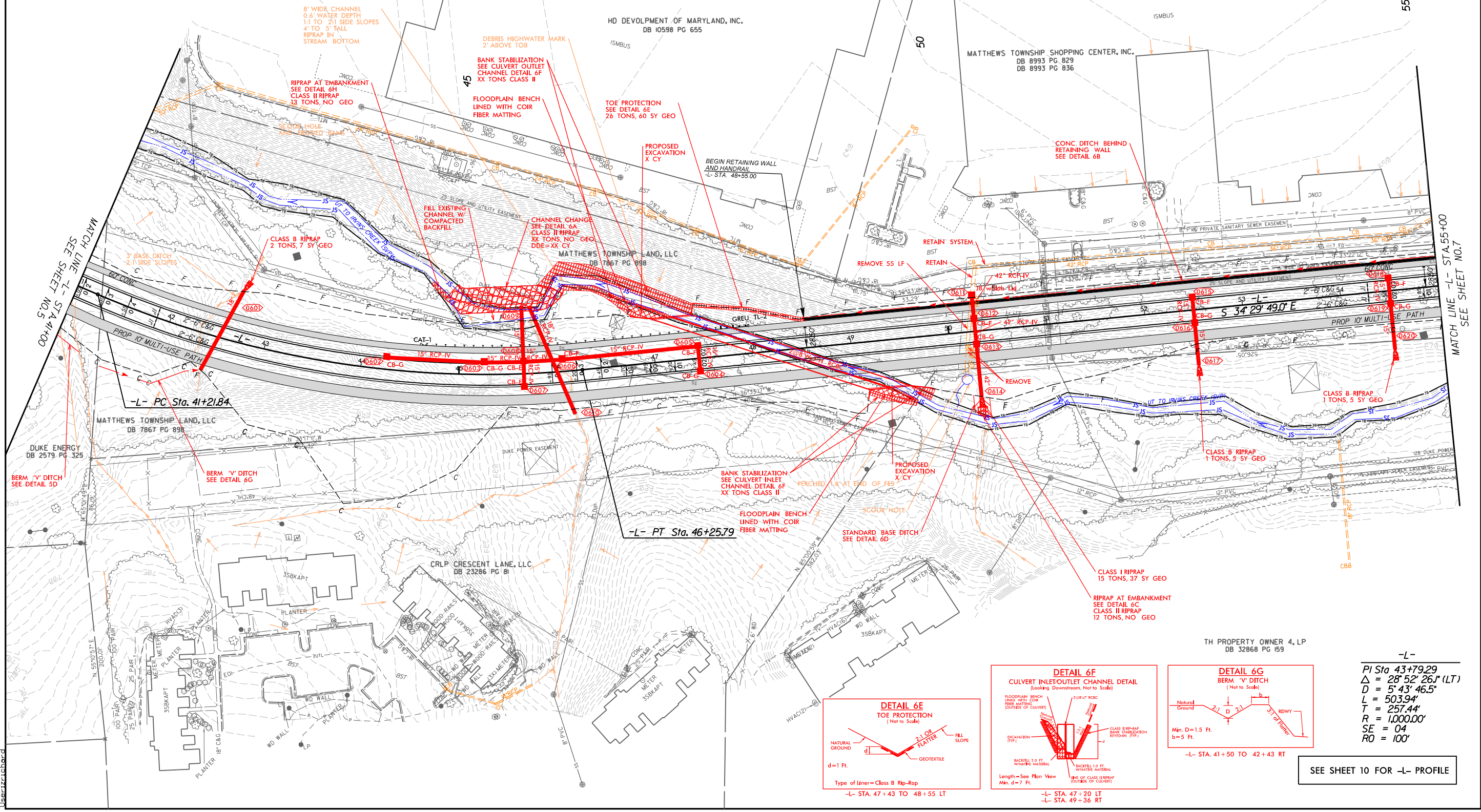
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 User: r000



PROJECT REFERENCE NO. U-2509AC SHEET NO. 6
 RW SHEET NO.
 ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER
INCOMPLETE PLANS
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-L-
 PI Sta 43+79.29
 Δ = 28° 52' 26" (LT)
 D = 5' 43" 46.5"
 L = 503.94'
 T = 257.44'
 R = 1,000.00'
 SE = 04
 RO = 100'

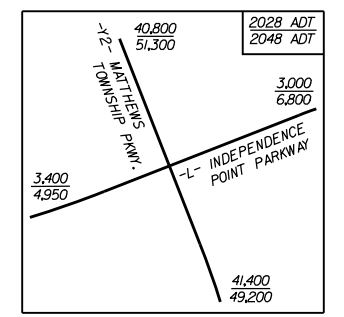
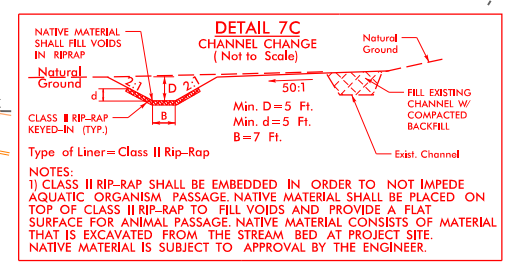
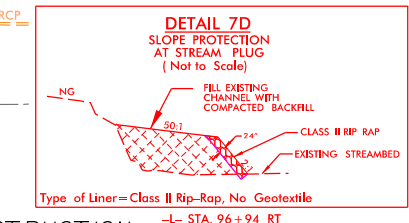
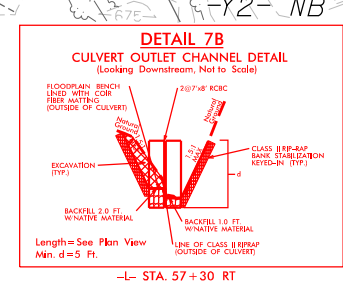
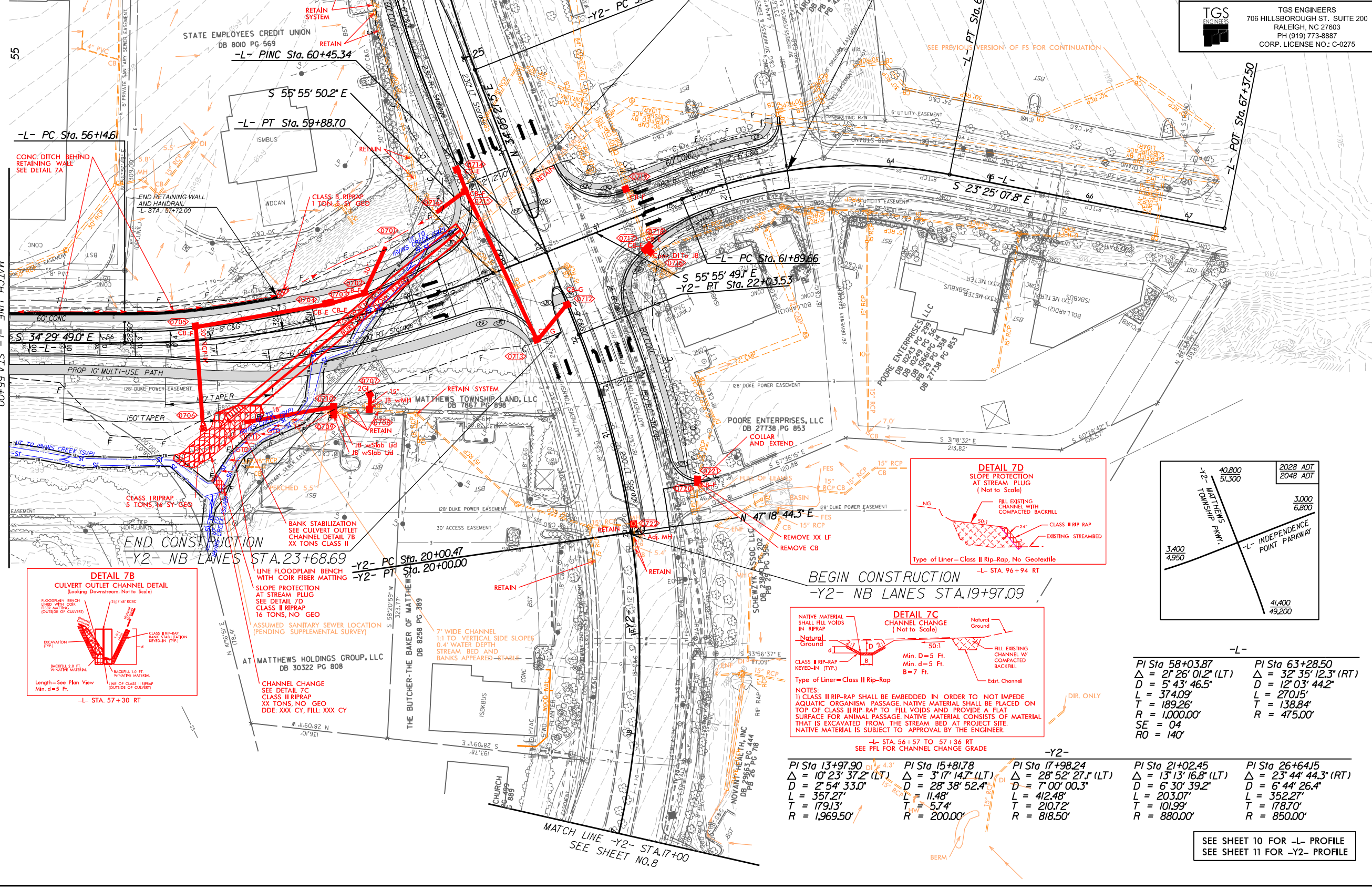
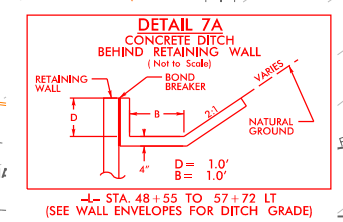
SEE SHEET 10 FOR -L- PROFILE

8.17.19
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 User: rchard

END CONSTRUCTION
 -Y2- SB LANES STA.26+16.92

END CONSTRUCTION
 -Y2- NB LANES STA.23+68.69

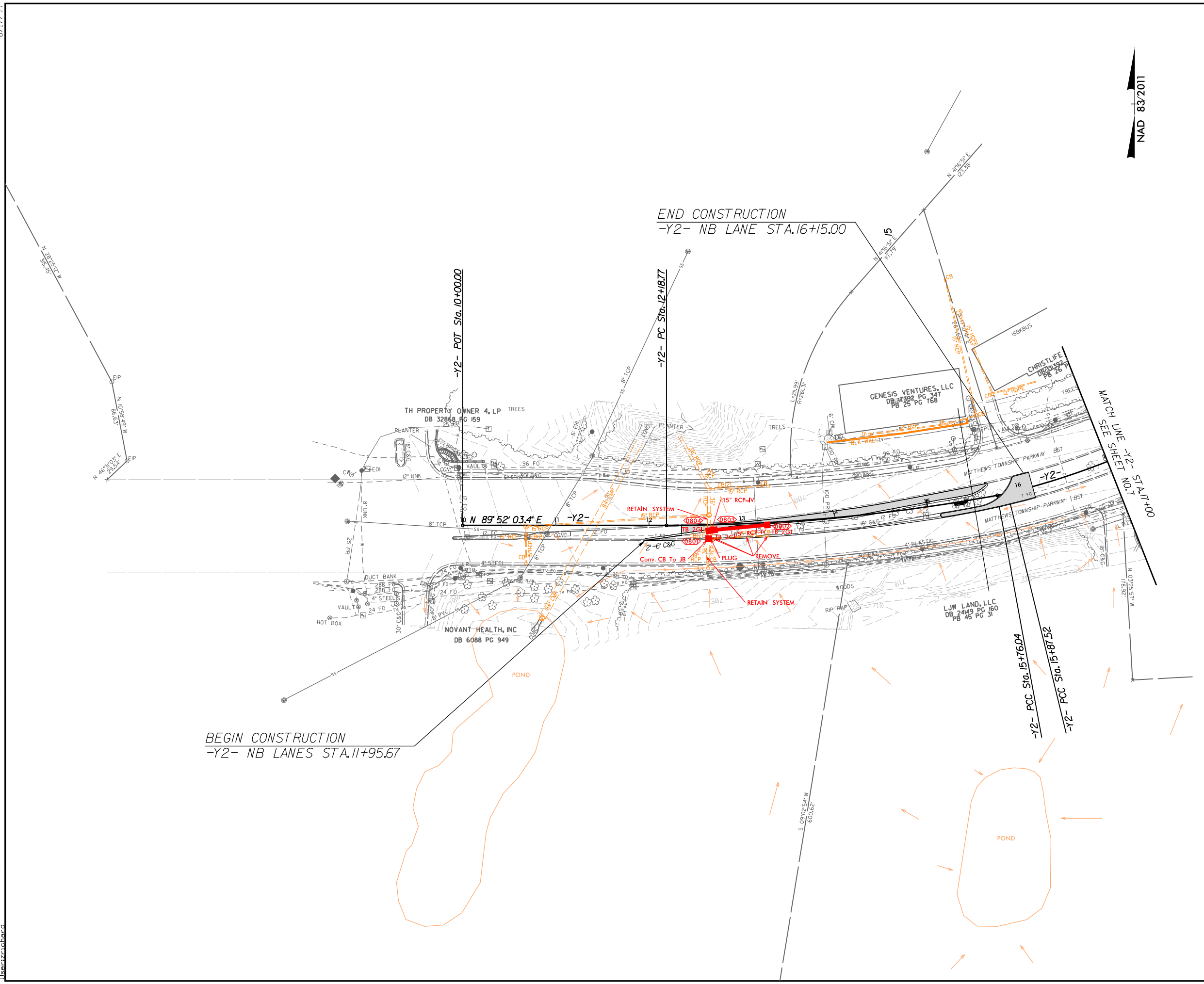
PROJECT REFERENCE NO. U-2509AC	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
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-L- STA. 56+57 TO 57+36 RT SEE PFL FOR CHANNEL CHANGE GRADE PI Sta 13+97.90 $\Delta = 10' 23' 37.2"$ (LT) $D = 2' 54' 33.0"$ $L = 357.27'$ $T = 179.13'$ $R = 1,969.50'$	PI Sta 15+81.78 $\Delta = 3' 17' 14.7"$ (LT) $D = 28' 38' 52.4"$ $L = 11.48'$ $T = 5.74'$ $R = 200.00'$	PI Sta 17+98.24 $\Delta = 28' 52' 27.1"$ (LT) $D = 7' 00' 00.3"$ $L = 412.48'$ $T = 210.72'$ $R = 818.50'$	PI Sta 21+02.45 $\Delta = 13' 13' 16.8"$ (LT) $D = 6' 30' 39.2"$ $L = 203.07'$ $T = 101.99'$ $R = 880.00'$	PI Sta 26+64.15 $\Delta = 23' 44' 44.3"$ (RT) $D = 6' 44' 26.4"$ $L = 352.27'$ $T = 178.70'$ $R = 850.00'$
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SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 11 FOR -Y2- PROFILE

8/17/99
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User: rchard



PROJECT REFERENCE NO. <i>U-2509AC</i>	SHEET NO. <i>8</i>
RW SHEET NO.	
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SEE SHEET 11 FOR -Y2- PROFILE

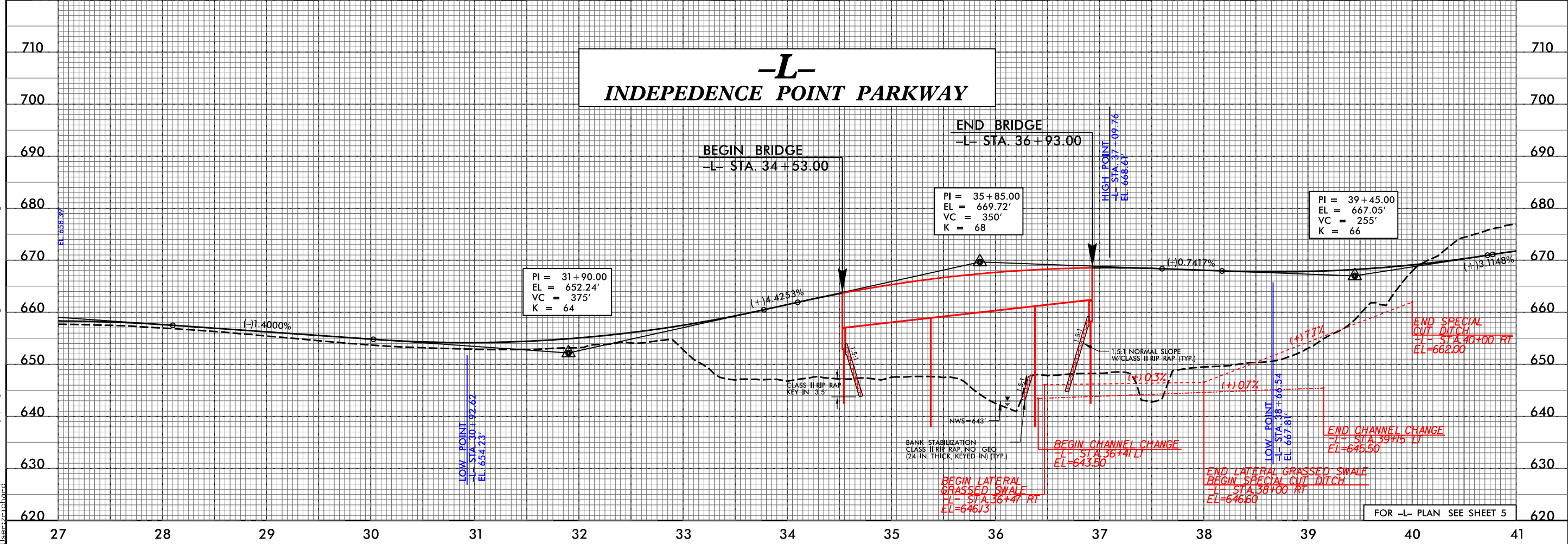
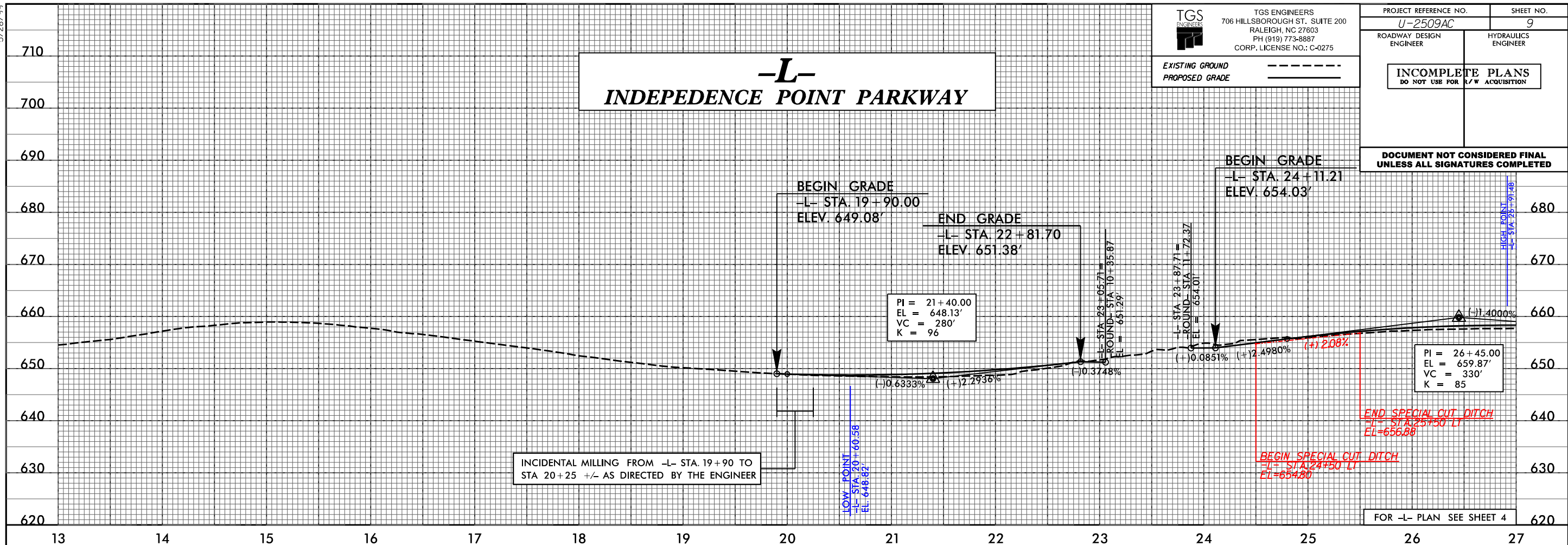
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EXISTING GROUND

PROPOSED GRADE



PROJECT REFERENCE NO. U-2509AC	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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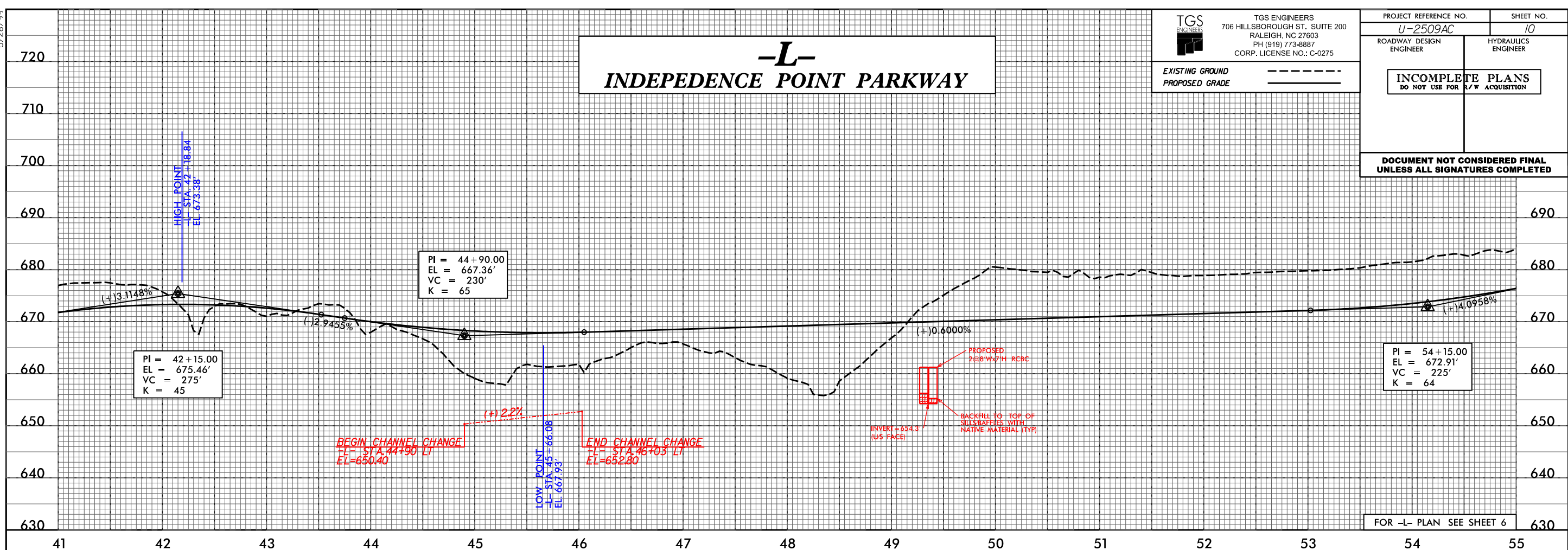
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EXISTING GROUND 
 PROPOSED GRADE 

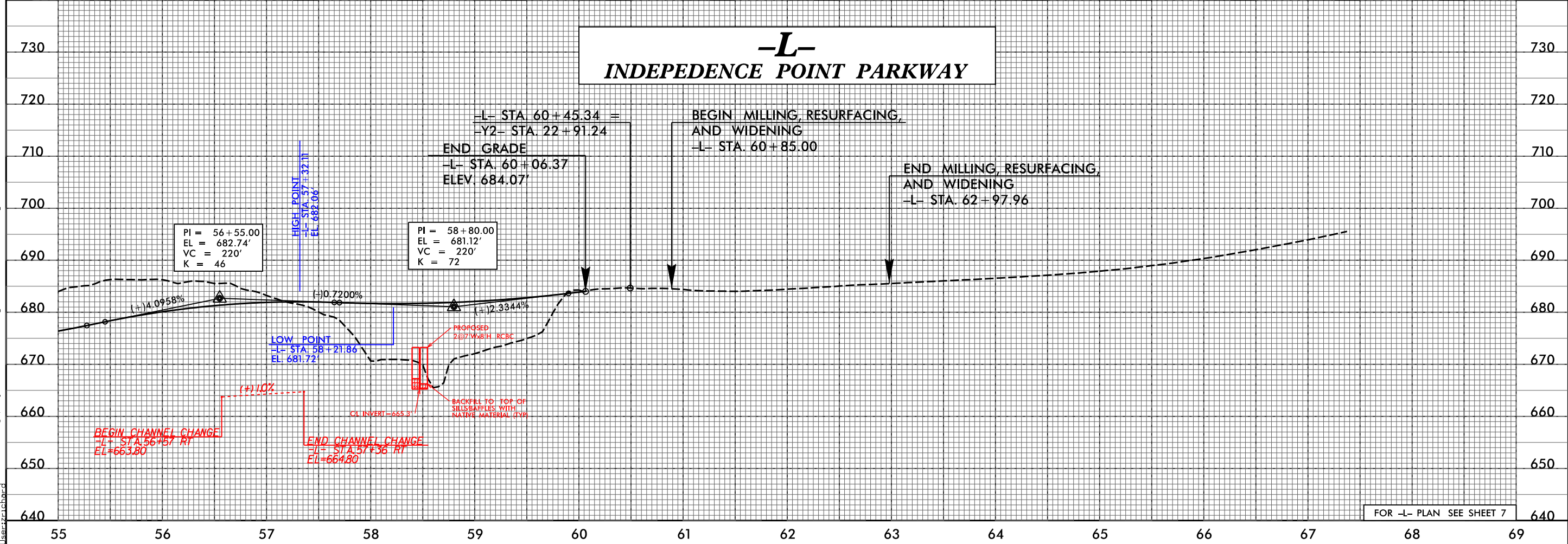
PROJECT REFERENCE NO. U-2509AC	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- INDEPEDENCE POINT PARKWAY



FOR -L- PLAN SEE SHEET 6

-L- INDEPEDENCE POINT PARKWAY



FOR -L- PLAN SEE SHEET 7

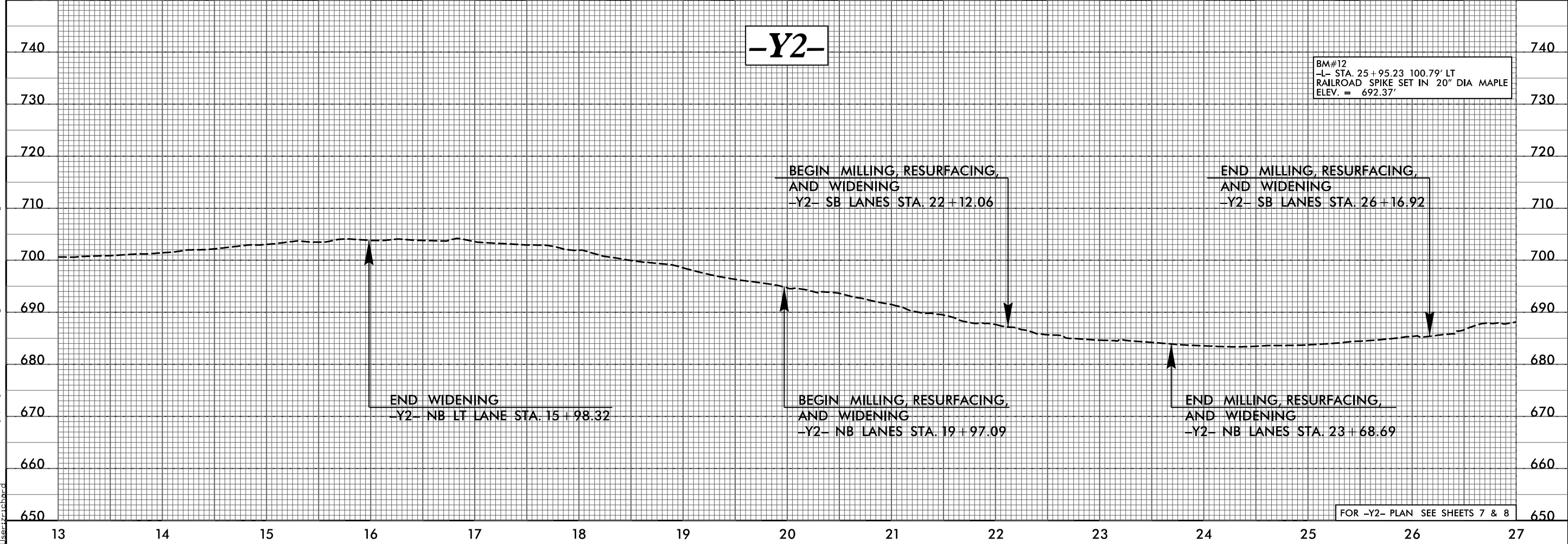
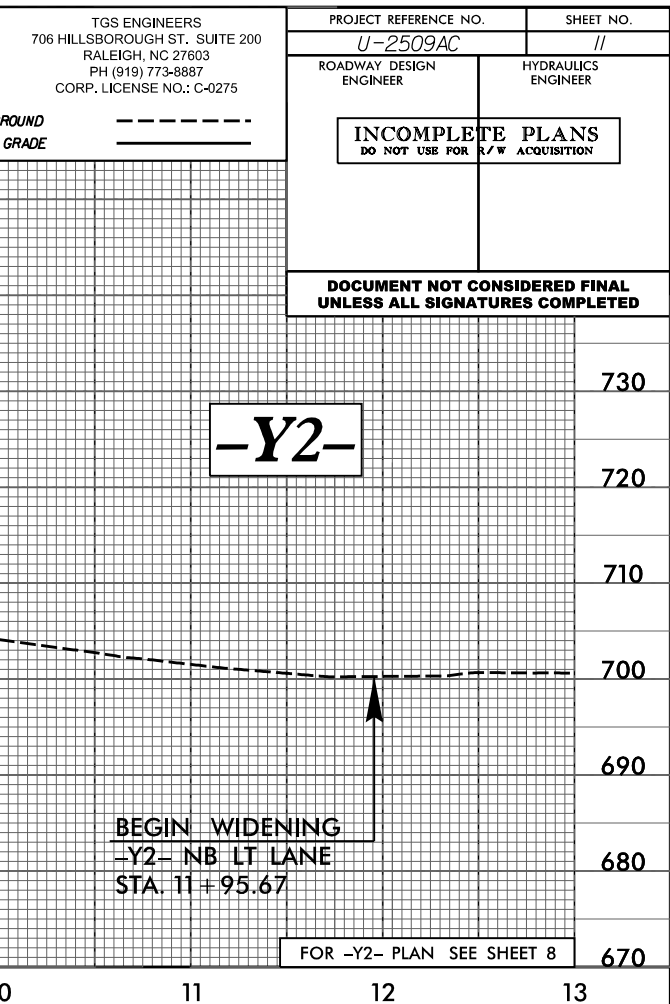
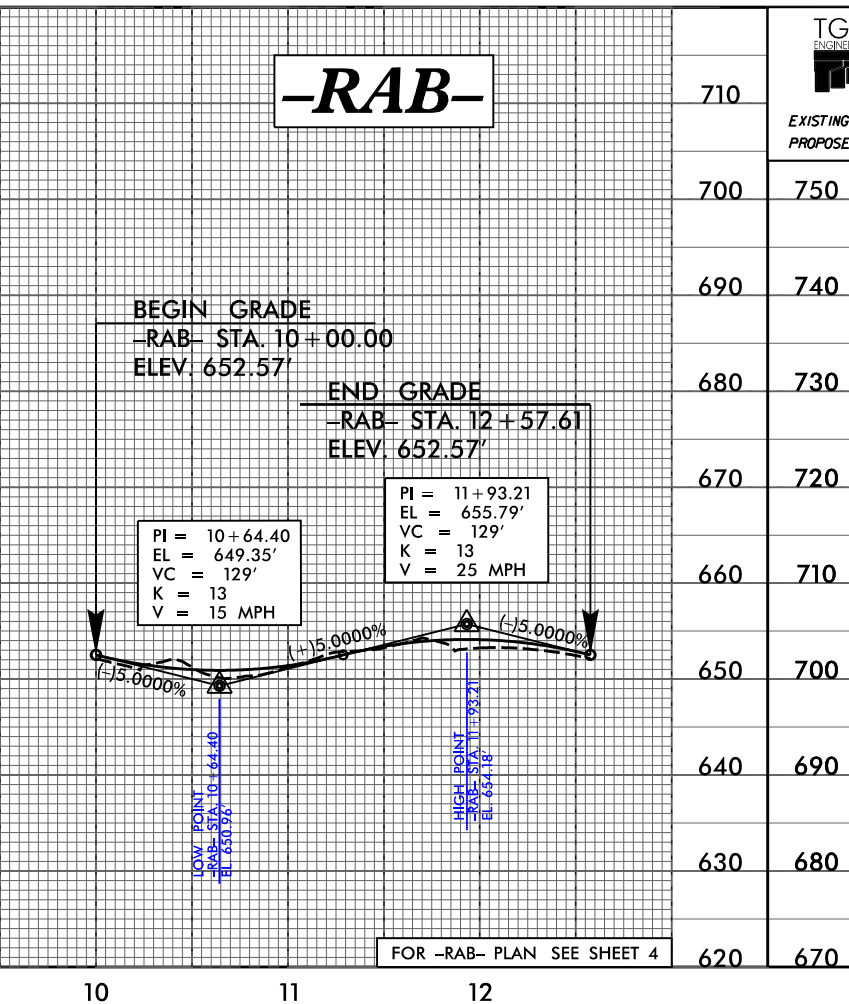
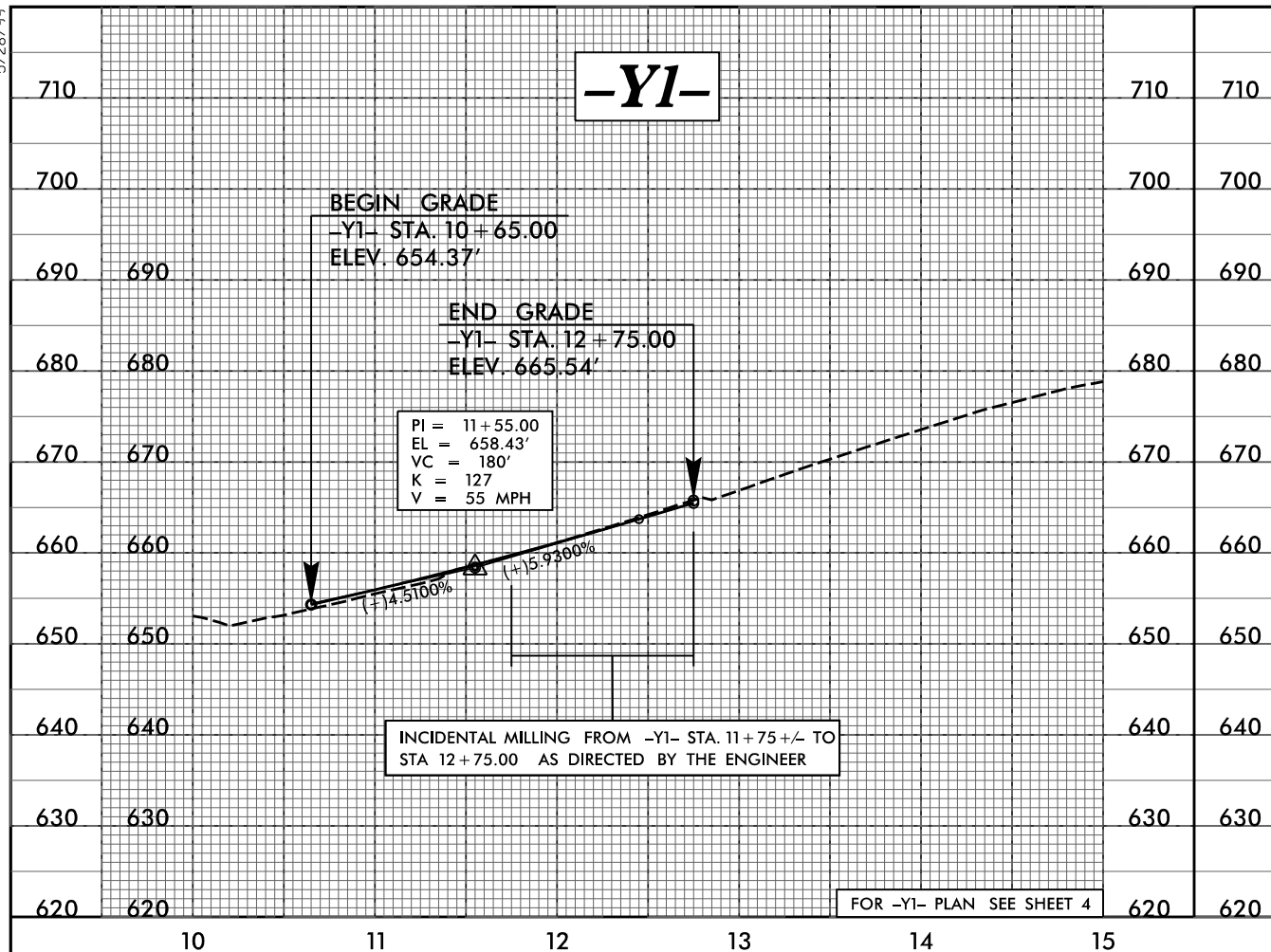
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EXISTING GROUND -----
 PROPOSED GRADE _____

PROJECT REFERENCE NO. U-2509AC	SHEET NO. 11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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