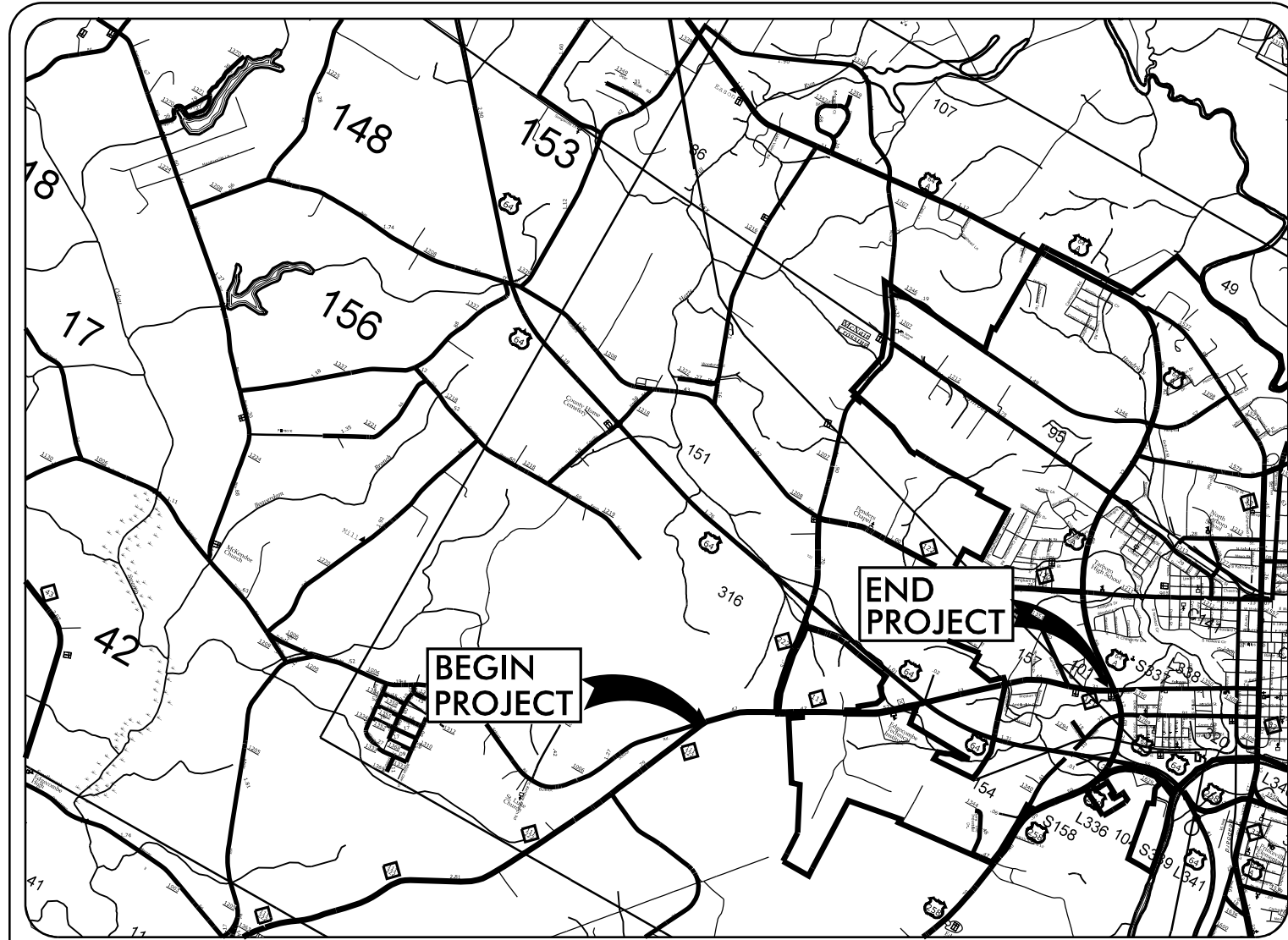


TIP PROJECT: U-4424



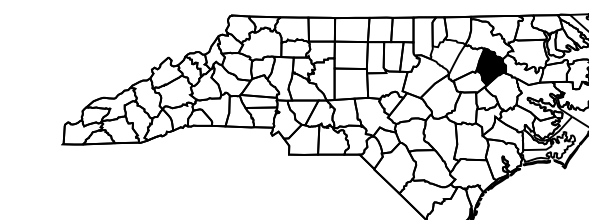
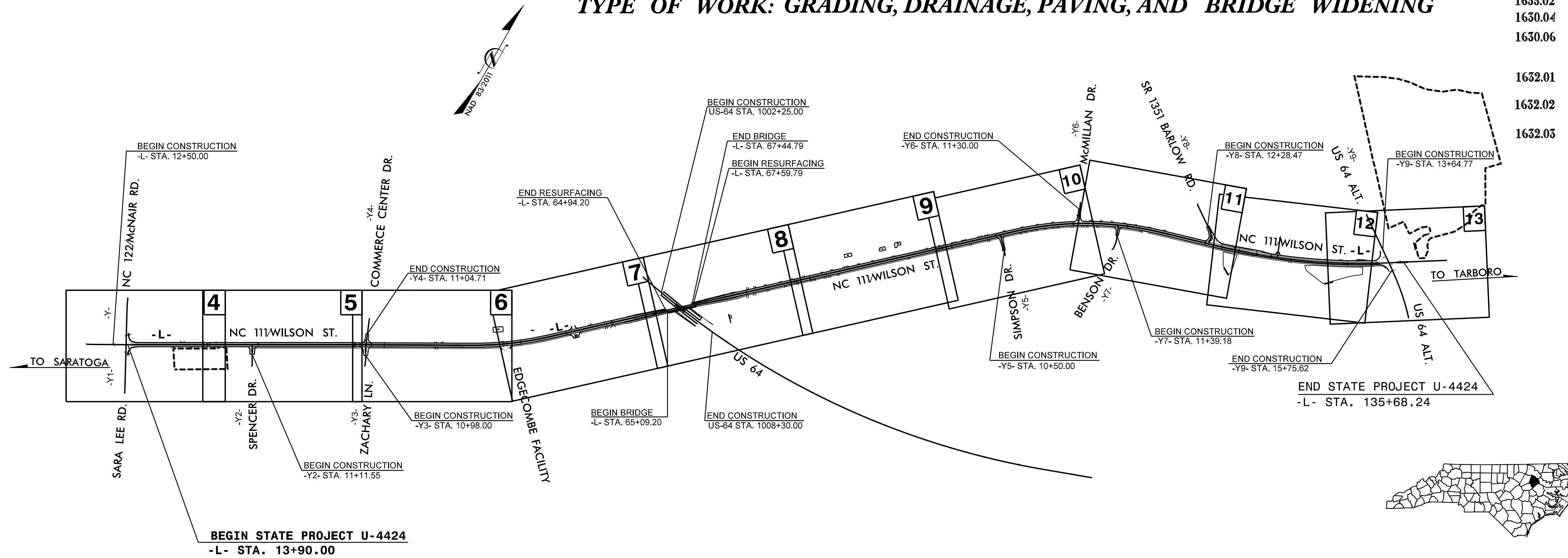
VICINITY MAP
NOT TO SCALE

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

EDGECOMBE COUNTY

**LOCATION: NC 111 (WILSON STREET) FROM NC 122 (MCNAIR ROAD) TO
US 64 ALTERNATE (WESTERN BOULEVARD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND BRIDGE WIDENING



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4424	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

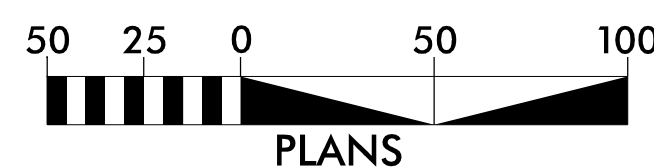
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	▲
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▨
	Wattle/Coir Fiber Wattle	▨
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	▨
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT**
*Refer To E. C. Special Provisions
for Special Considerations.*

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

GRAPHIC SCALE



**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:



WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

Designed by:

Vidya Mohandas, P.E.
NAME

3404
LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

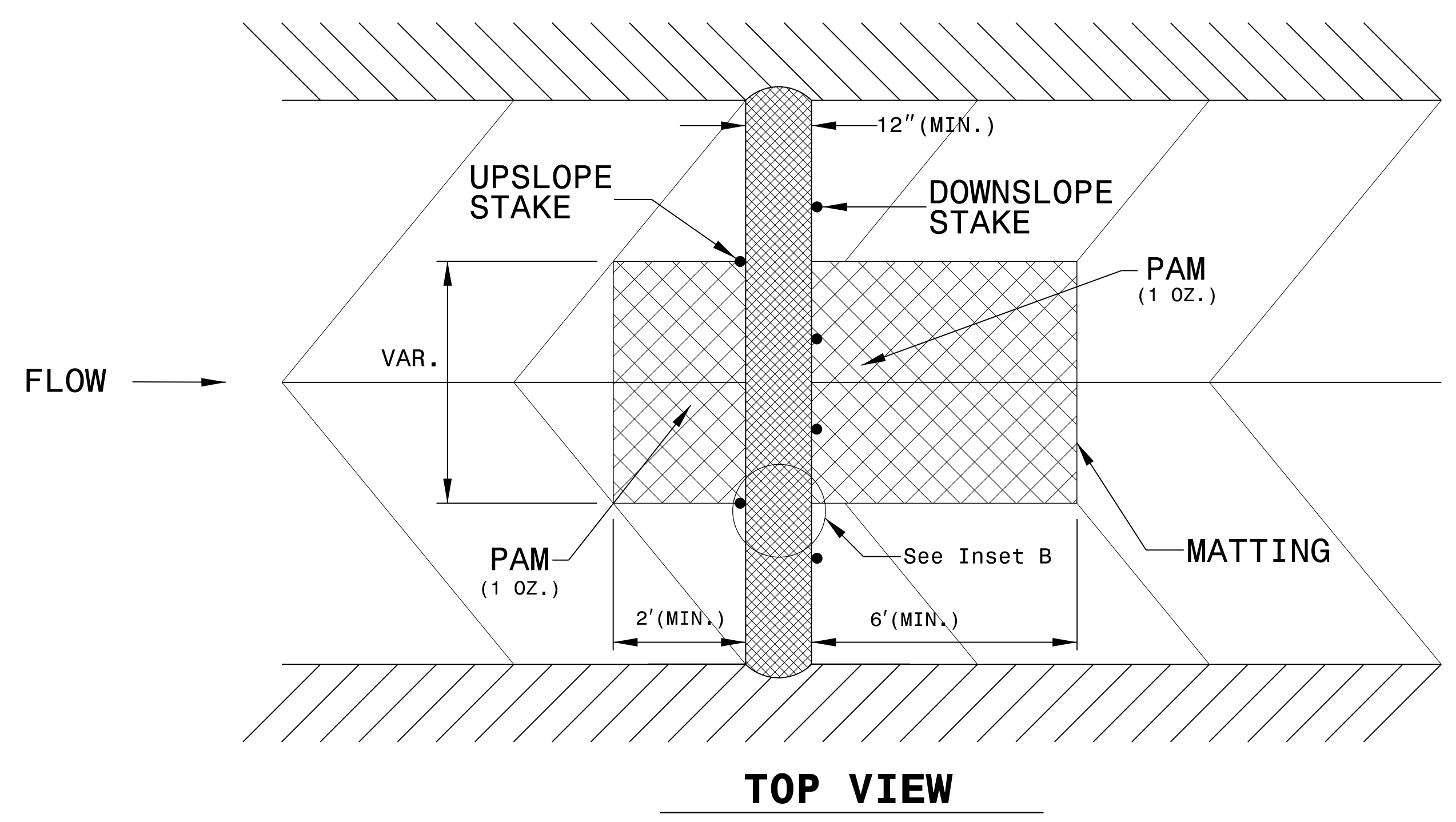
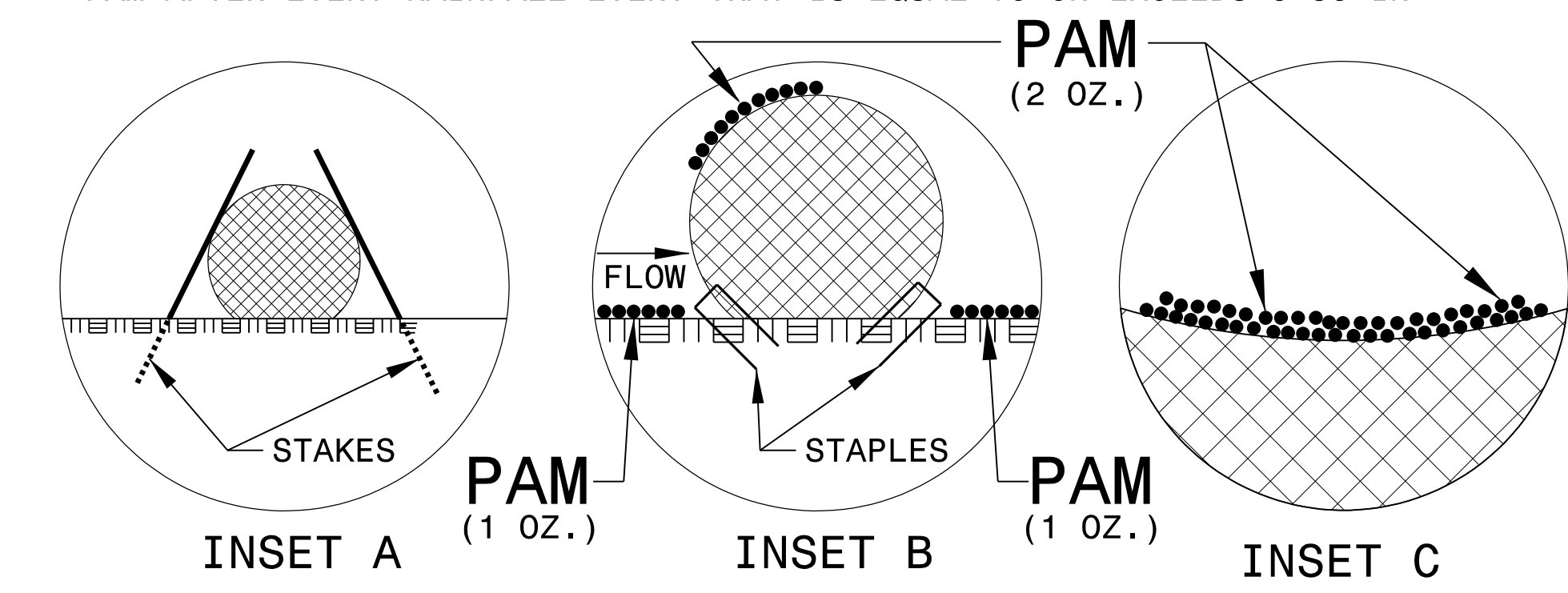
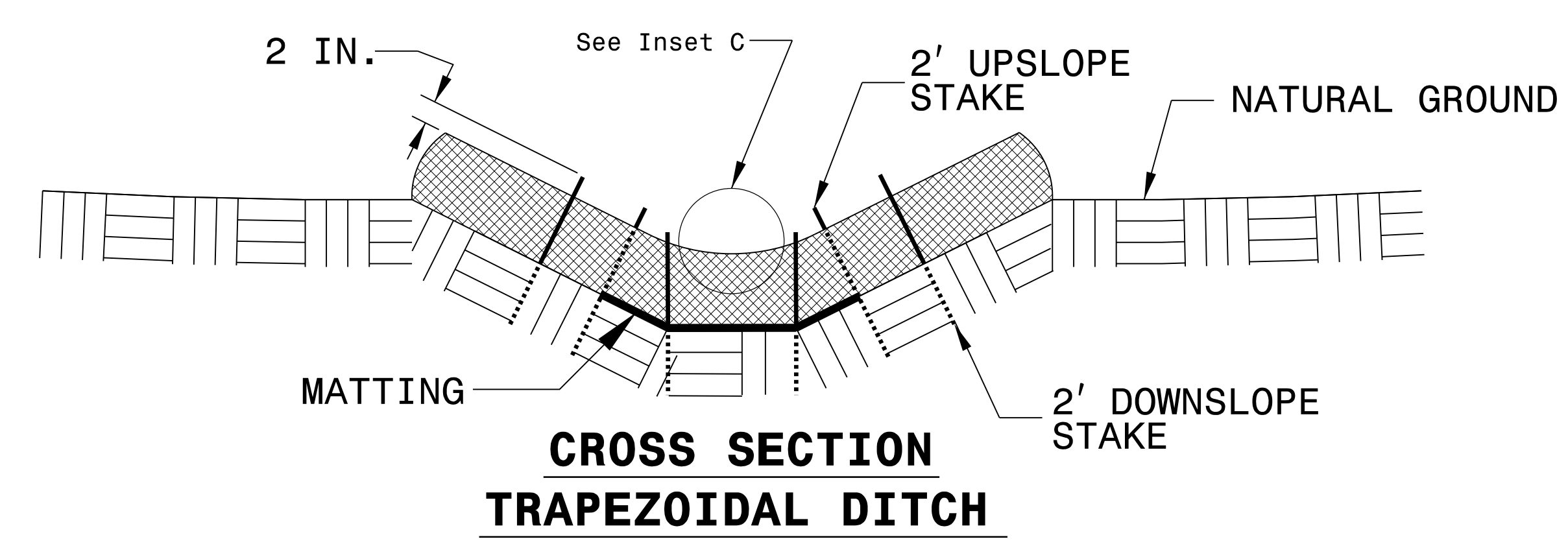
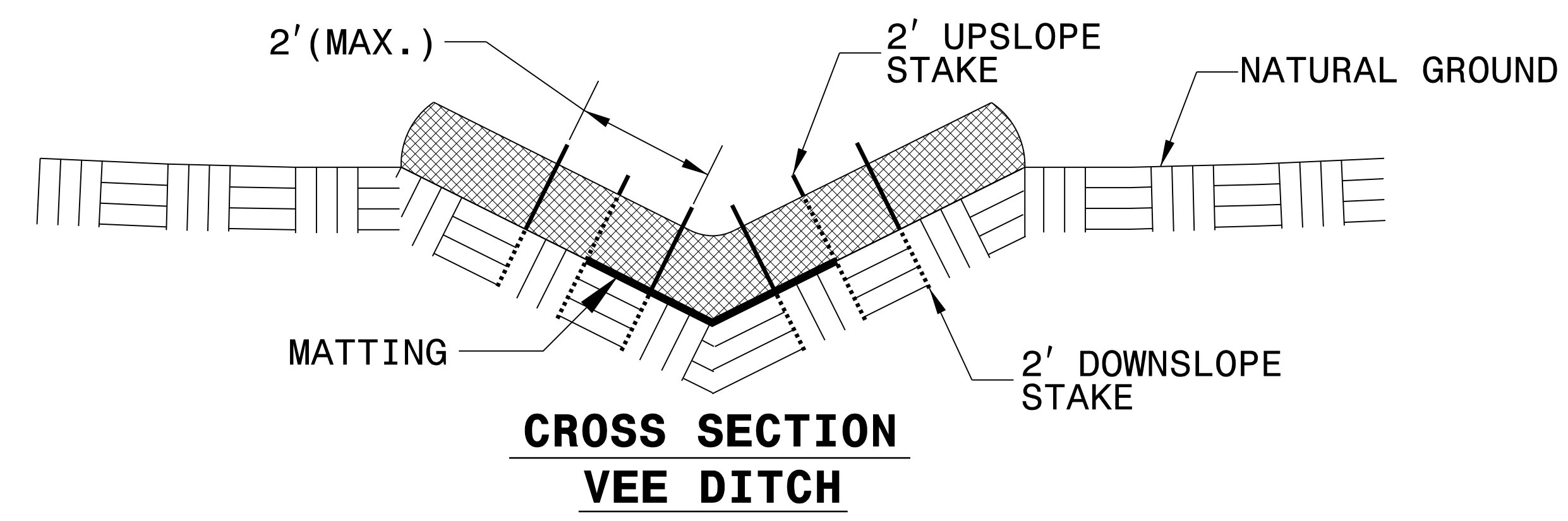
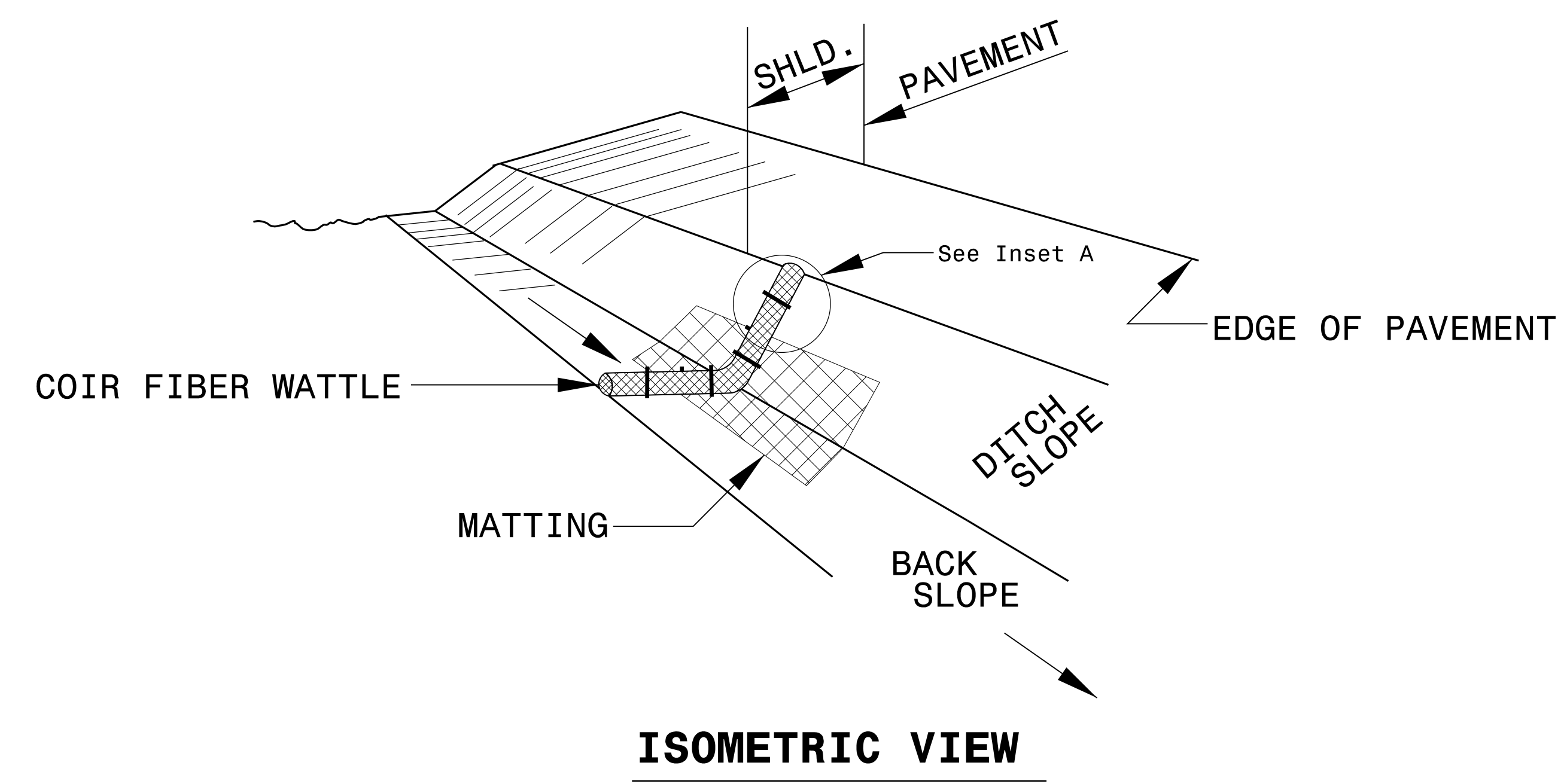
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. U-4424	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

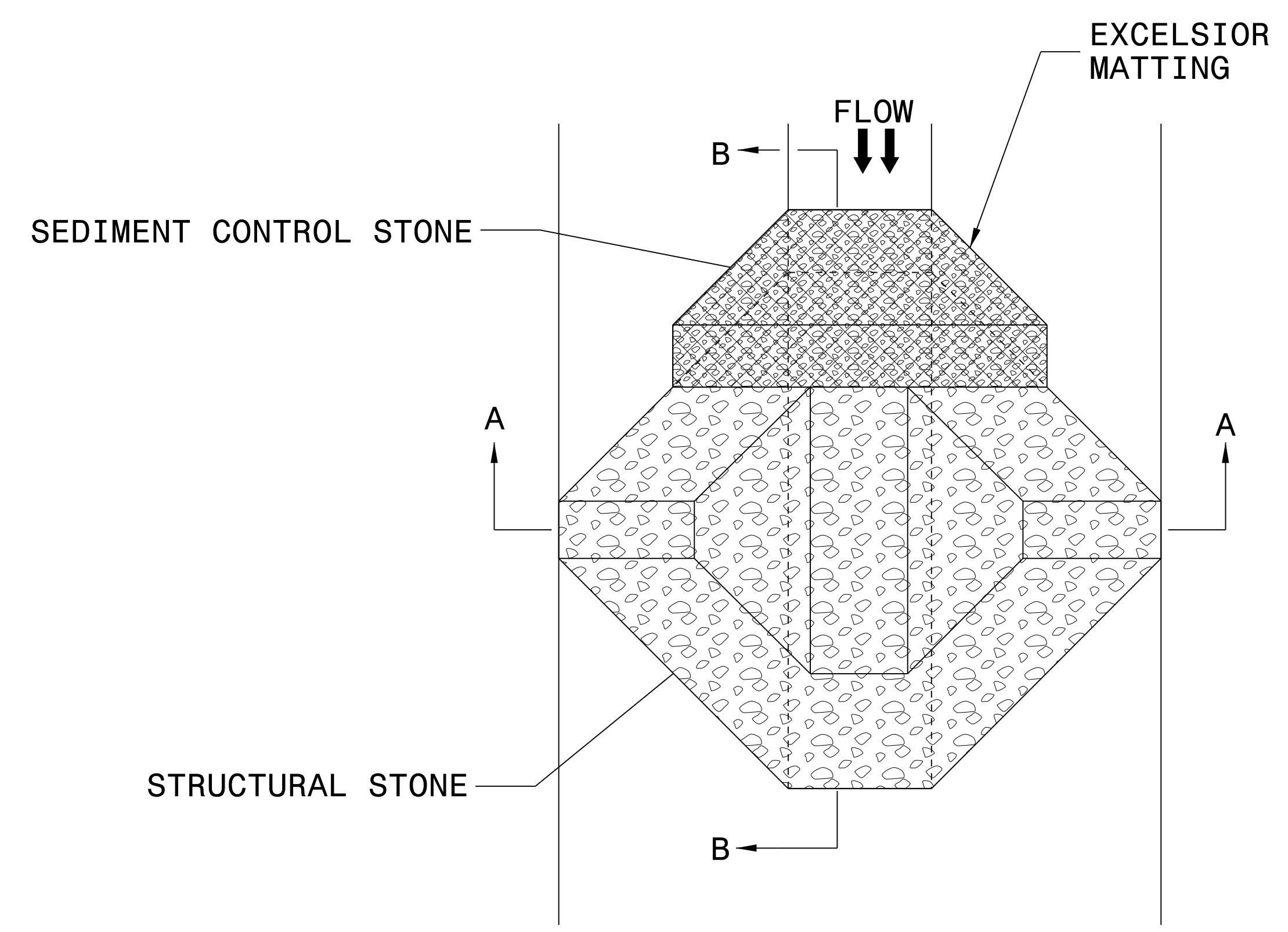
NOTES:

- 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. U-4424	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

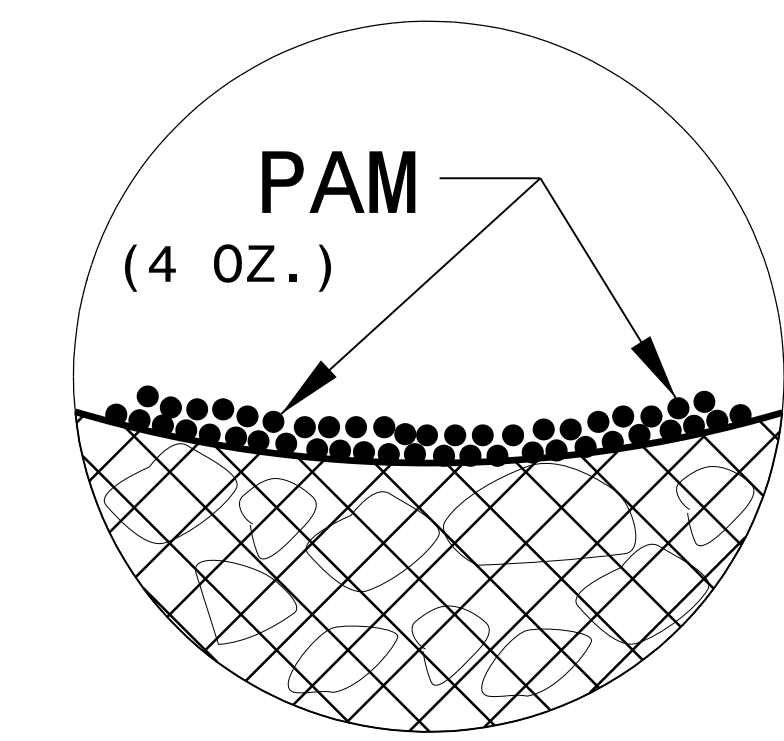
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

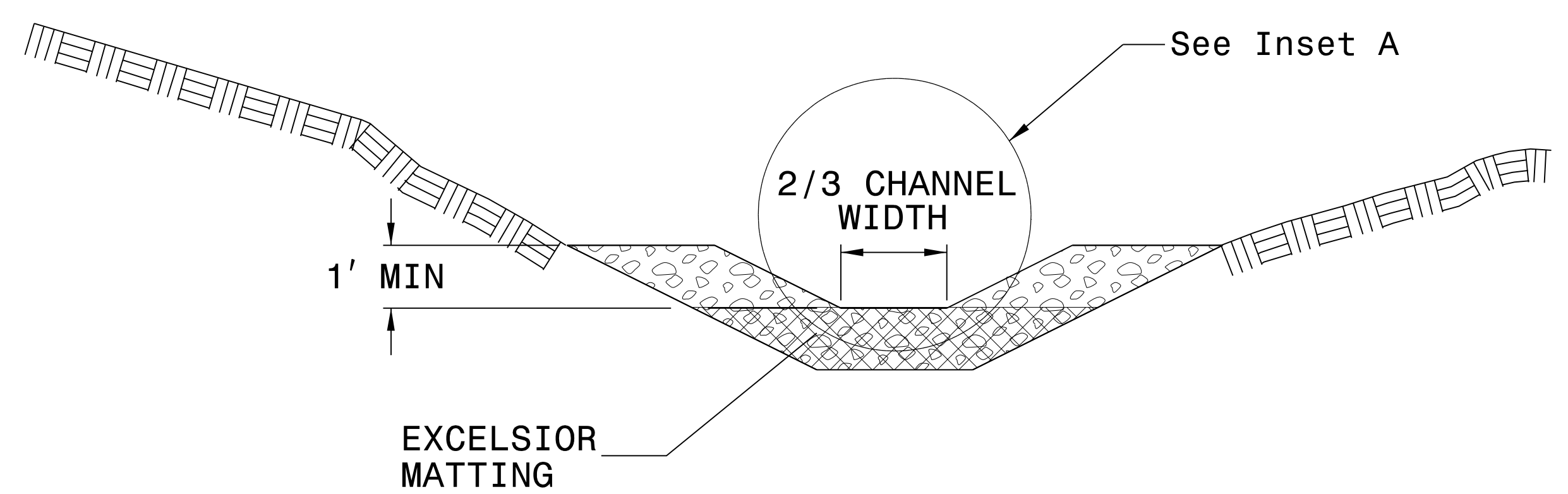
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

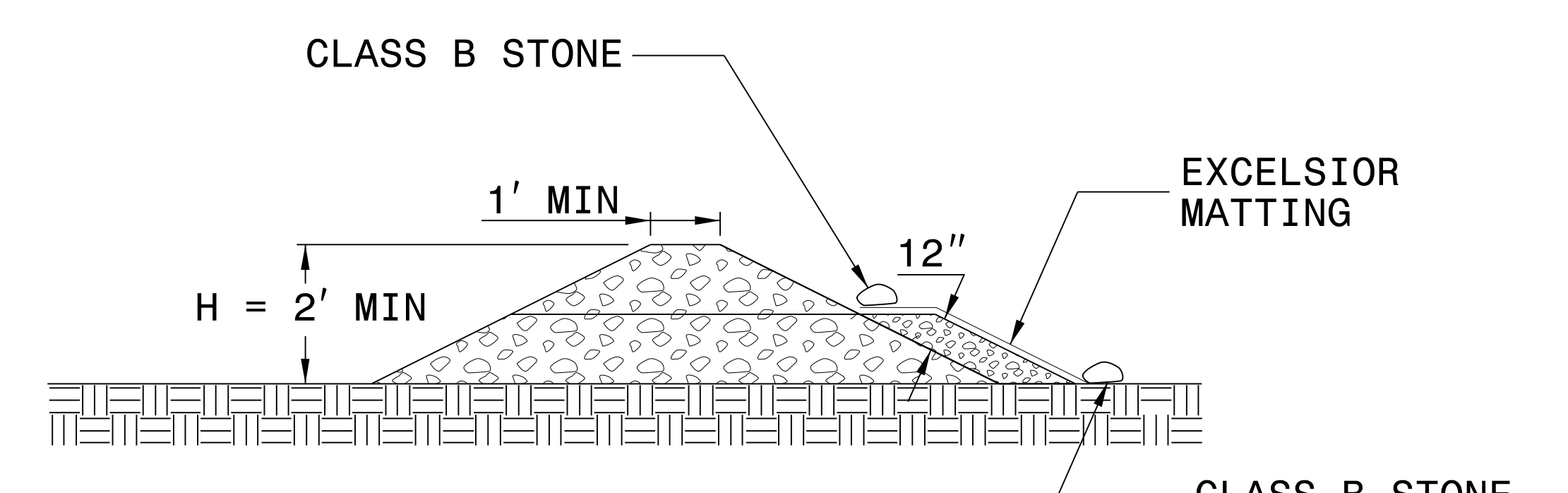
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-4424</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

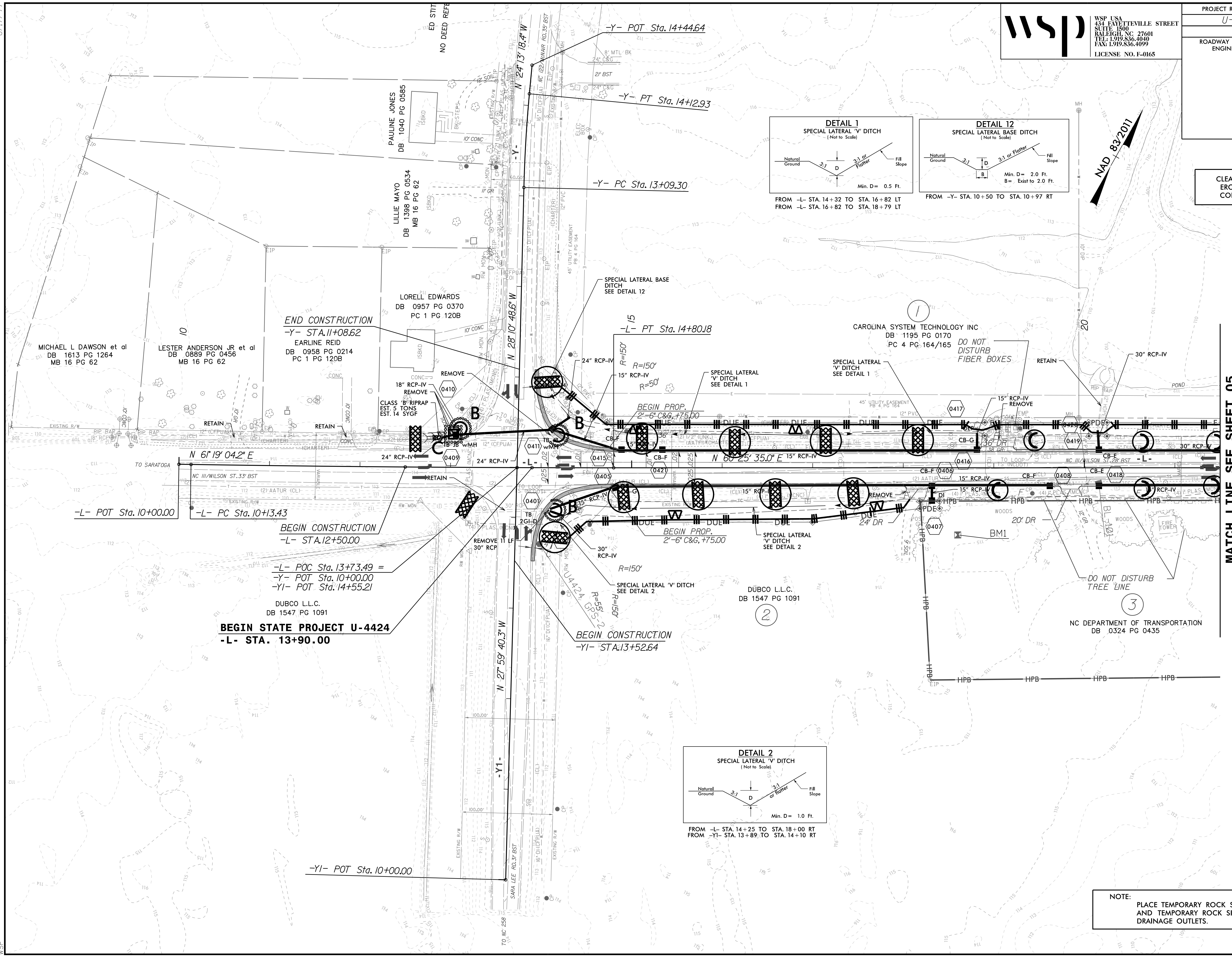
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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
06-APR-2023 10:13
SERVISOR CONTROL\CADD\U4424_EC_psh4_CG.dgn
WSP

WSP
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
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FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4




MATCH LINE SEE SHEET 05
-L- STA. 21+50.00

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

8/17/99
06-APR-2023 10:13
SERGIOR CONTROL\CADD\U4424_EC_psh5_CG.dgn
WSP

PLANS PREPARED BY:



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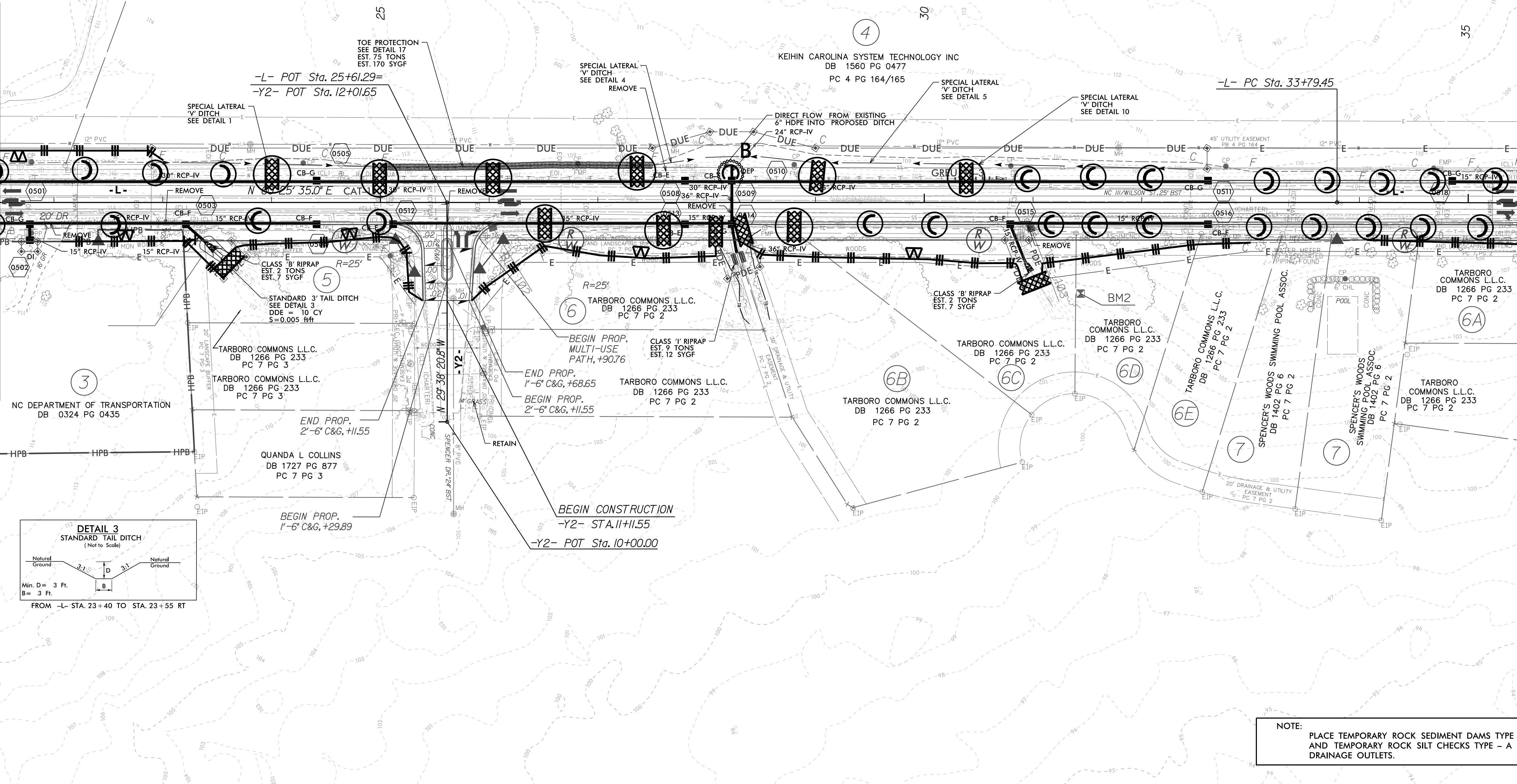
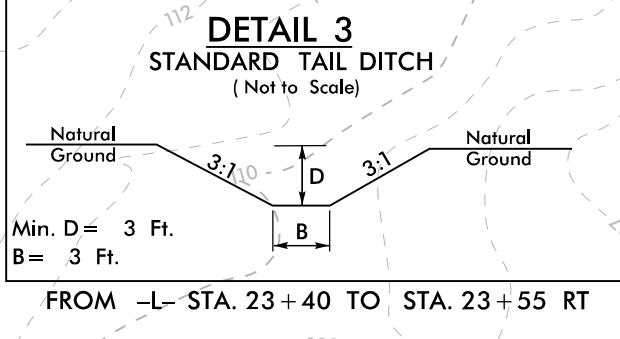
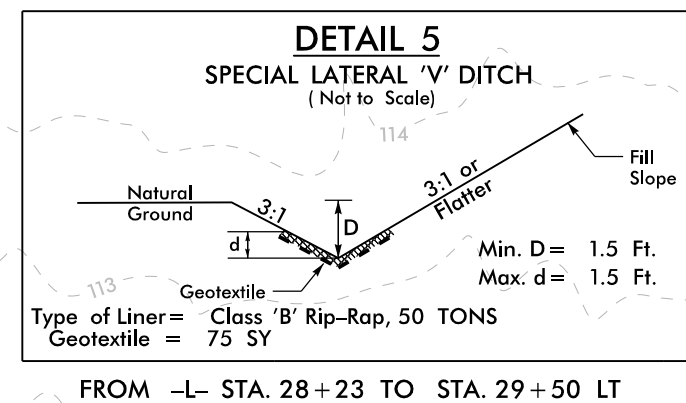
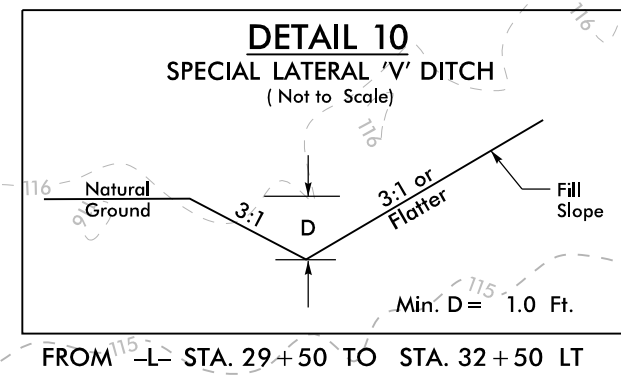
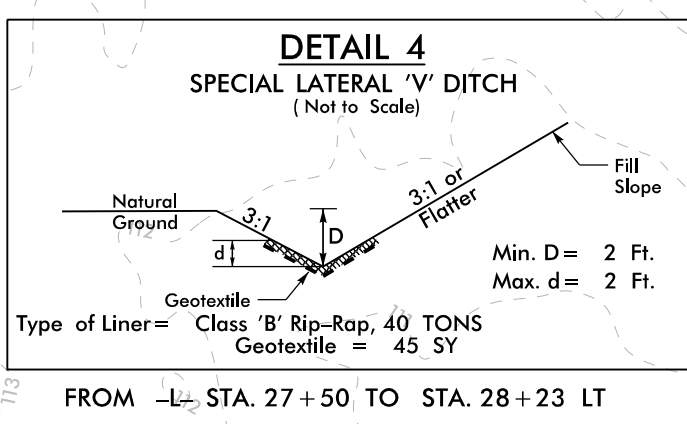
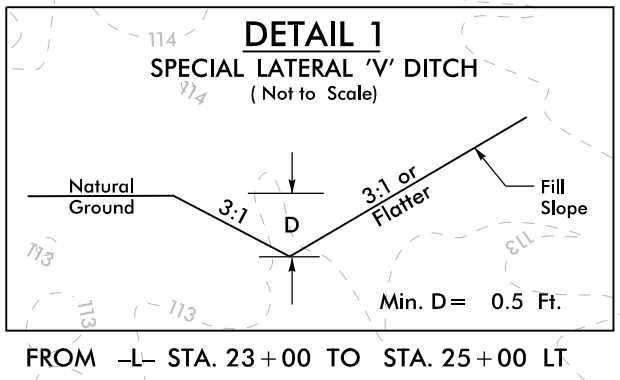
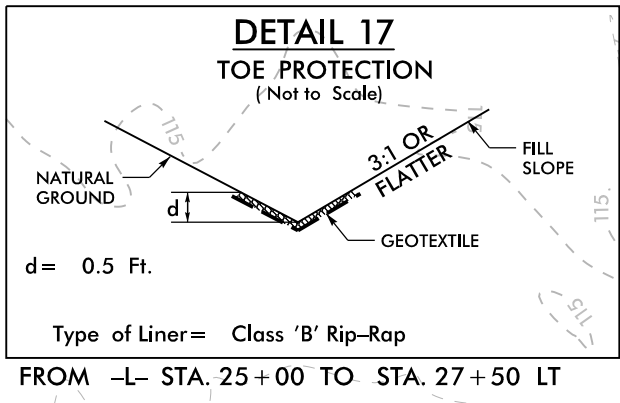
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NAD 83/2011

MATCH LINE SEE SHEET 04
-L- STA. 21+50.00

MATCH LINE SEE SHEET 06
-L- STA. 35+50.00



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

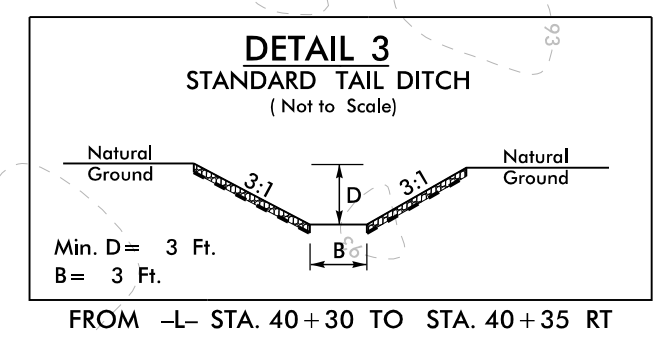
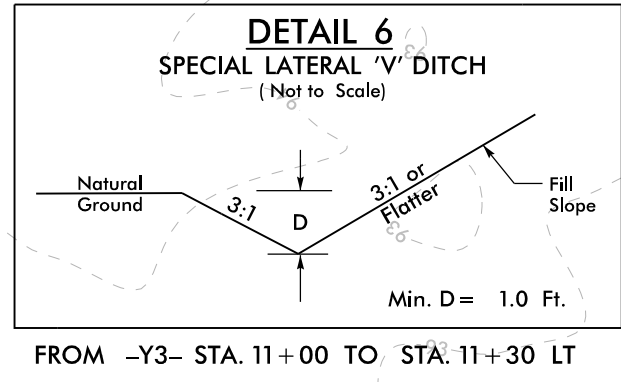
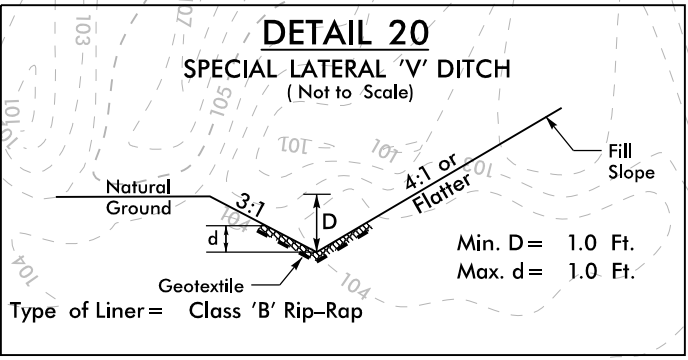
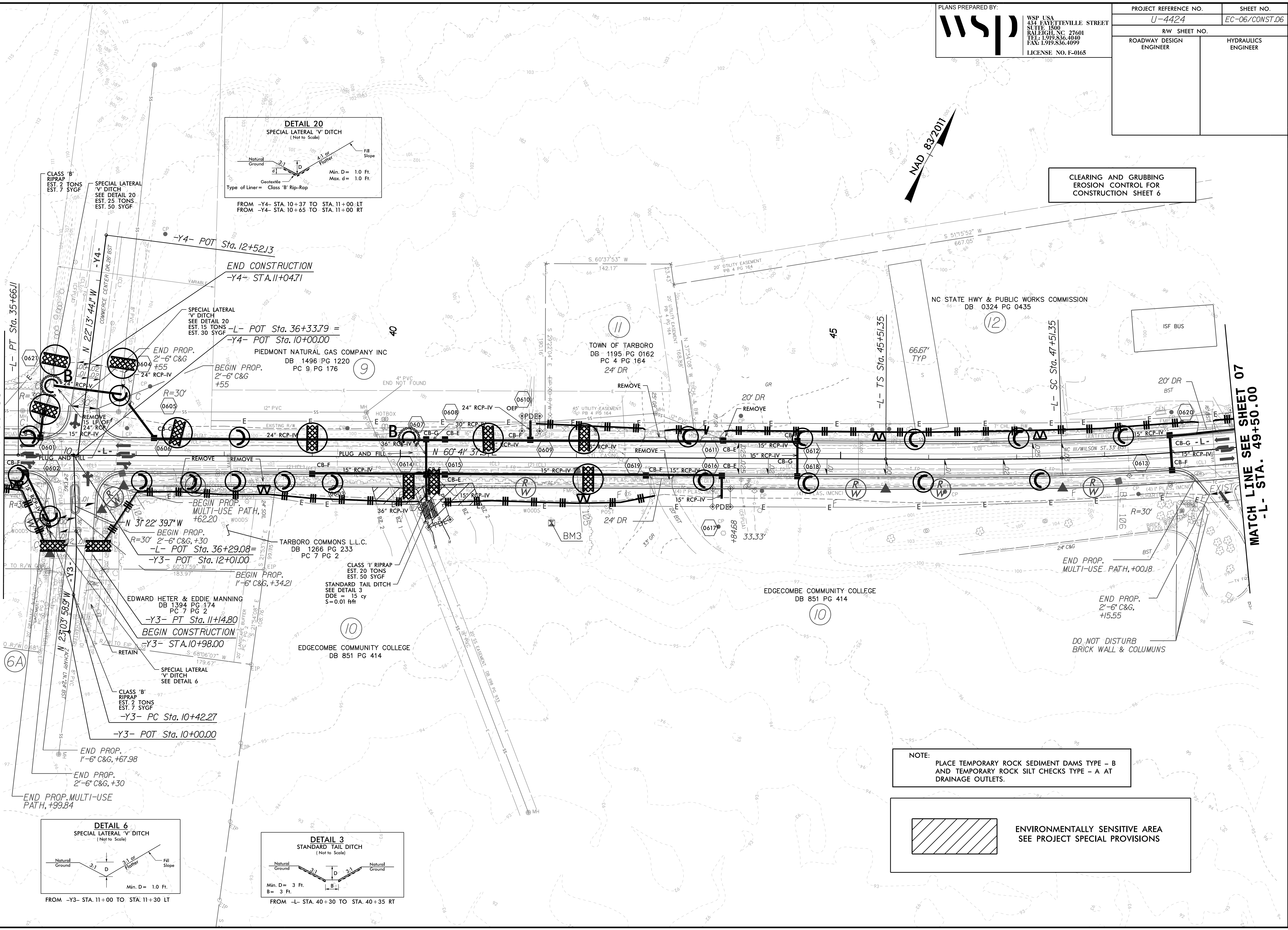
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WSP

PLANS PREPARED BY:
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WSP USA
434 FAYETTEVILLE STREET
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LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 05
-L- STA. 35+50.00

MATCH LINE SEE SHEET 07
-L- STA. 49+50.00



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

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NAD 83/2011

CLASS 'B' RIPRAP
EST. 2 TONS
EST. 7 SYGF

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 20
EST. 25 TONS
EST. 50 SYGF

FROM -Y4- STA. 10+37 TO STA. 11+00 LT
FROM -Y4- STA. 10+65 TO STA. 11+00 RT

END CONSTRUCTION
-Y4- STA. 11+04.71

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 20
EST. 15 TONS
EST. 30 SYGF

-L- POT Sta. 36+33.79 =
-Y4- POT Sta. 10+00.00

END PROP.
2'-6" C&G
#55

BEGIN PROP.
2'-6" C&G
+55

PIEDMONT NATURAL GAS COMPANY INC
DB 1496 PG 1220
PC 9, PG 176

BEGIN PROP.
MULTI-USE PATH,
+62.20

END PROP.
2'-6" C&G, +30

-L- POT Sta. 36+29.08 =
-Y3- POT Sta. 12+01.00

BEGIN PROP.
1'-6" C&G, +34.21

TARBORO COMMONS L.L.C.
DB 1266 PG 233
PC 7 PG 2

END PROP.
1'-6" C&G, +67.98

END PROP.
2'-6" C&G, +30

BEGIN CONSTRUCTION
-Y3- STA. 10+98.00

EDWARD HETER & EDDIE MANNING
DB 1394 PG 174
PC 7 PG 2

-Y3- PT Sta. 11+4.80

BEGIN CONSTRUCTION
-Y3- STA. 10+98.00

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 6

CLASS 'B' RIPRAP
EST. 2 TONS
EST. 7 SYGF

-Y3- PC Sta. 10+42.27

-Y3- POT Sta. 10+00.00

END PROP.
1'-6" C&G, +67.98

END PROP.
2'-6" C&G, +30

END PROP. MULTI-USE
PATH, +99.84

FROM -Y3- STA. 11+00 TO STA. 11+30 LT

FROM -L- STA. 40+30 TO STA. 40+35 RT

NC STATE HWY & PUBLIC WORKS COMMISSION
DB 0324 PG 0435

TOWN OF TARBORO
DB 1195 PG 0162
PC 4 PG 164

EDGECOMBE COMMUNITY COLLEGE
DB 851 PG 414

EDGECOMBE COMMUNITY COLLEGE
DB 851 PG 414

END PROP.
MULTI-USE PATH, +00.18

END PROP.
2'-6" C&G,
+15.55

DO NOT DISTURB
BRICK WALL & COLUMNS

ISF BUS

-L- TS Sta. 45+51.35

-L- SC Sta. 47+51.35

20' DR
BST

20' DR
BST

20' DR
BST

20' DR
BST

20' DR
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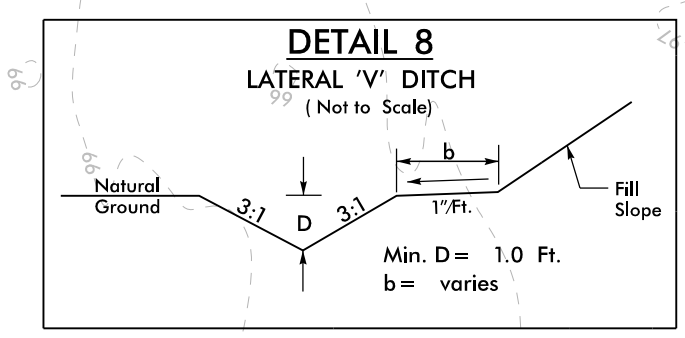
20' DR
BST

20' DR
BST

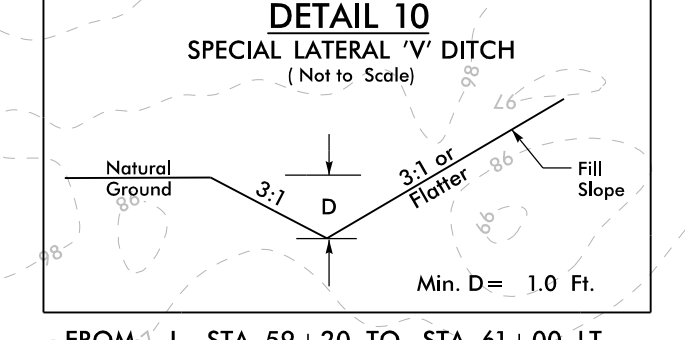
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 WSP

PLANS PREPARED BY:

 WSP USA
 434 FAYETTEVILLE STREET
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 TEL: 1.919.836.4040
 FAX: 1.919.836.4099
 LICENSE NO. F-0165

PROJECT REFERENCE NO. U-4424	SHEET NO. EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

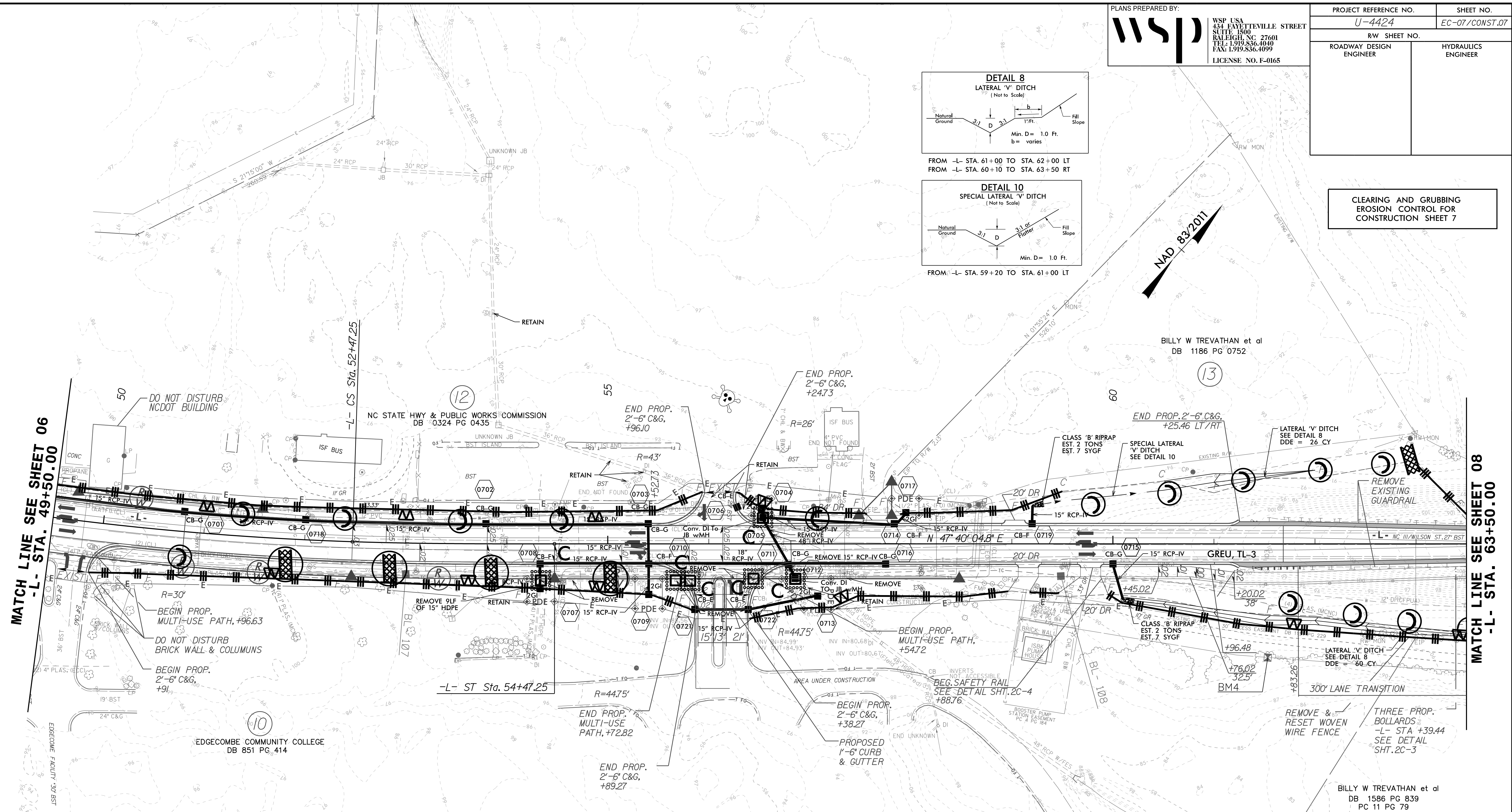


FROM -L- STA. 61+00 TO STA. 62+00 LT
 FROM -L- STA. 60+10 TO STA. 63+50 RT



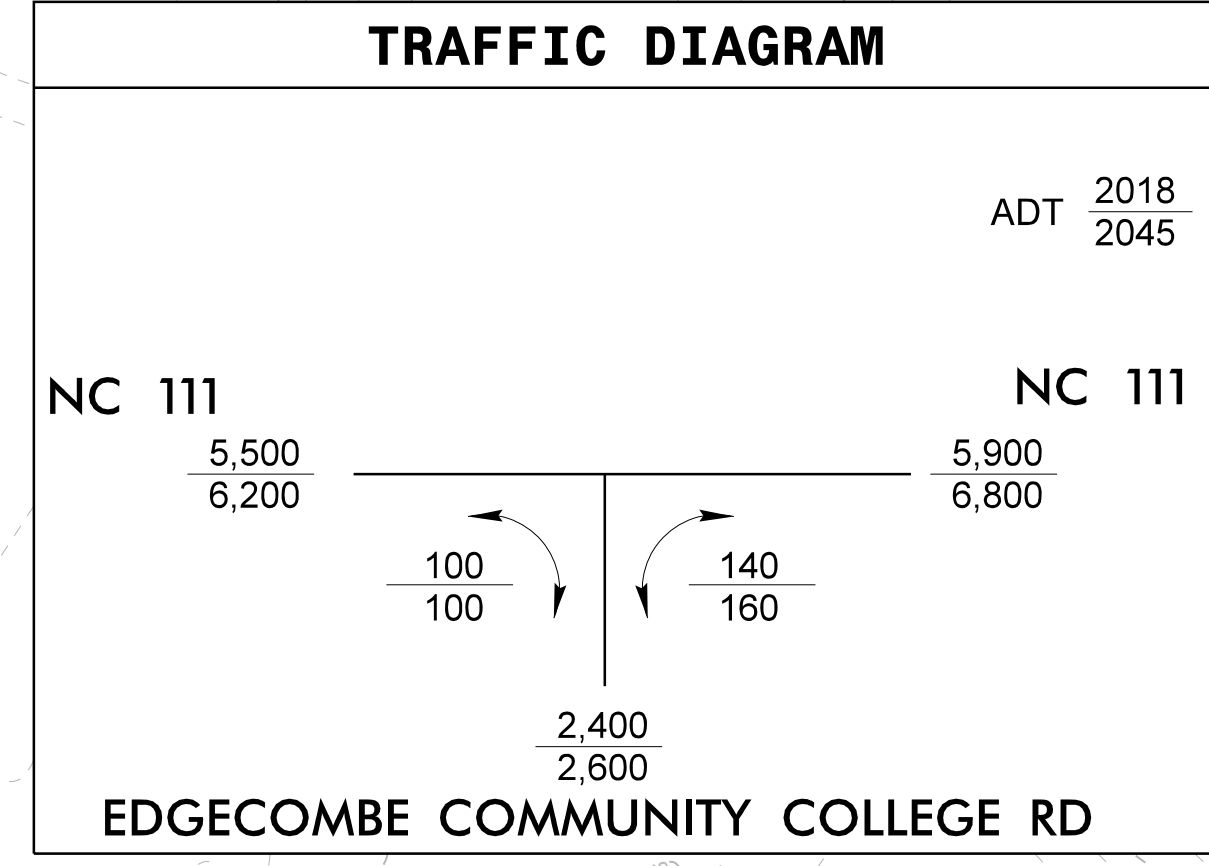
FROM -L- STA. 59+20 TO STA. 61+00 LT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7



MATCH LINE SEE SHEET 06
 -L- STA. 49+50.00

MATCH LINE SEE SHEET 08
 -L- STA. 63+50.00



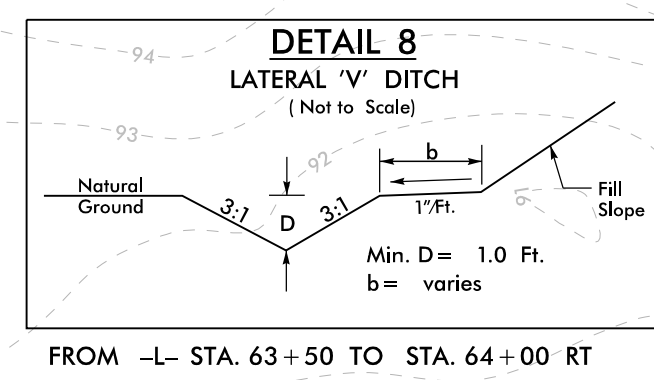
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

SEE SHEET 15 FOR -L- PROFILE

06-APR-2023 10:13 SERVO STATION CONTROL_CADD\U4424_EC.psh8_CG.dgn WSP

PLANS PREPARED BY:
WSP
 WSP USA
 434 FAYETTEVILLE STREET
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 RALEIGH, NC 27601
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 FAX: 1.919.836.4099
 LICENSE NO. F-0165

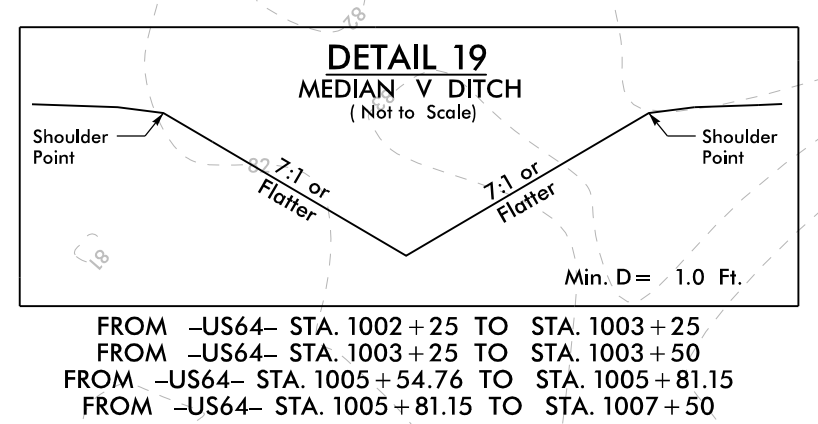
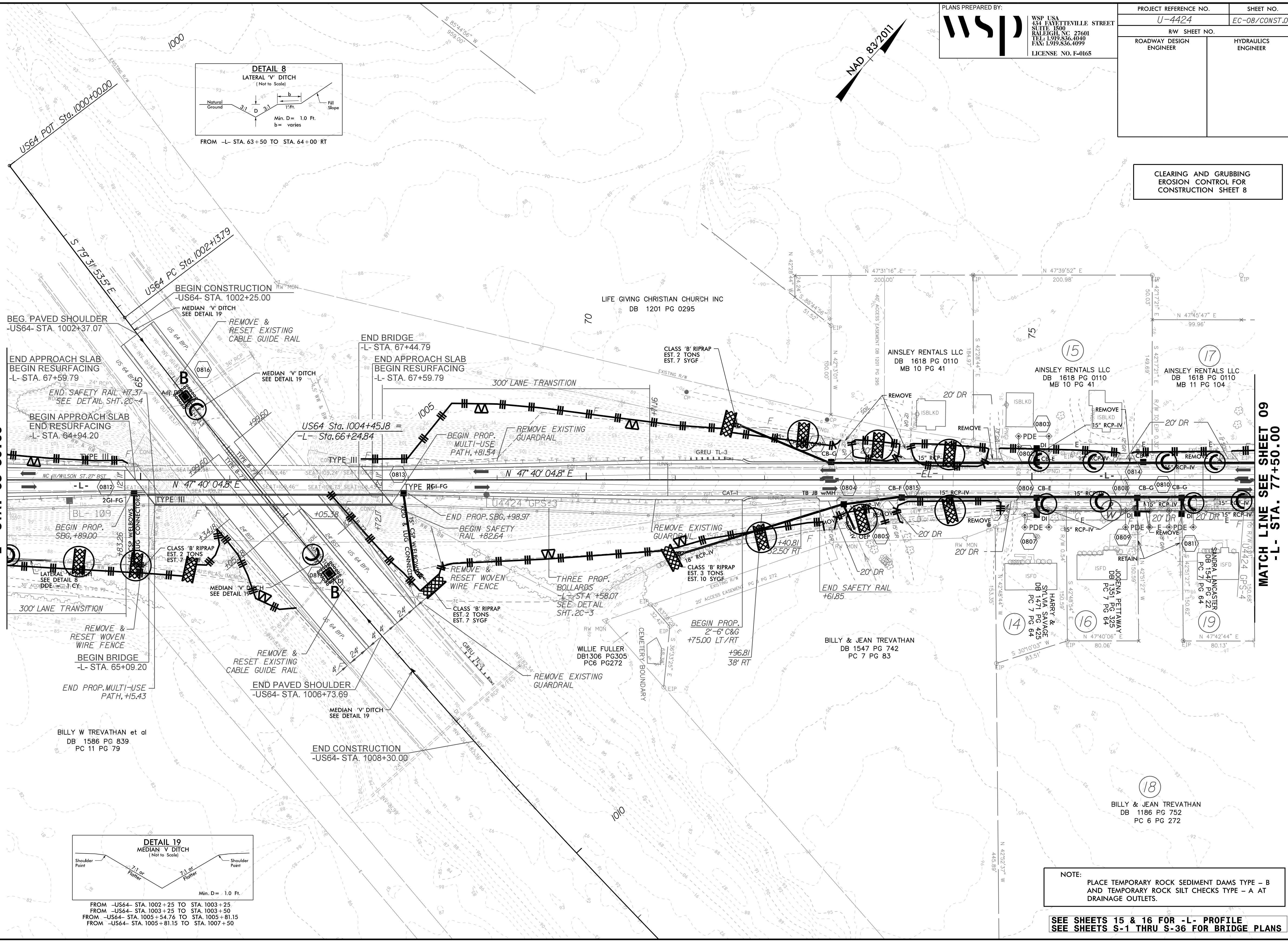
PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 07
 -L- STA. 63+50.00

MATCH LINE SEE SHEET 09
 -L- STA. 77+50.00

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 8



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

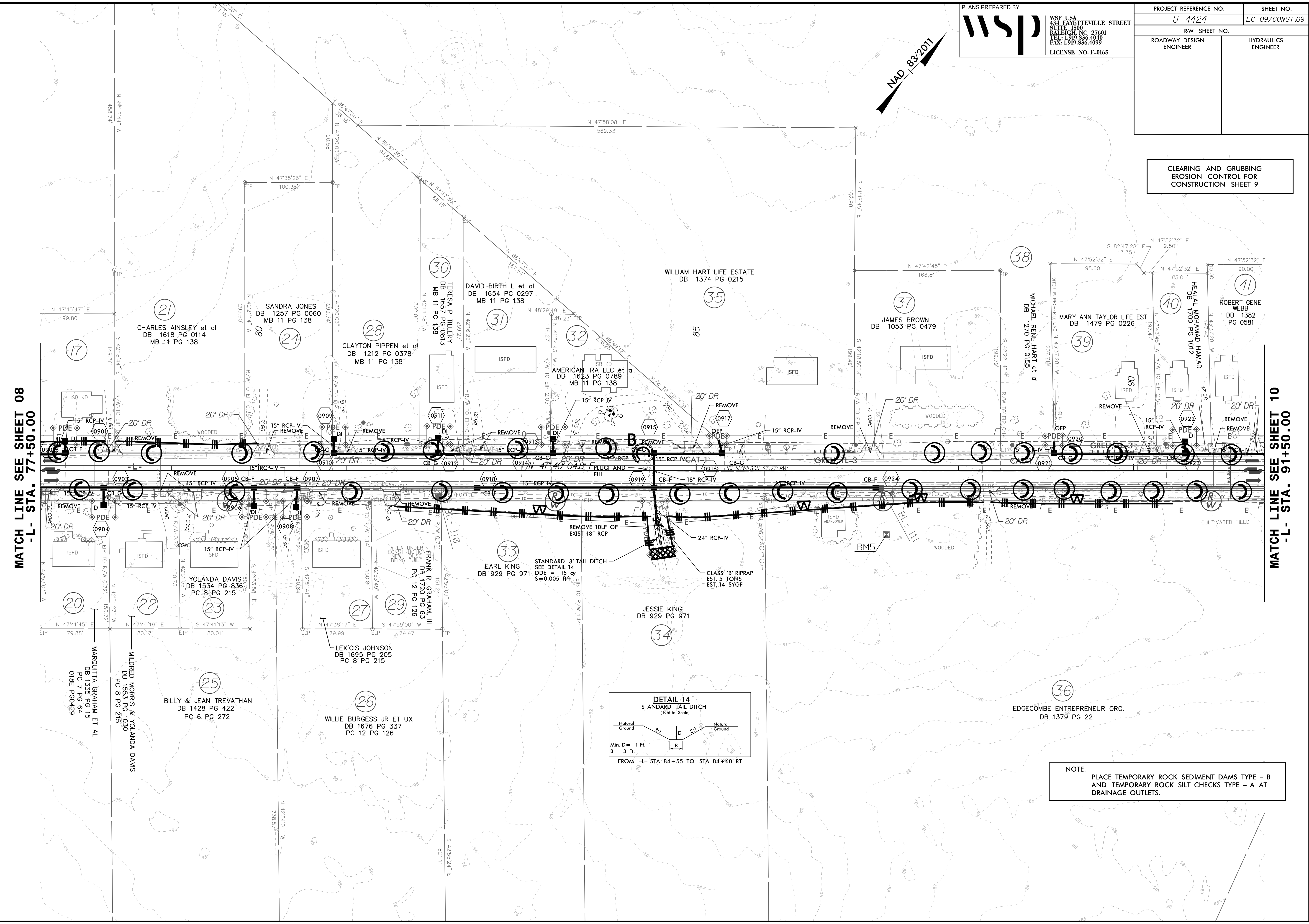
SEE SHEETS 15 & 16 FOR -L- PROFILE
 SEE SHEETS S-1 THRU S-36 FOR BRIDGE PLANS

8.17.99
06-APR-2023 10:43
SERVISOR CONTROL\CADD\U4424_EC_psh9_CG.dgn
WSP

PLANS PREPARED BY:
WSP
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

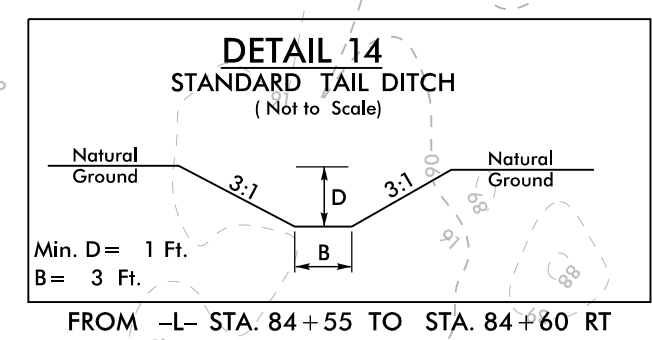
PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9



MATCH LINE SEE SHEET 08
-L- STA. 77+50.00

MATCH LINE SEE SHEET 10
-L- STA. 91+50.00



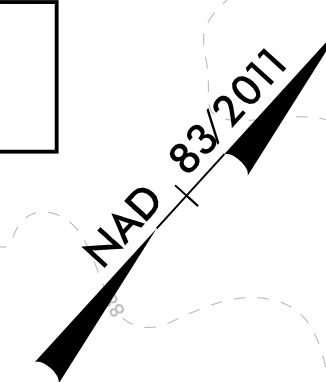
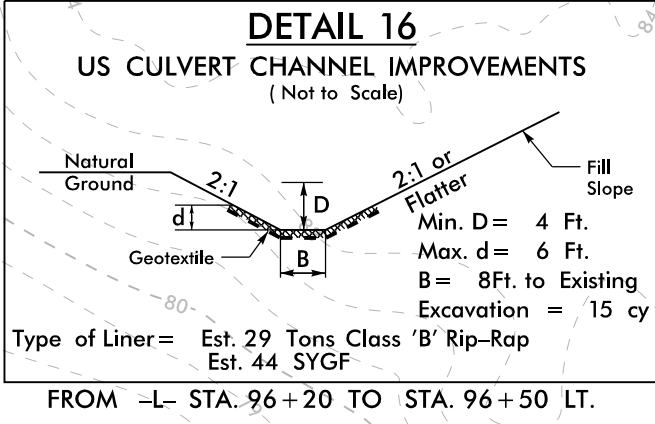
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

8.17.19
06-APR-2023 10:43
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WSP

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

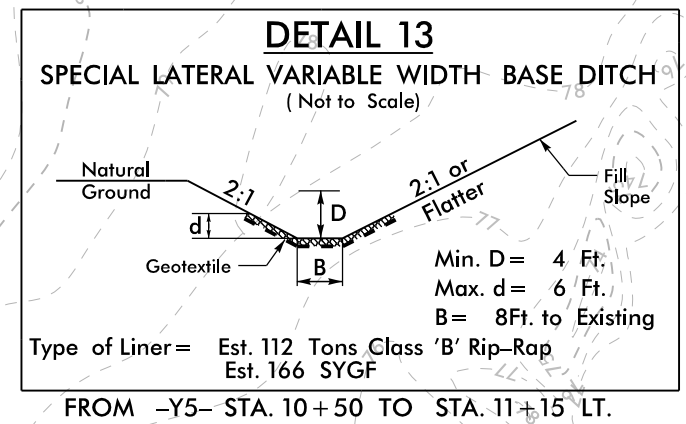
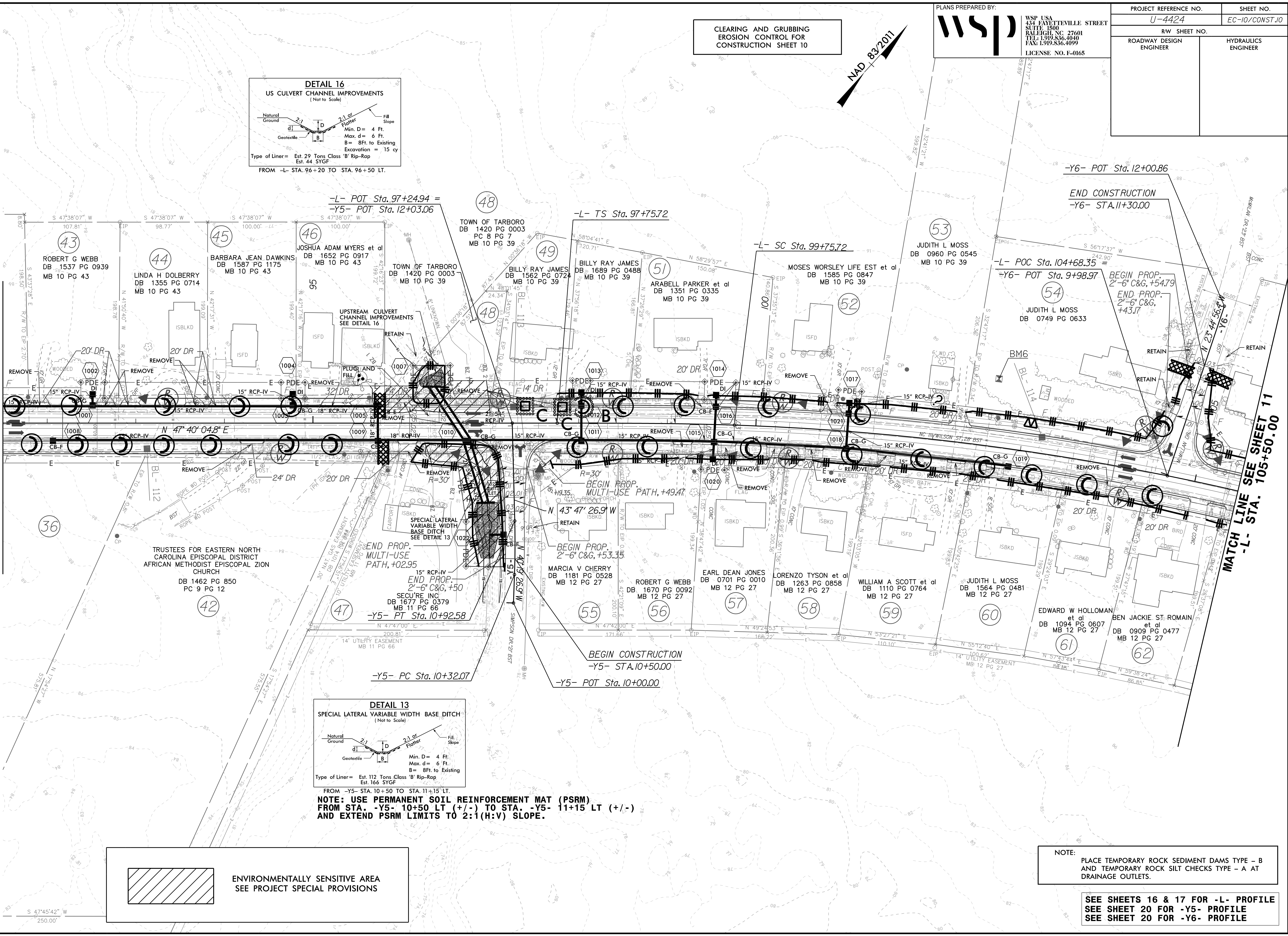
PLANS PREPARED BY:
WSP
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 09
-L- STA. 91+50.00

MATCH LINE SEE SHEET 11
-L- STA. 105+50.00



NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM)
FROM STA. -Y5- 10+50 LT (+/-) TO STA. -Y5- 11+15 LT (+/-)
AND EXTEND PSRM LIMITS TO 2:1(H:V) SLOPE.

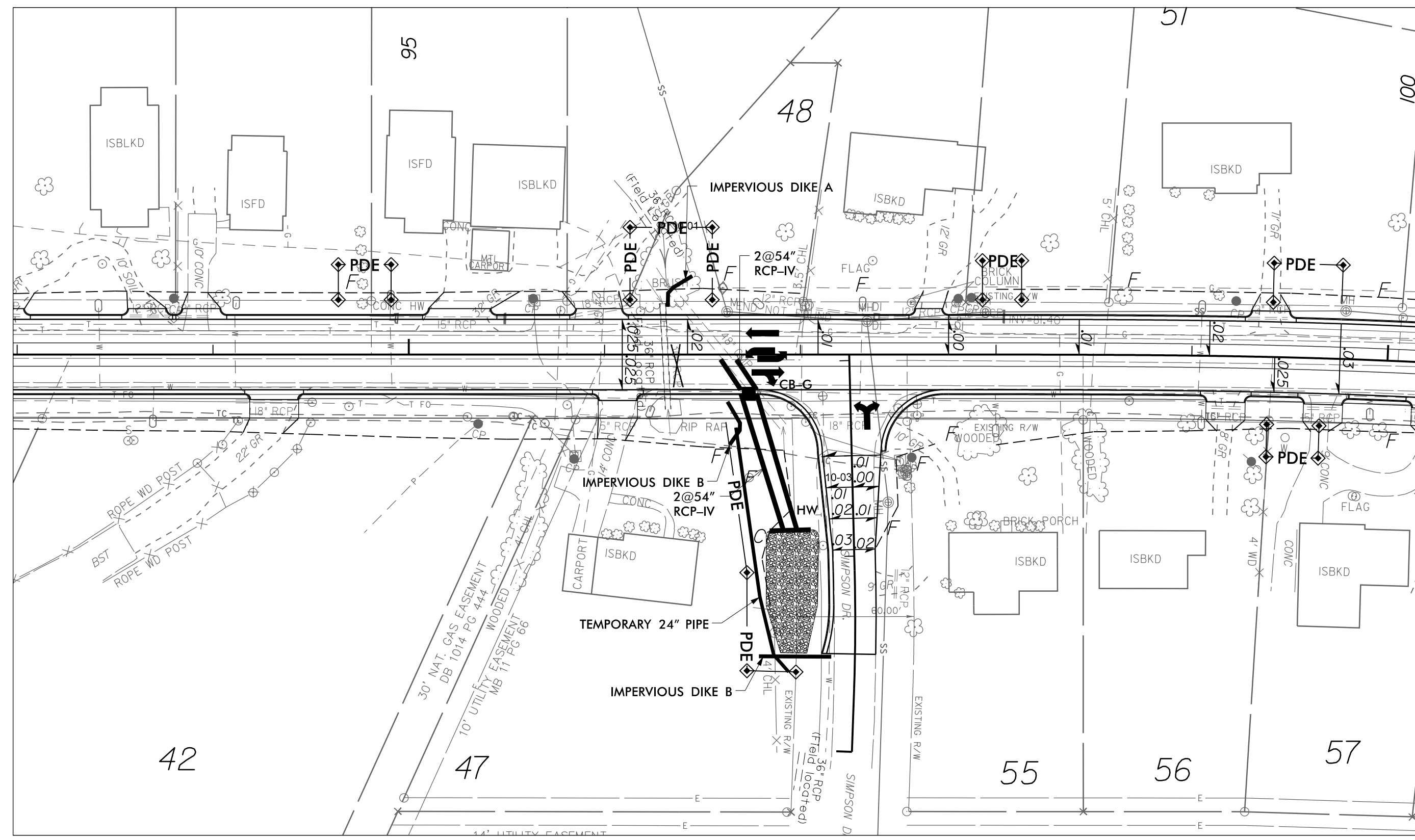


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

SEE SHEETS 16 & 17 FOR -L- PROFILE
SEE SHEET 20 FOR -Y5- PROFILE
SEE SHEET 20 FOR -Y6- PROFILE

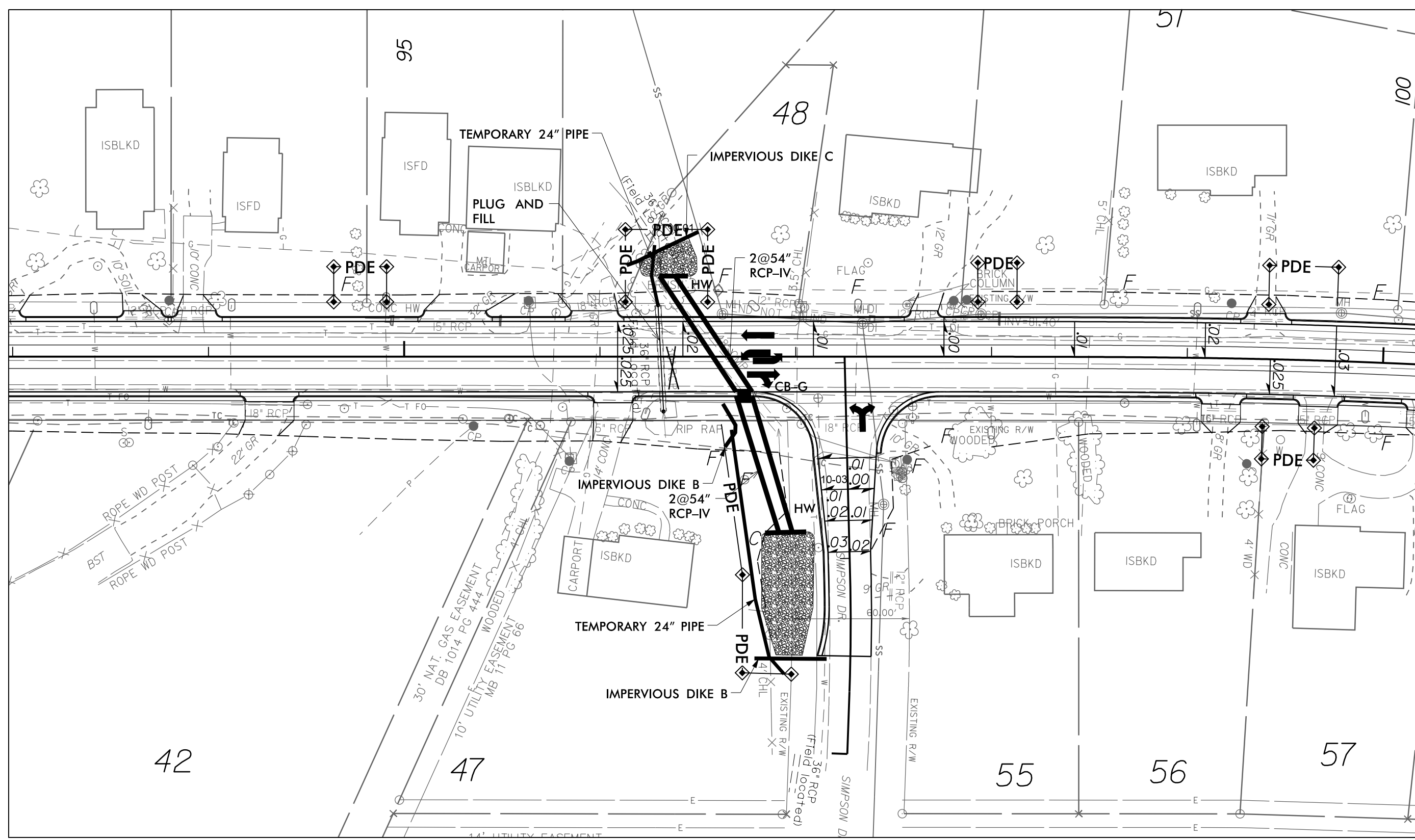
**U-4424 CULVERT PHASING -L- 96+63
UT TO HOLLY CREEK
EDGECOMBE COUNTY**

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-10A/CONST.10
RW SHEET NO.	
<p align="center">VIDYA MOHANDAS, PE EROSION CONTROL LEVEL III CERTIFICATION #3404</p>	



PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED DURING THE CULVERT SEQUENCING.
2. INSTALL IMPERVIOUS DIKES A & B AS SHOWN UPSTREAM AND DOWNSTREAM OF EXISTING 48" CMP.
3. INSTALL 24" TEMPORARY PIPE.
4. UTILIZE EXISTING 36" RCP AS TEMPORARY PIPE DURING THE CROSSPIPE SEQUENCING.
5. BEGIN REMOVAL OF DOWNSTREAM HALF OF EXISTING 48" CMP AND REPLACE DOWNSTREAM HALF WITH PROPOSED DUAL 54" RCP PIPES AND SPECIAL CB-G BOX FOR DUAL PIPES.
6. DEWATER CONSTRUCTION AREA INTO SPECIAL STILLING BASIN(S) AS NEEDED WHILE NEW ALIGNMENT IS UNDER CONSTRUCTION.
7. CONSTRUCT DOWNSTREAM CHANNEL IMPROVEMENTS.



PHASE II

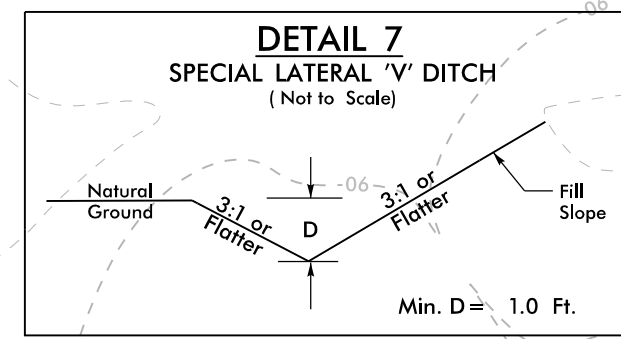
1. MOVE TRAFFIC TO NEWLY CONSTRUCTED ROADWAY.
2. INSTALL UPSTREAM TEMPORARY 24" PIPE.
3. REMOVE IMPERVIOUS DIKE "A" AND INSTALL IMPERVIOUS DIKE "C" TO DIVERT FLOW TEMPORARY PIPE.
4. BEGIN REMOVAL OF UPSTREAM HALF OF EXISTING 48" CMP AND INSTALL REMAINDER OF PROPOSED DUAL 54" RCP PIPES. DEWATER CONSTRUCTION AREA INTO SPECIAL STILLING BASIN(S) AS NEEDED.
5. CONSTRUCT UPSTREAM CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES "B" AND "C", SPECIAL STILLING BASIN(S), AND TEMPORARY PIPE. PLUG AND FILL EXISTING 36" RCP CROSSPIPE.
7. COMPLETE ROADWAY.

8/17/99
06-APR-2023 10:43
SERVISORY CONTROL\CADD\U4424_EC_psh11_CG.dgn
WSP

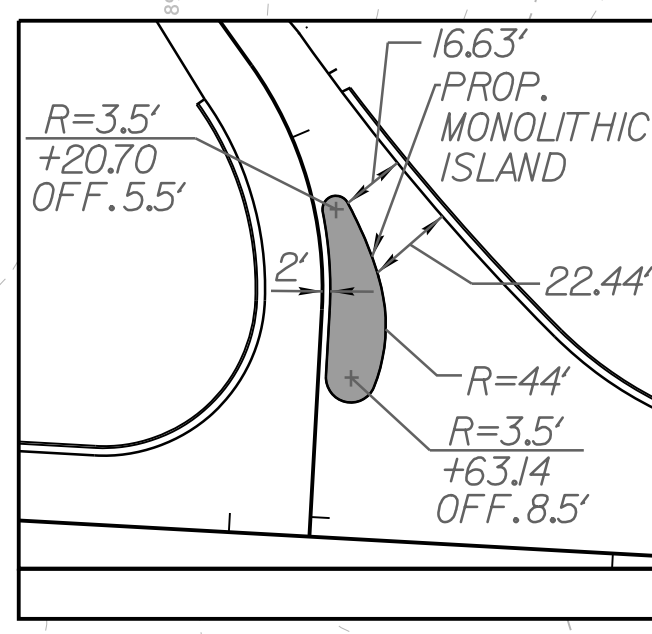
PLANS PREPARED BY:
WSP
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO. U-4424	SHEET NO. EC-11/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

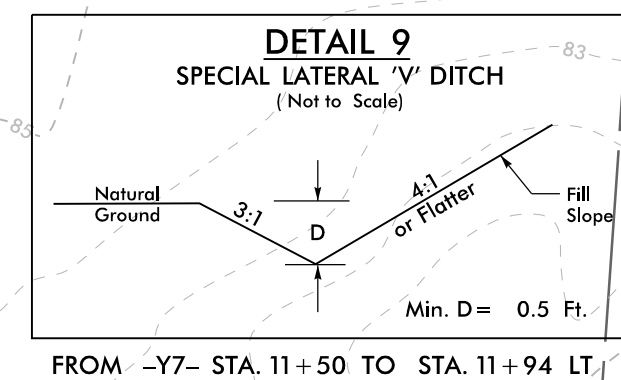
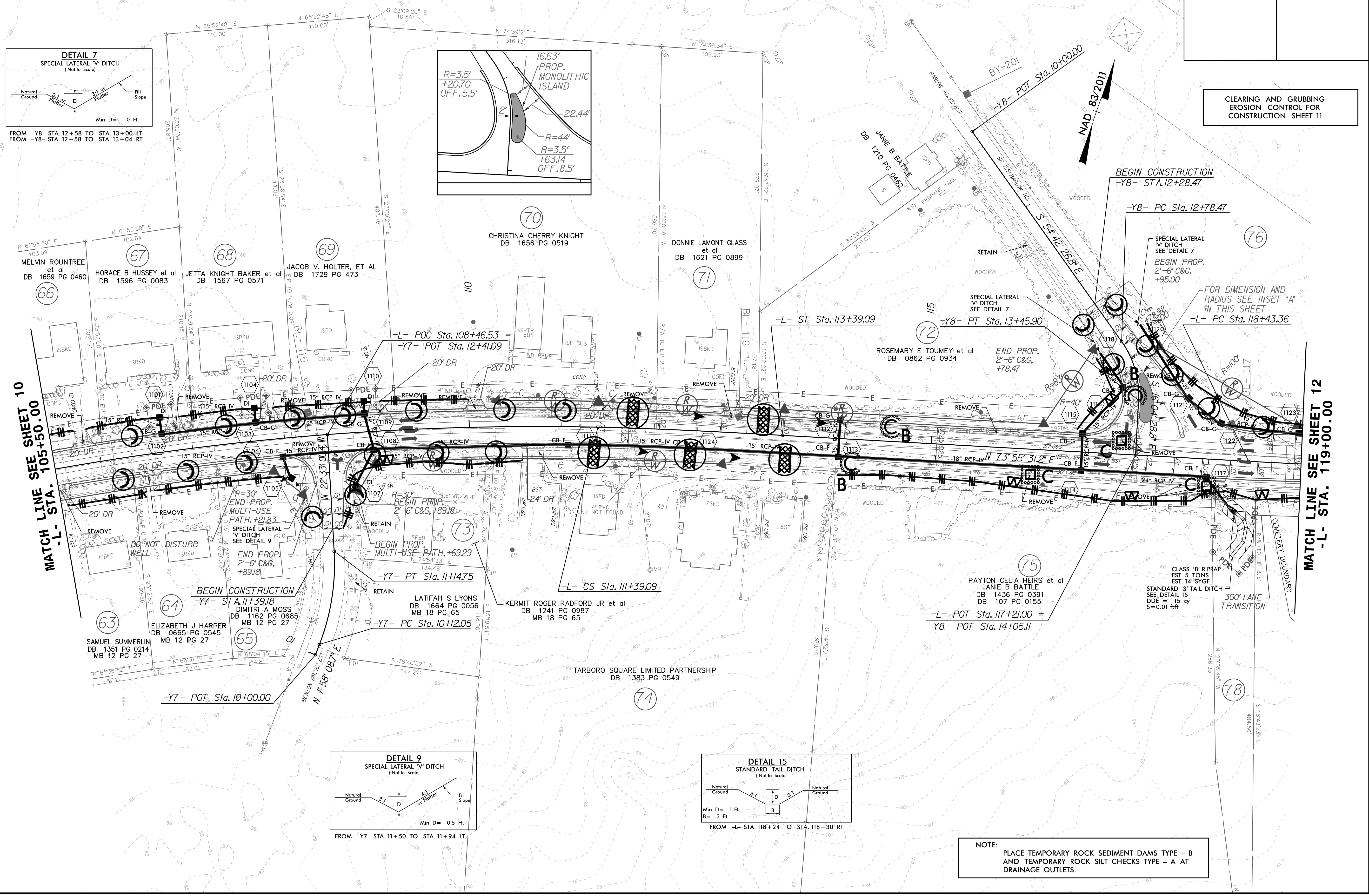


FROM -Y8- STA. 12+58 TO STA. 13+00 LT
FROM -Y8- STA. 12+58 TO STA. 13+04 RT

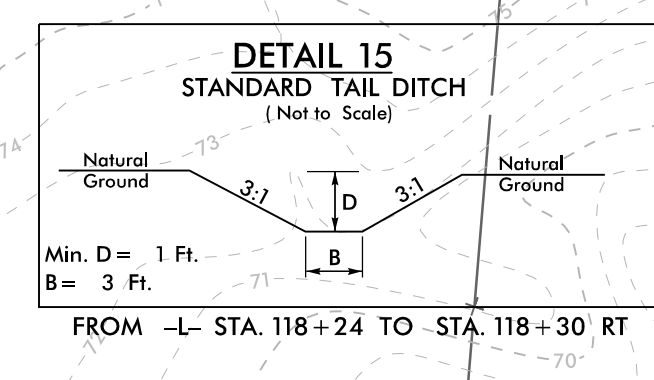


MATCH LINE SEE SHEET 10
-L- STA. 105+50.00

MATCH LINE SEE SHEET 12
-L- STA. 119+00.00



FROM -Y7- STA. 11+50 TO STA. 11+94 LT



FROM -L- STA. 118+24 TO STA. 118+30 RT

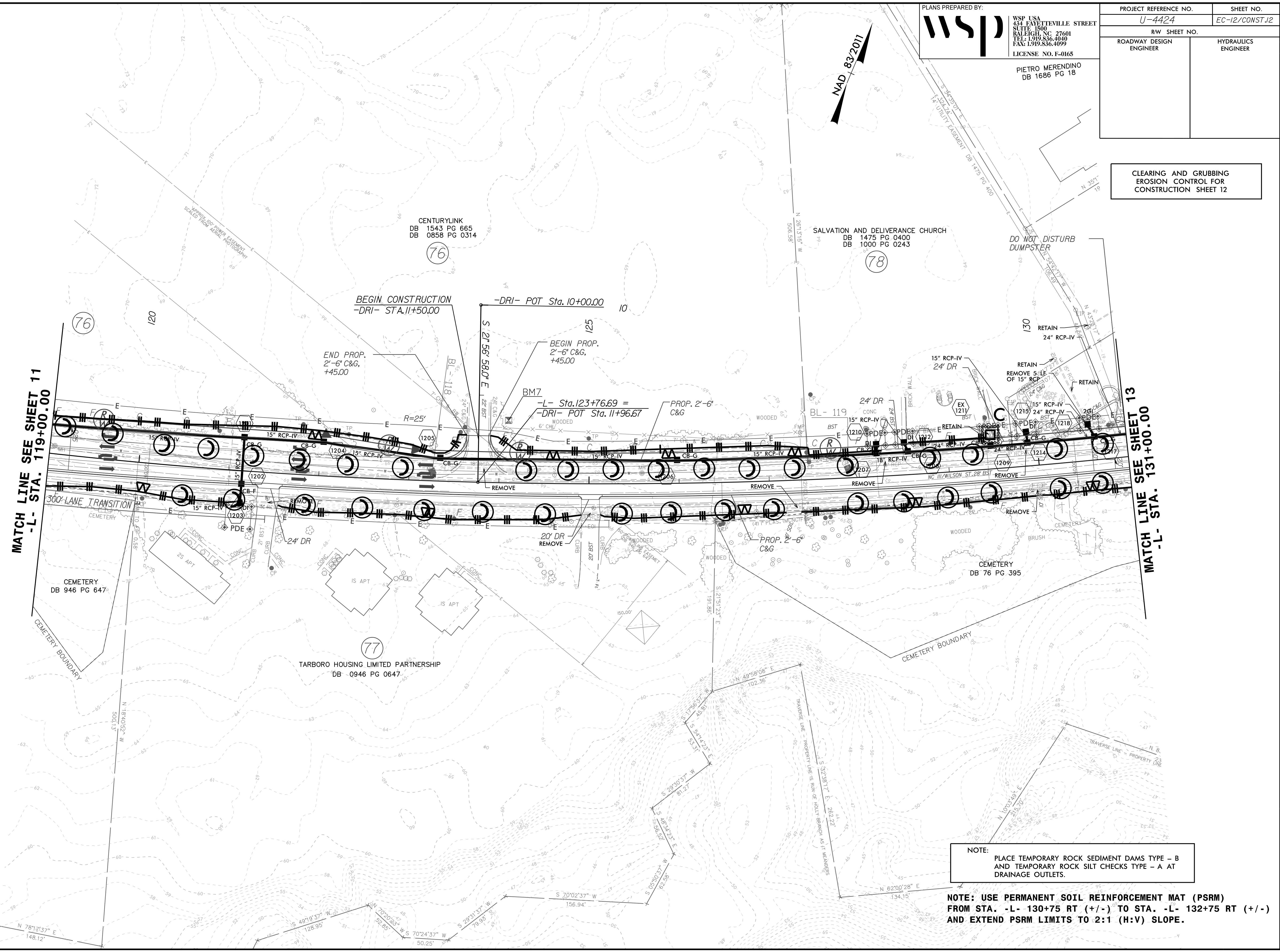
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

8/17/99
06-APR-2023 10:13
SERVISOR CONTROL\CADD\U4424_EC_psh12_CG.dgn
WSP

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WSP USA
434 FAYETTEVILLE STREET
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RALEIGH, NC 27601
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LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-12/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PIETRO MERENDINO DB 1686 PG 18	


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12



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

NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM)
FROM STA. -L- 130+75 RT (+/-) TO STA. -L- 132+75 RT (+/-)
AND EXTEND PSRM LIMITS TO 2:1 (H:V) SLOPE.

PLANS PREPARED BY:

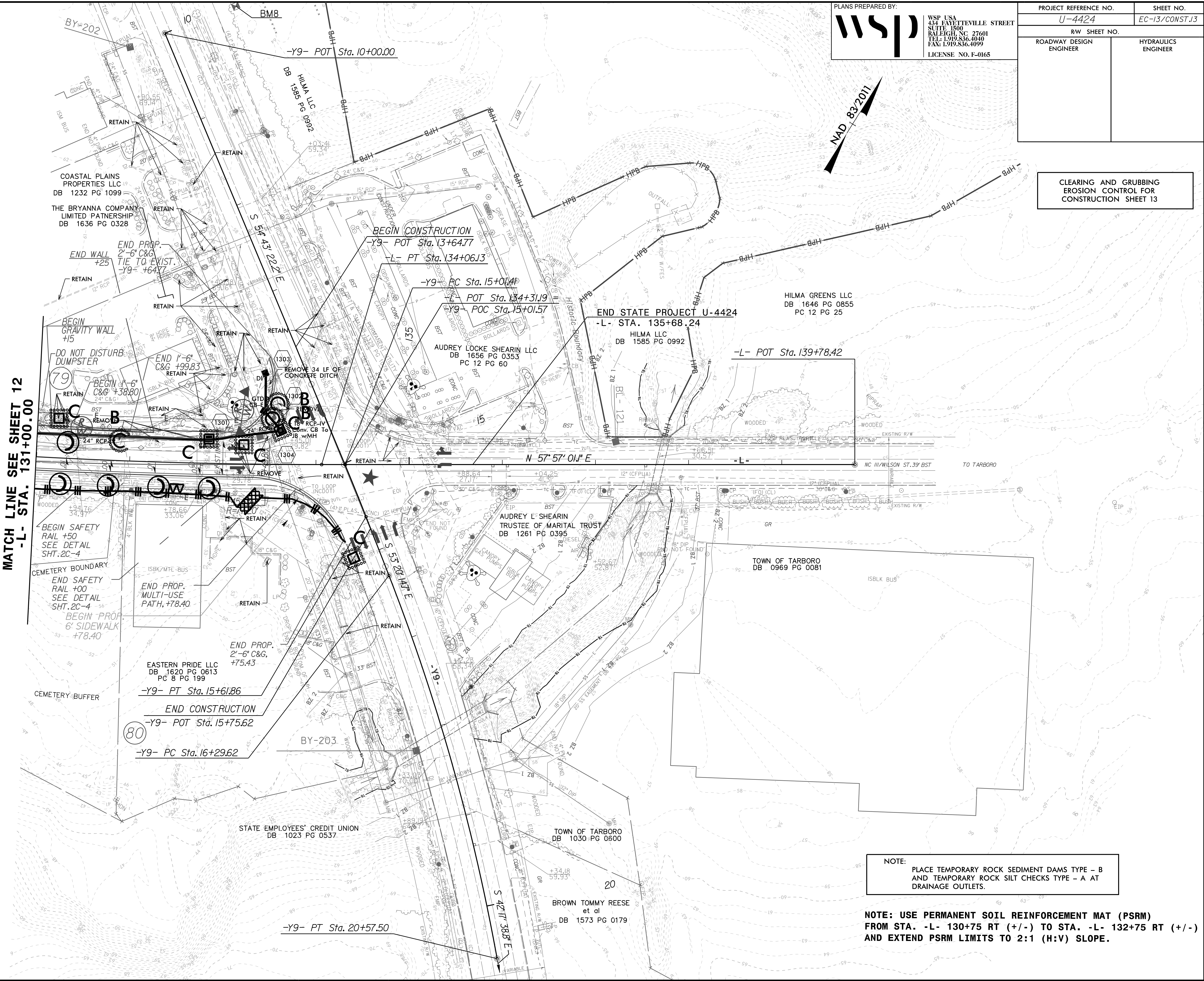


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FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-13/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

MATCH LINE SEE SHEET 12
-L- STA. 131+00.00



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

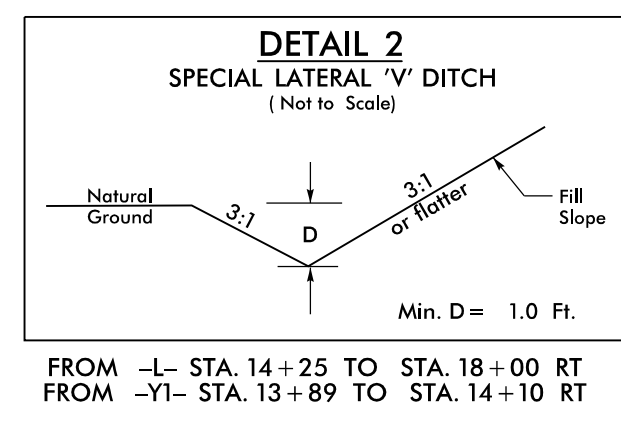
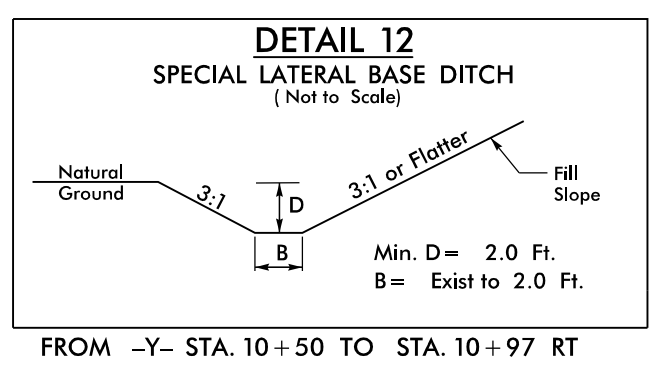
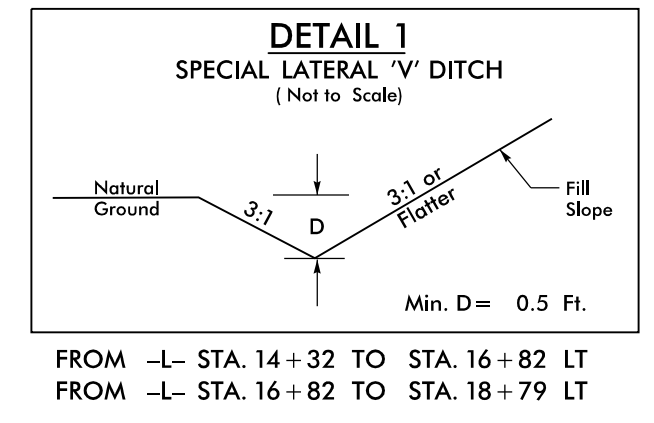
NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM)
FROM STA. -L- 130+75 RT (+/-) TO STA. -L- 132+75 RT (+/-)
AND EXTEND PSRM LIMITS TO 2:1 (H:V) SLOPE.

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-14/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

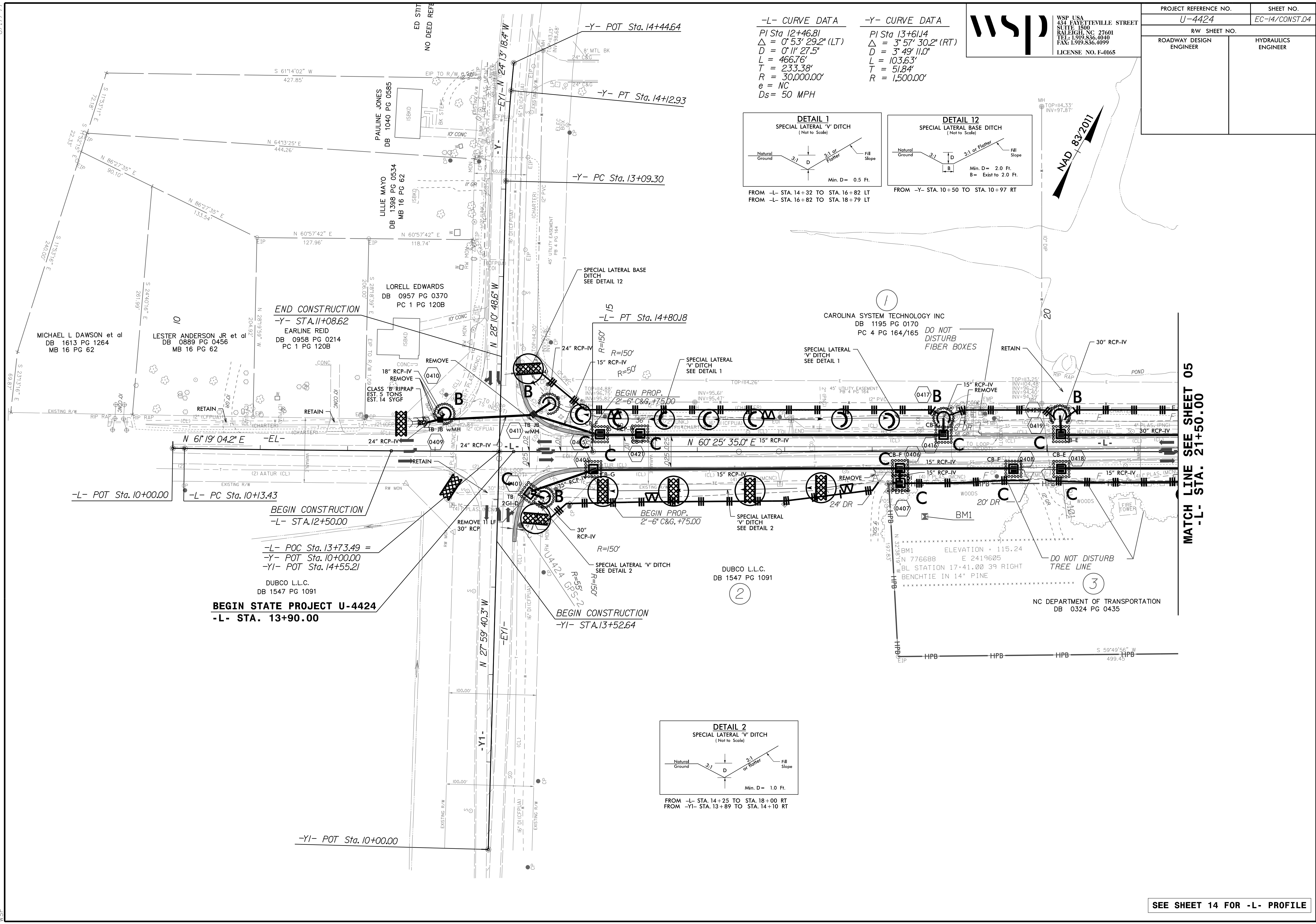
WSP
 WSP USA
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 TEL: 919.836.4040
 FAX: 919.836.4099
 LICENSE NO. F-0165

-L- CURVE DATA
 PI Sta 12+46.81
 $\Delta = 0^{\circ}53'29.2"$ (LT)
 $D = 0^{\circ}11'27.5"$
 $L = 466.76'$
 $T = 233.38'$
 $R = 30,000.00'$
 $e = NC$
 $Ds = 50 MPH$

-Y- CURVE DATA
 PI Sta 13+61.14
 $\Delta = 3^{\circ}57'30.2"$ (RT)
 $D = 3^{\circ}49'11.0"$
 $L = 103.63'$
 $T = 51.84'$
 $R = 1,500.00'$



NAD 83/2011




MATCH LINE SEE SHEET 05
 -L- STA. 21+50.00

SEE SHEET 14 FOR -L- PROFILE

06-APR-2023 10:43 SERGIYOR CONTROL\CADD\U4424_EC_psh4_final.dgn

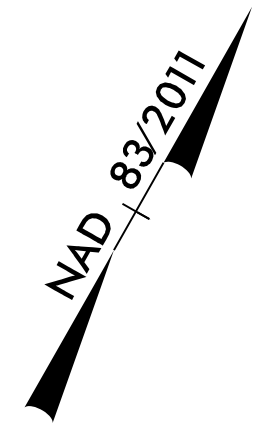
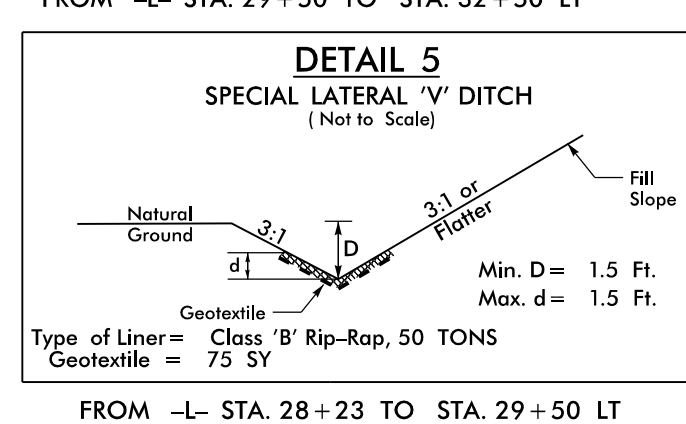
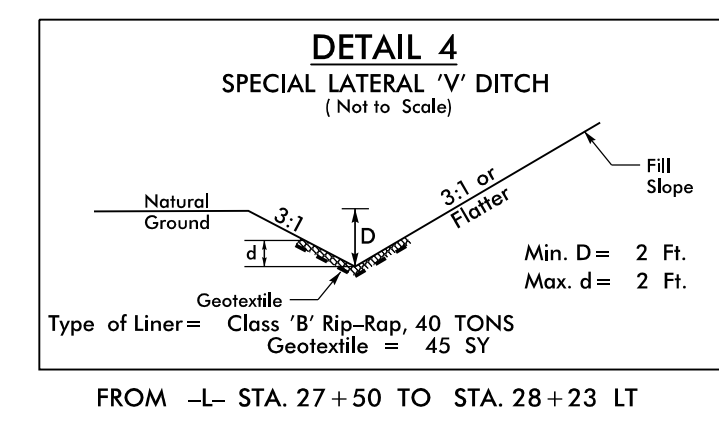
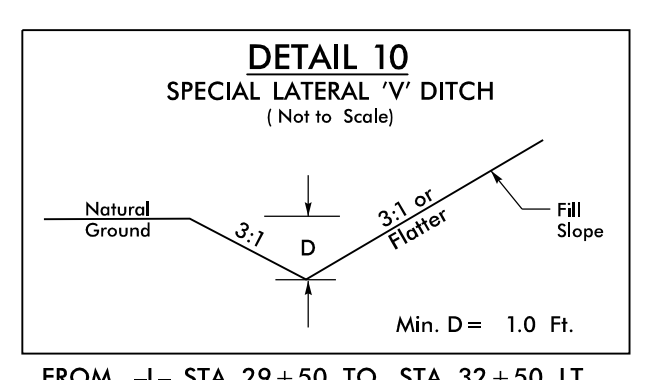
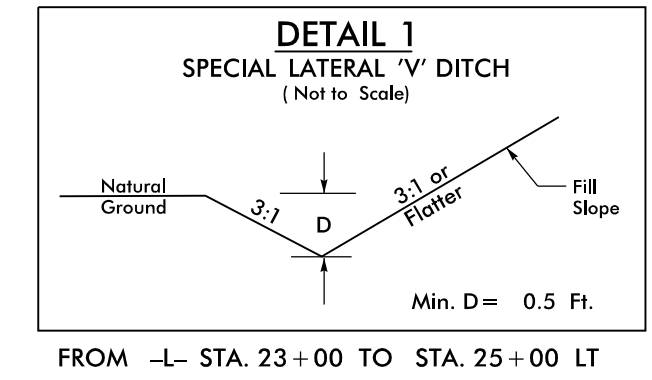
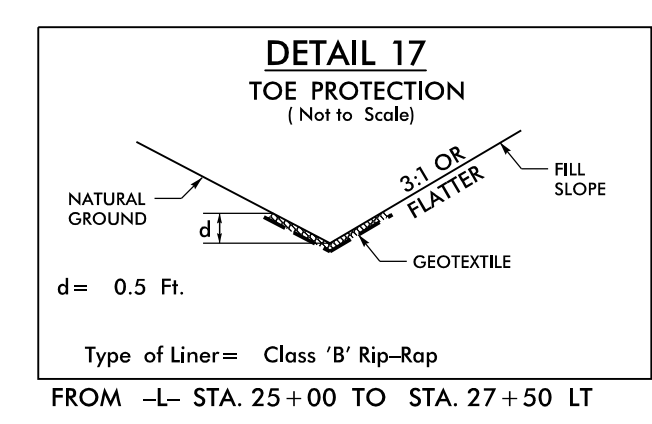
8/17/99

PLANS PREPARED BY:



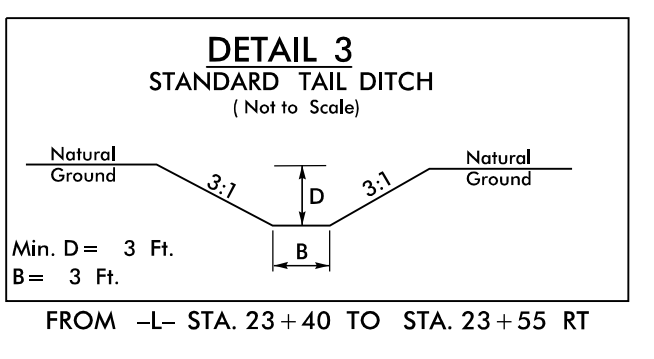
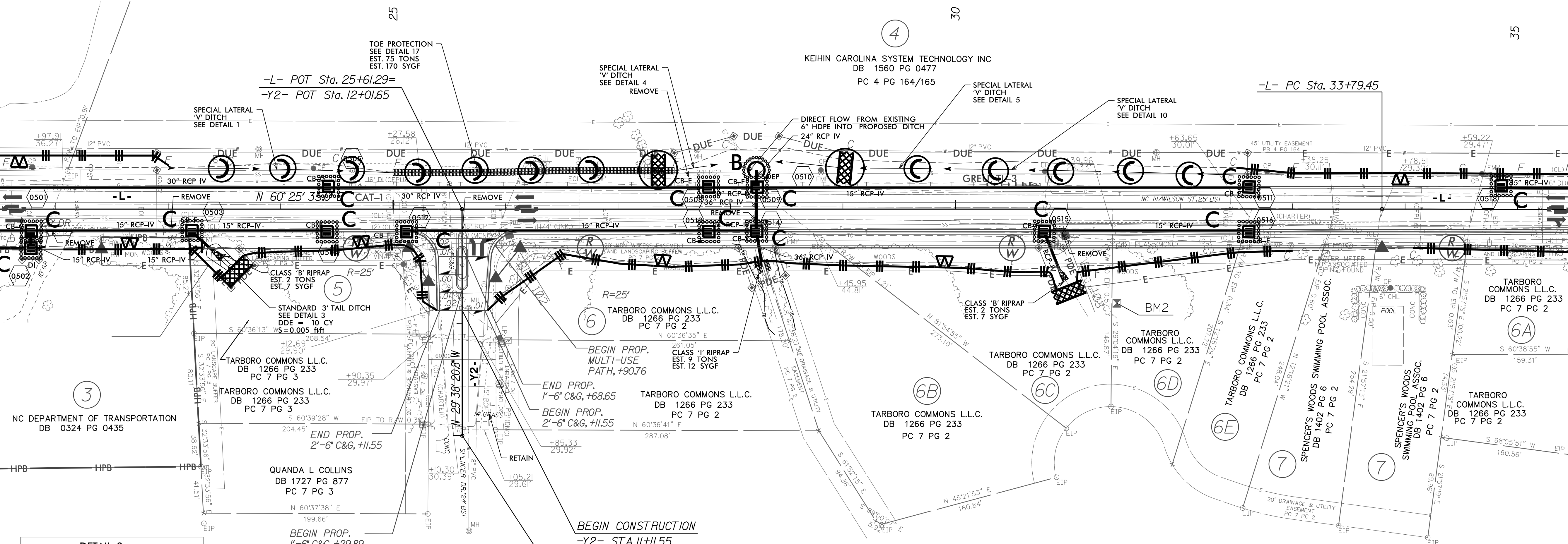
WSP USA
434 LAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-15/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 04
-L- STA. 21+50.00

MATCH LINE SEE SHEET 06
-L- STA. 35+50.00



06-APR-2023 10:43
SERVOSTORY CONTROL\CADD\U4424_EC_psh5_final.dgn
WSP

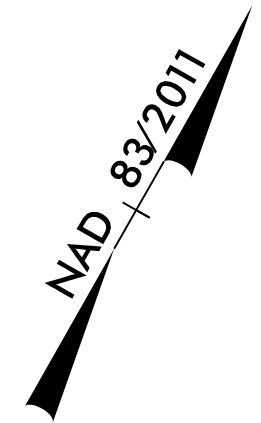
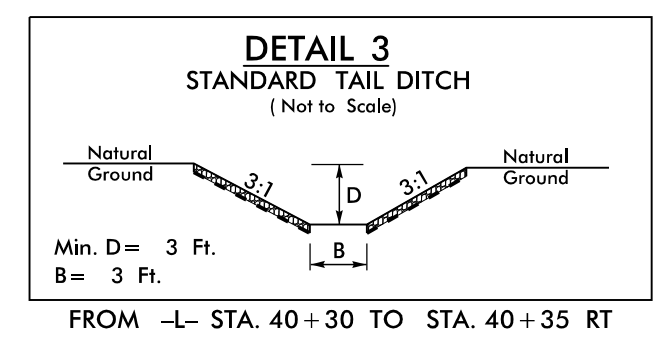
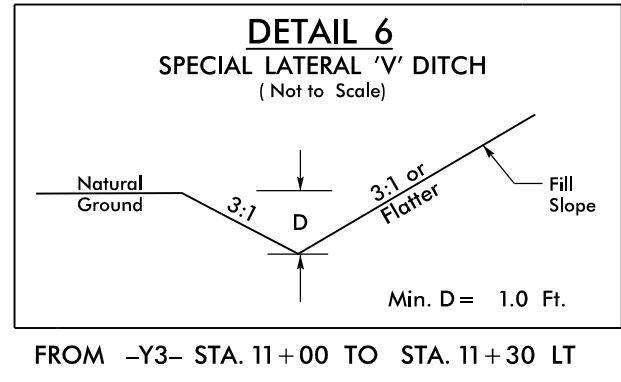
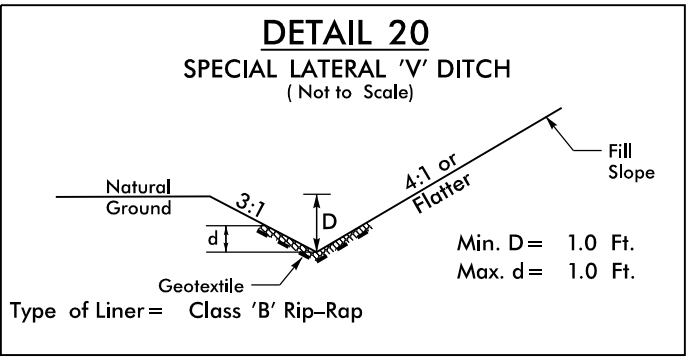
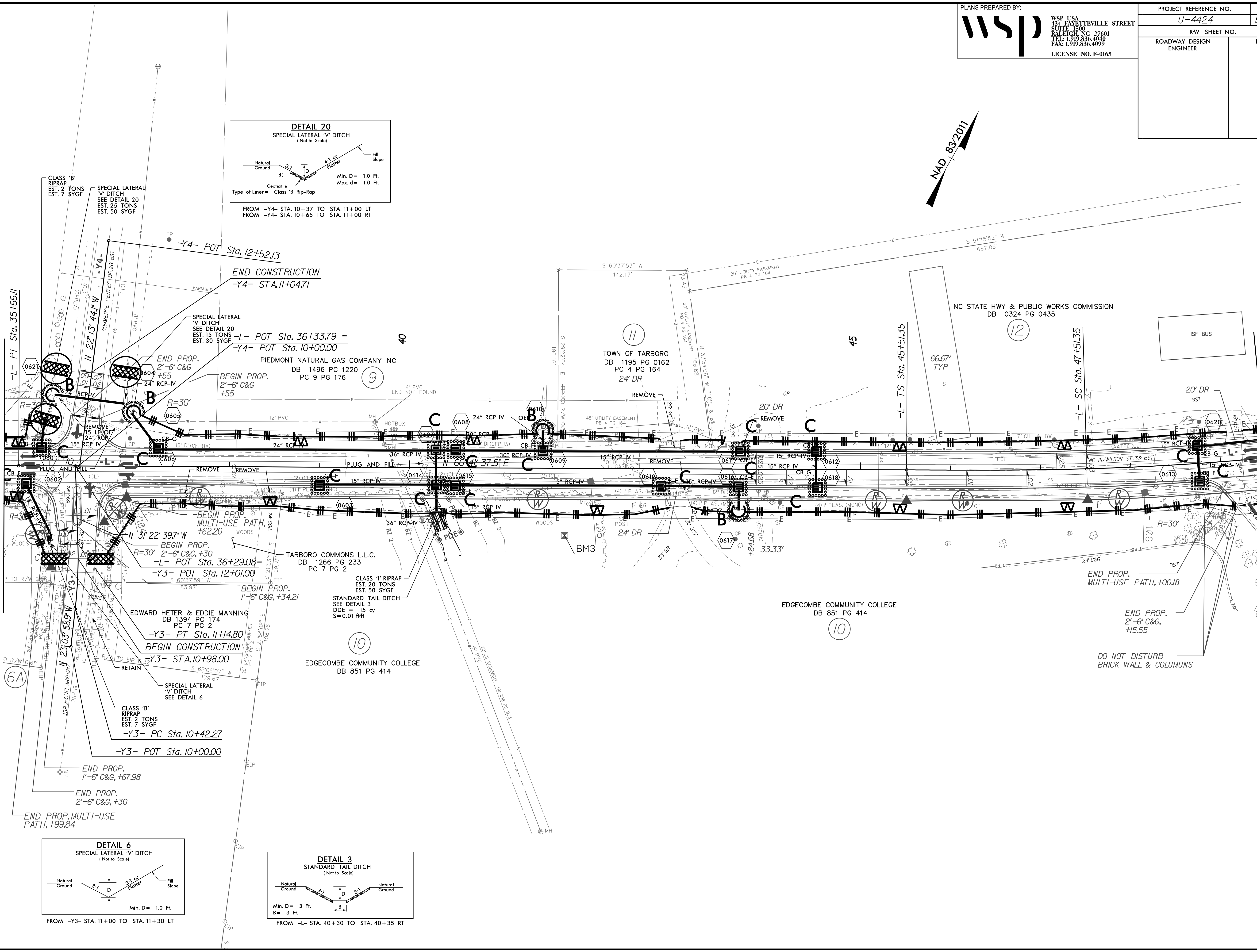
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06-APR-2023 10:13
SERVISORY CONTROL\CADD\U4424_EC_psh6_final.dgn
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SUITE 1500
RALEIGH, NC 27601
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FAX: 1.919.836.4099
LICENSE NO. F-0165


PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-16/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 05
-L- STA. 35+50.00

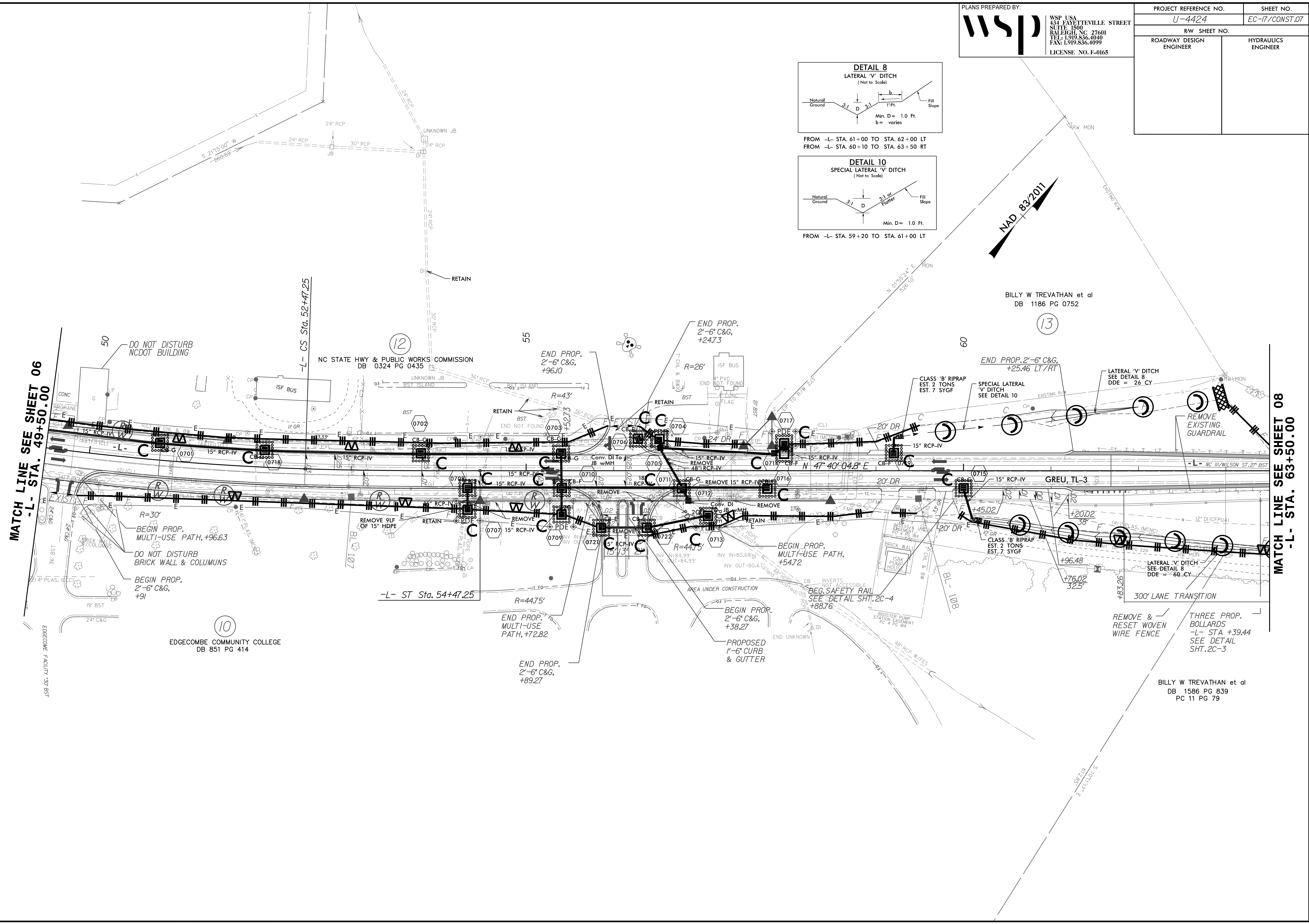
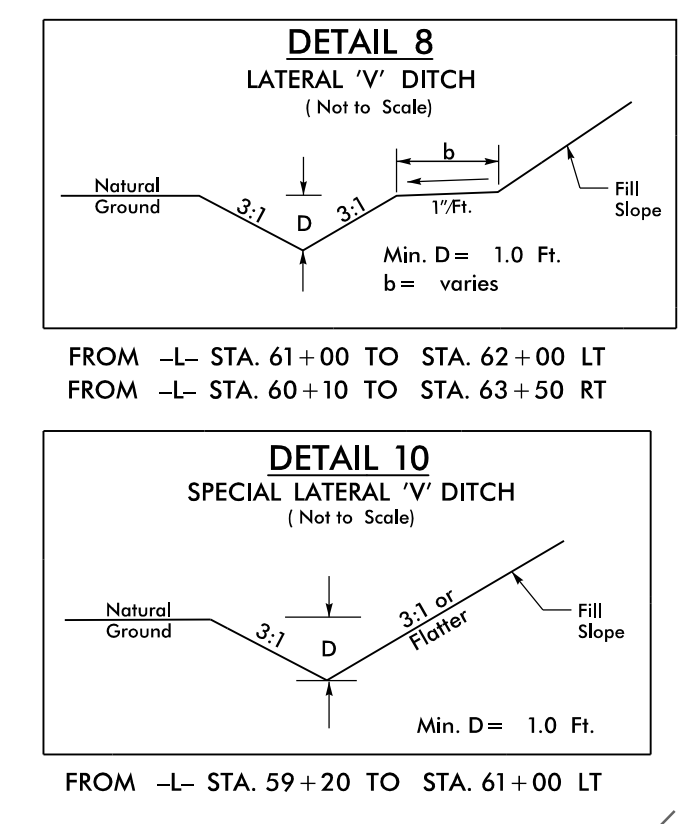
MATCH LINE SEE SHEET 07
-L- STA. 49+50.00




8/17/99
 06-APR-2023 10:43
 SERGIOR CONTROL\CADD\U4424_EC_psh7_final.dgn
 WSP

PLANS PREPARED BY:

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 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
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 FAX: 1.919.836.4099
 LICENSE NO. F-0165

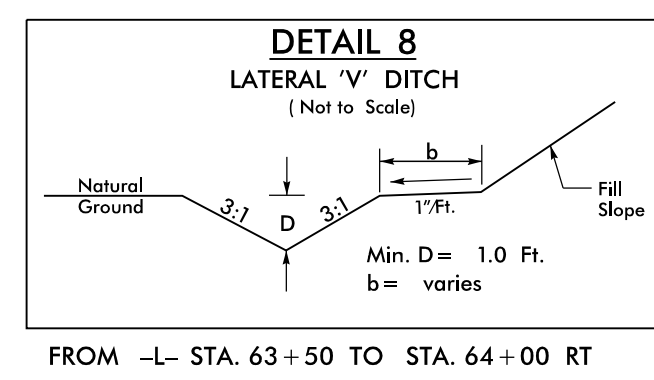
PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-17/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



06-APR-2023 10:43
 SERGIYOR CONTROL\CADD\U4424_EC_psh8_final.dgn
 WSP

PLANS PREPARED BY:

 WSP USA
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
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 FAX: 919.836.4099
 LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-18/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

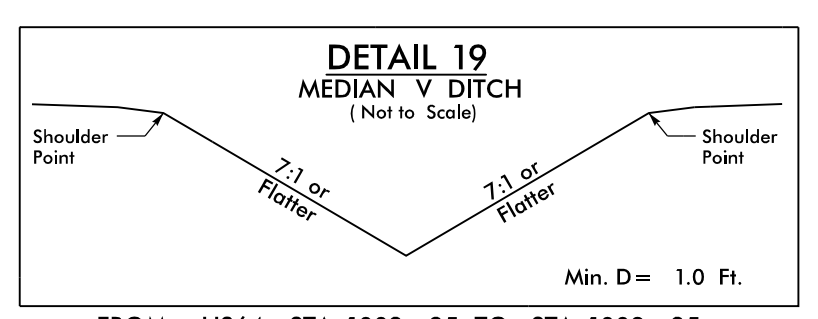
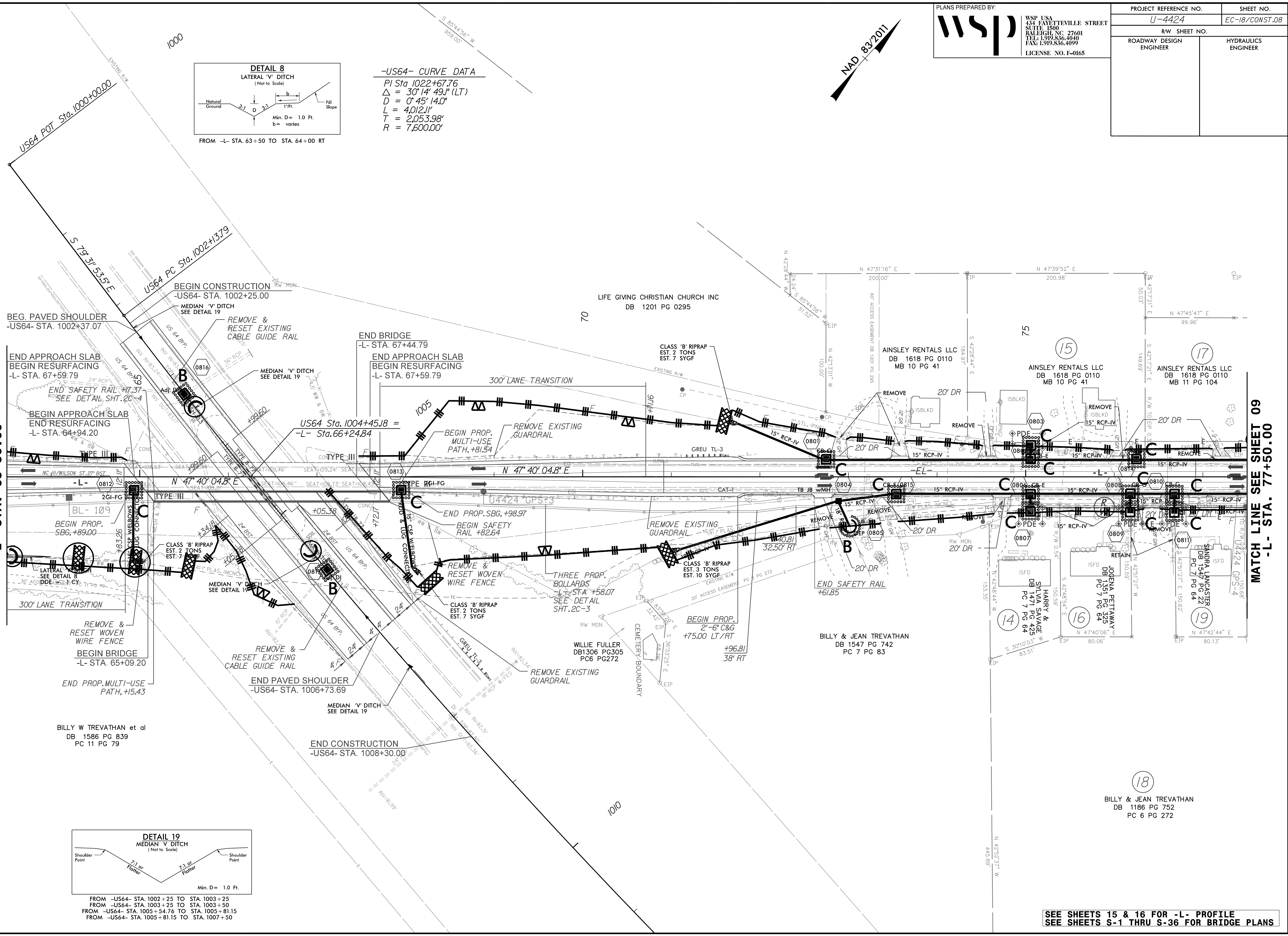


-US64- CURVE DATA
 PI Sta 1022+67.76
 $\Delta = 30^{\circ} 14' 49.1''$ (LT)
 $D = 0^{\circ} 45' 14.0''$
 $L = 4012.11'$
 $T = 2,053.98'$
 $R = 7,600.00'$



MATCH LINE SEE SHEET 07
 -L- STA. 63+50.00

MATCH LINE SEE SHEET 09
 -L- STA. 77+50.00



FROM -US64- STA. 1002+25 TO STA. 1003+25
 FROM -US64- STA. 1003+25 TO STA. 1003+50
 FROM -US64- STA. 1005+54.76 TO STA. 1005+81.15
 FROM -US64- STA. 1005+81.15 TO STA. 1007+50

SEE SHEETS 15 & 16 FOR -L- PROFILE
 SEE SHEETS S-1 THRU S-36 FOR BRIDGE PLANS

8.17.99
06-APR-2023 10:13
SERVISOR CONTROL\CADD\U4424_EC_psh9_final.dgn
WSP

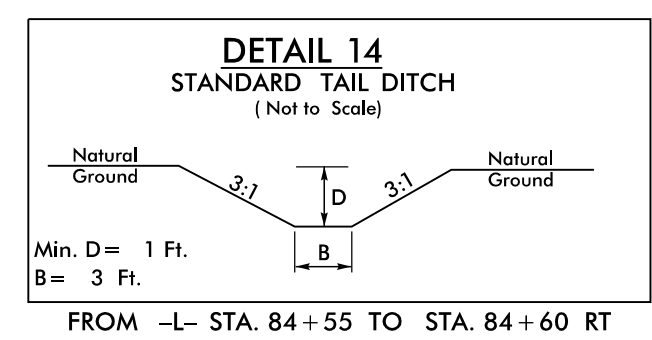
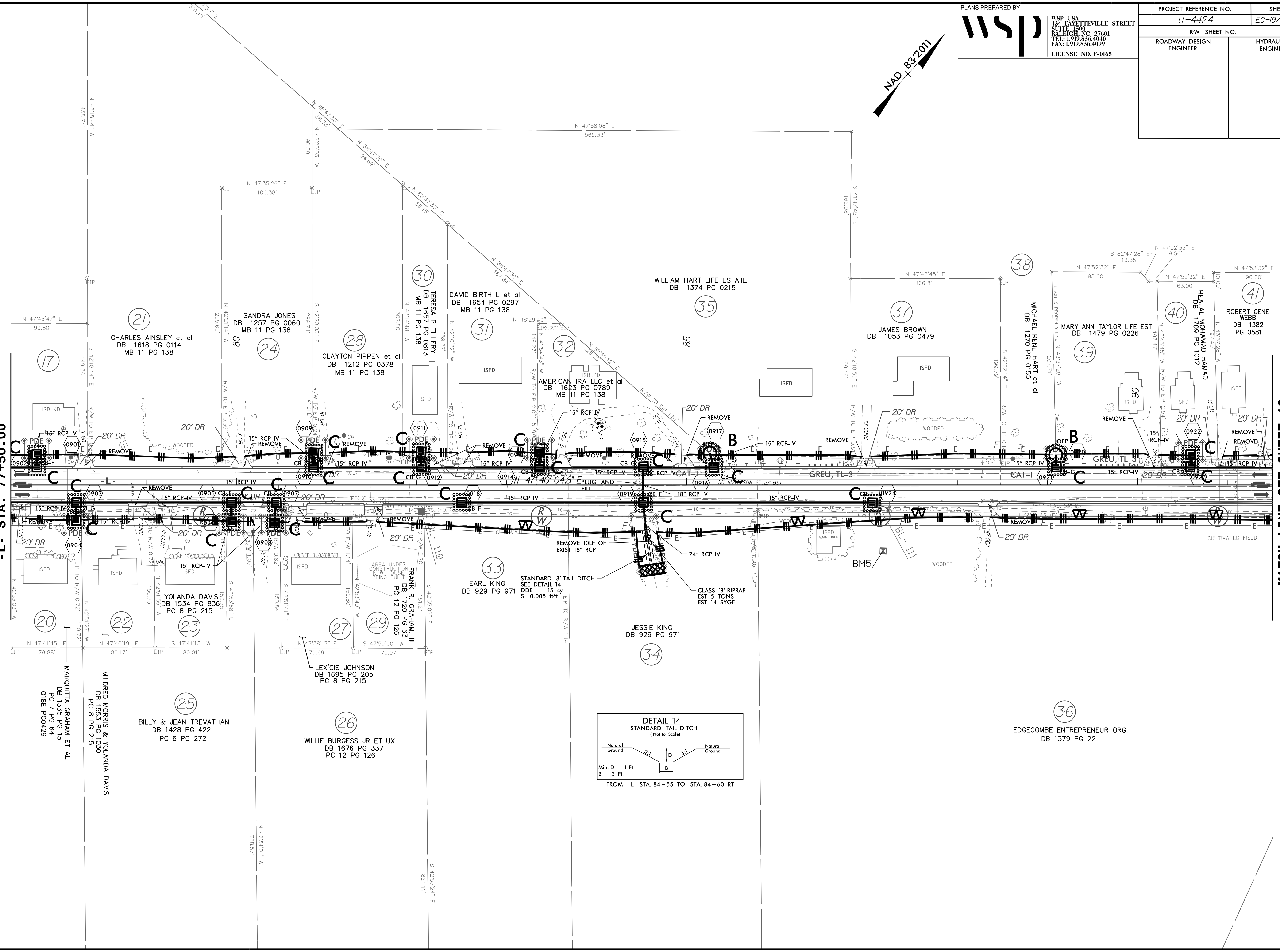
PLANS PREPARED BY:
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WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
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PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-19/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 08
-L- STA. 77+50.00

MATCH LINE SEE SHEET 10
-L- STA. 91+50.00



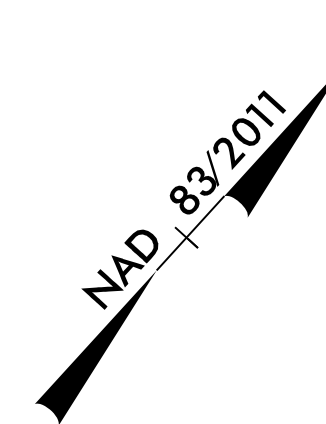
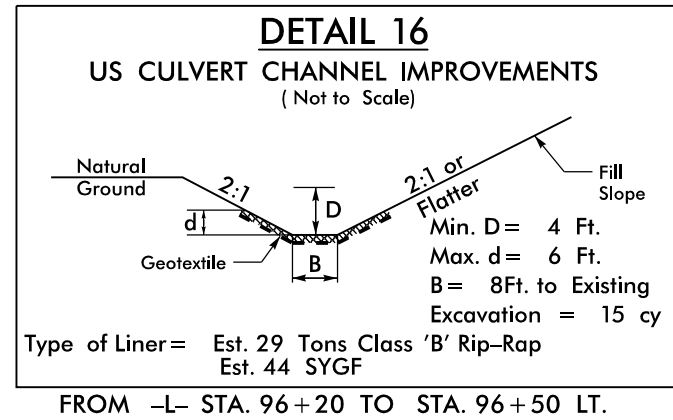
8/17/99

PLANS PREPARED BY:



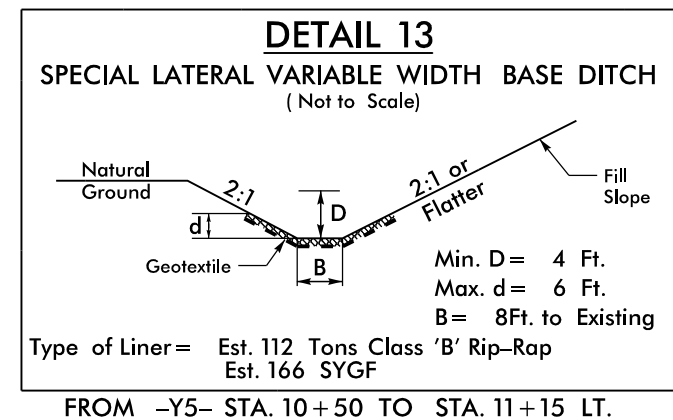
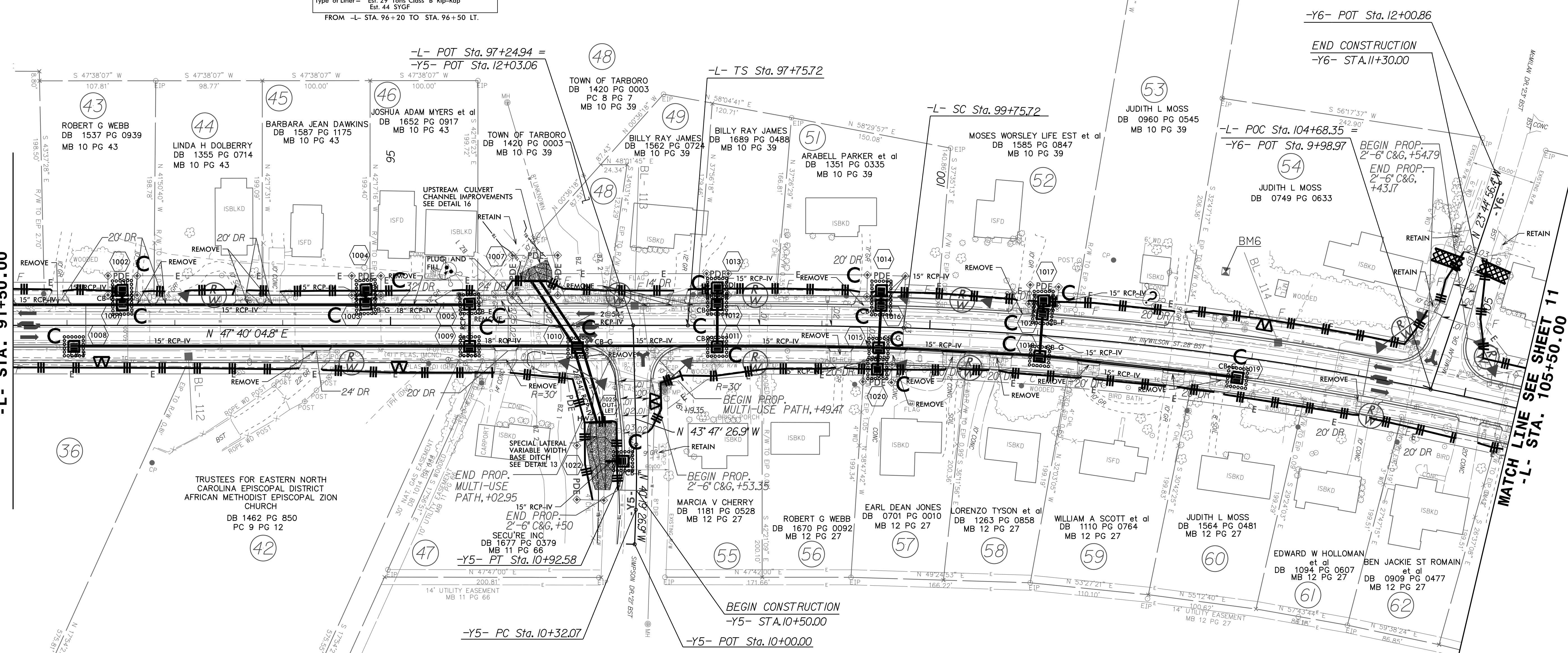
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
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FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO. U-4424	SHEET NO. EC-20/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 09
-L- STA. 91+50.00

MATCH LINE SEE SHEET 11
-L- STA. 105+50.00



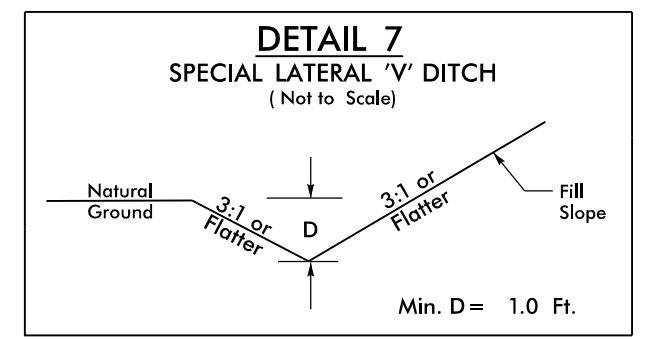
NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM)
FROM STA. -Y5- 10+50 LT (+/-) TO STA. -Y5- 11+15 LT (+/-)
AND EXTEND PSRM LIMITS TO 2:1(H:V) SLOPE.

SEE SHEETS 16 & 17 FOR -L- PROFILE
SEE SHEET 20 FOR -Y5- PROFILE
SEE SHEET 20 FOR -Y6- PROFILE

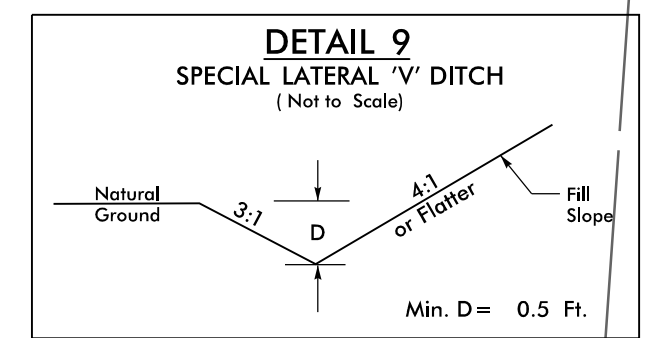
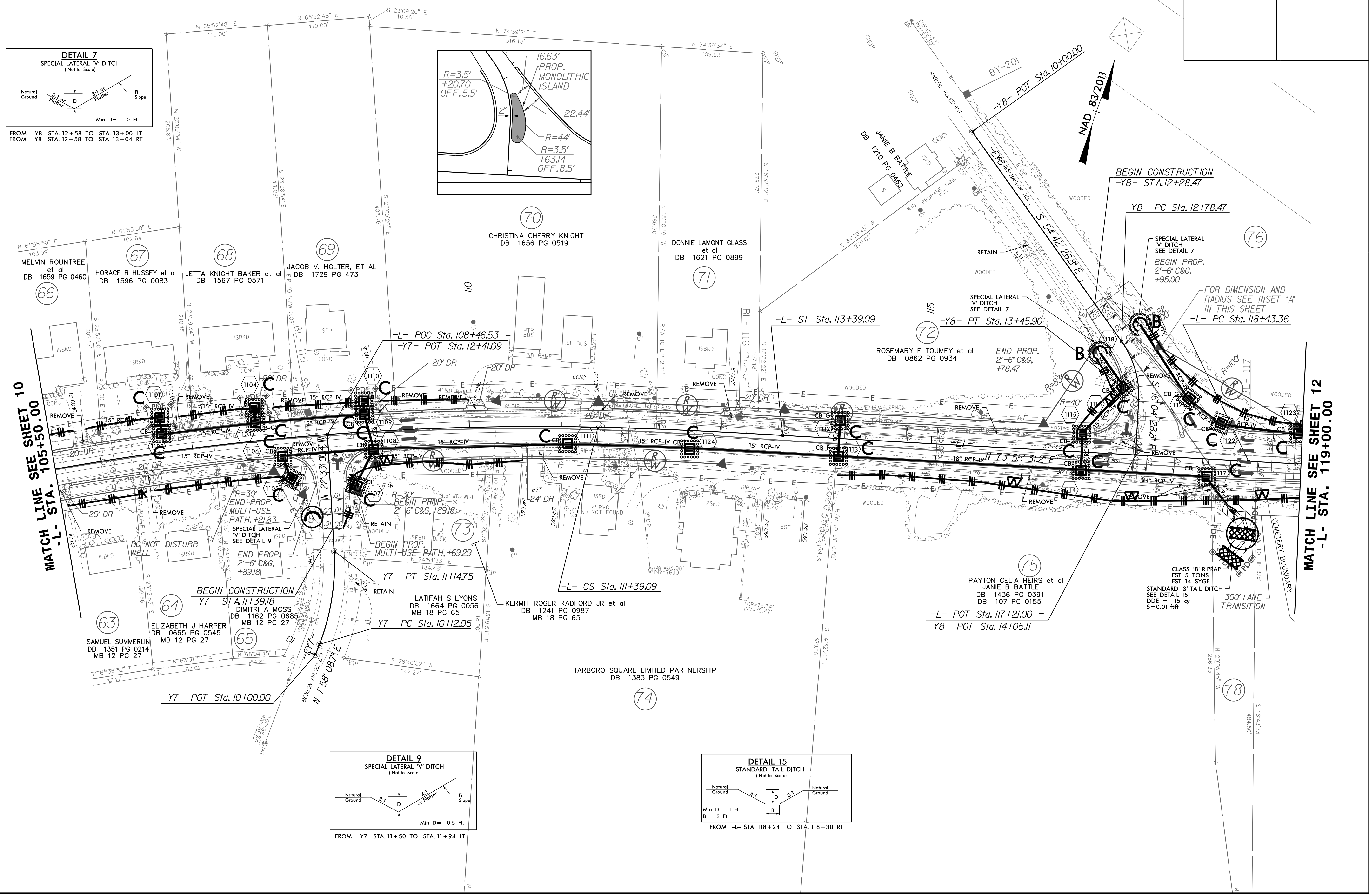
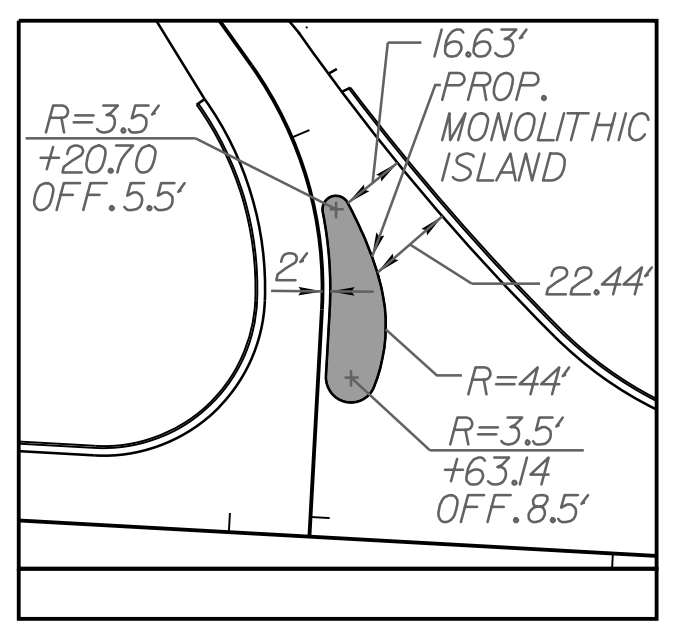
8.17/99
06-APR-2023 10:43
SERVOSTORY CONTROL\CADD\U4424_EC_psh11_final.dgn
WSP

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WSP USA
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SUITE 1500
RALEIGH, NC 27601
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FAX: 1.919.836.4099
LICENSE NO. F-0165

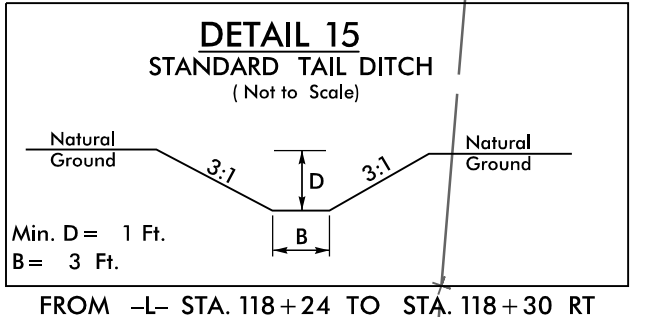
PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-21/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM -Y8- STA. 12+58 TO STA. 13+00 LT
FROM -Y8- STA. 12+58 TO STA. 13+04 RT



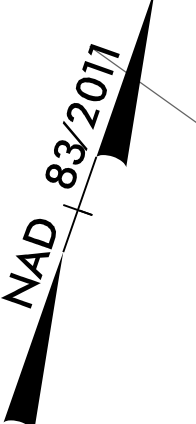
FROM -Y7- STA. 11+50 TO STA. 11+94 LT



FROM -L- STA. 118+24 TO STA. 118+30 RT

MATCH LINE SEE SHEET 12
-L- STA. 119+00.00

MATCH LINE SEE SHEET 10
-L- STA. 105+50.00

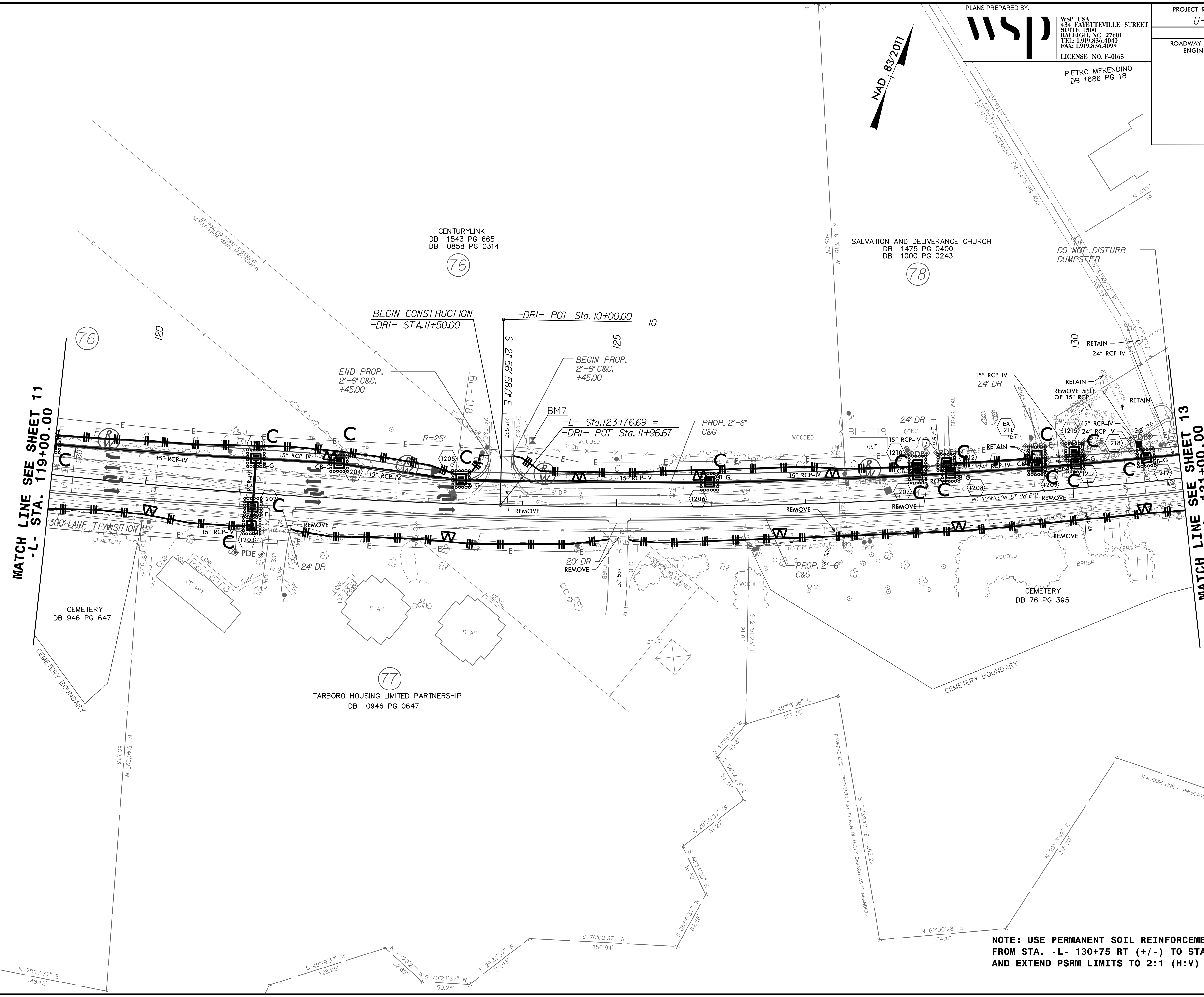


8.17/99
06-APR-2023 10:43
SERVISOR CONTROL\CADD\U4424_EC_psh12_f.mel.dgn
WSP

PLANS PREPARED BY:
WSP
WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-22/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PIETRO MERENDINO
DB 1686 PG 18

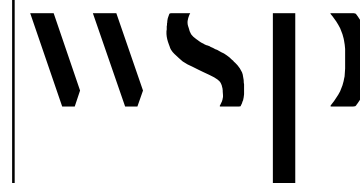


MATCH LINE SEE SHEET 11
-L- STA. 119+00.00

MATCH LINE SEE SHEET 13
-L- STA. 131+00.00

**NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM)
FROM STA. -L- 130+75 RT (+/-) TO STA. -L- 132+75 RT (+/-)
AND EXTEND PSRM LIMITS TO 2:1 (H:V) SLOPE.**

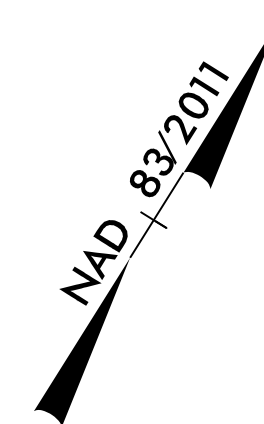
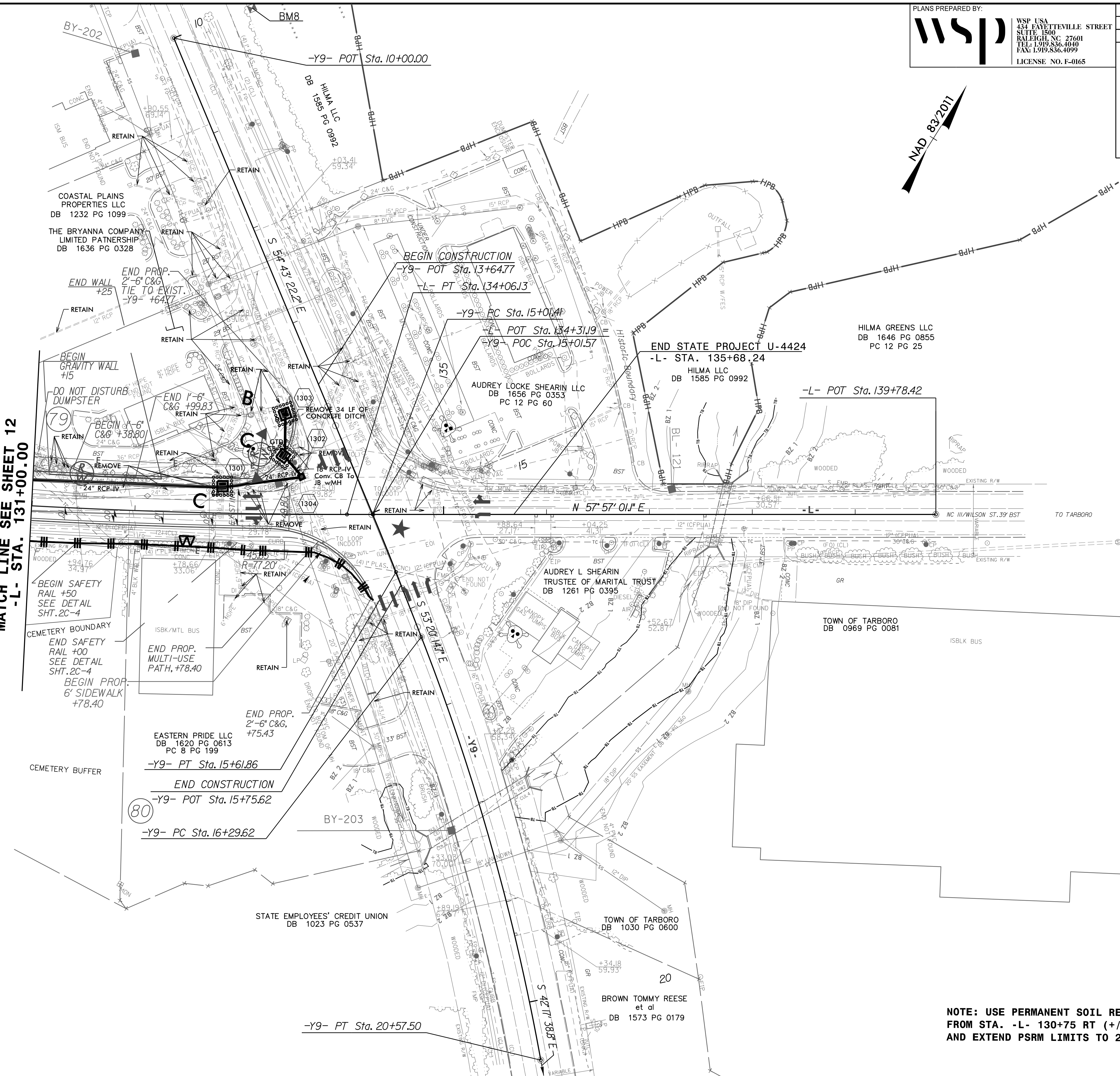
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PROJECT REFERENCE NO.	SHEET NO.
U-4424	EC-23/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 12
-L- STA. 131+00.00



NOTE: USE PERMANENT SOIL REINFORCEMENT MAT (PSRM) FROM STA. -L- 130+75 RT (+/-) TO STA. -L- 132+75 RT (+/-) AND EXTEND PSRM LIMITS TO 2:1 (H:V) SLOPE.