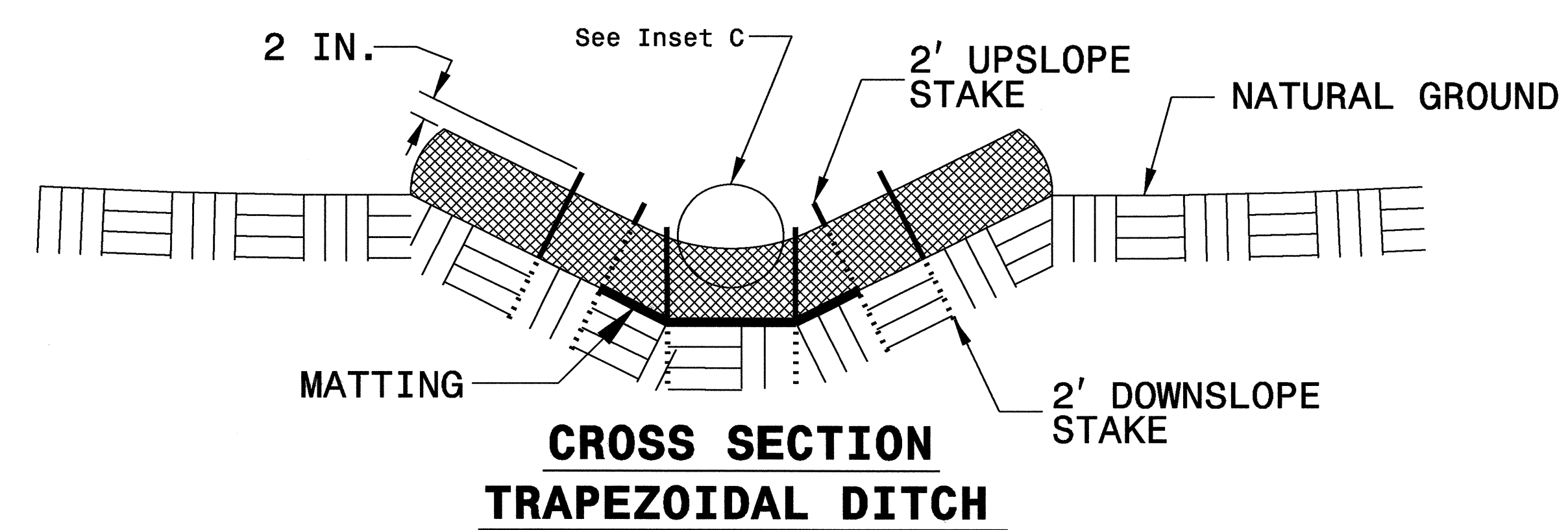
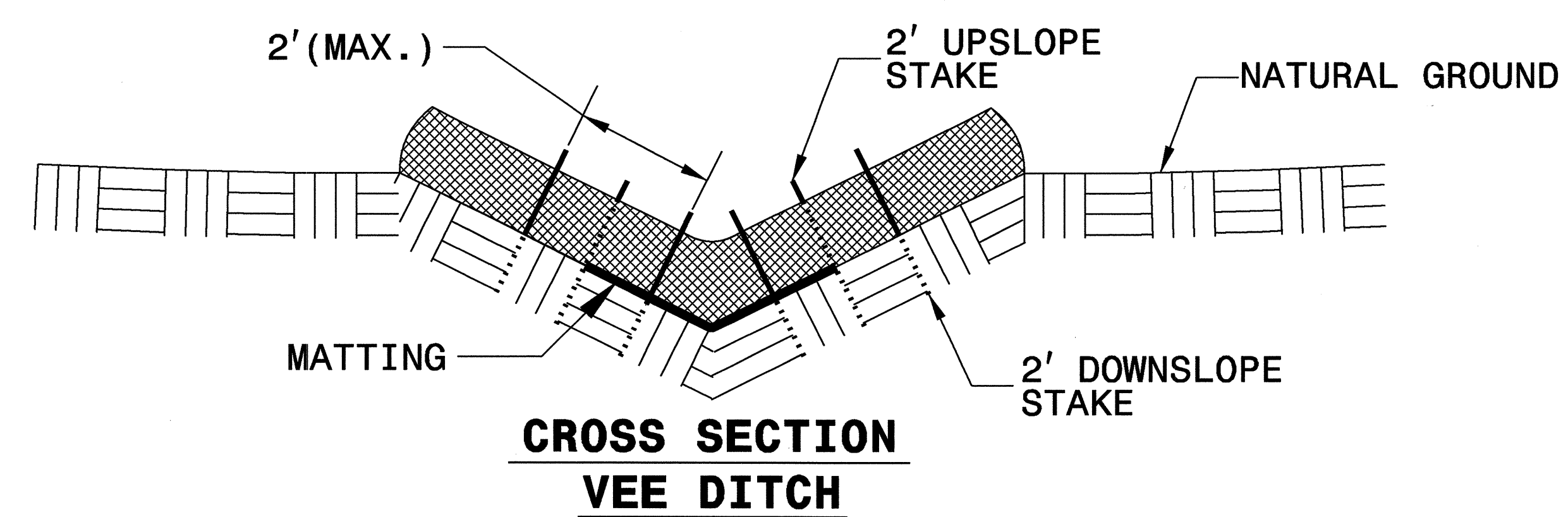
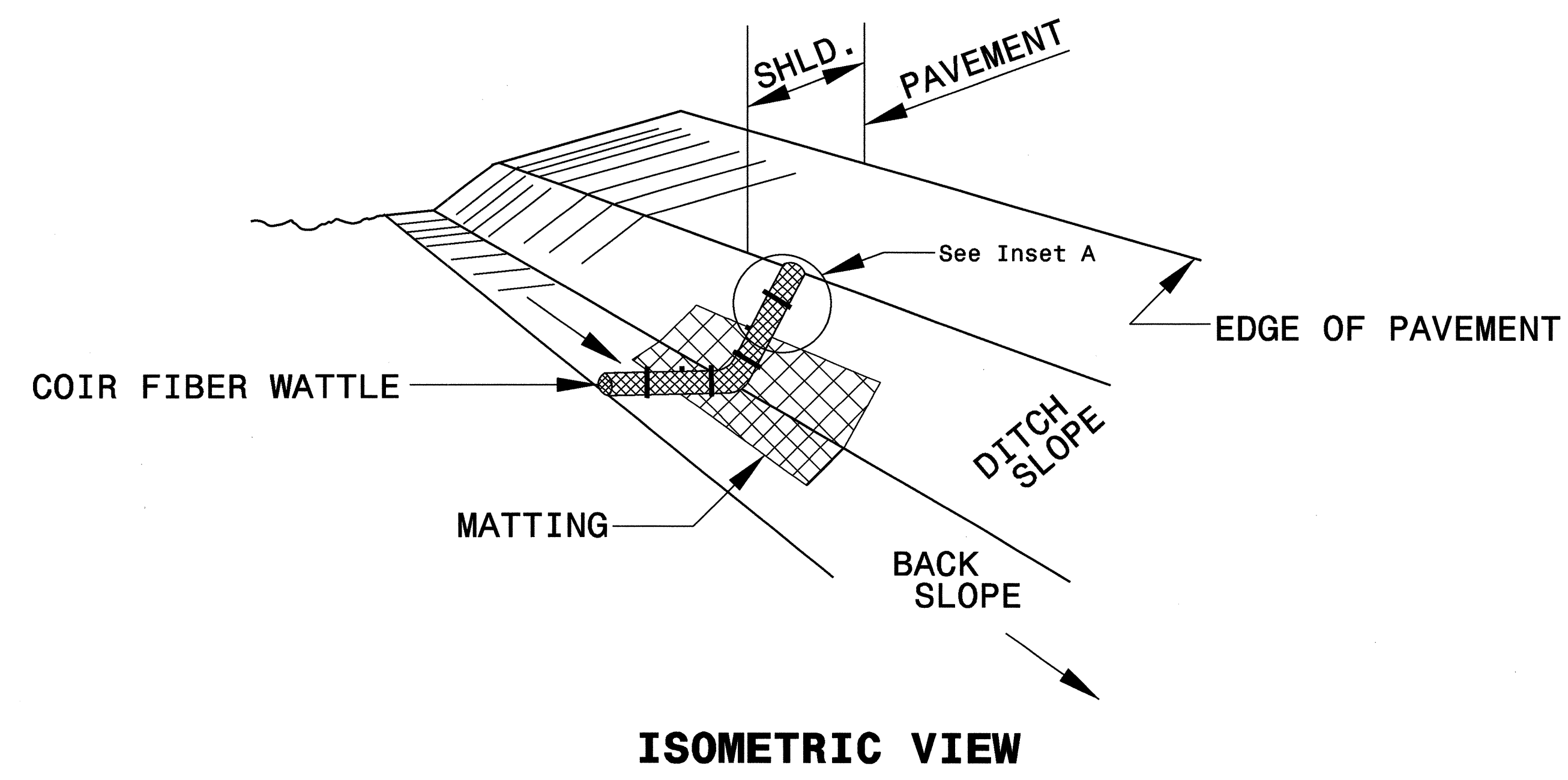
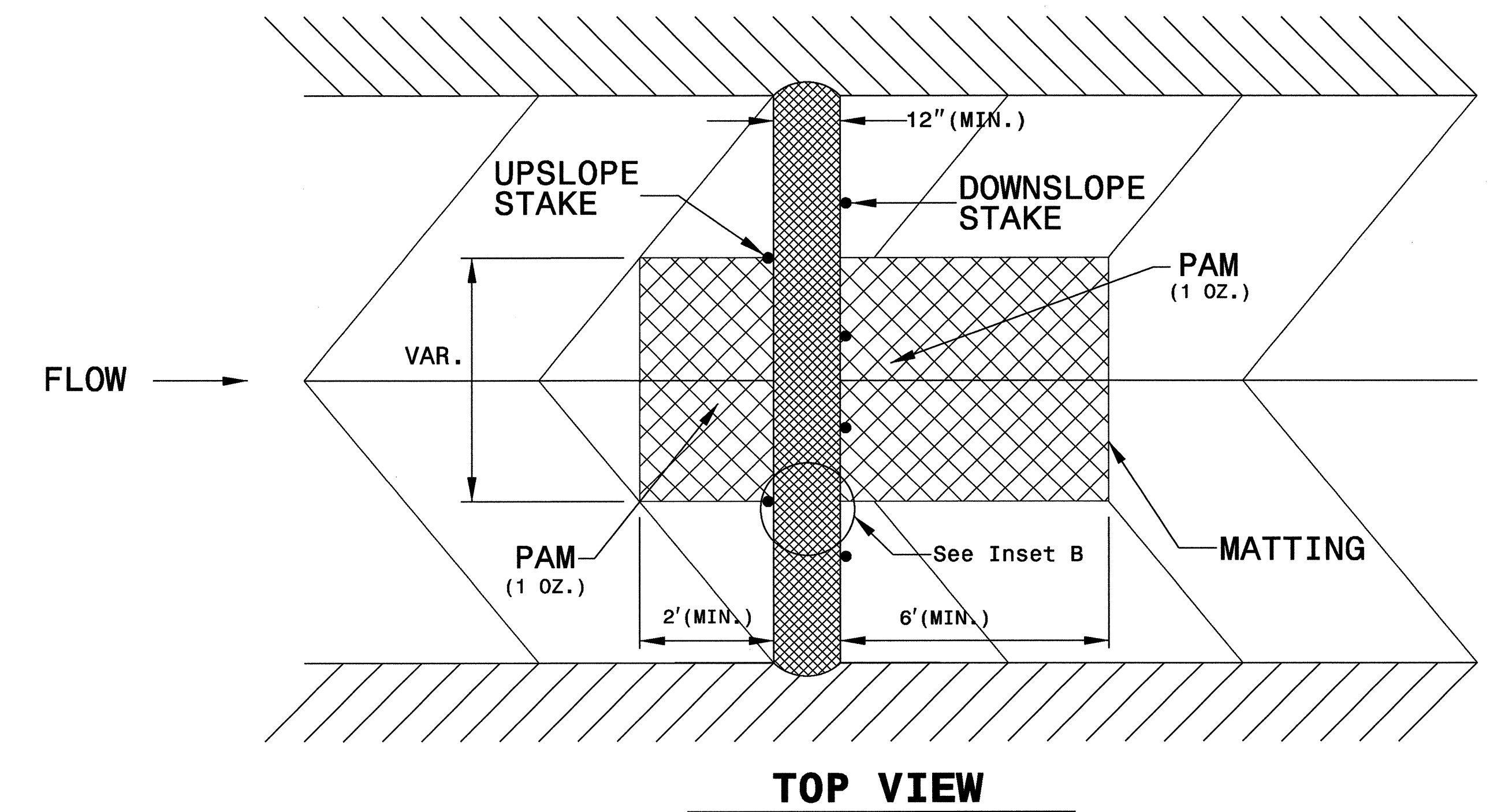
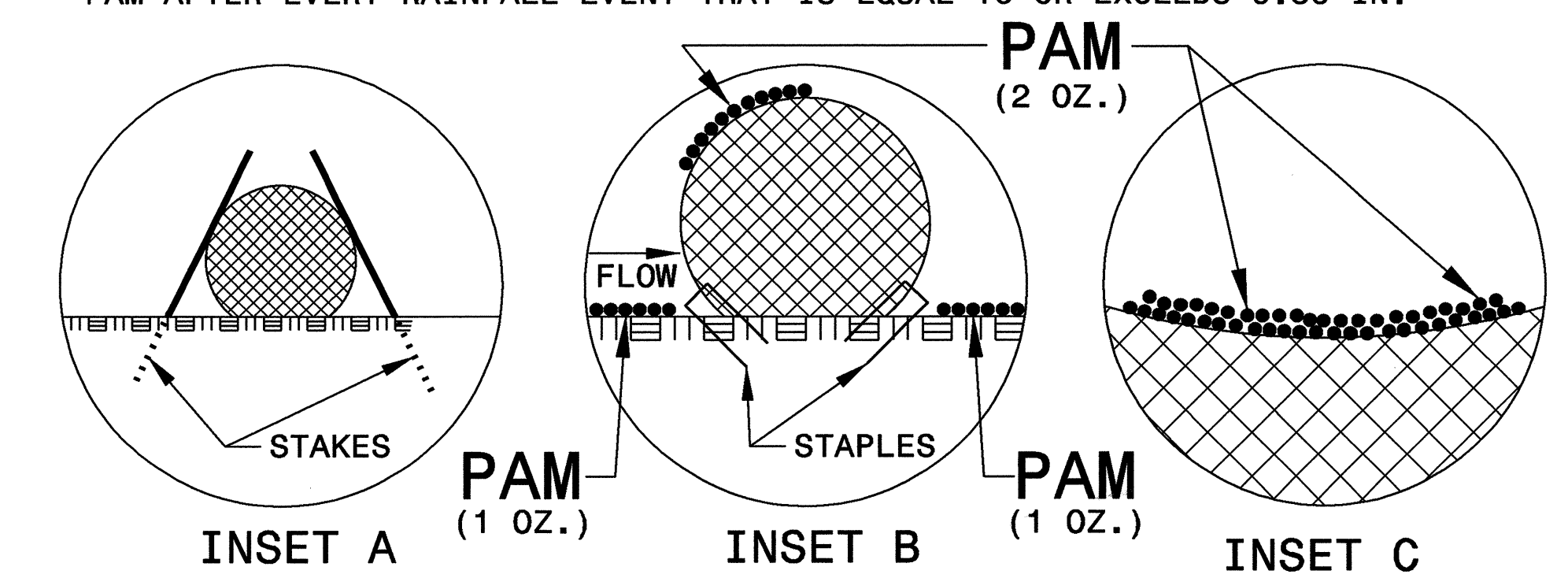


PROJECT REFERENCE NO. U-5132	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

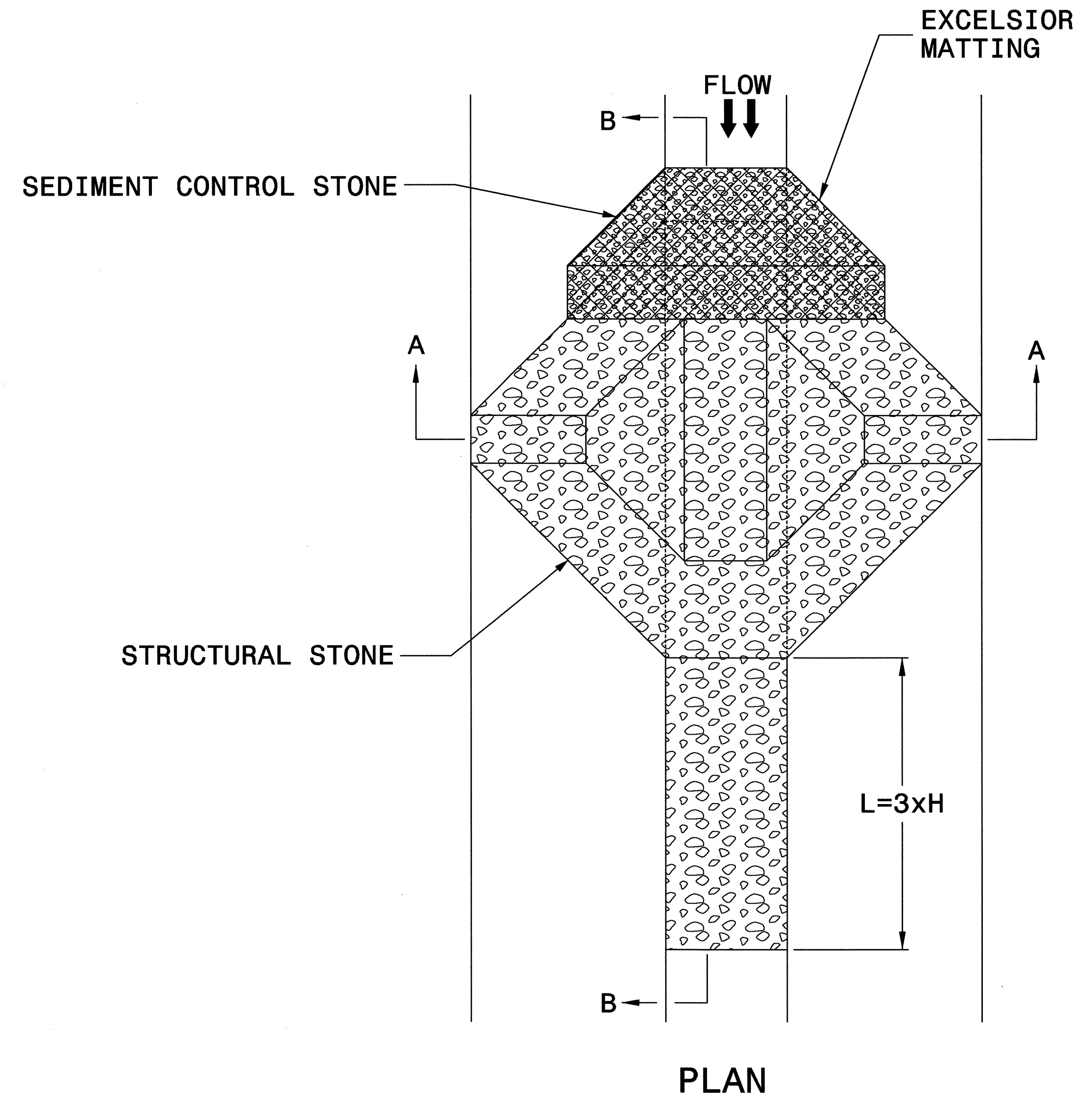


- NOTES:**
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO.	SHEET NO.
U-5132	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

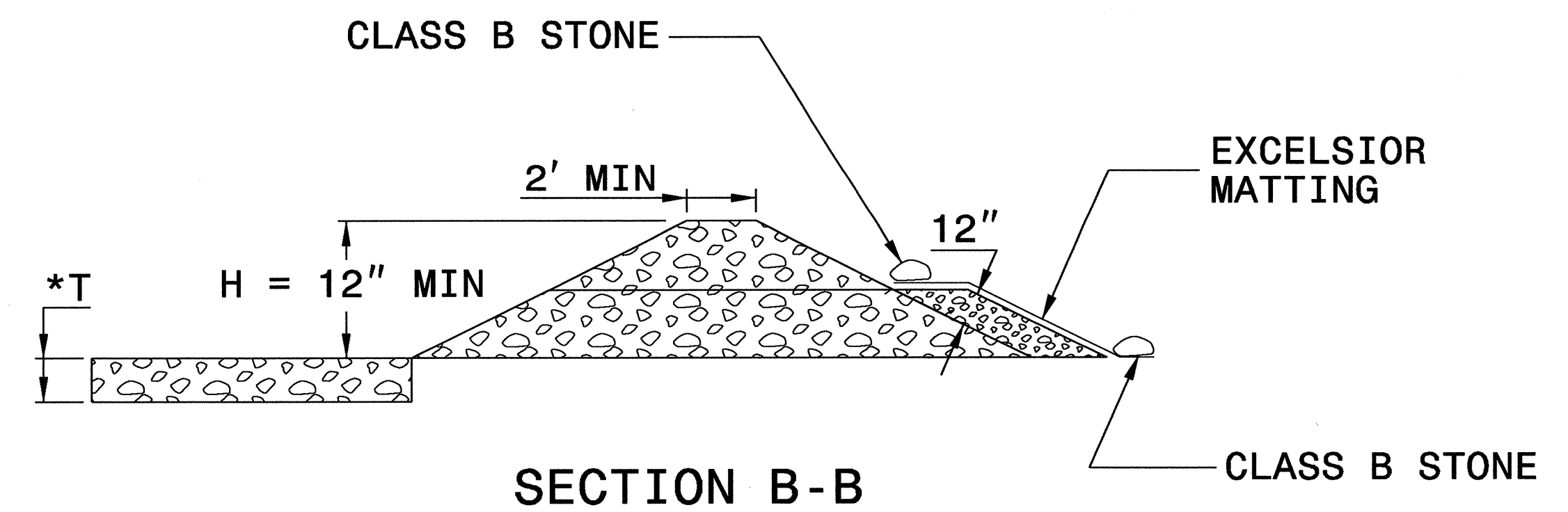
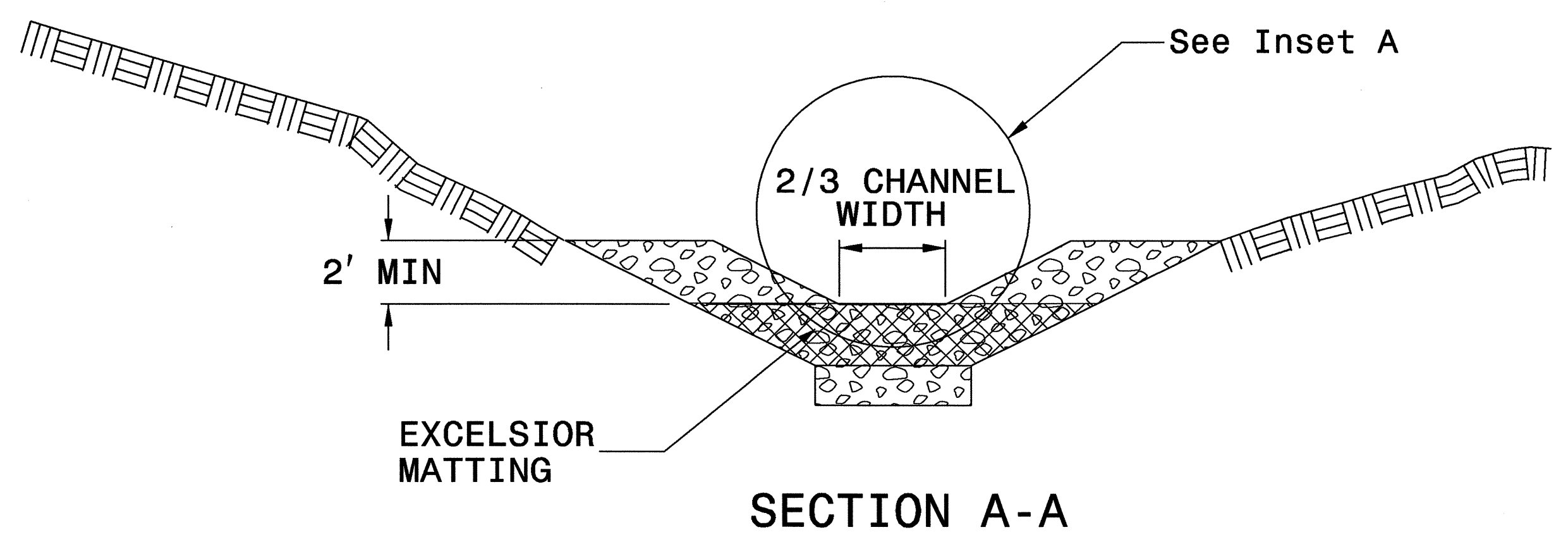
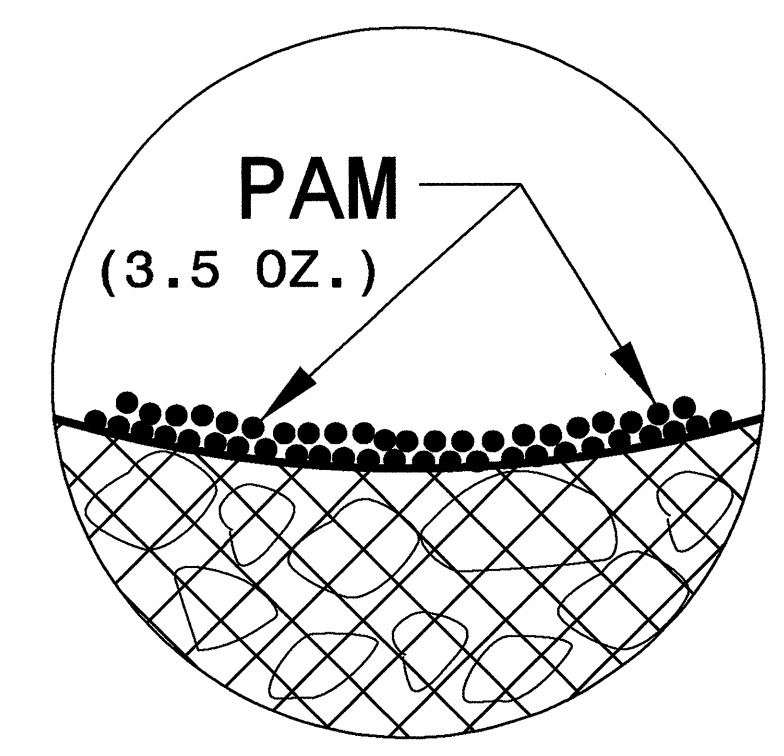


NOTES

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.

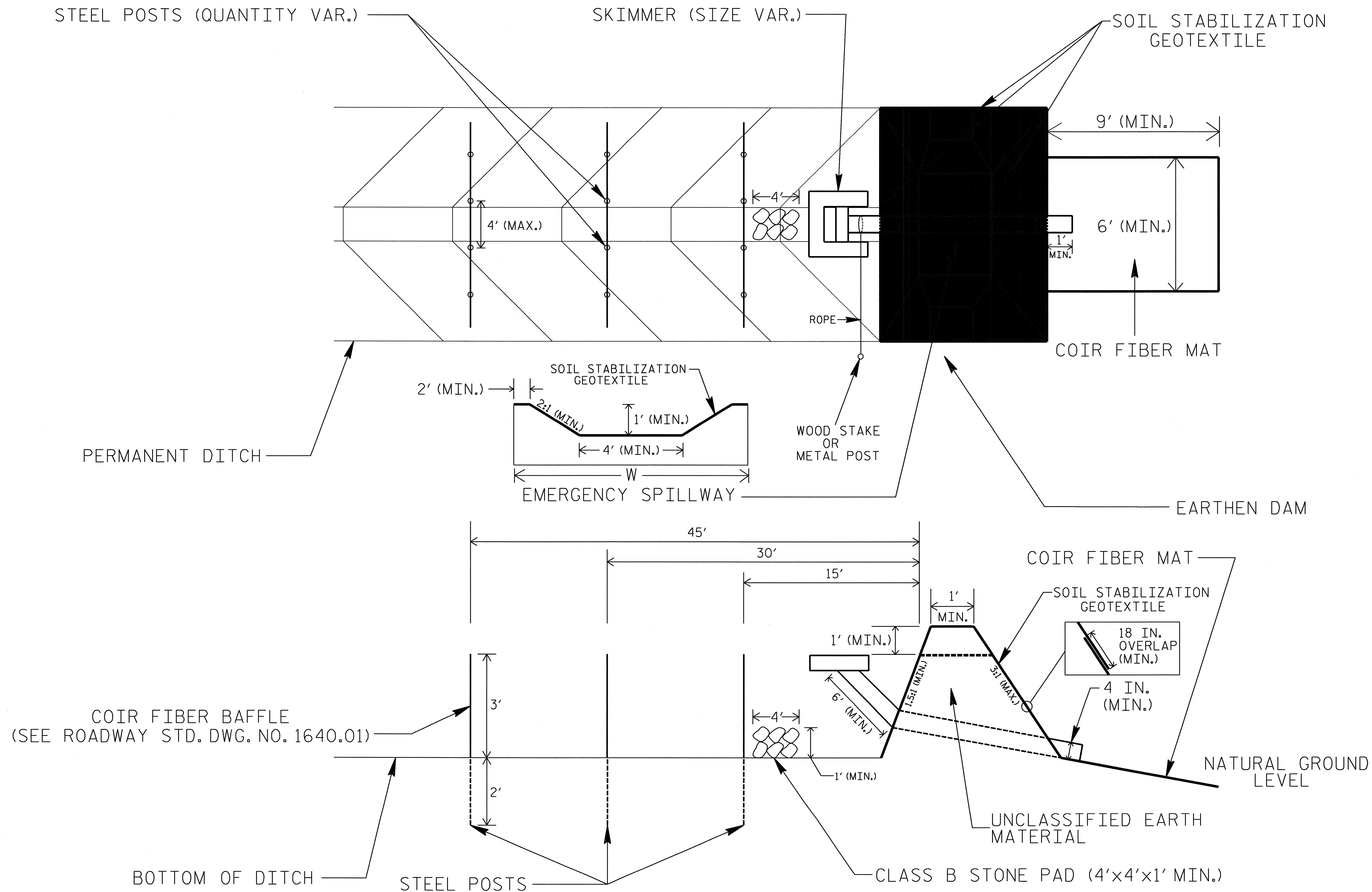


*T = 12" MIN., 18" MAX.

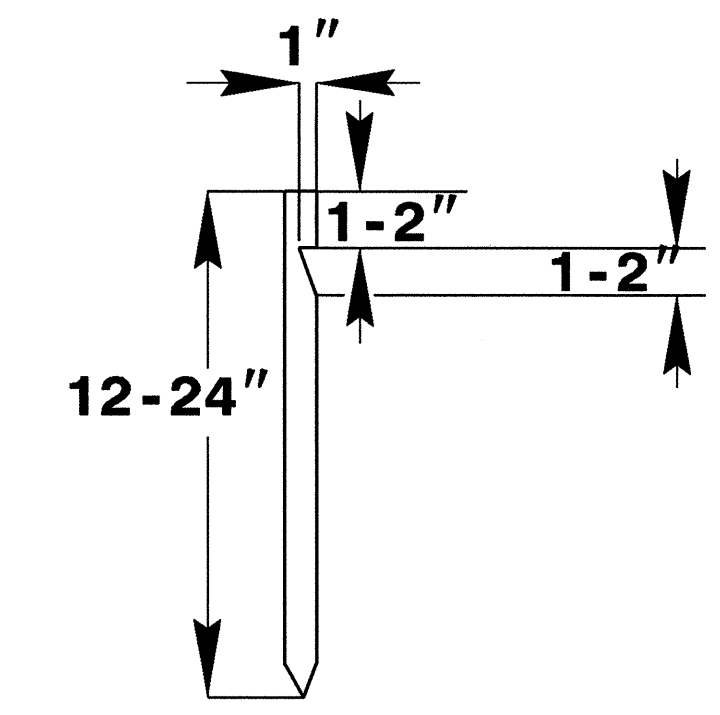
NOT TO SCALE

PROJECT REFERENCE NO. U-5132	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

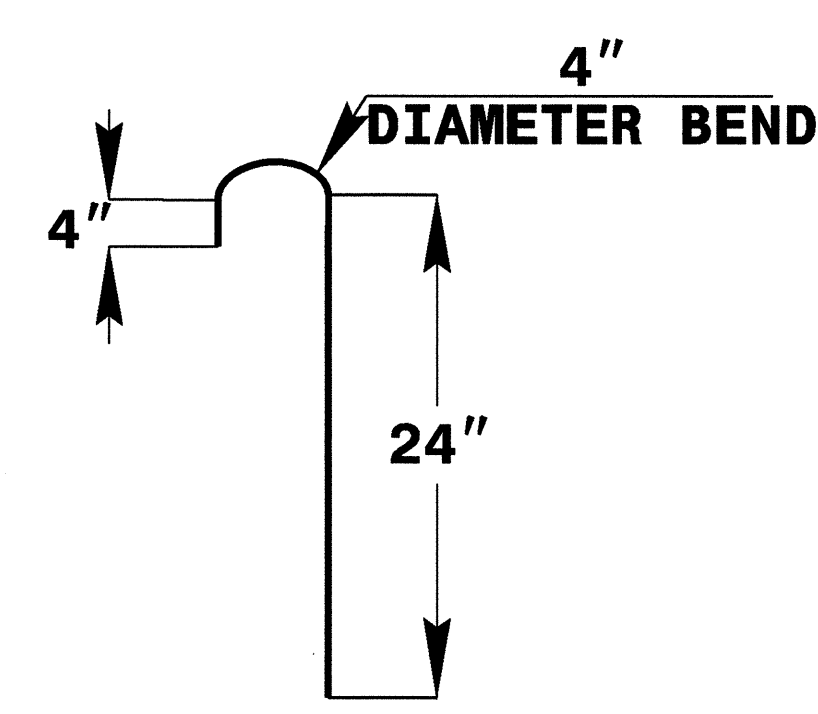
EARTHEN DAM WITH SKIMMER



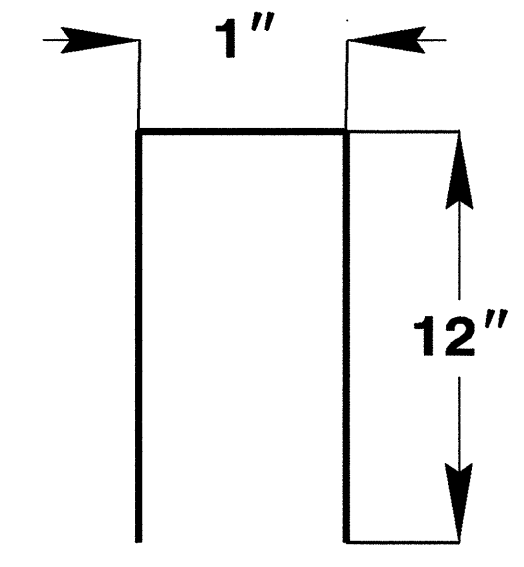
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>U-5132</i>	<i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

PROJECT REFERENCE NO. <i>U-5132</i>	SHEET NO. EC-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

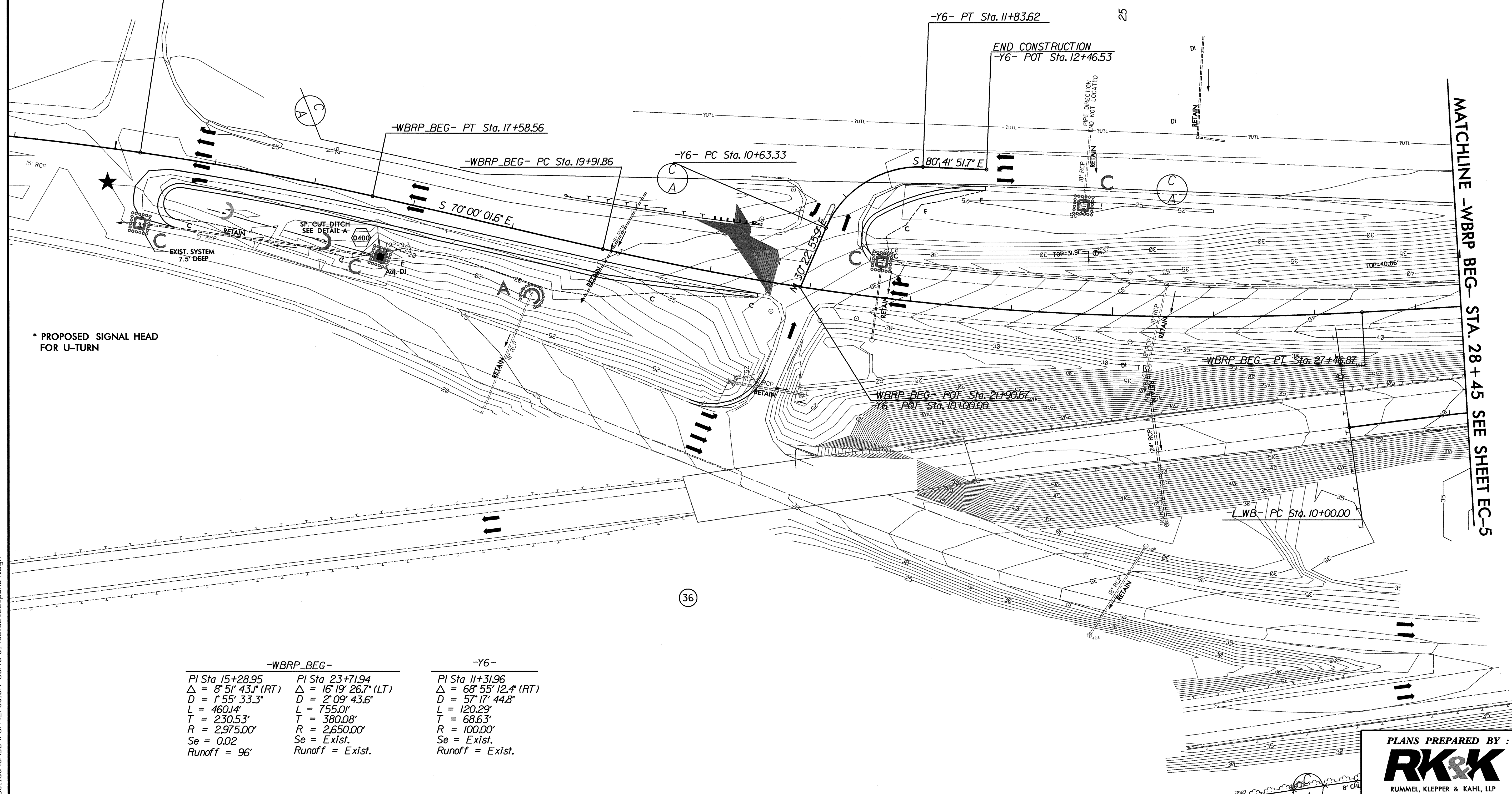


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

BEGIN CONSTRUCTION
-WBRP_BEG- PT Sta. 15+25

END CONSTRUCTION
-Y6- POT Sta. 12+46.53



* PROPOSED SIGNAL HEAD
FOR U-TURN

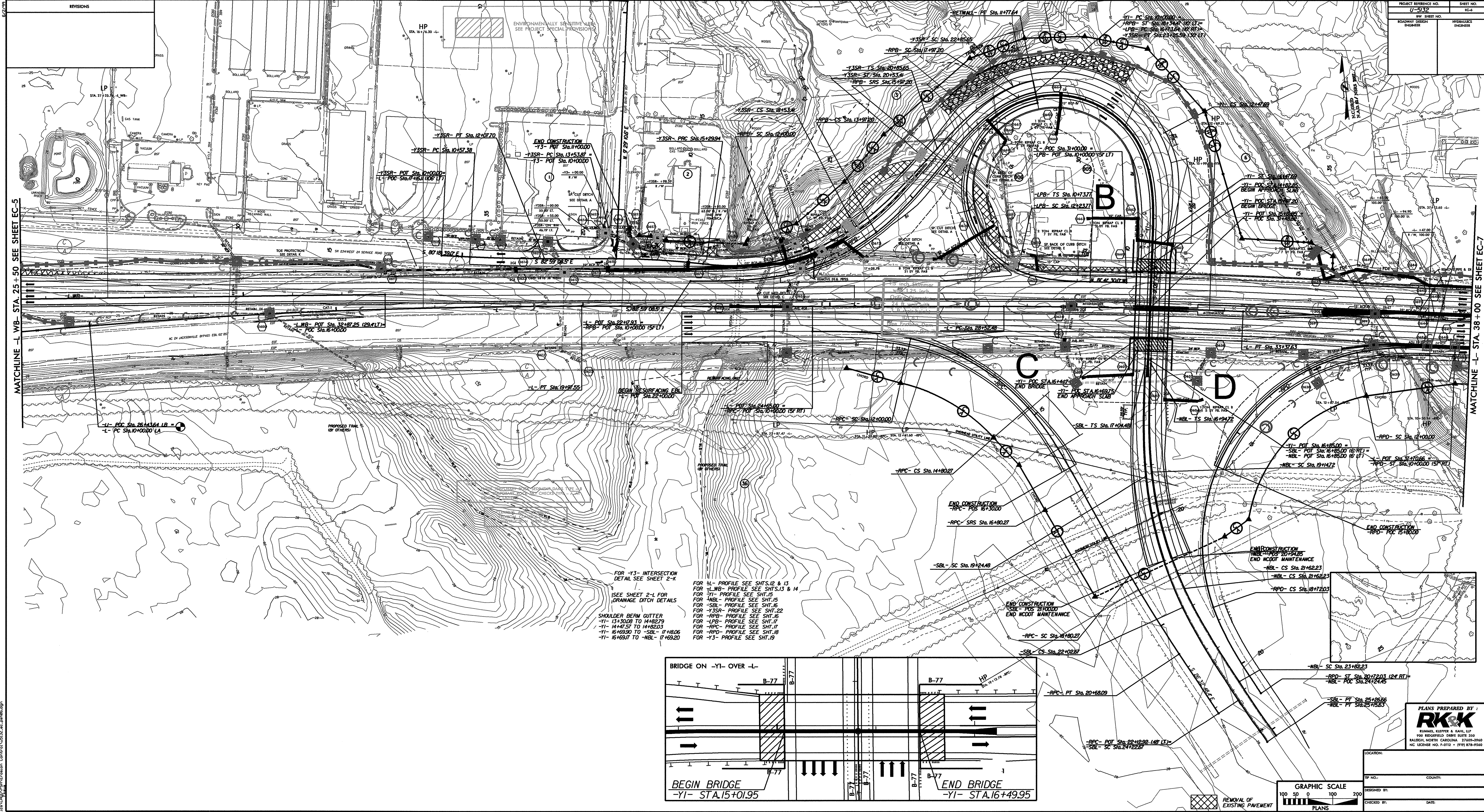
MATCHLINE -WBRP_BEG- STA. 28 + 45 SEE SHEET EC-5

-WBRP_BEG-		-Y6-
PI Sta 15+28.95	PI Sta 23+71.94	PI Sta 11+31.96
$\Delta = 8^{\circ} 51' 43.1''$ (RT)	$\Delta = 16^{\circ} 19' 26.7''$ (LT)	$\Delta = 68^{\circ} 55' 12.4''$ (RT)
$D = 1^{\circ} 55' 33.3''$	$D = 2^{\circ} 09' 43.6''$	$D = 57^{\circ} 17' 44.8''$
$L = 460.14'$	$L = 755.01'$	$L = 120.29'$
$T = 230.53'$	$T = 380.08'$	$T = 68.63'$
$R = 2,975.00'$	$R = 2,650.00'$	$R = 100.00'$
$Se = 0.02$	$Se = \text{Exlst.}$	$Se = \text{Exlst.}$
$\text{Runoff} = 96'$	$\text{Runoff} = \text{Exlst.}$	$\text{Runoff} = \text{Exlst.}$

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FOR -WBRP_BEG- PROFILE SEE SHT. 22

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NO.	REVISIONS

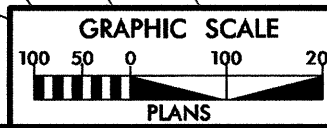
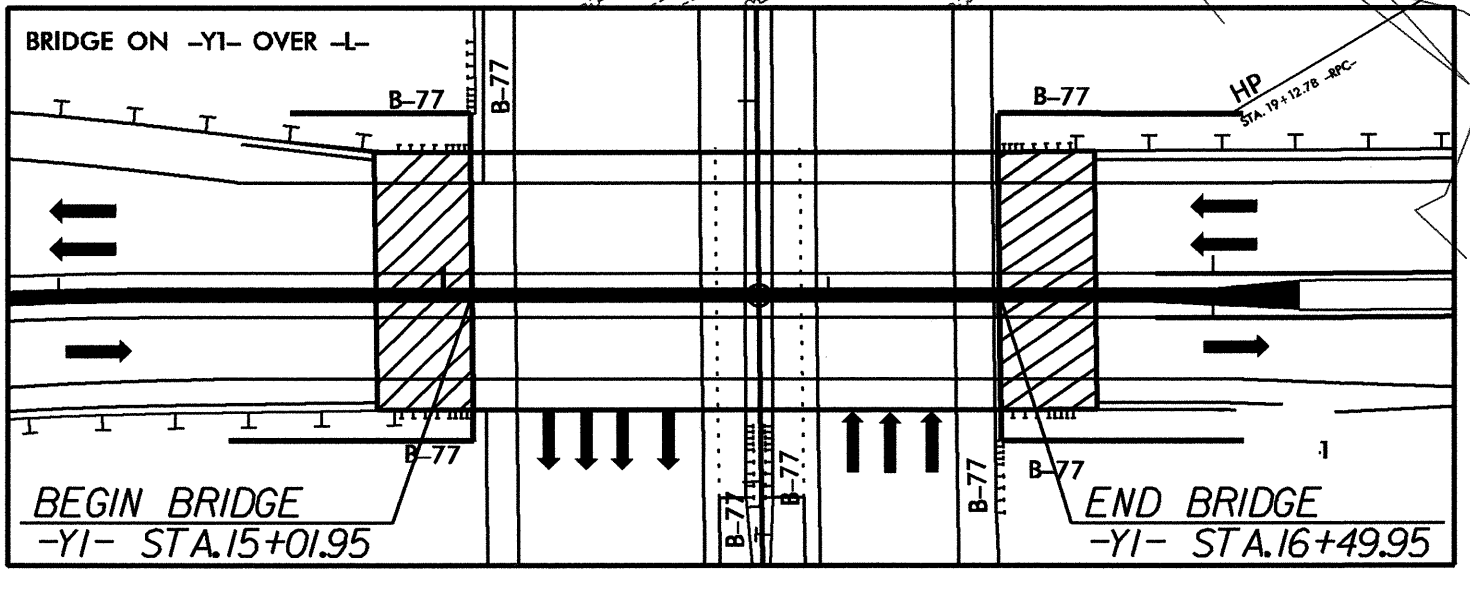
PROJECT REFERENCE NO. 17-5132	SHEET NO. E-4
ROWWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE - L - WB - STA. 25 + 50 - SEE SHEET EC-5

MATCHLINE - L - STA. 38 + 00 - SEE SHEET EC-7

FOR -Y3- INTERSECTION
DETAIL SEE SHEET 2-K
SEE SHEET 2-L FOR
DRAINAGE DITCH DETAILS
SHOULDER BERM GUTTER
-Y1- 13+30.08 TO 14+82.79
-Y1- 14+41.57 TO 14+82.03
-Y1- 16+69.50 TO -SBL- 17+18.06
-Y1- 16+69.17 TO -NBL- 17+69.20

FOR -Y4- PROFILE SEE SHTS. 12 & 13
FOR -LWB- PROFILE SEE SHTS. 13 & 14
FOR -Y1- PROFILE SEE SHT. 15
FOR -NBL- PROFILE SEE SHT. 15
FOR -SBL- PROFILE SEE SHT. 16
FOR -Y3SR- PROFILE SEE SHT. 22
FOR -RPO- PROFILE SEE SHT. 16
FOR -LPB- PROFILE SEE SHT. 17
FOR -RPC- PROFILE SEE SHT. 17
FOR -RPD- PROFILE SEE SHT. 18
FOR -Y3- PROFILE SEE SHT. 19



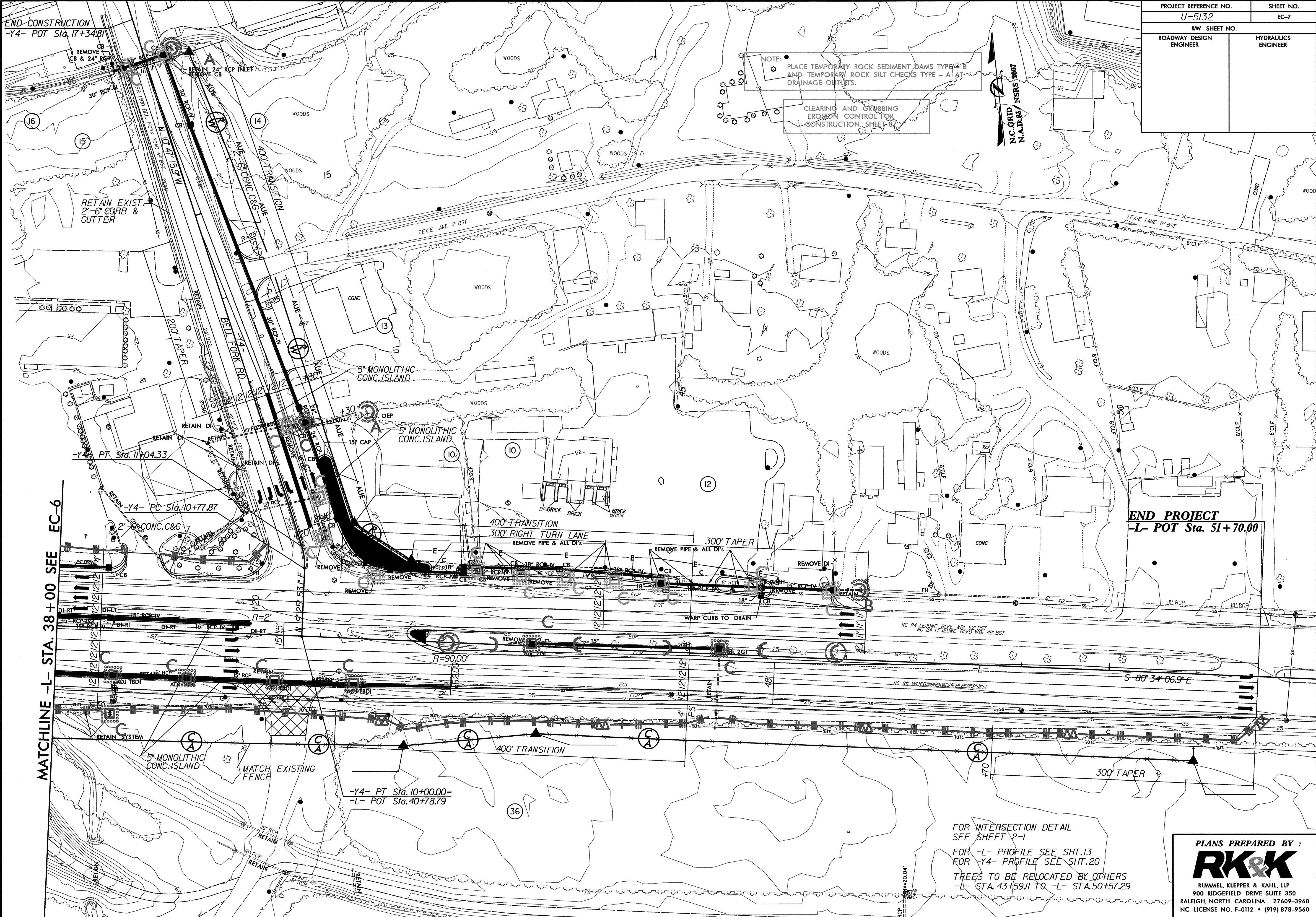
PLANS PREPARED BY:
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RICHARD KEPPNER & KANE, LLP
100 RICHMOND DRIVE SUITE 300
RALEIGH, NORTH CAROLINA 27609-3940
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DESIGNED BY:	CHECKED BY:
DATE:	DATE:

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8/17/99

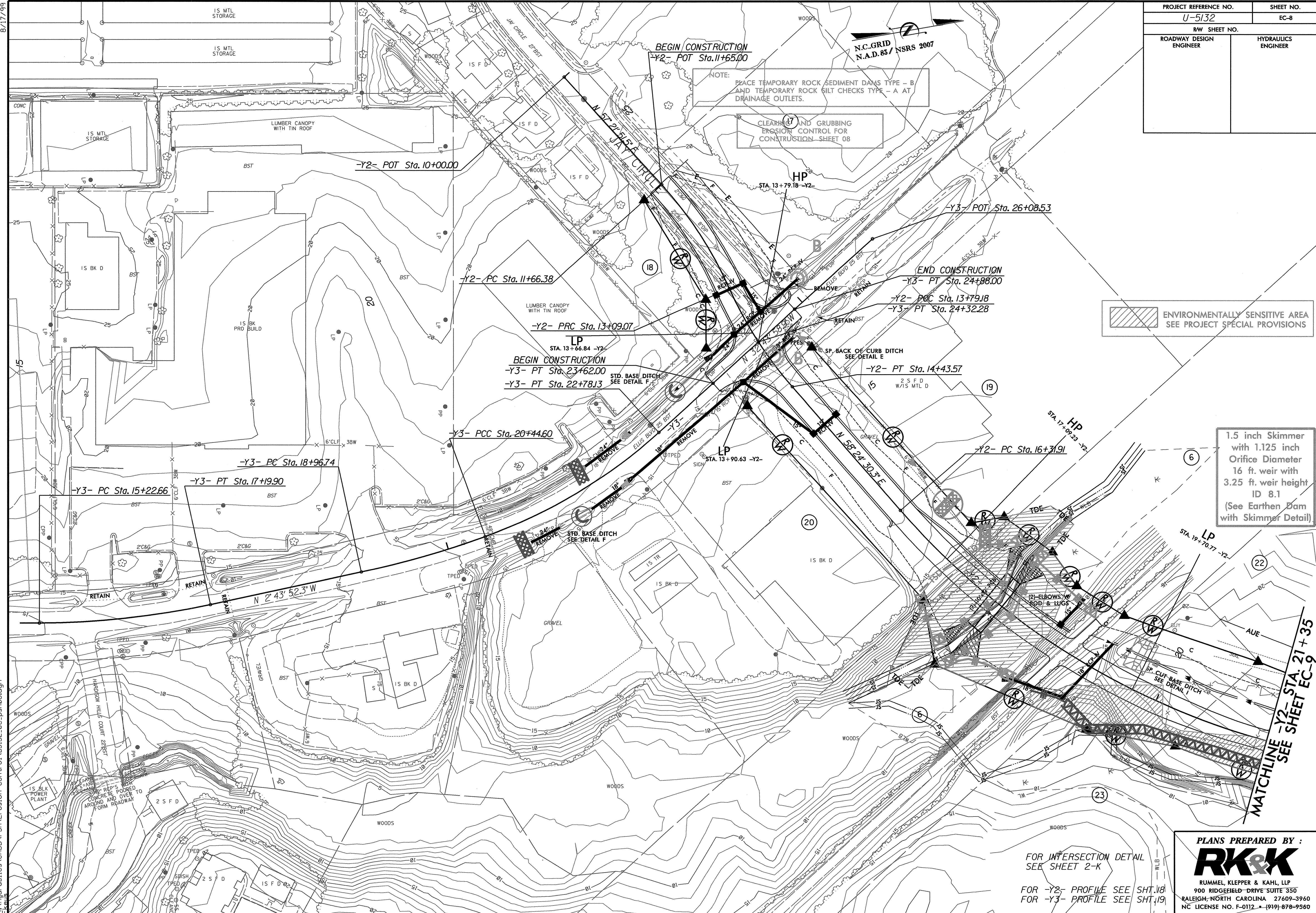
PROJECT REFERENCE NO. U-5132	SHEET NO. EC-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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8/17/99

PROJECT REFERENCE NO. U-5132	SHEET NO. EC-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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FOR INTERSECTION DETAIL
SEE SHEET 2-K

FOR -Y2- PROFILE SEE SHT. 18

FOR -Y3- PROFILE SEE SHT. 19

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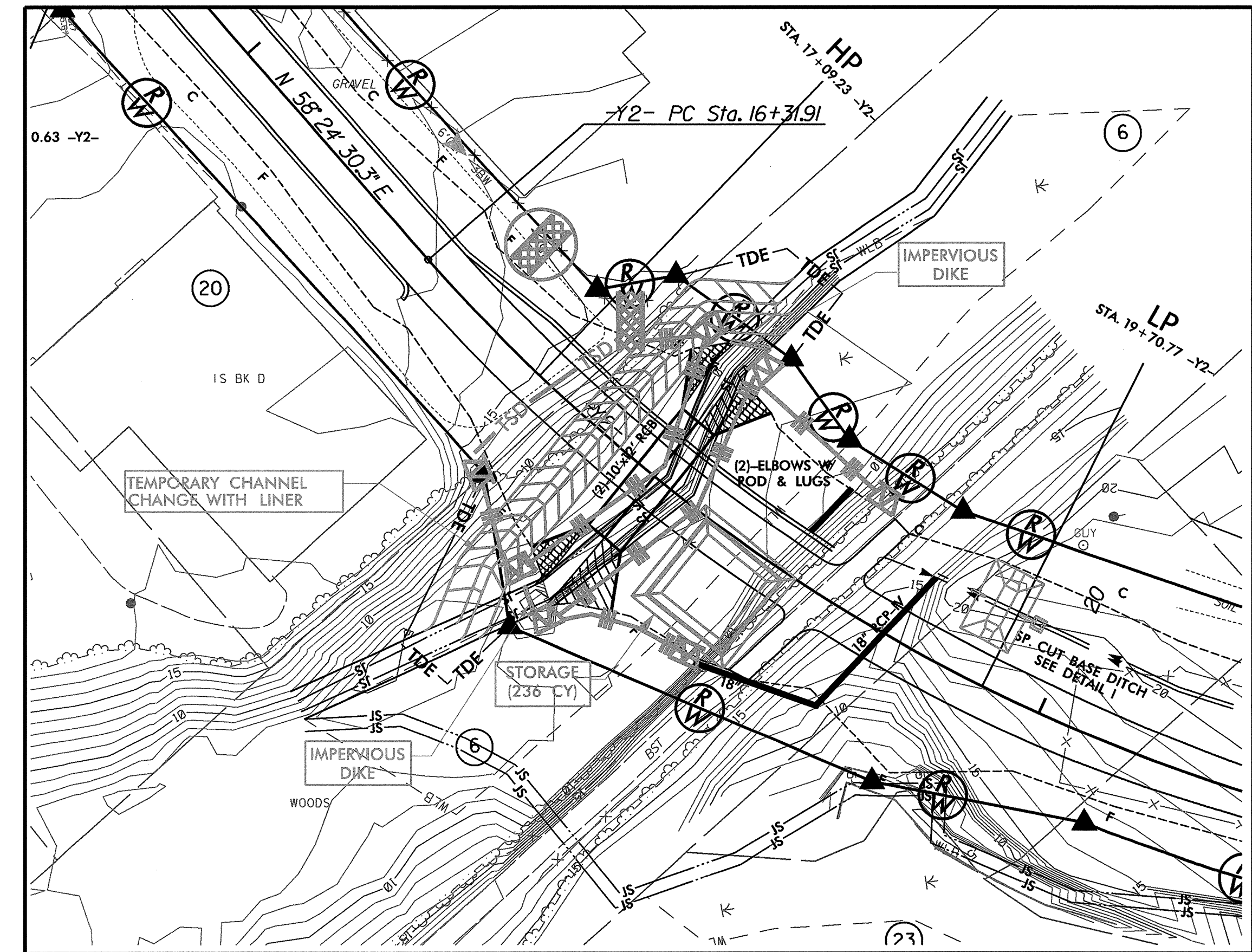
PROJECT REFERENCE NO.		SHEET NO.	
U-5132		EC-8A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

CULVERT CONSTRUCTION SEQUENCE STA. 17+83 -L-

PHASE I

1. CONSTRUCT 5' BASE, APPROX. 3' DEEP W3:1 SIDE SLOPES TEMPORARY CHANNEL CHANGE WITH GEOTEXTILE LINER FOR APPROXIMATELY 215 LF. TIE TO EXISTING CHANNEL. CONSTRUCT IMPERVIOUS DIKES AT EACH END OF WORK AREA. DIVERT EXISTING STREAM THROUGH DIVERSION CHANNEL.
2. INSTALL 36' x 36' STILLING BASIN OR SPECIAL STILLING BASIN WITH A CAPACITY OF 236 CY, AT APPROXIMATELY STA. 18+34 RT OF -Y2-.
3. CONSTRUCT ENTIRE LENGTH OF (2)-10'x12' RCBC.
4. USING PUMP AROUND OPERATIONS IN THE DRY SEASON, CONSTRUCT CHANNEL IMPROVEMENTS AT INLET AND OUTLET END OF THE CHANNEL. STABILIZE NEW CHANNEL IMPROVEMENTS.
5. PERMANENTLY DIVERT STREAM THROUGH NEW CULVERT.
6. BACK FILL TEMPORARY CHANNEL CHANGE, REMOVE ALL TEMPORARY APPARATUS AND CONSTRUCT ROADWAY EMBANKMENT.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.



FOR INTERSECTION DETAIL
SEE SHEET 2-K

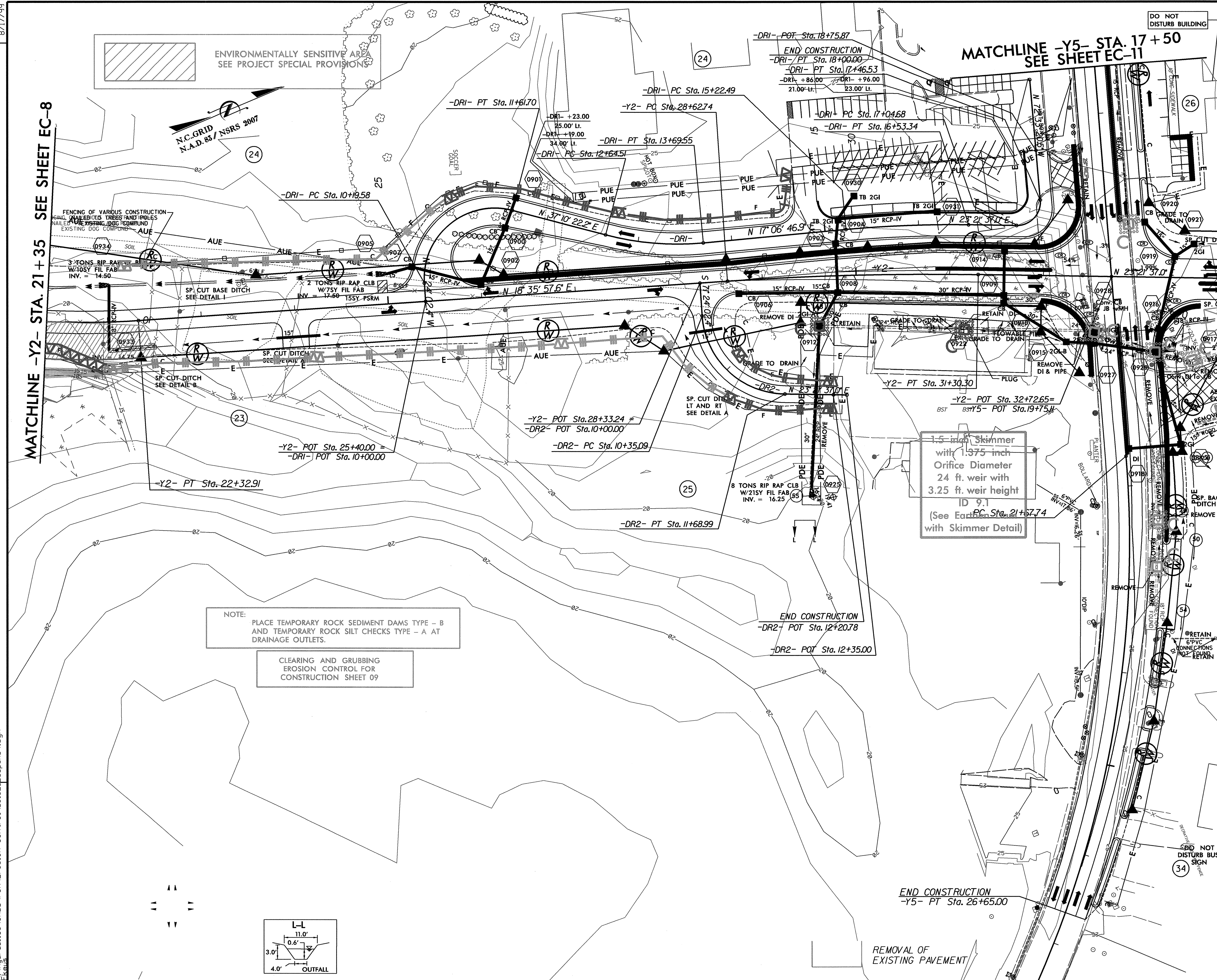
FOR -Y2- PROFILE SEE SHT.18
FOR -Y3- PROFILE SEE SHT.19

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PROJECT REFERENCE NO. U-5132	SHEET NO. EC-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



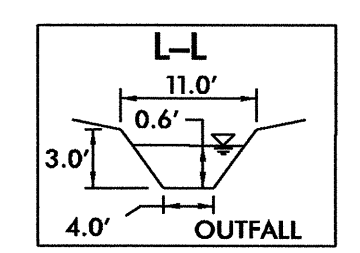
MATCHLINE -Y2- STA. 21 + 35 SEE SHEET EC-8

MATCHLINE -Y2- STA. 34 + 55 SEE SHEET EC-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 09

1.5" dia Skimmer
with 1.375" inch
Orifice Diameter
24 ft. weir with
3.25 ft. weir height
ID 9.1
(See Elevation Sta. 21+57.74
with Skimmer Detail)



SEE SHEET 2-L FOR
DRAINAGE DITCH DETAILS

FOR INTERSECTION DETAIL
SEE SHEET 2-J

FOR -Y2- PROFILE SEE SHTS. 18 & 19
FOR -Y5- PROFILE SEE SHT. 20
FOR -DRI- PROFILE SEE SHT. 21
FOR -DR2- PROFILE SEE SHT. 21

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REVISIONS

PARCEL 33 UPDATED PROPERTY OWNER NAME TO JULIE F. HENDERSON.

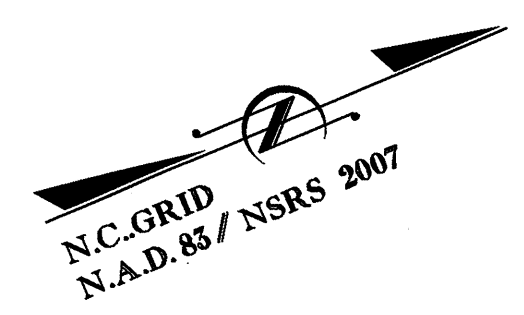
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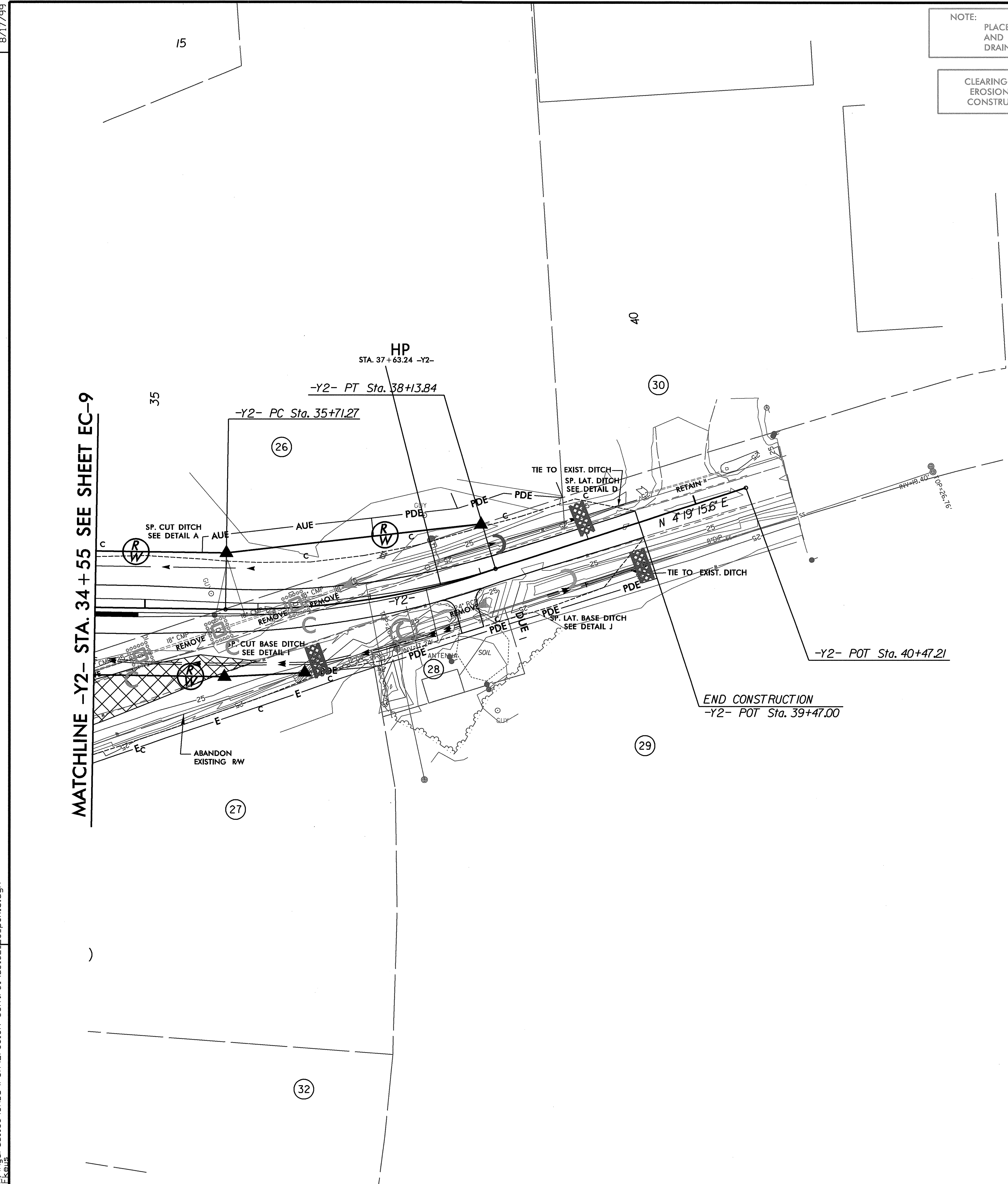
PROJECT REFERENCE NO.	SHEET NO.
U-5132	EC-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 10



MATCHLINE -Y2- STA. 34 + 55 SEE SHEET EC-9



REVISIONS
8/17/99
ADDED NOTE TO RIGHT SIDE OF -Y2- TO ABANDON EXISTING ROW. ADDED ROW MONUMENT AT -Y2- + 71.27 60' RT. AND TIED ROW LINE FROM -Y2- + 00.00 60' RT. TO IT.
CONTINUED ROW LINE TO TIE TO -Y2- + 37.00 ROW.
8/8/2012
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REMOVAL OF
EXISTING PAVEMENT

SEE SHEET 2-L FOR
DRAINAGE DITCH DETAILS

FOR -Y2- PROFILE SEE SHTS. 18 & 19

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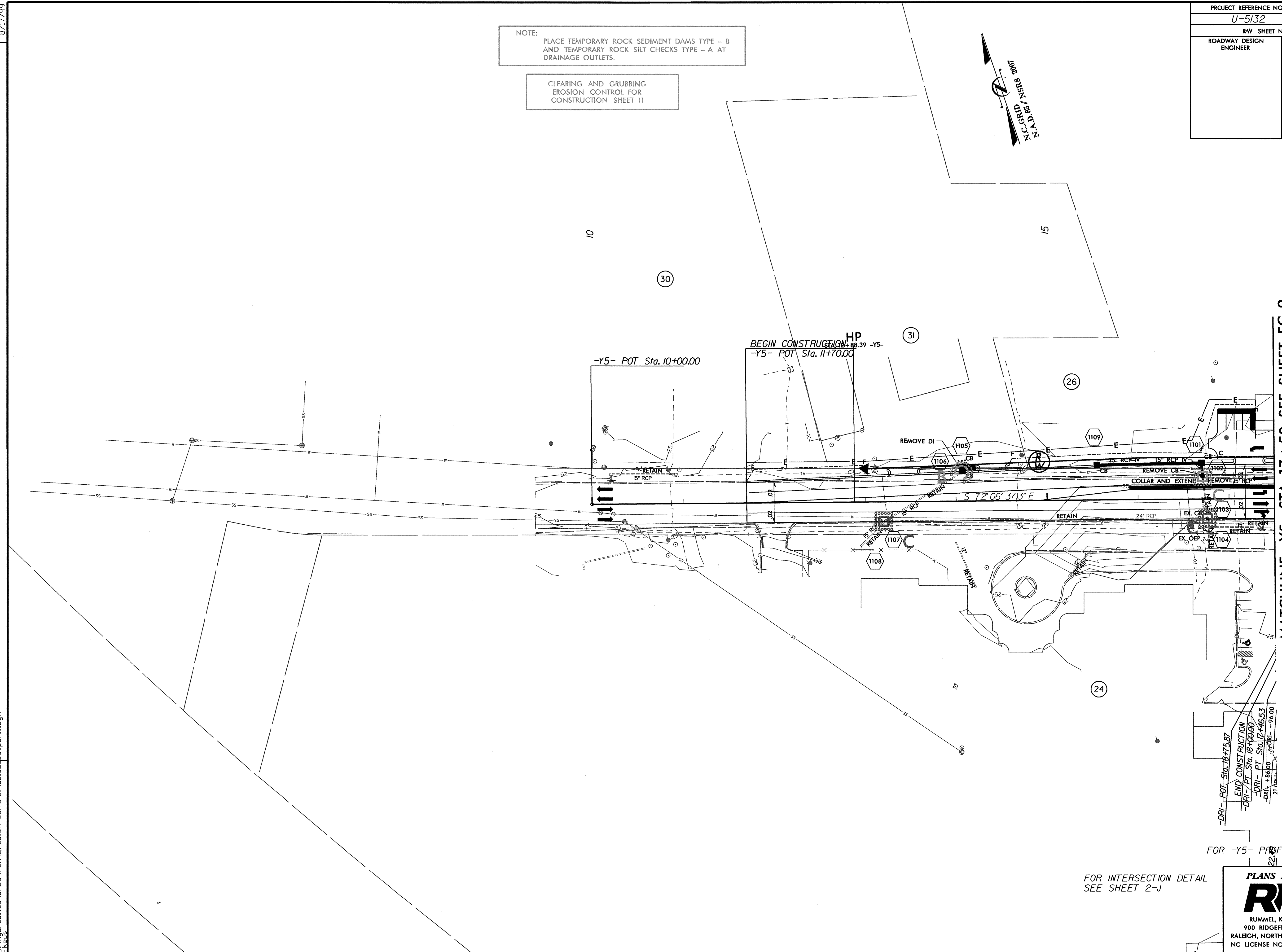
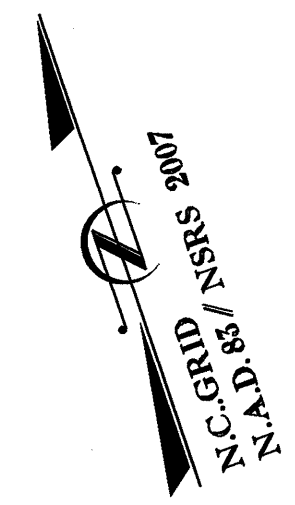
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PROJECT REFERENCE NO.	SHEET NO.
U-5132	EC-11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 11



MATCHLINE -Y5- STA. 17 + 50 SEE SHEET EC-9

FOR -Y5- PROFILE SEE SHT. 20

FOR INTERSECTION DETAIL
SEE SHEET 2-J

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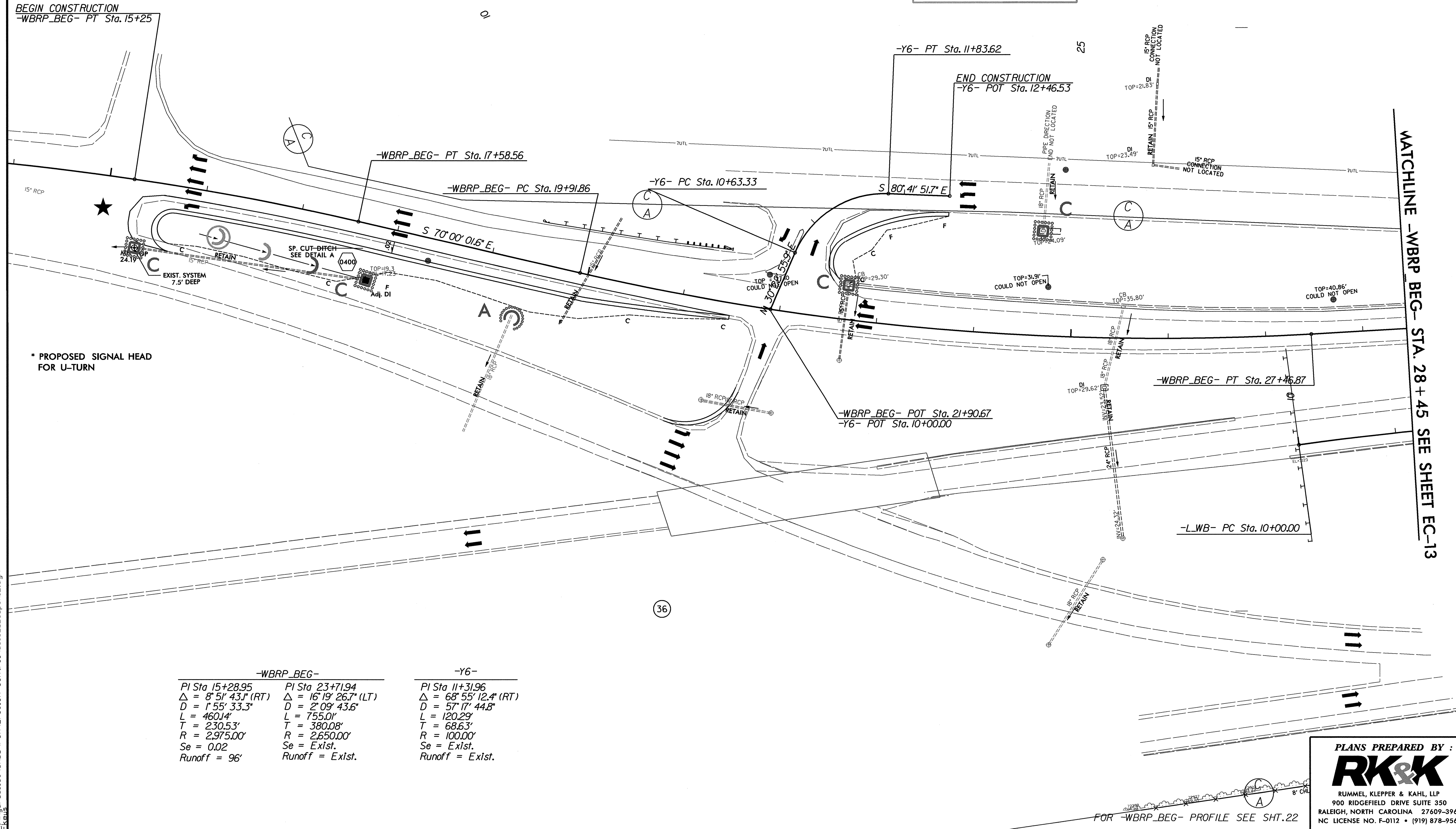
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8/17/99

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
U-5132		EC-12SHT. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.



* PROPOSED SIGNAL HEAD FOR U-TURN

-WBRP_BEG-		-Y6-
PI Sta 15+28.95	PI Sta 23+71.94	PI Sta 11+31.96
$\Delta = 8^{\circ} 51' 43.1''$ (RT)	$\Delta = 16^{\circ} 19' 26.7''$ (LT)	$\Delta = 68^{\circ} 55' 12.4''$ (RT)
D = 1,553.33'	D = 2,094.43'	D = 57' 17" 44.8"
L = 460.14'	L = 755.01'	L = 120.29'
T = 230.53'	T = 380.08'	T = 68.63'
R = 2,975.00'	R = 2,650.00'	R = 100.00'
Se = 0.02	Se = Exist.	Se = Exist.
Runoff = 96'	Runoff = Exist.	Runoff = Exist.

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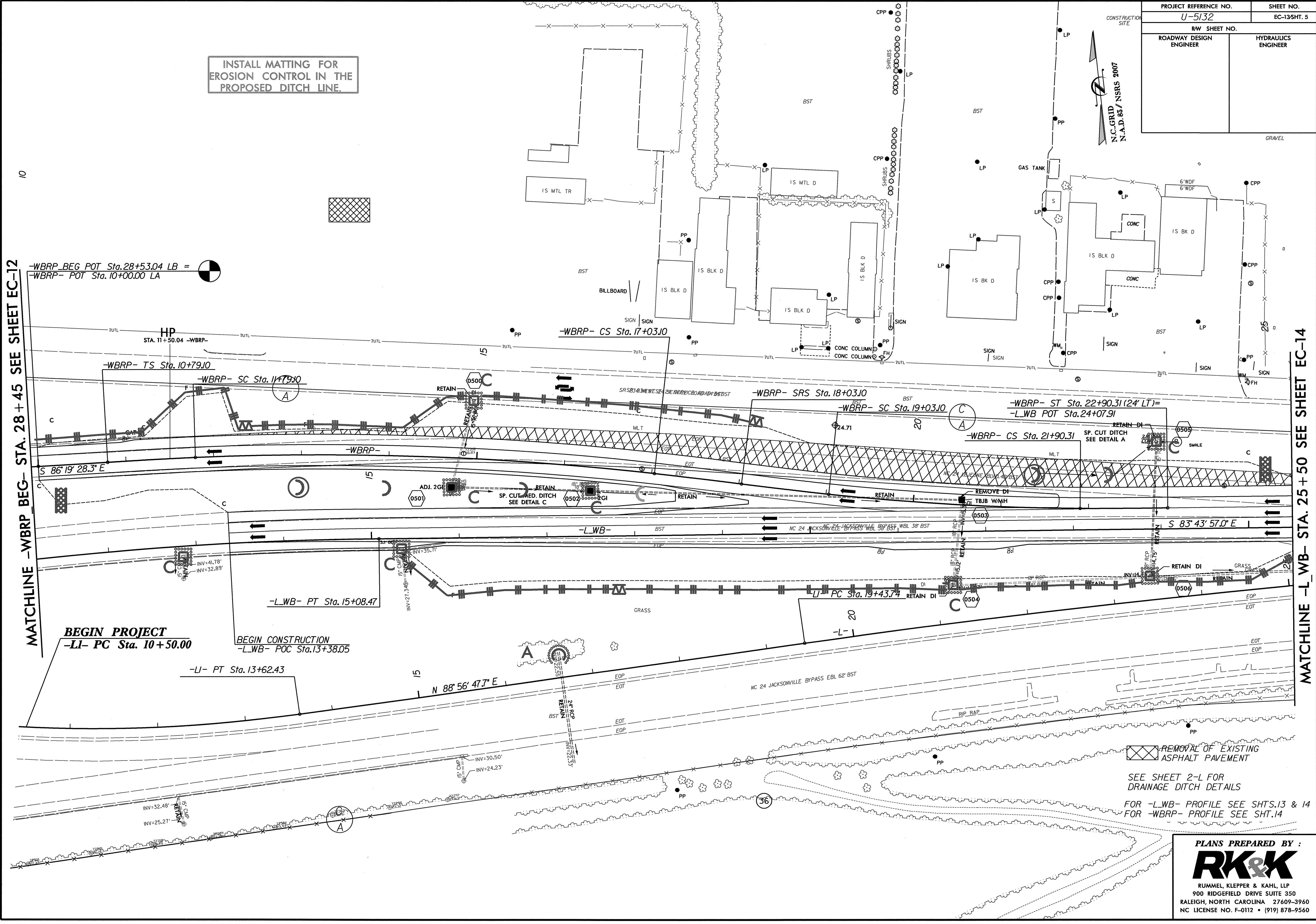
FOR -WBRP_BEG- PROFILE SEE SHT. 22

8/17/99

PROJECT REFERENCE NO. U-5132		SHEET NO. EC-13/SHT. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

CONSTRUCTION SITE
N.C. GRID
N.A.D. 83 / NSRS 2007



MATCHLINE -WBWP BEG- STA. 28 + 45 SEE SHEET EC-12

MATCHLINE -LWB- STA. 25 + 50 SEE SHEET EC-14

BEGIN PROJECT
-LI- PC Sta. 10+50.00

BEGIN CONSTRUCTION
-LWB- POC Sta. 13+38.05

-LI- PT Sta. 13+62.43

-LWB- PT Sta. 15+08.47

-WBWP- CS Sta. 17+03.10

-WBWP- SRS Sta. 18+03.10

-WBWP- SC Sta. 19+03.10

-WBWP- ST Sta. 22+90.31 (24' LT) =
-LWB POT Sta. 24+07.91

-WBWP- CS Sta. 21+90.31

-LI- PC Sta. 19+43.74

REMOVAL OF EXISTING ASPHALT PAVEMENT

SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS

FOR -LWB- PROFILE SEE SHTS. 13 & 14
FOR -WBWP- PROFILE SEE SHT. 14

PLANS PREPARED BY :

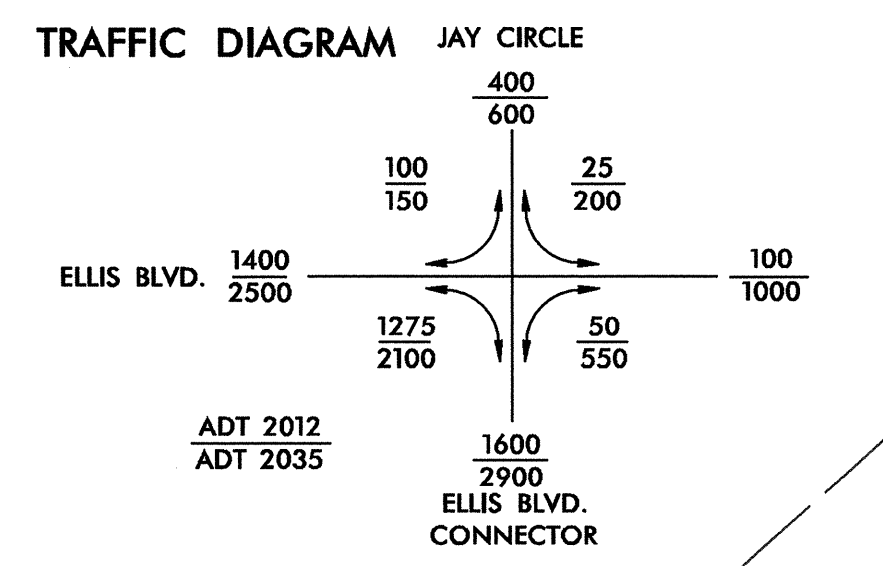
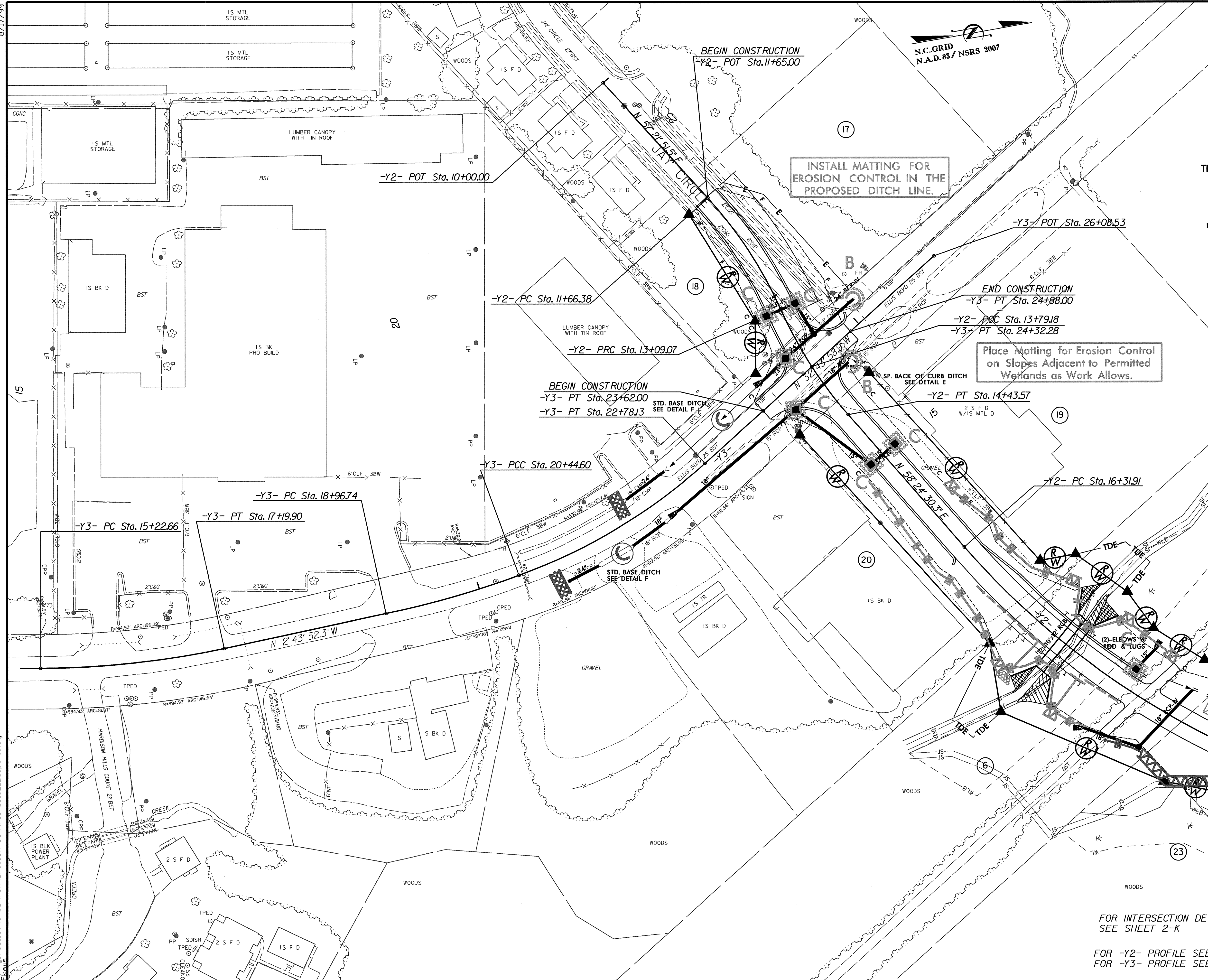
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8/17/99
2/8/2012
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PROJECT REFERENCE NO. <i>U-5132</i>	SHEET NO. EC-16SHT. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
16 ft. weir with
3.25 ft. weir height
ID 8.1
(See Earthen Dam
with Skimmer Detail)

MATCHLINE -Y2- STA. 21+35
SEE SHEET EC-17

FOR INTERSECTION DETAIL
SEE SHEET 2-K
FOR -Y2- PROFILE SEE SHT. 18
FOR -Y3- PROFILE SEE SHT. 19

PLANS PREPARED BY :

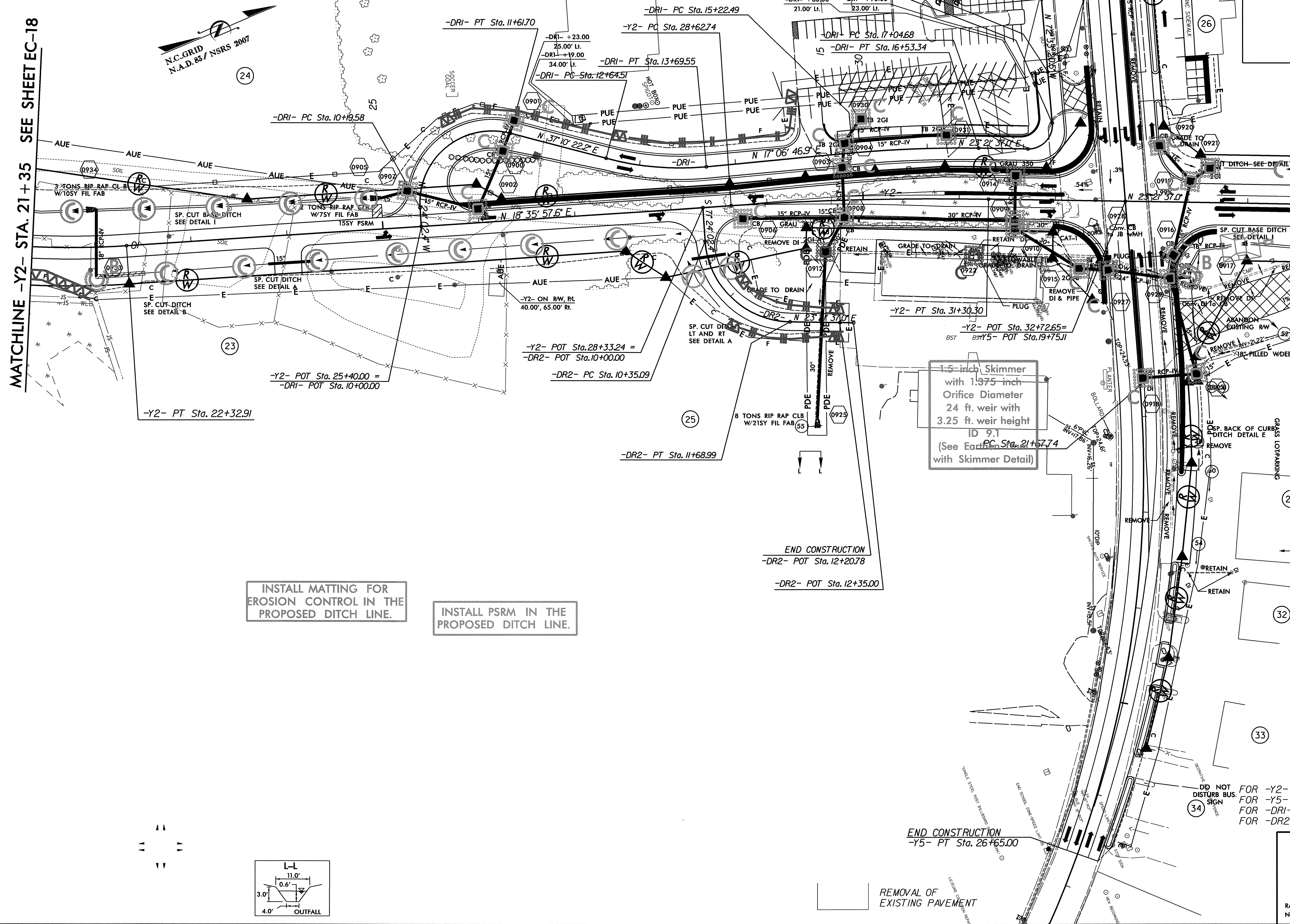
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

PROJECT REFERENCE NO.	SHEET NO.
U-5132	EC-17/SHT. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

MATCHLINE -Y2- STA. 21+35 SEE SHEET EC-18

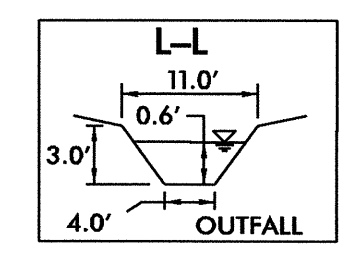
MATCHLINE -Y2- STA. 34+55 SEE SHEET EC-18



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

INSTALL PSRM IN THE PROPOSED DITCH LINE.

1.5-inch Skimmer with 1.375-inch Orifice Diameter
24 ft. weir with 3.25 ft. weir height
ID 9.1
(See Elevation Sta. 21+57.74 with Skimmer Detail)



END CONSTRUCTION
-Y5- PT Sta. 26+65.00

REMOVAL OF EXISTING PAVEMENT

DO NOT DISTURB BUS SIGN

FOR -Y2- PROFILE SEE SHTS.18 & 19
FOR -Y5- PROFILE SEE SHT.20
FOR -DRI- PROFILE SEE SHT.21
FOR -DR2- PROFILE SEE SHT.21

SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS

FOR INTERSECTION DETAIL SEE SHEET 2-J

PLANS PREPARED BY :

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REVISIONS

PARCEL 33 UPDATED PROPERTY OWNER NAME TO JULIE F. HENDERSON.

2/8/2012 C:\Hydro\aut\ca\CADD\PSH\Erosion Contr\o1\5132 EC.psh17.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-5132	EC-18SHT. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

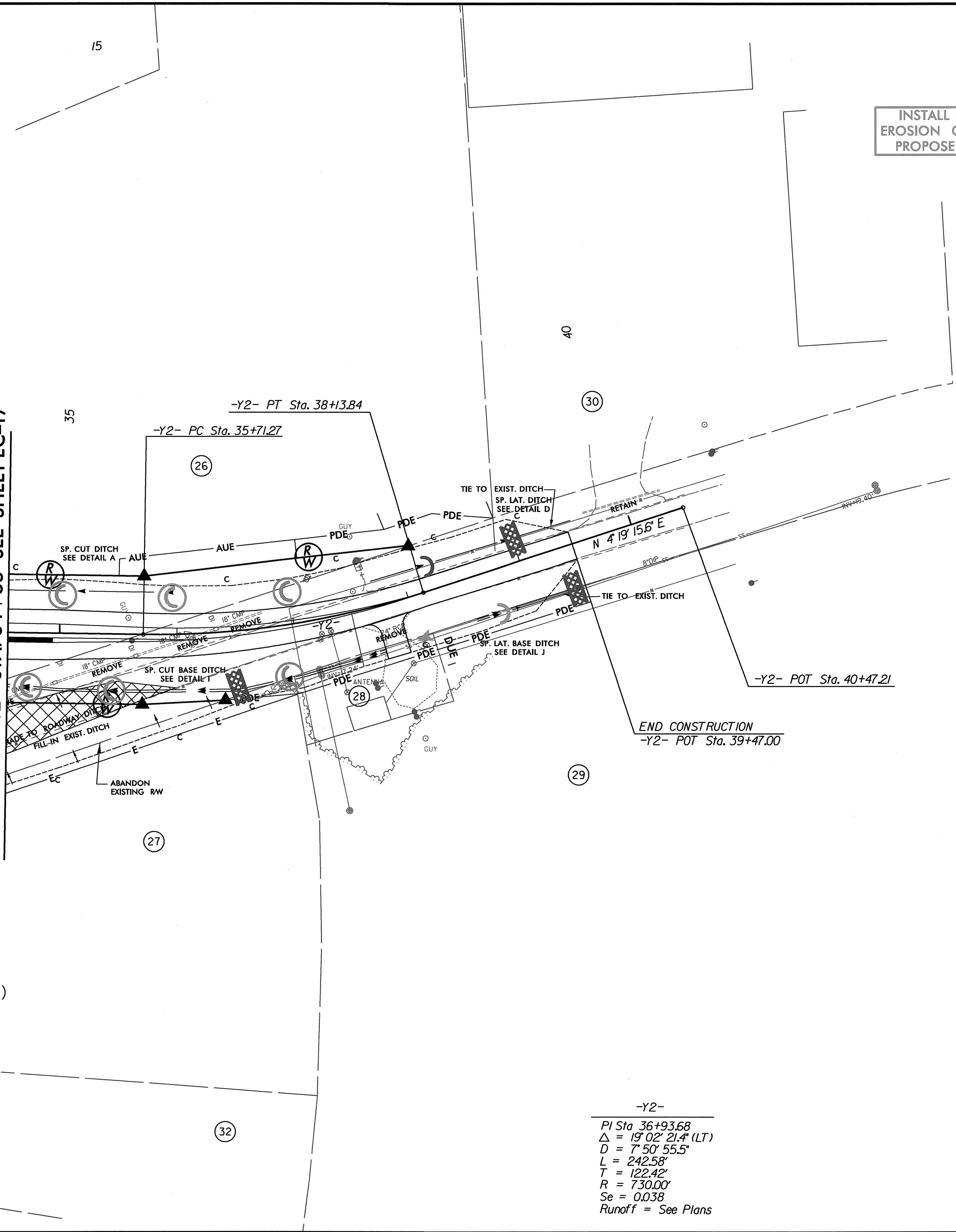
REVISIONS

--- ADDED NOTE TO RIGHT SIDE OF -Y2- TO ABANDON EXISTING ROW. ADDED ROW MONUMENT AT -Y2- + 71.27 60' RT. AND TIED ROW LINE FROM -Y2- + 00.00 60' RT. TO IT. CONTINUED ROW LINE TO TIE TO -Y2- + 37.00 ROW.

8/17/99

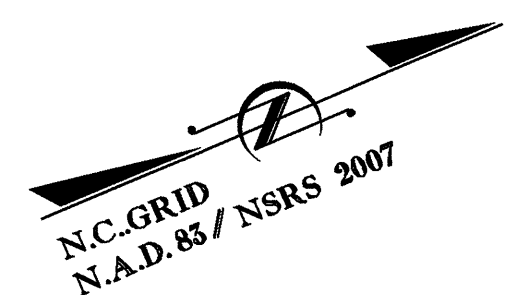
2/8/2012 C:\Ingridraulica\CADD\PSH\EROSION Control\U5132 EC.psh18.dgn

MATCHLINE -Y2- STA. 34 + 55 SEE SHEET EC-17



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

INSTALL PSRM IN THE PROPOSED DITCH LINE.



-Y2-
 PI Sta 36+93.68
 $\Delta = 19^{\circ} 02' 21.4\" (LT)$
 $D = 7^{\circ} 50' 55.5\"$
 $L = 242.58'$
 $T = 122.42'$
 $R = 730.00'$
 $Se = 0.038$
 Runoff = See Plans

REMOVAL OF EXISTING PAVEMENT

SEE SHEET 2-L FOR DRAINAGE DITCH DETAILS

FOR -Y2- PROFILE SEE SHTS. 18 & 19

PLANS PREPARED BY :

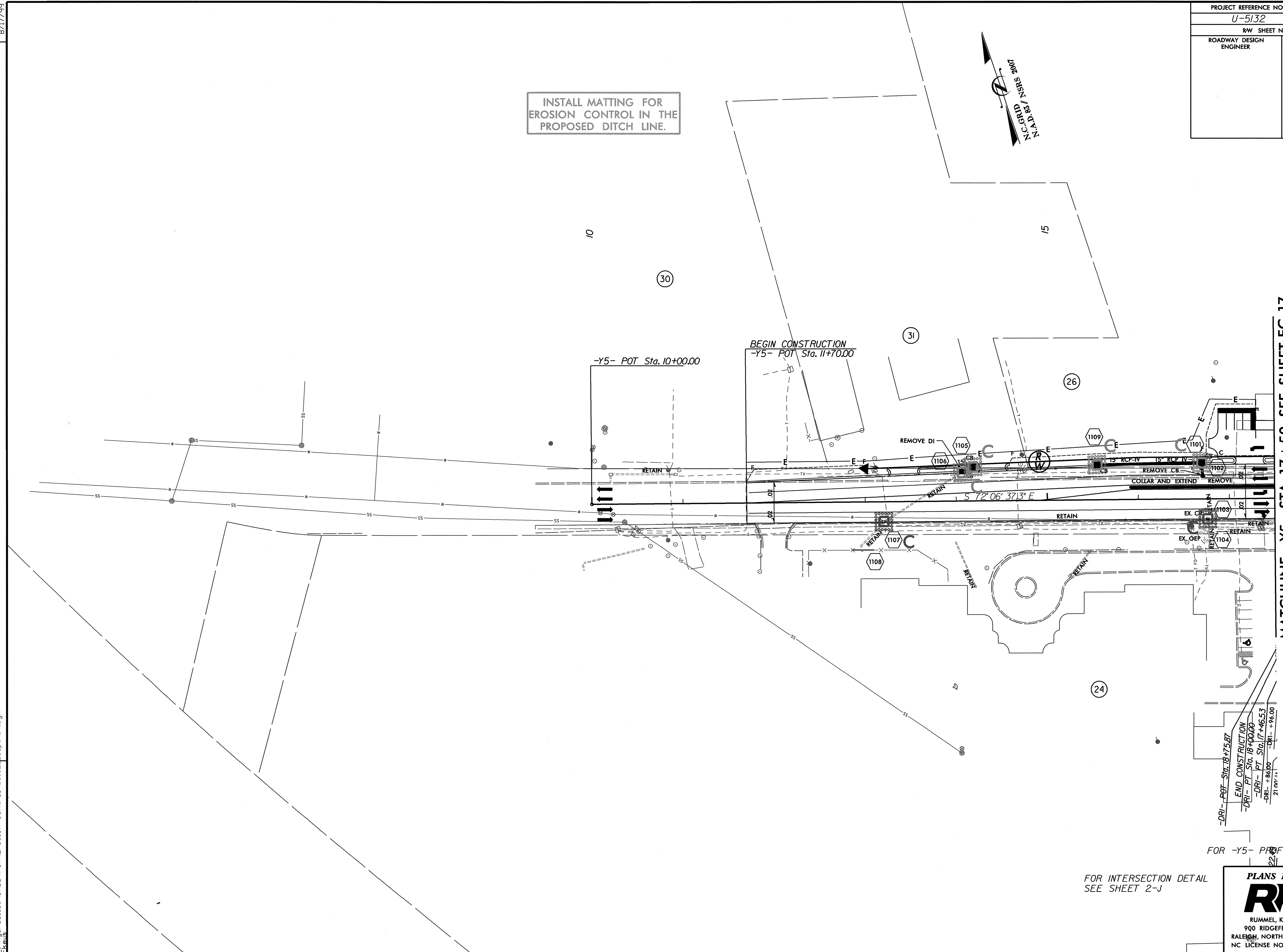
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PROJECT REFERENCE NO. U-5132	SHEET NO. EC-19/SHT. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.



MATCHLINE -Y5- STA. 17 + 50 SEE SHEET EC-17

-DRI- POT- Sta. 13+75.87
 END CONSTRUCTION
 -DRI- PT Sta. 18+00.00
 -DRI- PT Sta. 17+46.53
 -DRI- +86.00
 21.00' ±

FOR -Y5- PROFILE SEE SHT. 20

FOR INTERSECTION DETAIL
 SEE SHEET 2-J

PLANS PREPARED BY :

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REVISIONS

B/17/99
 8/8/2012
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