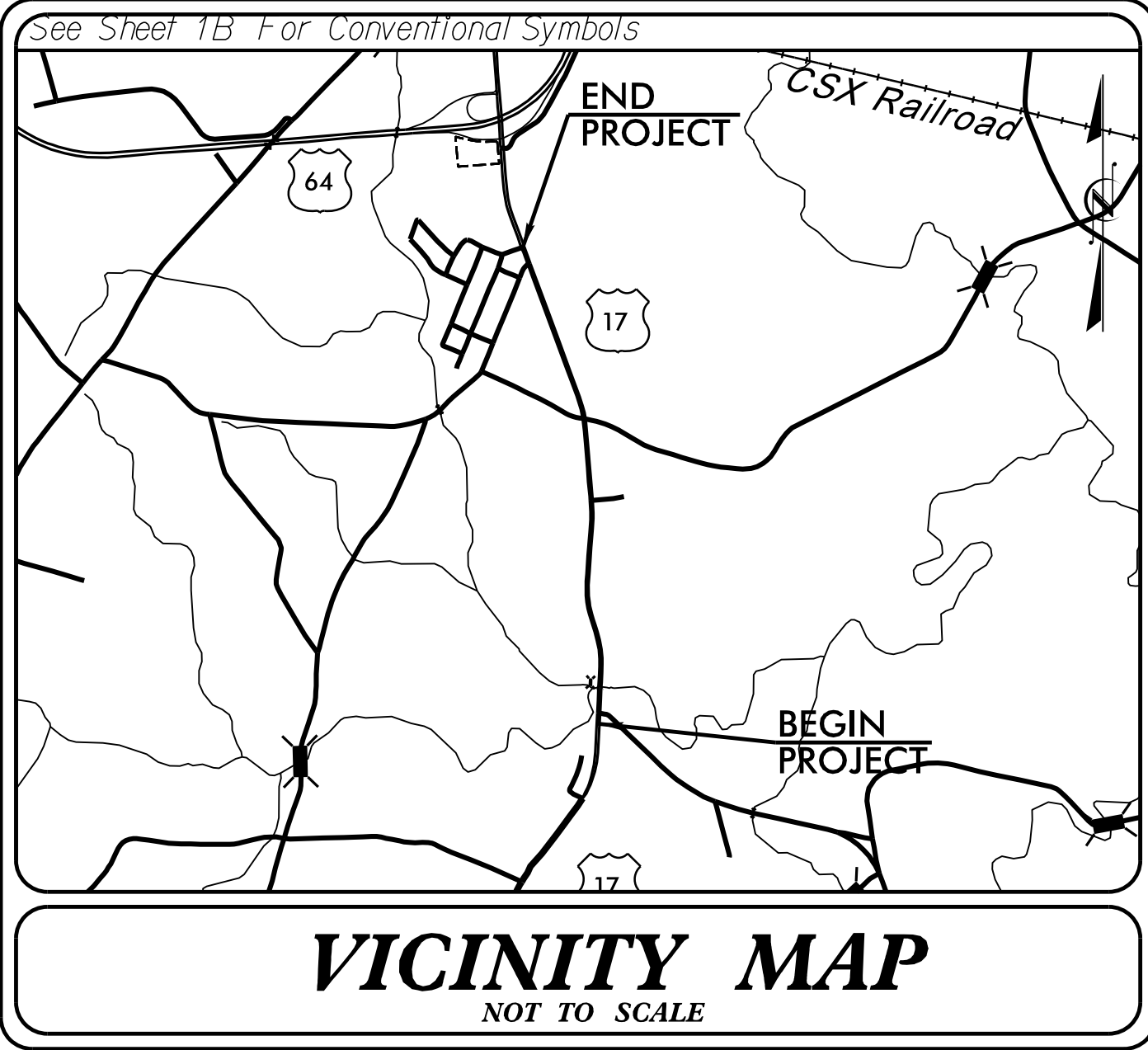


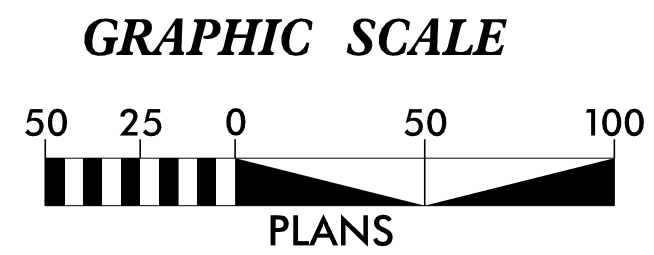
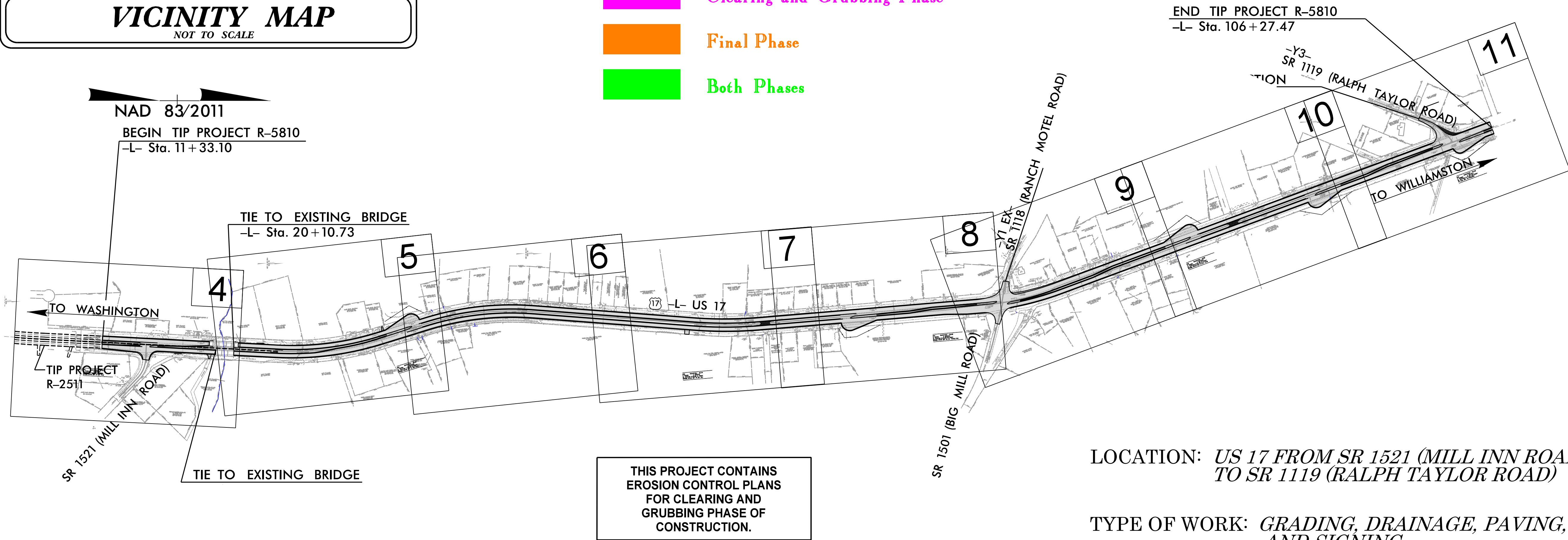
TIP PROJECT: R-5810



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
MARTIN COUNTY

- Clearing and Grubbing Phase
- Final Phase
- Both Phases

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5810	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46978.1.1		PE	
46978.2.1		ROW	
46978.3.1		CONST.	
46978.2.2		UTIL. RELOCATION	



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared in the Office of:
RUMMEL, KLEPPER & KAHL, LLP
8601 SIX FORKS ROAD, FORUM 1 SUITE 700
RALEIGH, NORTH CAROLINA 27615-3960
NC LICENSE NO. F-0112
1-888-521-4455 OR 919-878-9560

Designed by:
LUKE BOLAND **4401**
NAME LEVEL III CERTIFICATION NO.

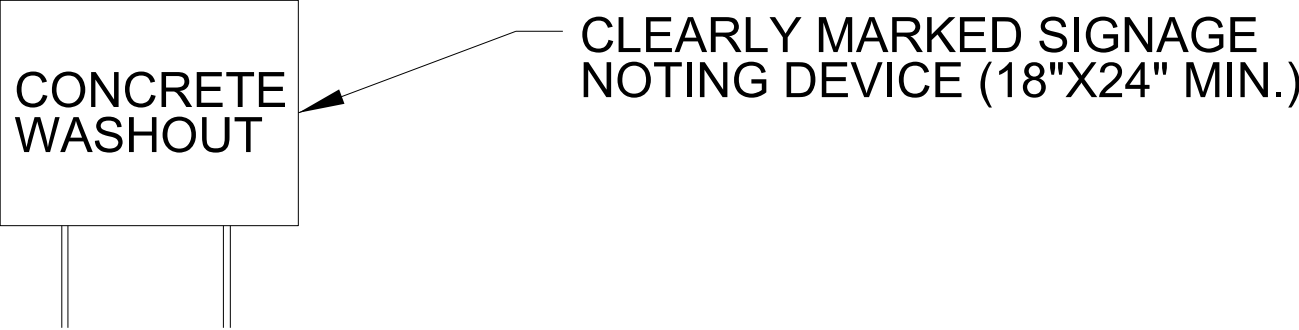
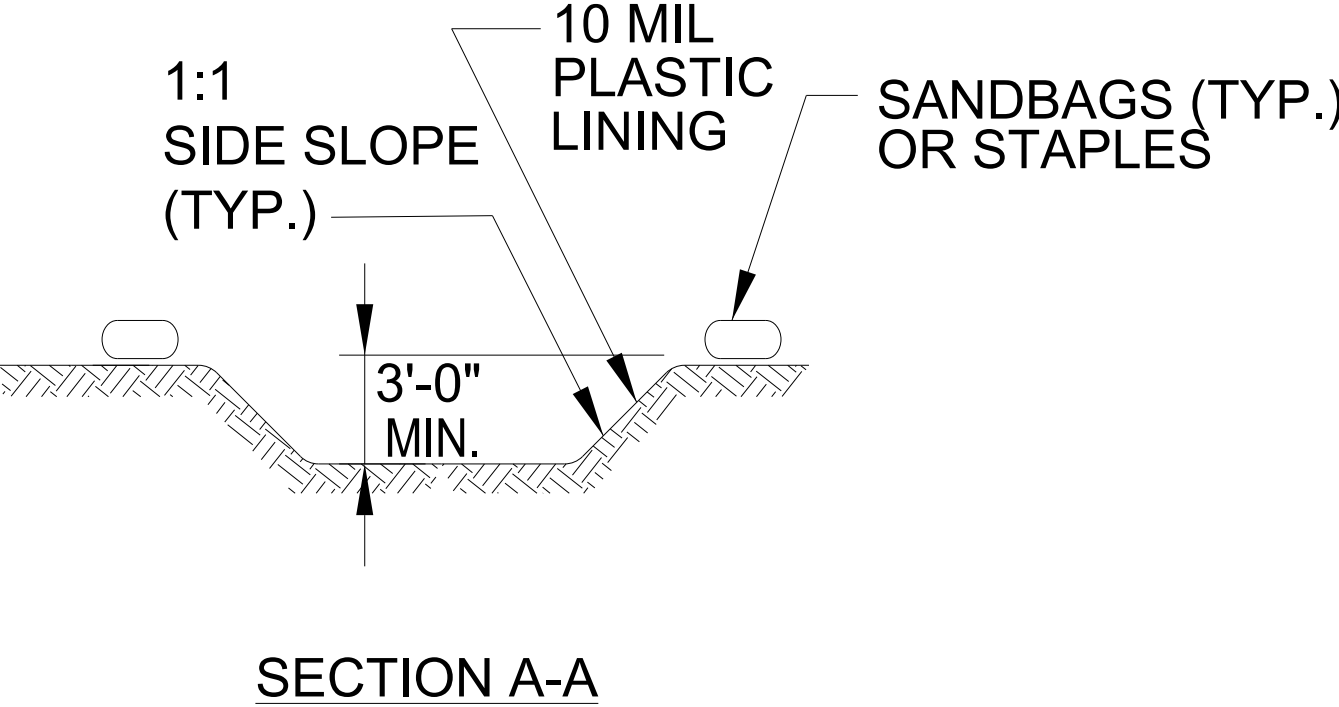
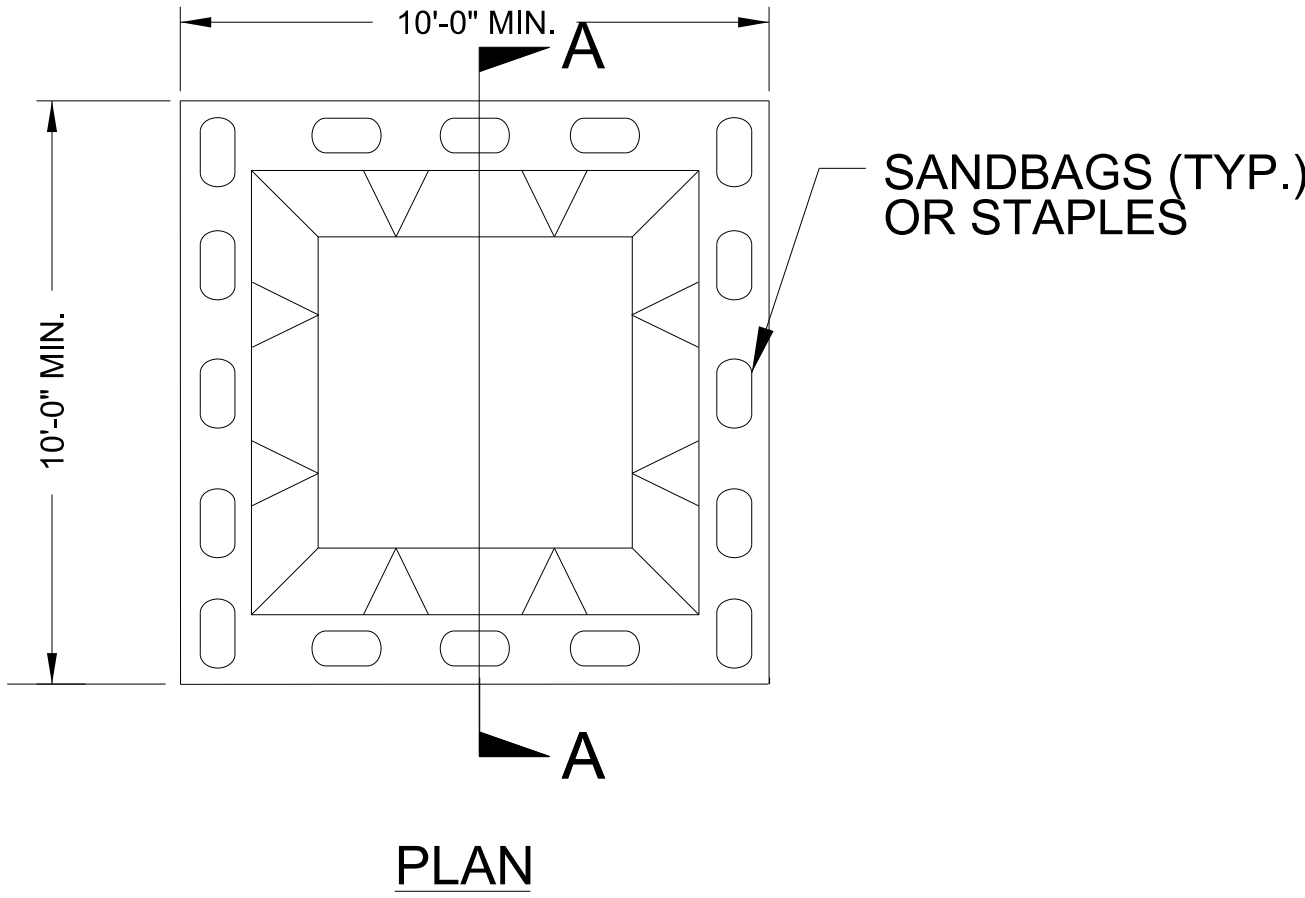
Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

EROSION & SEDIMENT CONTROL LEGEND

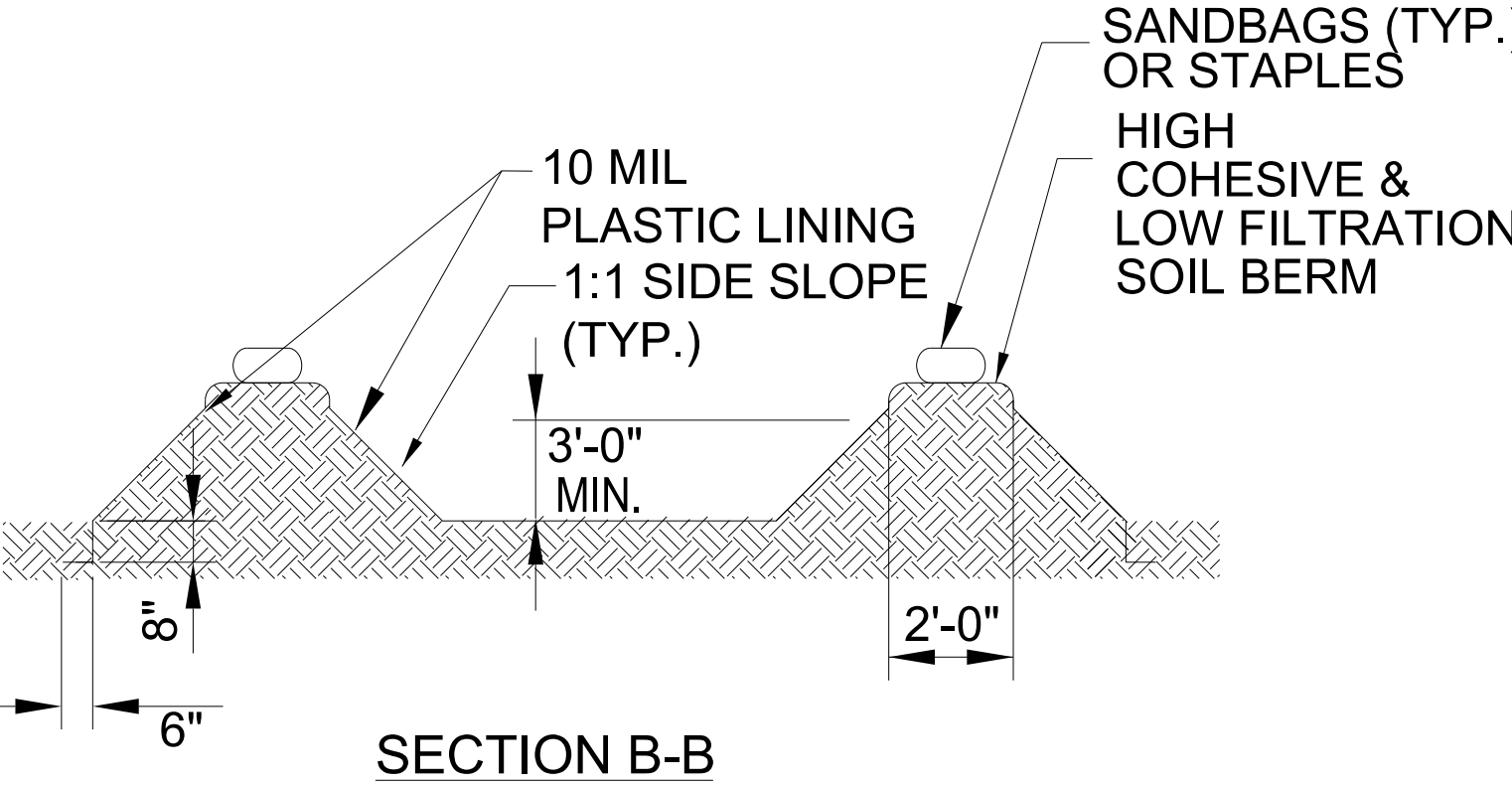
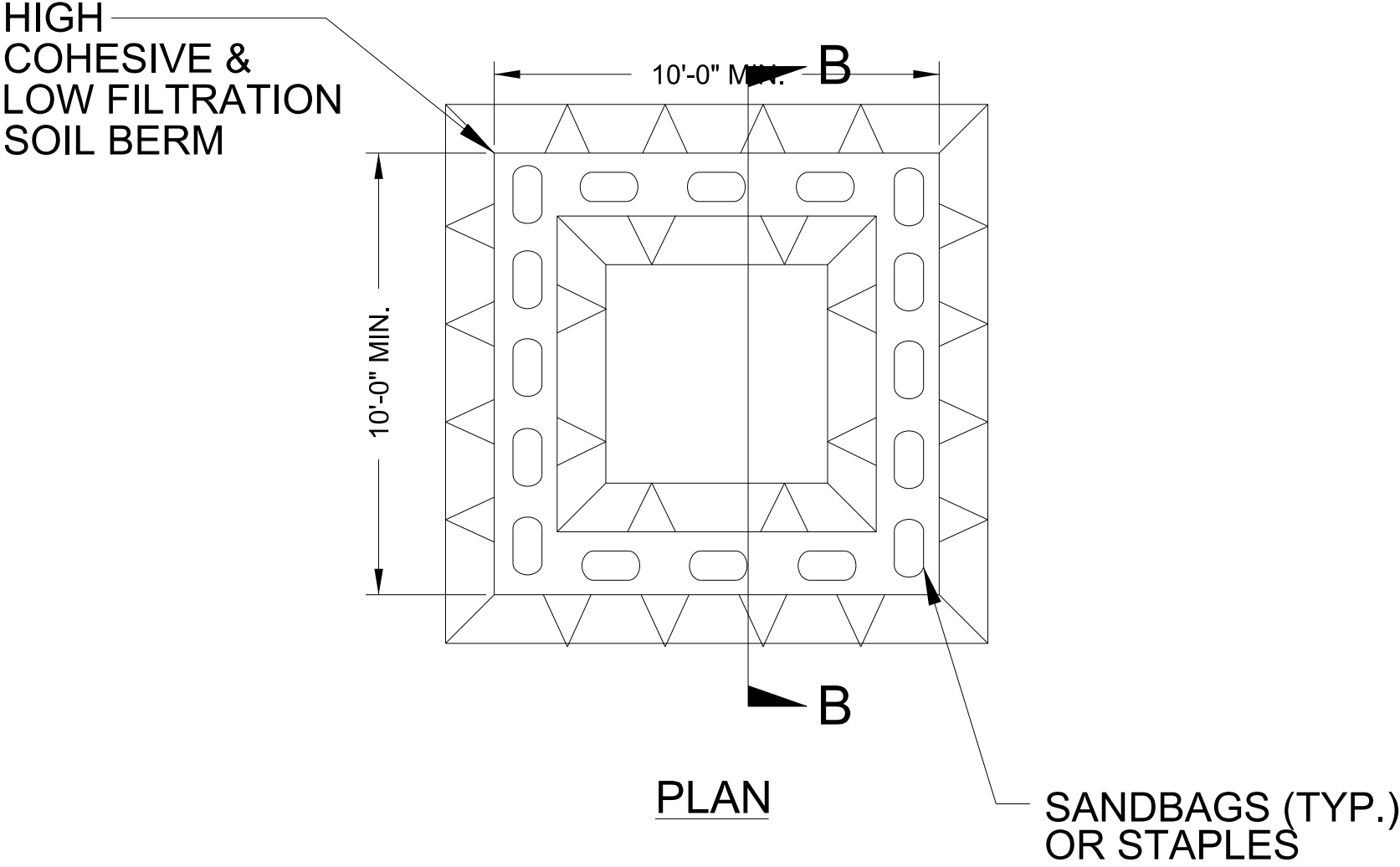
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PROJECT REFERENCE NO.	SHEET NO.
<i>R-5810</i>	<i>EC-03</i>

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	L	30+38	30+50	L	70
5	L	30+50	33+00	L	445
8	L	72+41	72+56	R	55
9	L	82+73	83+00	L	155
9	L	83+00	83+72	L	270
9	L	85+00	85+50	L	230
9	L	85+50	86+00	L	230
10	L	92+50	93+50	R	195
10	L	93+50	94+55	R	195
10	L	94+55	95+50	R	195
11	L	101+88	102+51	L	115
		STRAW	MATTING	TOTAL	2,155
PERMANENT SOIL REINFORCEMENT MATTING (PSRM TYPE 2)					
10	L	95+50	96+00	R	80
		PSRM TYPE 2	MATTING	TOTAL	80

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	L	33+00	33+27	LT	40
8	L	72+44	72+87	RT	80
	EXCELSIOR MATTING			TOTAL	120
	STRAW MATTING			TOTAL	2,155
	EXCELSIOR MATTING			TOTAL	120
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					4,050
	MATTING FOR EROSION CONTROL			TOTAL	6,325

7/10/2026
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mbailey

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-03A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

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PROJECT REFERENCE NO.		SHEET NO.	
R-5810		EC-07/CONST.07	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

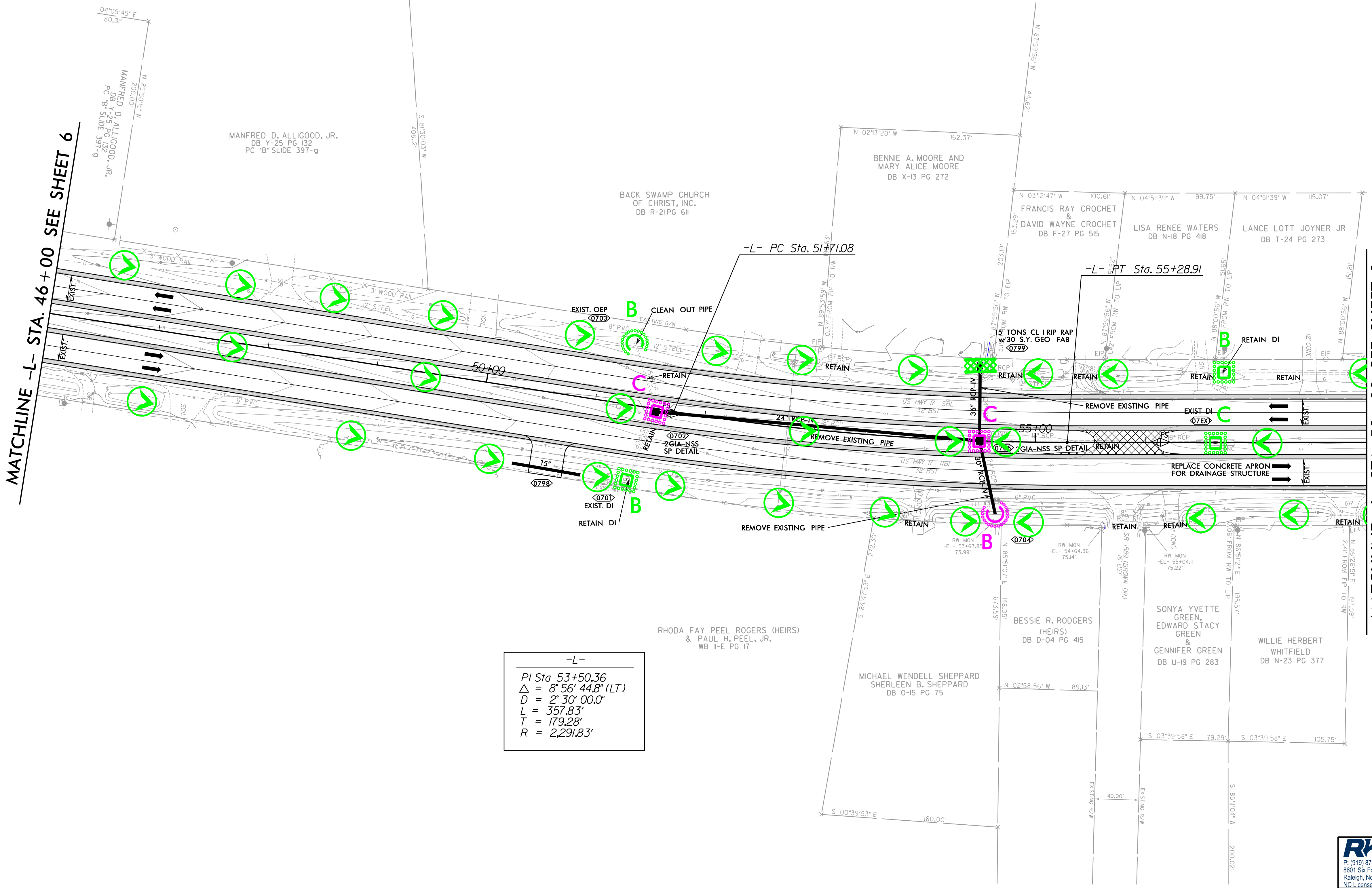
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.

NAD 83/2011

MATCHLINE -L- STA. 46+00 SEE SHEET 6

MATCHLINE -L- STA. 58+00 SEE SHEET 8



-L-
PI Sta 53+50.36
Δ = 8° 56' 44.8" (LT)
D = 2° 30' 00.0"
L = 357.83'
T = 179.28'
R = 2,291.83'

XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 14 & 15

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mboyle

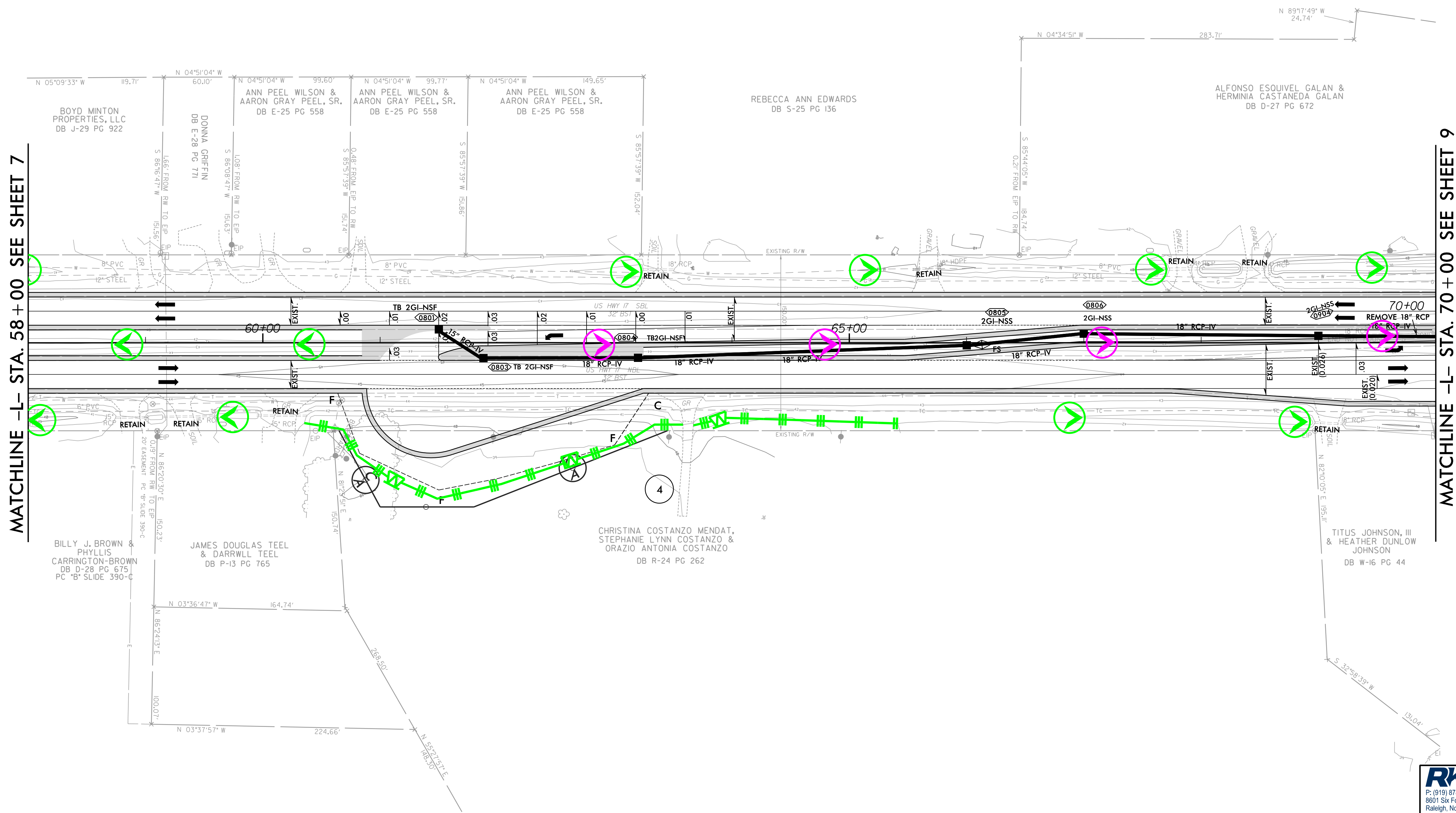
PROJECT REFERENCE NO.		SHEET NO.	
R-5810		EC-08/CONST.08	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.

NAD 83/2011



MATCHLINE -L- STA. 58+00 SEE SHEET 7

MATCHLINE -L- STA. 70+00 SEE SHEET 9

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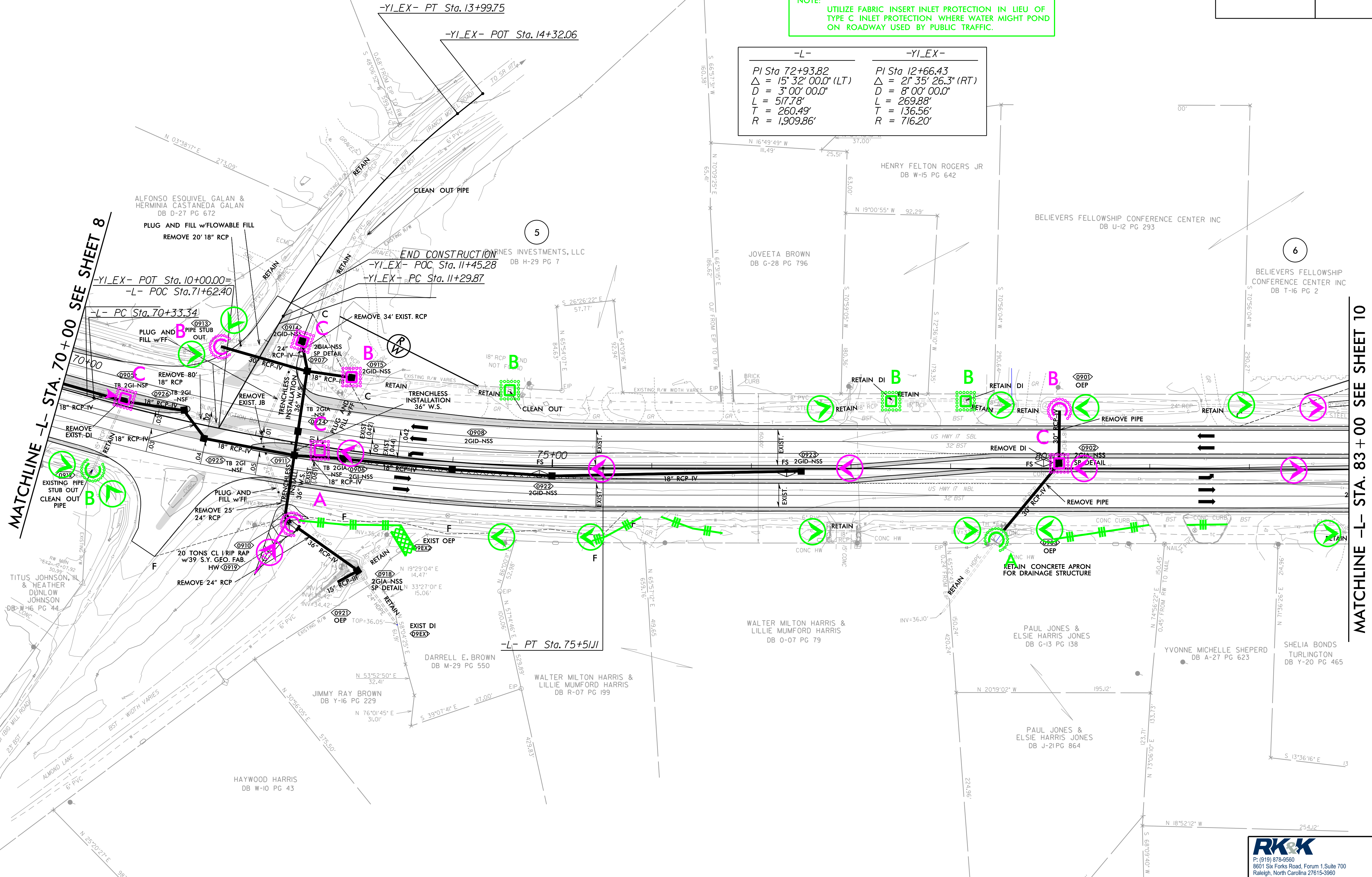
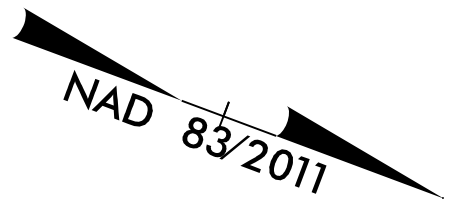
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7/10/2026
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PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-09/CONST.09
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



-L-	-YI-EX-
PI Sta 72+93.82	PI Sta 12+66.43
$\Delta = 15^{\circ} 32' 00.0''$ (LT)	$\Delta = 21^{\circ} 35' 26.3''$ (RT)
D = 3' 00' 00.0'	D = 8' 00' 00.0'
L = 517.78'	L = 269.88'
T = 260.49'	T = 136.56'
R = 1,909.86'	R = 716.20'

XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 16 & 17
FOR INTERSECTION DETAIL SEE SHT. 2B-2

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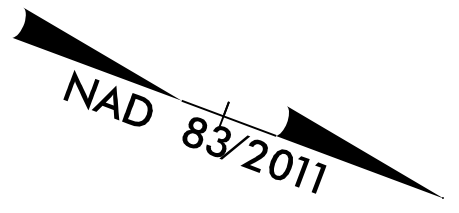
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mboyle

PROJECT REFERENCE NO.		SHEET NO.	
R-5810		EC-10/CONST.10	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

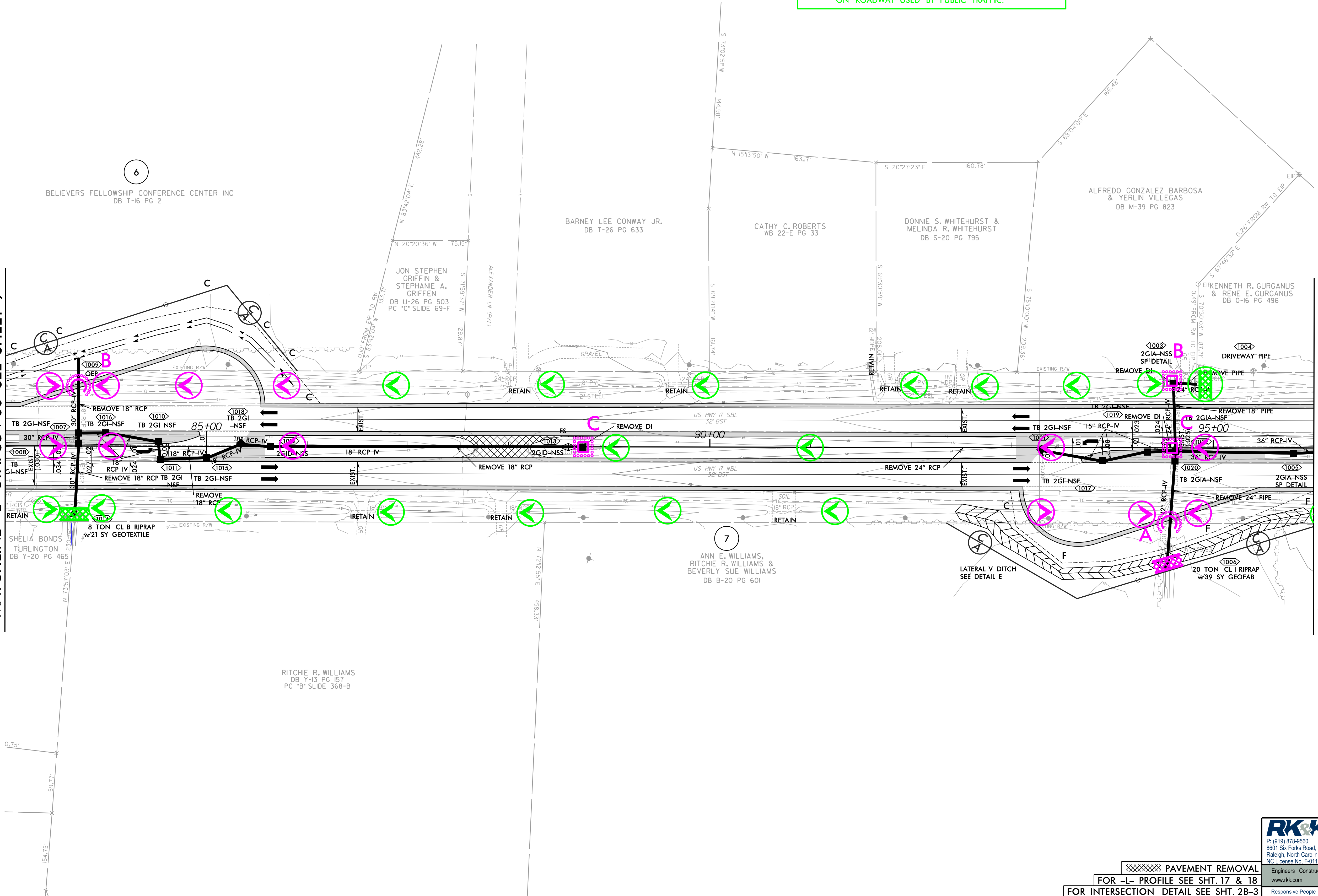
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



MATCHLINE -L- STA. 83 + 00 SEE SHEET 9

MATCHLINE -L- STA. 96 + 00 SEE SHEET 11



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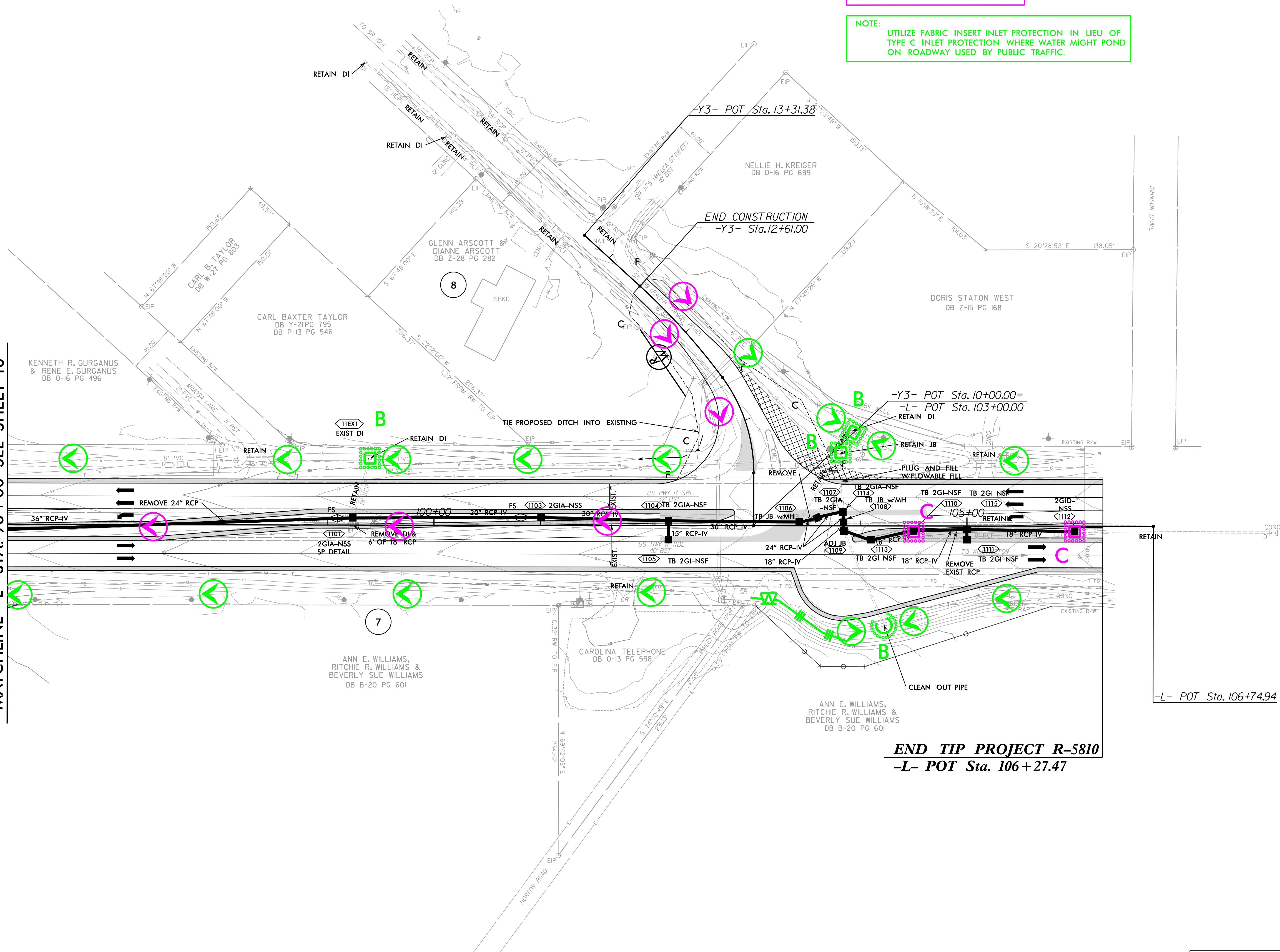
XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 17 & 18
FOR INTERSECTION DETAIL SEE SHT. 2B-3

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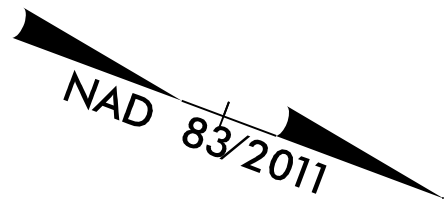
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mboyle

MATCHLINE -L- STA. 96+00 SEE SHEET 10



- NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.
- CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION - SHEET 11
- NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-II/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

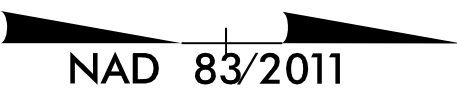
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-L- POT Sta. 106+27.47

XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 18
FOR -Y3- PROFILE SEE SHT. 19
FOR INTERSECTION DETAIL SEE SHT. 2B-4

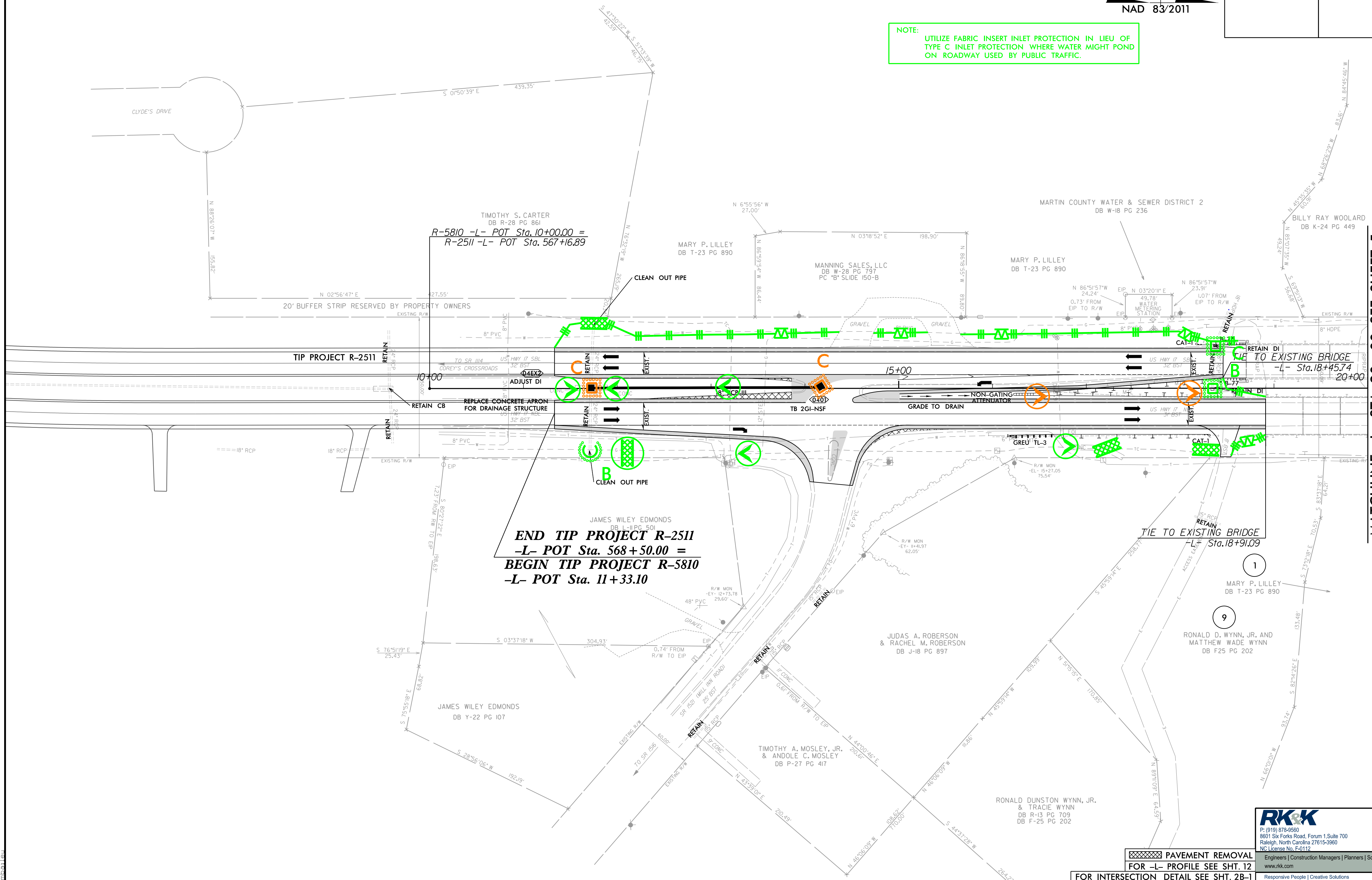
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PROJECT REFERENCE NO.		SHEET NO.	
R-5810		EC-12/CONST.04	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



MATCHLINE -L- STA. 20+00 SEE SHEET 5

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PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 12
FOR INTERSECTION DETAIL SEE SHT. 2B-1

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PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-13/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



-L-
PI Sta. 26+47.17
 $\Delta = 20^\circ 09' 42.6''$ (LT)
D = 2' 58' 47.4"
L = 676.61'
T = 341.84'
R = 1,922.78'

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FOR -L- PROFILE SEE SHT. 12 & 13
FOR INTERSECTION DETAIL SEE SHT. 2B-1

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PROJECT REFERENCE NO.		SHEET NO.	
R-5810		EC-14/CONST.06	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.

NAD 83/2011

MATCHLINE -L- STA. 33+00 SEE SHEET 5

MATCHLINE -L- STA. 46+00 SEE SHEET 7



-L-
PI Sta. 36+76.07
 $\Delta = 21^\circ 23' 44.8''$ (RT)
D = 3' 00' 00.0"
L = 713.19'
T = 360.80'
R = 1,909.86'



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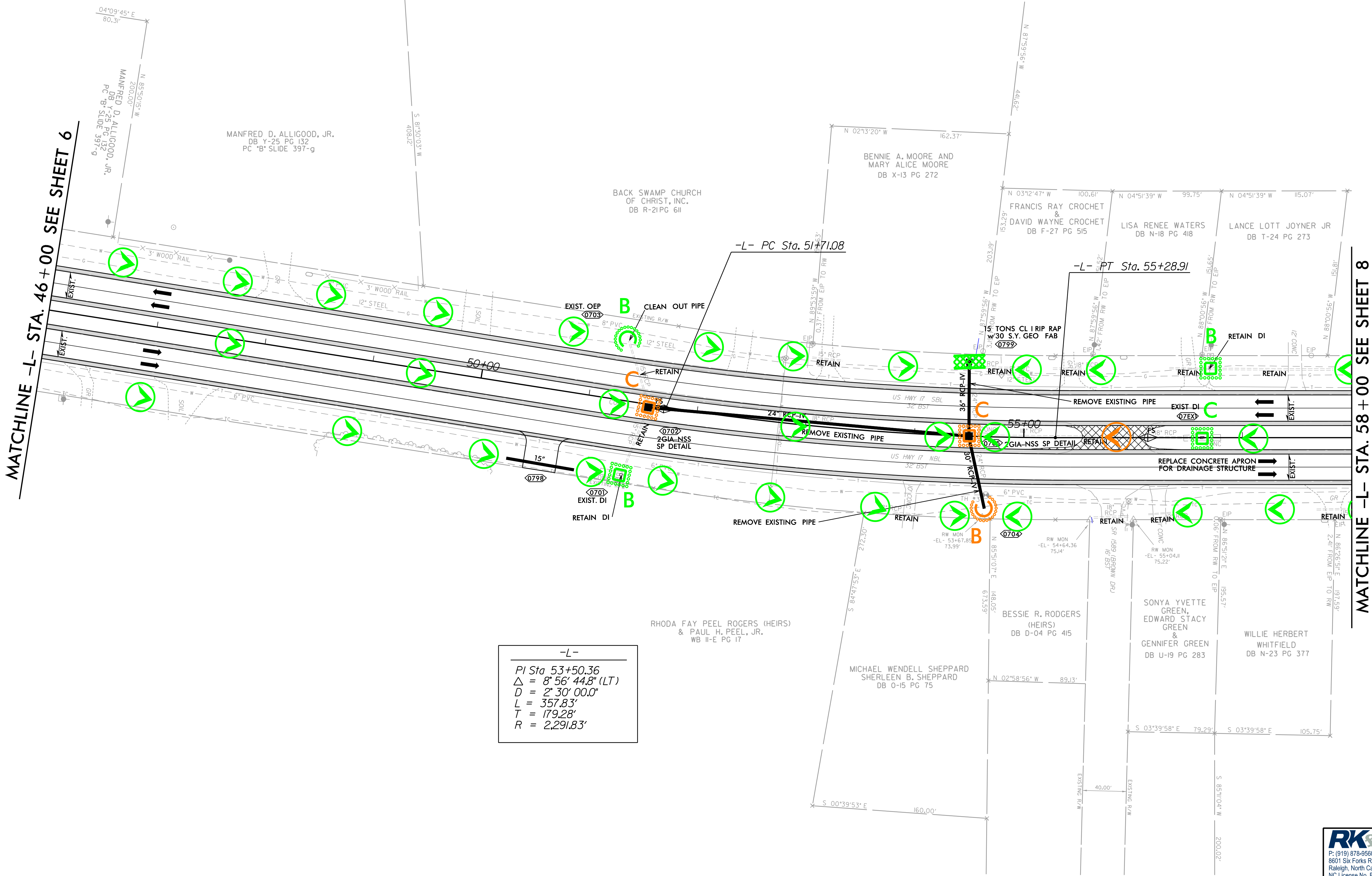
FOR -L- PROFILE SEE SHT. 13 & 14

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PROJECT REFERENCE NO.		SHEET NO.
R-5810		EC-15/CONST.07
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

NAD 83/2011

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



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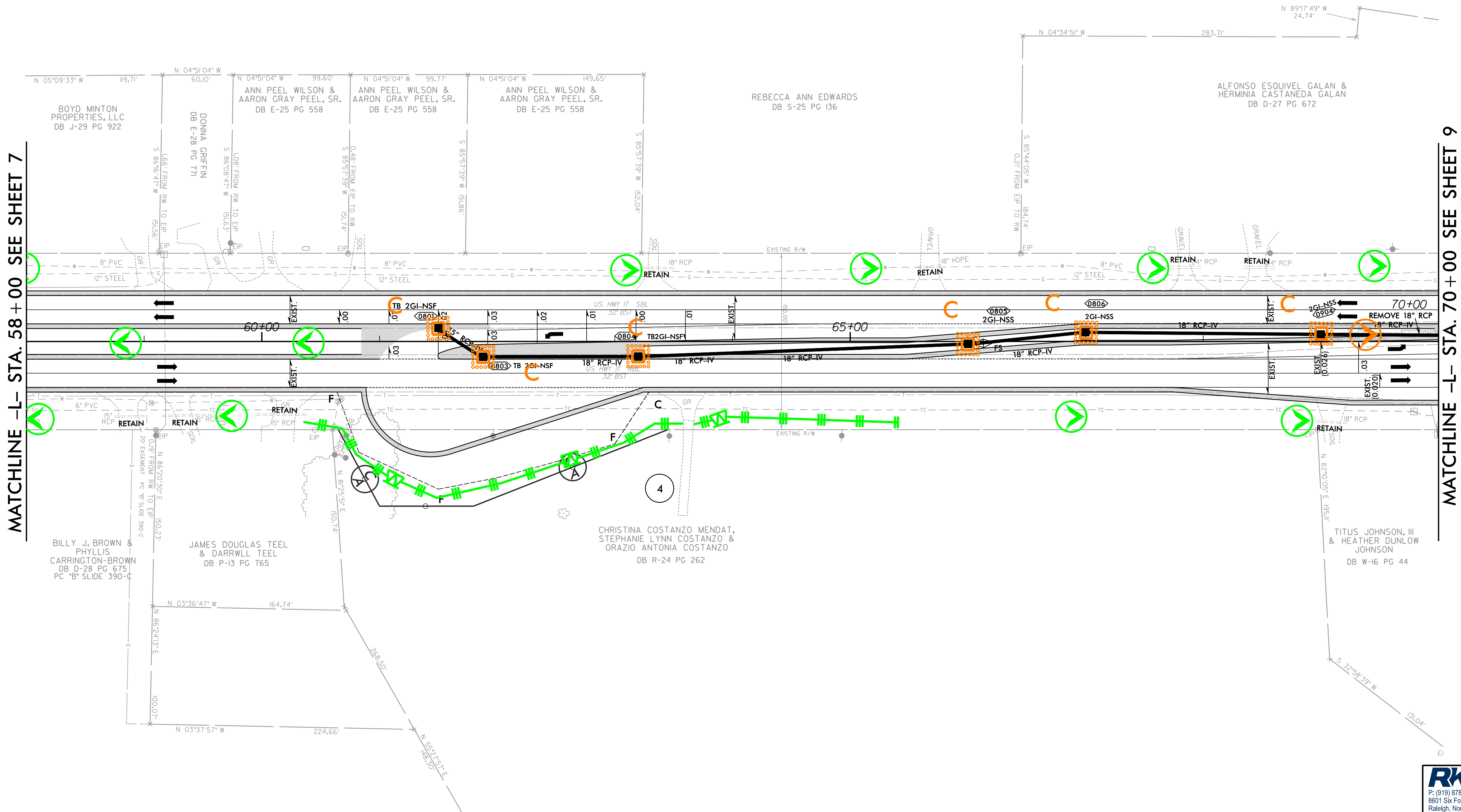
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PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 14 & 15

PROJECT REFERENCE NO.		SHEET NO.
R-5810		EC-16/CONST.08
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

NAD 83/2011

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF TYPE C INLET PROTECTION WHERE WATER MIGHT POND ON ROADWAY USED BY PUBLIC TRAFFIC.



MATCHLINE -L- STA. 58+00 SEE SHEET 7

MATCHLINE -L- STA. 70+00 SEE SHEET 9



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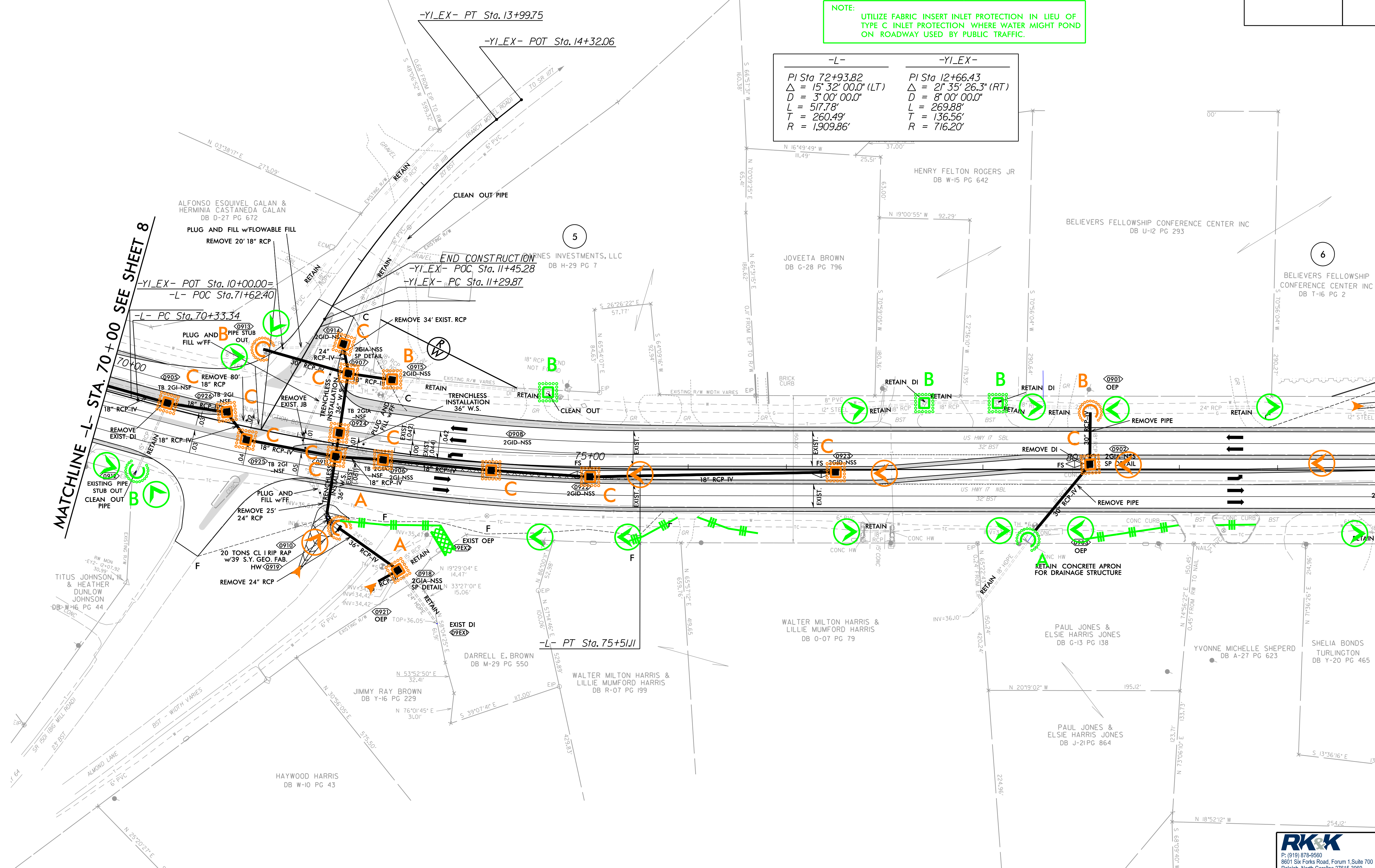
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FOR -L- PROFILE SEE SHT. 15 & 16
FOR INTERSECTION DETAIL SEE SHT. 2B-2

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PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-17/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.

-L-	-YI-EX-
PI Sta 72+93.82	PI Sta 12+66.43
$\Delta = 15^{\circ} 32' 00.0''$ (LT)	$\Delta = 21^{\circ} 35' 26.3''$ (RT)
D = 3' 00' 00.0'	D = 8' 00' 00.0'
L = 517.78'	L = 269.88'
T = 260.49'	T = 136.56'
R = 1,909.86'	R = 716.20'

XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 16 & 17
FOR INTERSECTION DETAIL SEE SHT. 2B-2

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mboyle

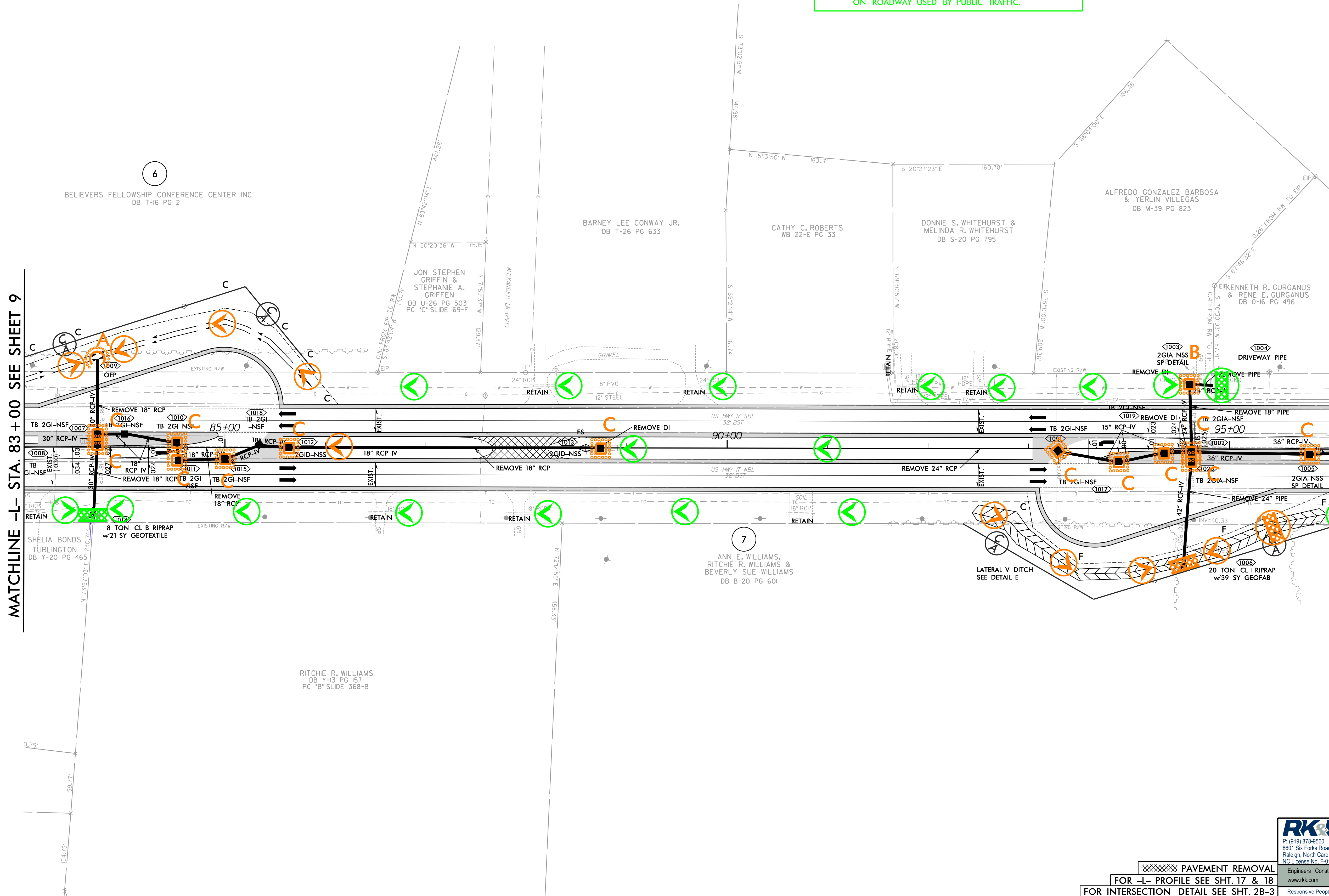
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R-5810		EC-18/CONST.10
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

NAD 83/2011

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.

MATCHLINE -L- STA. 83 + 00 SEE SHEET 9

MATCHLINE -L- STA. 96 + 00 SEE SHEET 11

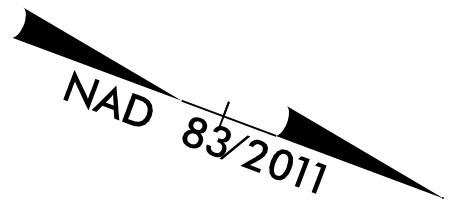


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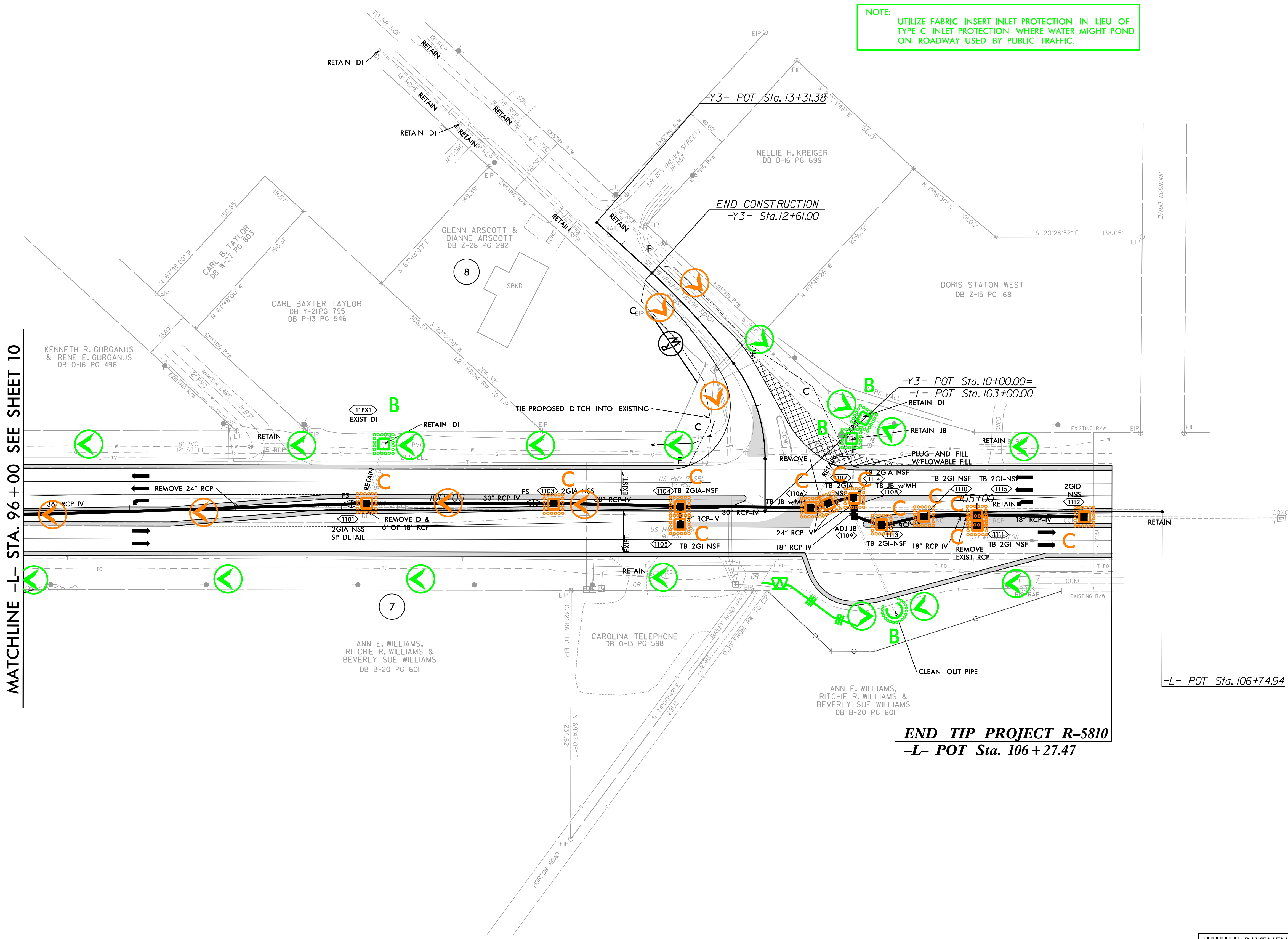
XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 17 & 18
FOR INTERSECTION DETAIL SEE SHT. 2B-3

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PROJECT REFERENCE NO.	SHEET NO.
R-5810	EC-19/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF
TYPE C INLET PROTECTION WHERE WATER MIGHT POND
ON ROADWAY USED BY PUBLIC TRAFFIC.



XXXXXXXX PAVEMENT REMOVAL
FOR -L- PROFILE SEE SHT. 18
FOR -Y3- PROFILE SEE SHT. 19
FOR INTERSECTION DETAIL SEE SHT. 2B-4

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1920-Hydraulics