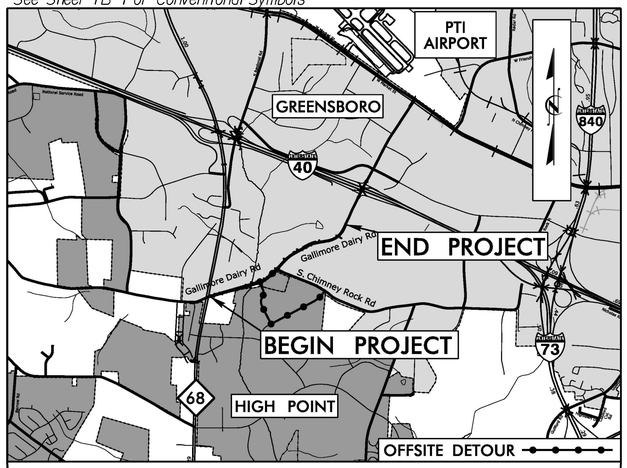
09/08/99

TIP PROJECT: U-4015A

CONTRACT: C204821

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

GUILFORD COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4015A	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

LOCATION: *SR 1556 (GALLIMORE DAIRY RD.) FROM NC 68 – EASTCHESTER DR (LYNNWOOD SMITH EXPY.) TO SOUTH OF AIRPARK RD. IN GREENSBORO*

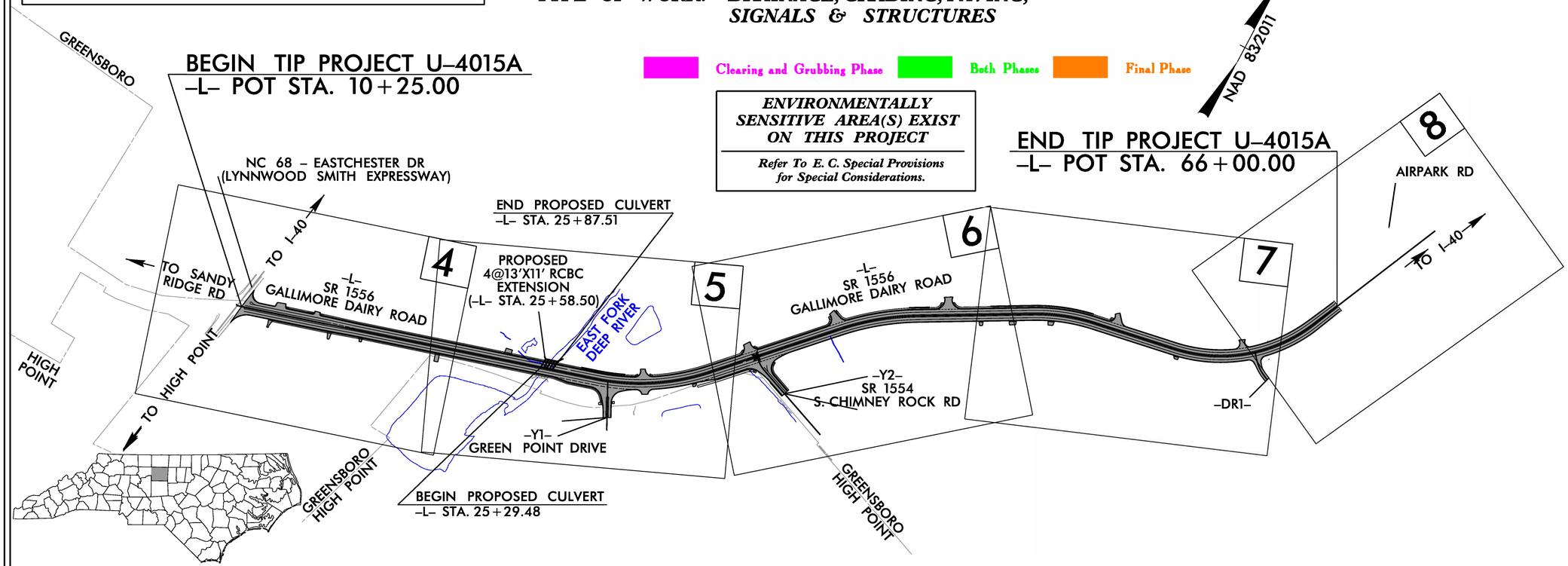
TYPE OF WORK: *DRAINAGE, GRADING, PAVING, SIGNALS & STRUCTURES*

Clearing and Grubbing Phase | Both Phases | Final Phase

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

NAD 83/2011



GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 10 5 0 10 20

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Reviewed In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2024 STANDARD SPECIFICATIONS

LENGTH ROADWAY TIP PROJECT U-4015A.....1.045 MILES
LENGTH STRUCTURE TIP PROJECT U-4015A.....0.011 MILES
TOTAL LENGTH TIP PROJECT U-4015A.....1.056 MILES

RK&K

PLANS PREPARED BY:

RUMMEL, KLEPPER & KAHL, LLP
8601 SIX FORKS ROAD, FORUM 1, SUITE 700
RALEIGH, NORTH CAROLINA 27615-3960
NC LICENSE NO. F-0112

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SETH C. JONES, EI
EROSION CONTROL DESIGN ENGINEER
LEVEL III CERTIFICATION NO. 4183

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.

9/3/2024
R:\Hydraulics\CADD\PSH\EC\u4015a_hyd_EC_tsh.dgn
choffman

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-01A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

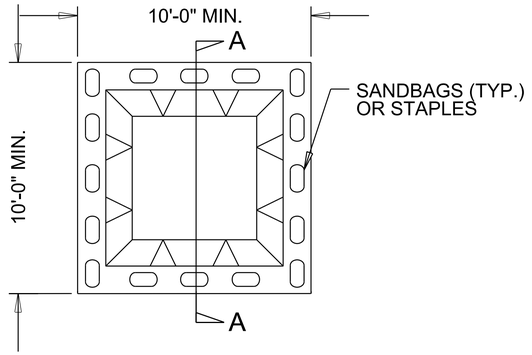
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

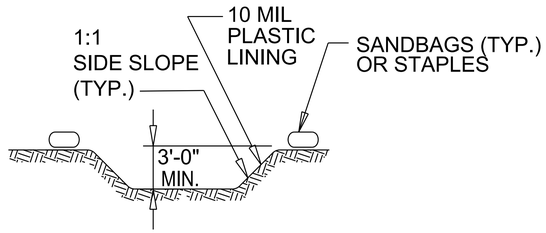
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	FFF
	Silt Fence Coir Fiber Wattle Break	FFF
1636.03	Excelsior Wattle Barrier	EW EW EW
1636.03	Coir Fiber Wattle Barrier	CFW CFW CFW

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-02
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

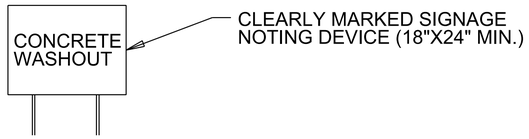
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



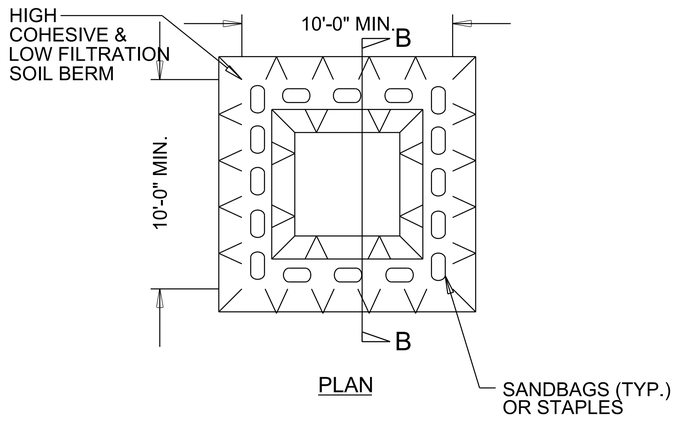
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

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.

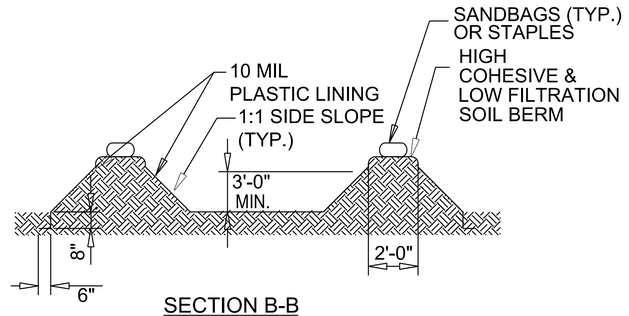
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

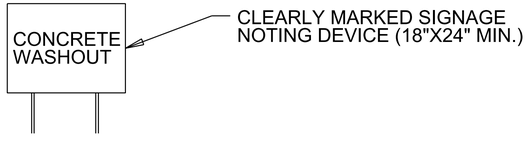
NOT TO SCALE



PLAN



SECTION B-B



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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-03
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

EROSION CONTROL EXCELSIOR MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	29+45	30+00	RT	40
5	-L-	31+00	32+50	RT	145
				SUBTOTAL	185
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					16440
				TOTAL	16625
				SAY	17000

EROSION CONTROL EXCELSIOR MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-03A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 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.	SHEET NO.
U-4015A	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 832011

-L- STA. 20+00.00
MATCHLINE
SEE SHEET 5

BEGIN TIP PROJECT U-4015A
-L- POT STA. 10+25.00

-L- POT Sta. 10+00.00

TIE TO EXISTING 2'-6" CURB AND GUTTER

TOE PROTECTION SEE DETAIL D

TRANSITION PROP. 2'-6" C&G TO EXIST 1'-6" C&G

DO NOT DISTURB LIGHT

TIE TO EXISTING 2'-6" CURB AND GUTTER

+42.00 6.00' RT

+42.00

+76.15 32.75' RT

+86.33 BEGIN SIDEWALK

+40.09 BEGIN SIDEWALK

+50.00

+50.00

150' TAPER

150' TAPER

PROP. 4' MONOLITHIC CONCRETE ISLAND

PROP. 5' SIDEWALK

PROP. 5' SIDEWALK

408' LEFT TURN LANE

REMOVE APPROX. 12' OF EXISTING 15" HDPE

SEAL ABANDONED WELL

N 733455.2

15+00

20+00

2'-6" C & G

6" CONC

42.5' (TYP)

R=45'

R=100'

EX0403

0402

0405

0410

0411

0413

0415

0417

0407

0408

TB2CB-NSF

CB

DI

15" RCP-IV

REMOVE

RETAIN

PDE

PUE

SBA TOWERS X LLC
DB 8255 PG 2808
PB 150 PG 20

FRANCES P. TICKLE HEIRS
DB 1788 PG 346

FRANCES P. TICKLE HEIRS
DB 2066 PG 221

SBA TOWERS X LLC
DB 8255 PG 2808
PB 150 PG 20

WILLIAMS PROPERTIES II LP
DB 4947 PG 1882
DB 5375 PG 2096

WAFFLE HOUSE, INC.
DB 8080 PG 1231
PB 160 PG 126
PB 153 PG 119

JNS PROPERTIES LLC
DB 8645 PG 1684
PB 155 PG 117

CITY OF HIGH POINT
DB 3781 PG 1064
PB 96 PG 142-145

CITY OF HIGH POINT
NO REFERENCE FOUND

CITY OF HIGH POINT
DB 4241
PG 1891

30' SANITARY SEWER EASEMENT
PB 160 PG 126

25' NON-EXCLUSIVE ACCESS EASEMENT FOR BENEFIT OF LOTS 2 & NEW LOT 3
PB 160 PG 126

TO PIEDMONT TRIAD INTERNATIONAL AIRPORT

GREENSBORO

HIGH POINT

TO HIGH POINT

SR 1556 GALLIMORE DAIRY RD

EXISTING R/W

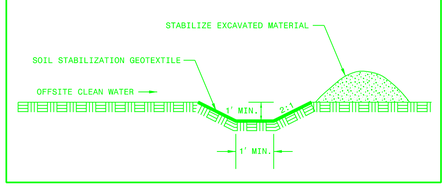
WOODS

BRUSH

WATER QUALITY CONSERVATION EASEMENT

CLEAN WATER DIVERSION

(Not to Scale)



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

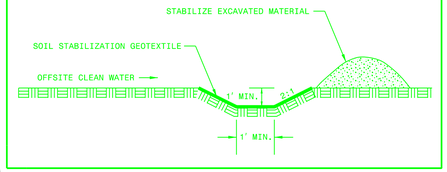
RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEAN WATER DIVERSION

(Not to Scale)



92 x 31 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 5.2

67 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 5.1

MATCHLINE -L- STA. 20+00.00
SEE SHEET 4

MATCHLINE -L- STA. 34+00.00
SEE SHEET 6

NAD 83/2011

BEG. PROP. RETAINING WALL #1
W/ HANDRAIL -L- STA. 27+25.00

PROPOSED 4@13'X11' RCBC
EXTENSION -L- STA. 25+58.50

END PROP. RETAINING WALL #1
W/ HANDRAIL -L- STA. 29+50.00

-L- POC Sta. 28+66.38
-Y1- POT Sta. 10+00.00

-L- PT Sta. 33+77.19

BEGIN PROPOSED CULVERT
-L- STA. 25+29.48

END PROPOSED CULVERT
-L- STA. 25+87.51

-L- PC Sta. 28+03.88

TIE TO EXIST.
-Y1- STA. 11+80.00

END CONSTRUCTION
-Y1- STA. 11+85.00

-Y1- POT Sta. 12+43.85

BEGIN REALIGNMENT OF
9' BICENTENNIAL GREENWAY
TIE TO EXISTING

SW TIES INTO EXISTING
BICENTENNIAL GREENWAY

TIE TO
EXIST C&G

APPROXIMATE LOCATION
PROVIDED BY OTHERS

TEMPORARY EASEMENT
FOR EROSION CONTROL

STORMWATER
RETENTION POND

PROP. 5' SIDEWALK

PROP. 2'-6" C & G

6 — JNS PROPERTIES LLC
DB 8645 PG 1684
PB 155 PG 117

9 — NTS PROPERTIES LLC
DB 8017 PG 726

10 — CITY OF GREENSBORO
DB 7993 PG 502
PB 155 PG 117

10 — CITY OF GREENSBORO
DB 8123 PG 2429
PB 193 PG 34
PB 144 PG 106

12A — WTA HOLDINGS LLC
DB 7880 PG 51
PB 193 PG 34
PB 144 PG 106
PB 209 PG 150

7 — CITY OF HIGH POINT
DB 3781 PG 1064
PB 96 PG 142-145

11 — BCORE GREEN POINT BP, LLC
DB 8437 PG 2937
PB 92 PG 78

13 — BCORE GREEN POINT BP, LLC
DB 8437 PG 2943
PB 92 PG 78

14 — KOURY NS2 LLC,
DB 8601 PG 2417
PB 205 PG 94

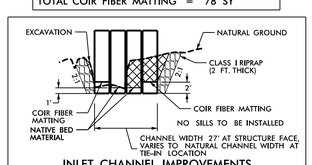
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

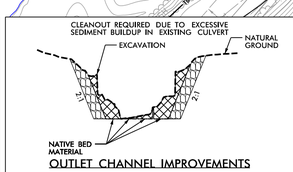
PERMANENT CHANNEL EXCAVATION

TOTAL CHANNEL EXCAVATION = 260 CY
TOTAL CL I RIP RAP = 190 TONS
TOTAL GEOTEXTILE FAB. = 200 SY
TOTAL COIR FIBER MATTING = 78 SY



INLET CHANNEL IMPROVEMENTS

LOOKING UPSTREAM (NTS)
LENGTH = 75', SLOPE = 0.67%



OUTLET CHANNEL IMPROVEMENTS

LOOKING DOWNSTREAM (NTS)
LENGTH = 15', SLOPE = 0.32%

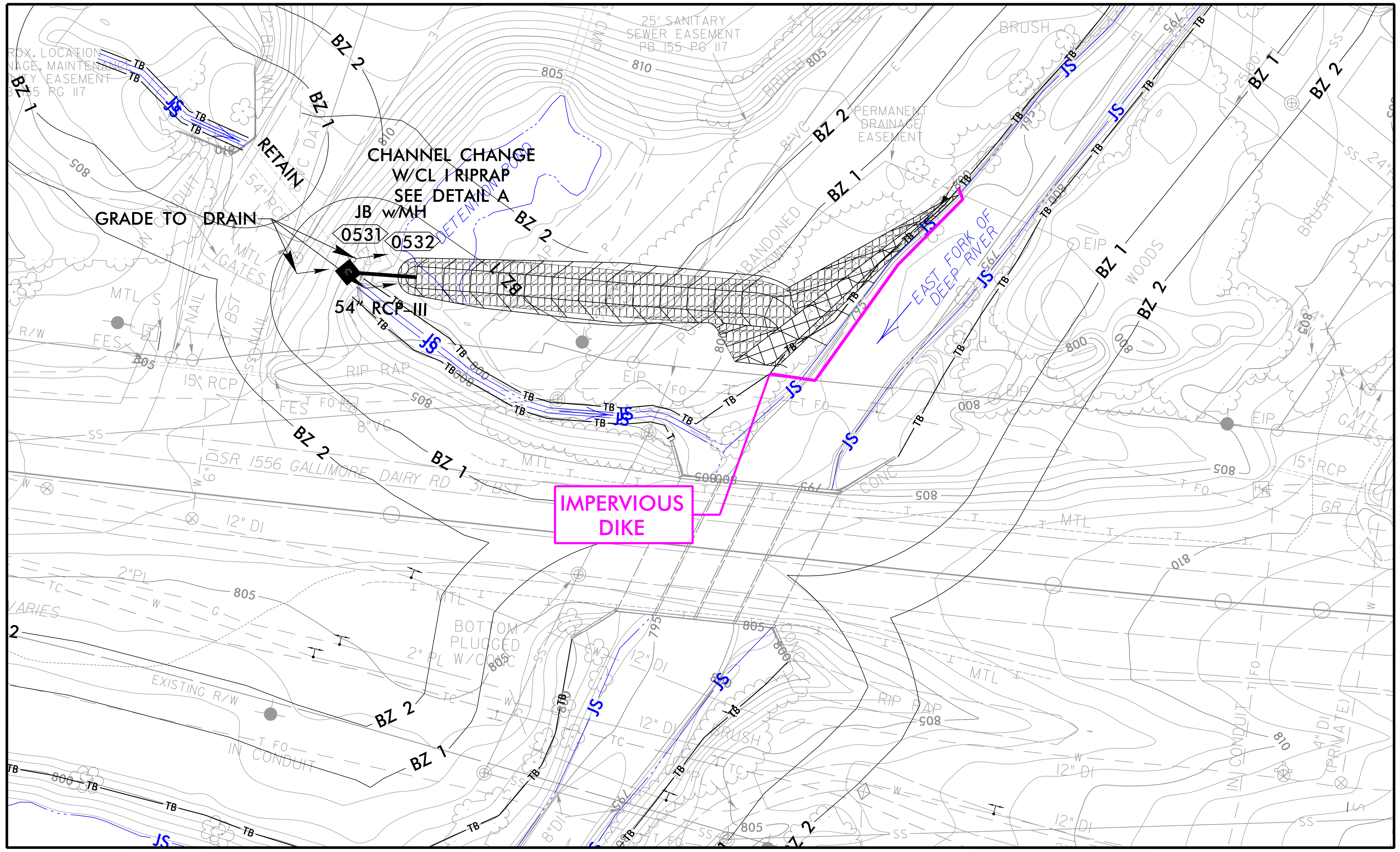
NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAMBED OR FLOODPLAIN AT THE PROJECT SITE DURING CULVERT CONSTRUCTION. ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAMBED MAY BE USED TO LINE THE LOW FLOW CULVERT BARRELS. RIPRAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL IN THE HIGH FLOW CULVERT BARRELS. IF RIPRAP IS USED TO LINE THE HIGH FLOW CULVERT BARRELS, NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

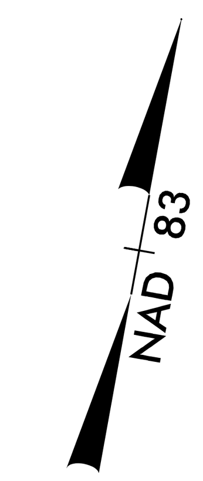
RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5709	EC-05A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

4@13'x11' RCBC EXTENSION INSTALLATION
PHASE I STA. 25+58.5 -L-





1. MAINTAIN TRAFFIC ON EXISTING ROADWAY.
2. USE SPECIAL STILLING BASINS TO DEWATER WORK SITE.
3. INSTALL IMPERVIOUS DIKE AS SHOWN TO ISOLATE WEST BANK.
4. COMPLETE CHANNEL AND BANK WORK AND CONSTRUCT PROPOSED LATERAL BASE DITCH.
5. REMOVE IMPERVIOUS DIKE.
6. INSTALL JB W/MH AND 54" RCP-III TO ROUTE FLOW INTO LATERAL BASE DITCH.
7. BEGIN PHASE II.

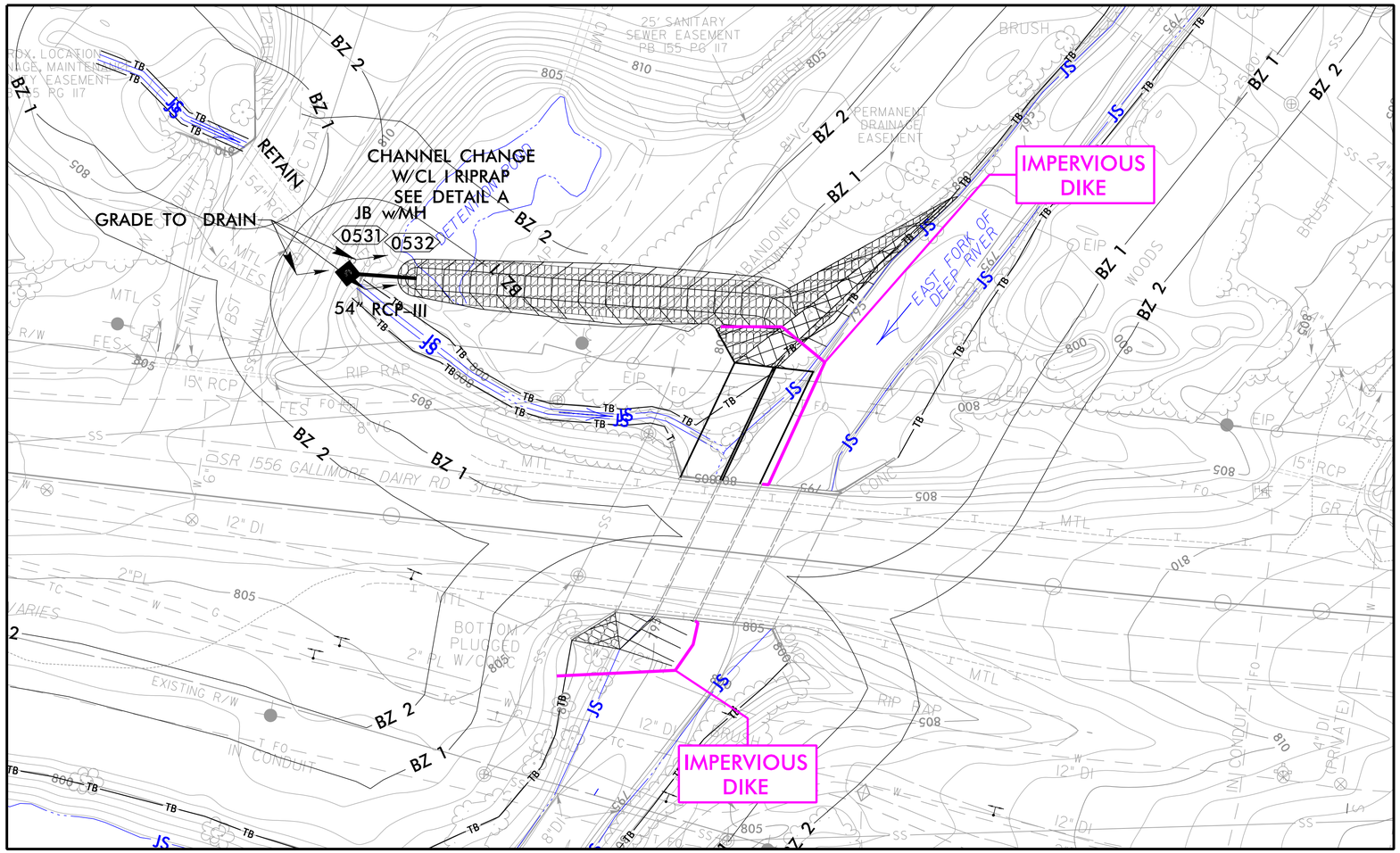
RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

9/23/2024
R:\Hydraulics\CADD\PSH\EC\U-4015A_EC_psh05A.dgn
choffman

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5709	EC-05B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

4@13'x11' RCBC EXTENSION INSTALLATION
PHASE II STA. 25+58.5 –L–

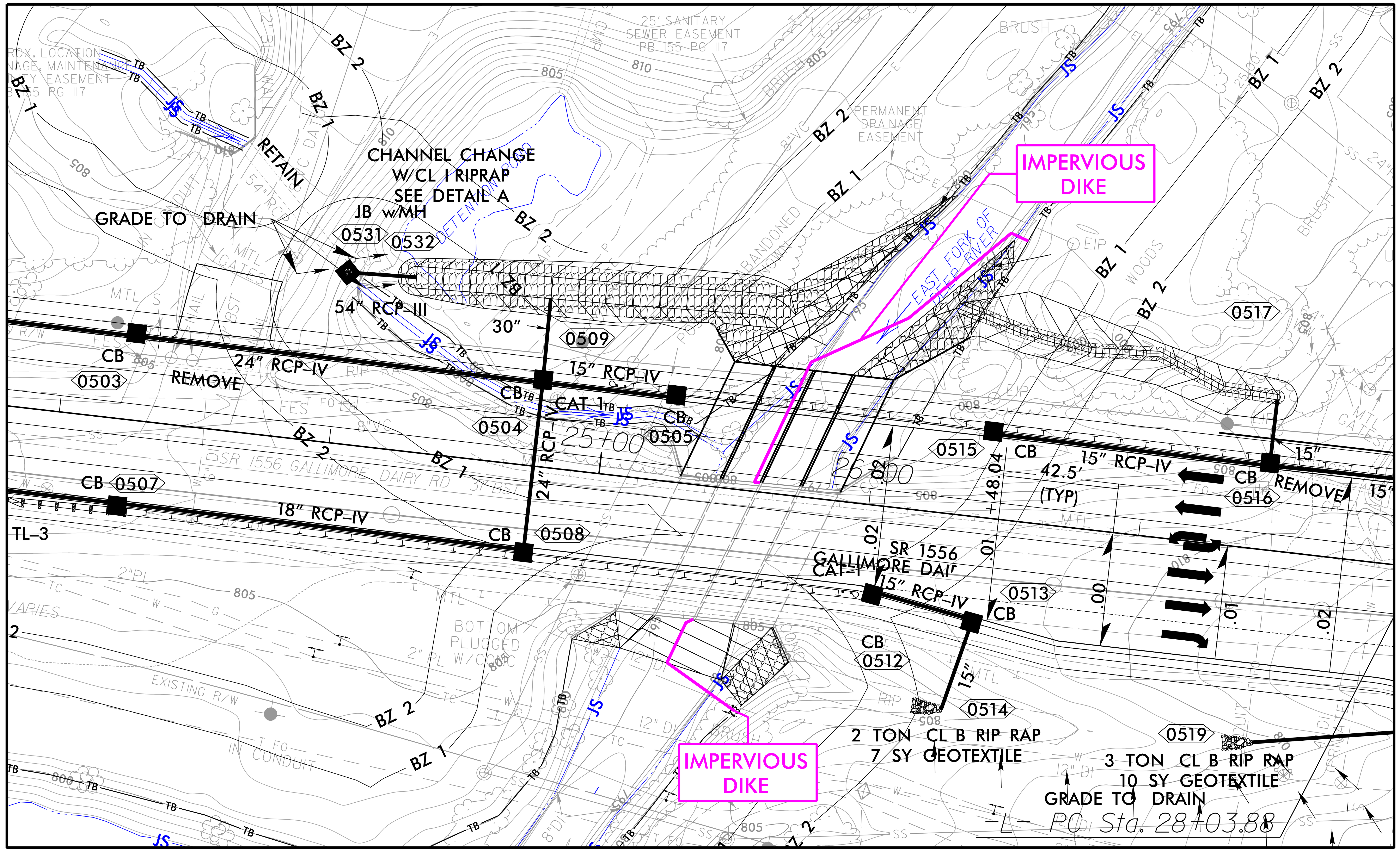


1. INSTALL IMPERVIOUS DIKES AS SHOWN TO BLOCK FLOW THROUGH WEST TWO BARRELS.
2. USE SPECIAL STILLING BASINS TO DEWATER WORK SITE.
3. INSTALL WEST TWO BARRELS OF CULVERT EXTENSION.
4. COMPLETE CHANNEL AND BANK WORK AT INLET AND OUTLET.
5. BEGIN PHASE III.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

PROJECT REFERENCE NO.	SHEET NO.
R-5709	EC-05C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

4@13'x11' RCBC EXTENSION INSTALLATION
PHASE III STA. 25+58.5 -L-



NAD 83

1. COMPLETE PHASE DURING DRY PERIOD.
2. ADJUST IMPERVIOUS DIKES AS SHOWN TO SHIFT FLOW TO WEST TWO BARRELS.
3. USE SPECIAL STILLING BASINS TO DEWATER WORK SITE.
4. INSTALL EAST TWO BARRELS OF CULVERT EXTENSION.
5. COMPLETE CHANNEL AND BANK WORK AT INLET AND OUTLET.
6. CONSTRUCT LATERAL BASE DITCH.
7. REMOVE IMPERVIOUS DIKES AND SPECIAL STILLING BASINS.
8. CONSTRUCT PROPOSED ROADWAY.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99
9/23/2024
R:\Hydraulics\CADD\PSH\EC\U-4015A_EC_psh05C.dgn
choffman

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-06/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

MATCHLINE -L- STA. 34+00.00 SEE SHEET 5

MATCHLINE -L- STA. 48+00.00 SEE SHEET 7

12A
WTA HOLDINGS LLC
DB 7880 PG 51
PB 193 PG 34
PB 144 PG 106
PB 209 PG 150

12
WTA HOLDINGS LLC
DB 7880 PG 51
PB 193 PG 34
PB 144 PG 106
PB 209 PG 150

16
BCORE TIMBER APS OWNER, LLC
DB 8243 PG 784
PB 128 PG 94

15
KORURY CORP.
DB 8513 PG 2620
PB 201 PG 24

14
KORURY NST LLC
DB 8601 PG 2417
PB 205 PG 94

17
CTE GREENSBORO GALLIMORE LLC
DB 8557 PG 596
PB 201 PG 24

APPROXIMATE LOCATION PROVIDED BY OTHERS

NOTE: DO NOT DISTURB EXISTING BACK FLOW PREVENTERS (TYPICAL)

NOTE: DO NOT DISTURB EXISTING BACK FLOW PREVENTER

END PROP. RETAINING WALL #2
W/ HANDRAIL -L- STA. 45+00.00

BEGIN PROP. RETAINING WALL #2
W/ HANDRAIL -L- STA. 44+00.00

PROP. 6' SIDEWALK

PROP. 5' SIDEWALK

PROP. 2'-6" C & G

-L- POT Sta. 36+20.72
-Y2- POT Sta. 10+00.00
-Y2- PC Sta. 10+24.36

-L- PC Sta. 40+51.11

-Y2- PT Sta. 10+77.82

-L- PT Sta. 44+38.86

-Y2- +30.00
(TIE TO EXIST C&G AND 5' SIDEWALK)

TIE TO EXIST.
-Y2- STA. 12+30.00

END CONSTRUCTION
-Y2- POT 12+40.00

-Y2- POT Sta. 14+97.68

78 x 26 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
8 ft. weir
ID 6.1

2' BERM TOP ELEV. = 831.5'
THE BERM IS PROPOSED TO MEET HW CONTROL ELEVATION OF 830.9' FOR THE 2 @ 48" RCP AT L STA. 40+00 RT. HW CONTROL ELEVATION WITHOUT BERM = 828.2' TO ALLOW FOR 1.5' FREEBOARD BELOW SHOULDER POINT AT L STA. 38+50 RT. CURRENT DESIGN IS PROPOSED TO AVOID EXCAVATION OF THE JS WITH 66" RCP. FLOW AREA FOR 2 @ 48" = 25'; 1 @ 66" = 24'
SEE PIPE DATA SHEET

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

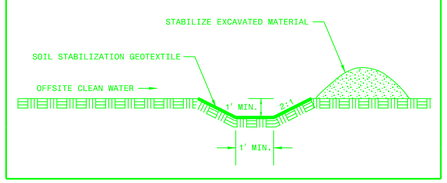
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEAN WATER DIVERSION

(Not to Scale)



RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-07/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

BEGIN PROP. RETAINING WALL #3
W/ HANDRAIL -L- STA. 48+00.00

-L- PC Sta. 50+07.82

PROP. 6' SIDEWALK

END PROP. RETAINING WALL #3
W/ HANDRAIL -L- STA. 53+00.00

-L- PT Sta. 53+12.69

-L- PC Sta. 57+29.72

-L- POC Sta. 61+32.49=
-DRI- POT Sta. 10+00.00

-DRI- PC Sta. 10+40.82

-DRI- PT Sta. 11+26.09

TIE TO EXIST.
-DRI- POT Sta. 11+50.00

MATCHLINE -L- STA. 48+00.00
SEE SHEET 6

MATCHLINE -L- STA. 62+00.00
SEE SHEET 8

16
BCORE TIMBER APS OWNER, LLC
DB 8243 PG 784
PB 128 PG 94

18
BCORE TIMBER OFFICE OWNER, LLC
DB 8243 PG 822
PB 124 PG 62

20
BCORE TIMBER APE OWNER, LLC
DB 8243 PG 777
PB 99 PG 151

15
KOURY CORP.
DB 8513 PG 2620
PB 201 PG 24

17
CTE GREENSBORO GALLIMORE LLC
DB 8557 PG 596
PB 201PG 24

19
COLONIAL PIPELINE CO.
DB 2426 PG 748

COLONIAL PIPELINE CO.
DB 2047 PG 564
DB 2047 PG 539

20' DRAINAGE EASEMENT PB 99 PG 151

20' ACCESS EASEMENT FOR POND MAINTENANCE PB 124 PG 62

SUE WAS NOT PREFORMED WITHIN COLONIAL PIPELINE PROPERTY - HOME LAND SECURITY PROTOCOL

PROP. 2'-6" C & G

REMOVE AND RESET FENCE

GRADE TO DRAIN

TOE PROTECTION SEE DETAIL

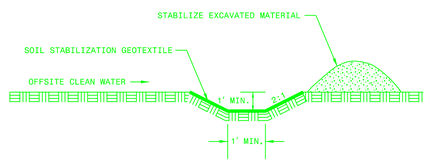
REMOVE FES AND 7' OF EXISTING 18" RCP

DO NOT DISTURB BFP AND SIGN

REMOVE SYSTEM

CLEAN WATER DIVERSION

(Not to Scale)

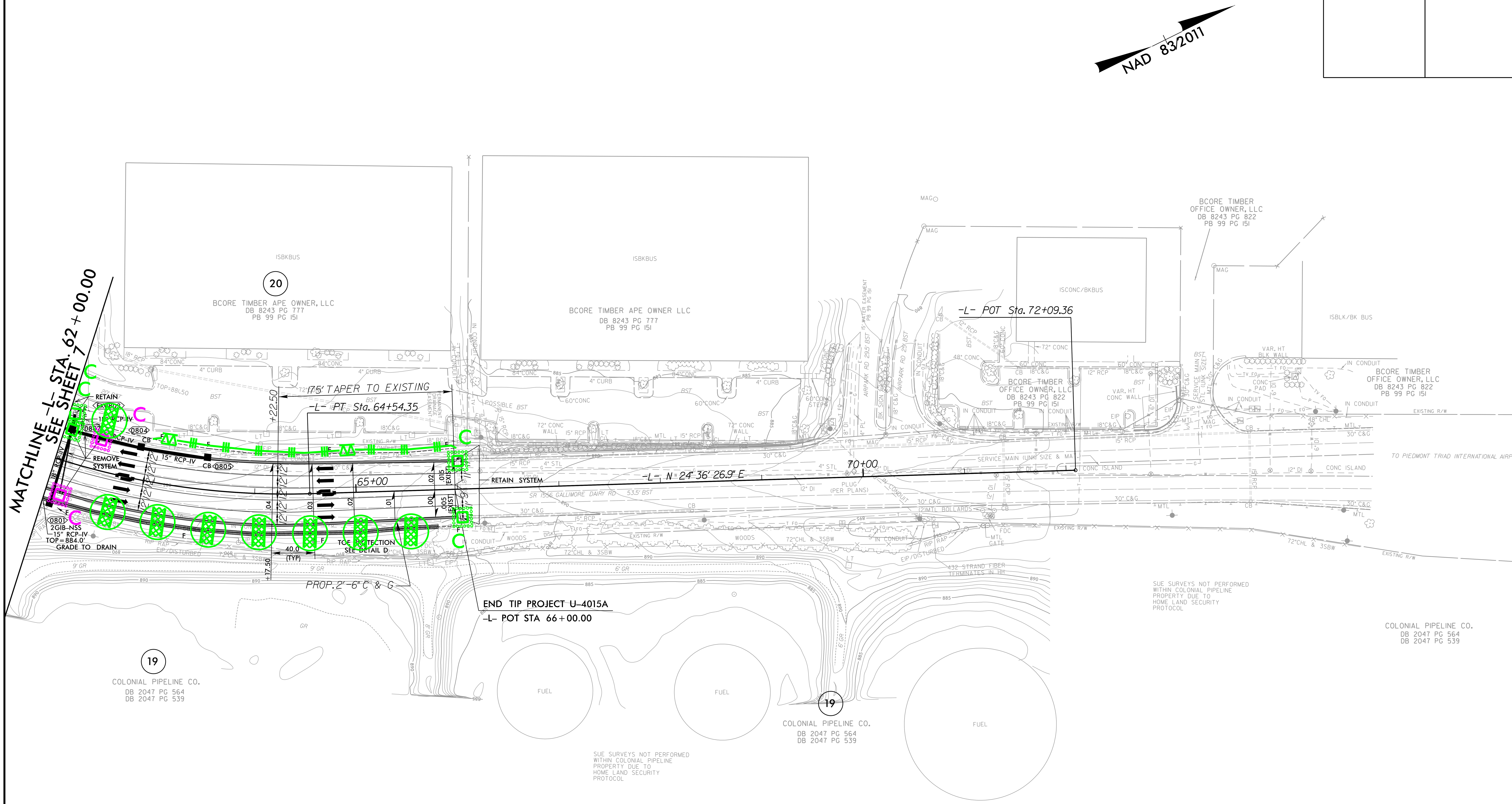


NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-08/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-09/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 2011

-L- STA. 20+00.00
SEE SHEET 5

BEGIN TIP PROJECT U-4015A
-L- POT STA. 10+25.00

-L- POT Sta. 10+00.00

TIE TO EXISTING 2'-6" CURB AND GUTTER

TOE PROTECTION SEE DETAIL D

TRANSITION PROP. 2'-6" C&G TO EXIST 1'-6" C&G

DO NOT DISTURB LIGHT

PROP. 4' MONOLITHIC CONCRETE ISLAND

PROP. 5' SIDEWALK

150' TAPER

408' LEFT TURN LANE

-L- N 73° 44' 55.2" E

2'-6" C & G

SEAL ABANDONED WELL

TIE TO EXISTING 2'-6" CURB AND GUTTER

TO PIEDMONT TRIAD INTERNATIONAL AIRPORT

TO HIGH POINT

GREENSBORO

HIGH POINT

WILLIAMS PROPERTIES II LP
DB 4947 PG 1882
DB 5375 PG 2096

WAFFLE HOUSE, INC.
DB 8080 PG 1231
PB 160 PG 126
PB 153 PG 119

JNS PROPERTIES LLC
DB 8645 PG 1684
PB 155 PG 117

FRANCES P. TICKLE HEIRS
DB 1788 PG 346

FRANCES P. TICKLE HEIRS
DB 2066 PG 221

SBA TOWERS X LLC
DB 8255 PG 2808
PB 150 PG 20

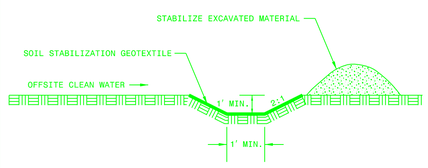
CITY OF HIGH POINT
DB 3781 PG 1064
PB 96 PG 142-145

CITY OF HIGH POINT
NO REFERENCE FOUND

CITY OF HIGH POINT
DB 4241 PG 1891

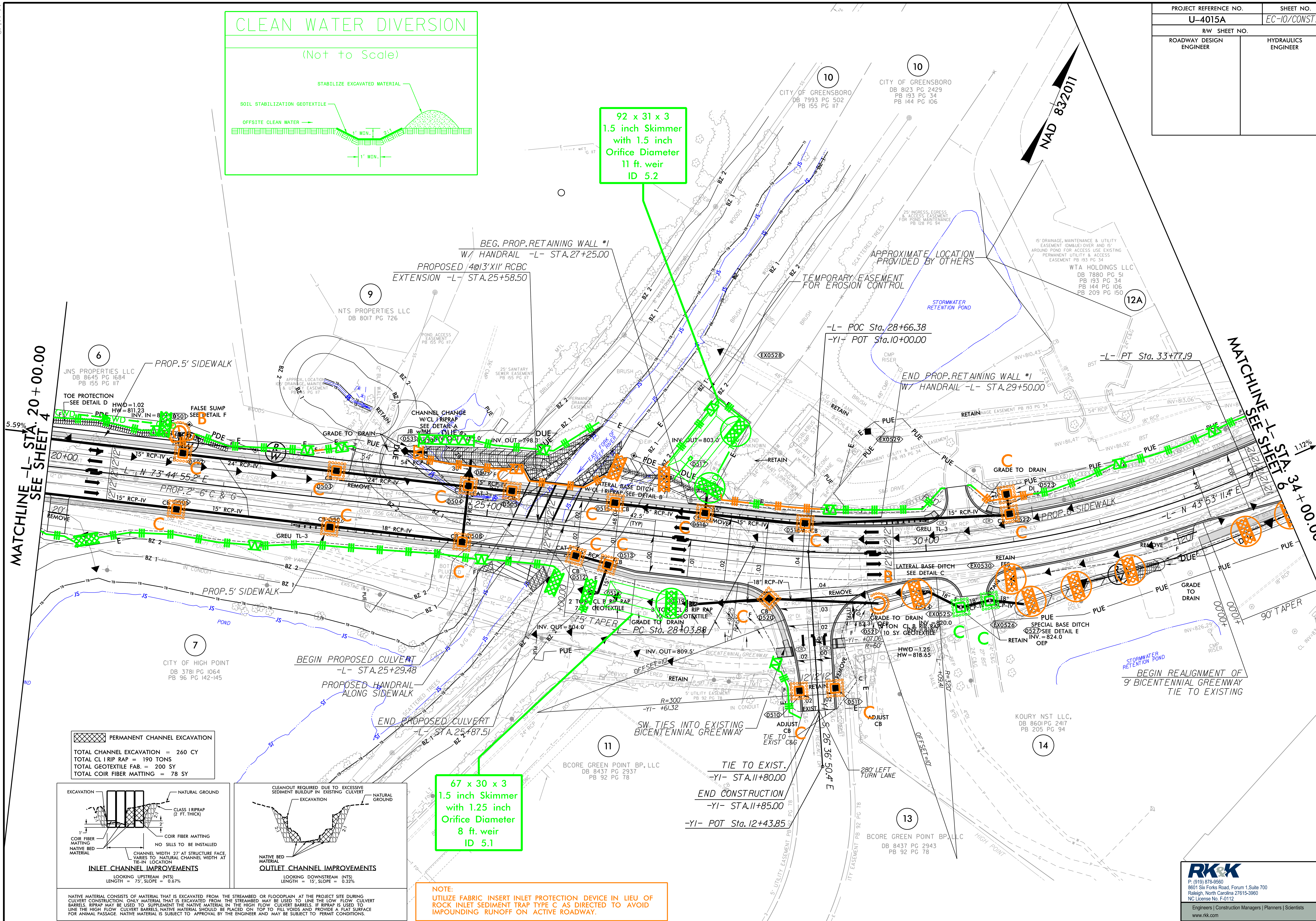
CLEAN WATER DIVERSION

(Not to Scale)



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions



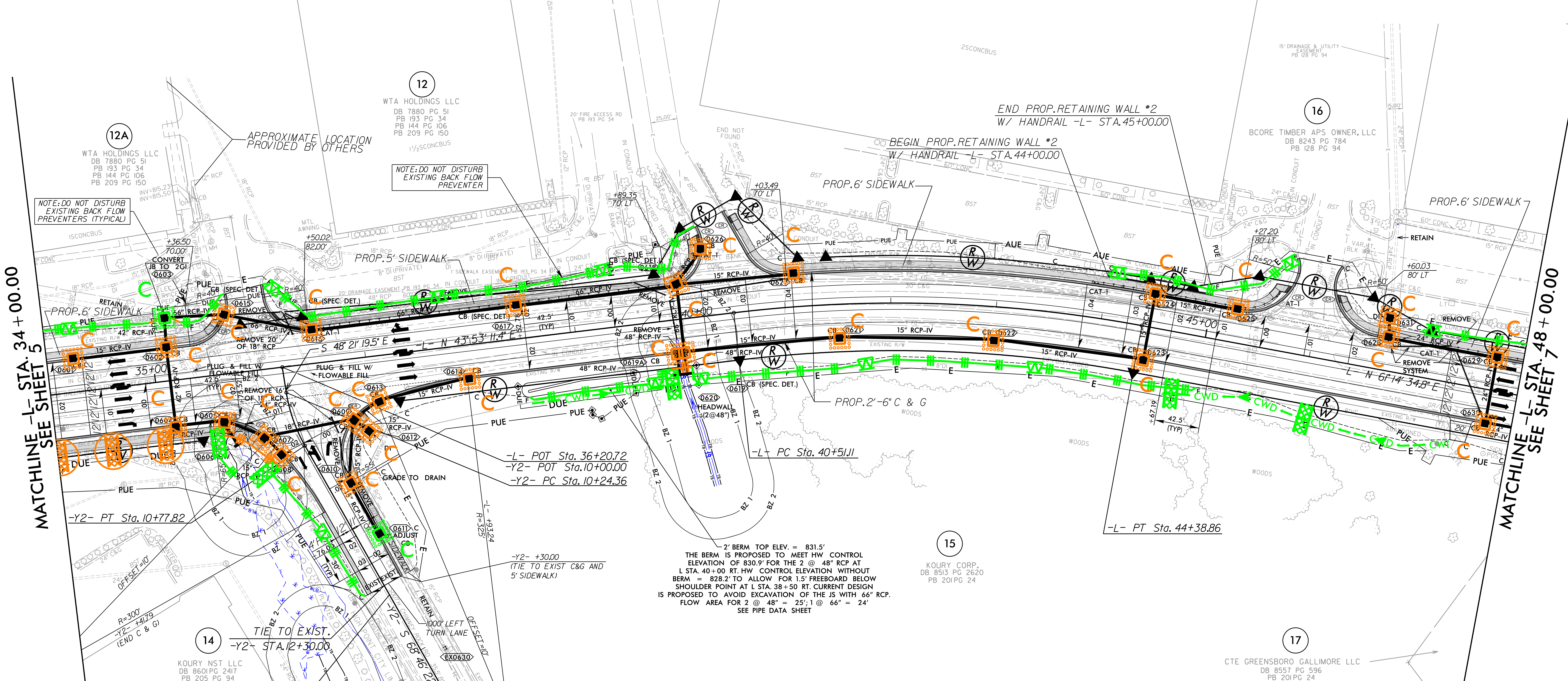
▨	PERMANENT CHANNEL EXCAVATION
TOTAL CHANNEL EXCAVATION	= 260 CY
TOTAL CL I RIP RAP	= 190 TONS
TOTAL GEOTEXTILE FAB.	= 200 SY
TOTAL COIR FIBER MATTING	= 78 SY

NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAMBED OR FLOODPLAIN AT THE PROJECT SITE DURING CULVERT CONSTRUCTION. ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAMBED MAY BE USED TO LINE THE LOW FLOW CULVERT BARRELS. RIPRAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL IN THE HIGH FLOW CULVERT BARRELS. IF RIPRAP IS USED TO LINE THE HIGH FLOW CULVERT BARRELS, NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.

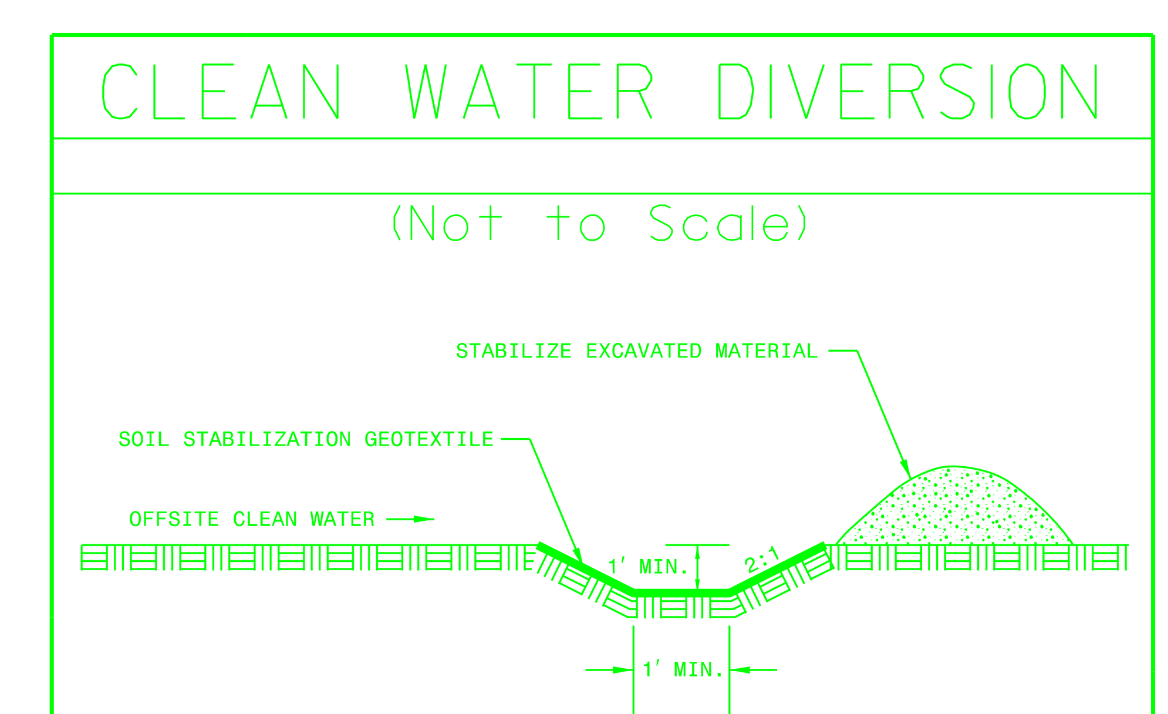
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-II/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



NAD 83/2011
MATCHLINE -L- STA. 34+00.00 SEE SHEET 5
MATCHLINE -L- STA. 48+00.00 SEE SHEET 7
12A
WTA HOLDINGS LLC
DB 7880 PG 51
PB 193 PG 34
PB 144 PG 106
PB 209 PG 150
12
WTA HOLDINGS LLC
DB 7880 PG 51
PB 193 PG 34
PB 144 PG 106
PB 209 PG 150
APPROXIMATE LOCATION PROVIDED BY OTHERS
NOTE: DO NOT DISTURB EXISTING BACK FLOW PREVENTERS (TYPICAL)
NOTE: DO NOT DISTURB EXISTING BACK FLOW PREVENTER
25' INGRESS, EGRESS & ACCESS EASEMENT FOR POND MAINTENANCE PB 128 PG 94
20' FIRE ACCESS RD PB 193 PG 34
+36.50
70.00'
CONVERT JB TO 2GI
0603
+50.02
82.00'
PROP.5' SIDEWALK
PROP.6' SIDEWALK
+89.35
70' LT
+03.49
70' LT
BEGIN PROP.RETAINING WALL #2 W/ HANDRAIL -L- STA.44+00.00
END PROP.RETAINING WALL #2 W/ HANDRAIL -L- STA.45+00.00
16
BCORE TIMBER APS OWNER, LLC
DB 8243 PG 784
PB 128 PG 94
15' DRAINAGE & UTILITY EASEMENT PB 128 PG 94
+27.20
80' LT
+60.03
80' LT
RETAIN
REMOVE SYSTEM
S 48° 21' 19.5" E
-L- N 43°53' 11.4" E
L N 61°14' 34.8" E
35+00
40+00
45+00
66" RCP-IV
48" RCP-IV
42" RCP-IV
15" RCP-IV
18" RCP-IV
24" RCP-IV
PLUG & FILL W/ FLOWABLE FILL
REMOVE 20' OF 18" RCP
REMOVE 16' OF 15" RCP
GRADE TO DRAIN
0620
HEADWALL (2@48")
PROP.2'-6" C & G
-L- POT Sta. 36+20.72
-Y2- POT Sta.10+00.00
-Y2- PC Sta. 10+24.36
-L- PC Sta. 40+51.11
-L- PT Sta. 44+38.86
-Y2- PT Sta. 10+77.82
-Y2- +30.00
(TIE TO EXIST C&G AND 5' SIDEWALK)
2' BERM TOP ELEV. = 831.5'
THE BERM IS PROPOSED TO MEET HW CONTROL ELEVATION OF 830.9' FOR THE 2 @ 48" RCP AT L STA. 40+00 RT. HW CONTROL ELEVATION WITHOUT BERM = 828.2' TO ALLOW FOR 1.5' FREEBOARD BELOW SHOULDER POINT AT L STA. 38+50 RT. CURRENT DESIGN IS PROPOSED TO AVOID EXCAVATION OF THE JS WITH 66" RCP. FLOW AREA FOR 2 @ 48" = 25'; 1 @ 66" = 24'
SEE PIPE DATA SHEET
15
KOURY CORP.
DB 8513 PG 2620
PB 201 PG 24
14
KOURY NST LLC
DB 8601 PG 2417
PB 205 PG 94
TIE TO EXIST. -Y2- STA.12+30.00
END CONSTRUCTION -Y2- POT 12+40.00
R=300'
-Y2- +41.79
(END C & G)
OFFSET=10'
-Y2- S 68° 46' 22.4" E
1000' LEFT TURN LANE
EX0630
-L- +93.24
R=325'
-Y2- POT Sta. 14+97.68
17
CTE GREENSBORO GALLIMORE LLC
DB 8557 PG 596
PB 201 PG 24
CWD



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-12/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

MATCHLINE -L- STA. 48+00.00 SEE SHEET 6

MATCHLINE -L- STA. 62+00.00 SEE SHEET 8

BEGIN PROP. RETAINING WALL #3 W/ HANDRAIL -L- STA. 48+00.00

END PROP. RETAINING WALL #3 W/ HANDRAIL -L- STA. 53+00.00

-L- PC Sta. 50+07.82

-L- PT Sta. 53+12.69

-L- PC Sta. 57+29.72

-L- POC Sta. 61+32.49=
-DRI- POT Sta. 10+00.00

-DRI- PC Sta. 10+40.82

-DRI- PT Sta. 11+26.09

TIE TO EXIST.
-DRI- POT Sta. 11+50.00

PROP. 6' SIDEWALK

PROP. 2'-6" C & G

N 61° 14' 34.8" E

N 79° 57' 54.2" E

S 40° 49' 02.4" E

S 65° 14' 41.4" E

REMOVE AND RESET FENCE

REMOVE FES AND 7' OF EXISTING 18" RCP

DO NOT DISTURB BFP AND SIGN

GRADE TO DRAIN

TOE PROTECTION SEE DETAIL D

SUE WAS NOT PREFORMED WITHIN COLONIAL PIPELINE PROPERTY - HOME LAND SECURITY PROTOCOL

16 — BCORE TIMBER APS OWNER, LLC
DB 8243 PG 784
PB 128 PG 94

18 — BCORE TIMBER OFFICE OWNER, LLC
DB 8243 PG 822
PB 124 PG 62

20 — BCORE TIMBER APE OWNER, LLC
DB 8243 PG 777
PB 99 PG 151

15 — KOURY CORP.
DB 8513 PG 2620
PB 201 PG 24

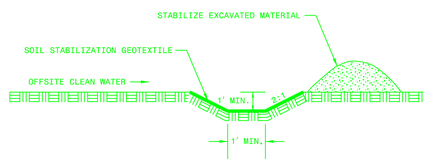
17 — CTE GREENSBORO GALLIMORE LLC
DB 8557 PG 596
PB 201PG 24

19 — COLONIAL PIPELINE CO.
DB 2426 PG 748

COLONIAL PIPELINE CO.
DB 2047 PG 564
DB 2047 PG 539

CLEAN WATER DIVERSION

(Not to Scale)

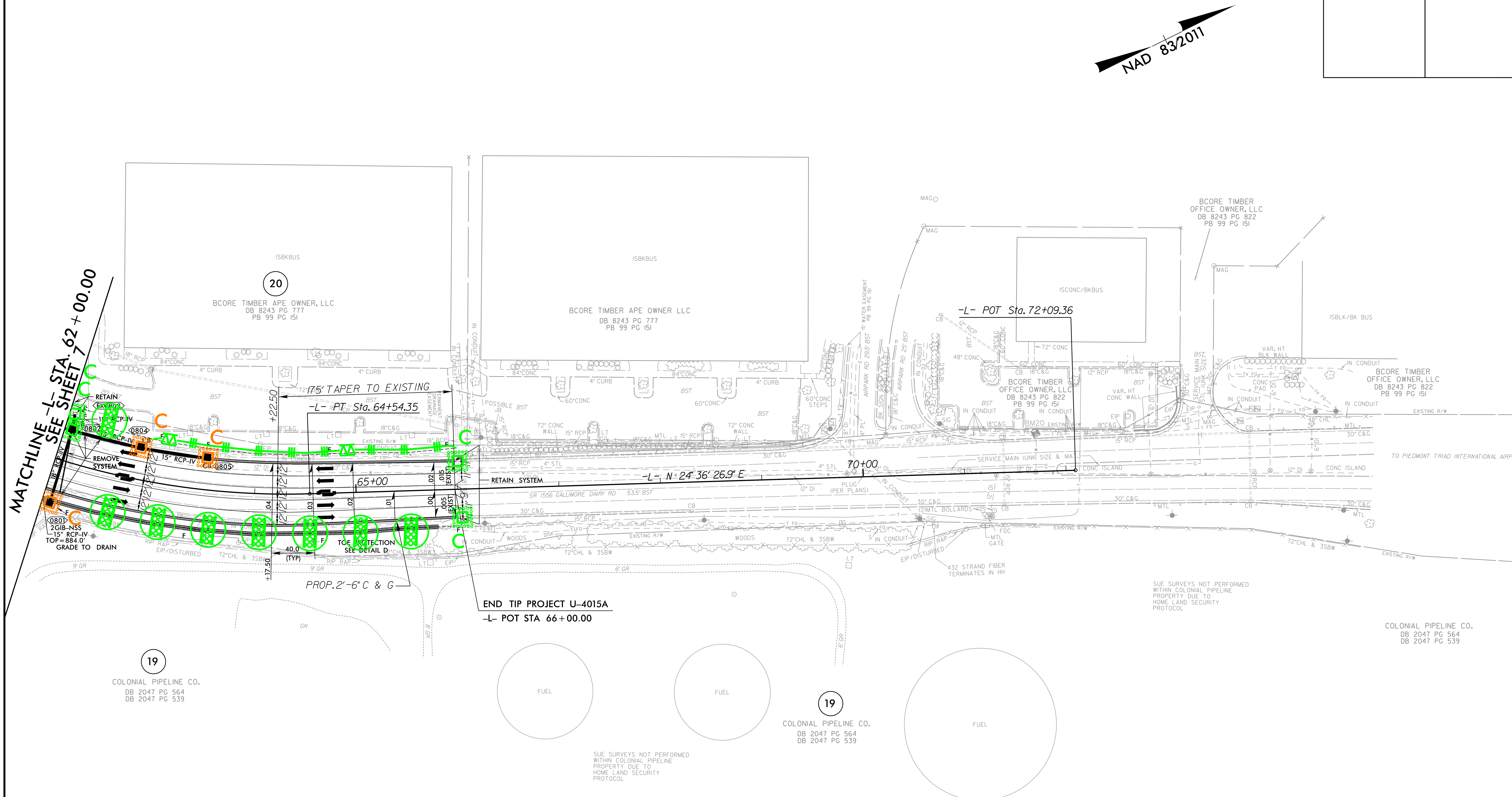


NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

PROJECT REFERENCE NO.	SHEET NO.
U-4015A	EC-13/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS DIRECTED TO AVOID IMPOUNDING RUNOFF ON ACTIVE ROADWAY.

RK&K
P: (919) 878-9560
8601 Six Forks Road, Forum 1,Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions