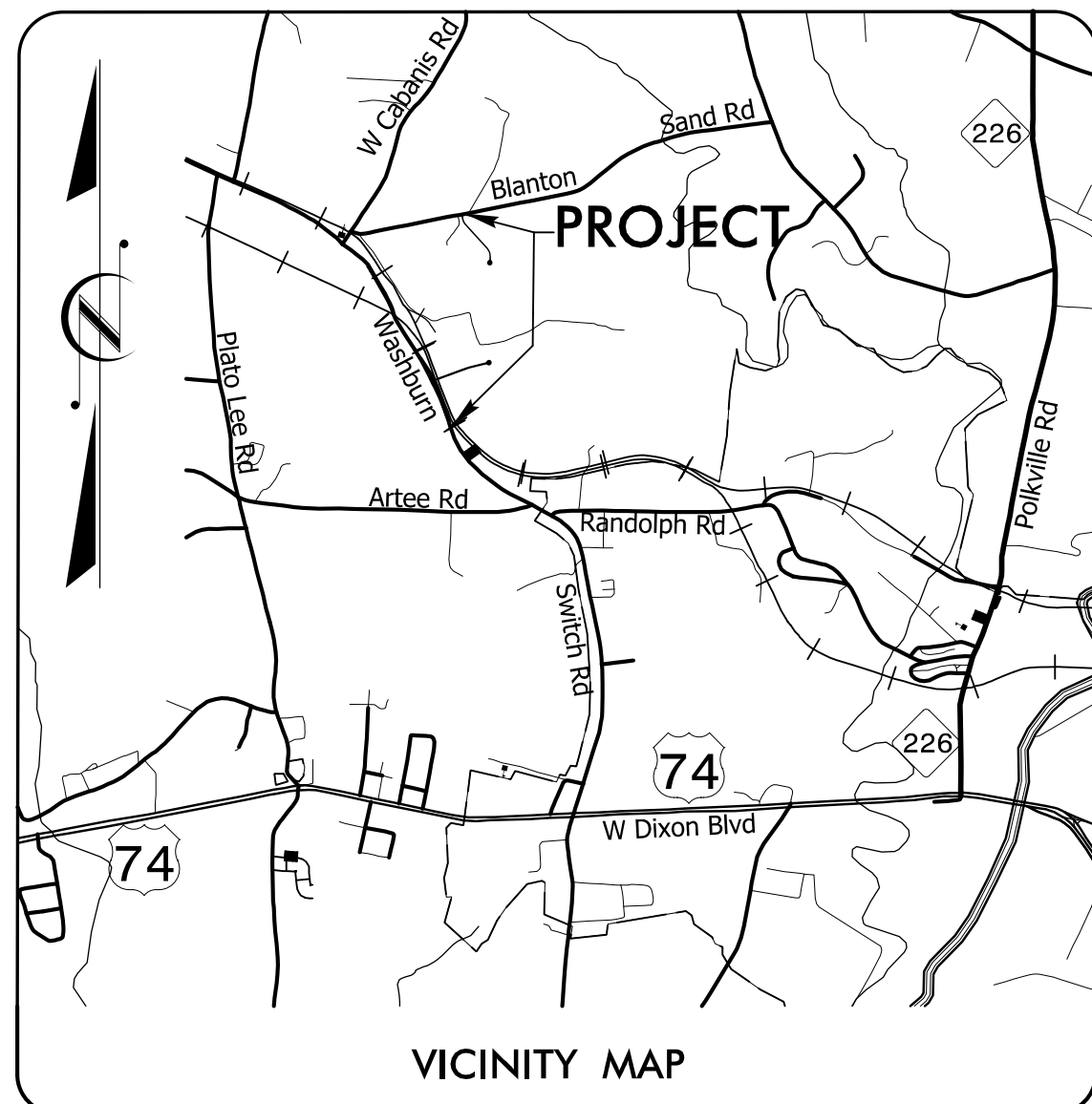


CLEVELAND COUNTY

PLAN FOR PROPOSED EROSION CONTROL



**LOCATION: WASHBURN SWITH BUSINESS PARK
ADDITION OF TURN LANES ON SR 1313
(WASHBURN SWITCH RD) AND NEW
INDUSTRIAL ENTRANCES TO WASHBURN
SWITCH BUSINESS PARK**

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

CUT = 8,100 +/- CY
FILL = 30,600 +/- CY
BORROW = 22,500 +/- CY
*CONTRACTOR WILL BE RESPONSIBLE FOR BORROW SOIL TO BE OBTAINED OFF-SITE (SEE DETAIL SHEET 11).

BEGIN CONSTRUCTION
-Y2- STA. 10 + 08.85

PROPOSED CONSTRUCTION AREAS
TOTAL DISTURBED AREA = 11.2 ACRES
AREA TO BE SEEDED UPON COMPLETION = 3.6 ACRES

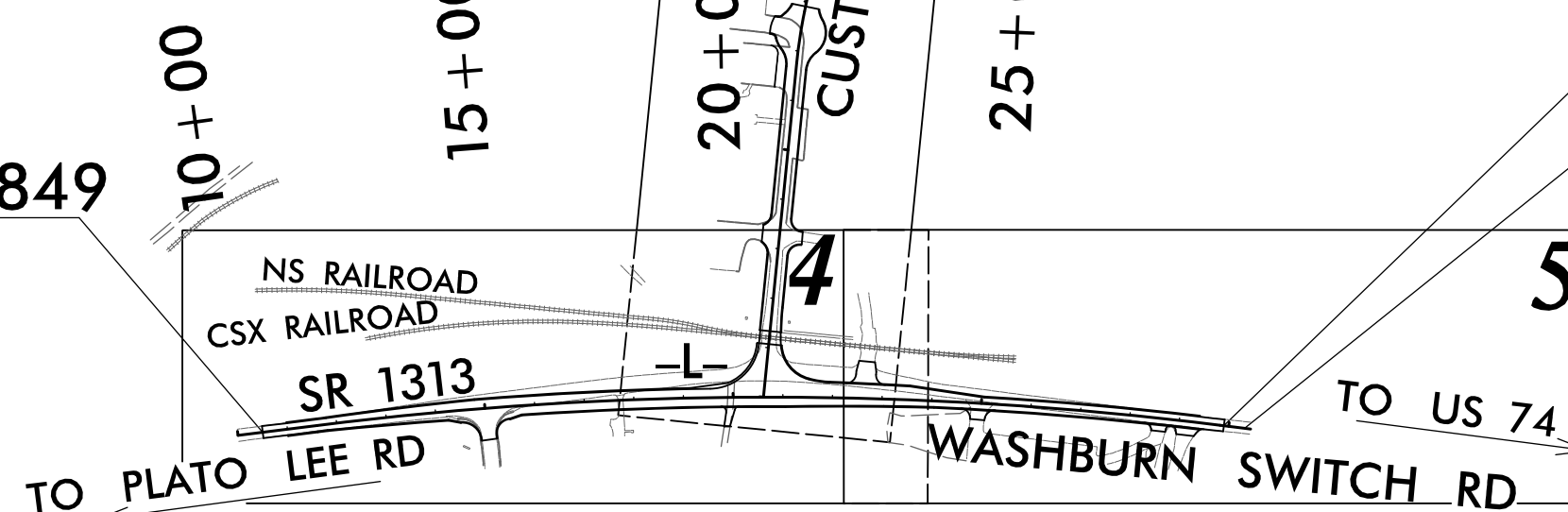
BEGIN TIP PROJECT R-5849
-L- STA. 10 + 50.00

END CONSTRUCTION
-Y2- STA. 21 + 20.00

END CONSTRUCTION
-Y1- STA. 17 + 91.00

END TIP PROJECT R-5849
-L- STA. 29 + 90.00

END CONSTRUCTION
-L- STA. 30 + 32.00



PROJECT FOR: CLEVELAND COUNTY, NC
CONTACT: BRIAN HOAGLUND (702)289-2459
PROJECT ADDRESS: 658 WASHBURN SWITCH RD, SHELBY, NC 28150

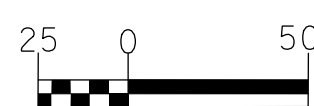
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5849	EC-1	12
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47406.1.1	N/A	PE	
47406.2.1	N/A	R/W & UTIL	
47406.3.1	N/A	CONST	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TS
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

GRAPHIC SCALE



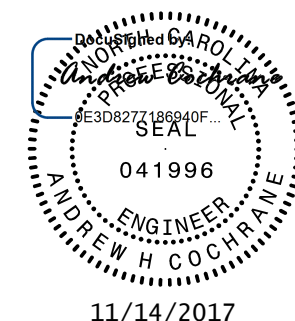
PLANS
1" = 50'

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared In the Office of:
TGS ENGINEERS
804-C N. LAFAYETTE ST.
SHELBY, NC 28150

Designed by:

Andrew H. Cochrane
NAME



Reviewed In the Office of:
NC DEQ - MOORESVILLE REGIONAL
610 EAST CENTER AVE.
MOORESVILLE, NC 28115

Reviewed by:

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 Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

NAD 83/2011

NOTES:

- FOR MAINTENANCE RESPONSIBILITY CONTACT:
BRIAN HOAGLUND (702)289-2459

-PROJECT ADDRESS: 658 WASHBURN SWITCH RD,
SHELBY, NC 28150

- INSTALL GEOTEXTILE MATTING ON FILL SLOPES OF
ALL BASINS (SEE DETAIL SHEET 3)

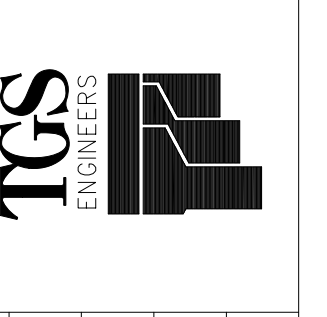
- NO LOCATIONS OUTSIDE OF DISTURBED AREA TO BE
USED AS CONSTRUCTION ROADS.

- PROJECT IS LOCATED IN BROAD RIVER BASIN

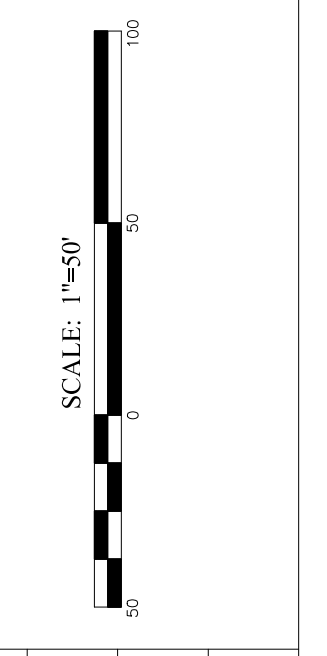
- AREA TO BE SEEDED UPON COMPLETION IS +/- 3.6
ACRES

- ADDITIONAL EROSION CONTROL MEASURES MAY BE
REQUIRED DURING THE COURSE OF THIS PROJECT.

TGS ENGINEERS
804-C N. LAFAYETTE ST.
SHELBY, NC 28150
C-0275
PHONE: 704-476-0003
FAX: 704-476-0024



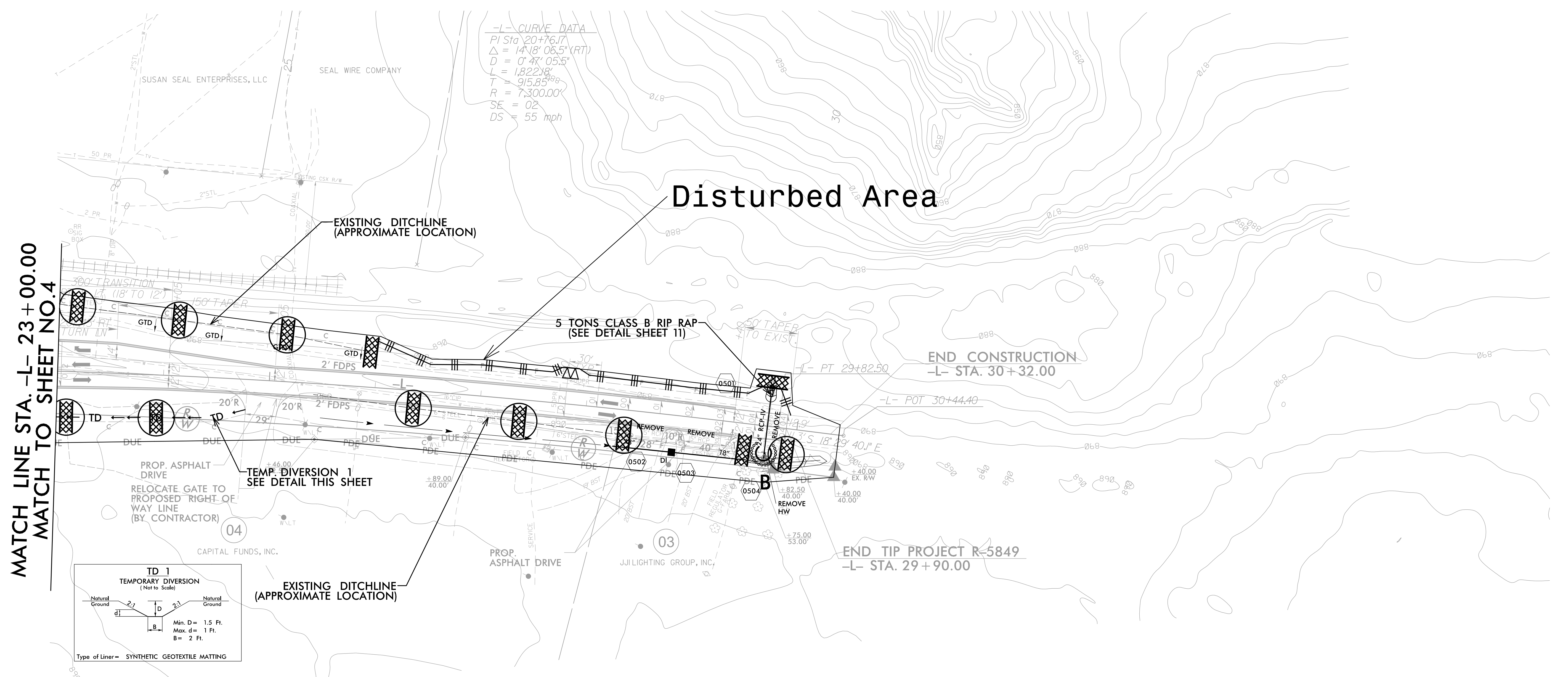
NO.	DATE	BY	DESCRIPTION



R-5849 JOB NO.	1"=50' SCALE
AHC PREPARED BY	BCH CHECKED BY
APPROVED BY	DATE

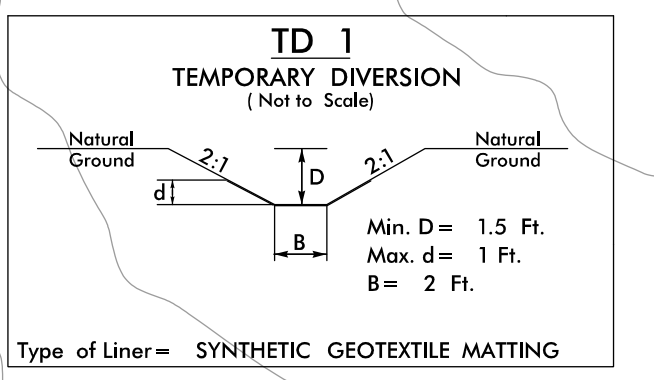
WASHBURN SWITCH
BUSINESS PARK
EROSION CONTROL
PLAN

SHEET 3 OF 12

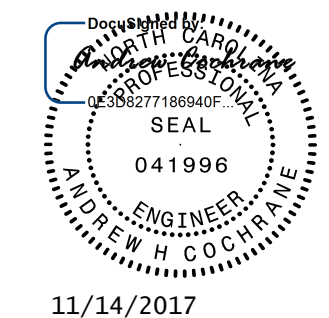


-L- CURVE DATA
 PI Sta 20+76.17
 $\Delta = 141^{\circ} 08.5' (RT)$
 $D = 0^{\circ} 47' 05.5''$
 $L = 1,822.18'$
 $T = 915.85'$
 $R = 7,300.00'$
 $SE = 02$
 $DS = 55 \text{ mph}$

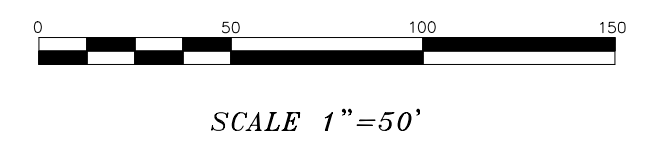
MATCH LINE STA. -L- 23 + 00.00
MATCH TO SHEET NO. 4

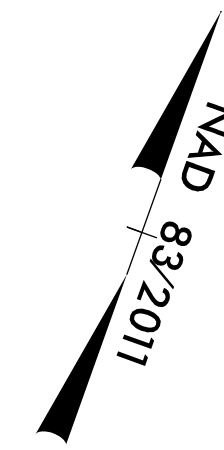


SEE TITLE SHEET FOR LEGEND



11/14/2017





NOTES:

- FOR MAINTENANCE RESPONSIBILITY CONTACT:
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ALL BASINS (SEE DETAIL SHEET 3)

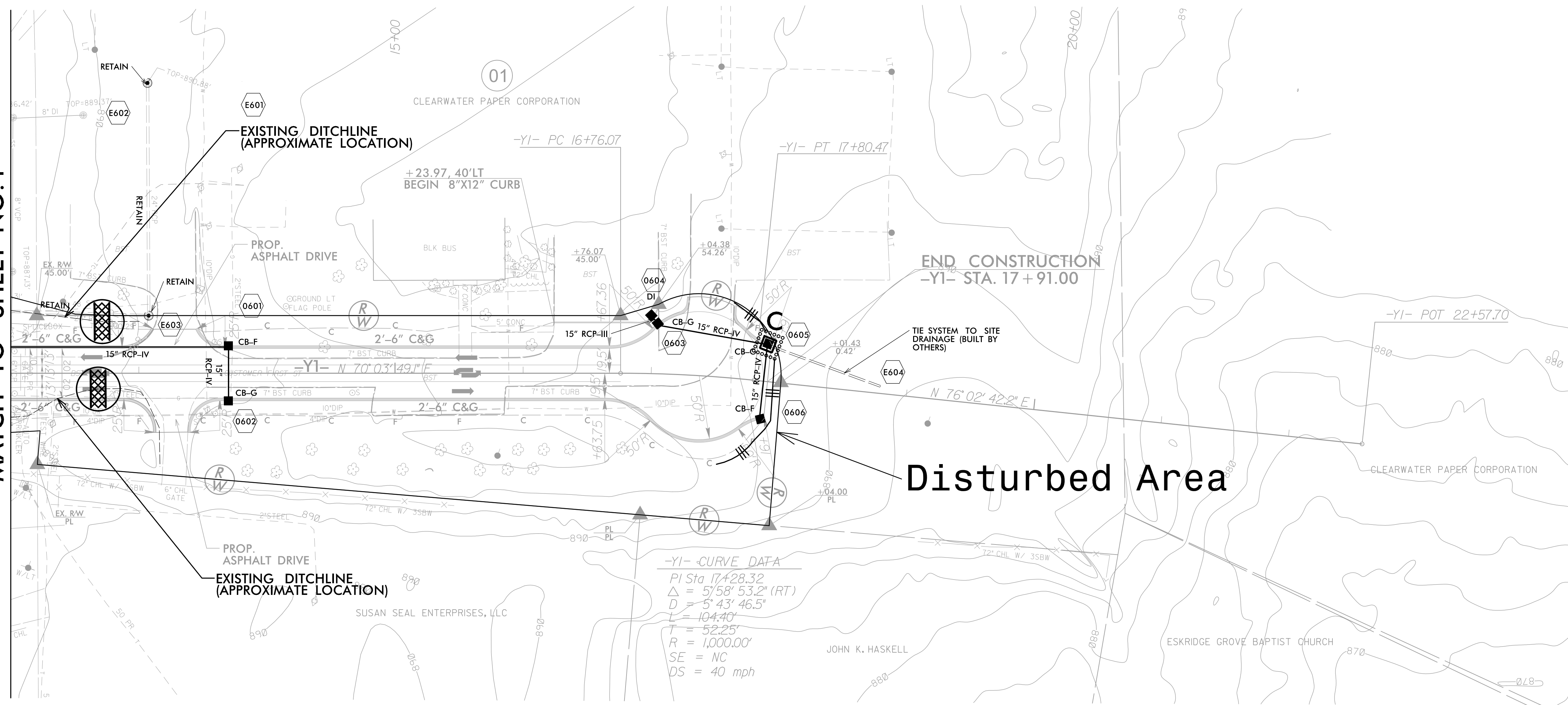
- NO LOCATIONS OUTSIDE OF DISTURBED AREA TO BE
USED AS CONSTRUCTION ROADS.

- PROJECT IS LOCATED IN BROAD RIVER BASIN

- AREA TO BE SEEDED UPON COMPLETION IS +/- 3.6
ACRES

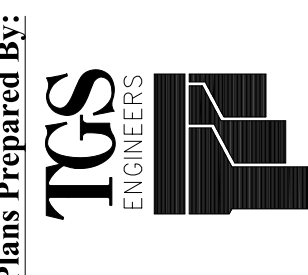
- ADDITIONAL EROSION CONTROL MEASURES MAY BE
REQUIRED DURING THE COURSE OF THIS PROJECT.

MATCH LINE STA. -Y1- 12+00.00
MATCH TO SHEET NO.4



-Y1- CURVE DATA
 PI Sta 17+28.32
 $\Delta = 57^{\circ}58'53.2''$ (RT)
 $D = 5^{\circ}43'46.5''$
 $L = 104.40'$
 $T = 52.25'$
 $R = 1,000.00'$
 $SE = NC$
 $DS = 40$ mph

TGS ENGINEERS
 804-C N. LAFAYETTE ST.
 SHELBY, NC 28150
 C-0275
 PHONE: 704-476-0003
 FAX: 704-476-0024



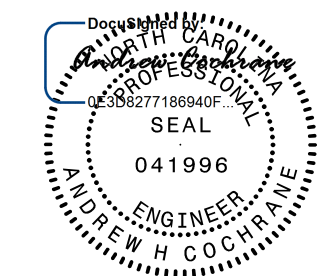
NO.	DATE	BY	DESCRIPTION



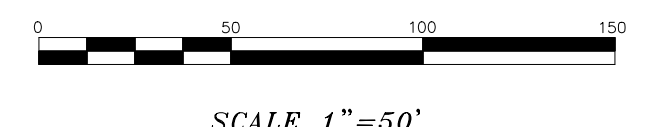
R-5849 JOB NO.	1"=50' SCALE	CAD FILE PATH	BCH CHECKED BY	September 2017 DATE
AHC PREPARED BY				
APPROVED BY				

**WASHBURN SWITCH
 BUSINESS PARK
 EROSION CONTROL
 PLAN**

SEE TITLE SHEET FOR LEGEND



11/14/2017



SHEET **4** OF **12**

NAD 83/2011

NOTES:

- FOR MAINTENANCE RESPONSIBILITY CONTACT:
BRIAN HOAGLUND (702)289-2459

-PROJECT ADDRESS: 658 WASHBURN SWITCH RD,
SHELBY, NC 28150

- INSTALL GEOTEXTILE MATTING ON FILL SLOPES OF
ALL BASINS (SEE DETAIL SHEET 3)

- NO LOCATIONS OUTSIDE OF DISTURBED AREA TO BE
USED AS CONSTRUCTION ROADS.

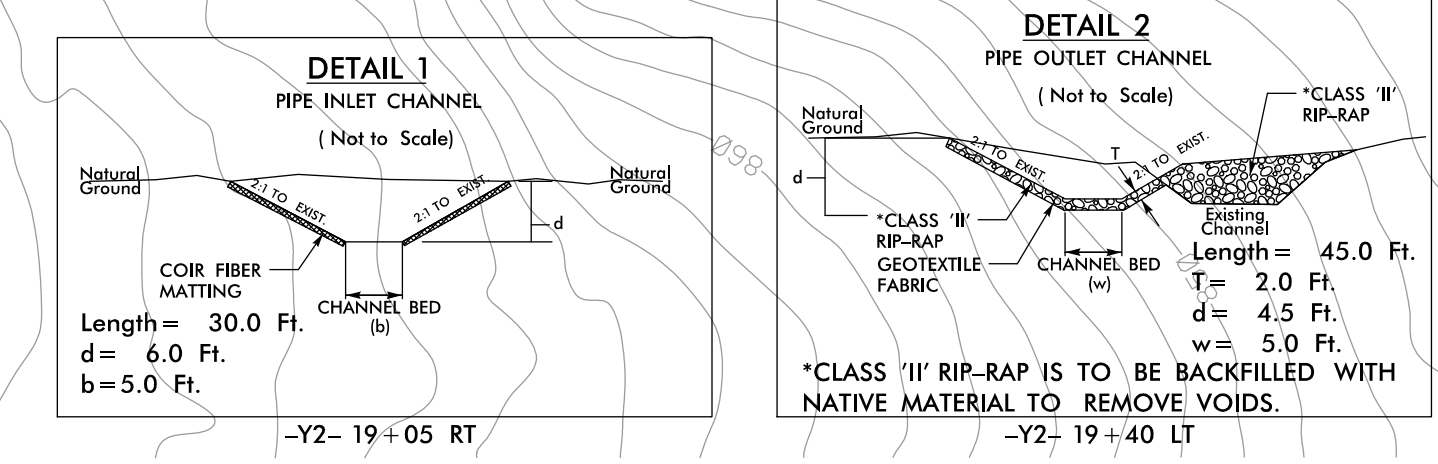
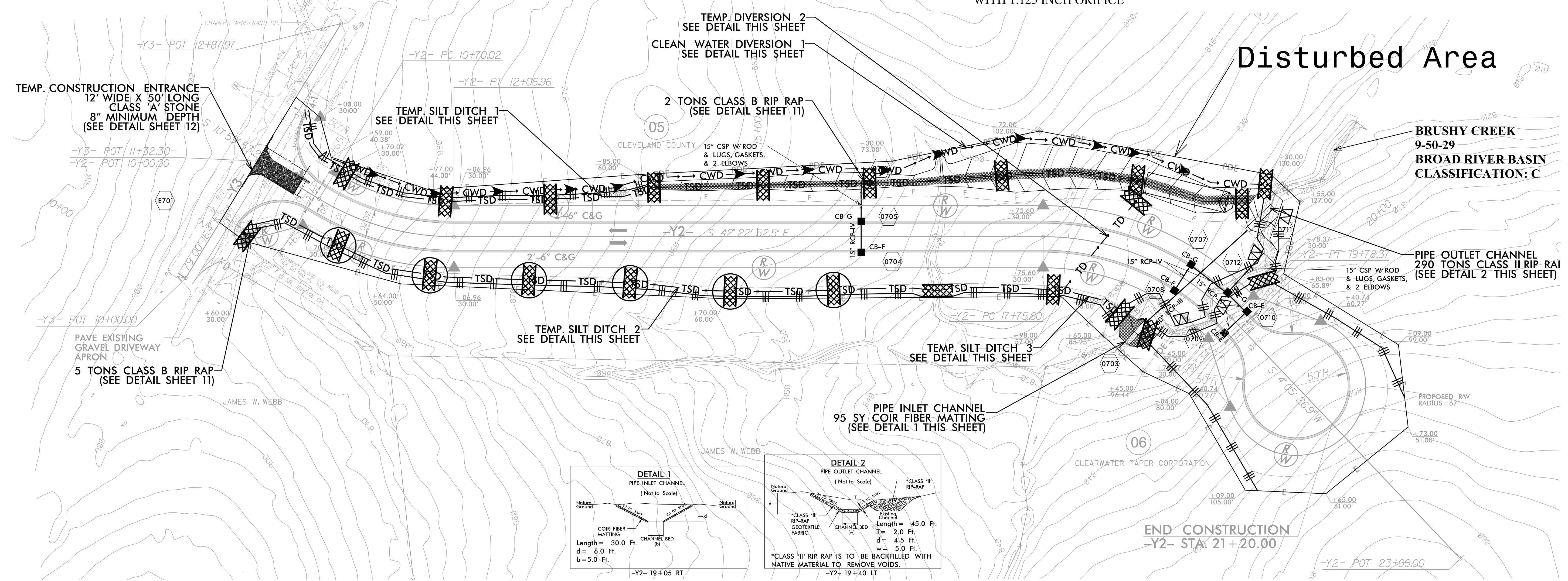
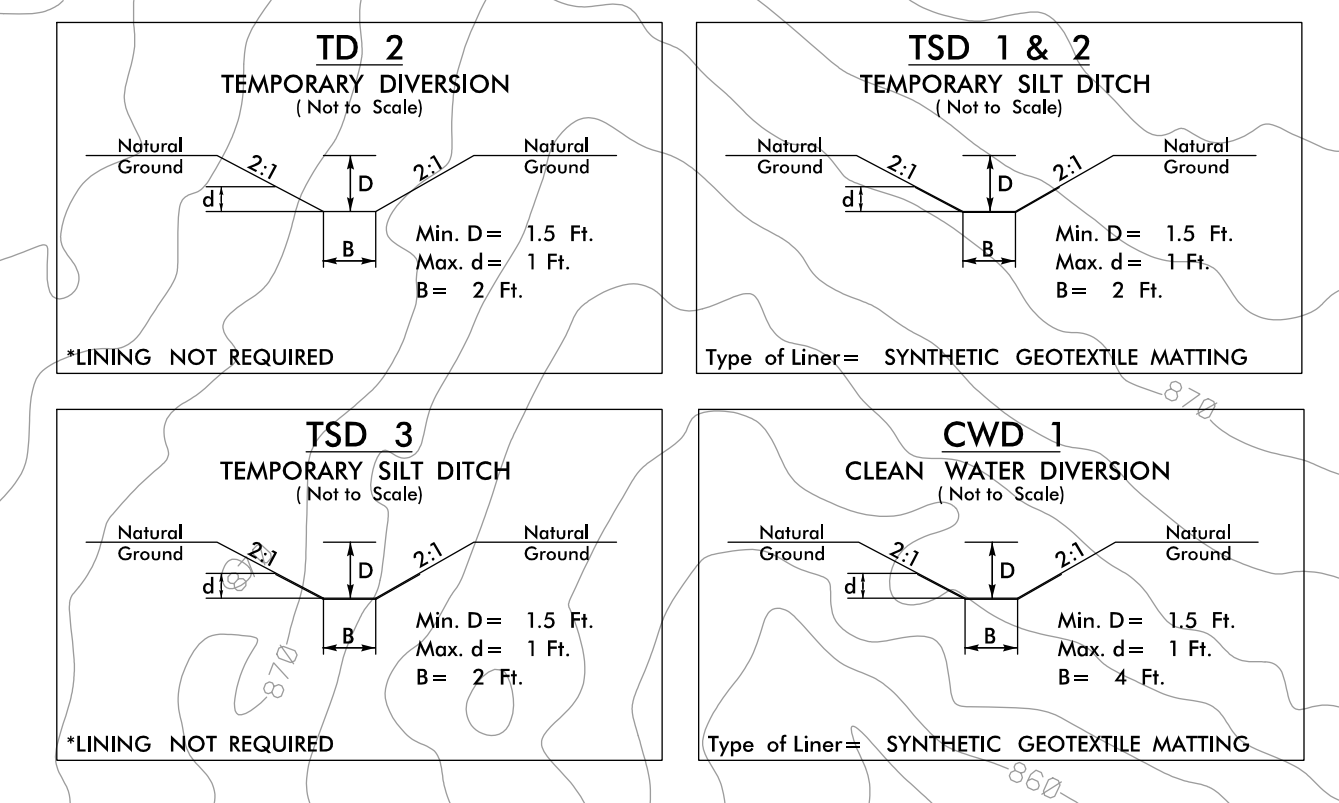
- PROJECT IS LOCATED IN BROAD RIVER BASIN

- AREA TO BE SEEDED UPON COMPLETION IS +/- 3.6
ACRES

- ADDITIONAL EROSION CONTROL MEASURES MAY BE
REQUIRED DURING THE COURSE OF THIS PROJECT.

SKIMMER BASIN #1
SEE SHEET 11 FOR DETAILS
DRAINAGE AREA = 1.6 ACRES
DISTURBED AREA = 1.6 ACRES
SURFACE AREA = 1600 SF +/-
SPILLWAY ELEV. = 825'
WEIR LENGTH = 5'
TOP OF EMBANKMENT = 826.5'
BOTTOM OF BASIN ELEV. = 822'
BOTTOM DIMENSIONS = 68' x 8'
TOP DIMENSIONS = 80' x 20'
INSTALL BAFFLES @
20', 40', AND 60' FROM INLET
SEE DETAIL SHEET 12

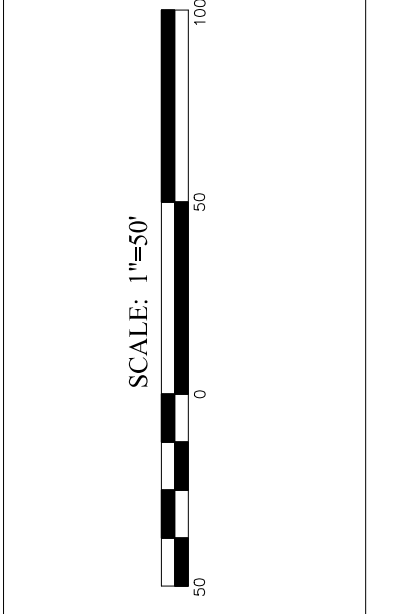
USE 1.5 INCH SKIMMER
WITH 1.125 INCH ORIFICE



TGS ENGINEERS
804-C.N. LAFAYETTE ST.
SHELBY, NC 28150
C-0275
PHONE: 704-476-0003
FAX: 704-476-0024

Plans Prepared By:
TGS ENGINEERS

NO.	DATE	BY	DESCRIPTION



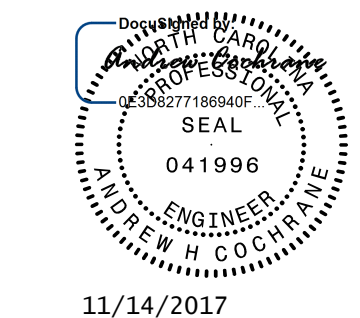
R-5849	JOB NO.	CAD FILE PATH	BCH	CHECKED BY	DATE
			AHC	PREPARED BY	

**WASHBURN SWITCH
BUSINESS PARK**

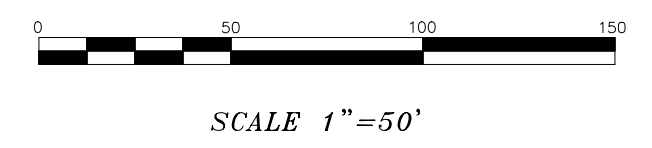
**EROSION CONTROL
PLAN**

SHEET **5** OF **12**

SEE TITLE SHEET FOR LEGEND



11/14/2017

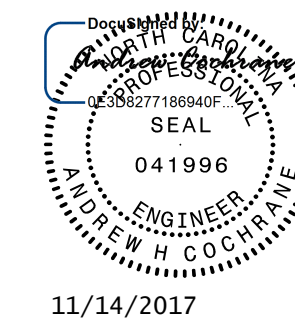
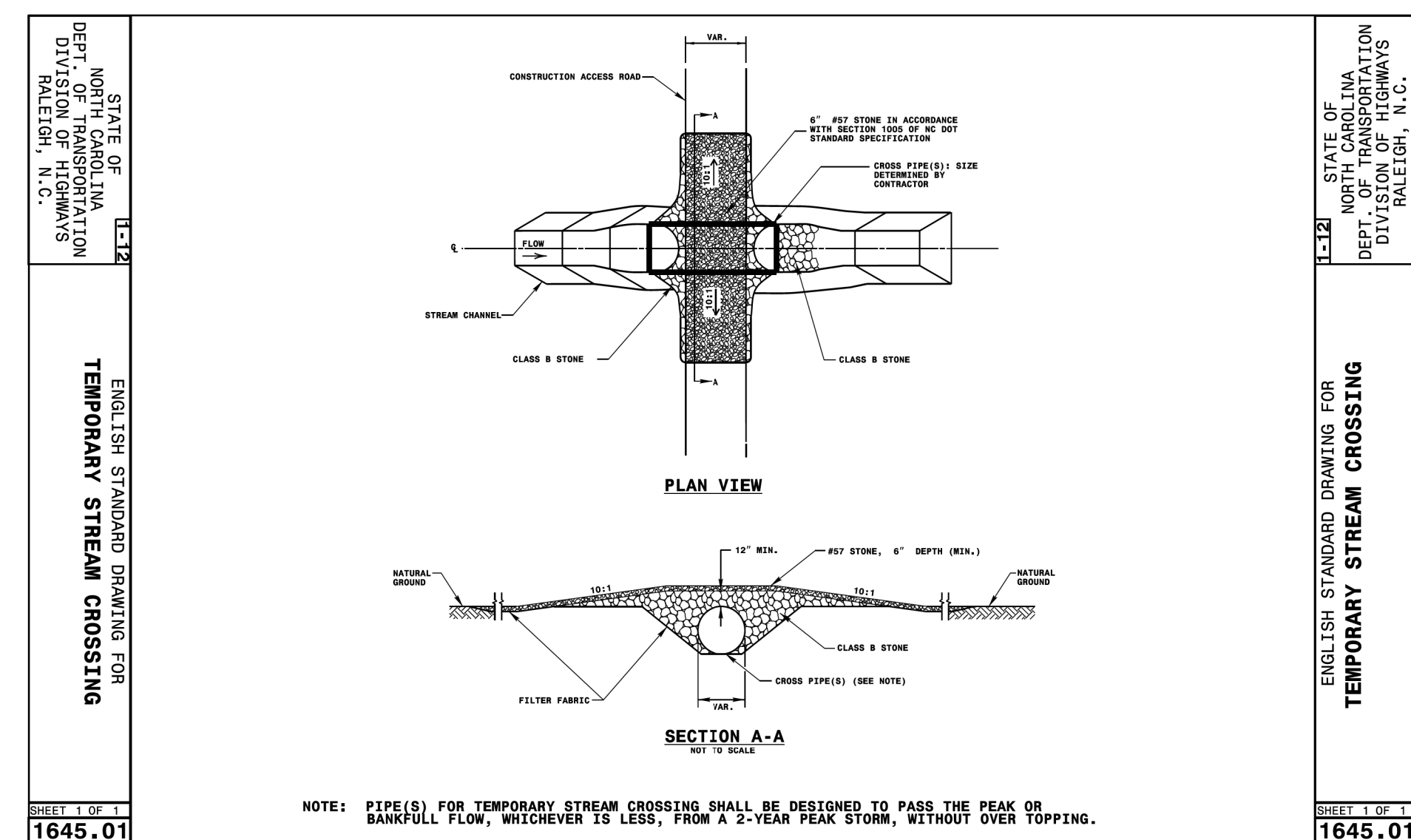
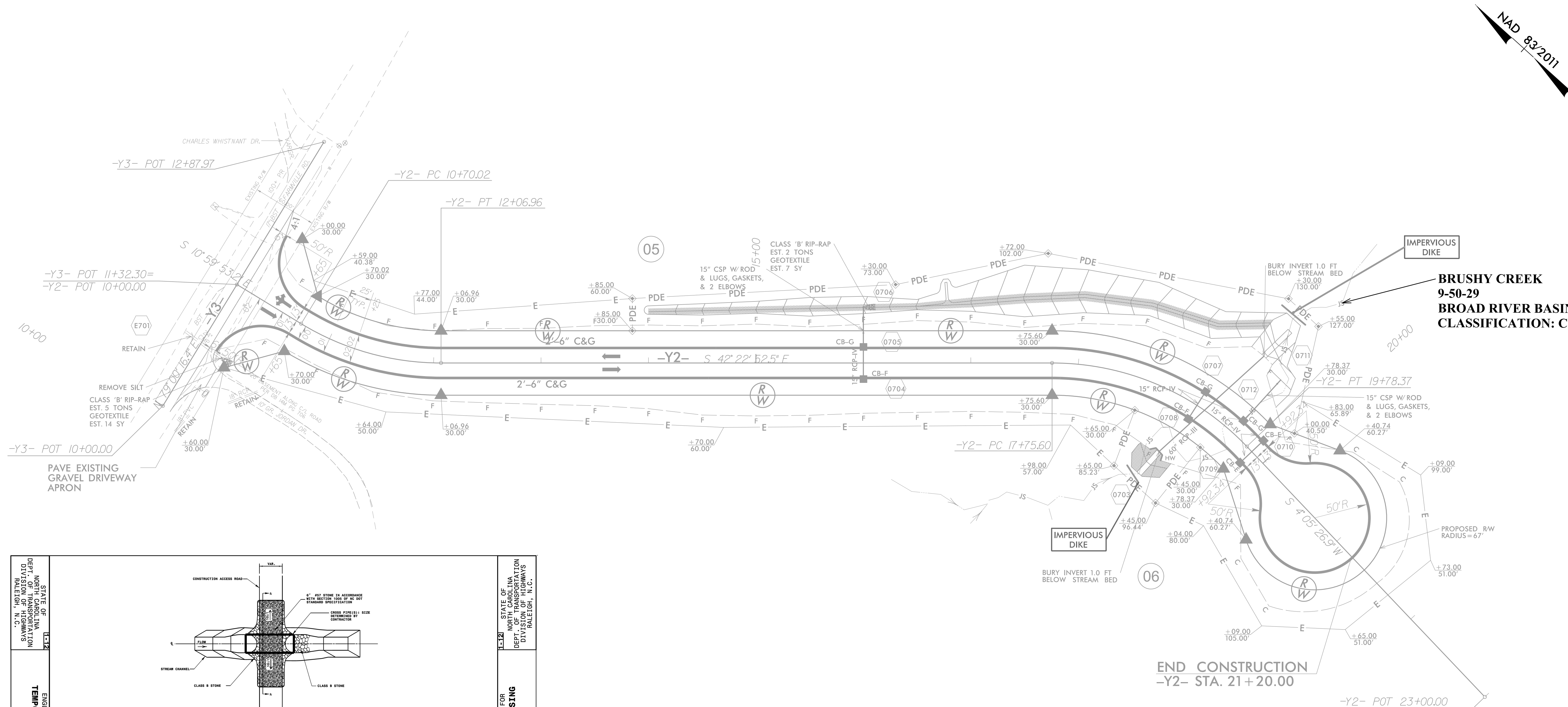


CULVERT CONSTRUCTION SEQUENCE STA. 19+26 -L-

PHASING

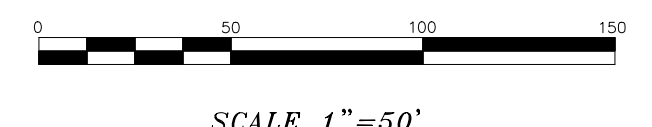
Note: Contractor shall not cross Brushy Creek with equipment before either:
 A. Installing a temporary stream crossing per Roadway Standard 1645.01 (See detail this sheet)
 B. Installing the 60" RCP-III pipe per the following phasing instructions.

1. Install perimeter erosion control devices as shown on EC-05.
2. Install impervious dikes to restrain stream and begin pump around operations.
3. Dewater worksite as directed by the Engineer.
4. Construct 60" RCP-III pipe.
5. Remove impervious dikes and return flow back to 60" pipe.
6. Complete roadway construction.



11/14/2017

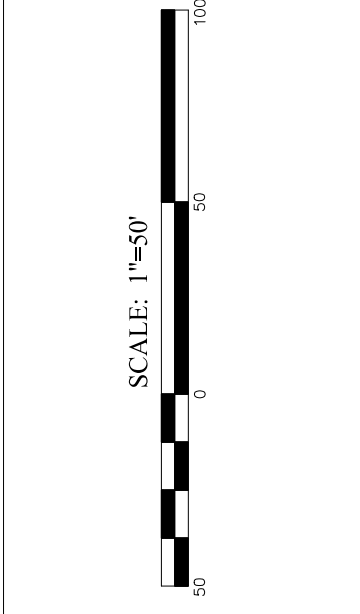
SEE TITLE SHEET FOR LEGEND



TGS ENGINEERS
 804-C N. LAFAYETTE ST.
 SHELBY, NC 28150
 C-0275
 PHONE: 704-476-0003
 FAX: 704-476-0024

Plans Prepared By:
TGS ENGINEERS

NO.	DATE	BY	DESCRIPTION



R-5849	SCALE	1"=50'
JOB NO.	CAD FILE PATH	
AHC PREPARED BY	BCH CHECKED BY	
		September 2017
APPROVED BY		DATE

WASHBURN SWITCH BUSINESS PARK
EROSION CONTROL PLAN

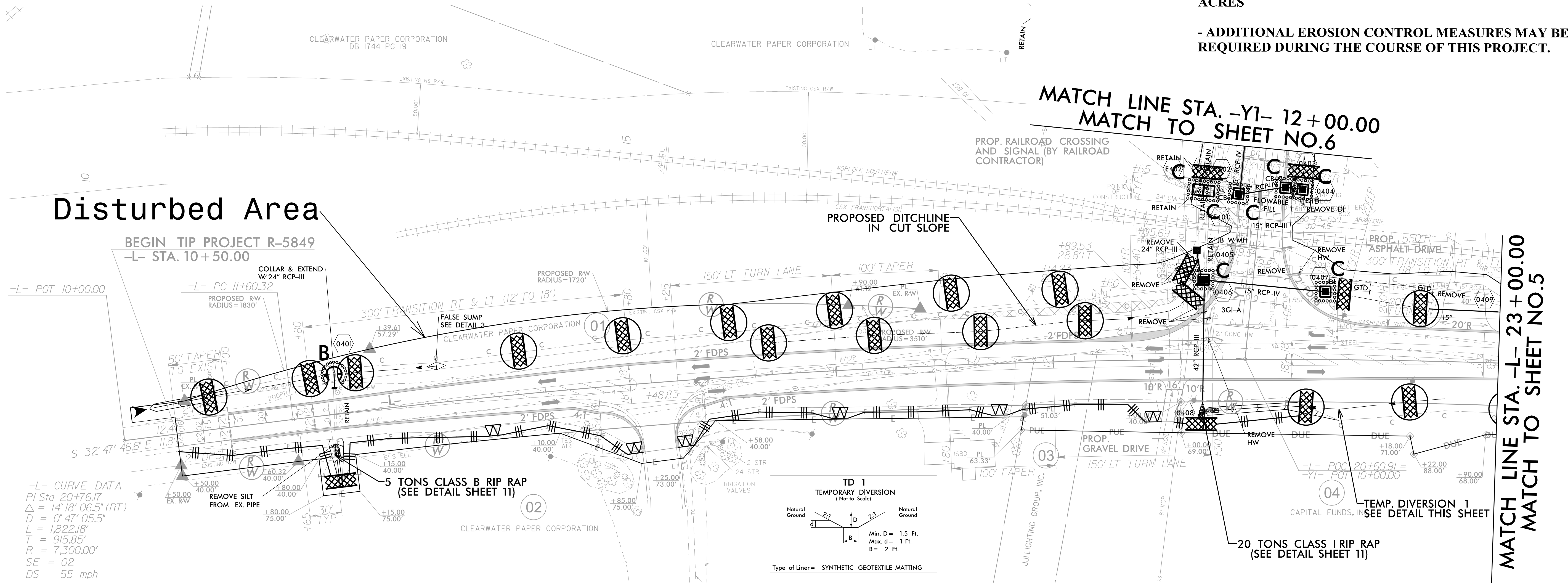
SHEET **6** OF **12**



NOTES:

- FOR MAINTENANCE RESPONSIBILITY CONTACT: BRIAN HOAGLUND (702)289-2459
- PROJECT ADDRESS: 658 WASHBURN SWITCH RD, SHELBY, NC 28150
- INSTALL GEOTEXTILE MATTING ON FILL SLOPES OF ALL BASINS (SEE DETAIL SHEET 3)
- NO LOCATIONS OUTSIDE OF DISTURBED AREA TO BE USED AS CONSTRUCTION ROADS.
- PROJECT IS LOCATED IN BROAD RIVER BASIN
- AREA TO BE SEEDED UPON COMPLETION IS +/- 3.6 ACRES
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING THE COURSE OF THIS PROJECT.

TGS ENGINEERS
 804-C N. LAFAYETTE ST.
 SHELBY, NC 28150
 C-0275
 PHONE: 704-476-0003
 FAX: 704-476-0024



Disturbed Area

BEGIN TIP PROJECT R-5849
 -L- STA. 10+50.00

-L- POT 10+00.00

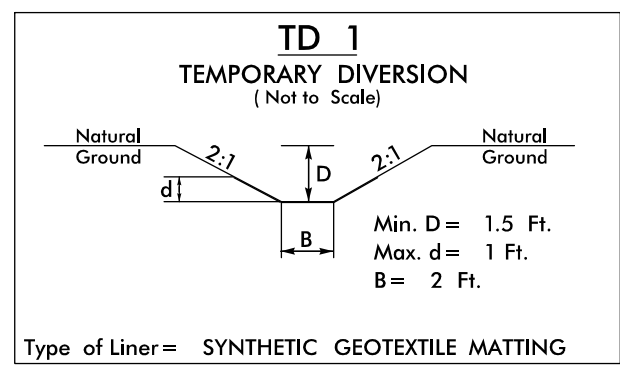
-L- PC 11+60.32
 COLLAR & EXTEND
 W/ 24" RCP-III
 PROPOSED R/W
 RADIUS=1830'

-L- CURVE DATA
 PI Sta 20+76.17
 $\Delta = 14^{\circ} 18' 06.5''$ (RT)
 $D = 0^{\circ} 47' 05.5''$
 $L = 1,822.18'$
 $T = 915.85'$
 $R = 7,300.00'$
 $SE = 02$
 $DS = 55$ mph

5 TONS CLASS B RIP RAP
 (SEE DETAIL SHEET 11)

20 TONS CLASS I RIP RAP
 (SEE DETAIL SHEET 11)

TEMP. DIVERSION 1
 SEE DETAIL THIS SHEET



NO.	DATE	BY	DESCRIPTION

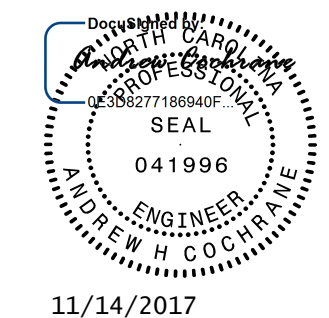


R-5849 JOB NO.	1"=50' SCALE
AHC PREPARED BY	BCH CHECKED BY
	September 2017 DATE

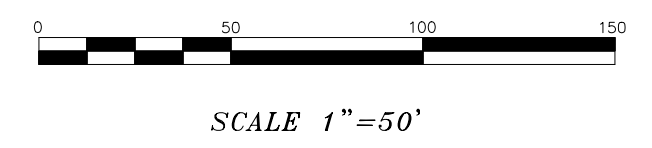
**WASHBURN SWITCH
 BUSINESS PARK**

**EROSION CONTROL
 PLAN**

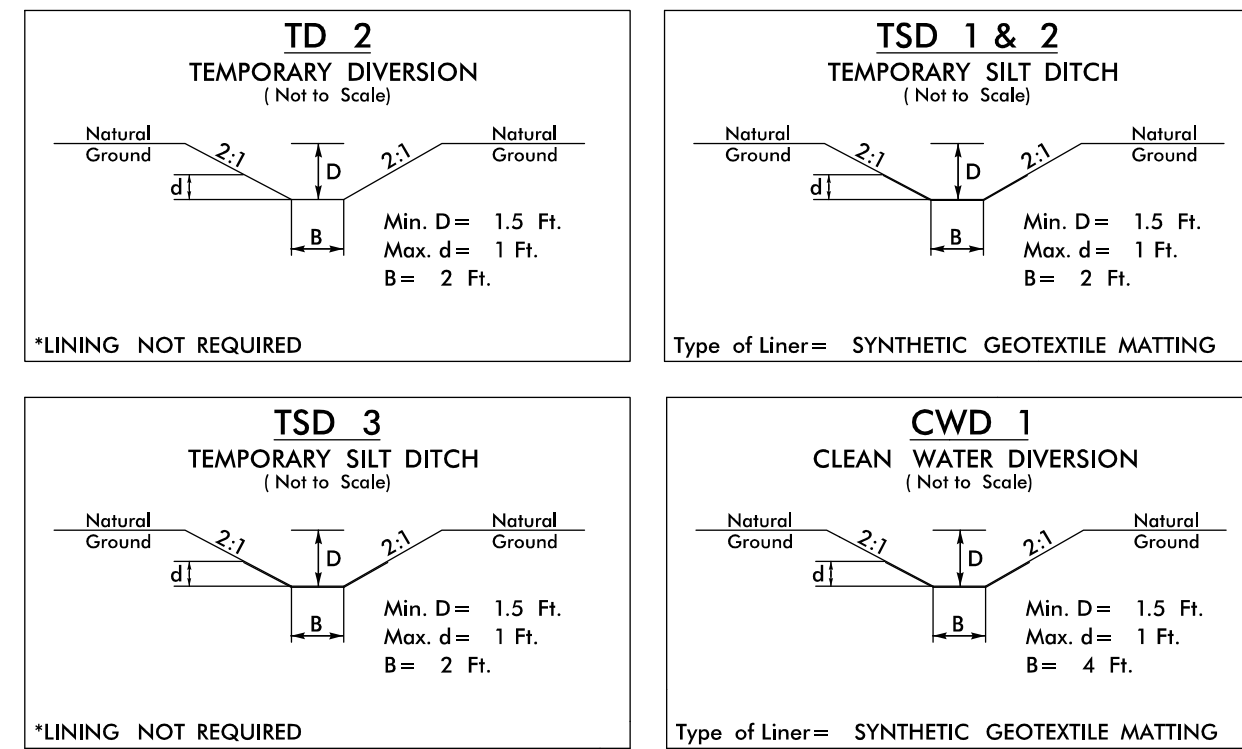
SEE TITLE SHEET FOR LEGEND



11/14/2017



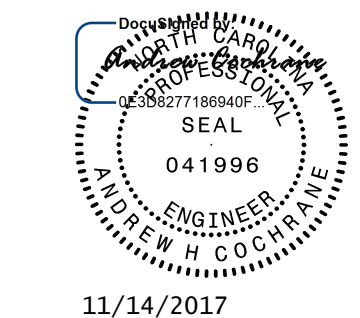
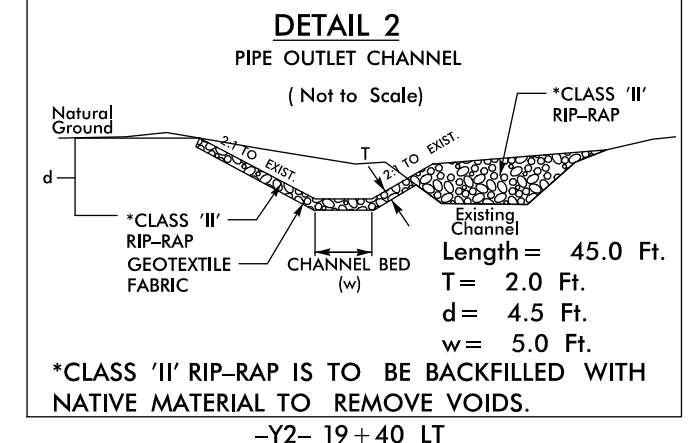
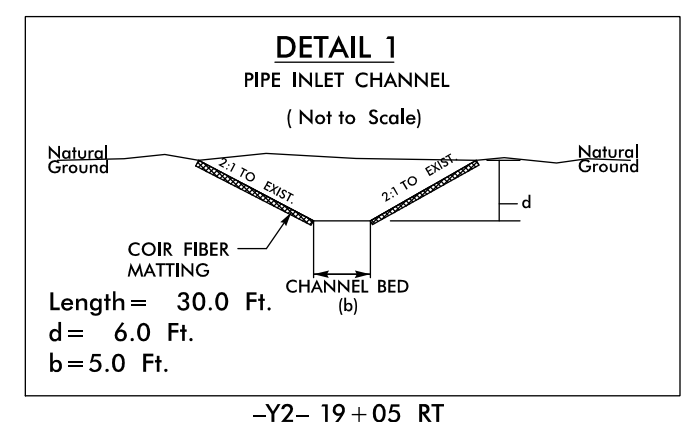
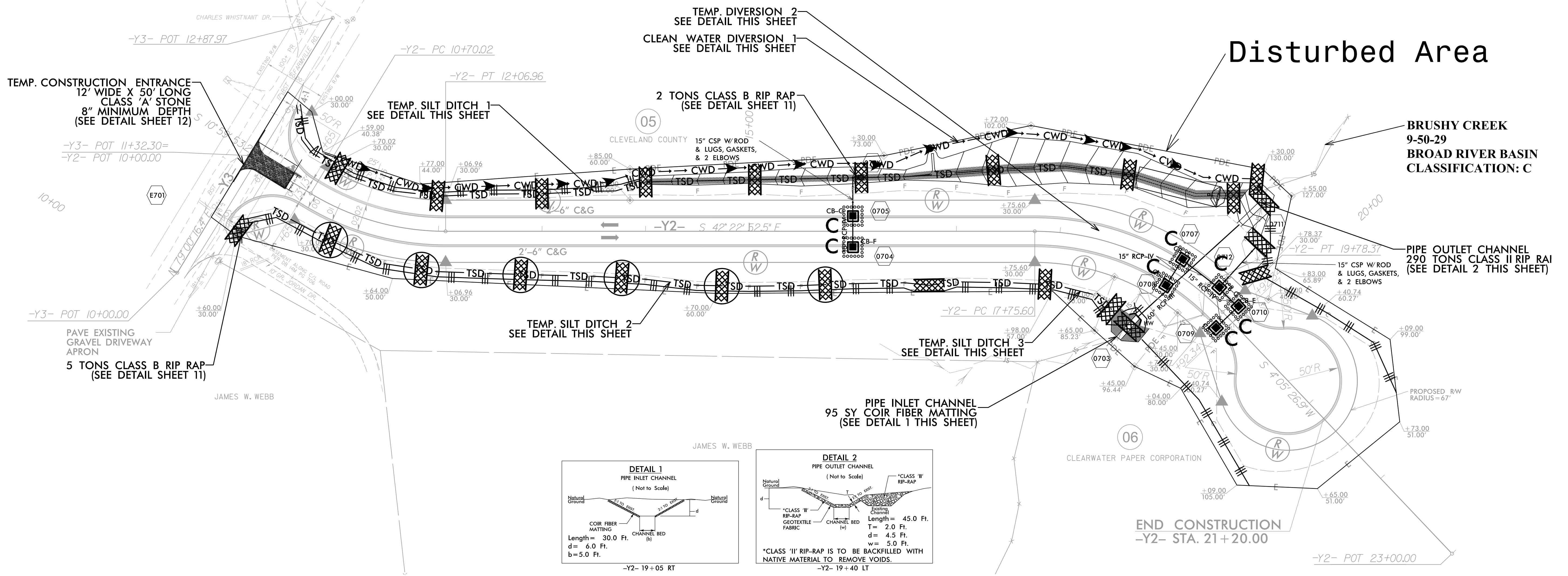
NAD 83/2011



SKIMMER BASIN #1
SEE SHEET 11 FOR DETAILS
DRAINAGE AREA = 1.6 ACRES
DISTURBED AREA = 1.6 ACRES
SURFACE AREA = 1600 SF +/-
SPILLWAY ELEV. = 825'
WEIR LENGTH = 5'
TOP OF EMBANKMENT = 826.5'
BOTTOM OF BASIN ELEV. = 822'
BOTTOM DIMENSIONS = 68' x 8'
TOP DIMENSIONS = 80' x 20'
INSTALL BAFFLES @
20', 40', AND 60' FROM INLET
SEE DETAIL SHEET 12

USE 1.5 INCH SKIMMER
WITH 1.125 INCH ORIFICE

- NOTES:**
- FOR MAINTENANCE RESPONSIBILITY CONTACT:
BRIAN HOAGLUND (702)289-2459
 - PROJECT ADDRESS: 658 WASHBURN SWITCH RD,
SHELBY, NC 28150
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ACRES
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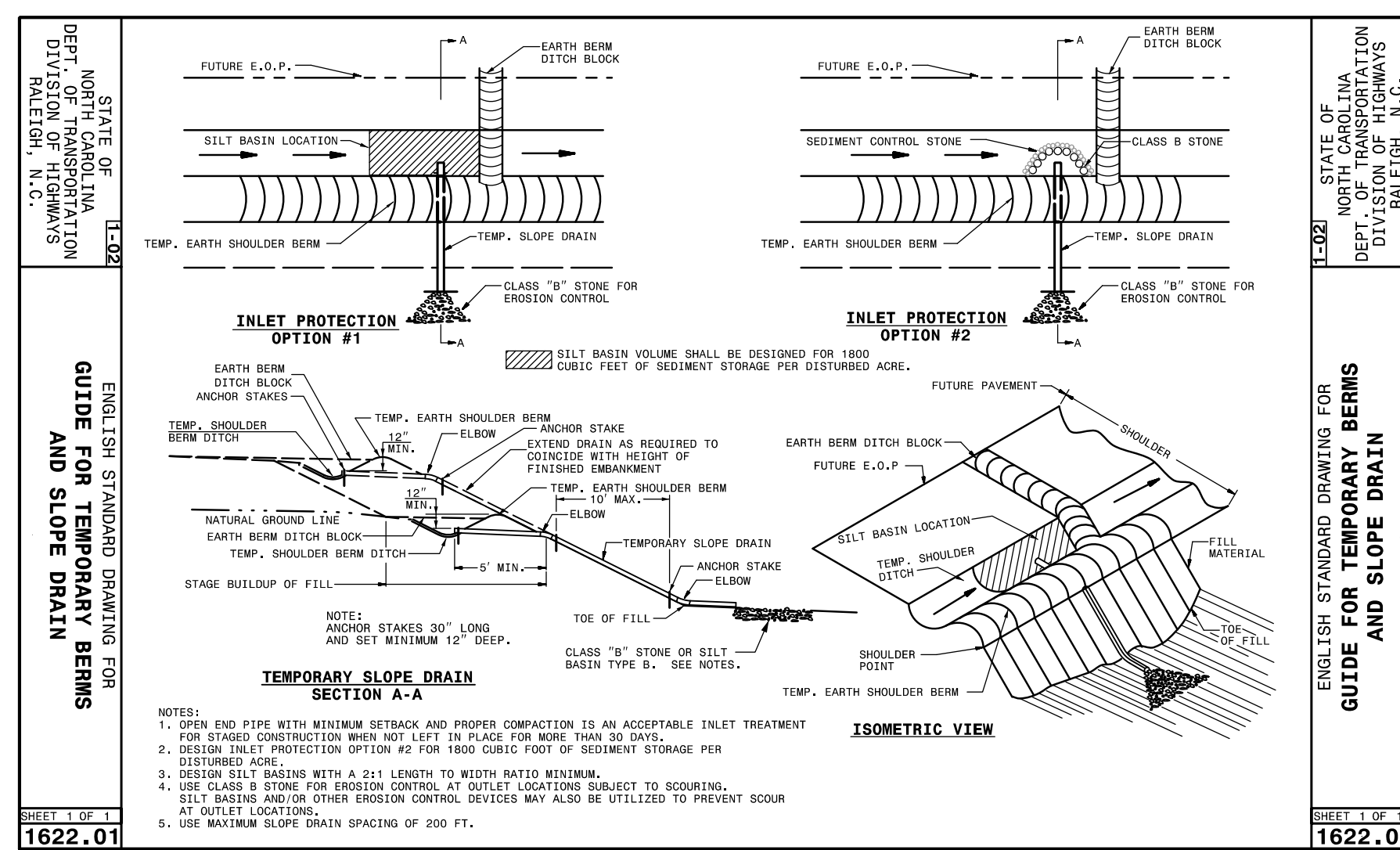
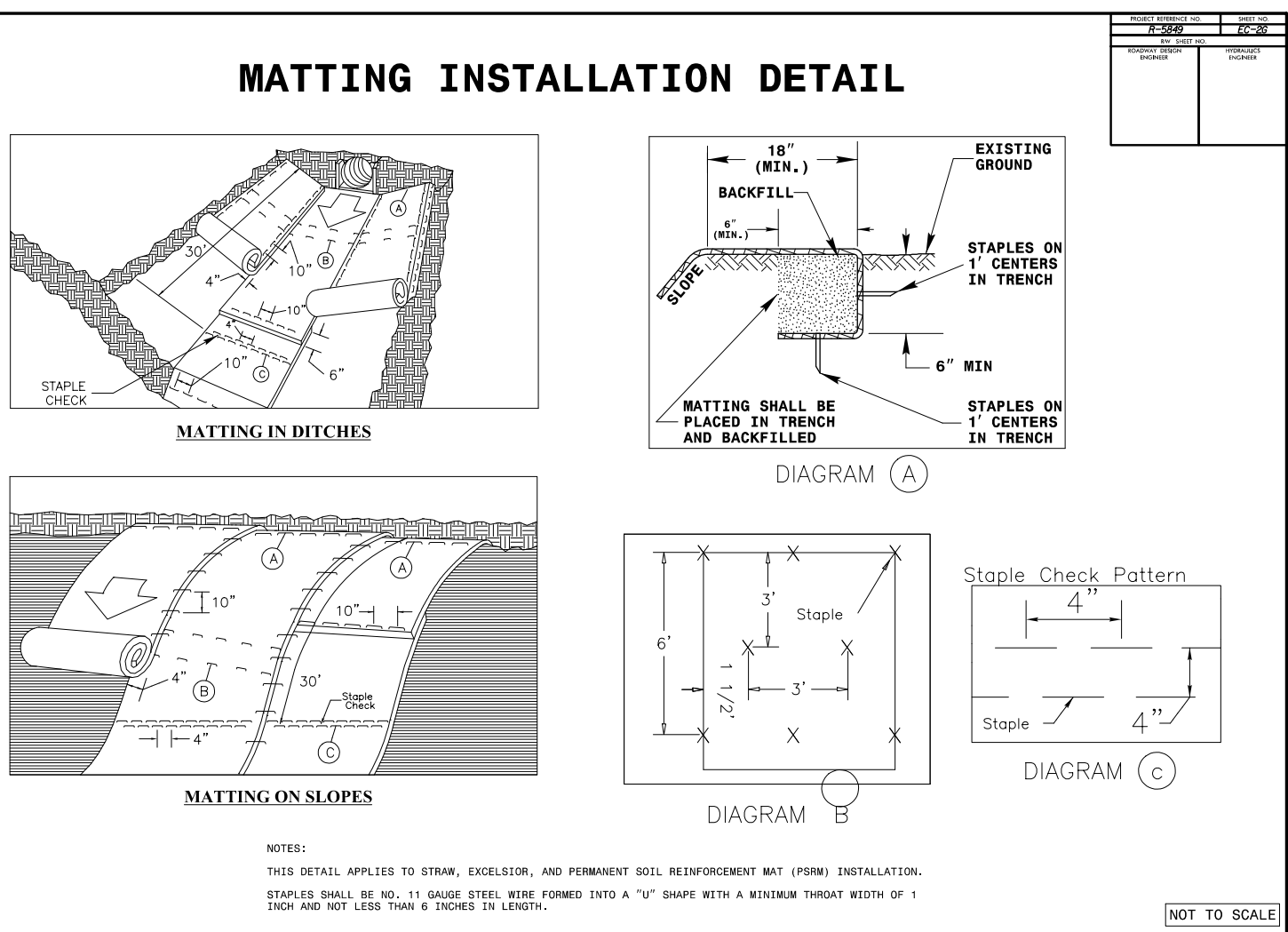
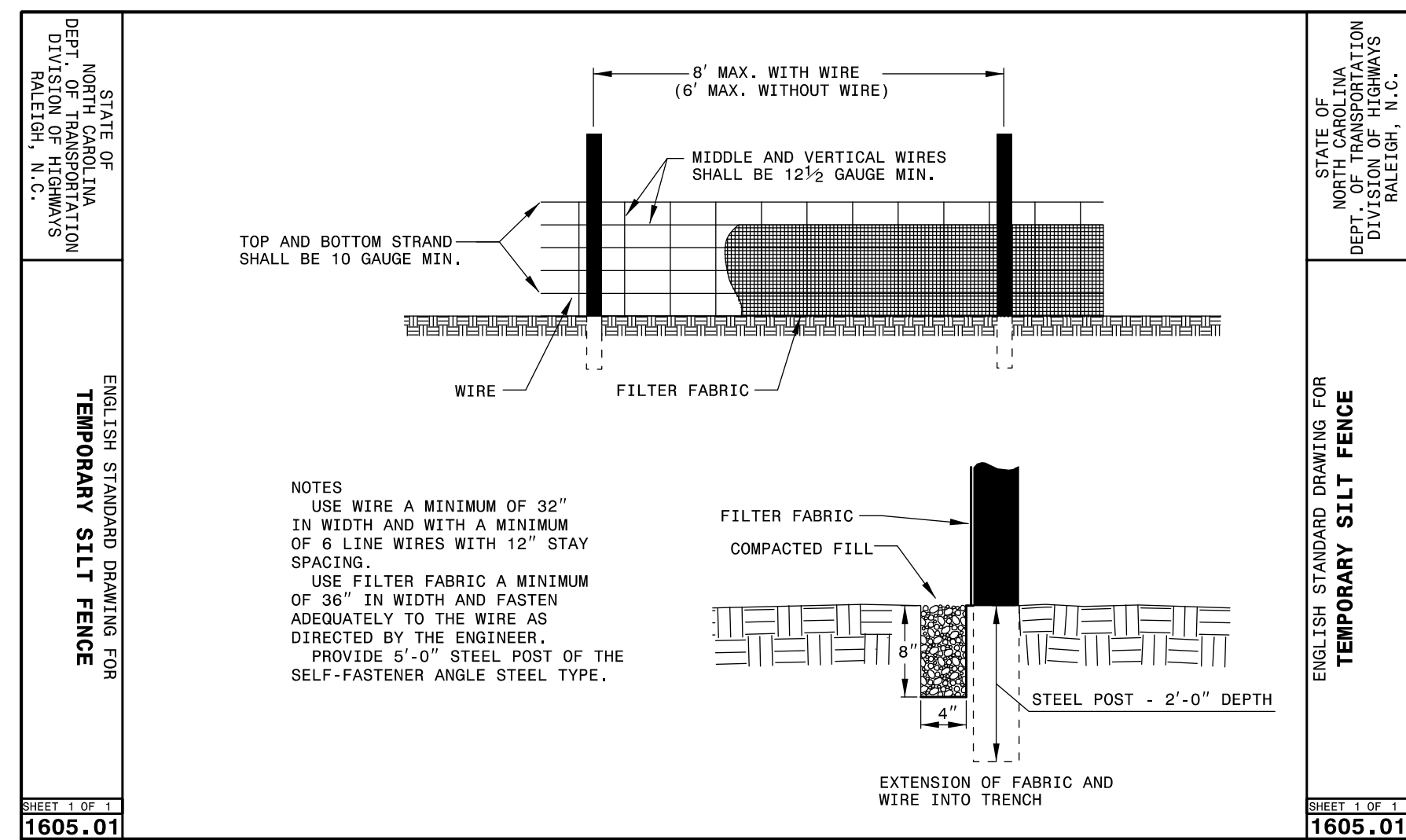
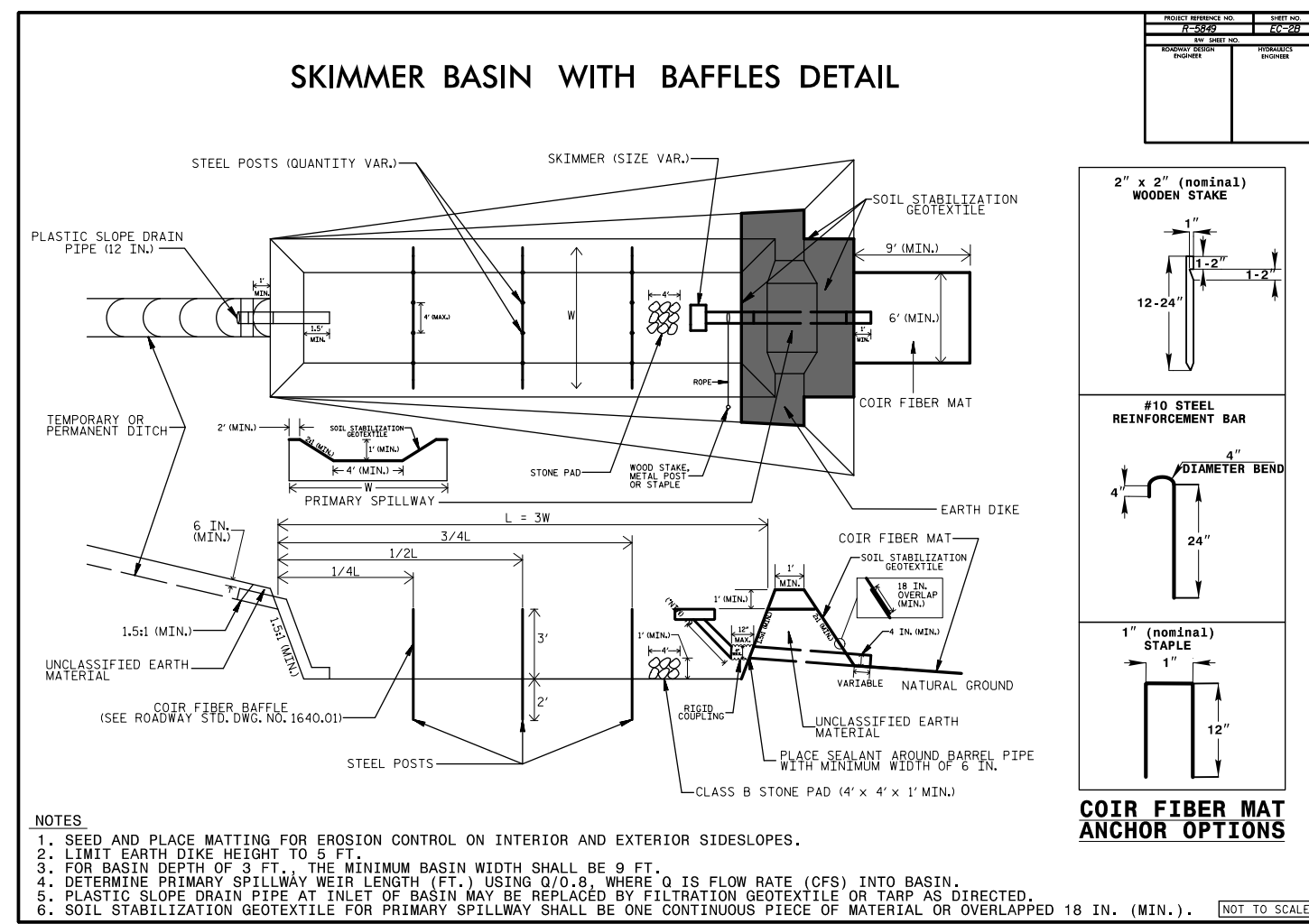
11/14/2017

SEE TITLE SHEET FOR LEGEND



Plans Prepared By:	TGS ENGINEERS
DESCRIPTION	
BY	
DATE	
NO.	
SCALE	1" = 50'
R-5849 JOB NO.	
CAD FILE PATH	
AHC PREPARED BY	BCH
APPROVED BY	September 2017 DATE
WASHBURN SWITCH BUSINESS PARK	EROSION CONTROL PLAN
SHEET 10	OF 12

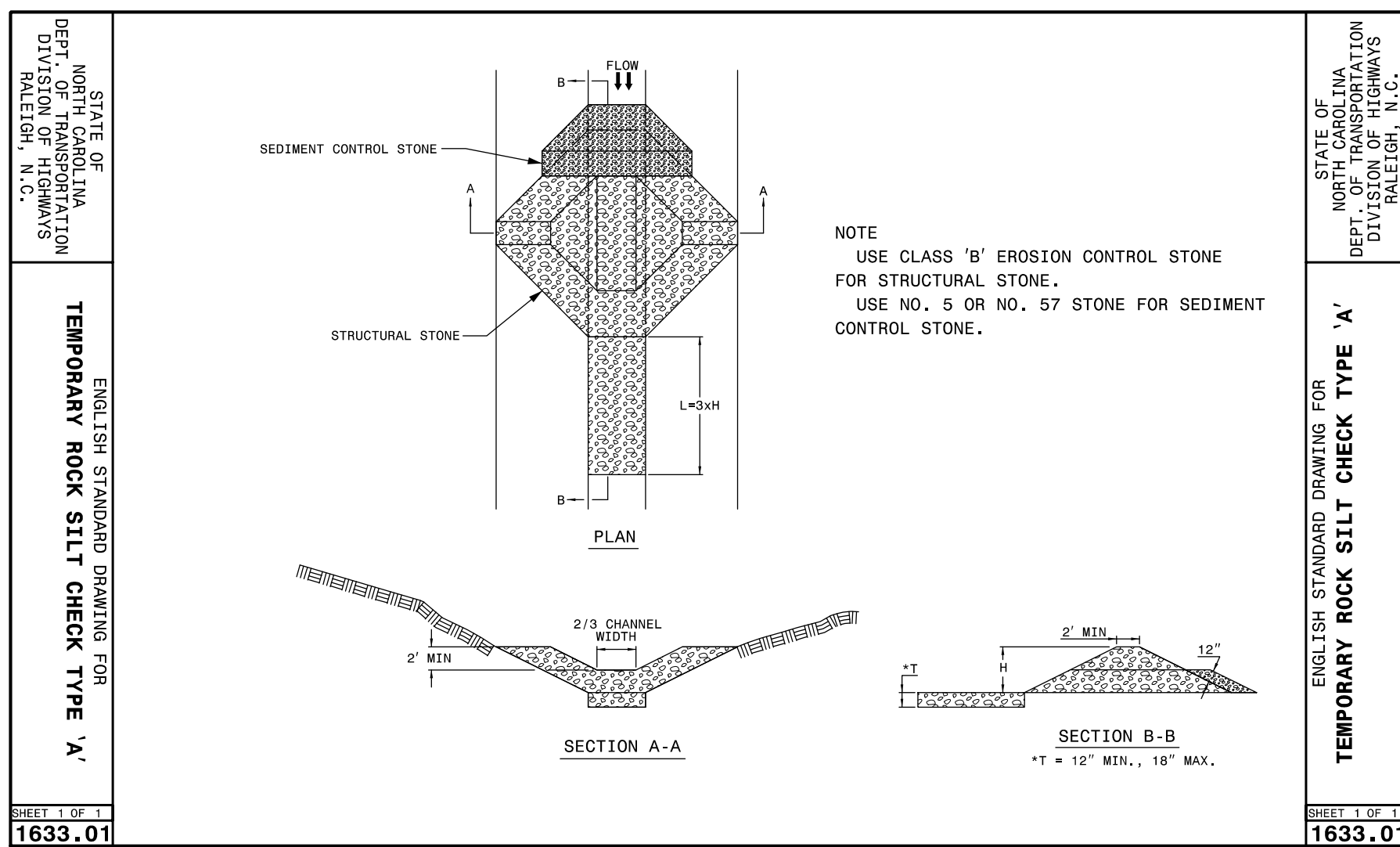
TGS ENGINEERS
804-C N. LAFAYETTE ST.
SHELBY, NC 28150
C-0275
PHONE: 704-476-0003
FAX: 704-476-0024



SOIL STABILIZATION TIMEFRAME

NPDES Stormwater Discharge Permit for Construction Activities (NCS001) | NCDENR/Division of Energy, Mineral and Land Resources

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HOW) 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 HOW Zones.

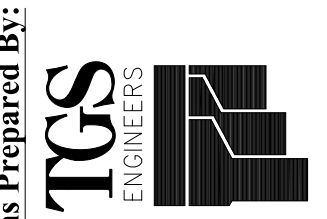


GUIDE FOR RIP RAP AT PIPE OUTLETS

D	OUTLET W/DITCH		OUTLET W/O DITCH	
	CLASS I RIP RAP	CLASS II RIP RAP	CLASS I RIP RAP	CLASS II RIP RAP
12"	2	5	2	5
15"	2	7	3	7
18"	3	10	4	10
24"	5	14	7	15
30"	8	21	11	22
36"	11	28	15	30
42"	15	37	20	39
48"	-	49	26	50
54"	-	63	33	63
60"	-	81	43	81
72"	-	102	54	102

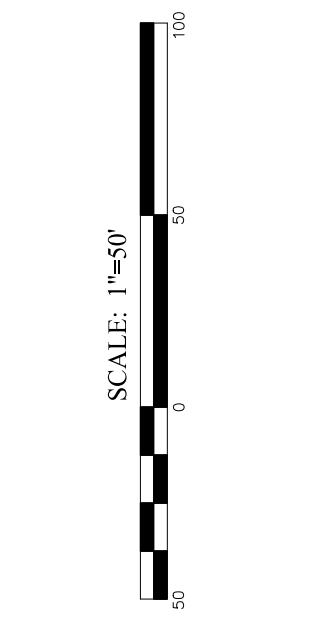
NOTE:
 FOR CALCULATION PURPOSES:
 CLASS I RIP RAP = 100 LBS./FT.³
 CLASS II RIP RAP = 100 LBS./FT.³

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Plans Prepared By:

NO.	DATE	BY	DESCRIPTION



R-5849	1"=50'	SCALE
WASHBURN SWITCH BUSINESS PARK	CAD FILE PATH	
AHC	BCH	CHECKED BY
		DATE

WASHBURN SWITCH BUSINESS PARK
EROSION CONTROL PLAN

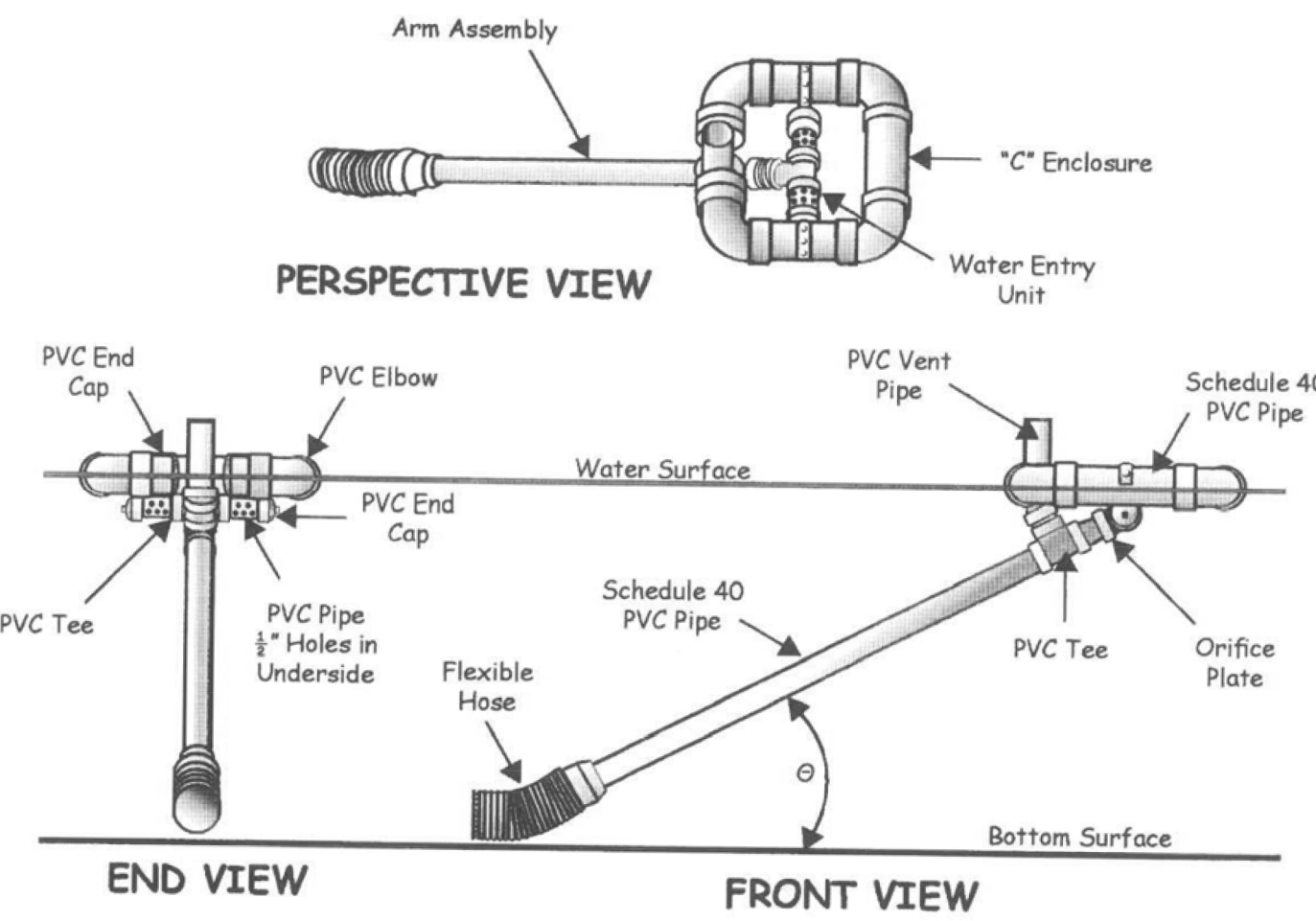
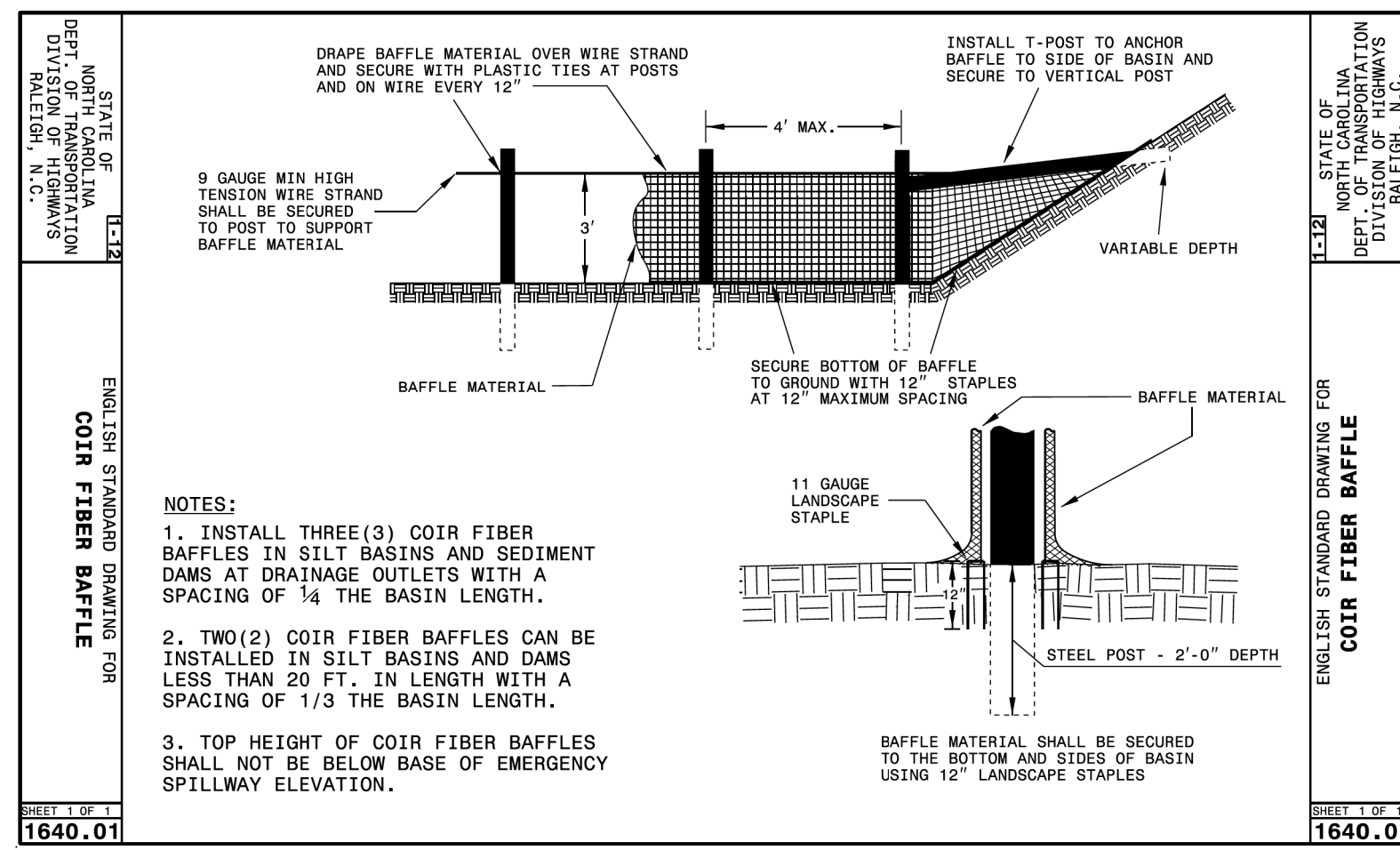
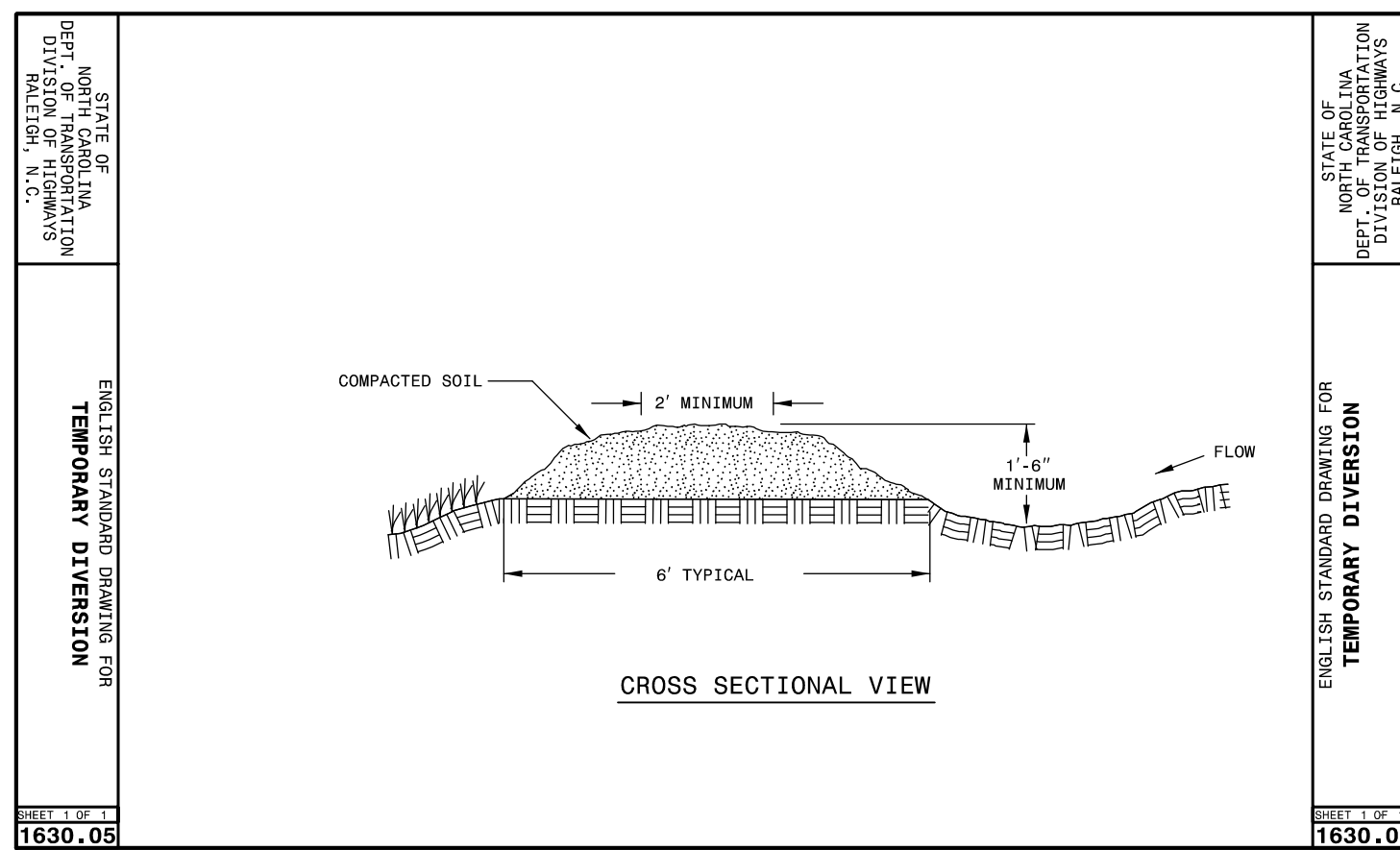
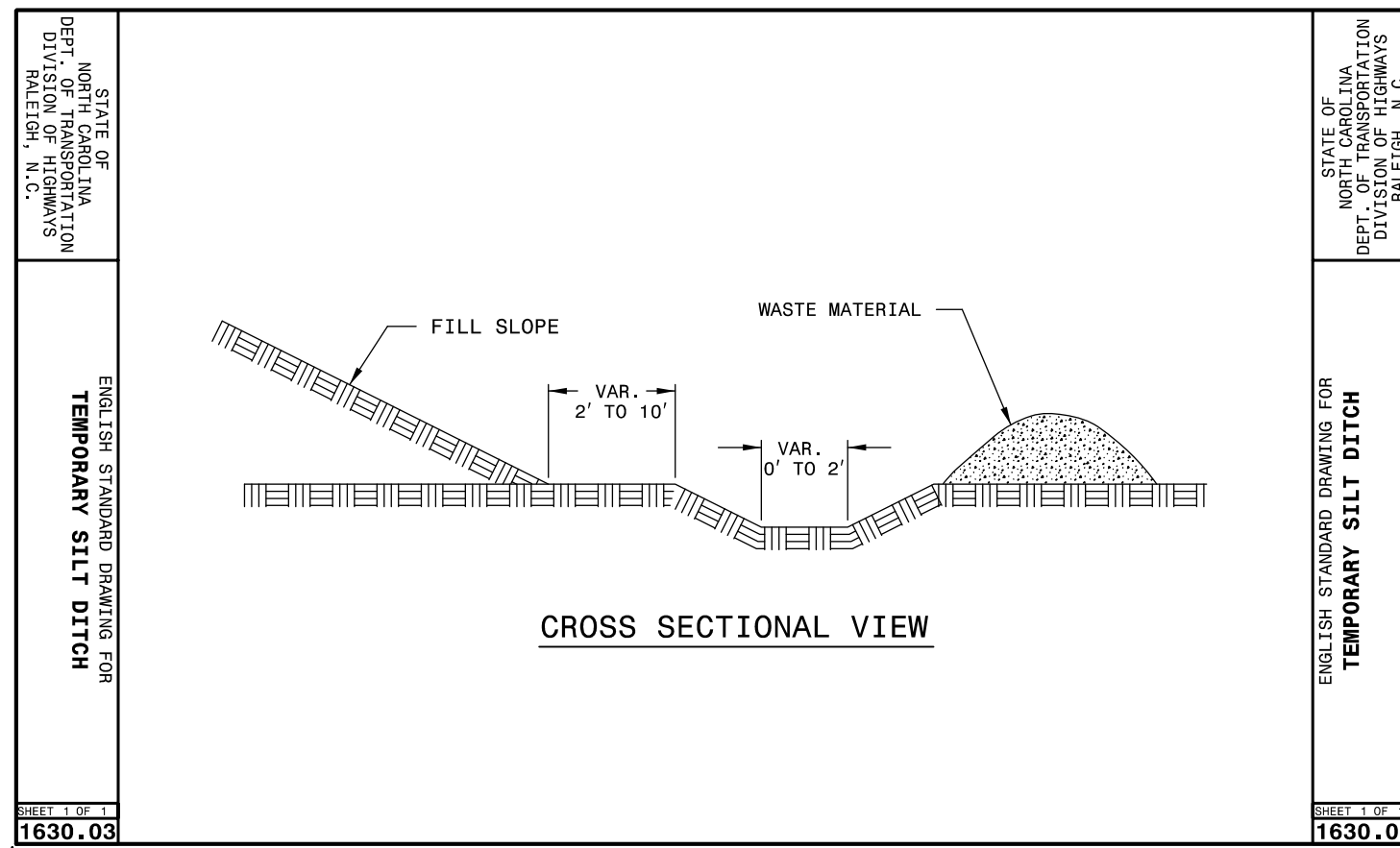
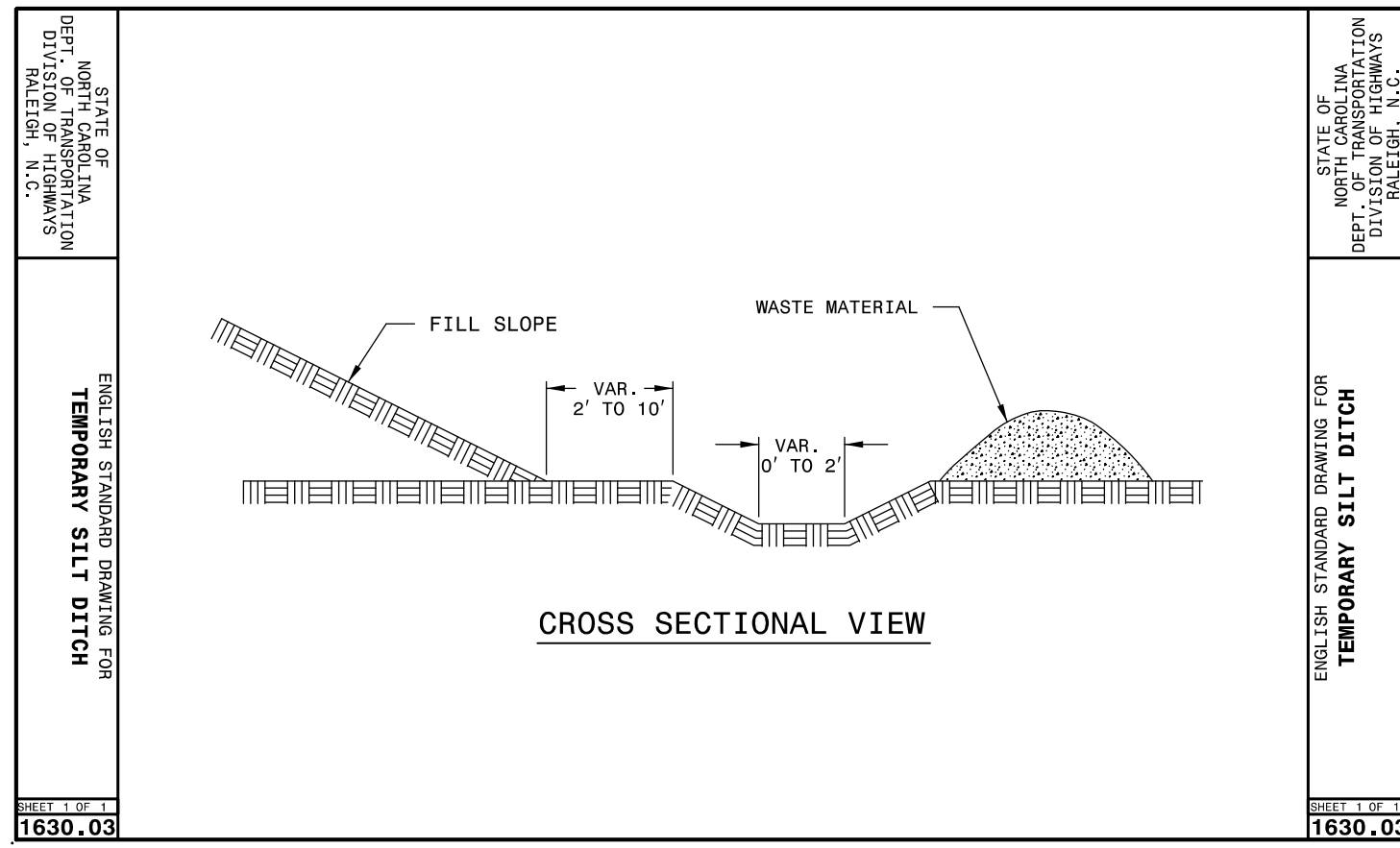
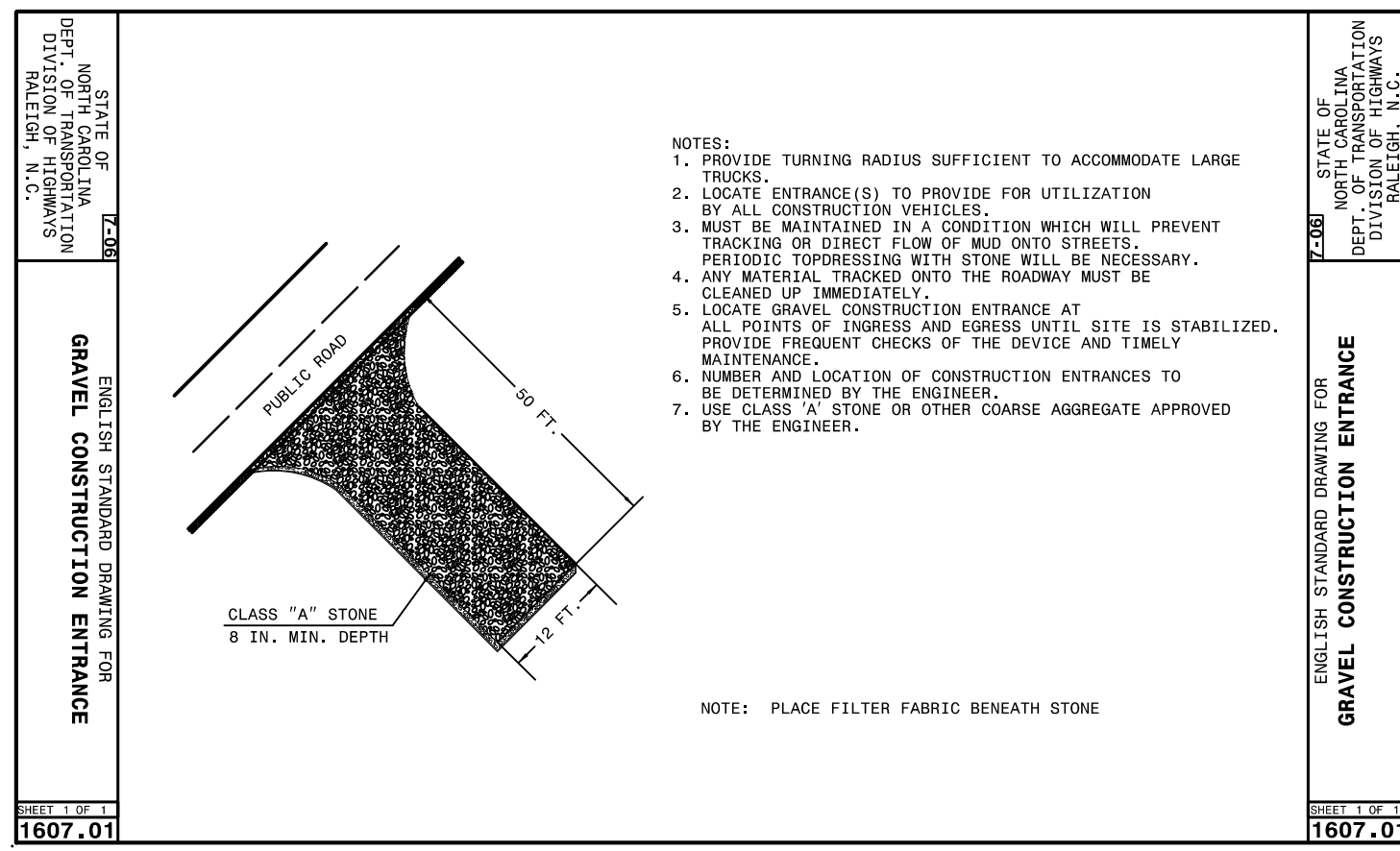
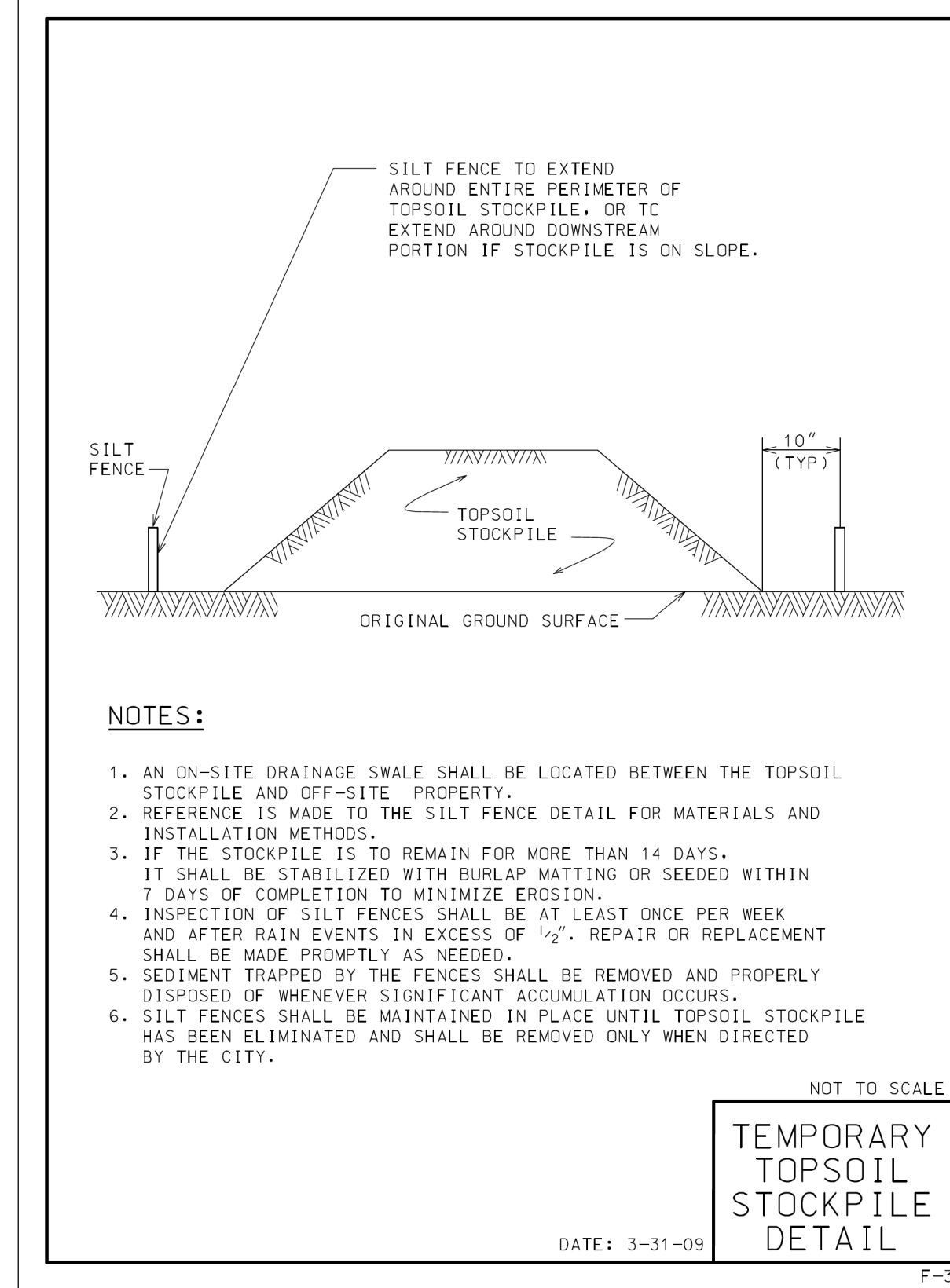
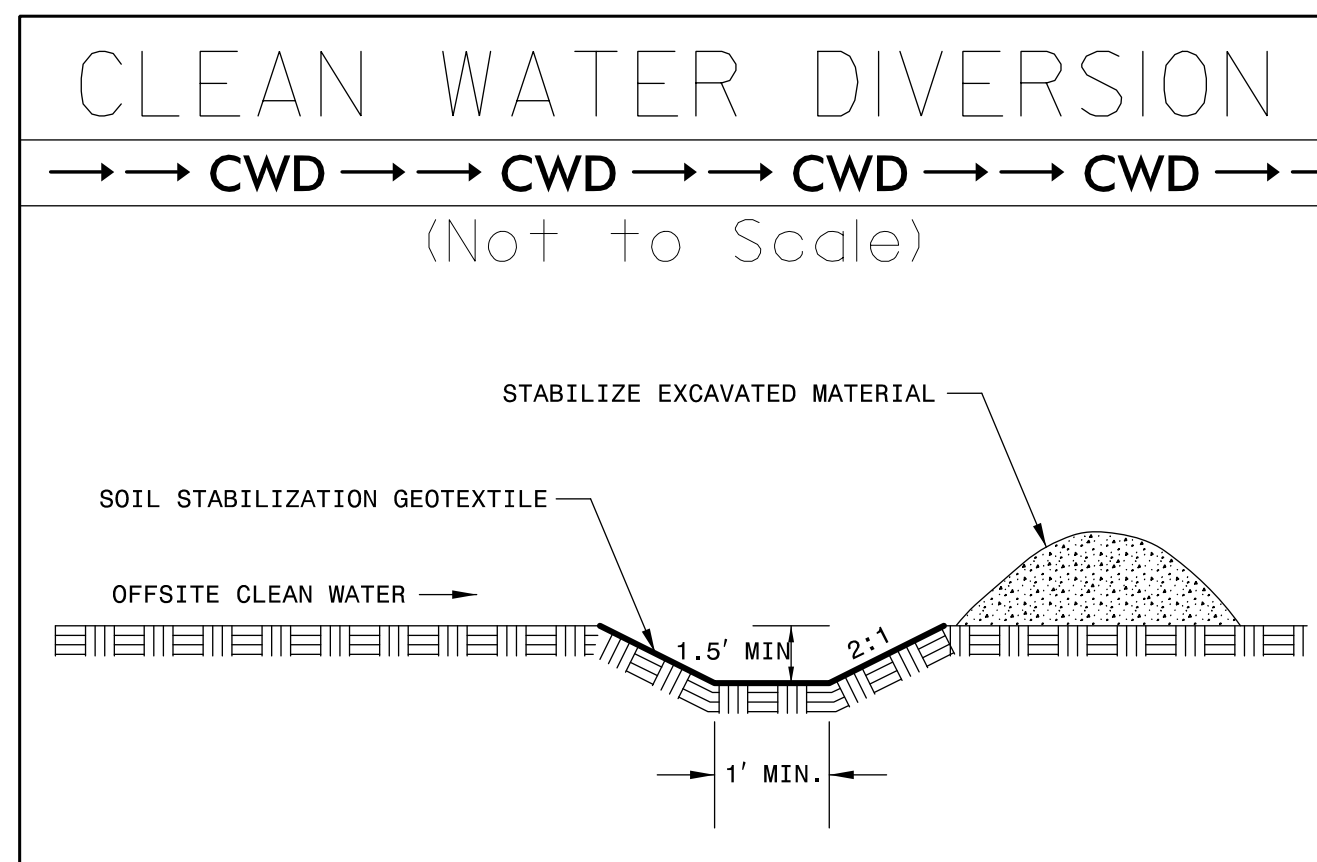


Figure 6.64a Schematic of a skimmer, from Pennsylvania Erosion and Sediment Pollution Control Manual, March, 2000.



SEEDING NOTES

SCALE = NTS

- AREAS TO BE SEEDDED SHALL BE DEFINED AS ALL AREAS WITHIN GRADING LIMITS THAT ARE NOT OCCUPIED BY PAVING, CRUSHED STONE SURFACING, OR STRUCTURES. SEEDING SHALL INCLUDE FINAL SHAPING, LIMING, FERTILIZATION, AND SEEDING.
- THE CONTRACTOR SHALL DELIVER A SATISFACTORY STAND OF PERENNIAL GRASS. THIS SATISFACTORY STAND SHALL PROVIDE FULL COVER OVER AREAS TO BE SEEDDED. THE STAND SHALL BE ALIVE AND GROWING, WITH NO BARE SPOTS LARGER THAN 3/4 SQUARE YARD WITHIN A RADIUS OF TEN FEET.
- PERMANENT SEEDING MIXTURE (GENTLE SLOPES, AVERAGE SOILS, LOW MAINTENANCE)

SEEDING MIXTURE SPECIES	RATE (#/acre)
TALL FESCUE	80
KENTUCKY BLUEGRASS	10
KOREAN LESPEDEZA	40

PERMANENT SEEDING MIXTURE (STEEP SLOPES, LOW MAINTENANCE)
 COCONUT MATRIX OR EQUAL

- FERTILIZER SHALL BE 10-10-10 COMPLETE FERTILIZER OF UNIFORM COMPOSITION. LIME SHALL BE AGRICULTURAL GRADE GROUND LIMESTONE WITH NOT LESS THAN 88 F CALCIUM CARBONATE CONTENT. LIME SHALL BE SPREAD AT A RATE OF 2000 POUNDS PER ACRE. FERTILIZER SHALL BE SPREAD UNIFORMLY AT A RATE OF 1000 POUNDS PER ACRE, AND SHALL BE INCORPORATED INTO SOIL TO A DEPTH OF AT LEAST 2 INCHES BY DISKING HARROWING. FERTILIZER MAY BE INCORPORATED AS PART OF TILLAGE OPERATION.
- IMMEDIATELY AFTER FERTILIZING AND SEEDING HAVE BEEN COMPLETED, ENTIRE AREA SHALL BE COMPACTED BY MEANS OF CULTIPACKER, ROLLER, OR APPROVED EQUIPMENT.
- PARTICULAR ATTENTION SHALL BE GIVEN TO EMBANKMENTS AND SWALES TO PROVIDE PROTECTION FROM EROSION AND PROVIDE MOWABLE SLOPES AND SWALES.
- IF NECESSARY, TOPS AND TOES OF EMBANKMENTS AND SWALES SHALL BE TREATED WITH A CUTBACK ASPHALT AND STRAW EMULSION OR HYDROSEEDS.
- GROUND COVER SHALL BE ESTABLISHED ON EXPOSED SLOPES WITHIN 15 WORKING DAYS BUT NO MORE THAN 21 CALENDER DAYS OF COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER SHALL BE ESTABLISHED ON ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDER DAYS FOLLOWING COMPLETION OF CONSTRUCTION.
- TEMPORARY SEEDING SCHEDULE SHALL BE USED WHEN NECESSARY TO MEET THE TIME LIMITATION ON GROUND COVER.

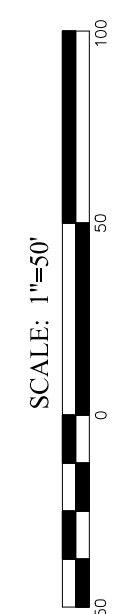
TEMP. SEEDING NOTES

- TEMPORARY SEEDING SCHEDULE**
 SUMMER (MAY 1 - AUG. 15)
 SOIL AMENDMENTS : APPLY 2000 #/acre GROUND AGRICULTURAL LIMESTONE AND 750 #/acre 10-10-10 FERTILIZER
 - SEED WITH GERMAN MILLET AT RATE OF 40 #/acre OR SMALL-STEMMED SUNDANGRASS AT RATE OF 50 #/acre
 - APPLY 4000 #/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL.
- TEMPORARY SEEDING SCHEDULE**
 FALL (AUG. 15 - DEC. 30)
 SOIL AMENDMENTS : APPLY 2000 #/acre GROUND AGRICULTURAL LIMESTONE AND 1000 #/acre 10-10-10 FERTILIZER
 - SEED WITH RYE (GRAIN) AT RATE OF 120 #/acre.
 - APPLY 4000 #/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL.

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NO.	DATE	BY	DESCRIPTION



R-5849 JOB NO.	1\"/>
AHC PREPARED BY	BCH CHECKED BY
	September 2017 DATE

WASHBURN SWITCH BUSINESS PARK
EROSION CONTROL PLAN