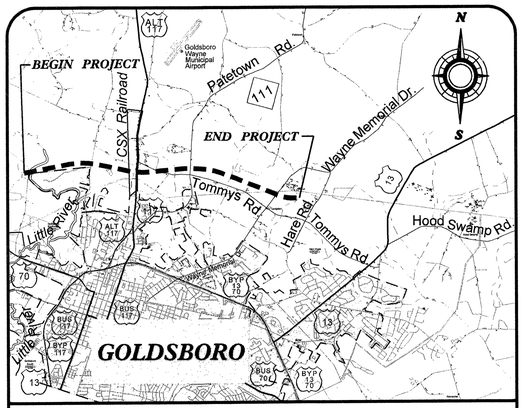
CONTRACT: C201818 T.I.P. PROJ: R-2554BA

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




VICINITY MAP

# STATE OF NORTH CAROLINA
## DIVISION OF HIGHWAYS

# WAYNE COUNTY

***LOCATION: US 70 (GOLDSBORO BYPASS)***
***FROM EAST OF SR 1300 (SALEM CHURCH ROAD)***
***TO EAST OF SR 1556 (WAYNE MEMORIAL DRIVE)***

***TYPE OF WORK: GRADING, PAVING, DRAINAGE,***
***STRUCTURES, CULVERTS, SIGNING, AND SIGNALS***

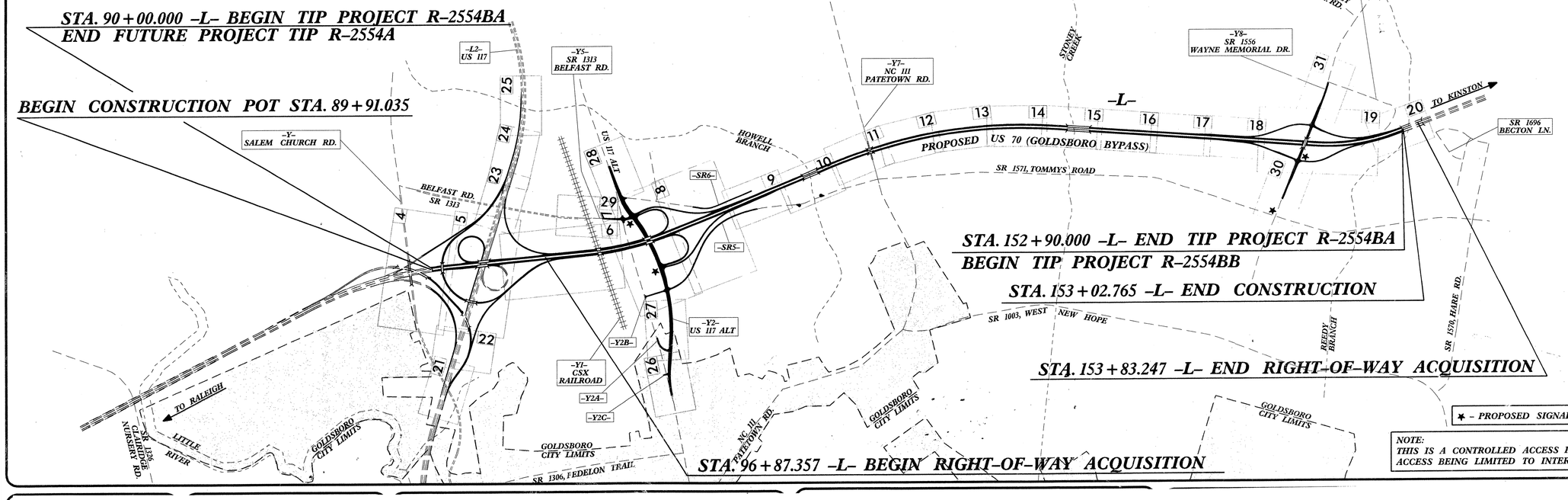
METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | R-2554BA | 1 | |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| 34461.1.3 | NHF-70(30) | PE |
| 34461.2.7 | | R/W & UTIL. |
| 34461.3.GV1 | NHS-70(106) | CONST. |

NAD 83




# PART 2 OF 2

TIP PROJECT: R-2554BA

# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

## PLAN FOR PROPOSED
## HIGHWAY EROSION CONTROL

# WAYNE COUNTY

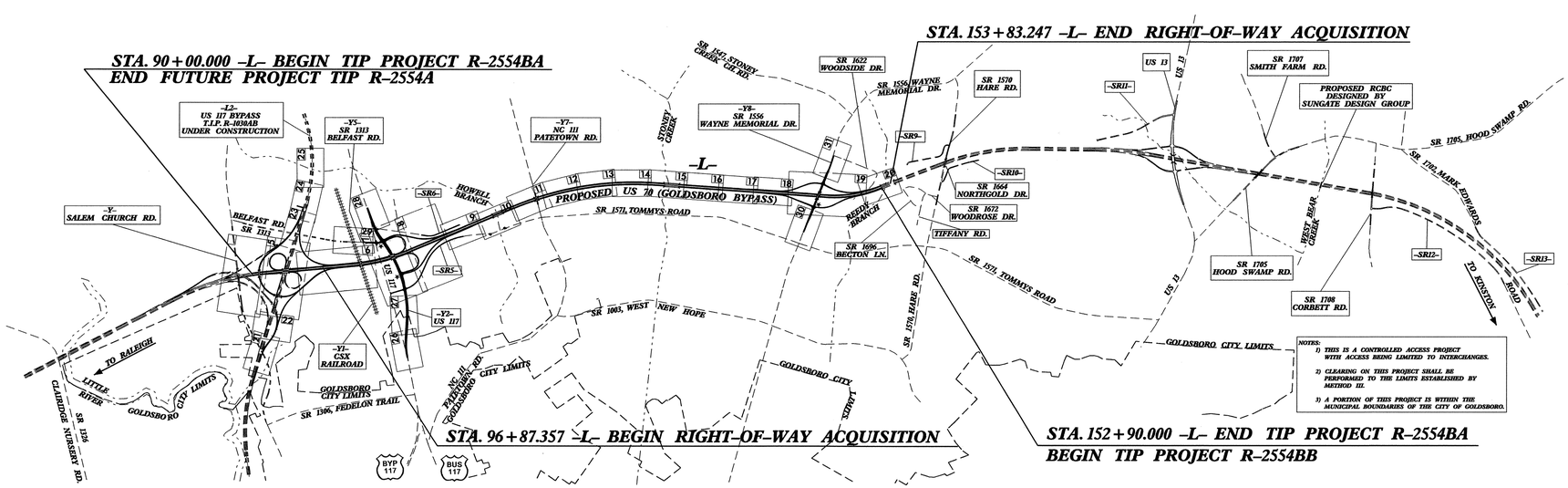
***LOCATION: US 70 (GOLDSBORO BYPASS)***
***FROM EAST OF SR 1300 (SALEM CHURCH ROAD)***
***TO EAST OF SR 1556 (WAYNE MEMORIAL DRIVE)***

***TYPE OF WORK: GRADING, PAVING, DRAINAGE,***
***STRUCTURES, CULVERTS, SIGNING, AND SIGNALS***

NAD 83
NC GRID

***STA. 90+00.000 –L– BEGIN TIP PROJECT R–2554BA***
***END FUTURE PROJECT TIP R–2554A***

***STA. 153+83.247 –L– END RIGHT–OF–WAY ACQUISITION***




***STA. 96+87.357 –L– BEGIN RIGHT–OF–WAY ACQUISITION***

***STA. 152+90.000 –L– END TIP PROJECT R–2554BA***
***BEGIN TIP PROJECT R–2554BB***

**NOTES:**
1) THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
2) CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
3) A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF GOLDSBORO.

ALL DIMENSIONS IN THESE PLANS ARE IN METERS UNLESS OTHERWISE SHOWN

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| N.C. | R-2554BA | EC-1 | |

| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

## EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---|---|---|
| | Streambank Reforestation | |
| 1630.03 | Temporary Silt Ditch | TSD |
| 1630.05 | Temporary Diversion | TD |
| 1605.01 | Temporary Silt Fence | |
| 1606.01 | Special Sediment Control Fence | |
| 1622.01 | Temporary Berms and Slope Drains | |
| 1630.01 | Riser Basin | |
| 1630.02 | Silt Basin Type B | |
| 1633.01 | Temporary Rock Silt Check Type-A | |
| 1633.02 | Temporary Rock Silt Check Type-B | |
| 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 | |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | |
| 1630.04 | 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.**

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

**ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT**

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

***GRAPHIC SCALE***

0
PLANS
0
PROFILE (HORIZONTAL)
0
PROFILE (VERTICAL)

***ROADSIDE ENVIRONMENTAL UNIT***
***DIVISION OF HIGHWAYS***
***STATE OF NORTH CAROLINA***

*Prepared In the Office of:*

***ROADSIDE ENVIRONMENTAL UNIT***
*1 South Wilmington St.*
*Raleigh, NC 27611*

***2006 STANDARD SPECIFICATIONS***

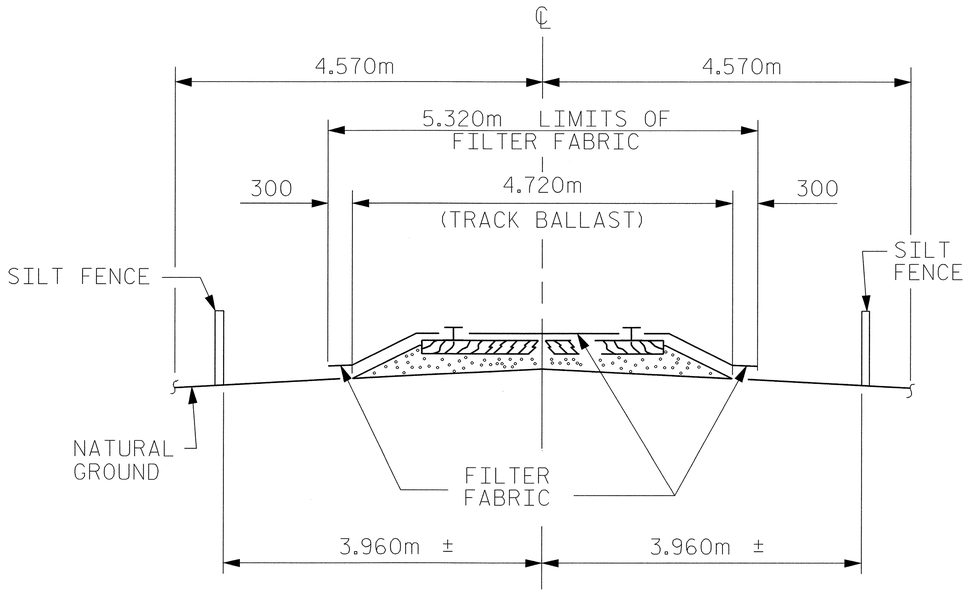
**Roadway Standard Drawings**

**The following roadway metric standards as appear in the 2006 Metric "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.**

| | | | |
|---|---|---|---|
| 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 |
| 1622.01 | Temporary Berms and Slope Drains | 1633.01 | Temporary Rock Silt Check Type A |
| 1630.02 | Silt Basin Type B | 1633.02 | Temporary Rock Silt Check Type B |
| 1630.03 | Temporary Silt Ditch | 1634.02 | Temporary Rock Sediment Dam Type B |
| 1630.05 | Temporary Diversion | 1635.01 | Rock Pipe Inlet Sediment Trap Type A |

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-2 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# RAILROAD EROSION CONTROL DETAIL




NOTES

RAILROAD EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO PERFORMING ANY WORK IN THE RAILROAD RIGHT-OF-WAY.

ADDITIONAL EROSION CONTROL MEASURES FOR PROTECTION OF RAILROAD DITCHES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

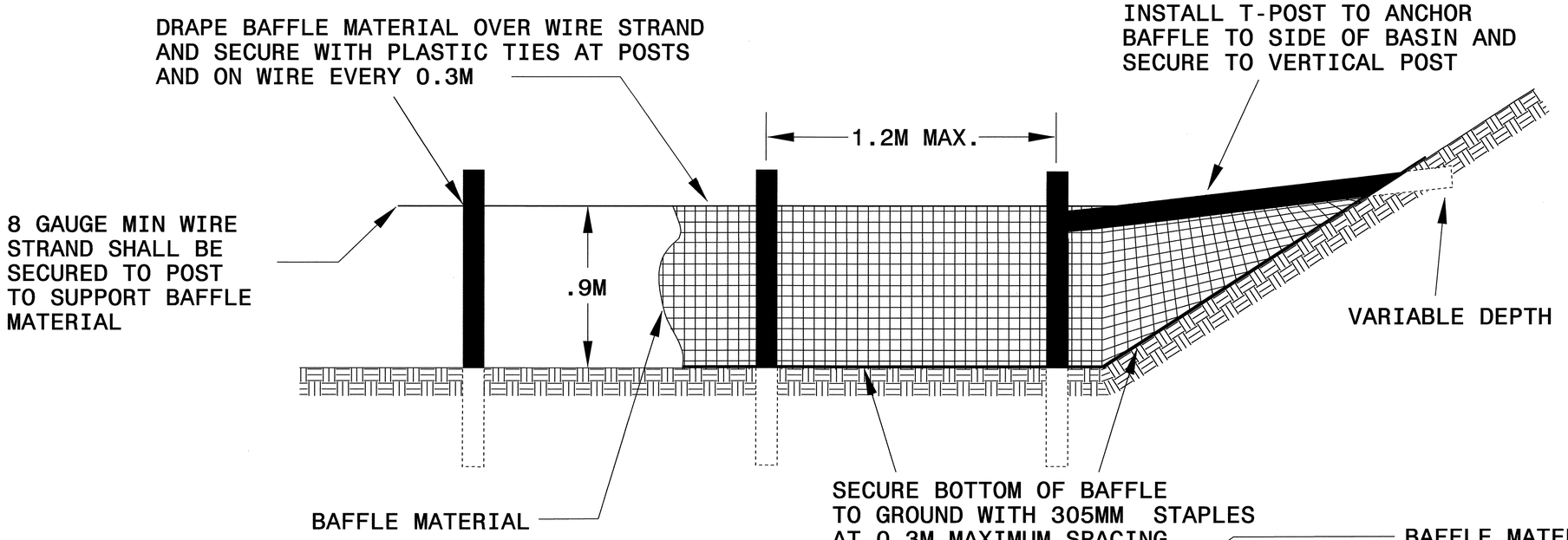
NO SEPARATE PAYMENT WILL BE MADE FOR RAILROAD EROSION CONTROL MEASURES.

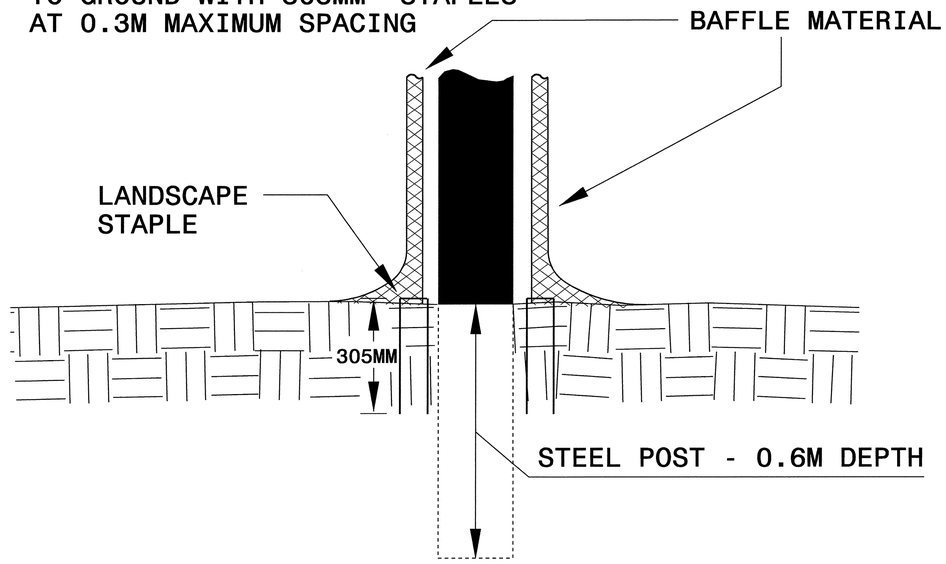
LIMITS OF SILT FENCE AND FILTER FABRIC PARALLEL TO RAILROAD SHALL EXTEND A MINIMUM OF 3.000m OUTSIDE EDGE OF SUPERSTRUCTURE OR TOE OF SLOPE ON CONSTRUCTION. A GREATER LENGTH OF SILT FENCE OR FILTER FABRIC MAY BE REQUIRED IF SO DIRECTED BY THE ENGINEER.

FILTER FABRIC TO BE NAILED TO TIMBER RAIL TIES WITH PRIME SOURCE "GRIP CAP" OR EQUIVALENT. FILTER FABRIC ON SHOULDER TO BE SECURED AS DIRECTED BY THE ENGINEER AND RAILROAD.

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-2A |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# COIR FIBER BAFFLE DETAIL



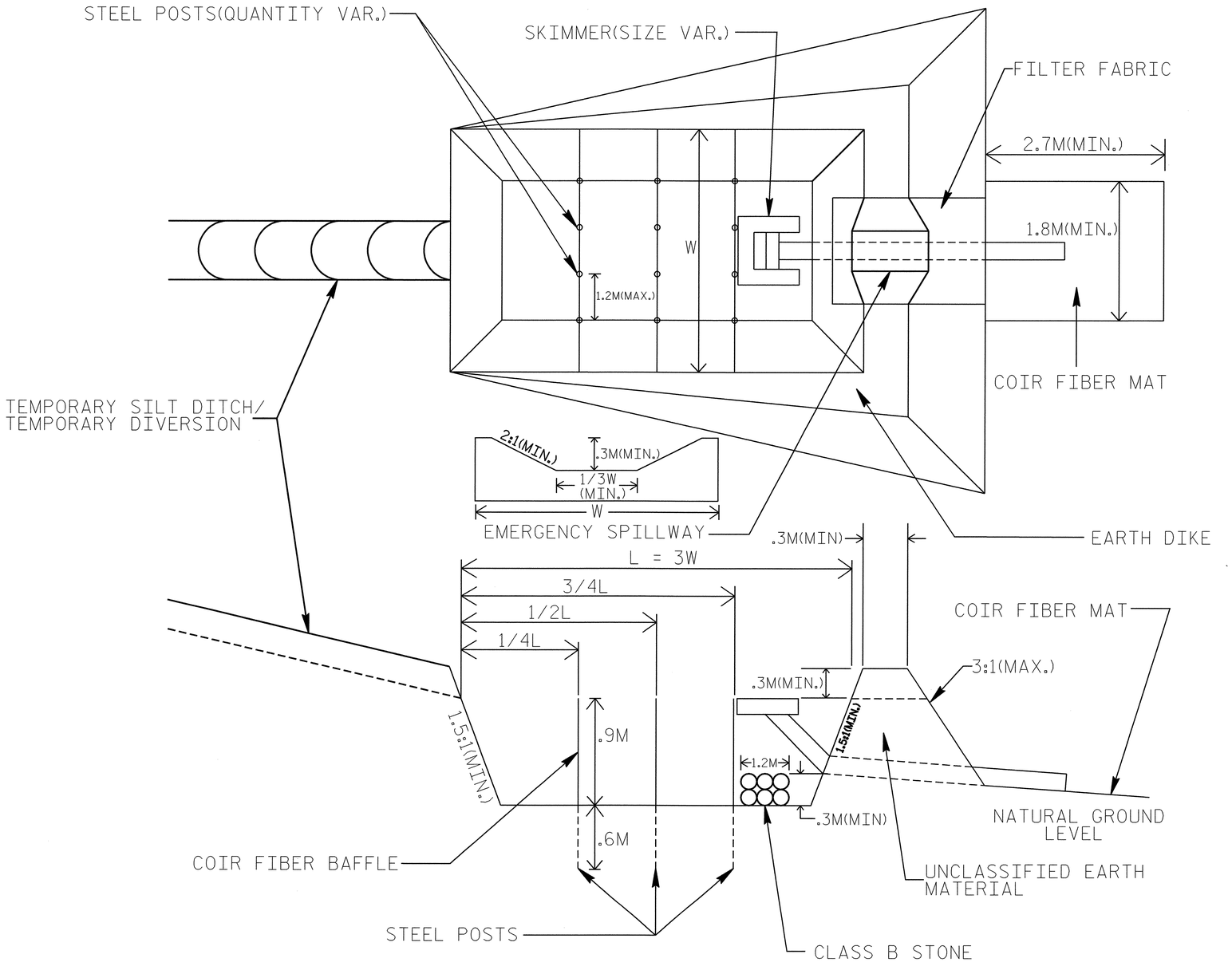




BAFFLE MATERIAL SHALL BE SECURED
TO THE BOTTOM AND SIDES OF BASIN
USING 305MM LANDSCAPE STAPLES

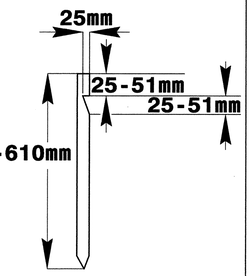
NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 6 M IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

# SKIMMER BASIN WITH BAFFLES DETAIL

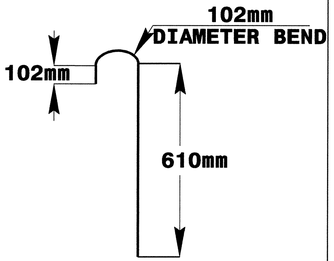
| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-2B |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



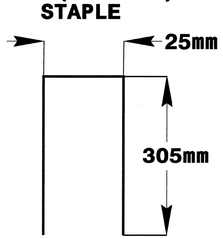

**51mm x 51mm (nominal) WOODEN STAKE**




**#10 STEEL REINFORCEMENT BAR**




**25mm (nominal) STAPLE**

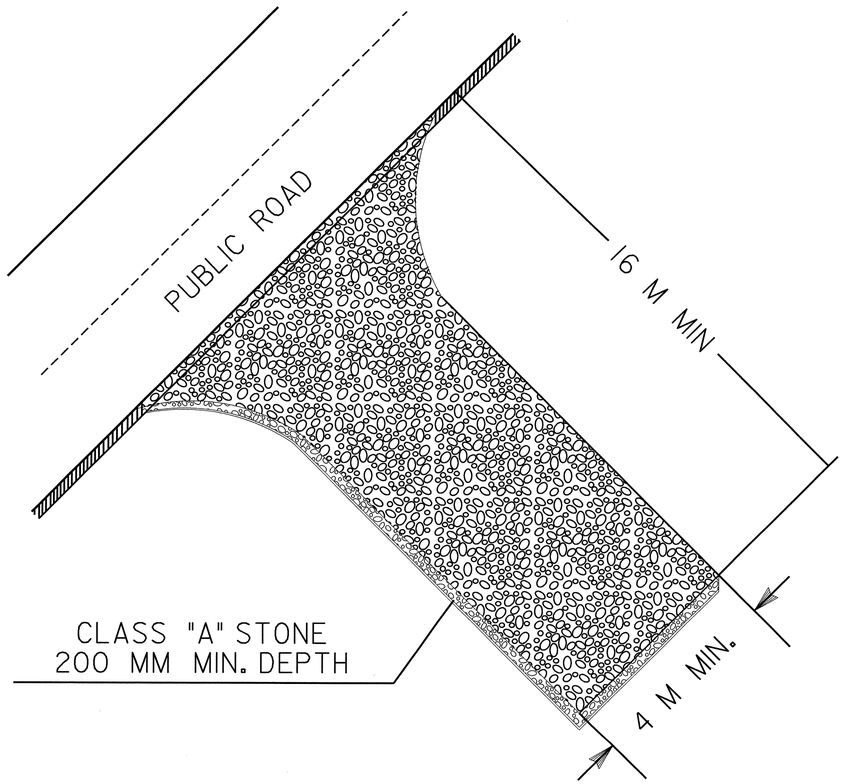



## COIR FIBER MAT ANCHOR OPTIONS

NOTES:
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 1.5M.

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-2c |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



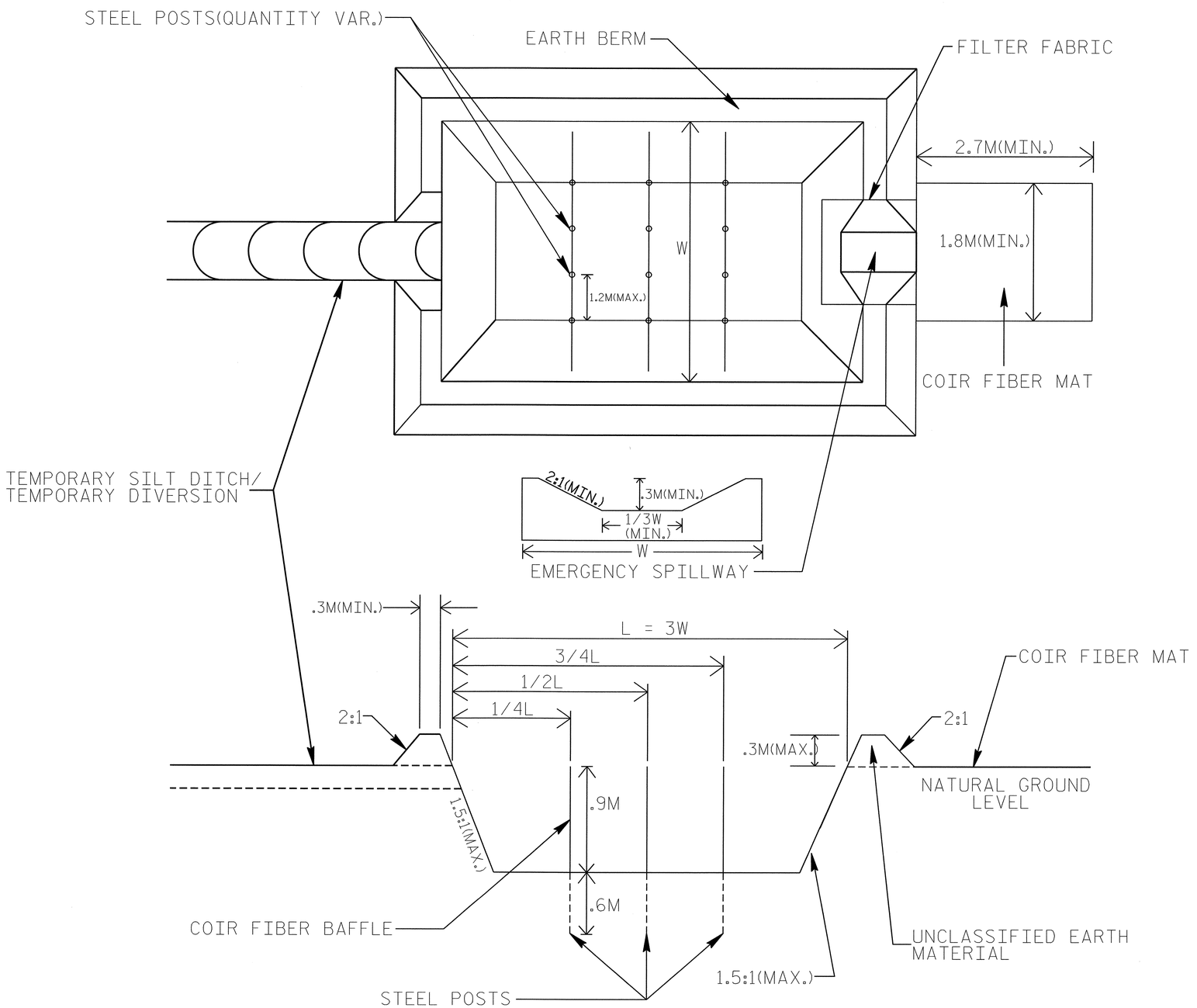

NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

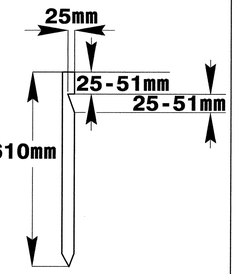
# INFILTRATION BASIN WITH BAFFLES DETAIL

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-2D |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

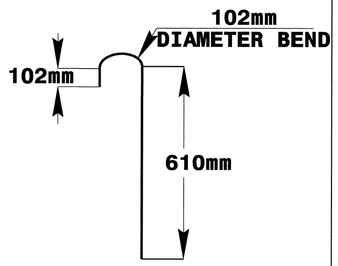



NOTES:
1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 0.9M.
3. AVOID COMPACTING BOTTOM OF BASIN.

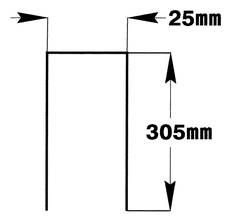
**51mm x 51mm (nominal) WOODEN STAKE**




**#10 STEEL REINFORCEMENT BAR**



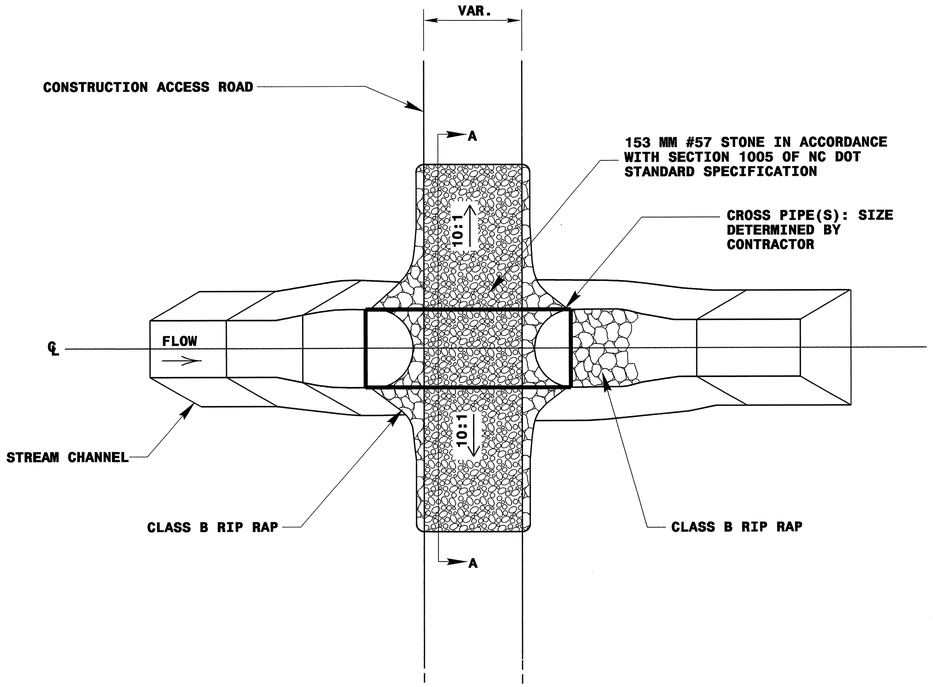

**25mm (nominal) STAPLE**



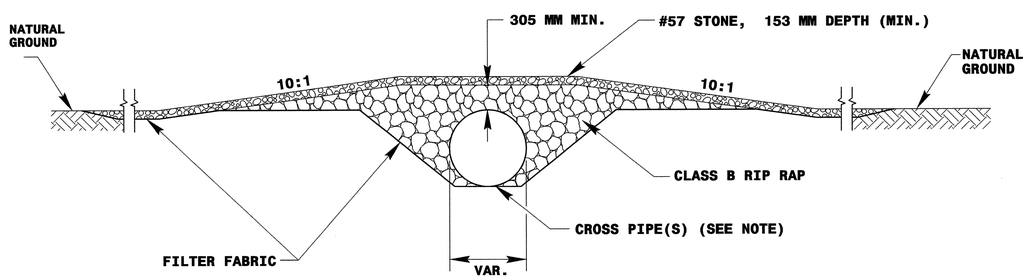

## COIR FIBER MAT ANCHOR OPTIONS

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-2E |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# TEMPORARY STREAM CROSSING




## PLAN VIEW




## SECTION A-A

NOT TO SCALE

**NOTE: PIPE(S) FOR TEMPORARY STREAM CROSSING SHALL BE DESIGNED TO PASS THE PEAK OR BANKFULL FLOW, WHICHEVER IS LESS, FROM A 2-YEAR PEAK STORM, WITHOUT OVER TOPPING.**

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-3 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

STATE OF NORTH CAROLINA

# SOIL STABILIZATION SUMMARY SHEET

## MATTING FOR EROSION CONTROL

| CONST SHEET NO. | LINE | FROM STATION | TO STATION | SIDE | ESTIMATE (SM) |
|---|---|---|---|---|---|
| 4 | -L- | 90+00 | 91+00 | M | 915 |
| 5 | -L- | 91+20 | 92+80 | M | 585 |
| 7 | -L- | 104+20 | 108+20 | M | 1460 |
| 10 | -L- | 115+40 | 118+60 | M | 2340 |
| 15 | -L- | 130+20 | 131+40 | RT | 300 |
| 19 | -L- | 147+20 | 148+40 | LT | 470 |
| 19 | -L- | 148+00 | 148+40 | RT | 150 |
| 19 | -L- | 148+60 | 149+80 | LT | 265 |
| 5 | -L2- | 89+20 | 89+80 | LT | 220 |
| 25 | -L2- | 101+40 | 101+80 | LT | 145 |
| 26 | -Y2- | 11+00 | 12+40 | RT | 310 |
| 26 | -Y2- | 12+40 | 12+80 | LT | 115 |
| 26 | -Y2- | 12+80 | 14+20 | RT | 515 |
| 26 | -Y2- | 12+80 | 14+40 | LT | 400 |
| 7 | -Y2- | 19+20 | 20+00 | RT | 225 |
| 7 | -Y2- | 20+20 | 20+60 | LT | 125 |
| 7 | -Y2- | 23+80 | 24+00 | RT | 75 |
| 4 | -Y2A- | 10+40 | 11+00 | LT | 150 |
| 4 | -Y2B- | 10+80 | 11+40 | LT | 170 |
| 8 | -Y2RPA- | 10+70 | 11+30 | RT | 300 |
| 8 | -Y2RPA- | 12+20 | 12+40 | LT | 95 |
| 7 | -Y2RPA- | 14+60 | 15+00 | LT | 150 |
| 7 | -Y2RPA- | 15+00 | 16+00 | LT | 365 |
| 7 | -Y2RPA- | 15+60 | 16+00 | RT | 115 |
| 8 | -Y2RPD- | 10+80 | 13+00 | RT | 555 |
| 8 | -Y2RPD- | 12+80 | 13+60 | LT | 345 |
| 19 | -Y8RPA- | 13+20 | 14+20 | LT | 615 |
| 19 | -Y8RPA- | 13+00 | 14+00 | RT | 320 |
| 18 | -Y8RPB- | 11+41 | 11+62 | RT | 80 |
| 19 | -Y8RPB- | 12+00 | 13+20 | LT | 445 |

## MATTING FOR EROSION CONTROL

| CONST SHEET NO. | LINE | FROM STATION | TO STATION | SIDE | ESTIMATE (SM) |
|---|---|---|---|---|---|
| 19 | -Y8RPB- | 12+00 | 13+40 | RT | 390 |
| 19 | -Y8RPC- | 12+20 | 12+80 | LT | 185 |
| 19 | -Y8RPC- | 12+20 | 12+80 | RT | 205 |
| 5 | -L2LPB- | 3+20 | 3+80 | LT | 185 |
| 5 | -L2LPD- | 1+40 | 1+80 | LT | 285 |
| 5 | -L2LPD- | 2+40 | 2+57 | LT | 45 |
| 5 | -L2LPD- | 3+20 | 4+00 | LT | 270 |
| 5 | -L2LPD- | 4+40 | 4+80 | RT | 135 |
| 5 | -L2RPD- | 2+40 | 3+30 | LT | 715 |
| 4 | -L2RPBD- | 8+57 | 9+28 | RT | 295 |
| 22 | -L2RPDB- | 3+86 | 4+09 | RT | 85 |
| 21 | -L2RPDB- | 1+00 | 3+60 | RT | 725 |
| 21 | -L2RPDB- | 1+60 | 3+80 | LT | 545 |
| 9 | -SR5- | 16+98 | 17+78 | LT | 175 |
| 7 | -SR6- | 10+40 | 10+60 | LT | 50 |
| 8 | -SR6- | 14+40 | 15+00 | RT | 140 |
| 19 | -Y8- | 15+00 | 15+40 | LT | 100 |
| | | | | | |
| | | | SUBTOTAL | | 16850 |
| MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER | | | | | 3145 |
| | | | | TOTAL | 19995 |
| | | | | SAY | 20000 |

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-3A |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

STATE OF NORTH CAROLINA

# SOIL STABILIZATION SUMMARY SHEET

## PERMANENT SOIL REINFORCEMENT MAT

| CONST SHEET NO. | LINE | FROM STATION | TO STATION | SIDE | ESTIMATE (SM) |
|---|---|---|---|---|---|
| 5 | -L2- | 87+00 | 87+60 | LT | 135 |
| 23 | -L2RPBD- | 2+20 | 3+60 | LT | 310 |
| 4 | -L2RPBD- | 6+60 | 7+80 | RT | 460 |
| 4 | -L2RPBD- | 8+46 | 8+57 | RT | 50 |
| 4 | -L2RPBD- | 9+28 | 10+72 | RT | 595 |
| 7 | -Y2B- | 10+60 | 10+80 | LT | 45 |
| 26 | -Y2C- | 10+20 | 10+40 | LT | 70 |
| 26 | -Y2C- | 10+20 | 10+40 | RT | 75 |
| | | | | | |
| | | | SUBTOTAL | | 1740 |
| | | ADDITIONAL PSRM TO BE INSTALLED | | | 75 |
| | | | | TOTAL | 1815 |
| | | | | SAY | 1825 |

## PERMANENT SOIL REINFORCEMENT MAT

| CONST SHEET NO. | LINE | FROM STATION | TO STATION | SIDE | ESTIMATE (SM) |
|---|---|---|---|---|---|
| | | | | | |

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.
-Y-
PI Sta 10+56.505
Δ= 10° 54' 53.5" (RT)
L = 95.250
T = 47.770
R = 500.000
PI Sta 12+54.073
Δ= 0° 50' 00.0" (RT)
L = 101.811
T = 50.906
R = 7,000.000
EDNA E. WELLS
DB 798 PG. 838
LANE FARMS INC.
DB 965 PG. 766
THOMAS E. HODGIN
DB 480 PG 132
FUTURE CONSTRUCTION
GPS R1030A-5 POT 13+64.010=
-Y- STA. 11+88.873 (6.14lm LT)
EL. 39.807
-Y- PT Sta.13+04.978
-Y- POT Sta.13+36.678 =
-L2RPC- POC Sta.2+96.083
Δ = 108°26'03.3"
-Y- PC Sta.12+03.167
-Y- PT Sta.11+03.985
-Y- PC Sta.10+08.735
-Y- POT Sta.10+00.000
BEGIN CONSTRUCTION
N 10° 05' 11.8" E
N 10° 55' 11.8" E
N 10° 49' 41.7" W
SR 1300 SALEM CHURCH RD 6.2 BST
-Y- POT Sta.13+87.934 =
-L- POC Sta.88+58.525
Δ = 85°14'09.6"
-L2RPB- POC Sta.6+36.719 =
-L2RPDB- POC Sta.10+88.135
Δ = 40°42'18.2"
-L2RPB- SC Sta.6+22.476
(FUTURE)
-L2RPB- POS Sta.6+01.993 =
-Y- POT Sta.14+40.102
Δ = 114°50'29.537"
GPS R-1030A-6 PINC 78+78.274=
-Y- STA. 15+39.225 (5.483m LT)
EL.= 40.904
GPS R-1030A-6 POT 5+00.000=
BY PINC 9+64.033=
-Y- STA. 15+88.848 (5.167m LT)
EL. 40.903
-L2RPB- TS Sta.5+62.476
(FUTURE)
-L2RPDB- POC Sta.10+54.209 =
-Y- POC Sta.14+14.152
Δ = 112°58'56.8"
-L2RPDB- POC Sta.10+03.224 =
-L- POC Sta.89+04.195
Δ = 34°00'10.5"
END GRADING ONLY
-L2RPB- Sta.5+00.000
BEGIN CONSTRUCTION POT STA. 89+91.035
POT STA. 90+00.00 -L- BEGIN TIP PROJECT R-2554BA
POT STA. 90+00.00 -L- END TIP PROJECT R-2554A
END GRADING ONLY
-L2RPDB- Sta.9+25
BEGIN GRADING ONLY
-L2RPC- Sta.4+40.000
-L2RPDB- SC Sta.8+62.775
-L2RPDB- TS Sta.8+02.775
LATERAL V DITCH
SEE DETAIL I
N 24° 22' 46.0" W
S 74° 51' 28.5" W
GRADE AREA TO
DRAIN TO 2GI
2GI
TYPE A
END BRIDGE
-L2RPBD- STA.8+30.300
END APPROACH SLAB
-L2RPBD- STA.8+37.615
SHOULDER BERM GUTTER
-L2RPBD- STA. 8+38.325 TO 8+41.413
-L2RPBD- POC Sta.8+00.816 =
-L- POC Sta.90+62.554
Δ = 85°37'45.9"
BEGIN BRIDGE
-L2RPBD- STA.7+71.700
BEGIN APPROACH SLAB
-L2RPBD- STA.7+64.391
4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB
SHOULDER BERM GUTTER
-L2RPBD- STA. 7+62.633
TO 7+66.403
HP
-RAMPBD- STA. 7+97.893
SPECIAL MEDIAN
CUT DITCH
SEE DETAIL B
-L- CS Sta.91+04.028
1.8 TONS CL B RIPRAP
W/5.9 SM FIL FAB
75m TAPER
LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777
-L-
PI Sta 86+56.056
Δ= 20° 45' 49.6" (RT)
L = 905.991
T = 458.019
R = 2,500.000
PIs Sta 91+24.028
θs = 0° 41' 15.2"
Ls = 60.000
LT = 40.000
ST = 20.000
US 70
US 117 BYPASS
2008 ADT
2028 ADT
(IN HUNDREDS)
PROJECTED TRAFFIC VOLUMES
MATCHLINE -L2RPC- STA. 5+60 SEE SHEET 5
MATCHLINE -L- STA. 91+20 SEE SHEET 5
MATCHLINE -L2RPBD- STA. 5+97.042 SEE SHEET 5
GRADING ONLY
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
NOTE: See Detail Sheet 2-P for Interchange Curve Data.
NOTE: See Detail Sheet 2-T For Bridge Sketch Showing Pavement In Relation To Bridge Width
SEE SHT. 33 FOR -L- PROFILE
SEE SHT. 47 FOR -L2RPB- PROFILE
SEE SHT. 49 FOR -L2RPC- PROFILE
SEE SHTS. 52 & 53 FOR -L2RPBD- PROFILE
SEE SHT. 56 FOR -L2RPDB- PROFILE
METRIC
PROJECT REFERENCE NO. R-2554BA
SHEET NO. EC-4/CONST.4
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
DATE:
CHECKED BY:
DATE:
7/06/99
03-DEC-2007 13:47

METRIC
PROJECT REFERENCE NO. R-2554BA
SHEET NO. EC-5/CONST.5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
MATCHLINE -L2RPC- STA. 5+60 SEE SHEET 4
MATCHLINE -L- STA. 91+20 SEE SHEET 4
MATCHLINE -L2RPB- STA. 5+98 SEE SHEET 4
MATCHLINE -L2RPC- STA. 7+45 SEE SHEET 22
MATCHLINE -L2- 85+80 SEE SHEET 22
MATCHLINE -L2RPDB- STA. 4+80 SEE SHEET 22
MATCHLINE -L2RPD- STA. 1+70 SEE SHEET 22
MATCHLINE -L2RPBD- STA. 3+80 SEE SHEET 23
MATCHLINE -L2- STA. 93+20 SEE SHEET 23
MATCHLINE -L2RPA- STA. 4+50 SEE SHEET 23
MATCHLINE -L2RPA- STA. 3+00 SEE SHEET 6
MATCHLINE -L- STA. 95+20 SEE SHEET 6
MATCHLINE -L2RPBD- STA. 14+00 SEE SHEET 6
A
B
C
D
17 x 8 x 1 2.7 m weir ID 5.7C (See Infiltration Basin Detail)
15 x 4 x 1 ID 5.8C
42 x 12 x 1 4 m weir ID 5.3C (See Infiltration Basin Detail)
40 x 19 x 1 6.3 m weir ID 5.2C (See Infiltration Basin Detail)
24 x 11 x 1 4 m weir ID 5.5C
15 x 6 x 1 3.5 m weir ID 5.10F (See Infiltration Basin Detail)
24 x 8 x 1 3.5 m weir ID 5.6C (See Infiltration Basin Detail)
10 x 5 x 1 1.7 m weir ID 5.11F (See Infiltration Basin Detail)
11 x 4 x 1 ID 5.6C
18 x 8 x 1 3 m weir ID 5.21C
18 x 8 x 1 2.7 m weir ID 5.20C (See Infiltration Basin Detail)
19 x 9 x 1 3 m weir ID 5.10C
7 x 3 x 1 38 mm Skimmer with 25 mm Orifice Diameter 2 m weir ID 5.12C
13 x 6 x 1 2 m weir ID 5.11C
14 x 7 x 1 2 m weir ID 5.1C
17 x 6 x 1 51 mm Skimmer with 51 mm Orifice Diameter 2 m weir ID 5.17C
6 x 2 x 1 38 mm Skimmer with 19 mm Orifice Diameter 2 m weir ID 5.15C
6 x 3 x 1 38 mm Skimmer with 23 mm Orifice Diameter 2 m weir ID 5.16C
14 x 5 x 1 51 mm Skimmer with 43 mm Orifice Diameter 2 m weir ID 5.13C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 5.19C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 5.18C
26 x 12 x 1 102 mm Skimmer with 79 mm Orifice Diameter 4 m weir ID 5.22C
23 x 12 x 1 4 m weir ID 5.12F
22 x 11 x 1 3.7 m weir ID 5.9C (See Infiltration Basin Detail)
11 x 5 x 1 2 m weir ID 5.14C
-L2RPDB- ST Sta.6+81.797
-L2RPDB- CS Sta.6+21.797
-L- ST Sta.91+64.028
-L- POT Sta.93+23.591 = -L2- POT Sta.90+29.263 = Δ = 67°41'11.20"
-L2- POT Sta.86+57.806 = -L2RPDB- POC Sta.5+63.595 Δ = 42°19' 02.6"
-L2- POT Sta.87+73.739 = -L2RPBD- POC Sta.11+09.326 Δ = 85°12' 03.1"
-L2- N 34°47' 00.0" E
-L2RPD- SC Sta.1+99.163
-L2RPD- CS Sta.3+72.300
-L2RPD- ST Sta.4+32.300
-L2RPD- POT Sta.5+10.361
-L2RPBD- ST Sta.13+59.328
-L2RPBD- CS Sta.12+99.328
-L2RPBD- SC Sta.5+97.062
-L2RPBD- TS Sta.5+37.062
-L2RPBD- ST Sta.5+17.062
-L2RPBD- CS Sta.4+57.062
-L2RPB- ST Sta.1+73.446
-L2RPB- CS Sta.1+13.446
-L2LPB- PCC Sta.1+26.652
-L2LPB- SC Sta.0+90.000
-L2LPB- PCC Sta.3+62.010
-L2LPB- CS Sta.3+98.662
-L- Sta.92+90.586= -L2LPB- ST Sta.0+00.000 (14.2m LT)
-L2- Sta.90+07.831= -L2LPD- ST Sta.4+98.146 (14.2m RT)
-L- Sta.93+45.023= -L2LPD- ST Sta.0+00.000 (14.2m RT)
-L2LPD- CS Sta.4+08.146
-L2LPD- SC Sta.0+90.000
-L2RPA- PCC Sta.4+12.503
BL- 560B PINC 8+42.881= -L- STA. 91+63.910 (0.931m RT) EL. 38.956
US 117 ALT. SBL
US 117 ALT. NBL
LANE FARMS, INC. DB 965 PG 766 DB 874 PG 277 DB 965 PG 777
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
NOTE: See Detail Sheet 2-P for Interchange Curve Data.
NOTE: See Detail Sheet 2-T For Bridge Sketch Showing Pavement In Relation To Bridge Width
SEE SHT. 33 FOR -L- PROFILE
SEE SHT. 58 FOR -L2LPB- PROFILE
SEE SHT. 59 FOR -L2LPD- PROFILE
SEE SHT. 46 FOR -L2RPA- PROFILE
SEE SHT. 47 FOR -L2RPB- PROFILE
SEE SHT. 53 FOR -L2RPBD- PROFILE
SEE SHTS. 49 & 50 FOR -L2RPC- PROFILE
SEE SHT. 51 FOR -L2RPD- PROFILE
SEE SHT. 55 FOR -L2RPDB- PROFILE
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5
GRADING ONLY
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
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.
7/06/99
04-DEC-2007 15:15

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-6/2087.6 |
| S/W SHEET NO. | |

| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
|---|---|
| | |

CONST.REV.

S/W REV.

LANE FARMS, INC.
DB 965 PG 786
DB 874 PG 277
DB 965 PG 777

MATCHLINE -L2RPA- STA. 3+00 SEE SHEET 5

DAN R. CASEY
DB 358 PG. 13
DB 335 PG 212
DB 358 PG. 64

7 x 3 x 1
38 mm Skimmer
with 25 mm
Orifice Diameter
2 m weir
ID 6.7C

14 x 6 x 1
51 mm Skimmer
with 47 mm
Orifice Diameter
3 m weir
ID 6.8C

6 x 3 x 1
38 mm Skimmer
with 23 mm
Orifice Diameter
2 m weir
ID 6.9C

-L2RPA- PCC Sta.2+27.934

-L2RPA-

-L- POT Sta.98+17.207 =
-L2RPA- ST Sta.0+00.000 (14.2m LT.)

-L2RPA- SC Sta.0+60.000

BEGIN WW FENCE
-L- 472.35m
68m (305.12 ft.)

1.8 TONS CL B RIPRAP
W5.9 SM FIL FAB

2.7 TONS CL B RIPRAP
W8.4 SM FIL FAB

LATERAL BASE DITCH
SEE DETAIL E

SHOULDER BERM GUTTER
-L2RPA- STA. 0+00 TO 1+60

SHOULDER BERM GUTTER
-L- STA. 98+17 TO 100+30

LP
-L- STA. 94+27.474

BL- 5628 PNC (1+47.383=
-L- 99+26.409 (0.355m RT)
EL. 38.202

S 71° 31' 48.0" E

SPECIAL MEDIAN CUT DITCH
SEE DETAIL B

LATERAL BASE DITCH
SEE DETAIL R

PSH
SEE DETAIL F

26 x 10 x 1
76 mm Skimmer
with 76 mm
Orifice Diameter
4 m weir
ID 6.9C

END GRADING ONLY
BEGIN PAVING
-L- STA.97+50

-L2RPBD-

GRAD 3%

1.8 TONS CL B RIPRAP
W5.9 SM FIL FAB

PSH
SEE DETAIL F

SPECIAL MEDIAN CUT DITCH
SEE DETAIL B

BEGIN WW FENCE
-L2RPBD- 1+42.50
30m (98.42 ft.)

-L2RPBD- CS Sta.1+43.467

-L2RPBD- SC Sta.1+42.267

-L2RPBD- TS Sta.1+18.267

-L2RPBD- 1+00.000
30m (125.26 ft.)

-L- POT Sta.98+50.000 =
-L2RPBD- ST Sta.1+94.467 (17.2m RT.)

-L- 470.000
10m (360.39 ft.)

-L- 472.35m
60m (196.26 ft.)

-L- TS Sta.99+72.358

-L- 100.000
70m (229.66 ft.)

-L- 428.61
80m (196.85 ft.)

-L- 400.00
60m (196.85 ft.)

-L- 400.00
60m (196.85 ft.)

BL- 5630 PNC (1+48.681=
-L- 99+02.088 (3.963m RT)
EL. 38.454

-Y|- POT Sta.12+00.000

-L- 472.35m
60m (196.26 ft.)

-L- 471.63m
60m (196.85 ft.)

-L- SC Sta.100+32.358

END WW FENCE
-L- 125.00
38m (68.90 ft.)

HP
-L- STA. 101+57.710

BEGIN WW FENCE
-L- 103+63
60m (196.85 ft.)

SHOULDER BERM GUTTER
-L- STA. 101+92 TO 103+46

END WW FENCE
-L- 102.00
25m (68.90 ft.)

BEGIN WW FENCE
-L- 100.00
25m (68.90 ft.)

SPECIAL MEDIAN CUT DITCH
SEE DETAIL B

-L- 463.63
54.39m (178.45 ft.)

-L- 548.84
54.28m (178.23 ft.)

-L- 420.00
60m (196.85 ft.)

-L- 454.15
60m (196.85 ft.)

FILL SLOPES UNDERNEATH BRIDGE
OVER RAILROAD ARE NOT TO FILL
EXISTING DITCHES

BL-5568 PNC (1+71.540=
RR1556B POT 8+16.681=
-Y|- STA. 101+15.204 (0.88m RT)
EL. 38.922

-Y|- POC Sta.100+61.488 =
-Y|- POT Sta.101+97.530 =
Δ = 100°58'56.9"

-L- 400.00
10m (34.22 ft.)

-Y|- POT Sta.10+00.000

AMERICAS PROPANE
DB 1476 PG 227

VERA O'ROURKE
DB 163 PG 353

L. HARVEY & SON CO.
DB 887 PG 136

MATCHLINE -L- STA. 102+20 SEE SHEET 7

MATCHLINE -L- STA. 95+20 SEE SHEET 5

MATCHLINE -L2RPBD- 14+00 SEE SHEET 5

N 65° 22' 40.0" E

CAT-1

HDWL

LANE FARMS INC
30 x 7 x 1
76 mm Skimmer
with 66 mm
Orifice Diameter
4 m weir
ID 6.2C

ALLIGATOR
SEE DETAIL J

14 x 5 x 1
51 mm Skimmer
with 43 mm
Orifice Diameter
2 m weir
ID 6.1C

11 x 5 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 6.14C

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 6.1F

NO WATER'S EDGE SHOWN. PROPERTY LINE IS RUN
BEAVER DAMS IN THIS AREA. OF MILL BRANCH
EDGE IS CONTINUOUSLY CHANGING. CREEK!

GRADING ONLY

-L-
PI Sta. 100+12.358
Δ= 12°56'56.0" (LT.)
Lc = 50.000
Le = 40.000
Ls = 20.000
L = 95.218
Tt = 47.877
R = 1750.000
e = 0.035

BEGIN APPROACH SLAB -L- STA.100+24.431 LT.
BEGIN BRIDGE -L- STA.100+31.740 LT.
END BRIDGE -L- STA.100+85.86 LT.
END APPROACH SLAB -L- STA.100+94.126 LT.

BEGIN APPROACH SLAB -L- STA.100+26.820 RT.
BEGIN BRIDGE -L- STA.100+33.729 RT.
END BRIDGE -L- STA.100+90.235 RT.
END APPROACH SLAB -L- STA.100+97.546 RT.

STREAM
RESTORATION
SITE 03
(SEE SHEET 2V THRU 2Z)

12 x 4 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 6.12C

15 x 7 x 1
64 mm Skimmer
with 52 mm
Orifice Diameter
3 m weir
ID 6.13C

19 x 7 x 1
ID 6.3C

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

INSTALL FILTER FABRIC UNDER
TEMPORARY ROCK SILT CHECK(S)
TYPE A IN PERMITTED WETLANDS.

NOTE:
UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A
AND SILT BASIN TYPE - B
AS STILLING BASIN WHERE APPLICABLE.

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

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: See Detail Sheet 2-P for Interchange Curve Data.

NOTE: See Detail Sheet 2-T For Bridge Sketch Showing Pavement In Relation To Bridge Width

SEE SHTS. 33 & 34 FOR -L- PROFILE
SEE SHT. 46 FOR -L2RPA- PROFILE
SEE SHTS. 53 & 54 FOR -L2RPBD- PROFILE

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METRIC
PROJECT REFERENCE NO. R-2554BA
SHEET NO. EC-7/CONST.7
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
NC GRID NAD 83
MATCHLINE -L- STA. 102+20 SEE SHEET 6
MATCHLINE -Y5- STA. 11+80 SEE SHEET 29
MATCHLINE -Y2- STA. 24+40 SEE SHEET 28
MATCHLINE -Y2- STA. 17+00 SEE SHEET 27
MATCHLINE -SR5- STA. 12+40 SEE SHEET 8
MATCHLINE -Y2LPD- STA. 13+10 SEE SHEET 8
MATCHLINE -L- STA. 105+80 SEE SHEET 8
MATCHLINE STA. -Y2RPA- 14+05 SEE SHEET 8
Sta.10+04.35 CONSTRUCTION
-Y2B- POT Sta.10+00.000
-EY2- POT Sta.19+24.462
L. HARVEY & SON CO. DB 1187 PG 136
NORTH CAROLINA WAREHOUSING, LLC DB 1819 PG 801
ADELL S. EURE DB 511 PG 334
NORTH CAROLINA NATURAL GAS DB 499 PG 289
AMERIGAS PROPANE DB 1476 PG 227
VERA O'ROURKE DB 463 PG 353
EARL J. AYCOCK, JR. DB 1226 PG 294
PATE PROPERTY MANAGEMENT, LLC DB 2354 PG 341
SARAH SCOTT KIRBY & SALLY WADE SCOTT DB 02E PG 506
ELIZABETH H. BEST DB 596 PG 178 DB 1061 PG 253
JAMES T. ROWE DB 1251 PG 96 DB 1064 PG 769
KENNETH EDMUNDSON DB 1954 PG 875
ORLANDO MAURICE ATKINSON DB 2594 PG 812
KENNETH EDMUNDSON, JR. DB 1246 PG 421
ETHEL HARRIS DB 1061 PG 255
EMILY W. PRIVOTT DB 1486 PG 432
-L- Sta.102+54.215 = -EY2- Sta.15+85.386
-EY2- PT Sta.15+61.463
-EY2- PC Sta.14+57.042
-Y5- PT Sta.11+98.987
-Y5- PC Sta.12+46.195
-SR6- POT Sta.10+00.000
-Y2- POC Sta.24+00.000
-EY2- PT Sta.13+16.030
-Y2B- POT Sta.11+49.340 = -SR5- POT Sta.10+00.000 = -Y2- POC Sta.17+57.703
-Y2- POC Sta.19+07.703 = -Y2RPD- POT Sta.16+57.170
-Y2- POC Sta.19+15.203 = -Y2LPD- POT Sta.14+93.306
-L- POC Sta.103+80.709 = -Y2- POC Sta.20+96.030 Δ = 100°52'27.6"
-Y5- PT Sta.12+93.307
-Y2LPA- POT Sta.14+16.392 = -Y5- POT Sta.13+05.503 -Y2- POT Sta.22+72.703
-Y2RPA- POT Sta.16+65.848 = -Y2- Sta.22+81.203
-Y2- CS Sta.21+96.335
-Y2- ST Sta.22+41.335
-Y2- SC Sta.23+46.035
-SR6- PC Sta.10+23.350
-Y2- TS Sta.23+01.035
-Y2RPA- ST Sta.16+14.605
-SR6- PT Sta.10+84.262
-Y2LPA- ST Sta.13+46.600
-Y2RPA- CS Sta.15+69.605
-L- Sta.104+18.500 = -Y2LPA- CS Sta.10+00.000 (14.2m LT.)
-L- Sta.104+19.039 = -Y2LPD- PC Sta.10+00.000 (14.2m RT.)
-Y2RPD- ST Sta.15+90.915
-Y2LPD- ST Sta.14+08.197
-Y2LPD- TS Sta.10+65.000
-L- CS Sta.104+98.143
-Y2RPD- CS Sta.15+45.915
-SR5- PC Sta.10+20.000
-SR5- PT Sta.12+08.407
-Y2LPD- CS Sta.13+18.197
-Y2LPD- SC Sta.11+55.000
-Y2LPA- CS Sta.12+56.600
-Y2LPA- SC Sta.10+90.000
-Y2RPA- TS Sta.14+35.877
-Y2RPA- SC Sta.14+80.877
-L- ST Sta.105+58.143
-SR6- PC Sta.11+67.836
END CONSTRUCTION -SR6- POC Sta.11+77.203
13 x 6 x 1 2 m weir ID 7.9C (See Infiltration Basin Detail)
20 x 10 x 1 3 m weir ID 7.7C
16 x 8 x 1 3 m weir ID 7.8C (See Infiltration Basin Detail)
26 x 13 x 1 102 mm Skimmer with 82 mm Orifice Diameter 4 m weir ID 7.10C
19 x 9 x 1 64 mm Skimmer with 60 mm Orifice Diameter 4 m weir ID 7.12C
12 x 4 x 1 ID 7.11C
9 x 3 x 1 ID 7.1F
13 x 3 x 1 ID 7.2C
9 x 3 x 1 ID 7.6C
10 x 4 x 1 ID 7.5C
10 x 4 x 1 2 m weir ID 7.3C
8 x 4 x 1 2 m weir ID 7.4C
NO DETENTION INSIDE RAMP AREA ROAD TOO LOW
SPECIAL CUT DITCH SEE DETAIL A
SPECIAL CUT DITCH SEE DETAIL H
LATERAL V DITCH SEE DETAIL I
SHOULDER BERM GUTTER -L- STA. 104+08 TO -Y2LPA- STA. 11+00
TIE PROPOSED SHOULDER BERM GUTTER TO PROP.750mm CONC.C&G -Y2LPA- STA.10+80.000
PROJECTED TRAFFIC VOLUMES
US 117 BUS. 167/273; 214/387; 28/42; 10/16; 160/260; 28/36; 39/50; 243/415 US 70
2008 ADT / 2028 ADT (IN HUNDREDS)
PROJECTED TRAFFIC VOLUMES
160/260; 4/7; SR 1571 11/19; 7/12; 163/264 US 117 BUS.
2008 ADT / 2028 ADT (IN HUNDREDS)
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7
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
SEE SHTS.60 FOR -EY2- PROFILE
SEE SHTS.61 & 62 FOR -Y2- PROFILE
SEE SHT. 64 FOR -Y2RPA- PROFILE
SEE SHT. 65 FOR -Y2RPD- PROFILE
SEE SHT. 66 FOR -Y2LPA- PROFILE
SEE SHT. 67 FOR -Y2LPD- PROFILE
SEE SHT. 68 FOR -Y5- PROFILE
SEE SHT. 69 FOR -SR5- PROFILE
SEE SHT. 71 FOR -SR6- PROFILE
SEE SHT. 72 FOR -Y2B- PROFILE
SEE SHTS. 34 & 35 FOR -L- PROFILE
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
R/W 2/21/2006:UPDATED EXISTING PROPERTY LINES FOR PARCEL 7 AND NEW PARCEL 7A
03-DEC-2007 13:54

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-5/2007.6 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

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.

STREAM RESTORATION SITE 05 (SEE SHEET 2V, 2W AND 2AA THRU 2CC)

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

NO "A" BASIN REQUIRED. THE DRAINAGE IS MINIMAL.

| CUT DITCH -SR6- STA. 14+20-15+78 RT | CUT DITCH -L- STA. 108+40-109+00 LT | MED. CUT DITCH -L- STA. 108+00-108+29 M | MED. CUT DITCH -L- STA. 108+29-108+60 M | LAT. BASE DITCH -SR5- STA. 14+36-15+47 LT | MED. CUT DITCH -L- STA. 104+20-107+40 M |
|---|---|---|---|---|---|
| DA=0.919ha (89-LT) | DA=0.653ha (89-RT) | DA=0.114ha (90-LT) | DA=0.218ha (90-RT) | DA=0.410ha (69-DITCH) | DA=0.648ha (86) |
| Q2=0.163cms | Q2=0.123cms | Q2=0.020cms | Q2=0.034cms | Q2=0.059cms | Q3=0.113cms |
| V2=0.51ms | V2=0.43ms | V2=0.21ms | V2=0.35ms | V2=0.44ms | V3=0.56ms |
| SLOPE=0.300% | SLOPE=1.200% | SLOPE=0.831% | SLOPE=0.829% | SLOPE=0.432% | SLOPE=0.960% |
| SWALE REQ=69.2m | SWALE REQ=49.1m | SWALE REQ=8.6m | SWALE REQ=14.4m | SWALE REQ=30.9m | SWALE REQ=51.2m |
| SWALE AVAL=158.0m | SWALE AVAL=60.0m | SWALE AVAL=29.0m | SWALE AVAL=31.0m | SWALE AVAL=111.0m | SWALE AVAL=200.0m |
| (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) |

| CUT DITCH -Y2RPA- STA. 11+91-12+30 LT | CUT DITCH -Y2RPA- STA. 12+30-13+40 LT | LAT. V DITCH -L- STA. 105+40-107+40 LT | LAT. V DITCH -Y2RPD- STA. 13+00-14+20 RT | CUT & LAT. V DITCH -Y2RPD- STA. 12+30-13+00 RT |
|---|---|---|---|---|
| DA=0.092ha (85-DITCH RT) | DA=0.697ha (85-DITCH LT) | DA=1.355ha (85-DITCH LT) | DA=1.590ha (68-DITCH RT) | DA=0.828ha (66-DITCH LT) |
| Q2=0.033cms | Q2=0.077cms | Q2=0.150cms | Q2=0.151cms | Q2=0.146cms |
| V2=0.62ms | V2=0.33ms | V2=0.62ms | V2=0.43ms | V2=0.34ms |
| SLOPE=3.700% | SLOPE=0.300% | SLOPE=0.300% | SLOPE=0.300% | SLOPE=0.300% & 1.300% |
| SWALE REQ=14.5m | SWALE REQ=52.5m | SWALE REQ=102.1m | SWALE REQ=119.8m | SWALE REQ=62.4m |
| SWALE AVAL=39.0m | SWALE AVAL=70.0m | SWALE AVAL=200.0m | SWALE AVAL=120.0m | SWALE AVAL=70.0m |
| (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (DA DOES NOT ENTER BUFFER DIRECTLY) | (0.752ha IN DITCH) (DA DOES NOT ENTER BUFFER DIRECTLY) |




MATCHLINE -SR5- STA. 12+40 SEE SHEET 7
MATCHLINE -Y2LPD- STA. 13+10 SEE SHEET 7
MATCHLINE -Y2RPD- STA. 13+40 SEE SHEET 7
MATCHLINE -L- STA. 105+80 SEE SHEET 7
MATCHLINE -Y2RPA- STA. 14+05 SEE SHEET 7
MATCHLINE -L- STA. 109+60 SEE SHEET 9

HP -SR5- STA. 12+41.632
HP -Y2PD- STA. 14+68.777
LP -L- STA. 105+25.600
LP -SR5- STA. 14+36.519
LP -Y2RPD- STA. 12+91.963
LP -SR6- STA. 14+58.182
LP -Y2RPA- STA. 11+79.999
LP -L- STA. 108+44.965

EMILY W. PRIVOTT DB 1486 PG 432 (9)
EMILY W. PRIVOTT (9Z)
DAVID L. SCOTT DB 1859 PG 653 (IB)
ARDETH L. SCOTT DB 1551PG 55 (IIA)
DEBORAH SCOTT FOY DB 1551PG 51 (8C)
"NO CLAIM" VELMA EDWARDS DB 332 PG 302

-SR5- PC Sta.12+91.963
-Y2RPD- CS Sta.12+73.888
-Y2RPD- ST Sta.13+38.888
-Y2RPD- TS Sta.13+88.883
-Y2RPD- SC Sta.14+33.883
-SR5- PCC Sta.16+46.672
-Y2RPD- SC Sta.10+65.000
-Y2RPA- ST Sta.13+60.877
-Y2RPA- CS Sta.12+95.877
-Y2RPA- TS Sta.10+70.000
-Y2RPA- SC Sta.11+35.000
-SR6- PC Sta.14+98.511
-SR6- PT Sta.14+79.511
-SR6- PT Sta.15+93.304
BEGIN CONSTRUCTION -SR6- POC Sta.14+38.928

22 x 11 x 1 76 mm Skimmer with 71 mm Orifice Diameter 4 m weir ID 8.1C
24 x 11 x 1 76 mm Skimmer with 74 mm Orifice Diameter 4 m weir ID 8.1C
21 x 10 x 1 76 mm Skimmer with 66 mm Orifice Diameter 4 m weir ID 8.8C
10 x 4 x 1 38 mm Skimmer with 35 mm Orifice Diameter 2 m weir ID 8.9C
10 x 4 x 1 38 mm Skimmer with 35 mm Orifice Diameter 2 m weir ID 8.7C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 8.4C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 8.5C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 8.4C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 8.2C
14 x 6 x 1 51 mm Skimmer with 47 mm Orifice Diameter 3 m weir ID 8.2C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 8.10C

SEE SHT. 69 FOR -SR5- PROFILE
SEE SHT. 71 FOR -SR6- PROFILE
SEE SHT. 67 FOR -Y2LPD- PROFILE
SEE SHT. 64 FOR -Y2RPA- PROFILE
SEE SHT. 65 FOR -Y2RPD- PROFILE
SEE SHT. 35 FOR -L- PROFILE

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: See Detail Sheet 2-Q for Interchange Curve Data.


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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-9/CONST.9 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC

5 0 10

NC GRID NAD 83

ARDETH L. SCOTT
DB 1551 PG 55
(11A)

-L- POT Sta.109+70.000=
-Y2RPA- POT Sta.110+00.000
Δ = 2° 18' 00.0" (14.2m Lt.)

HP
-SR6- STA. 17+48.077

DEBORAH SCOTT FOY
DB 1551 PG 57
(11C)

-SR6- POT Sta.18+25.220

-SR6- PC Sta.18+77.655

END CONSTRUCTION
-SR6- POT Sta.19+30.000

-SR6- PT Sta.19+11.460

HP
-L- STA. 109+76.922

N 85° 15' 20.0" E -SR6-

PROPOSED SOIL DRIVE

JOYCE P. CRUMPLER
DB 904 PG 420
(13)

GRADE TO DRAIN

SPECIAL CUT DITCH SEE DETAIL H

N 85° 15' 20.0" E -L-

FS
2GI

1.8 TONS CL B RIPRAP W/5.9 SM FIL FAB

90m TAPER

HP
-Y2RPD- STA. 10+15.046

R/W CURVE DATA
RADIUS :230.856m
CHORD BEARING :S 8°12'40" E LT.
CHORD DISTANCE :35.759 m

29 x 8 x 1
ID 9.1C

R/W CURVE DATA
RADIUS :159.144m
CHORD BEARING :S 83°50'05" E RT.
CHORD DISTANCE :48.818m

7 x 3.5 x 1
38 mm Skimmer
with 27 mm
Orifice Diameter
2 m weir
ID 9.2C

ACCELERATION LANE

CHRISTY COLLINS
(12A)

8 x 4 x 1
ID 9.1C

-L- POT Sta.109+96.000=
-Y2RPD- TS Sta.110+00.00
(14.2m Rt.)

SPECIAL CUT DITCH SEE DETAIL A

SPECIAL CUT DITCH SEE DETAIL A

SR 1571 TOMMY'S RD

-SR5-

RUINS

-SR5- POC Sta.18+02.000
END CONSTRUCTION

-SR5- PT Sta.18+82.401

-SR5- PC Sta.19+04.672

EMILY W. PRIVOTT
DB 1486 PG 432
(9)

DEPT. OF TRANS.
DB 2167 PG 629
(915)

12 x 4 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 9.4C

WILLIAM WHITE
(17)

S 11° 58' 11.0" E

MATCHLINE -L- STA. 109+60 SEE SHEET 8

MATCHLINE -L- STA. 112+80 SEE SHEET 10

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9

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

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Bentapsite AT REV22145

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-10/CONST.10 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC 5 0 10

JOYCE P. CRUMPLER
DB 904 PG 420
13

NC GRID NAD 83

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.2C

HOWELL BRANCH

CAREY R. HAM
DB 1521 PG 708
28

18 x 7 x 1
64 mm Skimmer
with 57 mm
Orifice Diameter
4 m weir
ID 10.3C

MATCHLINE –L– STA. 112+80 SEE SHEET 9

MATCHLINE –L– STA. 116+40 SEE SHEET 11

SHOULDER BERM GUTTER
–L– STA. 113+97 TO 114+12.32

SPECIAL CUT DITCH
SEE DETAIL H

SPECIAL MEDIAN CUT–L–
DITCH SEE DETAIL B

N 85° 15' 20.00" E

TYPE M350

GRAU 350

SPECIAL CUT DITCH
SEE DETAIL A

END WW FENCE

BEG. WW FENCE

PSH
SEE DETAIL F

GRADE TO
DRAIN

TOE PROTECTION
SEE DETAIL Q

4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

SHOULDER BERM GUTTER
–L– STA. 113+97 TO 114+12.32

LP
–L– STA. 114+00.714

20 x 8 x 1
64 mm Skimmer
with 58 mm
Orifice Diameter
3 m weir
ID 10.1C

17
WILLIAM WHITE

BDO
800 CSPA
2 ELBOWS

4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

–L–
PIs Sta 116+87.637
Θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667

–L– TS Sta.116+34.304

207.000
N85°44'58"W

ORCHARD

JAMES TORNAGE
EL
DE

–SR5– PT Sta.20+05.544

S 75° 20' 33.6" E

–SR5– PC Sta.20+55.017

–SR5– RT Sta.21+15.247

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.5C

CONSERVATION
EASEMENT

IMPERVIOUS
DIKE

REMOVE EXIST
CULVERT AND
ROADBED FOR
MITIGATION
CREDIT

2400mm
CMP

TES

PROP. 3.6m GATE

GRADE TO
DRAIN

BEGIN CONSTRUCTION
–SR5– POC Sta.20+60.000

26
JAMES W. HUBBLE
DB 1171 PG 405

Cox Seml–Circle

SEE CONSERVATION EASEMENT INSET

26
CAROLYN B. MORRIS
AND THOMAS BARDIN
ESTATE FILE 02E-245

27
PATRICIA GABRIL
WB 1930 PG 16

–SR5– PC Sta.22+77.38

S 87°24'09.9" E

END CONSTRUCTION
–SR5– POT Sta.22+45.00

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.4C

571 TOMMY'S RD 6.4 BST

RETAIN
375mm CONC

–SR5– +94.000
27m (88.58 ft)

WILLIAM W. WHITE
DB 1137 PG 620
26

HOWELL BRANCH

Cox Seml–Circle

–SR5– +100.000
35.000m (110.67 ft)

–SR5– +69.000
64.000m (19.51 ft)

–SR5– +32.000
76.000m (23.16 ft)

PROPOSED
CONSERVATION
EASEMENT

CONSERVATION EASEMENT INSET

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NOTE:
UTILIZE SKIMMER BASIN
AS STILLING BASIN WHERE APPLICABLE.

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

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| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-11/CONST.11 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.

-L-
PIs Sta 116+87.637
Θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667
PI Sta 123+83.422
Δ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

NC GRID NAD 83

28
CAREY R. HAM
DB 1621 PG 708

-Y7- POT Sta.12+80.000
END CONSTRUCTION

-L- POC Sta.118+92.556 =
-Y7- POT Sta.12+17.434
Δ = 86°19'25.9"

-L- SC Sta.117+14.304

MATCHLINE -L- STA. 116+40 SEE SHEET 10

MATCHLINE -L- STA. 119+80 SEE SHEET 12

21 x 10 x 1
3.3 m weir
ID 11.3C
(See Infiltration Basin Detail)

29
J. D. GUPTA
PG 459

0.15m DECK DRAINS AT 1.8m CENTERS

0.15m DECK DRAINS AT 7m CENTERS

END WW FENCE

BEG. WW FENCE
(7.2m (56.43 ft.))

PAVE SHOULDERS ON -Y7- ACCORDING TO STD.610.03

CAT-1

B-77

PSRM

GRADE TO DRAIN

TYPE M350

GRAU 350

2GI

LATERAL V DITCH SEE DETAIL I

4.5 TONS CL B RIPRAP W/11.7 SM FIL FAB

1.8 TONS CL B RIPRAP W/5.9 SM FIL FAB

SHOULDER BERM GUTTER END WW FENCE -L- STA. 117+59 TO 118+69

2 ELBOWS 400 CSP

LATERAL V DITCH SEE DETAIL C

SHOULDER BERM GUTTER -L- STA. 119+14 TO 121+20

MARJORIE M. HESTER
DB 1439 PG 801

BEG. WW FENCE

HP
-L- STA. 119+20.290

10 x 2 x 1
ID 11.2C

-Y7- POT Sta.11+60.000
BEGIN CONSTRUCTION

22 x 10 x 1
76 mm Skimmer
with 68 mm
Orifice Diameter
4 m weir
ID 11.1C

29A
JORIE M. HESTER
1439 PG 801

ISBKD

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

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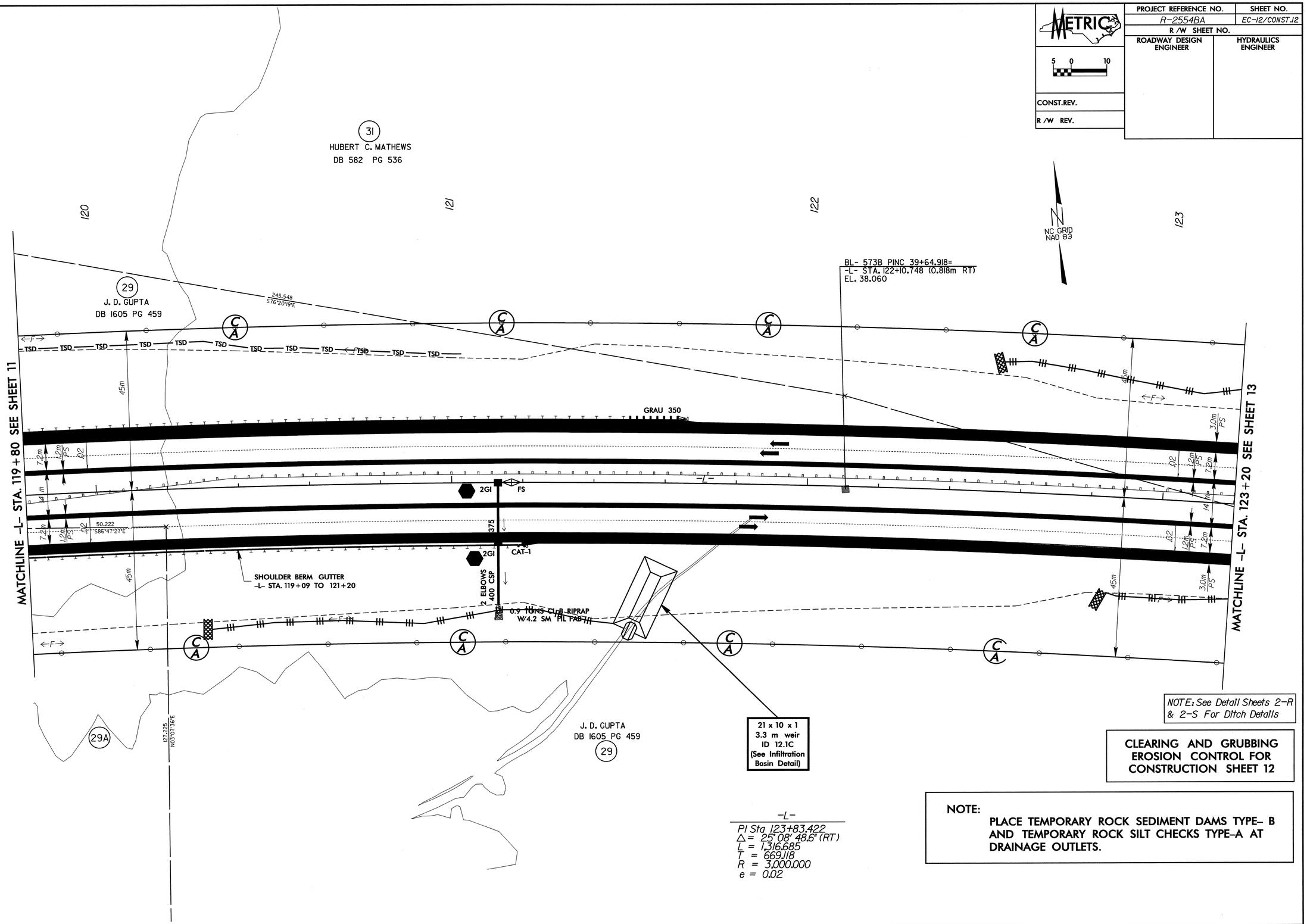
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-12/CONST.12 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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.

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brennapoole AT RENV221445

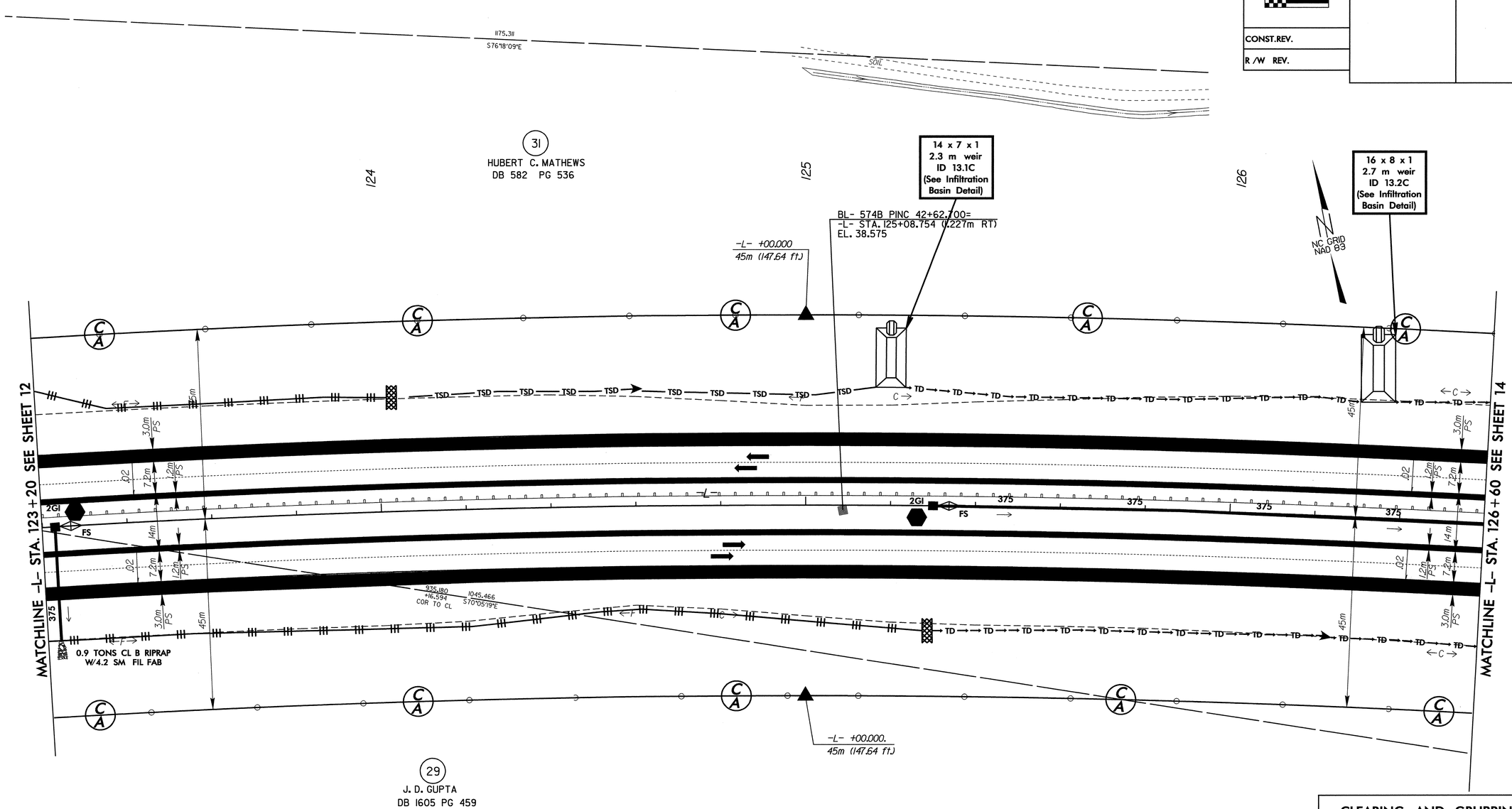
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-13/CONST.13 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-L-

PI Sta 123+83.422
$\Delta$ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 13**

**NOTE:**

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

8/17/99

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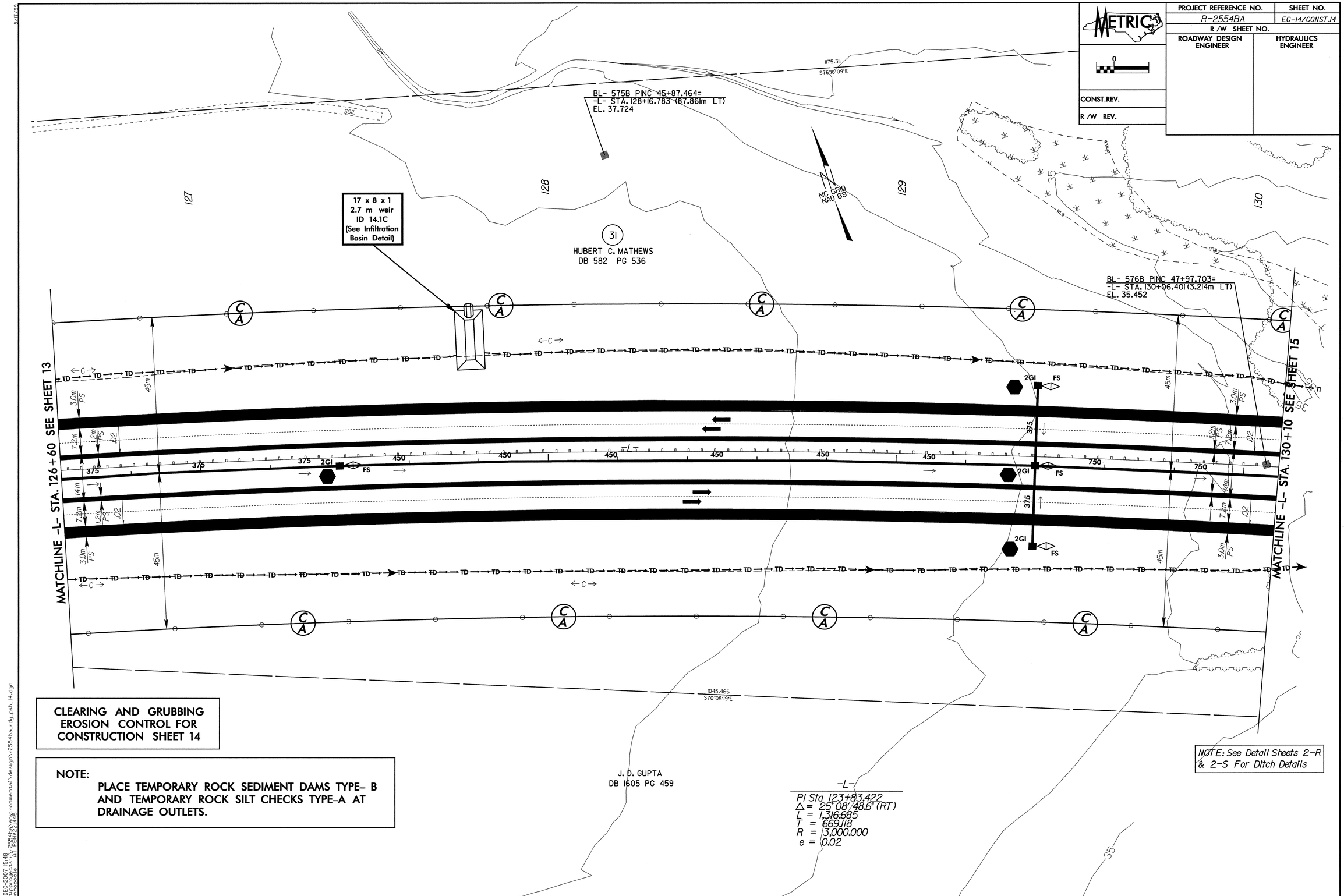
Brennapoole AT REN022145




CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14

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

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brennapoole AT RENV22144S

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

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

METRIC
5 0 10

CONST.REV.

R /W REV.

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-15/CONST.15 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 15.3C

13 x 6 x 1
2 m weir
ID 15.1C
(See Infiltration
Basin Detail)

13 x 6 x 1
51 mm Skimmer
with 45 mm
Orifice Diameter
2 m weir
ID 15.4C

HUBERT C. MATHEWS
DB 582 PG 536
31

RUTH
DB 14

STONEY CREEK

MC GRID
NAD 83

BEG. WW FENCE

241.676
N70°55'31"W

5.372

S 68°04'11"E

65.808
S 68°04'11"E

SHOULDER BERM GUTTER
–L– STA. 131+24 TO 131+45

SPECIAL MEDIAN CUT 2GI
DITCH SEE DETAIL B

TYPE M350

GRAU 350

LATERAL BASE DITCH
SEE DETAIL E

7.3 TONS CL B RIPRAP
W/17.6 SM FIL FAB

LATERAL BASE
DITCH SEE
DETAIL L

0.15m DECK DRAINS
AT 3.6m CENTERS

26.6 TONS CL 1 RIPRAP
W/22.4 SM FIL FAB

0.9 TONS CL B RIPRAP
W/4.2 SM FIL FAB

TOE PROTECTION
SEE DETAIL Q

LP
–L– STA. 131+28.663
–L– ST Sta.131+10.989

–L– CS Sta.130+30.989

J. D. GUPTA
DB 1605 PG 459

SHERMAN E. BEST
DB 1534 PG 253
32

44 x 12 x 1
102 mm Skimmer
with 102 mm
Orifice Diameter
4 m weir
ID 15.1F

PI Sta 123+83.422
Δ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = .02

PIs Sta 130+57.656
Θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667

NOTE: See Detail Sheets 2–R & 2–S For Ditch Details

MATCHLINE –L– STA. 130+20 SEE SHEET 14

MATCHLINE –L– STA. 133+60 SEE SHEET 16

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE – A AND SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

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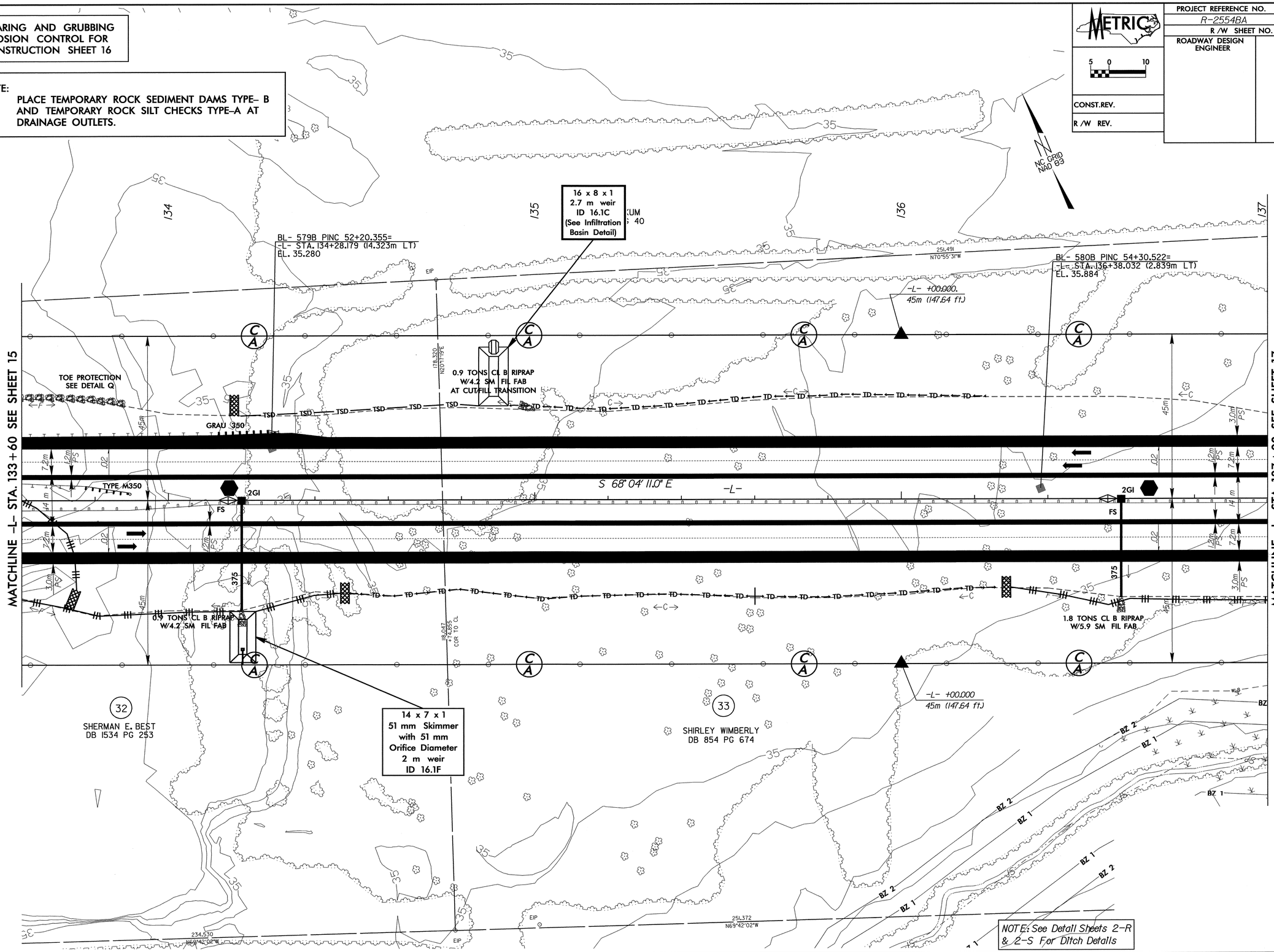
prmcdonald

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

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

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-16/CONST.16 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

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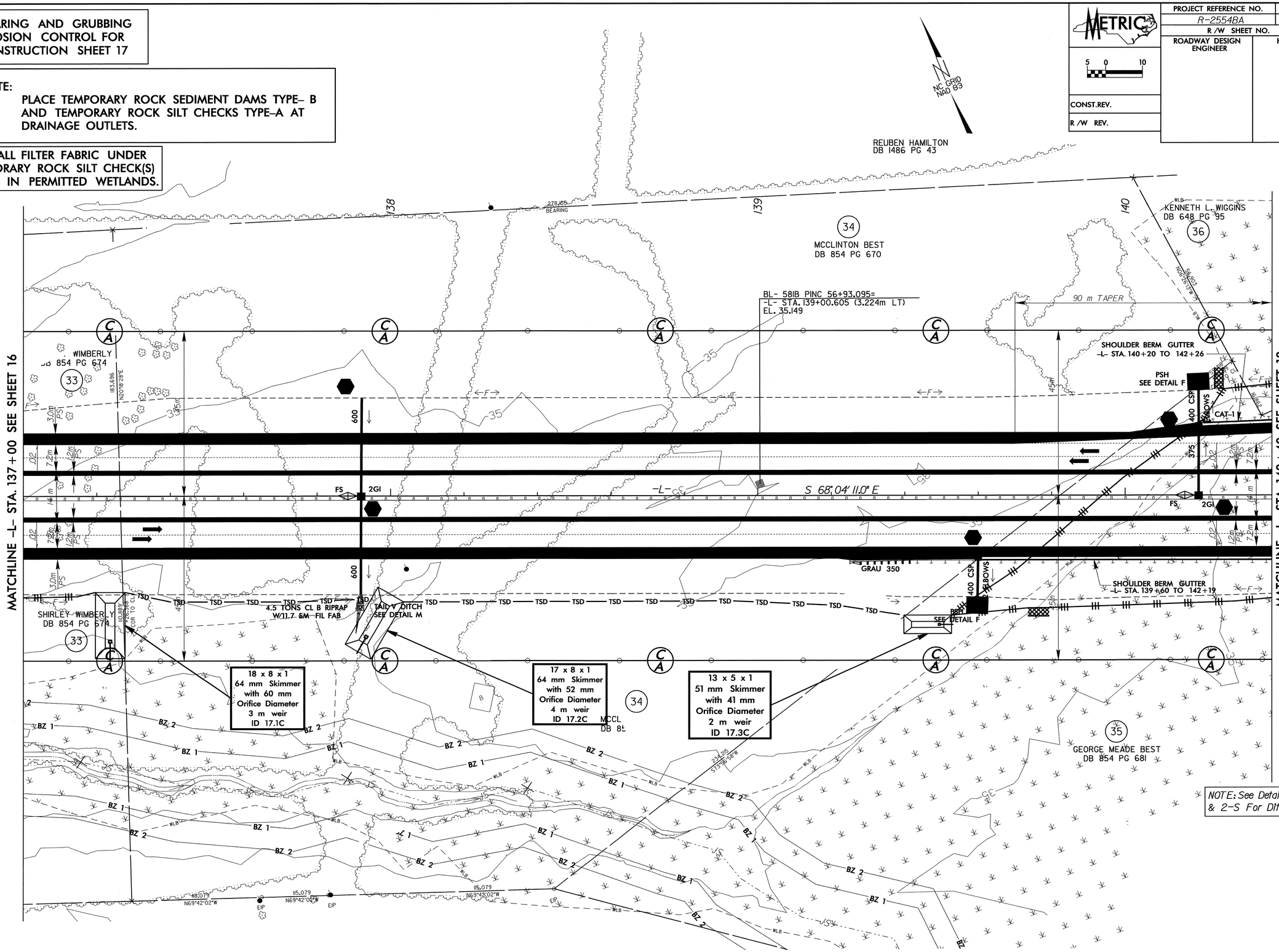
Idwelston AT REN\22149

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

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

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-17/CONST.17 |
| | R/W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | | |
| R/W REV. | | |




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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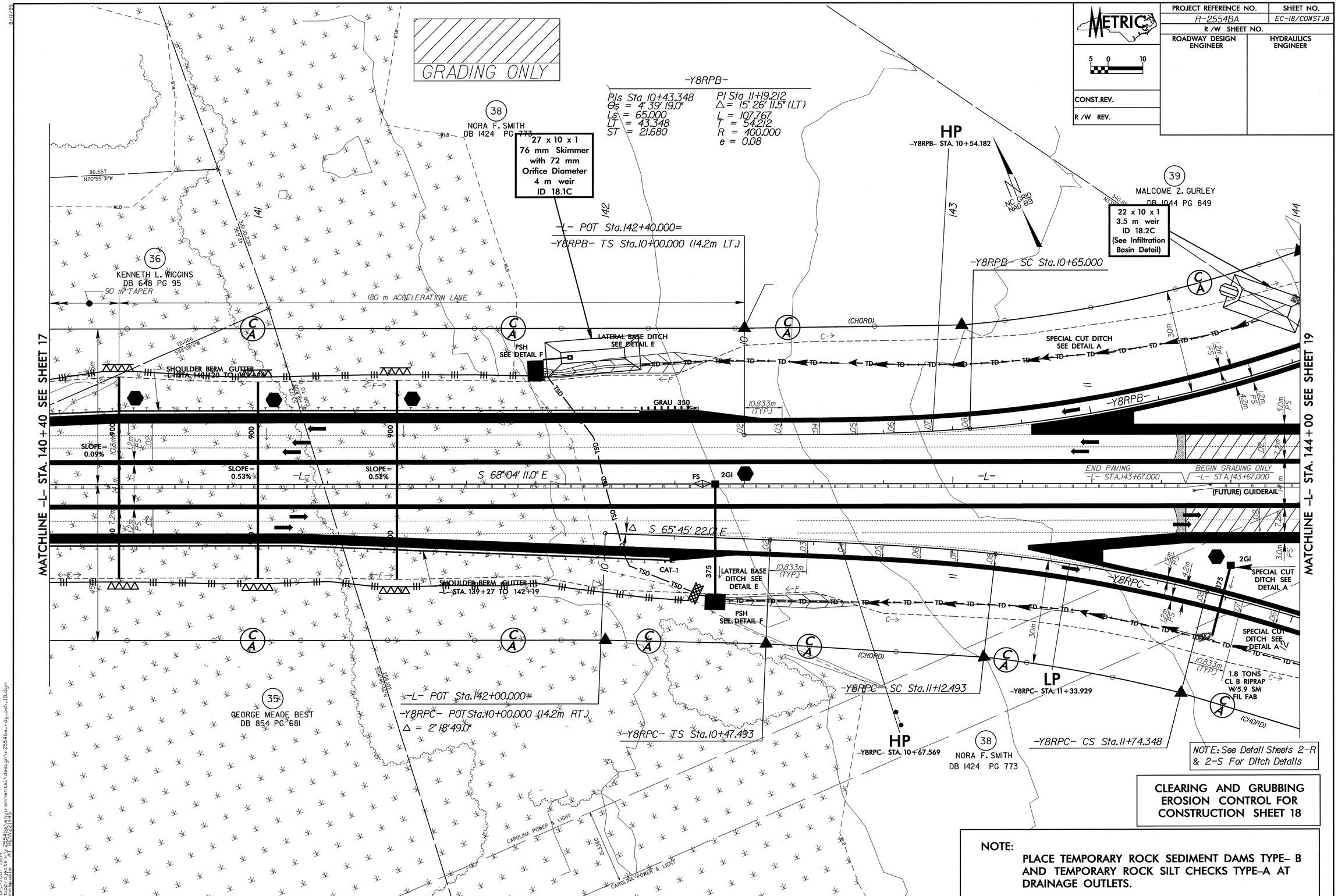
brennapoole AT RENV221445




CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

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

PROJECT REFERENCE NO.
R-2554BA
SHEET NO.
EC-19/CONST.19
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
METRIC
CONST.REV.
R/W REV.
-Y8RPB-
PI Sta 11+19.212 Δ = 15° 26' 11.5" (LT) L = 107.767 T = 54.212 R = 400.000 e = 0.08
PIs Sta 11+94.448 Θs = 40° 39' 19.0" Ls = 65.000 LT = 43.348 ST = 21.680
PIs Sta 13+24.981 Θs = 5° 36' 18.1" Ls = 45.000 LT = 30.015 ST = 15.014
PI Sta 13+73.533 Δ = 16° 36' 24.3" (RT) L = 66.664 T = 33.567 R = 230.000 e = 0.065
PIs Sta 14+21.644 Θs = 5° 36' 18.1" Ls = 45.000 LT = 30.015 ST = 15.014
Θs = 4° 08' 16.9" Ls = 65.000 LT = 43.345 ST = 21.677
Δ = 33° 21' 38.1" (RT) L = 262.013 T = 134.838 R = 450.000 e = 0.08
Ls = 65.000 LT = 43.345 ST = 21.677
MATCHLINE -Y8- STA. 17+80 SEE SHEET 31
MATCHLINE -L- STA. 144+00 SEE SHEET 18
MATCHLINE -L- STA. 151+00 SEE SHEET 20
MATCHLINE -Y8- STA. 14+00 SEE SHEET 30
-Y8- POT Sta.17+07.000 -Y8RPA- Sta.14+71.245 -Y8RPB- Sta.14+78.566
-Y8- POT Sta.15+85.032 = -L- POT Sta.146+62.803 Δ = 72°10'39.0"
POT -Y8- Sta.14+65.000 = -Y8RPC- Sta.14+40.558 -Y8RPD- Sta.15+27.301
-Y8RPB- CS Sta.11+72.767
-Y8RPB- ST Sta.12+37.767
-Y8RPB- TS Sta.12+94.966
-Y8RPB- SC Sta.13+39.966
-Y8RPB- CS Sta.14+06.630
-Y8RPB- ST Sta.14+51.630
-Y8RPA- ST Sta.14+39.493
-Y8RPA- CS Sta.13+74.493
-Y8RPA- SC Sta.11+12.479
-Y8RPC- ST Sta.12+39.348
-L- TS Sta.146+90.311
-L- SC Sta.147+75.311
-Y8RPD- TS Sta.13+12.469
-Y8RPD- SC Sta.13+57.469
-Y8RPD- CS Sta.14+50.214
-Y8RPD- ST Sta.14+95.214
-Y8RPD- ST Sta.12+82.469
-Y8RPD- CS Sta.12+17.469
-Y8RPD- SC Sta.11+60.000
-Y8RPD- TS Sta.10+95.000
-Y8RPD- ST Sta.10+65.000
LP -Y8RPB- STA. 11+70.652
HP -L- STA. 144+74.609
HP -Y8- STA. 15+48.572
HP -Y8RPD- STA. 11+42.941
LP -Y8RPD- STA. 12+22.075
10 x 5 x 1 1.7 m weir ID 19.2C (See Infiltration Basin Detail)
42 x 18 x 1 (2) 76 mm Skimmers with 76 mm Orifice Diameters 6 m weir ID 19.1C
20 x 10 x 1 76 mm Skimmer with 65 mm Orifice Diameter 4 m weir ID 19.6C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 19.7C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 19.8C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 19.9C
21 x 10 x 1 76 mm Skimmer with 66 mm Orifice Diameter 4 m weir ID 19.3C
10 x 5 x 1 38 mm Skimmer with 36 mm Orifice Diameter 2 m weir ID 19.4C
16 x 8 x 1 64 mm Skimmer with 57 mm Orifice Diameter 4 m weir ID 19.5C
10 x 5 x 1 38 mm Skimmer with 36 mm Orifice Diameter 2 m weir ID 19.10C
10 x 4 x 1 38 mm Skimmer with 36 mm Orifice Diameter 2 m weir ID 19.11C
A
B
C
D
N 87° 10' 59.5" E
S 68° 04' 11.0" E
S 49° 36' 15.9" E
N 43° 49' 48.1" W
N 39° 45' 10.0" E
N 65° 14' 50.0" W
S 80° 26' 19.6" W
N 85° 31' 38.3" W
SPECIAL CUT DITCH SEE DETAIL A
SPECIAL MEDIAN CUT DITCH SEE DETAIL B
LATERAL V DITCH SEE DETAIL C
LATERAL BASE DITCH SEE DETAIL L
GRADING ONLY
(FUTURE) GUIDERAIL
(FUTURE) ATTENUATOR
END PROPOSED PAVEMENT BEGIN GRADING ONLY -Y8RPA- STA.14+52.000
END PROPOSED PAVEMENT BEGIN GRADING ONLY -Y8RPD- STA.15+03.000
INVERT CAN BE RAISED TO 36.000 WITH A BERM FOR WATER RETENTION IN GORE AREA
7.3 TONS CL B RIPRAP W/17.6 SM FIL FAB
1.8 TONS CL B RIPRAP W/5.9 SY FIL FAB
10.0 TONS CL B RIPRAP W/23.4 SM FIL FAB RIPRAP ON BANKS ONLY
TIE DITCH ALONG FALSE CUT TO SPECIAL CUT DITCH
PROP. FALSE CUT SEE STD.225.07
125mm MONOLITHIC CONCRETE ISLAND
120m STORAGE LENGTH
-Y8RPC-
PIs Sta 11+96.025 Θs = 4° 08' 16.9" Ls = 65.000 LT = 43.345 ST = 21.677
GRADING ONLY
US 70
SR 1556 (WAYNE MEMORIAL)
2008 ADT
2028 ADT
(IN HUNDREDS)
PROJECTED TRAFFIC VOLUMES
BEGIN APPROACH SLAB -Y8- STA. 15+51.480
BEGIN BRIDGE -Y8- STA. 15+55.732
END BRIDGE -L- STA. 16+13.632
END APPROACH SLAB -Y8- STA. 16+17.884
-L-
PIs Sta 147+46.982 Θs = 2° 05' 24.7" Ls = 85.000 LT = 56.671 ST = 28.337
PI Sta 149+88.602 Δ = 20° 44' 59.6" (LT) L = 421.909 T = 213.291 R = 1,165.000 e = 0.05
-Y8RPD-
PIs Sta 10+21.668 Θs = 1° 34' 44.9" Ls = 65.000 LT = 43.335 ST = 21.668
PIs Sta 11+38.343 Θs = 3° 43' 27.2" Ls = 65.000 LT = 43.343 ST = 21.675
PI Sta 11+88.766 Δ = 6° 35' 07.6" (LT) L = 57.469 T = 28.766 R = 500.000 e = 0.075
PIs Sta 12+39.144 Θs = 3° 43' 27.2" Ls = 65.000 LT = 43.343 ST = 21.675
PIs Sta 13+42.484 Θs = 5° 36' 18.1" Ls = 45.000 LT = 30.015 ST = 15.014
PI Sta 14+04.480 Δ = 23° 06' 14.2" (RT) L = 92.745 T = 47.011 R = 230.000 e = 0.065
PIs Sta 14+65.228 Θs = 5° 36' 18.1" Ls = 45.000 LT = 30.015 ST = 15.014
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19
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
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-20/CONST.20 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-L- POC Sta.151+70.000=
-Y8RPA- POT Sta.10+00.000 (14.2 m LT)

-L- POC Sta.152+00.000
-Y18- PCSta.10+00.000 (35.3 m LT)

-Y18- POT Sta.11+26.926

-Y18- PT Sta.10+63.659

-L- ST Sta.152+82.221

-Y8RPA- TS Sta.10+47.479

-L- +82.221
45m (147.64 ft)

-L- +02.660
12.2m (56.43 ft)

-L- POT Sta.153+83.247
END RIGHT-OF-WAY ACQUISITION

-L- POC Sta.151+19.886=
-Y8RPD- CS Sta.10+00.000 (14.2m RT)

-L- CS Sta.151+97.221

LP

-Y8RPA-
PI Sta 10+90.824
Δs = 4° 08' 16.9"
Ls = 65.000
LT = 43.345
ST = 21.677

-Y18-
PI Sta 10+31.949
Δ = 12° 09' 28.7" (LT)
L = 63.659
T = 31.949
R = 300.000

-L-
PI Sta 149+88.602
Δ = 20° 44' 59.6" (LT)
L = 421.909
T = 213.291
R = 1165.000
e = 0.05

PI Sta 152+25.558
Δs = 2° 05' 24.7"
Ls = 85.000
LT = 56.671
ST = 28.337

-Y8RPD-
PI Sta 10+21.668
Δs = 1° 34' 44.9"
Ls = 65.000
LT = 43.335
ST = 21.668

GRADING ONLY

ALBERT ONEIL SMITH
DB 827 PG 742

NCDOT
DB 1472 PG 411

JAMES ONEIL SMITH
DB 1801 PG 785

LINDA A. CORRIERE
DB 1461 PG 655

NCDOT
DB 1744 PG 533

DAVID KENNEDY
DB 823 PG 873
DB 2190 PG 674

JAMES A. ADAMS, JR.
DB 2206 PG 608

ROBERT R. EARNEST
DB 834 PG 484
DB 795 PG 726

CARRIE MAE LEWIS
PC E SLIDE 21

ROBERT R. EARNEST
DB 1216 PG 878

JAMES A. GILLS
DB 1537 PG 791

NCDOT
DB 1780 PG 666

TAIL BASE DITCH SEE DETAIL J

SPECIAL CUT DITCH SEE DETAIL H

SPECIAL CUT DITCH SEE DETAIL A

SPECIAL MEDIAN CUT DITCH SEE DETAIL B

TOE PROTECTION SEE DETAIL G

PSH SEE DETAIL F

FUTURE SHOULDER BERM GUTTER -L- STA. 152+88 TO 153+02

FUTURE SHOULDER BERM GUTTER -L- STA. 152+79 TO 152+92

FUTURE SHOULDER BERM GUTTER -L- STA. 152+72 TO 152+85

(FUTURE) CAT-1

(FUTURE) GUIDERAIL

(FUTURE) TYPE M350

(FUTURE) GRAU 350

(FUTURE) B-77

CUT/FILL TRANSITION
1.8 TONS CL B RIPRAP
W/5.9 SM FIL FAB

7.3 TONS CL B RIPRAP
W/17.6 SM FIL FAB

300m ACCELERATION LANE

END WW FENCE

21 x 7 x 1
64 mm Skimmer
with 64 mm
Orifice Diameter
3 m weir
ID 20.1C

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 20.3C

21 x 10 x 1
76 mm Skimmer
with 66 mm
Orifice Diameter
4 m weir
ID 20.2C

NOTE:
UTILIZE TEMPORARY ROCK SILT CHECK TYPE – A AND SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

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

STA. 152+90.000 –L– END TIP PROJECT R–2554BA

STA. 153+02.765 –L– END CONSTRUCTI

MATCHLINE –L– STA. 151+00 SEE SHEET 19

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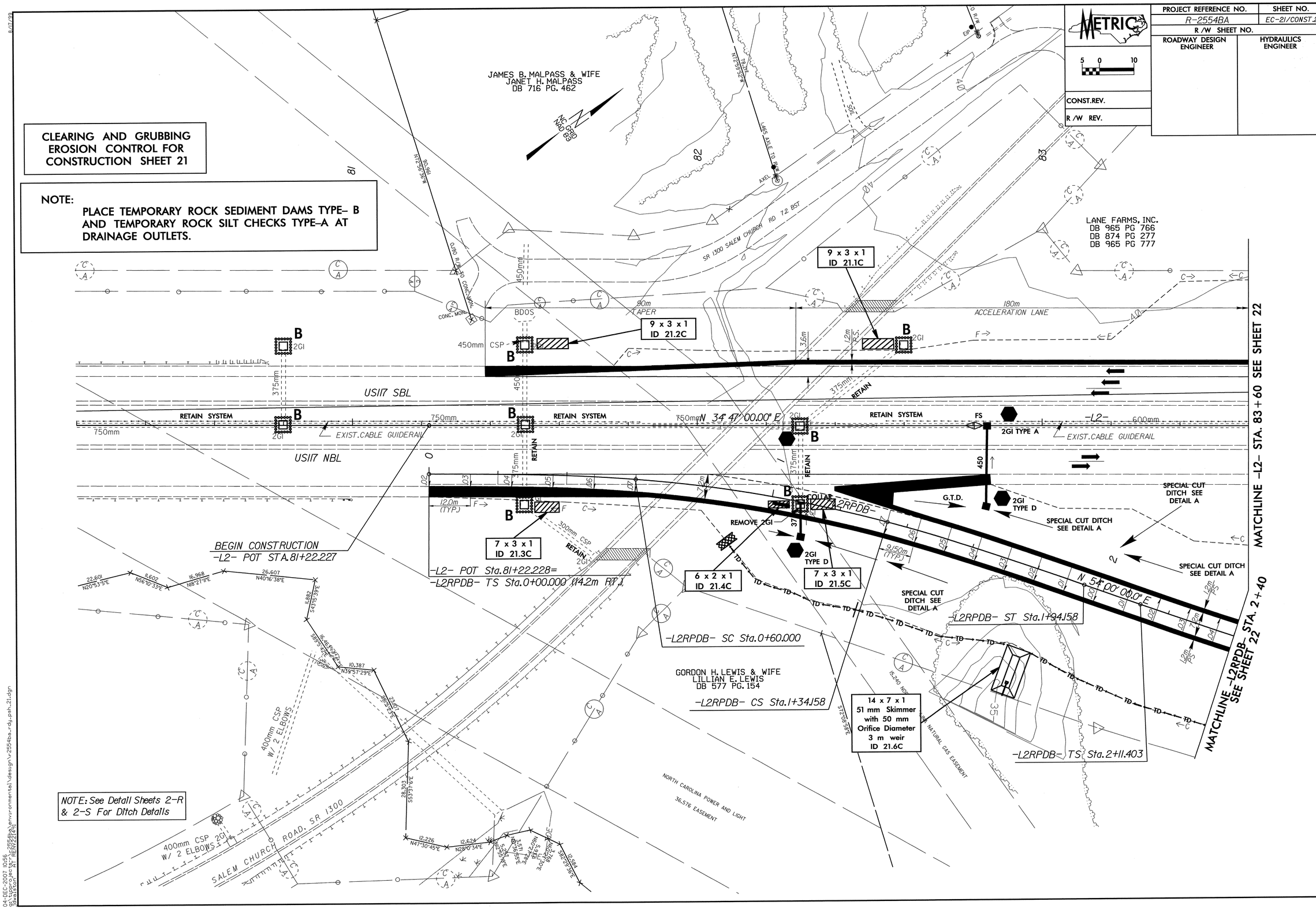

METRIC
PROJECT REFERENCE NO.
R-2554BA
SHEET NO.
EC-21/CONST.21
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.
JAMES B. MALPASS & WIFE
JANET H. MALPASS
DB 716 PG. 462
NC GRID NAD 83
LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777
SR 1300 SALEM CHURCH RD 72 BST
9 x 3 x 1
ID 21.1C
9 x 3 x 1
ID 21.2C
90m TAPER
180m ACCELERATION LANE
BDOS
450mm CSP
USI17 SBL
USI17 NBL
RETAIN SYSTEM
EXIST.CABLE GUIDERAIL
N 34° 47' 00.00" E
2GI TYPE A
2GI TYPE D
G.T.D.
SPECIAL CUT DITCH SEE DETAIL A
MATCHLINE -L2- STA. 83+60 SEE SHEET 22
MATCHLINE -L2RPDB- STA. 2+40 SEE SHEET 22
BEGIN CONSTRUCTION
-L2- POT STA.81+22.227
-L2- POT Sta.81+22.228=
-L2RPDB- TS Sta.0+00.000 (14.2m RT.)
7 x 3 x 1
ID 21.3C
6 x 2 x 1
ID 21.4C
7 x 3 x 1
ID 21.5C
REMOVE 2GI
-L2RPDB- SC Sta.0+60.000
-L2RPDB- ST Sta.1+94.158
-L2RPDB- CS Sta.1+34.158
-L2RPDB- TS Sta.2+11.403
GORDON H. LEWIS & WIFE
LILLIAN E. LEWIS
DB 577 PG. 154
14 x 7 x 1
51 mm Skimmer with 50 mm Orifice Diameter
3 m weir
ID 21.6C
NORTH CAROLINA POWER AND LIGHT
36.576 EASEMENT
400mm CSP W/ 2 ELBOWS
SALEM CHURCH ROAD, SR 1300
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-22/CONST.22 |
| CONST.REV. | R /W SHEET NO. | |
| R /W REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

MATCHLINE -L2RPC- STA. 7+45 SEE SHEET 5

MATCHLINE -L2- STA. 85+80 SEE SHEET 5

MATCHLINE -L2RPDB- STA. 4+80 SEE SHEET 5

MATCHLINE -L2RPD- STA. 1+70 SEE SHEET 5

US117 SBL

US117 NBL

SEE CROSS-SECTIONS A FOR MEDIAN DITCH

TEMP. PLUG UNTIL FUTURE RAMP

TYPE A 2GI

FS

CAT-1

-L2RPC-

-L2-

-L2RPDB-

-L2RPD-

BEGIN GRADING & PAVING
END GRADING ONLY
-L2RPC- Sta.8+12

BEGIN GRADING ONLY
END GRADING & PAVING
-L2RPDB- Sta.4+17.700

N 34° 47' 00" E

N 34° 32' 27.0" E

450mm REMOVE

GRAU 350

-L2RPD- TS Sta.1+39.163

-L2RPD- ST Sta.0+60.000

-L2RPC- CS Sta.8+57.355

-L2RPDB- POC Sta.3+13.291 =
-L2RPD- CS Sta.0+00.000

-L2RPDB- SC Sta.2+71.403

-L2- POT Sta.84+08.543 =
-L2RPC- ST Sta.9+17.355 (14.2m LT.)

-L2RPDB-

GRADING ONLY

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NC GRID NAD 83

LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777

11 x 4 x 1
ID 22.1C

11 x 4 x 1
ID 22.2C

10 x 3 x 1
ID 22.4C

SPECIAL CUT DITCH SEE DETAIL A

INV IN= 37.324

INV OUT= 36.667

7 TONS CL B RIPRAP W/8.4 SM FF FAB

15 x 7 x 1
64 mm Skimmer
with 52 mm
Orifice Diameter
3 m weir
ID 22.2F

LEWIS &
AN E. LEWIS
DB 577 PG. 154

400mm CSP

BDOS

375mm

RETAIN

EXIST. CABLE GUIDERAIL

180m ACCELERATION LANE

A-A

B-B

A-A
1.3m
0.0m
1.3m
0.6m
UPSTREAM

B-B
7.8m
0.0m
0.8m (6:1)
1.5m (2:1)
0.6m
DOWNST'

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 22

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

MATCHLINE -L2- STA.83+60 SEE SHEET 21

MATCHLINE -L2RPDB- STA. 2+40 SEE SHEET 21

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jwalcox AT NCDOT

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-23/CONST.23 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

MATCHLINE -L2RPB- STA. 3+80 SEE SHEET 5

-L2RPBD-

-L2RPBD- POC Sta.3+20.000=
-L2RPB- PC Sta.0+00.000

THURMAN RAY DEAVER & WIFE
MARGARET LOUISE DEAVER
DB 431 PG. 73

THURMAN R. DEAVER
DB 942 PG. 418

THURMAN RAY DEAVER & WIFE
MARGARET LOUISE DEAVER
DB 851 PG. 217

N33°41'11"E 1287.1'

S67°02'43"E

2GI 375mm 2GI
400mm CSP
W/2 ELBOWS

EXIST. LAT. V DITCH
TIE TO PROP. DITCH

LP
RAMPBD- STA. 2+14.868

LATERAL V DITCH
SEE DETAIL C

ERMA H. THOMPSON
DB 99 PG 192

-L2RPBD- SC Sta.0+60.000

14 x 3 x 1
ID 23.4C

SPECIAL CUT DITCH
SEE DETAIL A

SPECIAL CUT DITCH
SEE DETAIL A

11 x 3 x 1
ID 23.3C

10 x 3 x 1
ID 23.5C

2.7 TONS CL B RIPRAP
W/8.3 SM FIL FAB

GRAU 350

MATCHLINE -L2- STA. 93+20 SEE SHEET 5

EXIST. CABLE GUIDERAIL

EXIST. IMPACT ATTENUATORS

-L2-

BELFAST RD. SR313

RETAIN
450mm

REMOVE 2GI

RETAIN

REMOVE

-L2RPBD-

USII7 SBL

-L2-

-L2RPA-

USII7 NBL

-L2-

EXIST CABLE GUIDERAIL

COLLAR

REMOVE EXIST. RIPRAP
4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

LP
RAMPA- STA. 5+37.297

CAT-1

375mm 2GI
2GI
400mm
CSP W/2
ELBOWS

REMOVE

2GI
TYPE D

SPECIAL CUT
DITCH SEE
DETAIL A

180m ACCELERATION LANE

MATCHLINE -L2- STA. 96+40 SEE SHEET 24

MATCHLINE -L2RPA- STA. 4+50 SEE SHEET 5

-L2RPA- CS Sta.5+95.762

-L2- POT Sta.95+25.199 =
-L2RPA- ST Sta.6+55.762 (14.2m RT)

9 x 3 x 1
38 mm Skimmer
with 29 mm
Orifice Diameter
2 m weir
ID 23.2C

17 x 6 x 1
51 mm Skimmer
with 51 mm
Orifice Diameter
2 m weir
ID 23.1C

GRADING ONLY

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

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

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jcrompton
REVISED

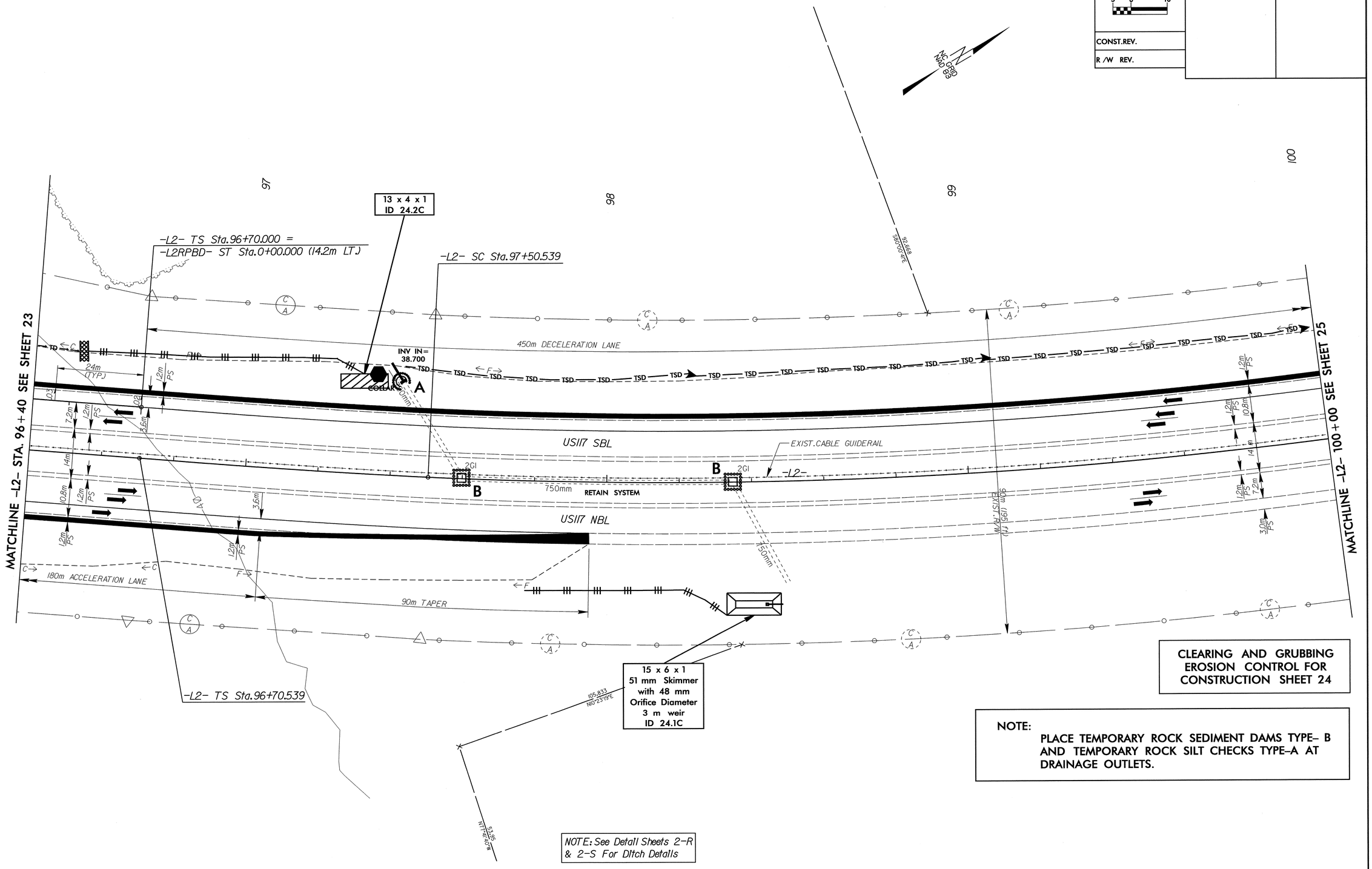
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-24/CONST.24 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.




CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 24

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

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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jdwalston AT REN22149

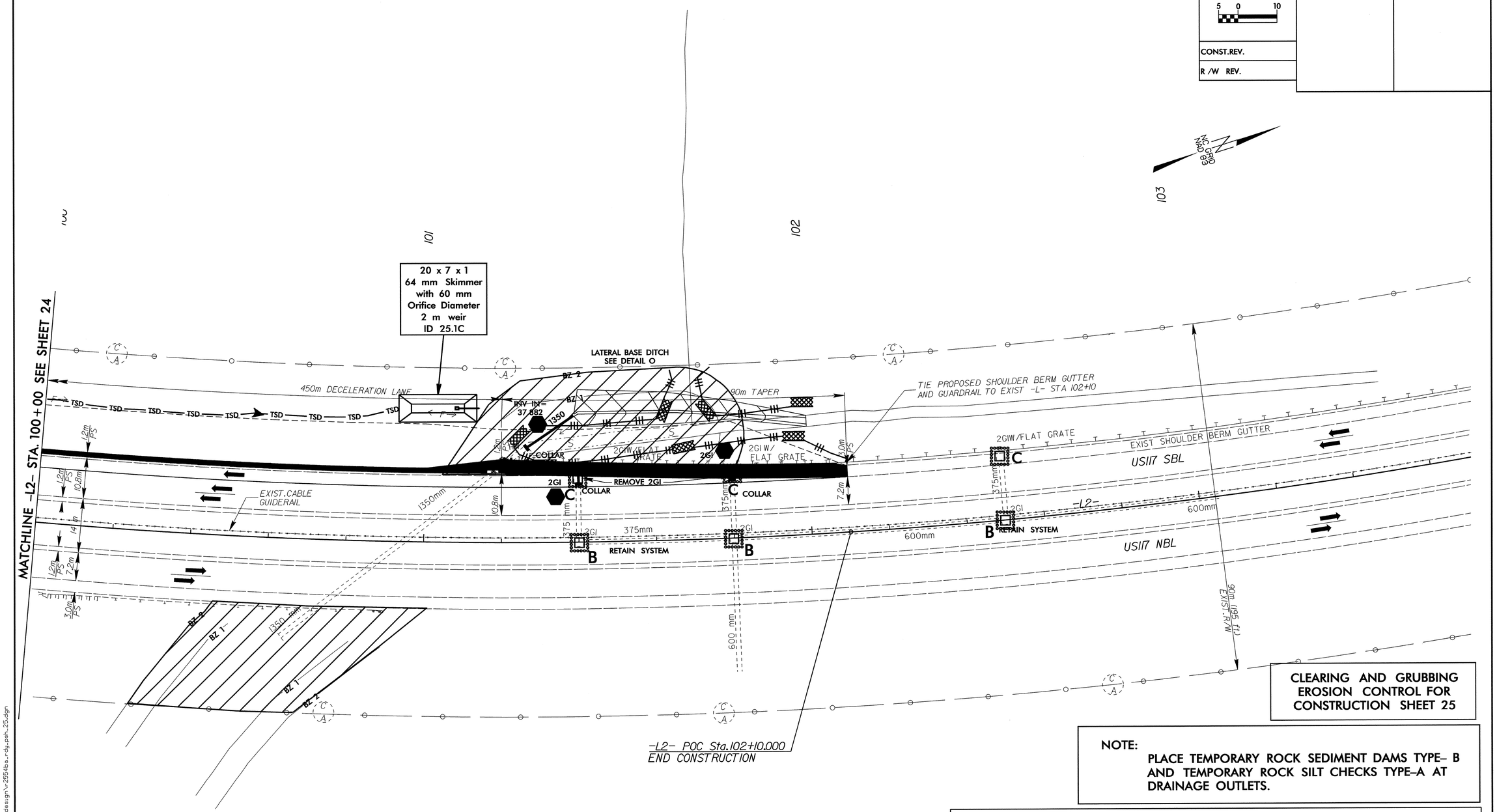
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-25/CONST.25 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.




CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 25

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

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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jdwalston AT RENV22149

8/17/93

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-26/CONST.26 |
| CONST.REV. | R /W SHEET NO. | |
| R /W REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

-Y2C-
PI Sta 10+33.323
△ = 18° 27' 57.5" (RT)
L = 24.172
T = 12.192
R = 75.000

-EY2-
PI Sta 12+09.420
△ = 9° 25' 07.271" (RT)
L = 213.703
T = 52.268
R = 1000.000

-EY2-
PI Sta 15+09.310
△ = 5° 59' 02.430" (LT)
L = 104.393
T = 107.093
R = 1300.000

-EY2-
PI Sta 24+30.612
△ = 5° 20' 00.714" (RT)
L = 195.484
T = 97.813
R = 2100.000

NC GRID NAD 83

-Y2- TS Sta.10+87.084

-Y2- SC Sta.11+32.084

25

T. A. LOVING & CO.
DB 376 PG 406
DB 376 PG 404
DB 315 PG 31

26

-Y2- POT Sta.10+00.000
-EY2- POT Sta.26+58.734

-EY2- PT Sta.25+28.283

LP
-Y2- STA. 10+95.333

-Y2- +87.084
12m (39.37 ft.)
9.144m (29.99 ft)

-Y2- +32.011
18m (59.06ft)

-Y2- +32.084
12m (39.37 ft.)

-Y2- +80.000
13.986m (45.89 ft.)

-Y2- +00.000
10.400m (34.12 ft.)

-Y2C- +08.000
5m (16.40 ft.)

-Y2C- +18.000
6m (19.685 ftJ

-Y2C- PTSta.10+45.303

HP
-Y2- STA. 11+68.481

-Y2C- +28.786
10.400m (34.12 ft.)

-Y2C- POTSta.10+50.427=
-Y2- POTSta.12+22.000

-Y2C- POTSta.10+00.000

-Y2C- BEGIN CONSTRUCTION

-Y2C- +08.000
5m (16.40ft)

REMOVE EXIST. CULVERT
EXCAVATE TO
MATCH EXIST. CHANNEL

-Y2C- PCSta.10+21.131

-Y2C- +20.000
7m (22.97 ft)

-Y2C- +28.658
13.500m (44.29 ft)

SPECIAL CUT DITCH
SEE DETAIL A

EX.R/W CURVE DATA
RADIUS : 2090.856m LT.
CHORD BEARING : N 03°23'13" E
CHORD DISTANCE : 143.618m

-Y2- +14.928
51.844m (170.09 ft)

N 6° 45' 09.5" E

US 117 37.9 BST

EXIST R/W

-Y2- +60.000
ON R/W

-Y2- +87.084
15m (49.21 ft.)
9.144m (29.99 ft)

-Y2- +32.084
18m (59.06 ft.)

-Y2- +32.084
10m (32.08 ft.)

-Y2- +00.000
12m (39.37 ft.)

-Y2- +00.000
15m (49.21 ft.)

-Y2- +44.000
27m (88.58ft)

-Y2- +17.660
18.5m (60.70ft)

-Y2- +77.000
25m (82.02ft)

-Y2- +78.00
37m (121.39ft)

-Y2- +90.000
36m (118.11ft)

-Y2- +90.000
30m (98.43ft)

-Y2- ST Sta.12+90.193

-Y2- CS Sta.12+45.193

JAMES EDWARD (24Z)
DB 2202 PG 560
(24)

MANFRED TEACHEY (23Z)
DB 1175 PG 676
(23)

MILTON HEAD (22Z)
DB 564 PG 364
(22)

JOHN M. MERRITT (21)
E 03E PG 667

JOHN M. MERRITT (21Z)

JOHN M. MERRITT
E 03E PG 667
(20)

ANDREWS FARMS
OF WAYNE CO. INC.
DB 1037 PG 181
DB 1193 PG 737
(16)

BEGIN CONSTRUCTION
-Y2- TS Sta.10+87.084

MATCHLINE -Y2- STA. 13+35 SEE SHEET 27

LATERAL V DITCH
SEE DETAIL I

SPECIAL CUT DITCH
SEE DETAIL A

PROP. RCBC
2.4m X 1.8m

PSH
SEE DETAIL F

LEVEL SPREADERS
12m X 1m
0.09 cms

8 x 3 x 1
38 mm Skimmer
with 27 mm
Orifice Diameter
2 m weir
ID 26.2C

6 x 3 x 1
ID 26.3C

11 x 4 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 26.1F

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 26

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

NOTE: 240m Uniform Transition -Y2- Sta.10+90 (2 lanes) to Sta.13+30 (5 lanes).

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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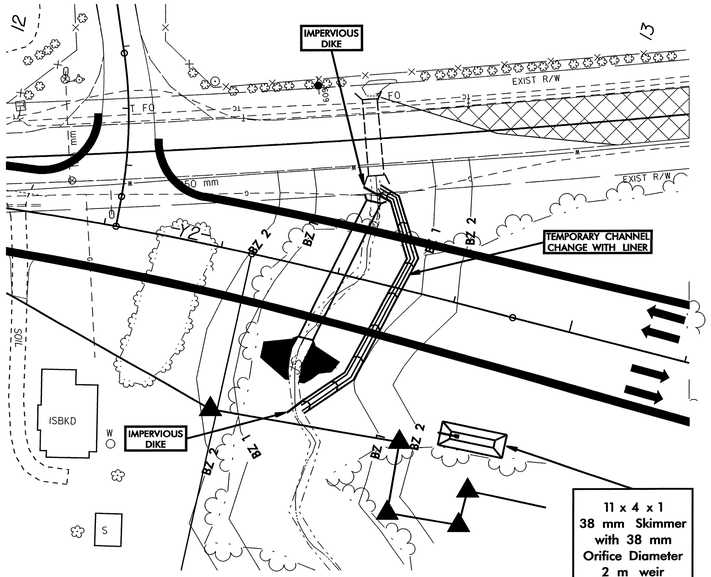
(RENTZ4.PS)

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-27/CONST.26 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

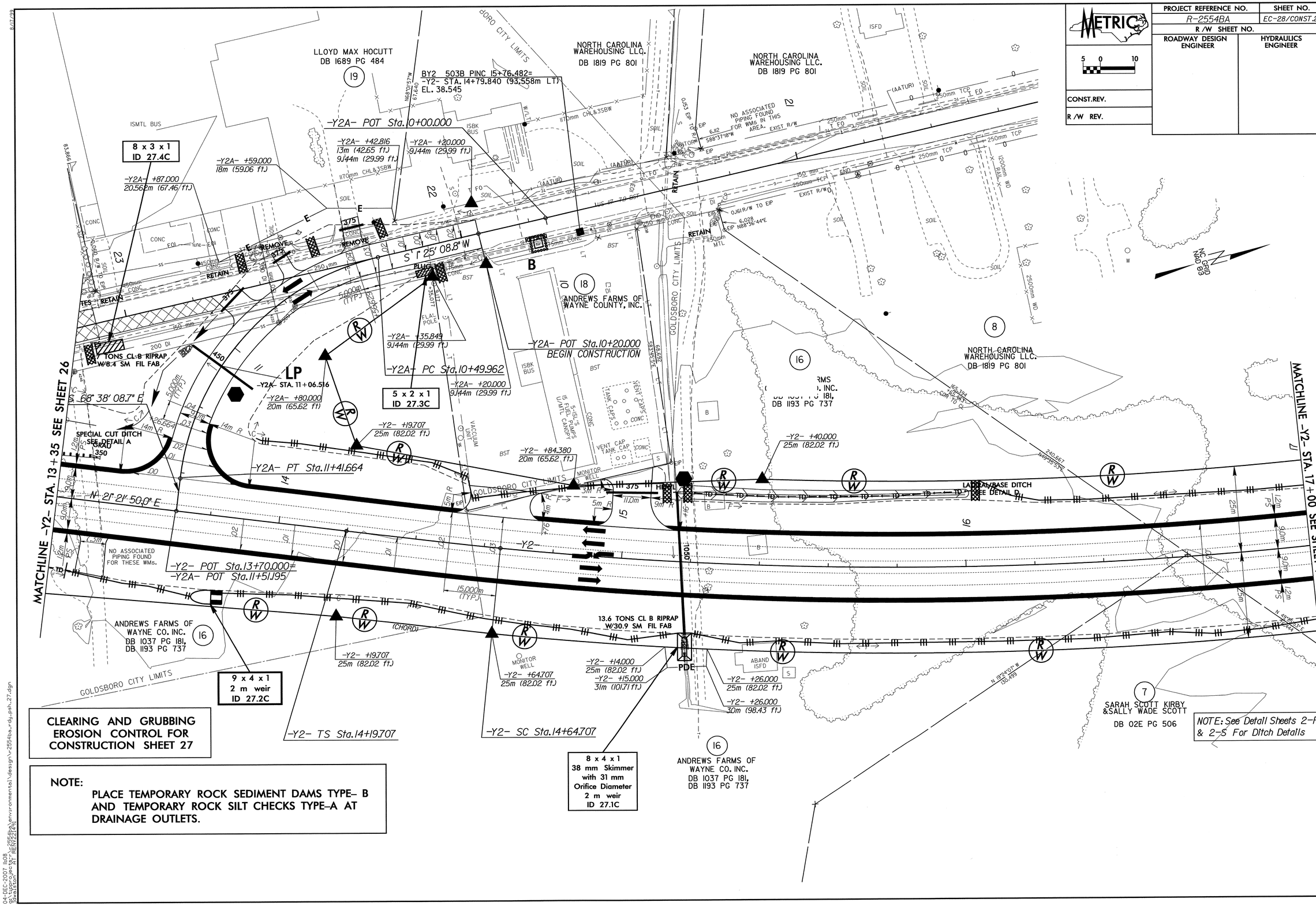
# CULVERT CONSTRUCTION SEQUENCE STA. 12 + 60 –Y2–




## CONSTRUCTION SEQUENCE (STA. 12 + 60)

1. CONSTRUCT SKIMMER BASIN (11 x 4 x 1) AND UTILIZE AS STILLING BASIN.
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2 M BASE, 1 M DEEP, 1.5:1 SIDESLOPES).
3. CONSTRUCT IMPERVIOUS DIKES.
4. CONSTRUCT CULVERT.
5. DIVERT WATER THROUGH CULVERT.
6. COMPLETE ROADWAY.

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-28/CONST.27 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 27

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

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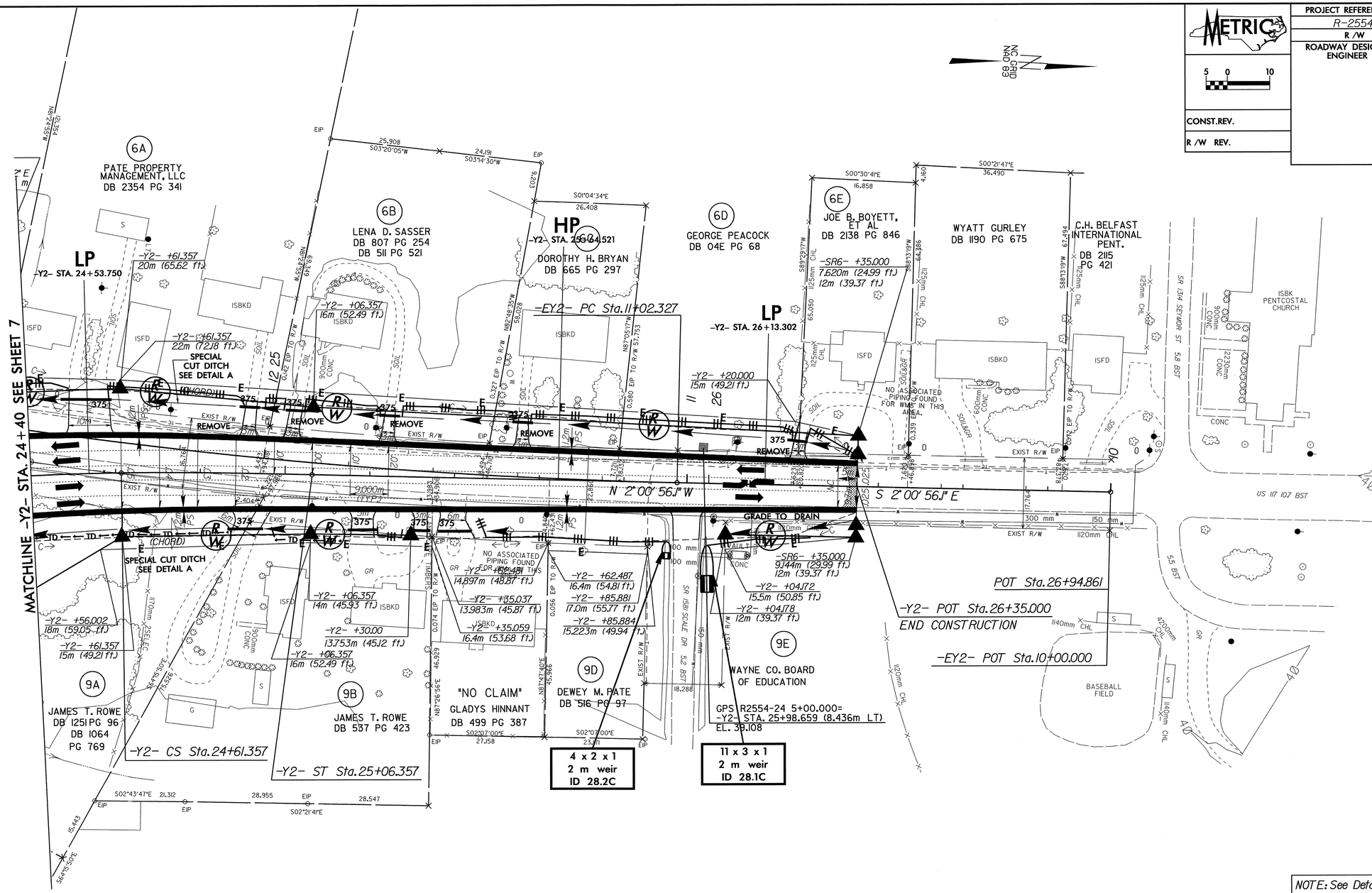
jdwalston AT RENV22141

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-29/CONST.28 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

METRIC




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 28**

**NOTE:**

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

NOTE: 205m Uniform Transition -Y2- Sta.24+30 (5 Lanes) to Sta.26+35 (3 Lanes).

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jdwalston AT RENV2214

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 29

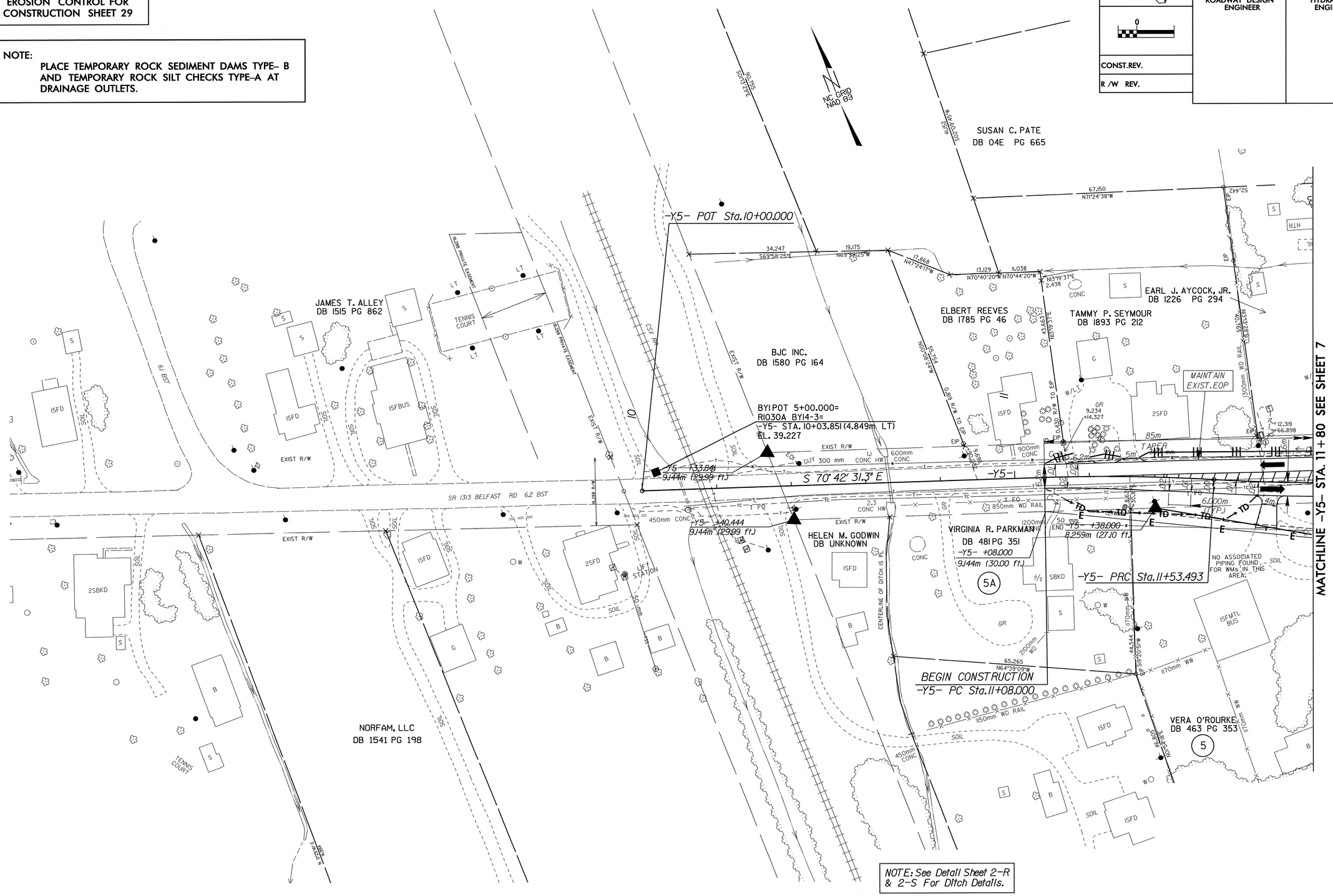
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-30/CONST.29 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

CONST.REV.

R /W REV.




NOTE: See Detail Sheet 2-R & 2-S For Ditch Details.

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dwalston AT RENV22141

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-31/CONST.30 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC 5 0 10

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 30**

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

38
NORA F. SMITH
DB 1424 PG 773

NC GRID NAD 83

*BEGIN CONSTRUCTION*
*-Y8- POT Sta.10+70.000*

GPS R2554-32 -PINC 15+77.128=
BY10 PINC 6+57.298=
-Y8- STA. 11+00.820 (8.732m RT)
EL. 38.836

*-Y8- PC Sta.11+35.847*

**9 x 3 x 1**
**2 m weir**
**ID 30.1F**

*-Y8- +60.000*
*9.250 (30.35 ft)*
**SPECIAL CUT DITCH SEE DETAIL A**

*-Y8- +00.000*
*18m (59.05 ft)*
*EXIST.R/W*

*20m TAPER*

*-Y8- +29.355*
*18m (59.05 ft)*

*-Y8- PT Sta.12+29.355*

BY8 522B -PINC 14+01.539=
-Y8- STA. 12+75.720 (6.650m LT)
EL. 40.016

*-Y8- +00.000*
*21m (68.90 ft)*

*-Y8- +00.000*
*18m (59.05 ft)*
**END WW FENCE**

*-Y8- +79.000*
*51m (167.32 ft)*

EASEMENT FOR DETOUR
SEE DETAIL SHEET 2-N

*-Y8- +01.16*
*18m (59.05 ftJ*
*EXIST.R/W*

*-Y8- +00.000*
*18m (59.05 ft)*
**BEG. WW FENCE**

*45m TAPER*

*85m STORAGE LENGTH*

*-Y8-*
*PI Sta. 11+82.602*
*Δ = 0° 35' 43.0" (LT)*
*L = 93.508*
*T = 46.754*
*R = 9,000.000*
*e = NC*

*NOTE: See Detail Sheets 2-R & 2-S For Ditch Details*

**MATCHLINE STA. -Y8- 14+00 SEE SHEET 19**

GHAZI CAMILLE AL-AWAR
DB 1970 PG 637

**9 x 3 x 1**
**2 m weir**
**ID 30.2C**

BRIAN TEACHEY
DB 1277 PG 896

62
CORNERSTONE DEVELOPMENT
PROPERTIES OF WAYNE COUNTY, LLC
DB 2027 PG 643

54
MARY T. SMITH
DB 777 PG 449

53
WINFORD E. LANGSTON
DB 1134 PG 309

52
LEON J. TEACHEY
DB 777 PG 447

51
HAROLD T. ANDERSON
DB 1035 PG 355
DB 1044 PG 847

43
MALCOLM E. GURLEY
DB 648 PG 416
DB 937 PG 807
DB 1044 PG 849

SR 1556 WAYNE MEMORIAL 6.7 BST
SR 1571 TOMMY'S RD 6.4 BST
GOLDSBORO CITY LIMITS
N 40° 20' 53.0" E
N 39° 45' 10.0" E
RETAIN
REMOVE
REPEATER
MTL CANOPY
ISM BUS
CARPORT
HTR
ISFD
ISBKD
POOL
RUINS
PUMP TANKS
CONC. MON
EXIST R/W
SPECIAL CUT DITCH SEE DETAIL A
SOUTHERN BELL SUB-STATION

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R-2554BA REVISED PSH

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-32/CONST.31 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

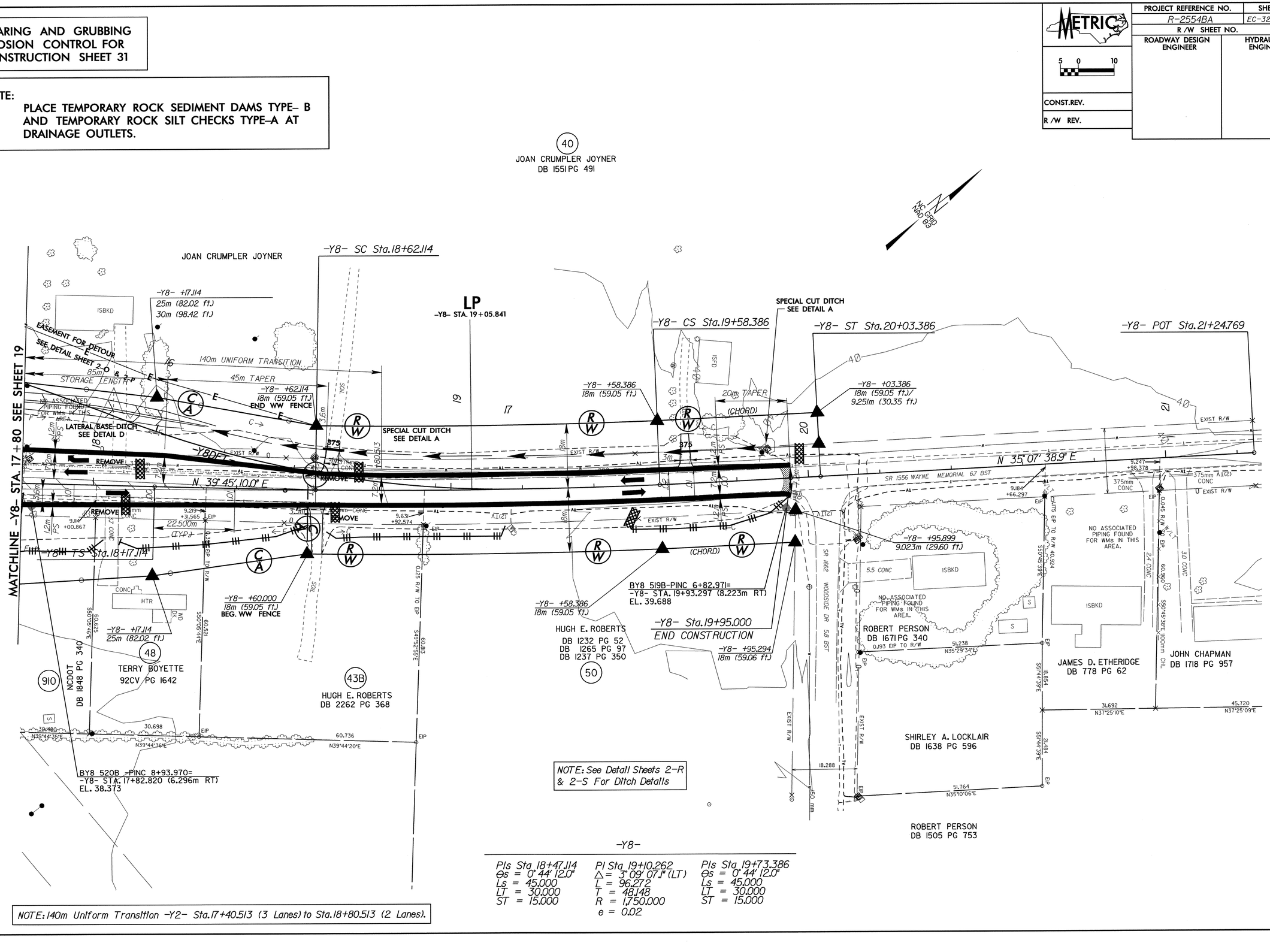
METRIC 5 0 10

CONST.REV.

R /W REV.

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31**

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

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# DETOUR

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-33/CONST.2-M |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

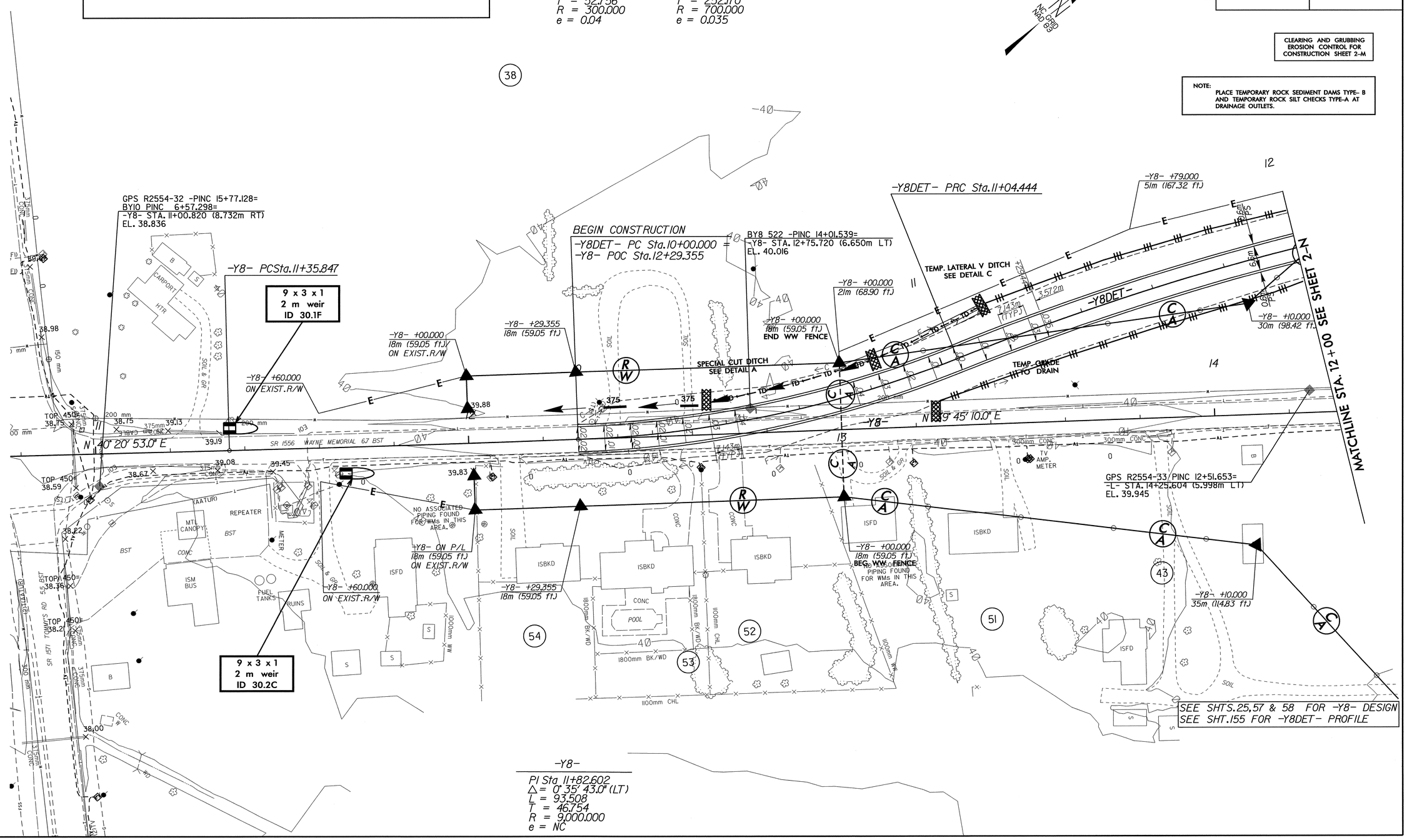
R/W REV.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2-M

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

-Y8DET-

| PI Sta 10+52.756 | PI Sta 13+56.614 |
|---|---|
| Δ = 19° 56' 50.4" (LT) | Δ = 39° 37' 20.6" (RT) |
| L = 104.444 | L = 484.079 |
| T = 52.756 | T = 252.170 |
| R = 300.000 | R = 700.000 |
| e = 0.04 | e = 0.035 |




-Y8-

| PI Sta 11+82.602 |
|---|
| Δ = 0° 35' 43.0" (LT) |
| L = 93.508 |
| T = 46.754 |
| R = 9,000.000 |
| e = NC |

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jdwolston AT REN22149

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-34/CONST.2-N |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC 5 0 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 2-N

# DETOUR

MATCHLINE STA. 12+00 SEE SHEET 2-M

MATCHLINE STA. 15+40 SEE SHEET 2-O

CEMETERY

-Y8RPC- +78.000
30m (98.43 ft.)

-Y8RPC- +90.000
30m (98.42 ft.)

-Y8RPB- +39.966
30m (98.42 ft.)

-Y8RPB- +06.630
30m (98.42 ft.)

-Y8- +31.471
61.7m (202.43 ft.)

8RPB- TSSta.12+94.966

-Y8RPB- SCSta.13+39.966

-Y8RPB- CSSta.14+06.630

-Y8DET- POT Sta.13+43.383

S 49° 36' 15.9" E

BL- 585 PINC 64+38.947=
-L- STA. 145+69.122 (12.858m LT)
EL. 39.832

TEMP. LATERAL V DITCH SEE DETAIL C

-Y8DET-

BL- PINC 65+47.062=
BY8 521PINC 10+67.590=
-L- STA. 146+76.942 (20.843m LT)=
-Y8- STA. 16+09.201 (7.08m RT)
EL. 37.927

-Y8- POTSta.14+65.000 =
-Y8RPC- POTSta.14+40.558
-Y8RPD- POTSta.15+27.301

-L- POT Sta.146+62.803 =
-Y8- POT Sta.15+85.032
△ = 72°10'39.0"

-Y8RPB- STSta.14+51.630

TEMP. DRAIN INTO EXIST. 450MM RCP. DIVERT FLOW INTO PROPOSED 750MM RCP AFTER PIPE #156 IS BUILT.

TEMP. TAIL V DITCH SEE DETAIL X

-Y8- POT Sta.17+07.000
-Y8RPA- POT Sta.14+71.245
-Y8RPB- POT Sta.14+78.567

TEMP. LATERAL V DITCH SEE DETAIL C

TEMP. 2.7 TONS CL B RIPRAP W. 8.4 SM FIL.FAB.

SPECIAL CUT DITCH SEE DETAIL A

750 CLASS V

RETAIN UNTIL PIPE #156 IS BUILT.

N 39° 45' 10.0" E

SR 1556 WAYNE MEMORIAL 67 BST

N 65° 14' 50.0" W

-Y8RPD-STSta.14+95.214

NO ASSOCIATED PIPING FOUND FOR WMS IN THIS AREA.

-L- TSSta.146+90.311

-Y8RPD-CSSta.14+50.214

-Y8RPA- STSta.14+39.493

N 43° 49' 48" W

-Y8RPA-

S 65° 00' 00.0" E

-Y8DET-
PI Sta 13+56.614
△ = 39° 37' 20.6" (RT)
L = 484.079
T = 252.170
R = 700.000
e = 0.035

NC GRID N40 83

A B C D

SEE SHTS.25,57 & 58 FOR -Y8- DESIGN
SEE SHT.155 FOR -Y8DET- PROFILE

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$profile$ AT RENY221445

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-35/CONST.2-0 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

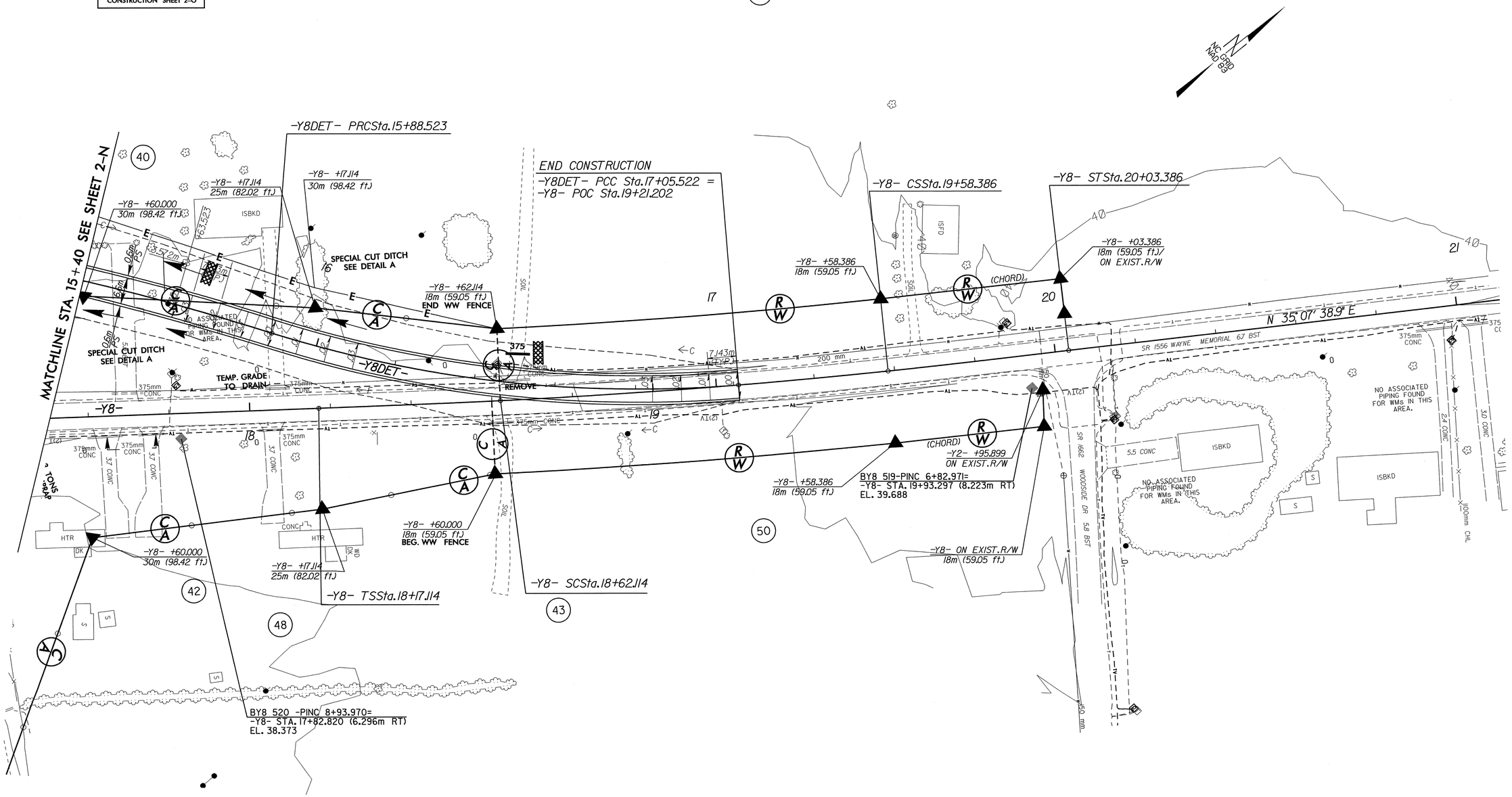
R /W REV.

# DETOUR

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 2-O

-Y8DET-
PI Sta 16+47.775
Δ = 22° 20' 42.6" (LT)
L = 116.999
T = 59.252
R = 300.000
e = 0.03




SEE SHTS.25,57 & 58 FOR -Y8- DESIGN
SEE SHT.155 FOR -Y8DET- PROFILE

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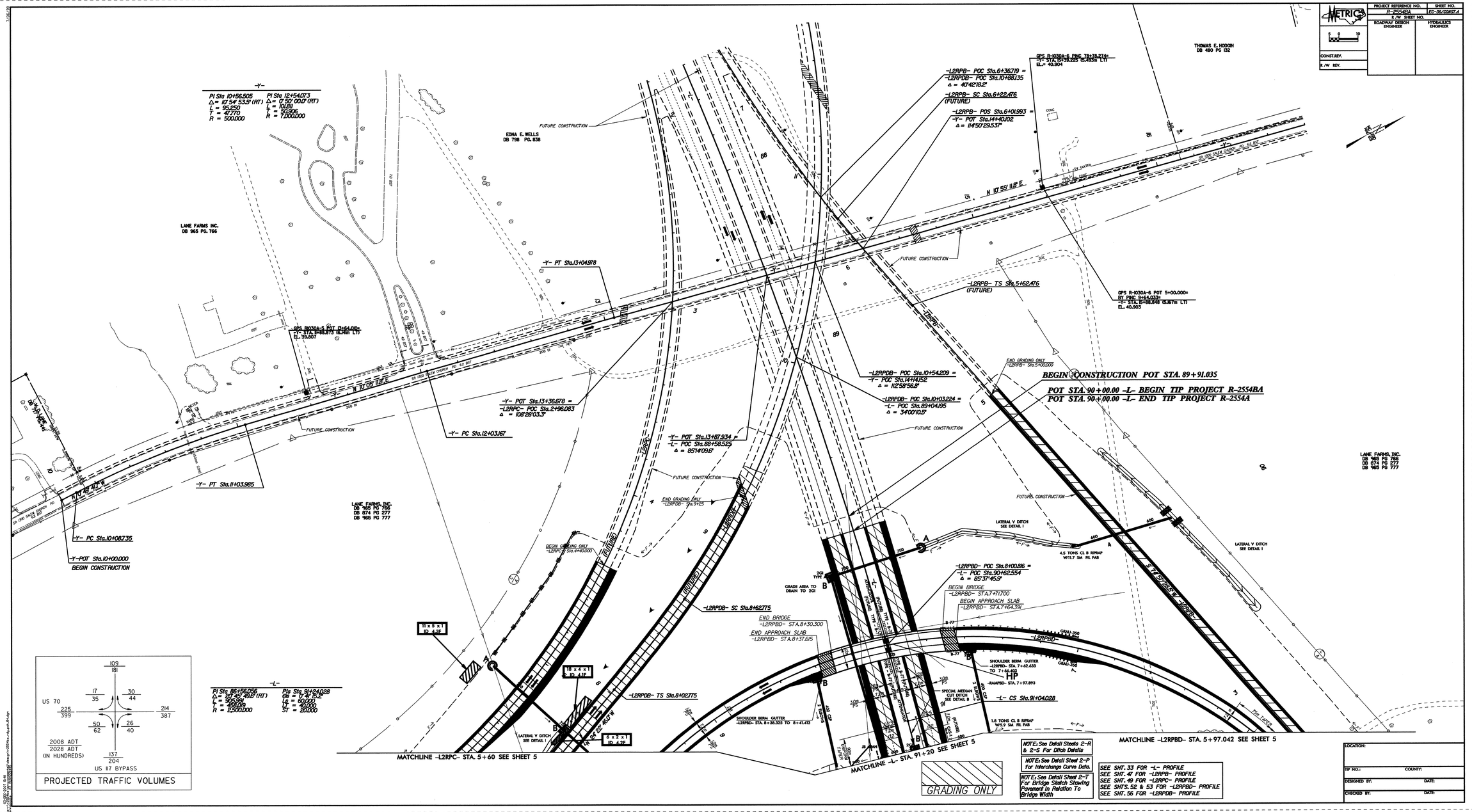
jdwalston AT RENV22(4)

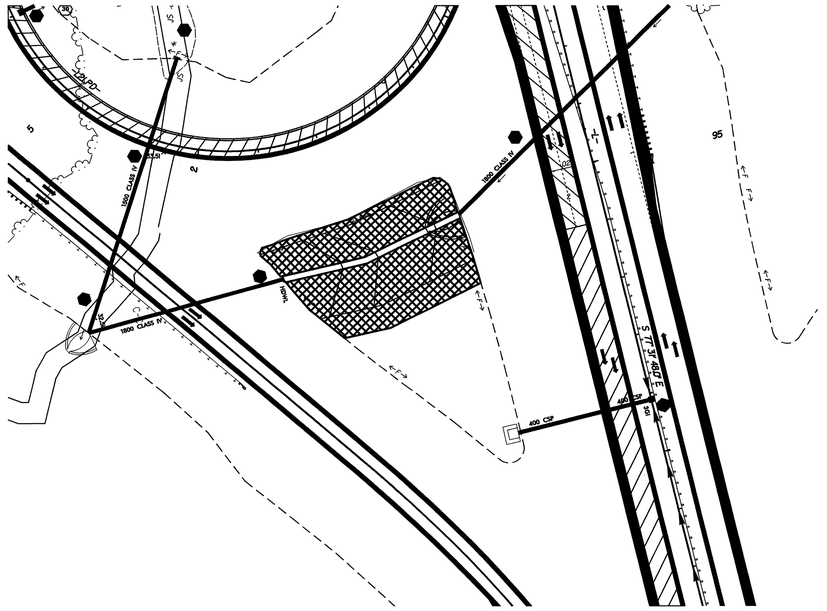


-Y-
PI Sta 10+56.505
Δ = 10°54'53.5" (RT)
L = 95.250
T = 47.770
R = 500.000
PI Sta 12+54.073
Δ = 0°50'00.0" (RT)
L = 101.811
T = 50.906
R = 7,000.000
EDNA E. WELLS
DB 798 PG. 838
LANE FARMS INC.
DB 965 PG. 766
THOMAS E. HODGIN
DB 480 PG 132
-L2RPB- POC Sta.6+36.719 =
-L2RPDB- POC Sta.10+88.135
Δ = 40°42'18.2"
-L2RPB- SC Sta.6+22.476
(FUTURE)
-L2RPB- POS Sta.6+01.993 =
-Y- POT Sta.14+40.102
Δ = 114°50'29.537"
-Y- PT Sta.13+04.978
-L2RPB- TS Sta.5+62.476
(FUTURE)
GPS R-1030A-6 POT 5+00.000=
BY PINC 9+64.033=
-Y- STA. 15+88.848 (5.167m LT)
EL. 40.903
-L2RPDB- POC Sta.10+54.209 =
-Y- POC Sta.14+14.152
Δ = 112°58'56.8"
-L2RPDB- POC Sta.10+03.224 =
-L- POC Sta.89+04.195
Δ = 34°00'10.5"
BEGIN CONSTRUCTION POT STA. 89+91.035
POT STA. 90+00.00 -L- BEGIN TIP PROJECT R-2554BA
POT STA. 90+00.00 -L- END TIP PROJECT R-2554A
-Y- POT Sta.13+36.678 =
-L2RPC- POC Sta.2+96.083
Δ = 108°26'03.3"
-Y- PC Sta.12+03.167
-Y- POT Sta.13+87.934 =
-L- POC Sta.88+58.525
Δ = 85°14'09.6"
-Y- PT Sta.11+03.985
-Y- PC Sta.10+08.735
-Y-POT Sta.10+00.000
BEGIN CONSTRUCTION
LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777
-L2RPDB- SC Sta.8+62.775
-L2RPDB- TS Sta.8+02.775
-L2RPBD- POC Sta.8+00.816 =
-L- POC Sta.90+62.554
Δ = 85°37'45.9"
BEGIN BRIDGE
-L2RPBD- STA.7+71.700
BEGIN APPROACH SLAB
-L2RPBD- STA.7+64.391
END BRIDGE
-L2RPBD- STA.8+30.300
END APPROACH SLAB
-L2RPBD- STA.8+37.615
-L- CS Sta.91+04.028
MATCHLINE -L2RPC- STA. 5+60 SEE SHEET 5
MATCHLINE -L- STA. 91+20 SEE SHEET 5
MATCHLINE -L2RPBD- STA. 5+97.042 SEE SHEET 5
US 70
US 117 BYPASS
2008 ADT
2028 ADT
(IN HUNDREDS)
PROJECTED TRAFFIC VOLUMES
GRADING ONLY
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
NOTE: See Detail Sheet 2-P for Interchange Curve Data.
NOTE: See Detail Sheet 2-T For Bridge Sketch Showing Pavement In Relation To Bridge Width
SEE SHT. 33 FOR -L- PROFILE
SEE SHT. 47 FOR -L2RPB- PROFILE
SEE SHT. 49 FOR -L2RPC- PROFILE
SEE SHTS. 52 & 53 FOR -L2RPBD- PROFILE
SEE SHT. 56 FOR -L2RPDB- PROFILE
PROJECT REFERENCE NO.
R-2554BA
SHEET NO.
EC-36/CONST.4
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
DATE:
CHECKED BY:
DATE:

PROJECT REFERENCE NO. R-2554BA
SHEET NO. EC-37/CONST.5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
METRIC
CONST.REV.
R/W REV.
MATCHLINE -L2RPC- STA. 5+60 SEE SHEET 4
MATCHLINE -L- STA. 91+20 SEE SHEET 4
MATCHLINE -L2RPB- STA. 5+98 SEE SHEET 4
MATCHLINE -L2RPBD- STA. 3+80 SEE SHEET 23
MATCHLINE -L2- STA. 93+20 SEE SHEET 23
MATCHLINE -L2RPA- STA. 4+50 SEE SHEET 23
MATCHLINE -L2RPA- STA. 3+00 SEE SHEET 6
MATCHLINE -L- STA. 95+20 SEE SHEET 6
MATCHLINE -L2RPBD- STA. 14+00 SEE SHEET 6
MATCHLINE -L2RPC- STA. 7+45 SEE SHEET 22
MATCHLINE -L2- 85+80 SEE SHEET 22
MATCHLINE -L2RPDB- STA. 4+80 SEE SHEET 22
MATCHLINE -L2RPD- STA. 1+70 SEE SHEET 22
A
B
C
D
US 117 ALT.SBL
US 117 ALT.NBL
-L2- N 34°47' 00.0" E
-L2RPDB- ST Sta.6+81.797
-L2RPDB- CS Sta.6+21.797
-L2- POT Sta.86+57.806 =
-L2RPDB- POC Sta.5+63.595
Δ = 42°19' 02.6"
-L2- POT Sta.87+73.739 =
-L2RPBD- POC Sta.11+09.326
Δ = 85°12' 03.1"
-L- POT Sta.93+23.591 =
-L2- POT Sta.90+29.263 =
Δ = 67°41' 11.20"
-L- ST Sta.91+64.028
-L2LPB- PCC Sta.1+26.652
-L2LPB- SC Sta.0+90.000
-L2LPB- PCC Sta.3+62.010
-L- Sta.92+90.586=
-L2LPB- ST Sta.0+00.000 (14.2m LT)
-L2LPB- CS Sta.3+98.662
-L2- Sta.90+07.831=
-L2LPD- ST Sta.4+98.146 (14.2m RT)
-L- Sta.93+45.023=
-L2LPD- ST Sta.0+00.000 (14.2m RT)
-L2LPD- CS Sta.4+08.146
-L2LPD- SC Sta.0+90.000
-L2RPBD- SC Sta.5+97.062
-L2RPBD- TS Sta.5+37.062
-L2RPBD- ST Sta.5+17.062
-L2RPBD- CS Sta.4+57.062
-L2RPB- ST Sta.1+73.446
-L2RPB- CS Sta.1+13.446
-L2RPBD- CS Sta.12+99.328
-L2RPD- SC Sta.1+99.163
-L2RPD- CS Sta.3+72.300
-L2RPD- ST Sta.4+32.300
-L2RPD- POT Sta.5+10.361
-L2RPBD- ST Sta.13+59.328
-L2RPA- PCC Sta.4+12.503
BL- 560B PINC 8+42.881=
-L- STA. 91+63.910 (0.931m RT)
EL. 38.956
BL- 561B PINC 11+39.090=
-L- STA. 94+60.118 (0.02m RT)
EL. 38.197
42 x 12 x 1 4 m weir ID 5.3C (See Infiltration Basin Detail)
40 x 19 x 1 6.3 m weir ID 5.2C (See Infiltration Basin Detail)
24 x 11 x 1 4 m weir ID 5.5C
15 x 6 x 1 3.5 m weir ID 5.10F (See Infiltration Basin Detail)
8 x 3 x 1 ID 5.9F
18 x 6 x 1 ID 5.8F
10 x 5 x 1 1.7 m weir ID 5.11F (See Infiltration Basin Detail)
18 x 8 x 1 3 m weir ID 5.21C
12 x 4 x 1 ID 5.3F
15 x 5 x 1 ID 5.4F
12 x 2 x 1 ID 5.5F
12 x 3 x 1 ID 5.6F
7 x 3 x 1 38 mm Skimmer with 25 mm Orifice Diameter 2 m weir ID 5.12C
12 x 6 x 1 2 m weir ID 5.1F (See Infiltration Basin Detail)
12 x 6 x 1 2 m weir ID 5.2F (See Infiltration Basin Detail)
11 x 5 x 1 2 m weir ID 5.14C
14 x 7 x 1 2 m weir ID 5.1C
6 x 2 x 1 38 mm Skimmer with 19 mm Orifice Diameter 2 m weir ID 5.15C
5 x 2 x 1 38 mm Skimmer with 17 mm Orifice Diameter 2 m weir ID 5.7F
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 5.19C
8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 5.18C
26 x 12 x 1 102 mm Skimmer with 79 mm Orifice Diameter 4 m weir ID 5.22C
23 x 12 x 1 4 m weir ID 5.12F
LANE FARMS, INC. DB 965 PG 766 DB 874 PG 277 DB 965 PG 777
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details
NOTE: See Detail Sheet 2-P for Interchange Curve Data.
NOTE: See Detail Sheet 2-T For Bridge Sketch Showing Pavement In Relation To Bridge Width
SEE SHT. 33 FOR -L- PROFILE
SEE SHT. 58 FOR -L2LPB- PROFILE
SEE SHT. 59 FOR -L2LPD- PROFILE
SEE SHT. 46 FOR -L2RPA- PROFILE
SEE SHT. 47 FOR -L2RPB- PROFILE
SEE SHT. 53 FOR -L2RPBD- PROFILE
SEE SHTS. 49 & 50 FOR -L2RPC- PROFILE
SEE SHT. 51 FOR -L2RPD- PROFILE
SEE SHT. 55 FOR -L2RPDB- PROFILE
GRADING ONLY
Place Matting for Erosion Control on Slope as Work Allows.
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-38/CONST.5 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# 0.22 HECTARE STREAMBANK REFORESTATION

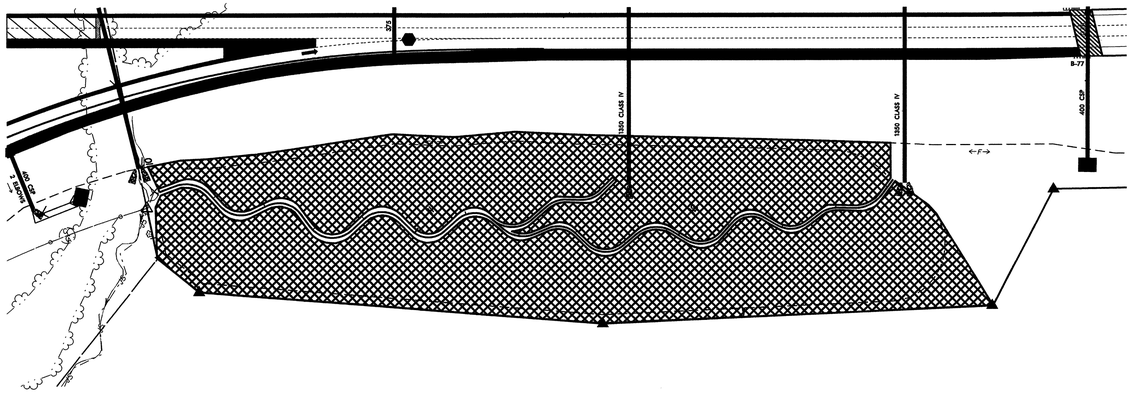



## SEE RF–2, RF–3 AND PROJECT SPECIAL PROVISIONS

03-DEC-2007 13:53

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-40/CONST.6 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# 1.5 HECTARE STREAMBANK REFORESTATION




## SEE RF–2, RF–3 AND PROJECT SPECIAL PROVISIONS

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-4/CONST.7 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

METRIC

0 5 10

Sta.10+04.35 -CONSTRUCTION

-Y2B- POT Sta.10+00.000
-EY2- POT Sta.19+24.462

2.7 TONS CL B RIPRAP W/8.4 SM. FIL FAB

S 1° 25' 08.8" W

-Y2B- POT Sta.11+46.340 =
-SR5- POT Sta.10+60.000 =
-Y2- POC Sta.11+57.703

-Y2B- STA. 10+63.644

S 8° 00' 00.0" E

-Y2- POC Sta.19+07.703 =
-Y2RPD- POT Sta.16+57.170

-Y2- POC Sta.19+15.203 =
-Y2LPD- POT Sta.14+93.306

-L- POC Sta.103+80.709 =
-Y2- POC Sta.20+96.030
Δ = 100°52'27.8"

-L- Sta.102+54.215 =
-EY2- Sta.15+85.386

-L- Sta.104+98.939 =
-Y2LPDE POT Sta.10+00.000 (14.2m RT.)

-Y2LPD- ST Sta.14+08.197

-Y2LPD- TS Sta.10+65.000

-L- CS Sta.104+98.143

-Y2LPD- SC Sta.11+55.000

-Y2RPD- Sta.13+80.197

-Y2RPD- CS Sta.15+45.915

-Y2RPD- ST Sta.15+90.915

-SR5- PT Sta.12+08.407

-SR5- PC Sta.10+20.000

-SR5- STA. 12+40

-Y2LPD- STA. 13+10

-Y2LPD- +40.000 BEGIN CONC.C&G

-L- Sta.104+18.500 =
-Y2LPA- CS Sta.10+00.000 (14.2m LT.)

-Y2LPA- ST Sta.13+46.600

-Y2LPA- CS Sta.15+69.605

-Y2LPA- CS Sta.12+56.600

-Y2LPA- SC Sta.10+90.000

-Y2LPA- ST Sta.14+35.877

-L- ST Sta.105+58.143

-L- Sta.105+80

-Y2RPA- TS Sta.14+35.877

-Y2RPA- STA.14+42.347

-Y2RPA- ST Sta.16+14.605

-Y2RPA- SC Sta.14+80.877

-Y2RPA- STA. 14+05

-Y2RPA- +82.000

-SR6- +120.000
9.144m (29.99 ft.)

-SR6- +33.00
9.144m (29.99 ft.)

-SR6- PT Sta.10+84.262

-SR6- PC Sta.11+57.836

-SR6- POC Sta.11+77.836

-SR6- STA. 10+37.500

-SR6- POT Sta.10+00.000

-Y2- POC Sta.24+00.000

-EY2- PT Sta.13+85.030

-Y5- PT Sta.11+98.987

-Y5- PC Sta.12+46.196

-Y5- STA. 12+00.172

-Y5- PT Sta.12+93.307

-Y2LPA- POT Sta.14+16.392 =
-Y5- POT Sta.12+09.501
-Y2- POT Sta.22+27.203

-Y2RPA- POT Sta.16+65.848 =
-Y2- Sta.22+81.203

-Y2- CS Sta.21+96.335

-Y2- ST Sta.22+41.335

-Y2- SC Sta.23+46.035

-SR6- PC Sta.10+23.350

-Y2- TS Sta.23+01.035

-Y2RPA- ST Sta.16+14.605

-Y2RPA- +82.000

-SR6- +120.000
9.144m (29.99 ft.)

-SR6- +33.00
9.144m (29.99 ft.)

-Y2RPA-1 +78.000
(28.343m (92.99 ft.))

-SR6- PC Sta.11+57.836

-SR6- POC Sta.11+77.836

-Y2RPA- SC Sta.14+80.877

MATCHLINE -Y2- STA. 17+00 SEE SHEET 27

MATCHLINE -Y2- STA. 24+40 SEE SHEET 28

MATCHLINE -L- STA. 102+20 SEE SHEET 6

MATCHLINE -Y5- STA. 11+80 SEE SHEET 29

MATCHLINE -SR5- STA. 12+40 SEE SHEET 8

MATCHLINE -Y2LPD- STA. 13+10 SEE SHEET 8

MATCHLINE -L- STA. 105+80 SEE SHEET 8

MATCHLINE STA. -Y2RPA- 14+05 SEE SHEET 6

NORTH CAROLINA WAREHOUSING, LLC DB 1819 PG 801

ADELL S. ELIRE DB 5819 PG 334

NORTH CAROLINA NATURAL GAS DB 499 PG 289

L. HARVEY & SON CO. DB 887 PG 136

AMERIGAS PROPANE DB 1476 PG 227

VERA O'ROURKE DB 483 PG 353

EARL J. AYDOCK JR. DB 1226 PG 294

GATE PROPERTY MANAGEMENT LLC DB 2554 PG 341

ELIZABETH H. BEST DB 1581 PG 259

JAMES T. ROWE DB 1251 PG 96
DB 1064 PG 769

ORLANDO MAURICE LEVINSON DB 1284 PG 812

KENNETH EDMUNDSON, JR. DB 1246 PG 421

ETHEL HARRIS DB 1061 PG 255

SARAH SCOTT KIRBY & SALLY WADE SCOTT DB 02E PG 506

EMILY W. PRIVOTT DB 1486 PG 432

NO DETENTION INSIDE RAMP AREA ROAD TOO LOW

LIVE STREAM

END CONSTRUCTION

ENDWALL EXTENSION SEE DETAIL 8.17A

8 x 2 x 1 ID 7.10E

15 x 7 x 1 ID 7.3F

9 x 3 x 1 ID 7.1F

21 x 8 x 1 ID 7.7E

11 x 4 x 1 ID 7.3E

8 x 3 x 1 ID 7.8F

15 x 5 x 1 ID 7.8F

16 x 5 x 1 ID 7.6F

16 x 7 x 1 ID 7.4F

8 x 3 x 1 ID 7.4E

63 x 7 x 1 ID 7.11E

10 x 5 x 1 36 mm Skimmer with 36 mm Orifice Diameter 2 m weir ID 7.13F

9 x 4 x 1 38 mm Skimmer with 33 mm Orifice Diameter 2 m weir ID 7.14F

19 x 9 x 1 64 mm Skimmer with 60 mm Orifice Diameter 4 m weir ID 7.12C

12 x 5 x 1 51 mm Skimmer with 39 mm Orifice Diameter 2 m weir ID 7.12F

10 x 4 x 1 2 m weir ID 7.3C

8 x 4 x 1 2 m weir ID 7.4C

HP -Y2- STA. 20+68.096

LP -Y2- STA. 19+55.000

HP -SR5- STA. 17+20.000

HP -Y2RPA- STA. 14+42.347

LP -Y2- STA. 21+64.906

LP -SR6- STA. 10+37.500

HP -Y2RPA- STA. 14+05

LP -Y2- STA. 19+55.000

LP -L- STA. 105+80

LP -Y2- STA. 21+64.906

LP -SR6- STA. 10+37.500

HP -Y2RPA- STA. 14+42.347

HP -Y2RPA- STA. 14+05

LP -L- STA. 105+80

SEE SHT.5.60 FOR -EY2- PROFILE
SEE SHTS.61 & 62 FOR -Y2- PROFILE
SEE SHT. 64 FOR -Y2RPA- PROFILE
SEE SHT. 65 FOR -Y2RPD- PROFILE
SEE SHT. 66 FOR -Y2LPA- PROFILE
SEE SHT. 67 FOR -Y2LPD- PROFILE
SEE SHT. 68 FOR -Y5- PROFILE
SEE SHT. 69 FOR -SR5- PROFILE
SEE SHT. 71 FOR -SR6- PROFILE
SEE SHT. 72 FOR -Y2B- PROFILE
SEE SHTS. 34 & 35 FOR -L- PROFILE

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

PROJECTED TRAFFIC VOLUMES

214 / 387
US 17 BUS.
28 / 42 — 10 / 16 — 160 / 260
167 / 273 — 28 / 36 — 39 / 50
243 / 415
US 70
2008 ADT
2028 ADT
(IN HUNDREDS)

PROJECTED TRAFFIC VOLUMES

160 / 260
SR 1571
4 / 7 — 7 / 12
163 / 264
US 17 BUS.
2008 ADT
2028 ADT
(IN HUNDREDS)

LAST REVISION 2-21-2006
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| | | | | | |
|---|---|---|---|---|---|
| CUT DITCH<br>-SR6- STA. 14+20-15+78 RT<br>DA=0.919ha (89-LT)<br>Q2=0.163cms<br>V2=0.51m/s<br>SLOPE=0.300%<br>SWALE REQ=69.2m<br>SWALE AVAL=158.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | CUT DITCH<br>-L- STA. 108+40-109+00 LT<br>DA=0.653ha (89-RT)<br>Q2=0.123cms<br>V2=0.62m/s<br>SLOPE=1.200%<br>SWALE REQ=49.1m<br>SWALE AVAL=60.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | MED. CUT DITCH<br>-L- STA. 108+00-108+29 M<br>DA=0.114ha (90-LT)<br>Q2=0.020cms<br>V2=0.21m/s<br>SLOPE=0.831%<br>SWALE REQ=8.6m<br>SWALE AVAL=29.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | MED. CUT DITCH<br>-L- STA. 108+29-108+60 M<br>DA=0.218ha (90-RT)<br>Q2=0.034cms<br>V2=0.35m/s<br>SLOPE=0.829%<br>SWALE REQ=16.4m<br>SWALE AVAL=31.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | LAT. BASE DITCH<br>-SR5- STA. 14+36-15+47 LT<br>DA=0.410ha (69-DITCH)<br>Q2=0.059cms<br>V2=0.44m/s<br>SLOPE=0.432%<br>SWALE REQ=30.9m<br>SWALE AVAL=111.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | MED. CUT DITCH<br>-L- STA. 104+20-107+40 M<br>DA=0.680ha (86)<br>Q2=0.113cms<br>V2=0.56m/s<br>SLOPE=0.960%<br>SWALE REQ=51.2m<br>SWALE AVAL=320.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) |
| CUT DITCH<br>-Y2RPA- STA. 11+91-12+30 LT<br>DA=0.192ha (85-DITCH RT)<br>Q2=0.033cms<br>V2=0.62m/s<br>SLOPE=3.700%<br>SWALE REQ=14.5m<br>SWALE AVAL=39.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | CUT DITCH<br>-Y2RPA- STA. 12+30-13+40 LT<br>DA=0.697ha (85-DITCH IT)<br>Q2=0.079cms<br>V2=0.33m/s<br>SLOPE=0.300%<br>SWALE REQ=52.5m<br>SWALE AVAL=70.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | LAT. V DITCH<br>-L- STA. 105+40-107+40 LT<br>DA=1.355ha (85-DITCH LT)<br>Q2=0.159cms<br>V2=0.62m/s<br>SLOPE=0.300%<br>SWALE REQ=102.1m<br>SWALE AVAL=200.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | LAT. V DITCH<br>-Y2RPD- STA. 13+00-14+20 RT<br>DA=1.590ha (68-DITCH RT)<br>Q2=0.151cms<br>V2=0.43m/s<br>SLOPE=0.300%<br>SWALE REQ=119.8m<br>SWALE AVAL=120.0m<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | CUT & LAT. V DITCH<br>-Y2RPD- STA. 12+30-13+00 RT<br>DA=0.828ha (68-DITCH LT)<br>Q2=0.346cms<br>V2=0.59m/s<br>SLOPE=0.300% & 1.300%<br>SWALE REQ=62.4m<br>SWALE AVAL=70.0m<br>(3.752ha IN DITCH)<br>(DA DOES NOT ENTER BUFFER DIRECTLY) | |

SEE SHT. 69 FOR -SR5- PROFILE
SEE SHT. 71 FOR -SR6- PROFILE
SEE SHT. 67 FOR -Y2LPD- PROFILE
SEE SHT. 64 FOR -Y2RPA- PROFILE
SEE SHT. 65 FOR -Y2RPD- PROFILE
SEE SHT. 35 FOR -L- PROFILE

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: See Detail Sheet 2-Q for Interchange Curve Data.

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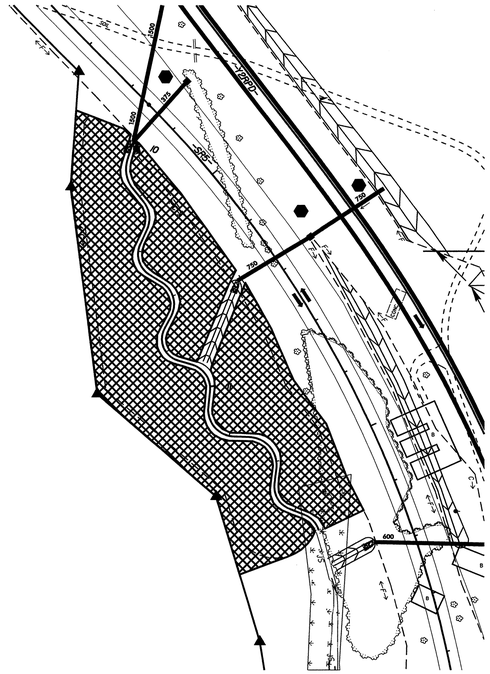
brennpoole AT RENV221495

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-43/CONST.8 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# 0.65 HECTARE STREAMBANK REFORESTATION



## SEE RF–2, RF–3 AND PROJECT SPECIAL PROVISIONS

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-44/CONST.9 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC 5 0 10

ARDETH L. SCOTT
DB 1551 PG 55
IIA

-L- POT Sta.109+70.000=
-Y2RPA- POT Sta.10+00.000 (14.2m Lt.)
Δ = 2° 18' 00.0"
HP -SR6- STA. 17+48.077

DEBORAH SCOTT FOY
DB 1551 PG 57
IIC

HP -L- STA. 109+76.922

-SR6- POT Sta.18+25.220
-SR6- PC Sta.18+77.655
-SR6- PT Sta.19+11.460
END CONSTRUCTION -SR6- POT Sta.19+30.000

N 85° 15' 20.0" E -SR6-
N 85° 15' 20.0" E -L-
PROPOSED SOIL DRIVE
GRADE TO DRAIN
SPECIAL CUT DITCH SEE DETAIL H
JOYCE P. CRUMPLER
DB 904 PG 420
13

NC GRID NAD 83

MATCHLINE -L- STA. 109+60 SEE SHEET 8

MATCHLINE -L- STA. 112+80 SEE SHEET 10

HP -Y2RPD- STA. 10+15.046

R/W CURVE DATA
RADIUS : 230.856m
CHORD BEARING : S 8°12'40" E LT.
CHORD DISTANCE : 35.759 m

-L- POT Sta.109+96.000=
-Y2RPD- TS Sta.10+00.00 (14.2m Rt.)

180m ACCELERATION LANE

R/W CURVE DATA
RADIUS : 159.144m
CHORD BEARING : S 83°50'05" E RT.
CHORD DISTANCE : 48.818m

29 x 8 x 1
ID 9.1C

7 x 3.5 x 1
38 mm Skimmer
with 27 mm
Orifice Diameter
2 m weir
ID 9.2C

8 x 4 x 1
ID 9.1C

12 x 4 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 9.4C

1.8 TONS CL B RIPRAP
W/5.9 SM FIL FAB

90m TAPER

SPECIAL CUT DITCH SEE DETAIL A

CHRISTY COLLINS
12A

915
DEPT. OF TRANS.
DB 2167
PG 629

17
WILLIAM WHITE

9
EMILY W. PRIVOTT
DB 1486 PG 432

-SR5- POC Sta.18+02.000
END CONSTRUCTION

-SR5- PT Sta.18+82.401

-SR5- PC Sta.19+04.672

SR 1571 TOMMYS RD 6.5 BST

SR 1571 TOMMYS RD 6.4 BST

S 77° 58' 11.0" E

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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environmental

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-45/CONST.10 |
| CONST.REV. | R /W SHEET NO. | |
| R /W REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

JOYCE P. CRUMPLER
DB 904 PG 420
13

NC GRID
NAD 83

MATCHLINE –L– STA. 112+80 SEE SHEET 9

MATCHLINE –L– STA. 116+40 SEE SHEET 11

SHOULDER BERM GUTTER
–L– STA. 113+97 TO 114+12.32

SPECIAL CUT DITCH
SEE DETAIL H

SPECIAL MEDIAN CUT–L–
DITCH SEE DETAIL B

TYPE M350

SPECIAL CUT DITCH
SEE DETAIL A

GRAU 350

END WW FENCE

BEG. WW FENCE

PSH
SEE DETAIL F

GRADE TO DRAIN

TOE PROTECTION
SEE DETAIL Q

4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

SHOULDER BERM GUTTER
–L– STA. 113+97 TO 114+12.32

N 85°15'20.0"E

S 75°20'33.6"E

S 87°24'09.9"E

HOWELL BRANCH

CAREY R. HAM
DB 1521 PG 708
28

14 x 6 x 1
51 mm Skimmer
with 47 mm
Orifice Diameter
2 m weir
ID 10.2F

28 x 10 x 1
76 mm Skimmer
with 76 mm
Orifice Diameter
4 m weir
ID 10.1F

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.3F

–L–
Pls Sta 116+87.637
Θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667

–L– TS Sta.116+34.304

17
WILLIAM WHITE

LP
–L– STA. 114+00.714

TCH
SEE DETAIL P

BDO
800 CSP
2 ELBOWS

4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

POND

JAMES TORNAGE
EL
DE

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.5C

CONSERVATION
EASEMENT

–SR5– PT Sta.20+05.544

–SR5– PC Sta.20+55.017

–SR5– PT Sta.21+15.247

–SR5– PC Sta.22+77.138

BEGIN CONSTRUCTION
–SR5– POC Sta.20+60.000

END CONSTRUCTION
–SR5– POT Sta.22+45.00

REMOVE EXIST
CULVERT AND
ROADBED FOR
MITIGATION
CREDIT

400mm
CMP

GRADE TO
DRAIN

PROP. 3.6m GATE

JAMES W. HUBBLE
DB 1171 PG 405
26

CAROLYN B. MORRIS
&
W. THOMAS BARDIN
ESTATE FILE 02E-245

SEE CONSERVATION EASEMENT INSET

Cox Seml-Circle

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 10.4C

PATRICIA GABRIE
WB 1930 PG 16
27

WILLIAM W. WHITE
DB 1137 PG 620
26

HOWELL BRANCH

–SR5– +94.000
27m (88.58 ft.)

–SR5– +00.000
35.000m (10.67 ft.)

–SR5– +69.000
64.000m (19.51 ft.)

–SR5– +32.000
76.000m (23.16 ft.)

PROPOSED
CONSERVATION
EASEMENT

CONSERVATION EASEMENT INSET

NOTE:
UTILIZE SKIMMER BASIN
AS STILLING BASIN WHERE APPLICABLE.

571 TOMMY'S RD 6.4 BST

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Bentleyuser
PLOTSCALE = 1.0000

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-46/CONST.JI |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

-L-
PIs Sta 116+87.637
Θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667

PI Sta 123+83.422
Δ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

NC GRID NAD 83

117

118

28
CAREY R. HAM
DB 1621 PG 708

-Y7- POT Sta.12+80.000
END CONSTRUCTION

-L- POC Sta.118+92.556 =
-Y7- POT Sta.12+17.434
Δ = 86°19'25.9"

16 x 4 x 1
2 m weir
ID 11.4F

0.15m DECK DRAINS
AT 1.8m CENTERS

EXIST R/W

18.288

9.744
+05.883

0.20l R/W TO EIP 13

68.092
S76°20'19"E

29
J. D. GUPTA
DB 1439 PG 459

19 x 3 x 1
2 m weir
ID 11.6F

0.15m DECK DRAINS
AT 1.8m CENTERS

NC III 7.3 BST

119

7.2m

-L- 110.883

TSD

17.2m (56.43 ft.)
BEG. WW FENCE

PAVE SHOULDERS ON -Y7-
ACCORDING TO STD.610.03

END WW FENCE

B-77

CAT 1

45m

3.0m PS

+84.304

15.0m (TYP.)

600

.02 .01 .00 .01 .02

7.2m

1.2m PS

11.4m

-L-

GI

FS

B

TYPE M350

PSRM

B-77

GRADE TO DRAIN

TYPE M350

S86°47'27"E

375

GRAU 350

2GI

400 CSP

2 ELBOWS

6 x 2 x 1
ID 11.3F

SHOULDER BERM GUTTER END WW FENCE
-L- STA. 117+59 TO 118+69

4.5 TONS CL B RIPRAP
W/11.7 SM FIL FAB

LATERAL V DITCH
SEE DETAIL I

1.8 TONS CL B RIPRAP
W/5.9 SM FIL FAB

(CHORD)

TDE

-L- SC Sta.117+14.304

MARJORIE M. HESTER
DB 1439 PG 801

SHOULDER BERM GUTTER
-L- STA. 119+14 TO 121+20

BEG. WW FENCE

HP
-L- STA. 119+20.290

-Y7-

LATERAL V DITCH
SEE DETAIL C

8 x 4 x 1
2 m weir
ID 11.2F

-Y7- POT Sta.11+60.000
BEGIN CONSTRUCTION

22 x 7 x 1
64 mm Skimmer
with 64 mm
Orifice Diameter
3 m weir
ID 11.1F

76.915
N85°46'34"W

39.378
S01°43'28"W

39.204
N85°44'58"W

9.120

1100mm CHL

77.163

ISBKD

SOIL & GR
NOT ASSOCIATED
FOR THIS PROJ.

RETAIN

SOIL

8.773
+35.131

10.110
+30.678

0.041 EIP TO R/W

14 x 3 x 1
2 m weir
ID 11.5F

29A
MARJORIE M. HESTER
DB 1439 PG 801

N 3°06'00.0" E

NC III 7.3 BST

EXIST R/W

8.785
+02.708

MATCHLINE -L- STA. 116+40 SEE SHEET 10

MATCHLINE -L- STA. 119+80 SEE SHEET 12

03-DEC-2007 14:02
R:\projects\r-2554ba_environmental\design\r-2554ba_rdy_psh_11.dgn

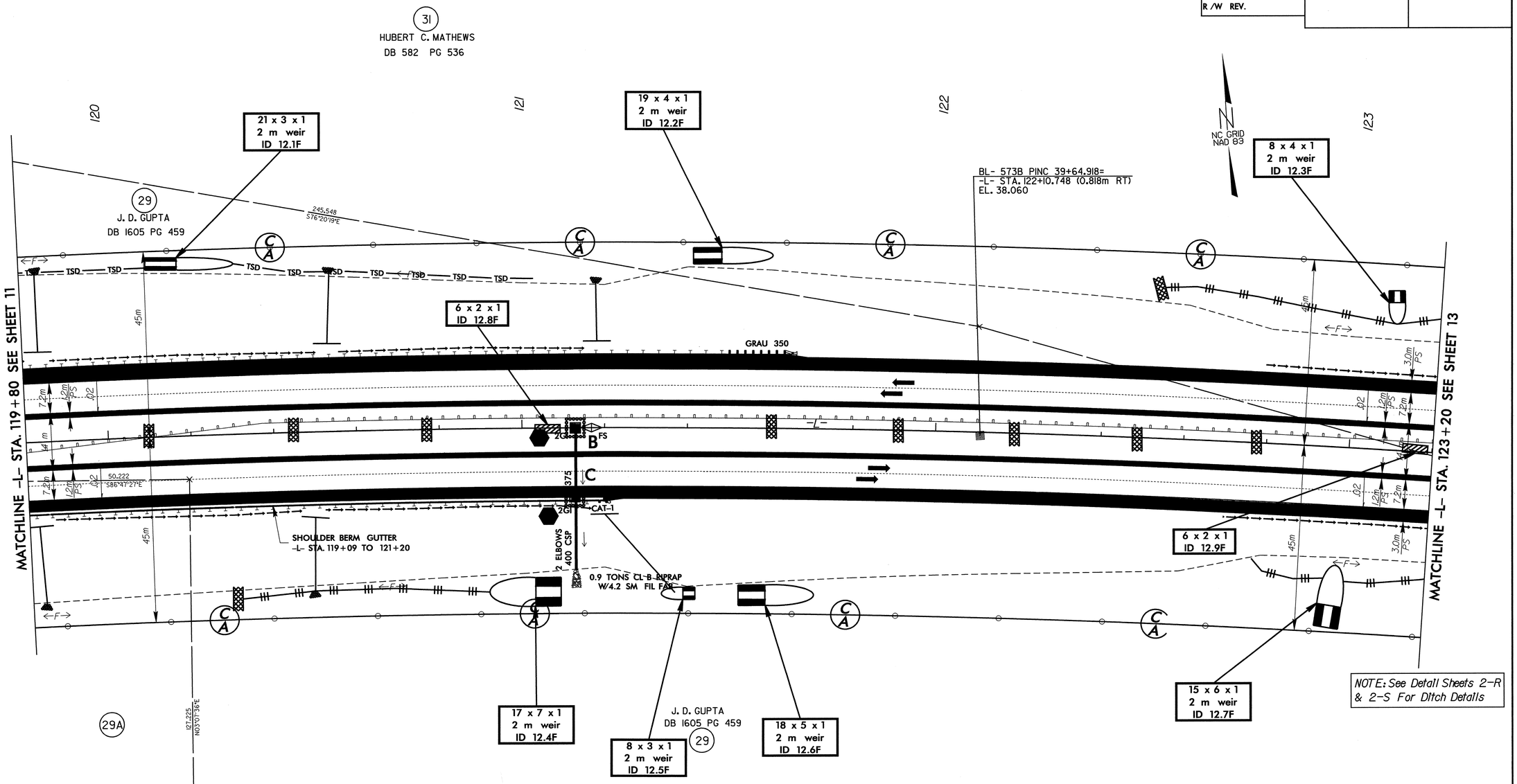
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-47/CONST.12 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-L-

PI Sta 123+83.422
$\Delta$ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

03-DEC-2007 14:03
g:\tipprojects\r-2554ba\environmental\design\r-2554ba_rdy_psh_12.dgn
Brennapoole AT RENV221445

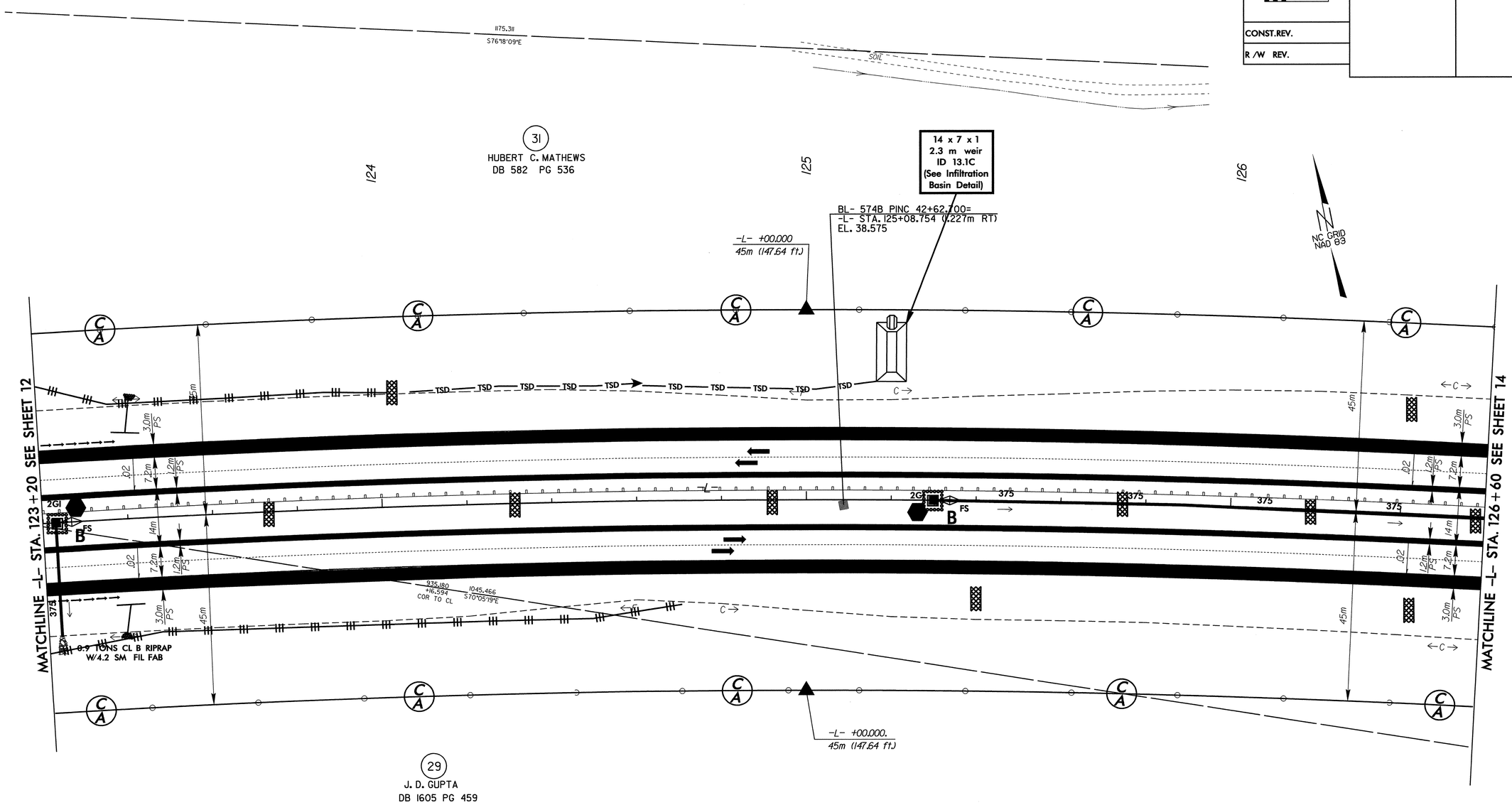
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-48/CONST.13 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-L-

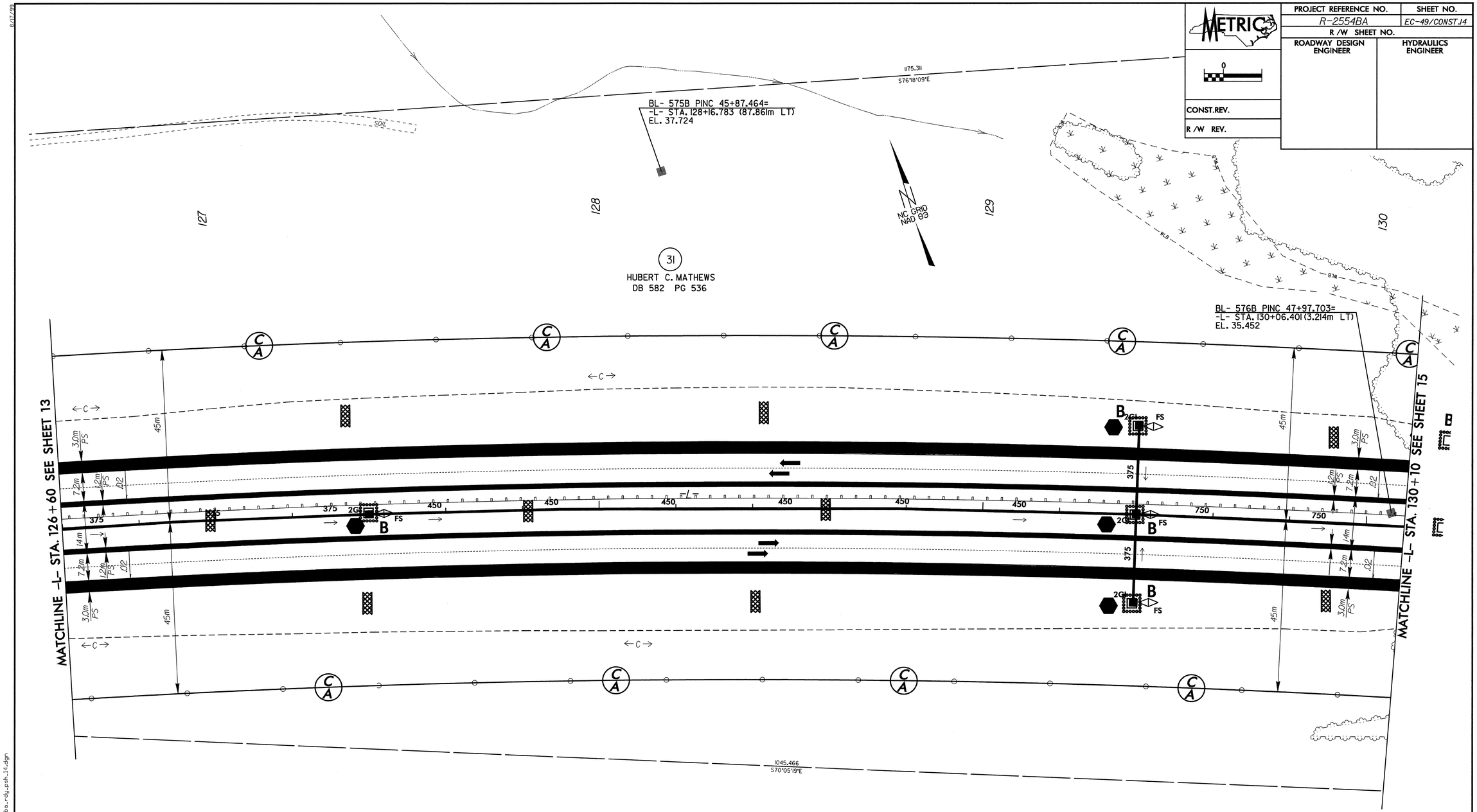
PI Sta 123+83.422
$\Delta$ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

8/17/99

03-DEC-2007 14:04
g:\tipprojects\r2554ba\environmental\design\r2554ba_rdy_psh_13.dgn
brennapoole AT RENV22145

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-49/CONST.14 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

METRIC




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

J. D. GUPTA
DB 1605 PG 459

-L-
PI Sta 123+83.422
$\Delta$ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = 0.02

03-DEC-2007 15:48
g:\tpprojects\r-2554ba\environmental\design\r2554ba_rdy_psh_14.dgn
brennapoole AT RENV221445

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-50/CONST J5 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 15.3C

12 x 5 x 1
51 mm Skimmer
with 39 mm
Orifice Diameter
2 m weir
ID 15.4F

8 x 4 x 1
38 mm Skimmer
with 31 mm
Orifice Diameter
2 m weir
ID 15.3F

44 x 12 x 1
102 mm Skimmer
with 102 mm
Orifice Diameter
4 m weir
ID 15.1F

HUBERT C. MATHEWS
DB 582 PG 536
(31)

RUTH
DB 14

SHERMAN E. BEST
DB 1534 PG 253
(32)

J. D. GUPTA
DB 1605 PG 459

NC GRID
NAD 83

STONEY CREEK

131 132 133

MATCHLINE –L– STA. 130+20 SEE SHEET 14

MATCHLINE –L– STA. 133+60 SEE SHEET 16

BEG. WW FENCE

241.676
N70°55'31"W

5.372

S 68°04'11.0" E

SHOULDER BERM GUTTER
–L– STA. 131+24 TO 131+45

LATERAL BASE DITCH
SEE DETAIL E

SPECIAL MEDIAN CUT 20
DITCH SEE DETAIL B

TYPE M350

GRAU 350

7.3 TONS CL B RIPRAP
W/17.6 SM FIL FAB

LATERAL BASE
DITCH SEE
DETAIL L

0.15m DECK DRAINS
AT 3.6m CENTERS

26.6 TONS CL I RIPRAP
W/22.4 SM FIL FAB

8.9 TONS CL B RIPRAP
W/4.2 SM FIL FAB

TOE PROTECTION
SEE DETAIL Q

LP
–L– STA. 131+28.665

–L– ST Sta.131+10.989

–L– CS Sta.130+30.989

PI Sta 123+83.422
Δ = 25° 08' 48.6" (RT)
L = 1,316.685
T = 669.118
R = 3,000.000
e = .02

PIs Sta 130+57.656
θs = 0° 45' 50.2"
Ls = 80.000
LT = 53.334
ST = 26.667

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: UTILIZE TEMPORARY ROCK SILT CHECK TYPE – A AND SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

04-DEC-2007 13:11
gh:\tipprojects\r-2554ba\environmental\design\r2554ba_rdy_psh_15.dgn
bentleyuser
RENV2.1.45

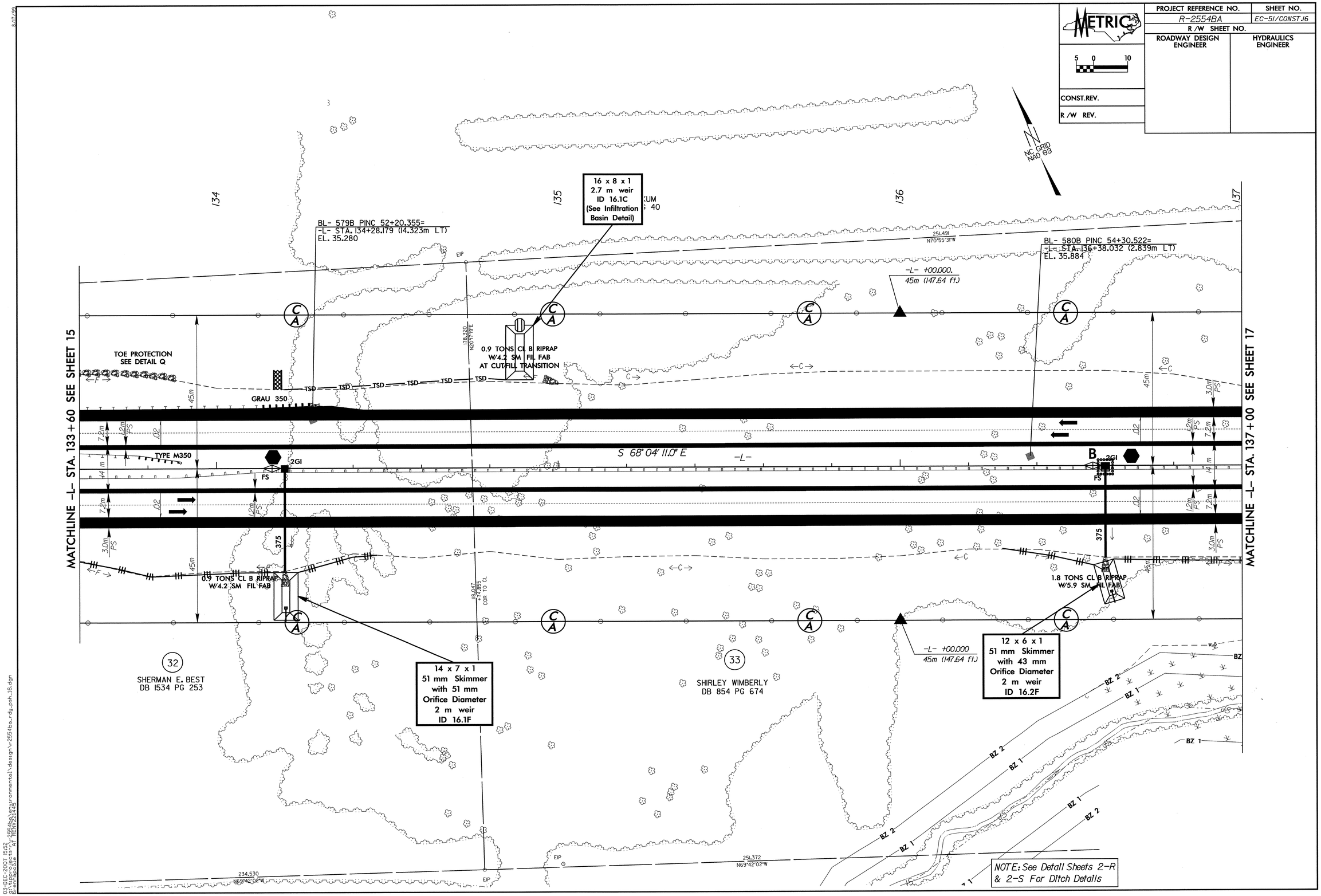
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-51/CONST.16 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.




8/17/99

03-DEC-2007 15:52
g:\tipprojects\r2554ba\environmental\design\r2554ba_rdy_psh_16.dgn
brennapoole AT RENV221445

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-52/CONST.17 |
| CONST.REV. | R /W SHEET NO. | |
| R /W REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

**INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.**

NC GRID NAD 83

REUBEN HAMILTON
DB 1486 PG 43

MATCHLINE –L– STA. 137+00 SEE SHEET 16

MATCHLINE –L– STA. 140+40 SEE SHEET 18

278.65' BEARING

138

139

140

34
MCCLINTON BEST
DB 854 PG 670

BL– 58IB PINC 56+93.095=
–L– STA. 139+00.605 (3.224m LT)
EL. 35.149

15 x 5 x 1
51 mm Skimmer
with 44 mm
Orifice Diameter
3 m weir
ID 17.1F

90 m TAPER

WLB
KENNETH L. WIGGINS
DB 648 PG 95
36

356.80' N26°15'14"W

33
WIMBERLY
DB 854 PG 674

183.69' N20°18'28"E

SHOULDER BERM GUTTER
–L– STA. 140+20 TO 142+26

PSH
SEE DETAIL F

6 x 1 x 1
ID 17.2F

CAT 1

45m

3.0m PS

7.2m

4.2m PS

14m

600

A

B

FS

2GI

–L–

S 68°04'11.0" E

GRAU 350

400 CSP

ELBOWS

SHOULDER BERM GUTTER
–L– STA. 139+60 TO 142+19

SHIRLEY WIMBERLY
DB 854 PG 674

102.88' N26°15'14"W
COR TO CL

4.5 TONS CL B RIPRAP
W/1.7 SM FIL FAB

TAILV DITCH
SEE DETAIL M

17 x 8 x 1
64 mm Skimmer
with 52 mm
Orifice Diameter
4 m weir
ID 17.2C

13 x 5 x 1
51 mm Skimmer
with 41 mm
Orifice Diameter
2 m weir
ID 17.3C

MCCL
DB 85

35
GEORGE MEADE BEST
DB 854 PG 681

214.29' S13°55'58"W

BZ 1
BZ 2

WLB

118.079' N69°42'02"W

115.079' N69°42'02"W

EIP

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

03-DEC-2007 15:53
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proroads 8.11.01 (06.10)

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-53/CONST J8 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

GRADING ONLY

-Y8RPB-

PIs Sta 10+43.348
Θs = 4° 39' 19.0"
Ls = 65.000
LT = 43.348
ST = 21.680

PI Sta 11+19.212
Δ = 15° 26' 11.5" (LT)
L = 107.767
T = 54.212
R = 400.000
e = 0.08

HP
-Y8RPB- STA. 10+54.182

NC GRID NAD 83

340.6m N33°

38
NORA F. SMITH
DB 1424 PG 773

27 x 10 x 1
76 mm Skimmer with 72 mm Orifice Diameter
4 m weir
ID 18.1C

39
MALCOME Z. GURLEY
DB 1044 PG 849

-L- POT Sta.142+40.000=
-Y8RPB- TS Sta.10+00.000 (14.2m LT)

-Y8RPB- SC Sta.10+65.000

36
KENNETH L. WIGGINS
DB 648 PG 95

90 m TAPER

180 m ACCELERATION LANE

86.557
N70°55'31"W

72.066
S88°08'18"W

348.698
N20°00'00"E

141 142 143 144

(CHORD)

LATERAL BASE DITCH SEE DETAIL E

PSH SEE DETAIL F

SHOULDER BERM GUTTER -L- STA. 140+20 TO 142+19

GRAU 350

10.833m (TYP.)

SPECIAL CUT DITCH SEE DETAIL A

-Y8RPB-

MATCHLINE -L- STA. 140+40 SEE SHEET 17

MATCHLINE -L- STA. 144+00 SEE SHEET 19

SLOPE= 0.09%

SLOPE= 0.53%

SLOPE= 0.52%

S 68°04' 11.0" E

END PAVING
-L- STA.143+67.000

BEGIN GRADING ONLY
-L- STA.143+67.000

(FUTURE) GUIDERAIL

6 x 2 x 1
ID 18.2F

Δ S 65° 45' 22.0" E

CAT-1

SHOULDER BERM GUTTER -L- STA. 139+27 TO 142+19

1.8 TONS CL B RIPRAP W/5.9 SM FIL FAB

-Y8RPC-

-L- POT Sta.142+00.000=
-Y8RPC- POT Sta.10+00.000 (14.2m RT.)
Δ = 2° 18' 49.0"

-Y8RPC- SC Sta.11+12.493

-Y8RPC- TS Sta.10+47.493

-Y8RPC- CS Sta.11+74.348

LP
-Y8RPC- STA. 11+33.929

HP
-Y8RPC- STA. 10+67.569

35
GEORGE MEADE BEST
DB 854 PG 681

22 x 7 x 1
64 mm Skimmer with 64 mm Orifice Diameter
3 m weir
ID 18.3F

38
NORA F. SMITH
DB 1424 PG 773

CAROLINA POWER & LIGHT

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

03-DEC-2007 15:54
dgn:\tippro3.dgn
prd:\microstation v8 (rel 2)\win32\mdlapps\rdprep.ma
rdp:\projects\environmental\design\r-2554ba_rdp_psh_18.dgn

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-54/CONST.19 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

-Y8RPB-
PI Sta 11+19.019
Δ = 15°26'11.5" (LT)
D = 87°33'50.0"
Lc = 65.000
Ls = 43.348
T = 54.215
ST = 21.680
R = 400.000
e = 0.08

PI Sta 11+94.448
D = 49°33'50.0"
Lc = 65.000
Ls = 43.348
ST = 21.680

PI Sta 13+10.981
D = 5°43'50.0"
Lc = 46.000
Ls = 30.015
ST = 15.014

PI Sta 13+73.533
Δ = 15°38'24.3" (RT)
D = 5°43'50.0"
Lc = 46.000
Ls = 30.015
R = 1000.000
e = 0.065

PI Sta 14+21.644
D = 5°43'50.0"
Lc = 46.000
Ls = 30.015
ST = 15.014

-Y8RPA-
D = 4°08'16.9"
Lc = 65.000
Ls = 43.346
ST = 21.677

Δ = 3°37'21.38" (RT)
D = 28.648
L = 154.836
R = 400.000
e = 0.08

D = 6°52'00"
Lc = 65.000
Ls = 43.345
ST = 21.677

-Y8- POT Sta.17+07.000
-Y8RPA- Sta.14+71.245
-Y8RPB- Sta.14+78.566

MATCHLINE -Y8- STA. 17+80 SEE SHEET 31

44 x 15 x 1
(2) 76 mm Skimmers
with 76 mm
Orifice Diameters
5 m weir
ID 19.1F

14 x 4 x 1
ID 19.4F

-Y8RPA- ST Sta.14+39.493

-Y8RPA- CS Sta.13+74.493

-Y8RPA- SC Sta.11+12.479

-Y8RPB- ST Sta.12+37.767

-Y8RPB- CS Sta.11+72.767

-Y8RPB- ST Sta.14+51.630

-Y8RPB- CS Sta.14+06.630

-Y8RPB- SC Sta.13+39.966

-Y8RPB- TS Sta.12+94.966

-Y8- POT Sta.15+85.032 =
-L- POT Sta.146+62.803
Δ = 72°10'39.0"

-Y8RPC- ST Sta.12+39.348

POT -Y8- Sta.14+65.000 =
-Y8RPC- Sta.14+40.558
-Y8RPD- Sta.15+27.301

-Y8RPC- 478.000
Yds (BEAT IT)

-Y8RPD- ST Sta.10+65.000

-Y8RPD- TS Sta.10+95.000

-Y8RPD- SC Sta.11+60.000

-Y8RPD- CS Sta.12+17.469

-Y8RPD- ST Sta.12+82.469

-Y8RPD- TS Sta.13+12.469

-Y8RPD- SC Sta.13+57.469

-Y8RPD- CS Sta.14+50.214

-Y8RPD- ST Sta.14+95.214

-L- TS Sta.146+90.311

-L- SC Sta.147+75.311

-L- Sta.144+74.609

-Y8- Sta.15+48.572

-Y8RPD- STA.11+42.941

-Y8RPD- STA. 12+22.075

-L- STA. 144+00 SEE SHEET 18

MATCHLINE -L- STA. 151+00 SEE SHEET 20

MATCHLINE -Y8- STA. 14+00 SEE SHEET 30

N 43°48'40.7"W
N 85°37'38.3"W
S 68°04'11.0"E
S 49°36'15.9"E
N 65°14'50.0"W
S 80°29'19.6"W
N 68°10'59.2"E

6 x 2 x 1
ID 19.2F

24 x 8 x 1
64 mm Skimmer
with 64 mm
Orifice Diameter
4 m weir
ID 19.3F

16 x 8 x 1
64 mm Skimmer
with 57 mm
Orifice Diameter
4 m weir
ID 19.5C

7.2 TONS CL B RIPRAP W17.6 SW FIL FAB

7.3 TONS CL B RIPRAP W17.6 FIL FAB

10.0 TONS CL B RIPRAP W23.4 SW FIL FAB
RIPRAP ON BANKS ONLY

1.8 TONS CL B RIPRAP W17.9 SW FIL FAB

3.5 TONS CL B RIPRAP W9.5 SY FIL FAB

100mm MONOLITHIC CONCRETE ISLAND

END PROPOSED PAVEMENT BEGIN GRADING ONLY -Y8RPA- STA.14+52.000

END PROPOSED PAVEMENT BEGIN GRADING ONLY -Y8RPD- STA.15+03.000

LATERAL BASE DITCH SEE DETAIL D

LATERAL BASE DITCH SEE DETAIL L

LATERAL V DITCH SEE DETAIL I

LATERAL V DITCH SEE DETAIL C

LATERAL V DITCH SEE DETAIL A

SPECIAL CUT DITCH SEE DETAIL A

SPECIAL MEDIAN CUT DITCH SEE DETAIL B

TIE DITCH ALONG FALSE CUT TO SPECIAL CUT DITCH

PROP. FALSE CUT SEE STD.225.01

PROP. FALSE CUT SEE STD.225.02

FILL DITCH

(FUTURE) GUIDERAIL

(FUTURE) ATTENUATOR

(FUTURE SHOULDER BERM, GUIDERAIL -Y8RPA- STA. 12+68.10 TO 14+61.21

INVERT CAN BE RAISED TO 36.000 WITH A BERM FOR WATER RETENTION, IN GORE AREA

55mR-20mR-55mR 12m OFFSET

55mR-28mR-55mR 10m OFFSET

55mR-20mR-55mR 10m OFFSET

A B C D

HP -Y8- STA. 15+48.572

HP -Y8RPD- STA.11+42.941

LP -Y8RPD- STA. 12+22.075

LP -Y8RPA- STA. 11+70.652

HP STA. 144+74.609

GRADING ONLY

-Y8RPC-
PI Sta 11+96.025
D = 4°08'16.9"
Lc = 65.000
Ls = 43.345
ST = 21.677

-L-
PI Sta 147+46.982
D = 1°06'24.0"
Lc = 65.000
Ls = 59.241
ST = 28.337

PI Sta 149+88.602
Δ = 20°44'59.8" (LT)
L = 91.302
R = 252.000
R = 1257.000
e = 0.05

-Y8RPD-
PI Sta 10+21.668
D = 1°42.44.9"
Lc = 65.000
Ls = 43.335
ST = 21.668

PI Sta 11+38.743
D = 4°29'31.2"
Lc = 65.000
Ls = 43.414
ST = 21.675

PI Sta 11+88.766
Δ = 5°32'01.8" (LT)
L = 97.465
R = 1009.766
R = 900.000
e = 0.075

PI Sta 12+39.144
D = 6°37'01.2"
Lc = 65.000
Ls = 43.343
ST = 21.675

PI Sta 13+46.484
D = 3°38'18.1"
Lc = 46.000
Ls = 30.015
ST = 15.014

PI Sta 14+04.489
Δ = 53°06'14.2" (RT)
L = 99.745
R = 107.000
R = 230.000
e = 0.065

PI Sta 14+65.228
D = 3°38'18.1"
Lc = 46.000
Ls = 30.015
ST = 15.014

| | | |
|---|---|---|
| 65 | 104 | |
| 20 | 32 | 13 / 19 |
| 243 | 415 | 222 / 379 |
| 23 | 36 | 9 / 12 |
| | 65 | 101 |

US 70

2008 ADT
2028 ADT
(IN HUNDREDS)

SR 1556 (WAYNE MEMORIAL)

PROJECTED TRAFFIC VOLUMES

BEGIN APPROACH SLAB -Y8- STA.15+51.480
BEGIN BRIDGE -Y8- STA.15+55.732
END BRIDGE -L- STA.16+13.632
END APPROACH SLAB -Y8- STA.16+17.884

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

1/30/2019
8/10/2018
15455_CONST.dgn
jjones
$cellset#=$cellset#+1
$cellset#=$cellset#+1

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-55/CONST.20 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R /W REV. | |

METRIC

5 0 10

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-L- POC Sta.151+70.000=
-Y8RPA- POT Sta.10+00.000 (14.2 m LT.)

-L- POC Sta.152+00.000
-Y18- PCSta.10+00.000 (35.3 m LT.)

-Y18- PTSta.10+63.659

-Y18- POTSta.11+26.926

NC GRID NAD 83

901 NCDOT DB 1472 PG 411

ALBERT ONEIL SMITH DB 827 PG 742

JAMES ONEIL SMITH DB 1801 PG 785

37

8 x 2 x 1 ID 20.2F

TAIL BASE DITCH SEE DETAIL J

-Y8RPA- TS Sta.10+47.479

8 x 2 x 1 ID 20.1F

LINDA A. CORRIERE DB 1461 PG 655

918

SPECIAL CUT DITCH SEE DETAIL H

-L- ST Sta.152+82.221

JAMES A. ADAMS, JR. DB 2206 PG 608

49

CARRIE MAE LEWIS PC E SLIDE 21

REEDY BRANCH

47

ROBERT R. EARNEST DB 834 PG 484 DB 795 PG 726

NO ASSOCIATED PIPING FOUND FOR WMS IN THIS AREA.

-L- +82.221
45m (147.64 ft)

GRADING ONLY

NCDOT DB 1744 PG 533

30

41

DAVID KENNEDY DB 823 PG 873 DB 2190 PG 674

TOE PROTECTION SEE DETAIL Q

PSH SEE DETAIL F

FUTURE SHOULDER BERM GUTTER -L- STA. 152+88 TO 153+02

-L- +02.660
17.2m (56.43 ft) RT
END WW FENCE

-L- POT Sta.153+83.247
END RIGHT-OF-WAY ACQUISITION

SPECIAL CUT DITCH SEE DETAIL A

(FUTURE) CAT-1

(FUTURE) B-77

(FUTURE) GUIDERAIL

(FUTURE) TYPE M350

SPECIAL MEDIAN CUT DITCH SEE DETAIL B

(FUTURE) GRAU 350

7.3 TONS CL B RIPRAP W/17.6 SM FIL FAB

CUT/FILL TRANSITION 1.8 TONS CL B RIPRAP W/5.9 SM FIL FAB

300m ACCELERATION LANE

FUTURE SHOULDER BERM GUTTER -L- STA. 152+72 TO 152+85

FUTURE SHOULDER BERM GUTTER -L- STA. 152+79 TO 152+92

ROBERT R. EARNEST DB 1216 PG 878

JAMES A. GILLS DB 1637 PG 791

8 x 4 x 1 38 mm Skimmer with 31 mm Orifice Diameter 2 m weir ID 20.3C

21 x 7 x 1 64 mm Skimmer with 64 mm Orifice Diameter 3 m weir ID 20.1C

21 x 10 x 1 76 mm Skimmer with 66 mm Orifice Diameter 4 m weir ID 20.2C

-L- POC Sta.151+19.886=
-Y8RPD- CS Sta.10+00.000 (14.2m RT.)

-Y8RPA-
PI Sta 10+90.824
Δs = 4° 08' 16.9"
Ls = 65.000
LT = 43.345
ST = 21.677

-Y18-
PI Sta 10+31.949
Δ = 12° 09' 28.1" (LT)
L = 63.659
T = 31.949
R = 300.000

-L-
PI Sta 149+88.602
Δ = 20° 44' 59.6" (LT)
L = 421.909
T = 213.291
R = 1165.000
e = 0.05

Pls Sta 152+25.558
Δs = 2° 05' 24.7"
Ls = 85.000
LT = 56.671
ST = 28.337

-Y8RPD-
Pls Sta 10+21.668
Δs = 1° 34' 44.9"
Ls = 65.000
LT = 43.335
ST = 21.668

GRADING ONLY

LP
-L- CS Sta.151+97.221

901 NCDOT DB 1472 PG 411

914 NCDOT DB 1780 PG 666

912 NCDOT DB 1744 PG 533

END WW FENCE

-L- +50.00
60m (196.86 ft)

STA. 152+90.000 -L- END TIP PROJECT R-2554BA

STA. 153+02.765 -L- END CONSTRUCTI

NOTE:
UTILIZE TEMPORARY ROCK SILT CHECK TYPE – A AND SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

MATCHLINE -L- STA. 151+00 SEE SHEET 19

8/17/98

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Bentley Systems, Inc.
\\environmental\design\2554ba_env_rdy_psh_20.dgn

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-56/CONST.21 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

JAMES B. MALPASS & WIFE
JANET H. MALPASS
DB 716 PG. 462

LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777

NC GRID NAD 83

81 82 83

99.86l N12°56'35"W

78.27l N12°59'52"W

0.80 R/W TO CONC. MON.

CONC. MON.

EP

R/W

105l

AXEL

L-L85 AXLE TO BACK AXLE

SR 1300 SALEM CHURCH RD 72 BST

450mm

BDOS

90m TAPER

180m ACCELERATION LANE

9 x 3 x 1
ID 21.2C

13 x 4 x 1
ID 21.1F

450mm CSP

3.6m

12m R.S.

375mm RETAIN

USII7 SBL

USII7 NBL

RETAIN SYSTEM

750mm

2GI

EXIST. CABLE GUIDERAIL

N 34° 47' 00.00" E

-L2-

600mm

2GI TYPE A

FS

G.T.D.

2GI TYPE D

SPECIAL CUT DITCH SEE DETAIL A

12 x 2 x 1
ID 21.3F

12 x 2 x 1
ID 21.2F

REMOVE 2GI

COLLAR

-L2RPDB-

9150m (TYP.)

N 54° 00' 00.0" E

-L2RPDB- ST Sta.1+94.158

-L2RPDB- SC Sta.0+60.000

-L2RPDB- CS Sta.1+34.158

-L2RPDB- TS Sta.2+11.403

7 x 3 x 1
ID 21.3C

300mm CSP

12.0m (TYP.)

-L2- POT Sta.81+22.228=
-L2RPDB- TS Sta.0+00.000 (14.2m RT.)

BEGIN CONSTRUCTION
-L2- POT STA.81+22.227

22.601 N20°53'15"E
11.602 N56°10'33"E
16.968 N18°21'11"E
26.607 N40°16'38"E
11.882 S41°51'39"E
16.467 S20°51'42"E
10.387 N39°57'29"E
23.067 S80°58'41"E
28.303 S53°37'16"E
12.226 N47°30'45"E
12.624 N28°40'34"E
3.571 N61°19'26"W
5.000 S28°40'34"W
12.624 S28°40'34"W
12.884 S28°29'26"E

400mm CSP W/ 2 ELBOWS

400mm CSP W/ 2 ELBOWS 2GI

SALEM CHURCH ROAD, SR 1300

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

GORDON H. LEWIS & WIFE
LILLIAN E. LEWIS
DB 577 PG. 154

NORTH CAROLINA POWER AND LIGHT
36,576 EASEMENT

S72°08'58"E

15,240 NBF

TUNA NATURAL GAS EASEMENT

MATCHLINE -L2- STA. 83+60 SEE SHEET 22

MATCHLINE -L2RPDB- STA. 2+40 SEE SHEET 22

8/17/99

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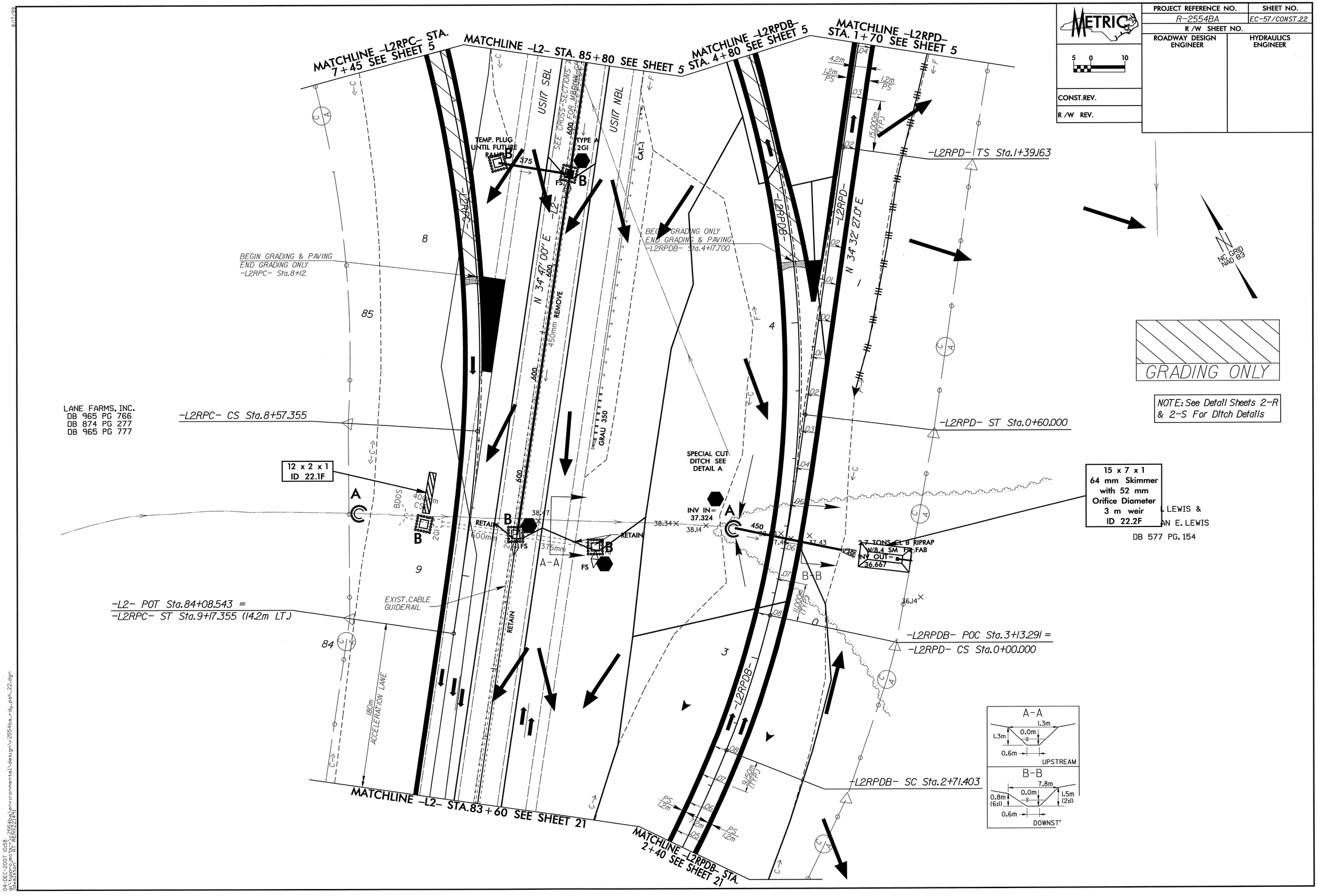

METRIC
PROJECT REFERENCE NO.
R-2554BA
SHEET NO.
EC-57/CONST.22
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
MATCHLINE -L2RPC- STA. 7+45 SEE SHEET 5
MATCHLINE -L2- STA. 85+80 SEE SHEET 5
MATCHLINE -L2RPDB- STA. 4+80 SEE SHEET 5
MATCHLINE -L2RPD- STA. 1+70 SEE SHEET 5
MATCHLINE -L2- STA.83+60 SEE SHEET 21
MATCHLINE -L2RPDB- STA. 2+40 SEE SHEET 21
US117 SBL
US117 NBL
TEMP. PLUG UNTIL FUTURE RAMP
TYPE A 2GI
SEE CROSS-SECTIONS A FOR MEDIAN GRADE
CAT-1
N 34° 47' 00" E
N 34° 32' 27.0" E
BEGIN GRADING & PAVING
END GRADING ONLY
-L2RPC- Sta.8+12
BEGIN GRADING ONLY
END GRADING & PAVING
-L2RPDB- Sta.4+17.700
-L2RPD- TS Sta.1+39.163
-L2RPC- CS Sta.8+57.355
-L2RPD- ST Sta.0+60.000
-L2- POT Sta.84+08.543 =
-L2RPC- ST Sta.9+17.355 (14.2m LT.)
-L2RPDB- POC Sta.3+13.291 =
-L2RPD- CS Sta.0+00.000
-L2RPDB- SC Sta.2+71.403
LANE FARMS, INC.
DB 965 PG 766
DB 874 PG 277
DB 965 PG 777
12 x 2 x 1
ID 22.1F
15 x 7 x 1
64 mm Skimmer
with 52 mm
Orifice Diameter
3 m weir
ID 22.2F
DB 577 PG. 154
SPECIAL CUT DITCH SEE DETAIL A
INV IN= 37.324
2.7 TONS CL B RIPRAP W/8.4 SM FR FAB
INV OUT= 36.667
EXIST.CABLE GUIDERAIL
180m ACCELERATION LANE
RETAIN
REMOVE
GRAU 350
450mm
600mm
375mm
A-A
B-B
UPSTREAM
DOWNSTR
NC GRID NAD 83
GRADING ONLY
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

8/17/99

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brennapoole AT RENV221445

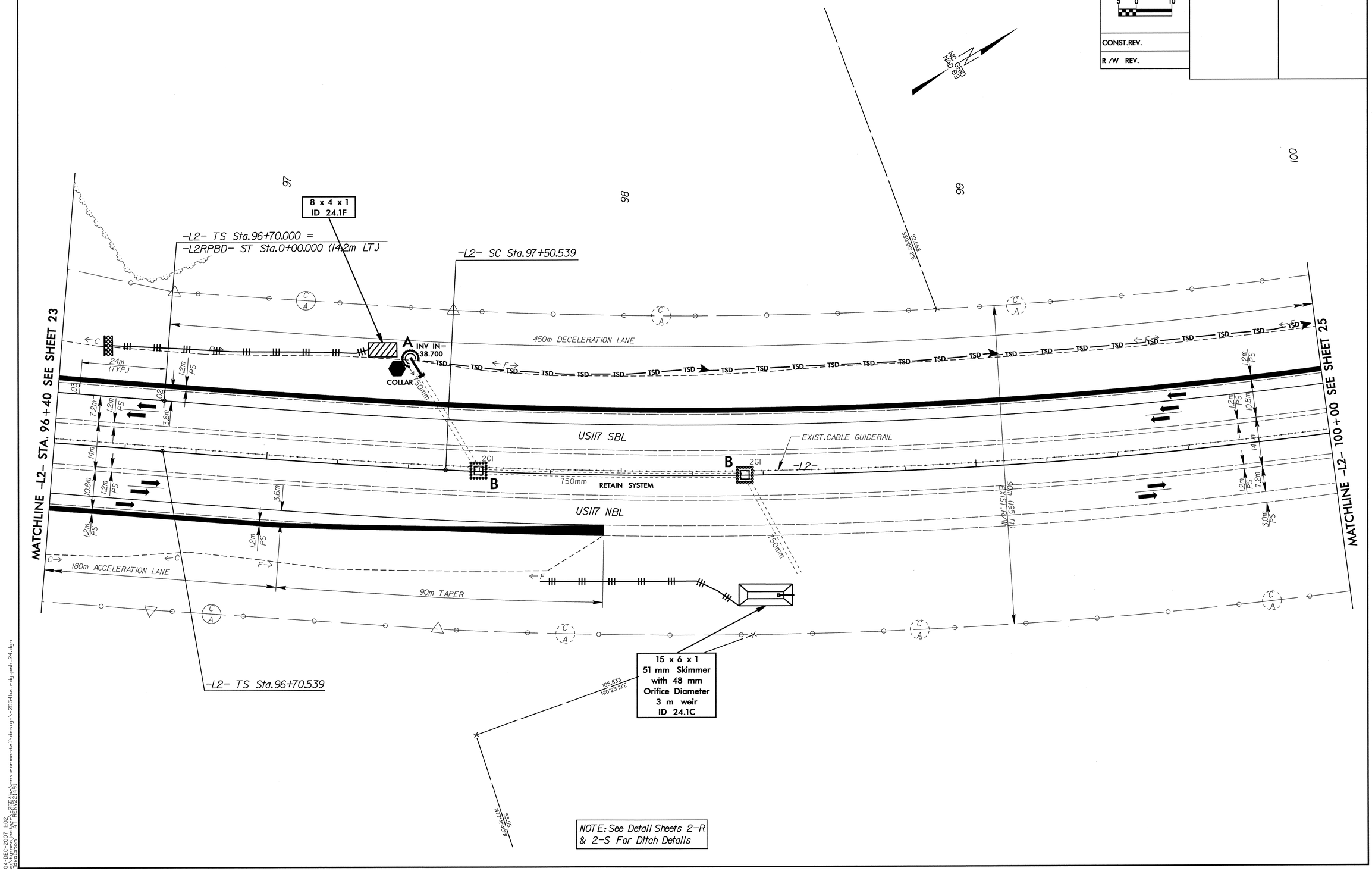
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-59/CONST.24 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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jdwalston AT REN22141

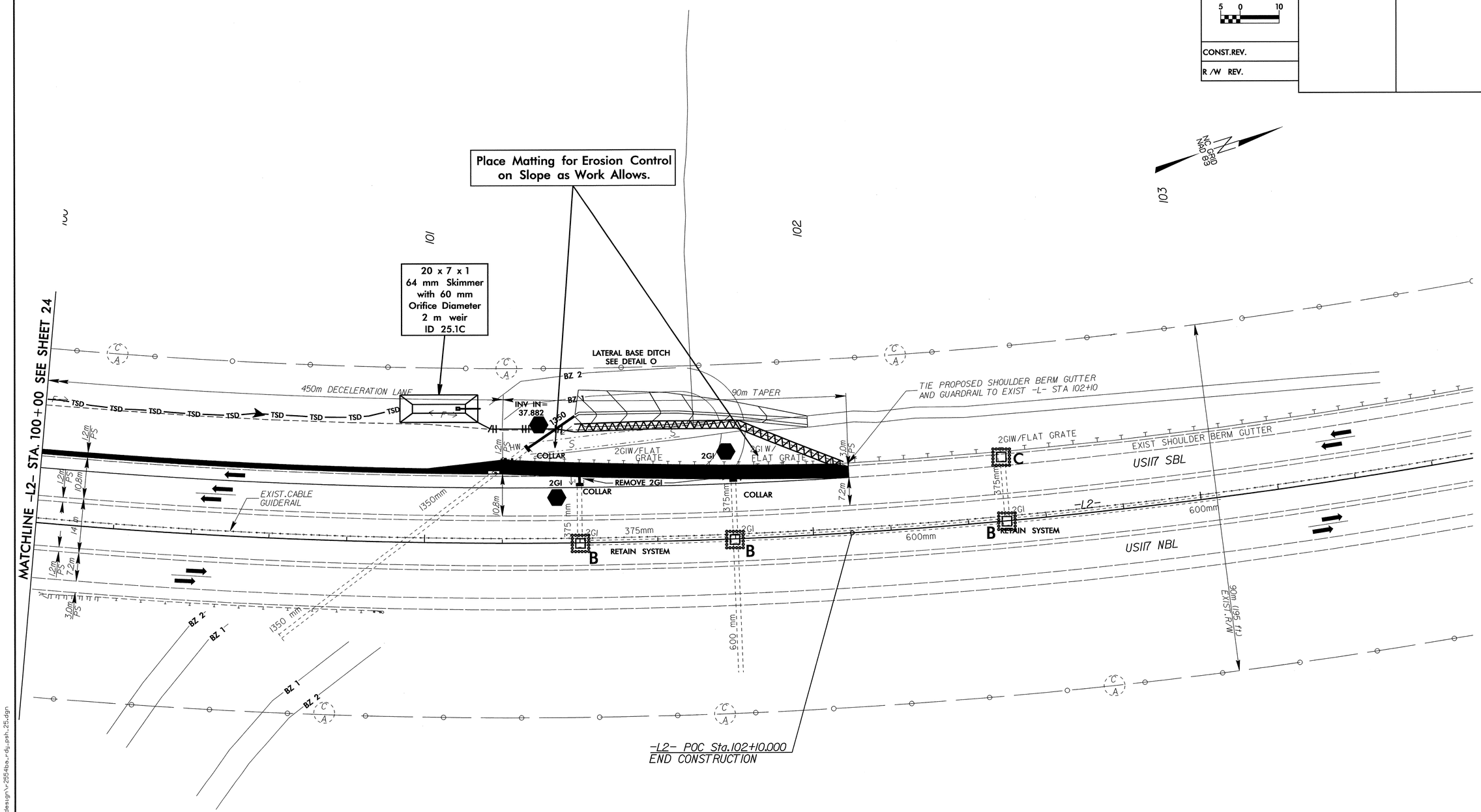
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-60/CONST.25 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.




NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

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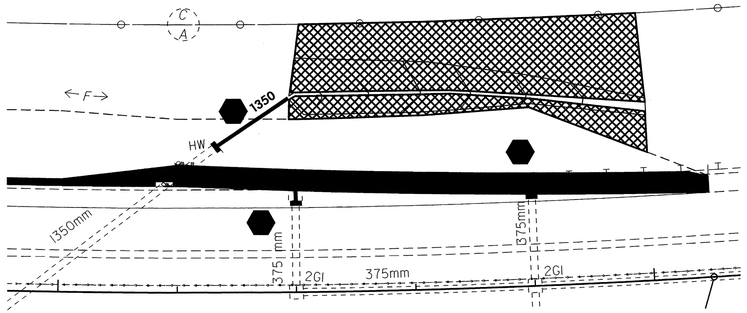
jdwalston AT RENV22149

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-6I/CONST.25 |
| | R /W SHEET NO. | |
| | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

# 0.1 HECTARE STREAMBANK REFORESTATION




## SEE RF–2, RF–3 AND PROJECT SPECIAL PROVISIONS

| METRIC 5 0 10 | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| | R-2554BA | EC-62/CONST.26 |
| CONST.REV. | R /W SHEET NO. | |
| R /W REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

-Y2C-
PI Sta 10+33.323
Δ = 18° 27' 57.5" (RT)
L = 24.172
T = 12.192
R = 75.000

-EY2-
PI Sta 12+09.420
Δ = 9° 25' 07.271" (RT)
L = 213.703
T = 52.268
R = 1000.000

PI Sta 15+09.310
Δ = 5° 59' 02.430" (LT)
L = 104.393
T = 107.093
R = 1300.000

PI Sta 24+30.612
Δ = 5° 20' 00.714" (RT)
L = 195.484
T = 97.813
R = 2100.000

NC GRID NAD 83

10 x 5 x 1
51 mm Skimmer
with 51 mm
Orifice Diameter
2 m weir
ID 26.3F

16 x 6 x 1
51 mm Skimmer
with 49 mm
Orifice Diameter
2 m weir
ID 26.2F

-Y2- TS Sta.10+87.084

-Y2- SC Sta.11+32.084

-EY2- PT Sta.25+28.283

-Y2- POT Sta.10+00.000
-EY2- POT Sta.26+58.734

-Y2C- POT Sta.10+00.000

-Y2C- BEGIN CONSTRUCTION

-Y2C- PT Sta.10+45.303

-Y2C- POT Sta.10+50.427=
-Y2- POT Sta.12+22.000

-Y2C- PC Sta.10+21.131

-Y2- | +14.928
51.844m (170.09 ft)

-Y2- ST Sta.12+90.193

-Y2- CS Sta.12+45.193

-Y2- STA. 13+35 SEE SHEET 27

LP
-Y2- STA. 10+95.333

HP
-Y2- STA. 11+68.481

LP
-Y2- STA. 12+78.271

-Y2C- +08.000
5m (16.40 ft)

-Y2C- +18.000
6m (19.685 ft)

-Y2C- +28.786
10.400m (34.12 ft)

-Y2C- +08.000
5m (16.40ft)

-Y2C- +20.000
7m (22.97 ft)

-Y2C- +28.658
13.500m (44.29 ft)

-Y2- +87.084
12m (39.37 ft.)
9.144m (29.99 ft)

-Y2- +32.011
18m (59.06ft)

-Y2- +32.084
12m (39.37 ft.)

-Y2- +80.000
13.986m (45.89 ft.)

-Y2- +00.000
10.400m (34.12 ft)

-Y2- +87.084
15m (49.21 ft.)
9.144m (29.99 ft.)

-Y2- +60.000
ON R/W

-Y2- +32.084
18m (59.06 ft.)

-Y2- +32.084
10m (32.08 ft.)

-Y2- +00.000
12m (39.37 ft.)

-Y2- +00.000
15m (49.21 ft.)

-Y2- +17.660
18.5m (60.70ft)

-Y2- +44.000
27m (88.58ft)

-Y2- +90.000
30m (98.43ft)

-Y2- +77.000
25m (82.02ft)

-Y2- +78.00
37m (121.39ft)

-Y2- +90.000
36m (118.11ft)

REMOVE EXIST. CULVERT
EXCAVATE TO
MATCH EXIST. CHANNEL

SPECIAL CUT DITCH
SEE DETAIL A

EX R/W CURVE DATA
RADIUS : 2090.856m LT.
CHORD BEARING : N 03°23'13" E
CHORD DISTANCE : 143.618m

T@P=37.668
INV IN=36.741
INV OUT=36.738

LATERAL V DITCH
SEE DETAIL I

SPECIAL CUT DITCH
SEE DETAIL A

PSH
SEE DETAIL F

CAT-1
PROP. RCBC
2.4m X 1.8m

LATERAL V DITCH
SEE DETAIL I

LEVEL SPREADERS
12m X 1m
0.09 cms

N 6°45'09.5" E

N 21°21'50.0" E

N 68°30'50.0" E

JAMES EDWARD (24Z)
JAMES EDWARD
DB 2202 PG 560
(24)

BEGIN CONSTRUCTION
-Y2- TS Sta.10+87.084

MANFRED TEACHEY (23Z)
MANFRED TEACHEY
DB 1175 PG 676
(23)

MILTON HEAD (22Z)
MILTON HEAD
DB 564 PG 364
(22)

JOHN M. MERRITT (21Z)
JOHN M. MERRITT
E 03E PG 667
(21)

JOHN M. MERRITT
E 03E PG 667
(20)

T. A. LOVING & CO.
DB 376 PG 406
DB 376 PG 404
DB 315 PG 31
(25)

ANDREWS FARMS
OF WAYNE CO. INC.
DB 1037 PG 181
DB 1193 PG 737
(16)

8 x 3 x 1
38 mm Skimmer
with 27 mm
Orifice Diameter
2 m weir
ID 26.2C

11 x 4 x 1
38 mm Skimmer
with 38 mm
Orifice Diameter
2 m weir
ID 26.1F

NOTE: 240m Uniform Transition -Y2- Sta.10+90 (2 lanes) to Sta.13+30 (5 lanes).

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

MATCHLINE -Y2- STA. 13+35 SEE SHEET 27

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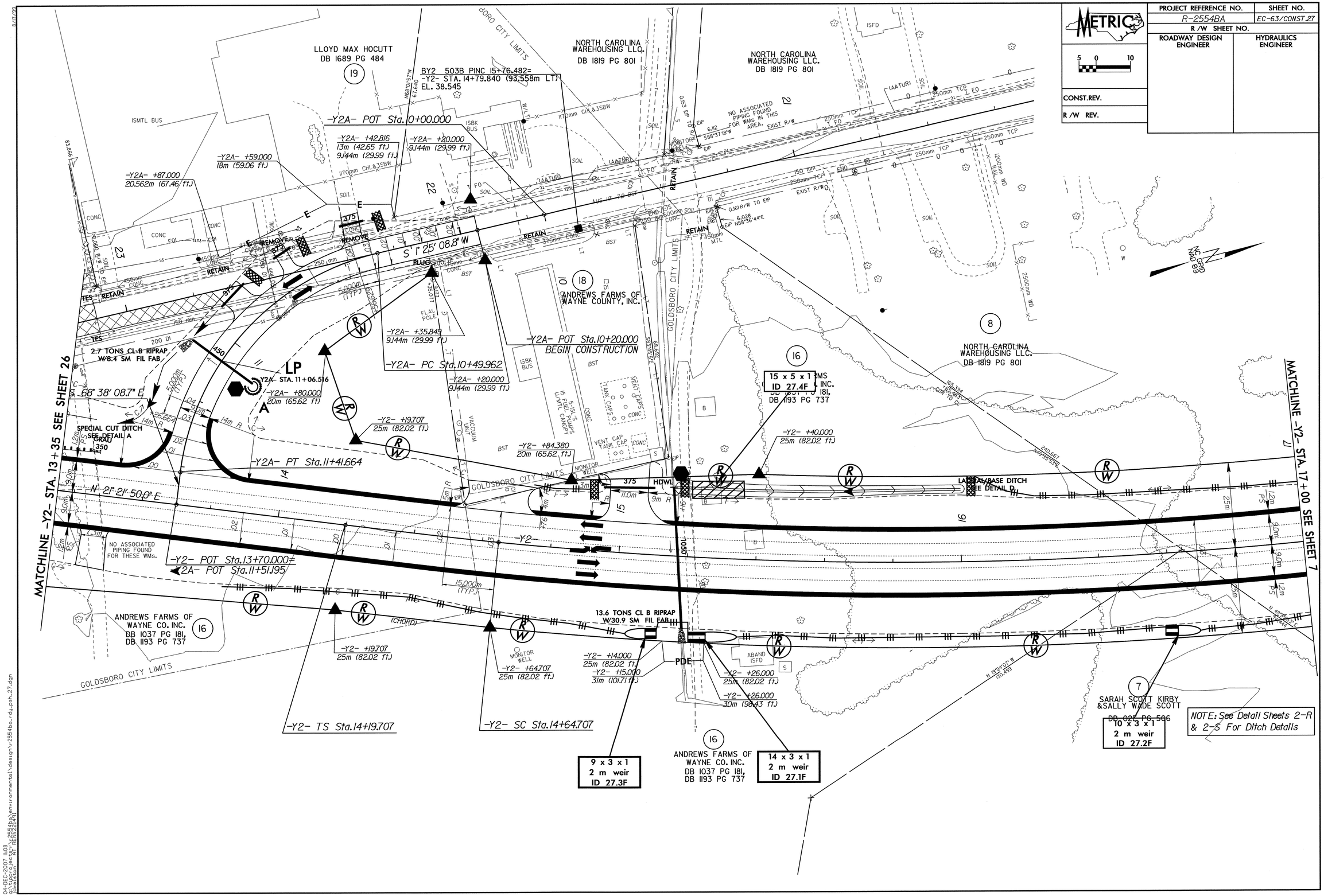
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-63/CONST.27 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R/W REV.

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jdwelston AT RENV22141

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-64/CONST.28 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

NAD 83

MATCHLINE -Y2- STA. 24+40 SEE SHEET 7

6A PATE PROPERTY MANAGEMENT, LLC DB 2354 PG 341

6B LENA D. SASSER DB 807 PG 254 DB 511 PG 521

6D GEORGE PEACOCK DB 04E PG 68

6E JOE B. BOYETT, ET AL DB 2138 PG 846

WYATT GURLEY DB 1190 PG 675

C.H. BELFAST INTERNATIONAL PENT. DB 2115 PG 421

ISBK PENTCOSTAL CHURCH

LP -Y2- STA. 24+53.750

-Y2- +61.357 20m (65.62 ft.)

-Y2- +61.357 22m (72.18 ft.)

SPECIAL CUT DITCH SEE DETAIL A (CHORD)

-Y2- +06.357 16m (52.49 ft.)

HP -Y2- STA. 25+64.521

-EY2- PC Sta.11+02.327

LP -Y2- STA. 26+13.302

-Y2- +20.000 15m (49.21 ft.)

-SR6- +35.000 7.620m (24.99 ft.) 12m (39.37 ft.)

NO ASSOCIATED PIPING FOUND FOR WMS IN THIS AREA.

GRADE TO DRAIN

N 2° 00' 56.1" W

S 2° 00' 56.1" E

-Y2- +62.487 16.4m (54.81 ft.)

-Y2- +85.881 17.0m (55.77 ft.)

-Y2- +85.884 15.223m (49.94 ft.)

-Y2- +04.172 15.5m (50.85 ft.)

-Y2- +04.178 12m (39.37 ft.)

POT Sta.26+94.861

-Y2- POT Sta.26+35.000 END CONSTRUCTION

-EY2- POT Sta.10+00.000

-Y2- +56.002 18m (59.05 ft.)

-Y2- +61.357 15m (49.21 ft.)

-Y2- +06.357 14m (45.93 ft.)

-Y2- +30.00 13.753m (45.12 ft.)

-Y2- +06.357 16m (52.49 ft.)

-Y2- +35.037 13.983m (45.87 ft.)

-Y2- +35.059 16.4m (53.68 ft.)

-Y2- CS Sta.24+61.357

-Y2- ST Sta.25+06.357

9A JAMES T. ROWE DB 1251 PG 96 DB 1064 PG 769

9B JAMES T. ROWE DB 537 PG 423

"NO CLAIM" GLADYS HINNANT DB 499 PG 387

9D DEWEY M. PATE DB 516 PG 97

9E WAYNE CO. BOARD OF EDUCATION

GPS R2554-24 5+00.000= -Y2- STA. 25+98.659 (8.436m LT) EL. 39.108

4 x 2 x 1 2 m weir ID 28.2C

11 x 3 x 1 2 m weir ID 28.1C

BASEBALL FIELD

SR 1134 SEYMOR ST 5.6 BST

US 117 10.7 BST

SR 1561 SCALE DR 5.2 BST

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: 205m Uniform Transition -Y2- Sta.24+30 (5 Lanes) to Sta.26+35 (3 Lanes).

8/17/99

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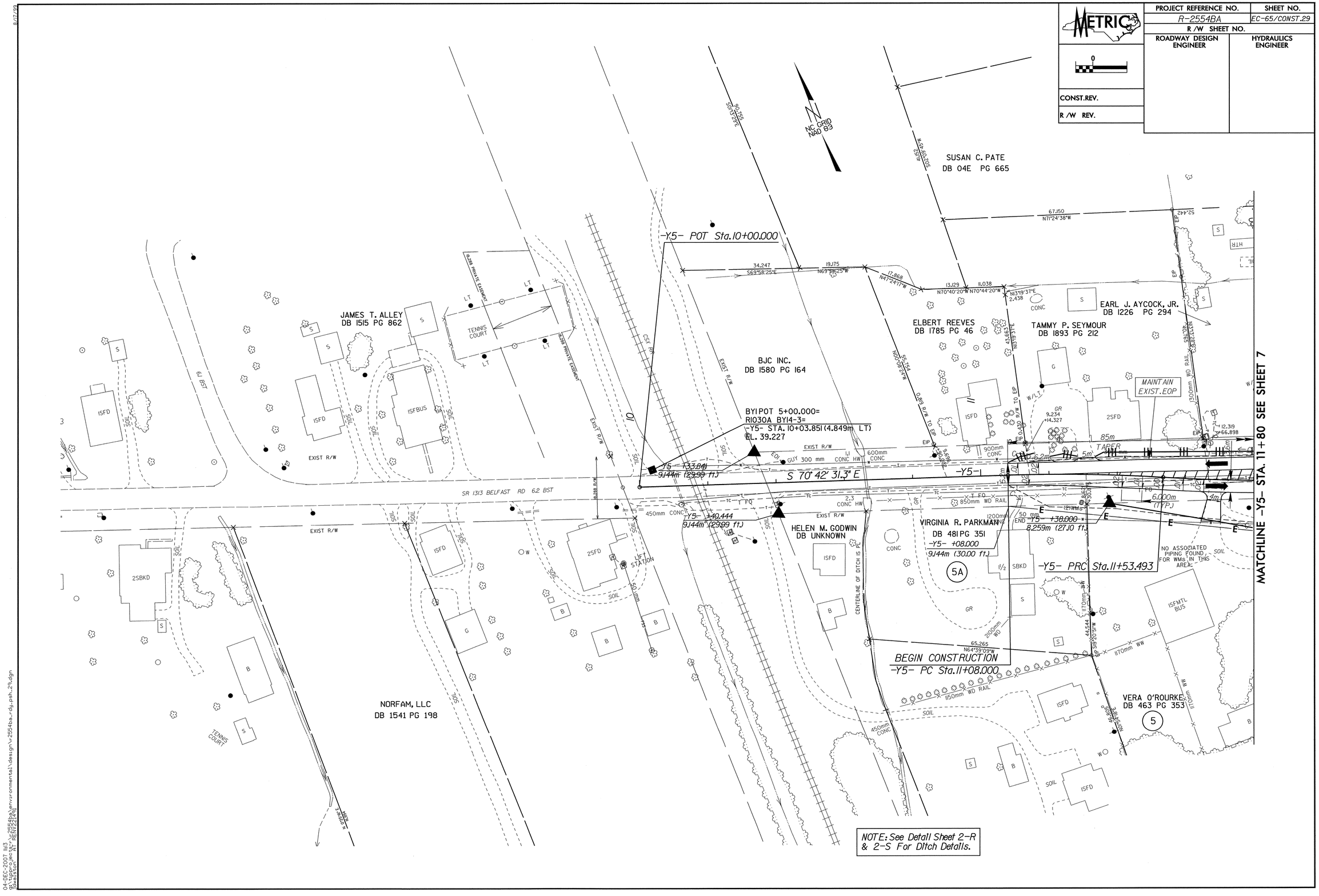
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-65/CONST.29 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

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Division AT RENV22149

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| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-66/CONST.30 |
| | R /W SHEET NO. | |
| CONST.REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| R /W REV. | | |

38
NORA F. SMITH
DB 1424 PG 773

NC GRID NAD 83

BEGIN CONSTRUCTION
-Y8- POT Sta.10+70.000

GPS R2554-32 -PINC 15+77.128=
BY10 PINC 6+57.298=
-Y8- STA. 11+00.820 (8.732m RT)
EL. 38.836

-Y8- PC Sta.11+35.847

9 x 3 x 1
2 m weir
ID 30.1F

-Y8- +60.000
9.250 (30.35 ftJ
SPECIAL CUT DITCH
SEE DETAIL A

4 x 2 x 1
ID 30.1F

-Y8- +00.000
18m (59.05 ftJ/
EXIST.R/W

-Y8- +29.355
18m (59.05 ftJ

20m TAPER

-Y8- PT Sta.12+29.355

BY8 522B -PINC 14+01.539=
-Y8- STA. 12+75.720 (6.650m LT)
EL. 40.016

-Y8- +00.000
18m (59.05 ftJ
END WW FENCE

-Y8- +00.000
21m (68.90 ftJ

-Y8- +79.000
5im (167.32 ftJ

EASEMENT FOR DETOUR
SEE DETAIL SHEET 2-N

MATCHLINE STA. -Y8- 14+00 SEE SHEET 19

SR 1556 WAYNE MEMORIAL 6.7 BST
SR 1571 TOMMY'S RD 6.4 BST
GOLDSBORO CITY LIMITS
N 30° 20' 53.0" E
N 39° 45' 10.0" E
EXIST R/W
18.288
100 mm
375mm CONC
RETAIN
REMOVE
REPEATER
MTL CANOPY
BST
CONC
ISM BUS
FUEL TANKS
RUINS
SOUTHERN BELL SUB-STATION
SPECIAL CUT DITCH
SEE DETAIL A
-Y8- +01J6
18m (59.05 ftJ\
EXIST.R/W
-Y8- +60.000
9.038 (29.65 ftJ
9 x 3 x 1
2 m weir
ID 30.2C
GHAZI CAMILLE AL-AWAR
DB 1970 PG 637
N35°25'30"E
62.495
62
CORNERSTONE DEVELOPMENT
PROPERTIES OF WAYNE COUNTY, LLC
DB 2027 PG 643
BRIAN TEACHEY
DB 1277 PG 896
GOLDSBORO CITY LIMITS
N68°30'25"E
73.563
CONC. MON
EIP
S40°26'35"W
10.667
9.040
+8.248
9.048
+0.139
9.121
+31.636
9.192
+62.045
9.366
+46.867
9.684
+89.591
-Y8-
7.2m
3.6m
5.5m
9.0m
1.2m PS
1.2m
ISBKD
ISFD
CONC
POOL
L.P. TANK
SOIL
WELL
EIP
CONC MON
S50°08'30"E
60.342
S68°06'45"E
64.499
S62°50'55"E
62.409
S62°50'55"E
24.762
S68°06'45"E
26.639
S40°03'06"W
17.446
30.447
N39°51'52"E
30.418
N39°51'54"E
1100mm CHL
50.382
N39°51'21"E
30.323
N38°15'20"E
54
MARY T. SMITH
DB 777 PG 449
53
WINFORD E. LANGSTON
DB 1134 PG 309
52
LEON J. TEACHEY
DB 777 PG 447
51
HAROLD T. ANDERSON
DB 1035 PG 355
DB 1044 PG 847
43
MALCOLM E. GURLEY
DB 648 PG 416
DB 937 PG 807
DB 1044 PG 849
4 x 2 x 1
ID 30.2F
1800mm BK/WD
1100mm CHL
1100mm WW
NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

-Y8-
PI Sta 11+82.602
Δ = 0° 35' 43.0" (LT)
L = 93.508
T = 46.754
R = 9,000.000
e = NC

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$$USER (Jeffrey A. Peterson)

8/17/99

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-67/CONST.31 |
| R /W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

METRIC

5 0 10

CONST.REV.

R /W REV.

(40)
JOAN CRUMPLER JOYNER
DB 1551 PG 491

NC GRID NAD 83

JOAN CRUMPLER JOYNER

-Y8- SC Sta.18+62.114

-Y8- +17.114
25m (82.02 ft.)
30m (98.42 ft.)

LP
-Y8- STA. 19+05.841

-Y8- CS Sta.19+58.386

SPECIAL CUT DITCH
SEE DETAIL A

-Y8- ST Sta.20+03.386

-Y8- POT Sta.21+24.769

ISBKD

EASEMENT FOR DETOUR
SEE DETAIL SHEET 2-O & 2-P

140m UNIFORM TRANSITION

45m TAPER

85m STORAGE LENGTH

-Y8- +62.114
18m (59.05 ft.)
END WW FENCE

NO ASSOCIATED PIPING FOUND FOR WMs IN THIS AREA.

LATERAL BASE DITCH
SEE DETAIL D

-Y8- +58.386
18m (59.05 ft.)

20m TAPER (CHORD)

-Y8- +03.386
18m (59.05 ft.)/
9.251m (30.35 ft.)

MATCHLINE -Y8- STA. 17+80 SEE SHEET 19

-Y8DET-

EXIST R/W

REMOVE 375mm CONC

N 39° 45' 10.0" E

N 35° 07' 38.9" E

SR 1556 WAYNE MEMORIAL 67 BST

-Y8- TS Sta.18+17.114

22.500m (TYP.)

-Y8- +60.000
18m (59.05 ft.)
BEG. WW FENCE

-Y8- +17.114
25m (82.02 ft.)

CONC HTR DK WD

48
TERRY BOYETTE
92CV PG 1642

910 NCDOT DB 1848 PG 340

43B
HUGH E. ROBERTS
DB 2262 PG 368

BY8 520B -PINC 8+93.970=
-Y8- STA. 17+82.820 (6.296m RT)
EL. 38.373

-Y8- +58.386
18m (59.05 ft.)

HUGH E. ROBERTS
DB 1232 PG 52
DB 1265 PG 97
DB 1237 PG 350
50

BY8 519B-PINC 6+82.971=
-Y8- STA. 19+93.297 (8.223m RT)
EL. 39.688

-Y8- Sta.19+95.000
END CONSTRUCTION

-Y8- +95.294
18m (59.06 ft.)

-Y8- +95.899
9.023m (29.60 ft.)

SR 1662 WOODSIDE DR 58 BST

5.5 CONC ISBKD

NO ASSOCIATED PIPING FOUND FOR WMs IN THIS AREA.

ROBERT PERSON
DB 1671 PG 340

JAMES D. ETHERIDGE
DB 778 PG 62

JOHN CHAPMAN
DB 1718 PG 957

SHIRLEY A. LOCKLAIR
DB 1638 PG 596

ROBERT PERSON
DB 1505 PG 753

NOTE: See Detail Sheets 2-R & 2-S For Ditch Details

NOTE: 140m Uniform Transition -Y2- Sta.17+40.513 (3 Lanes) to Sta.18+80.513 (2 Lanes).

-Y8-

| | | |
|---|---|---|
| PIs Sta 18+47.114 | PI Sta 19+10.262 | PIs Sta 19+73.386 |
| θs = 0° 44' 12.0" | Δ = 3° 09' 07.1" (LT) | θs = 0° 44' 12.0" |
| Ls = 45.000 | L = 96.272 | Ls = 45.000 |
| LT = 30.000 | T = 48.148 | LT = 30.000 |
| ST = 15.000 | R = 1,750.000 | ST = 15.000 |
| | e = 0.02 | |

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Bentley Systems, Inc. Haestad Methods SELECTseries 1 (08.11.01.03)

# DETOUR

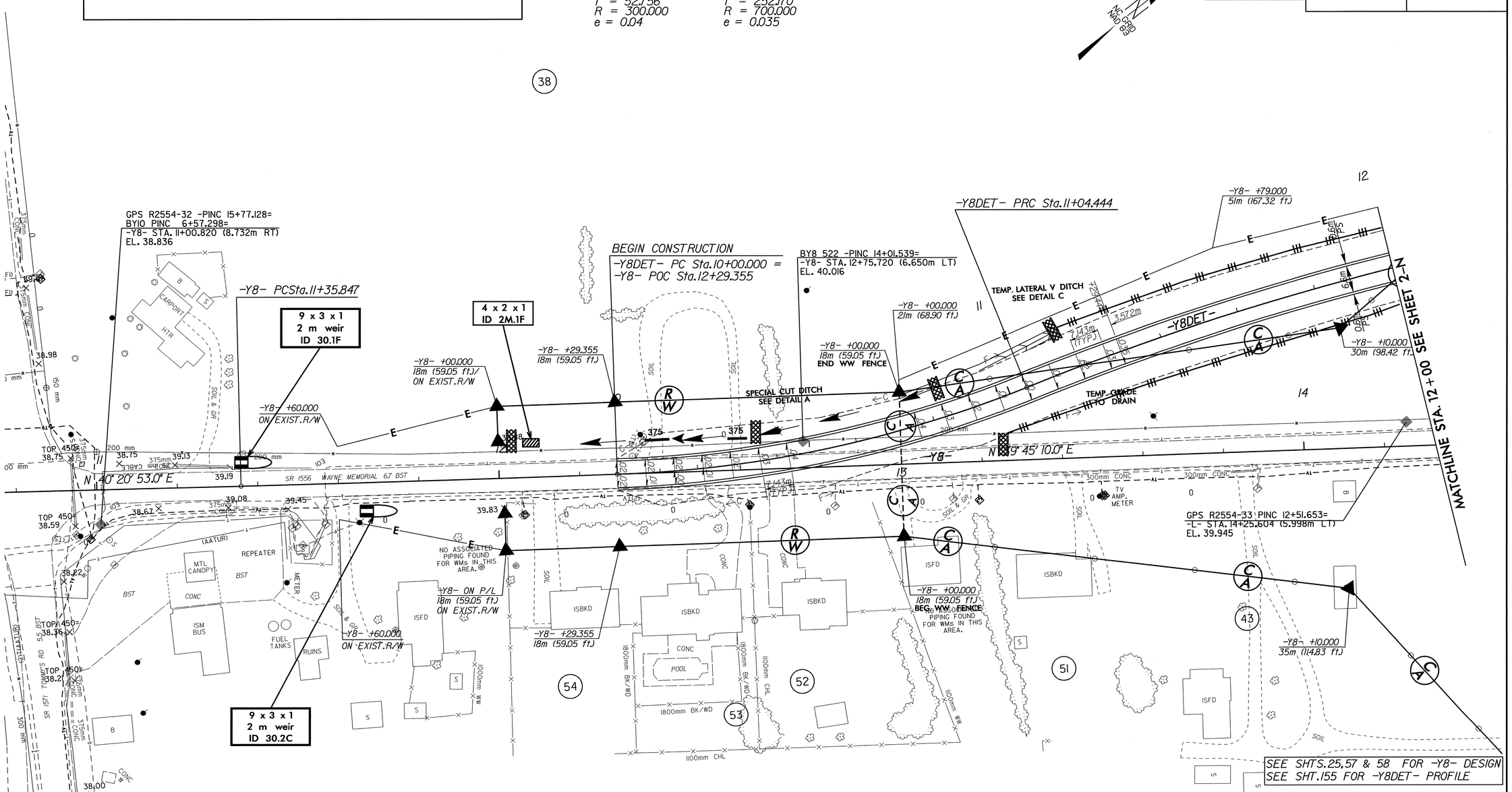
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-2554BA | EC-68/CONST.2-M |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| CONST.REV. | |
| R/W REV. | |

METRIC

5 0 10

-Y8DET-

| PI Sta 10+52.756 | PI Sta 13+56.614 |
|---|---|
| Δ = 19° 56' 50.4" (LT) | Δ = 39° 37' 20.6" (RT) |
| L = 104.444 | L = 484.079 |
| T = 52.756 | T = 252.170 |
| R = 300.000 | R = 700.000 |
| e = 0.04 | e = 0.035 |




-Y8-

PI Sta 11+82.602
Δ = 0° 35' 43.0" (LT)
L = 93.508
T = 46.754
R = 9,000.000
e = NC

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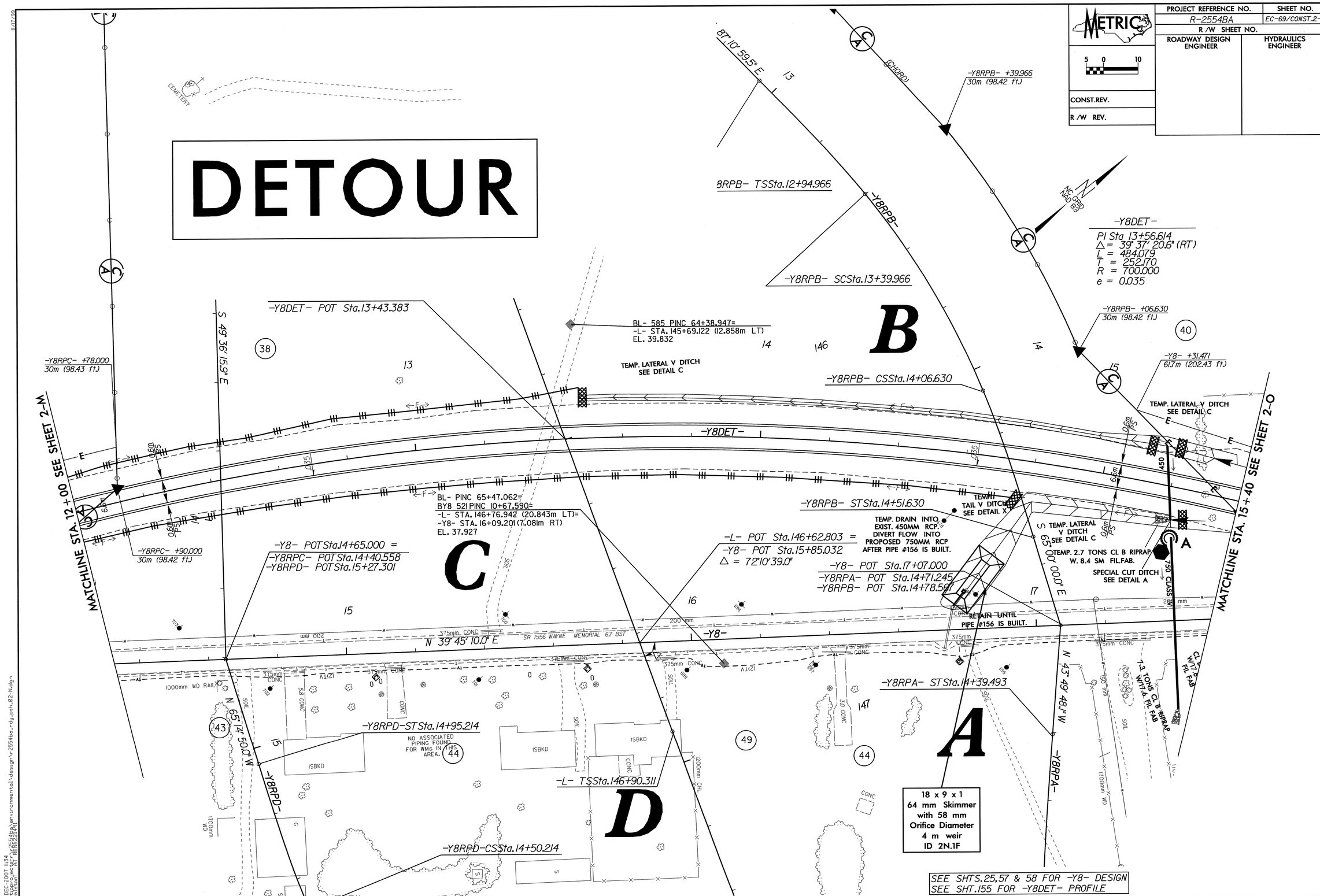
jdwalston AT REN22149



METRIC
PROJECT REFERENCE NO.
R-2554BA
SHEET NO.
EC-69/CONST.2-N
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
DETOUR
-Y8DET-
PI Sta 13+56.614
Δ = 39° 37' 20.6" (RT)
L = 484.079
T = 252.170
R = 700.000
e = 0.035
-Y8RPB- +39.966
30m (98.42 ft.)
-Y8RPB- TSSta.12+94.966
-Y8RPB- SCSta.13+39.966
-Y8RPB- +06.630
30m (98.42 ft.)
-Y8- +31.471
61.7m (202.43 ft.)
-Y8RPB- CSSta.14+06.630
-Y8DET- POT Sta.13+43.383
BL- 585 PINC 64+38.947=
-L- STA. 145+69.122 (12.858m LT)
EL. 39.832
TEMP. LATERAL V DITCH
SEE DETAIL C
-Y8RPC- +78.000
30m (98.43 ft.)
-Y8RPC- +90.000
30m (98.42 ft.)
S 49° 36' 15.9" E
MATCHLINE STA. 12+00 SEE SHEET 2-M
MATCHLINE STA. 15+40 SEE SHEET 2-O
-Y8DET-
BL- PINC 65+47.062=
BY8 521 PINC 10+67.590=
-L- STA. 146+76.942 (20.843m LT)=
-Y8- STA. 16+09.201 (7.081m RT)
EL. 37.927
-Y8- POT Sta.14+65.000 =
-Y8RPC- POT Sta.14+40.558
-Y8RPD- POT Sta.15+27.301
-L- POT Sta.146+62.803 =
-Y8- POT Sta.15+85.032
Δ = 72°10'39.0"
-Y8RPB- STSta.14+51.630
TEMP. TAIL V DITCH
SEE DETAIL X
TEMP. DRAIN INTO EXIST. 450MM RCP. DIVERT FLOW INTO PROPOSED 750MM RCP AFTER PIPE #156 IS BUILT.
TEMP. LATERAL V DITCH
SEE DETAIL C
TEMP. 2.7 TONS CL B RIPRAP W. 8.4 SM FIL.FAB.
SPECIAL CUT DITCH
SEE DETAIL A
-Y8- POT Sta.17+07.000
-Y8RPA- POT Sta.14+71.245
-Y8RPB- POT Sta.14+78.567
RETAIN UNTIL PIPE #156 IS BUILT.
S 65° 00' 00.0" E
N 39° 45' 10.0" E
SR 1556 WAYNE MEMORIAL 67 BST
-Y8-
-Y8RPA- STSta.14+39.493
N 43° 49' 48.1" W
-Y8RPA-
-Y8RPD-STSta.14+95.214
NO ASSOCIATED PIPING FOUND FOR WMs IN THIS AREA.
-L- TSSta.146+90.311
-Y8RPD-CSSta.14+50.214
N 65° 14' 50.0" W
-Y8RPD-
18 x 9 x 1
64 mm Skimmer
with 58 mm
Orifice Diameter
4 m weir
ID 2N.1F
SEE SHTS.25,57 & 58 FOR -Y8- DESIGN
SEE SHT.155 FOR -Y8DET- PROFILE

8/17/99

# DETOUR

| METRIC | PROJECT REFERENCE NO. | SHEET NO. |
|---|---|---|
| 5 0 10 | R-2554BA | EC-70/CONST.2-0 |
| | R /W SHEET NO. | |
| CONST.REV. | ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| R /W REV. | | |

-Y8DET-
PI Sta 16+47.775
△= 22° 20' 42.6" (LT)
L = 116.999
T = 59.252
R = 300.000
e = 0.03

40

NC GRID NAD 83

-Y8DET- PRCSta.15+88.523

END CONSTRUCTION
-Y8DET- PCC Sta.17+05.522 =
-Y8- POC Sta.19+21.202

-Y8- CSSta.19+58.386

-Y8- STSta.20+03.386

MATCHLINE STA. 15+40 SEE SHEET 2-N

-Y8- +17.114
25m (82.02 ft)

-Y8- +17.114
30m (98.42 ft)

-Y8- +60.000
30m (98.42 ft)

-Y8- +62.114
18m (59.05 ft)
END WW FENCE

-Y8- +58.386
18m (59.05 ft)

-Y8- +03.386
18m (59.05 ft)
ON EXIST.R/W

(CHORD)

SPECIAL CUT DITCH
SEE DETAIL A

NO ASSOCIATED PIPING FOUND FOR WMS IN THIS AREA.

TEMP. GRADE TO DRAIN

REMOVE

-Y8DET-

-Y8-

-Y8- +60.000
30m (98.42 ft)

-Y8- +17.114
25m (82.02 ft)

-Y8- +60.000
18m (59.05 ft)
BEG. WW FENCE

-Y8- TSSta.18+17.114

-Y8- SCSta.18+62.114

-Y8- +58.386
18m (59.05 ft)

BY8 519-PINC 6+82.971=
-Y8- STA. 19+93.297 (8.223m RT)
EL. 39.688

(CHORD)
-Y2- +95.899
ON EXIST.R/W

-Y8- ON EXIST.R/W
18m (59.05 ft)

BY8 520 -PINC 8+93.970=
-Y8- STA. 17+82.820 (6.296m RT)
EL. 38.373

SR 1556 WAYNE MEMORIAL 67 BST

N 35° 07' 38.9" E

SR 1662 WOODSIDE DR 58 BST

ISBKD

ISFD

HTR

CONC

5.5 CONC

2.4 CONC

3.0 CONC

1.00mm CHL

150 mm

SEE SHTS.25,57 & 58 FOR -Y8- DESIGN
SEE SHT.155 FOR -Y8DET- PROFILE

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ACTIVE REFERENCES