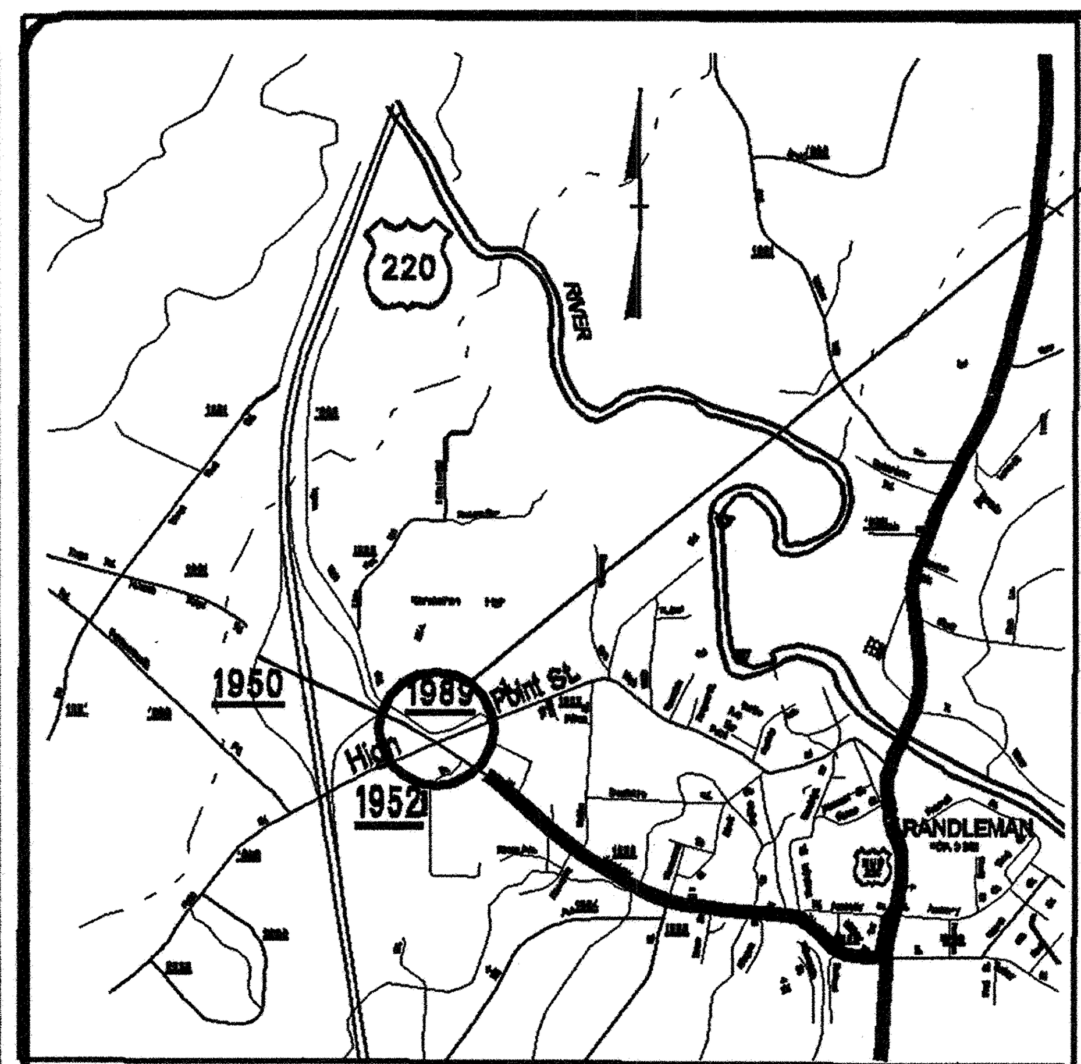
TIP PROJECT: U-5194 PROJECT: SR 1952 (HIGH POINT RD)



VICINITY MAP

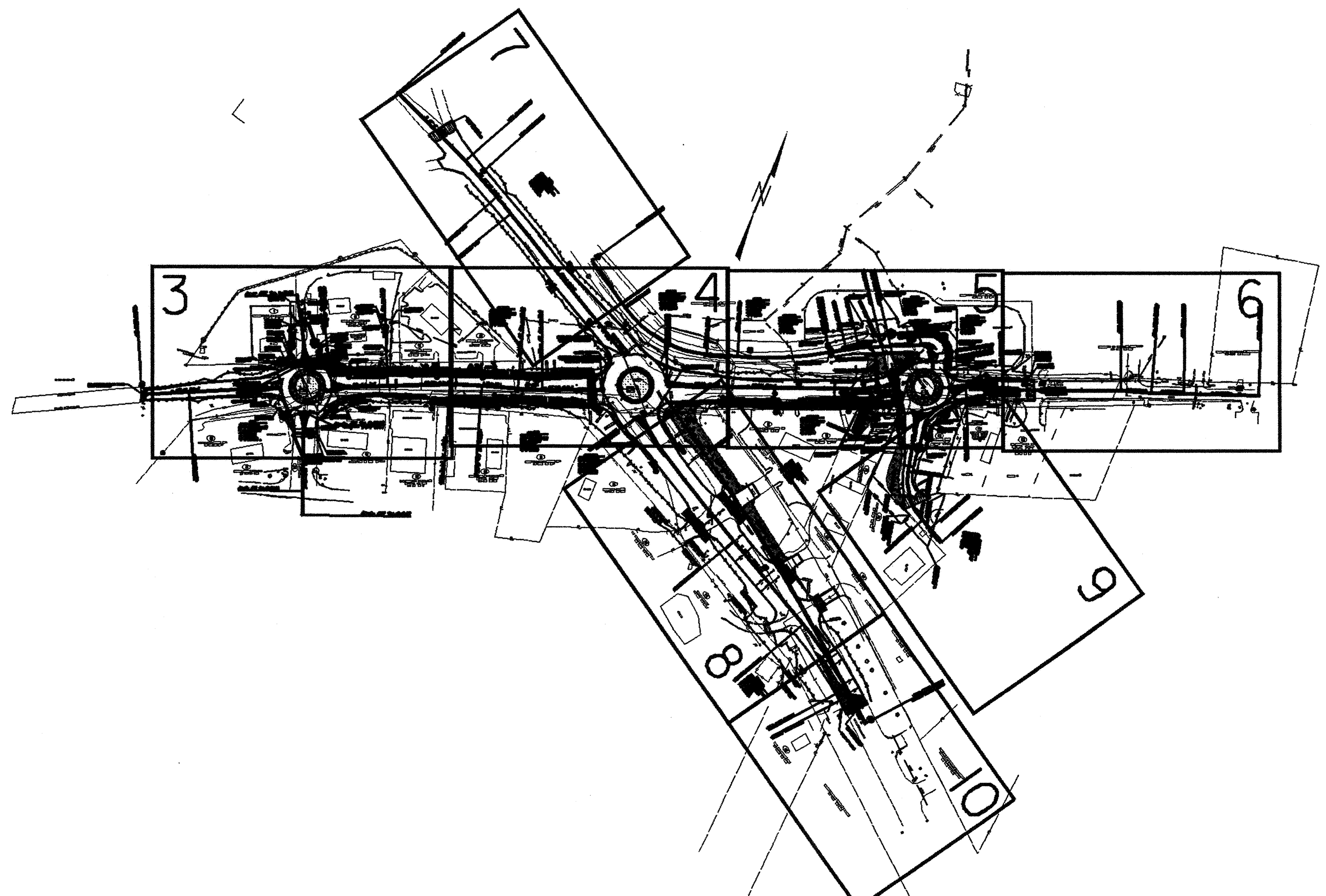
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

RANDOLPH COUNTY

LOCATION: *CONSTRUCTION OF THREE (3) ROUNDABOUTS ALONG SR 1952 (HIGHPOINT ST.) AT THE WAL-MART ENTRANCE, SR 1950 (W. ACADEMY ST) AND SR 1989 (TIGERS DEN RD.).*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, PAVEMENT MARKINGS & MARKERS, CURB & GUTTER, CONCRETE ISLANDS, AND EROSION CONTROL*



STATE	TIP PROJECT	SHEET NO.	TOTAL SHEETS
N.C.	U-5194	ECP 1	

WBS ELEMENT	F.A. PROJ. NO.	DESCRIPTION
	STM-1952(1)	
45310.1.ST1	STM-1952(1)	WBS PE
45310.2.ST1	STM-1952(1)	WBS ROW
45310.3.ST1	STM-1952(1)	WBS CONST.

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description
	Streambank Reforestation
1630.03	Temporary Silt Ditch
1630.05	Temporary Diversion
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
1636.01	Rock Silt Screen
1630.04	Stilling Basin
	Rock Inlet Sediment Trap:
1632.01	Type A (A - OR - A)
1632.02	Type B (B - OR - B)
1632.03	Type C (C - OR - C)
	Wattle

Prepared By:
Michael Trotter
Level III A #420
November 3 2009

PROJECT CONTACTS:
District Engineer Reuben E. Blakley, PE
Design & Construct Engineer Greg S. Davis, PE
Resident Engineer Jeff B. Loflin, PE

PROJECT LENGTH
0.7 mi.

NOTE:
The erosion control measures have been designed to provide storage calculated using the 60 day option analysis. The devices designed using these calculations have been noted, and basins have been drawn to scale.

Prepared In the Office of:
DIVISION EIGHT
DIVISION DESIGN & CONSTRUCT UNIT
902 N Sandhills Blvd.
PO Box 1067
Aberdeen, 28315

2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 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
1606.01	Special Sediment Control Fence
1622.01	Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary Diversion
1632.01	Rock Inlet Sediment Trap Type A
1632.03	Rock Inlet Sediment Trap Type C
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
1636.01	Rock Silt Screen

3/15/06

PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP 1B

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line
- Proposed Right of Way Line with Iron Pin and Cap Marker
- Proposed Right of Way Line with Concrete or Granite Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Wheel Chair Ramp — WCR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole — HH
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — TV
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

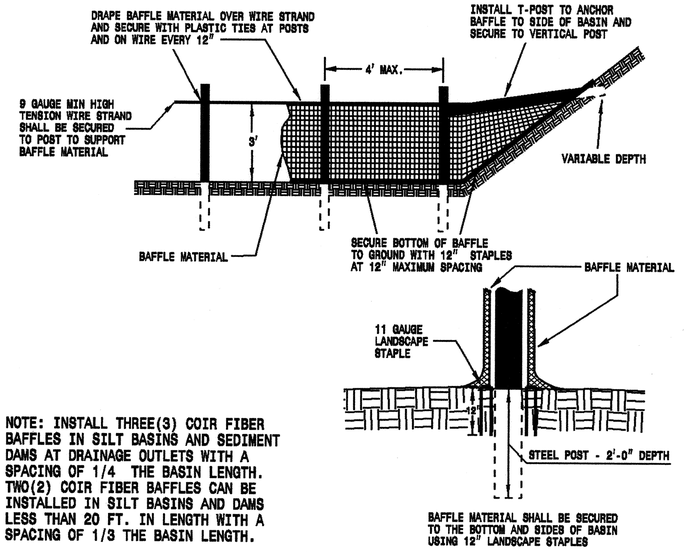
- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- A/G Tank; Water, Gas, Oil
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

TIP PROJECT	SHEET NO.
U-5194	ECP 2

COIR FIBER BAFFLE DETAIL



NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

EROSION CONTROL DETAILS AND SPECIFICATIONS

STD.#	DESCRIPTION	SYMBOL
1630.03	TEMPORARY SILT DITCH	TSD
1630.05	TEMPORARY DIVERSION	TD
1605.01	TEMPORARY SILT FENCE	
1622.01	GUIDE FOR TEMPORARY BERMS & SLOPE DRAINS	
1630.01	Riser Basin	
1630.02	SILT BASIN TYPE-B	
1633.01	TEMPORARY ROCK SILT CHECK TYPE-A	
	Wattle	
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	
1636.01	ROCK SILT SCREEN	
1630.04	STILLING BASIN FOR PUMPED EFFLUENT	
	ROCK INLET SEDIMENT PROTECTION	
1632.01	TRAP TYPE-A	A OR A
1632.02	TRAP TYPE-B	B OR B
1632.03	TRAP TYPE-C	C OR C

NARRATIVE

1. SOIL TYPE: X CLAY ____ SAND

2. IS THE PROJECT LOCATED IN A HIGH QUALITY WATER ZONE?
____ YES __X__ NO

3. ARE THERE ANY WETLANDS ADJOINING THIS PROJECT?
____ YES ____X____ NO

SITE DESCRIPTION

This project is located at the intersection of SR 1952 (High Point Rd) and SR 1950 (W. Academy St.), approximately 0.27 miles East of US 73 / 220 BYP. The area surrounding this project primarily consists of wooded and grassy areas and single family dwellings. The drainage consists of roadway ditches that lead to existing ditches and drainage structures.

PROJECT DESCRIPTION

The project will consist of clearing, grubbing, draining, setting up the base and paving. The major land disturbing activites will consist of clearing and grading within the right of way. Temporary and permanent erosion control measures will be installed.

MAINTENANCE SCHEDULE

1. INSPECT WEEKLY AND AFTER EACH RAINFALL USE THE DEPARTMENT OF TRANSPORTATION'S EROSION CONTROL INSPECTION REPORT.

2. MAINTAIN EROSION CONTROL DEVICES AS FOLLOWS:

A. SILT DITCH - REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE - CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.

B. SILT FENCE - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE - AVOID UNDERMINING THE FENCE.

C. SLOPE DRAINS - INSPECT THE SLOPE DRAINS AND SUPPORTING DIVERSIONS.

D. SEDIMENT BASIN - REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH - CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT - REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

E. CHECK DAM - REMOVE SETTLEMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION - ADD STONE TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

F. ROCK DAM - REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN VOLUME - CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY.

G. DROP INLET PROTECTION (TYPE C) - REMOVE SEDIMENT FROM THE POOL AREAS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN.

H. SEDIMENT TRAP - REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN SETTLEMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP - CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING TO ENSURE IT IS A MINIMUM OF 1.5 FT. BELOW THE LOW POINT OF THE EMBANKMENT.

NOTE: SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL.

NOTE: ALL SEDIMENT TRAPS/BASINS SHALL HAVE COIR FIBER BAFFLES. BASINS/TRAPS OVER 10 FT IN LENGTH SHALL HAVE TWO ROWS.

NOTE: NO PAM TO USED WITH THE LAST BMT (WATTLE) AT OUTLET OF THE PROJECT

NOTE: The erosion control measures have be designed to provide a minimum of 43% of the storage calculated using the RUSLE2 analysis. These sections of disturbed area must then be permanently stabilized within 60 days from the time grading begins.

GENERAL CONSIDERATIONS

1. THE LAW REQUIRES INSTALLATION AND MAINTENANCE OF SUFFICIENT EROSION CONTROL PRACTICES TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. IT ALSO REQUIRES THAT SURFACES BE NON EROSIVE AND STABLE WITHIN 21 DAYS CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING.

2. FIT THE DEVELOPMENT TO THE SITE - FOLLOW THE NATURAL CONTOURS AS MUCH AS POSSIBLE. PRESERVE AND USE NATURAL DRAINAGE SYSTEMS.

3. LIMIT CLEARING AND GRUBBING - CLEARLY DEFINE WORK LIMIT LINES. GRADE TO MINIMIZE CUT-AND-FILL SLOPES. PRESERVE NATURAL BUFFER AREAS, AND LIMIT THE TIME THAT BARE SOIL IS EXPOSED.

4. PROTECT THE SOIL SURFACE - LIMIT THE EXTENT OF DISTURBANCE AND STABILIZE THE SOIL SURFACE IMMEDIATELY. ONCE THE SURFACE HAS BEEN DISTURBED, IT IS SUBJECT TO ACCELERATED EROSION AND SHOULD BE PROTECTED WITH APPROPRIATE COVER, SUCH AS MULCH OR VEGETATION IN AN EXPEDIENT MANNER.

5. SEDIMENT BASINS AND TRAPS - SELECT SITES AND INSTALL SEDIMENT BASINS AND TRAPS BEFORE OTHER CONSTRUCTION ACTIVITIES ARE STARTED. ALSO CONSIDER LOCATIONS FOR DIVERSIONS, OPEN CHANNELS, AND STORM DRAINS AT THIS TIME SO THAT ALL SEDIMENT-LADEN TO RUN OFF CAN BE DIRECTED TO AN IMPOUNDMENT STRUCTURE BEFORE LEAVING THE CONSTRUCTION SITE. INSTALL ALL MEASURES AND RELEASE POINTS PRIOR TO CLEARING AND GRUBBING.

6. ONCE AN AREA IS DISTURBED, IT IS SUBJECT TO ACCELERATED EROSION. EROSION CONSTROL CAN BE ACHIEVED BY:

* LIMITING THE SIZE OF THE CLEARING AND TIME OF EXPOSURE BY PROPER SCHEDULING,
* REDUCING THE AMOUNT OF RUNOFF OVER THE DISTURBED SURFACE.
* LIMITING GRADES AND LENGTHS OF SLOPES, AND
* RE-ESTABLISHING PROTECTIVE COVER IMMEDIATELY AFTER LAND DISTURBING ACTIVITIES ARE COMPLETED OR WHEN CONSTRUCTION ACTIVITES ARE DELAYED FOR THIRTY (30) OR MORE WORKING DAYS

7. STABILIZE CONSTRUCTION ACCESS AREAS, CONSTRUCTION ROADS, AND PARKING AREA DURING INITIAL ACTIVITIES. TRY TO KEEP ROAD GRADES TO A MINIMUM GENERALLY NEVER EXCEEDING 12%.

8. CLEAR BORROW AND WASTE DISPOSAL AREAS AS NEEDED AND PROTECT THEM FROM SURFACE RUNOFF. SLOPE ALL AREAS TO PROVIDE POSITIVE DRAINAGE, AND STABILIZE BARE SOIL SURFACES WITH PERMANENT VEGETATION OR MULCH AS SOON AS FINAL GRADES ARE PREPARED. DIRECT ALL RUNOFF THAT CONTAINS SEDIMENT TO A SEDIMENT-TRAPPING DEVICE. IN LARGE BORROW AND DISPOSAL SITES, SHAPE AND DEEPEN THE LOWER END TO FORM AN IN-PLACE SEDIMENT TRAP.

9. ONLY SEDIMENT-FREE RUNOFF MAY BE DISCHARGED FROM CONSTRUCTION SITES DIRECTLY INTO STREAMS. ENSURE THAT ALL OTHER FLOWS ENTER FROM DESILTING POOLS FORMED BY SEDIMENT TRAPS OR BARRIERS.

10. AREAS ADJOINING STREAMS SHOULD BE LEFT UNDISTURBED AS BUFFERS. WHERE NATURAL BUFFERS ARE NOT AVAILABLE, PROVIDE ARTIFICIAL BUFFERS. WHERE WORK IS REQUIRED ALONG A STREAM, PROVIDE MECHANICAL OR ARTIFICIAL BUFFER (25 FEET MINIMUM REQUIRED).

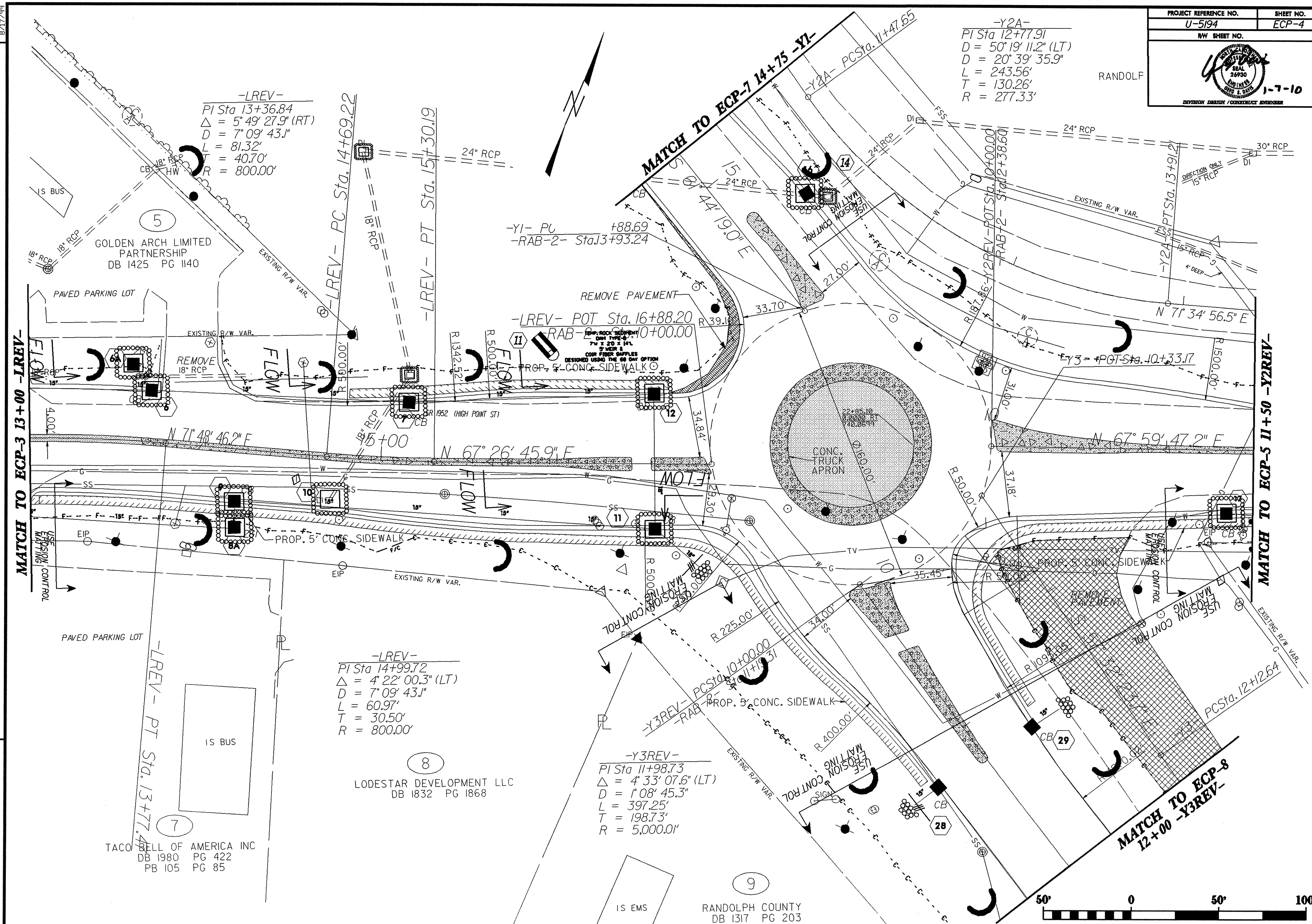
11. BEFORE MOVING TO NEXT JOB SITE, REVIEW ALL MEASURES FOR EFFECTIVENESS; MAKE ANY ADJUSTMENTS, CLEAR-OUTS, OR REPAIR; CALL ROADSIDE ENVIRONMENTAL DEPARTMENT FOR INSTALLATION OF A DITCH LINER AND SEEDING AND MULCHING OF ALL DISTURBED AREAS.

12. CONTINUE TO CHECK AND MAINTAIN ALL MEASURES AFTER EACH SIGNIFICANT RAINFALL UNTIL ALL DISTURBED AREAS BECOME STABILIZED.

13. FILL IN ALL SILT BASINS AND SILT DITCHES. REMOVE ALL SILT FENCES AND SLOPE DRAINS. REDISTRIBUTE ALL STONE FROM SILT CHECKS, SEDIMENT DAMS, AND SILT SCREENS. SEED AND MULCH DISTURBED AREAS.

08-JAN-2010 11:19
D:\mrdy\Randolph\sr_1952(high_point_rd)\esh
gedovle AT DSCA00-246463


PROJECT REFERENCE NO. U-5194
SHEET NO. ECP-3
R/W SHEET NO.
DIVISION DESIGN / CONSTRUCT ENGINEER
1-7-10
DW-1- POT Sta. 9+50.00
-DW-1- 9+64.18
20.07' RT TCE
-DW-1- 9+68.31
15.30' LT TCE
S 30°43' 45.5" E
-RAB-1- Sta.12+00.69
-LREV- POT Sta.11+00.00
-LREV- POT Sta. 11+38.70
IS BUS
AUTOMASTERS OF ASHEBORO LLC
DB 1813 PG 1610
-DW-1- 10+24.56
26.98' RT R\W
-DW-1- 10+24.16
31.97' RT TCE
-DW-1- 10+27.61
10.68' LT TCE
-DW-1- 10+28.16
17.56' LT R\W
PUGH OIL COMPANY INC
DB 1402 PG 176
PB 40 PG 26
-L_REV- 11+30.15
168.44 LT TCE
-L_REV- 11+28.98
153.49 LT TCE
-L_REV- 11+41.96
152.37 LT TCE
-L_REV- 11+52.92
166.68 LT TCE
18" RCP
-DW-1- 11+04.08
37.55' RT R\W
-DW-1- 11+01.08
42.19' RT TCE
-DW-1- 11+13.02
51.86' RT R\W
-DW-1- 10+85.93
29.63' LT R\W
-DW-1- 10+86.90
41.48' LT R\W
CONC PAD, GAS PUMPS, METAL CANOPY
-DW-1- 10+88.13
56.43' LT R\W
-L_REV- 11+38.29
80.36 LT TCE
PAVED PARKING LOT
GOLDEN ARCH LIMITED PARTNERSHIP
DB 1425 PG 1140
USE EROSION CONTROL MATTING
SHED
DIRECTIONAL ONLY
15" RCP
-DW-1- 11+12.03
59.72' RT TCE
-DW-1- 11+09.24
81.89' RT R\W
-DW-1- 11+16.37
39.06' LT R\W
-DW-1- 11+11.59
44.50' LT R\W
-L_REV- 10+46.81
50.20' LT TDE
EXISTING R/W VAR.
REMOVE PAVEMENT
-DW-1- 11+16.68
62.82' RT R\W
-L_REV- 11+45.31
58.04 LT TCE
REMOVE
EROSION CONTROL MATTING
PLACE WATTLES NO PAM TO USED WITH THE LAST BMT (WATTLE) AT OUTLET OF THE PROJECT
DW-1- POT Sta. 11+20.45
-RAB-1- Sta.13+06.44
N 63° 46' 10.0" E
-L- POT Sta.13+53.17
-RAB-1- Sta.10+00.00
CONC. TRUCK APRON
N 65° 14' 51.3" E
N 65° 59' 18.3" E
MATCH TO ECP-4 13+00 -LREV-
REMOVE PAVEMENT
-L- 13+45.73
54.34' RT R\W
-L_REV- 10+09.47
46.73' RT R\W
PROP. 5' CONC SIDEWALK
-L_REV- 10+46.75
48.50' RT TCE
-L- 13+40.05
54.83' RT TCE
-DW-2- 10+21.85
36.16' LT R\W-TCE
PAVED PARKING LOT
DW-2- POT Sta. 10+00.00
-RAB-1- Sta.10+89.58
-L-
PI Sta 15+31.99
△ = 3° 56' 35.0" (RT)
D = 0° 28' 39.5"
L = 825.52'
T = 412.92'
R = 11,995.51'
-DW-2- 10+44.25
21.94' RT R\W
DEFCO RANDLEMAN LLC
DB 1631 PG 448
IS BUS
-DW-2- 10+54.26
36.14' LT R\W-TCE
-DW-2- 10+54.22
22.59' RT R\W-TCE
-DW-2- 10+64.26
36.13' LT TCE
-DW-2- 10+64.22
23.25' RT TCE
RANDOLPH DEVELOPMENT GROUP LLC DB 1855 PG 984
DEEP RIVER CROSSING DB 1628 PG 704
S 22° 04' 57.4" E
-L- PC Sta. 11+19.06
-LREV- PC Sta. 12+96.15
J R HOLDINGS GROUP LLC
DB 1994 PG 1423
PB 93 PG 8
DW-2- POT Sta. 12+00.00
50' 0 50' 100'
REVISIONS
8/17/99


PROJECT REFERENCE NO. U-5194
SHEET NO. ECP-4
R/W SHEET NO.
DIVISION DESIGN / CONSTRUCT ENGINEER
1-7-10
RANDOLF
-Y2A-
PI Sta 12+77.91
D = 50° 19' 11.2" (LT)
D = 20° 39' 35.9"
L = 243.56'
T = 130.26'
R = 277.33'
-LREV-
PI Sta 13+36.84
△ = 5° 49' 27.9" (RT)
D = 7° 09' 43.1"
L = 81.32'
T = 40.70'
R = 800.00'
MATCH TO ECP-7 14+75 -Y1-
-Y2A- PCSta. 11+47.65
GOLDEN ARCH LIMITED PARTNERSHIP
DB 1425 PG 1140
PAVED PARKING LOT
EXISTING R/W VAR.
-Y1- PC +88.69
-RAB-2- Sta.13+93.24
REMOVE PAVEMENT
-LREV- POT Sta. 16+88.20
-RAB-2- Sta. 10+00.00
TEMP. ROCK SEDIMENT DAM TYPE-B
PROP. 5' CONC. SIDEWALK
-LREV- PC Sta. 14+69.22
-LREV- PT Sta. 15+30.19
-Y2REV- POT Sta. 10+00.00
-RAB-2- Sta. 12+38.60
-Y2A- PT Sta. 13+91.2
-Y3- POT Sta. 10+33.17
N 71° 34' 56.5" E
N 67° 59' 47.2" E
N 71° 48' 46.2" E
N 67° 26' 45.9" E
CONC. TRUCK APRON
MATCH TO ECP-3 13+00 -LREV-
MATCH TO ECP-5 11+50 -Y2REV-
USE EROSION CONTROL MATTING
REMOVE 18" RCP
24" RCP
30" RCP
18" RCP
15" RCP
PAVED PARKING LOT
-LREV-
PI Sta 14+99.72
△ = 4° 22' 00.3" (LT)
D = 7° 09' 43.1"
L = 60.97'
T = 30.50'
R = 800.00'
-LREV- PT Sta. 13+77.4
LODESTAR DEVELOPMENT LLC
DB 1832 PG 1868
TACO BELL OF AMERICA INC
DB 1980 PG 422
PB 105 PG 85
-Y3REV- PCSta. 10+00.00
-RAB-2- 11+19.31
-Y3REV-
PI Sta 11+98.73
△ = 4° 33' 07.6" (LT)
D = 1° 08' 45.3"
L = 397.25'
T = 198.73'
R = 5,000.01'
RANDOLPH COUNTY
DB 1317 PG 203
IS BUS
IS EMS
MATCH TO ECP-8 12+00 -Y3REV-
PCSta. 12+12.64
50' 0 50' 100'

PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP-5
R/W SHEET NO.	

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26930 DAVID L. DYER
1-7-10
DIVISION DESIGN / CONSTRUCT ENGINEER

8/17/99

REVISIONS

MATCH TO ECP-4 11+50 -Y2REV-

MATCH ECP-6 19+00 -Y2-

MATCH TO ECP-10 12+00 -Y2BREV-

-Y2A-
PI Sta 16+09.62
D = 17° 01' 00.8" (LT)
D = 6° 06' 33.0"
L = 278.55'
T = 140.31'
R = 937.86'

-Y2AREV-
PI Sta 10+67.65
D = 7° 44' 25.4" (RT)
D = 5° 43' 46.5"
L = 135.10'
T = 67.65'
R = 1,000.00'

-Y2A-
PI Sta 18+23.24
D = 100° 40' 36.8" (RT)
D = 158° 51' 46.1"
L = 63.37'
T = 43.50'
R = 36.07'

-Y2AREV-
PI Sta 12+58.57
D = 90° 00' 00.0" (RT)
D = 229° 10' 59.2"
L = 39.27'
T = 25.00'
R = 25.00'

-Y2REV-
PI Sta 15+19.15
△ = 13° 39' 23.1" (LT)
D = 13° 21' 00.0"
L = 102.30'
T = 51.39'
R = 429.18'

BASEBALL FIELD

PAVED PARKING LOT

PAVED PAR

RANDOLPH C
DB

EXISTING R/W VAR.

-Y2A- PCSta. 14+69.31

-Y2AREV- PCSta. 10+00.00

-Y2A- POC Sta. 17+03.70

-Y2A- PTSta. 17+47.86

-Y2A- PCSta. 17+79.73

-Y2A- PTSta. 11+35.10

-Y2REV- PTSta. 15+

-Y2REV- POTSta. 15+
-RAB-3- Sta.10+

-Y2AREV- PCSta. 12+33.57

-Y2AREV- PTSta. 12+72.84

-Y2AREV- POTSta. 12+93.91
-RAB-3- Sta.13+00.35

-Y2- PINCSta. 18+98.35

-Y2A- PTSta. 18+43.11

-Y2AREV- STA.10+00.00
-BEGIN CONSTRUCTION

-Y2REV- PCSta. 14+67.76

-Y2- POTSta.17+63.92
-RAB-3- Sta.12+18.84

-Y2A- POTSta. 19+15.69

-Y2BREV-POT
-RAB-3-

N 54° 33' 55.7" E

N 65° 00' 13.8" E

N 67° 59' 47.2" E

N 65° 59' 05.5" E

REMOVE PAVEMENT

CONC.

FLOW

18" RCP

15" RCP

24" RCP

30" RCP

DIRECTION ONLY

TEMP. ROCK SEDIMENT DAM TYPE-B 5'W X 2'D X 18'L 3' WEIR & COIR FIBER BAFFLES DESIGNED USING THE 68 DAY OPTION

USE EROSION CONTROL MATTING

TIE TO EXIST SIDEWALK

SIDEWALK

SIGN

11 HARDEES FOOD SYSTEMS INC DB 1970 PG 791

13 RANDOLPH REAL PARTNERS LLP DB 1762 PG 1146

14 CF PROPERTIES LLC DB 2077 PG 467 DB 1874 PG 571 DB 1874 PG 568 PB 116 PG 93

TRACT 1

IS BUS

SUMMIT LLC DB

50' 0 50' 100'

8/17/99

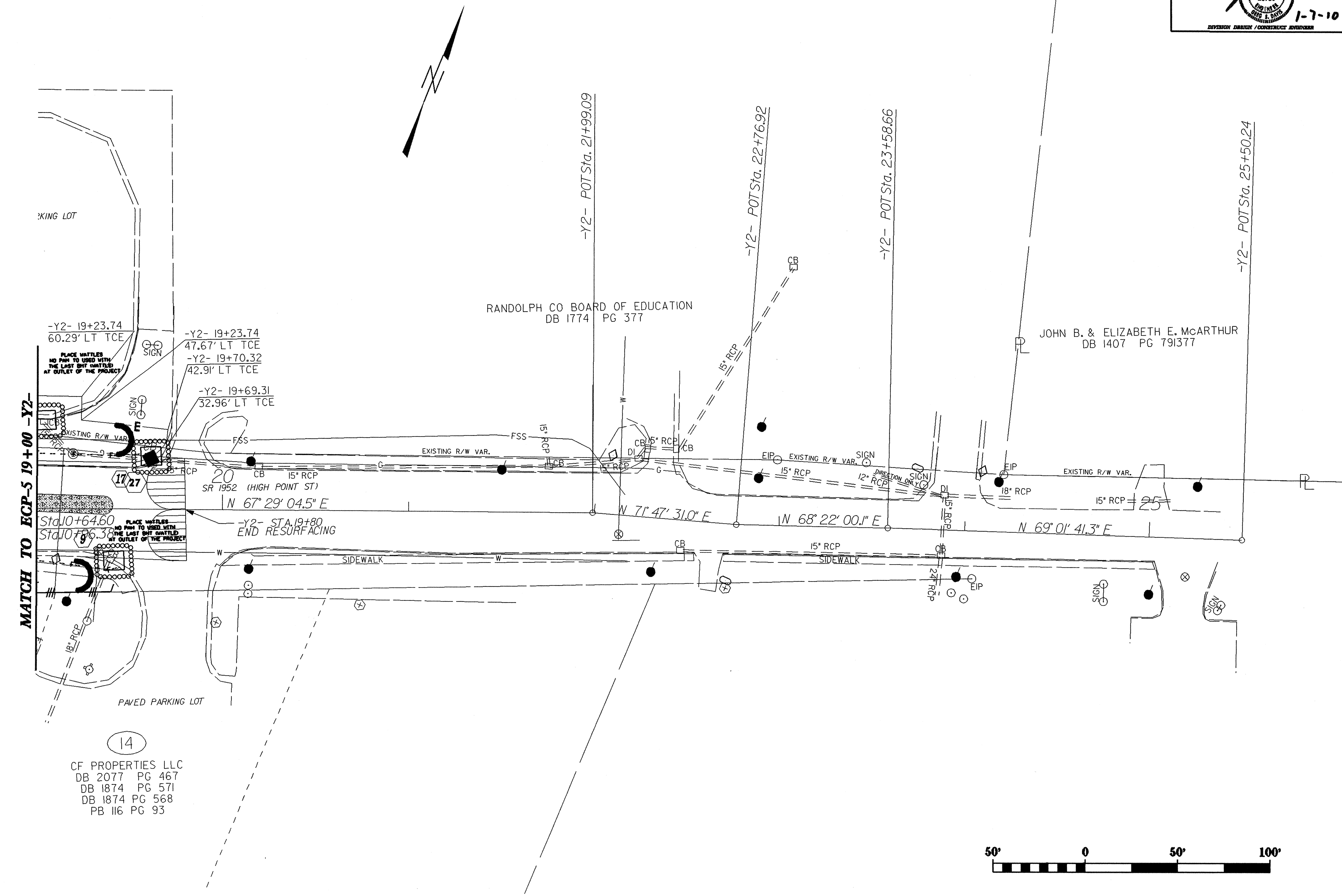
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP-6
R/W SHEET NO.	

SEAL 26930

1-7-10

DIVISION DESIGN / CONSTRUCT ENGINEER



MATCH TO ECP-5 19+00 -Y2-
-Y2- POT Sta. 21+99.09
-Y2- POT Sta. 22+76.92
-Y2- POT Sta. 23+58.66
-Y2- POT Sta. 25+50.24
RANDOLPH CO BOARD OF EDUCATION
DB 1774 PG 377
JOHN B. & ELIZABETH E. McARTHUR
DB 1407 PG 791377
-Y2- 19+23.74
60.29' LT TCE
-Y2- 19+23.74
47.67' LT TCE
-Y2- 19+70.32
42.91' LT TCE
-Y2- 19+69.31
32.96' LT TCE
PLACE WATTLES
NO PAN TO USED WITH
THE LAST BMT (WATTLE)
AT OUTLET OF THE PROJECT
EXISTING R/W VAR.
SR 1952 (HIGH POINT ST)
N 67° 29' 04.5" E
N 71° 47' 31.0" E
N 68° 22' 00.1" E
N 69° 01' 41.3" E
-Y2- STA.19+80
END RESURFACING
Sta.10+64.60
Sta.10+96.38
15" RCP
12" RCP
18" RCP
24" RCP
DIRECTION ONLY
SIDEWALK
SIGN
EIP
CB
DI
FSS
PAVED PARKING LOT
PARKING LOT
14
CF PROPERTIES LLC
DB 2077 PG 467
DB 1874 PG 571
DB 1874 PG 568
PB 116 PG 93
50' 0 50' 100'

PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP-7
R/W SHEET NO.	

SEAL 26930 ENGINEER GREG J. DAVIS

1-7-10

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99

-Y1- PINCSta. 9+51.24

-Y1- POTSta. 10+00.00

-Y1-
PI Sta 10+98.88
△ = 2° 08' 19.7" (RT)
D = 3° 55' 12.9"
L = 54.56'
T = 27.28'
R = 1,461.54'

-Y2A- POTSta. 10+00.00

FSS

EXISTING R/W VAR.

10

S 58° 05' 52.3" E

SR 1989 (TIGERS DEN RD)

PLACE WATTLES NO PINS TO USED WITH THE LAST BMT (WATTLE) AT OUTLET OF THE PROJECT

13

14

15" CB

USE EROSION CONTROL MATTING (TYPE C)

TO US 73 / 220

10

S 63° 52' 38.6" E

S 61° 44' 19.0" E

N 67° 41' 37.0" W

SR 1950 (W. ACADEMY ST)

15

13

15" CB

12

PLACE WATTLES NO PINS TO USED WITH THE LAST BMT (WATTLE) AT OUTLET OF THE PROJECT

24" RCP

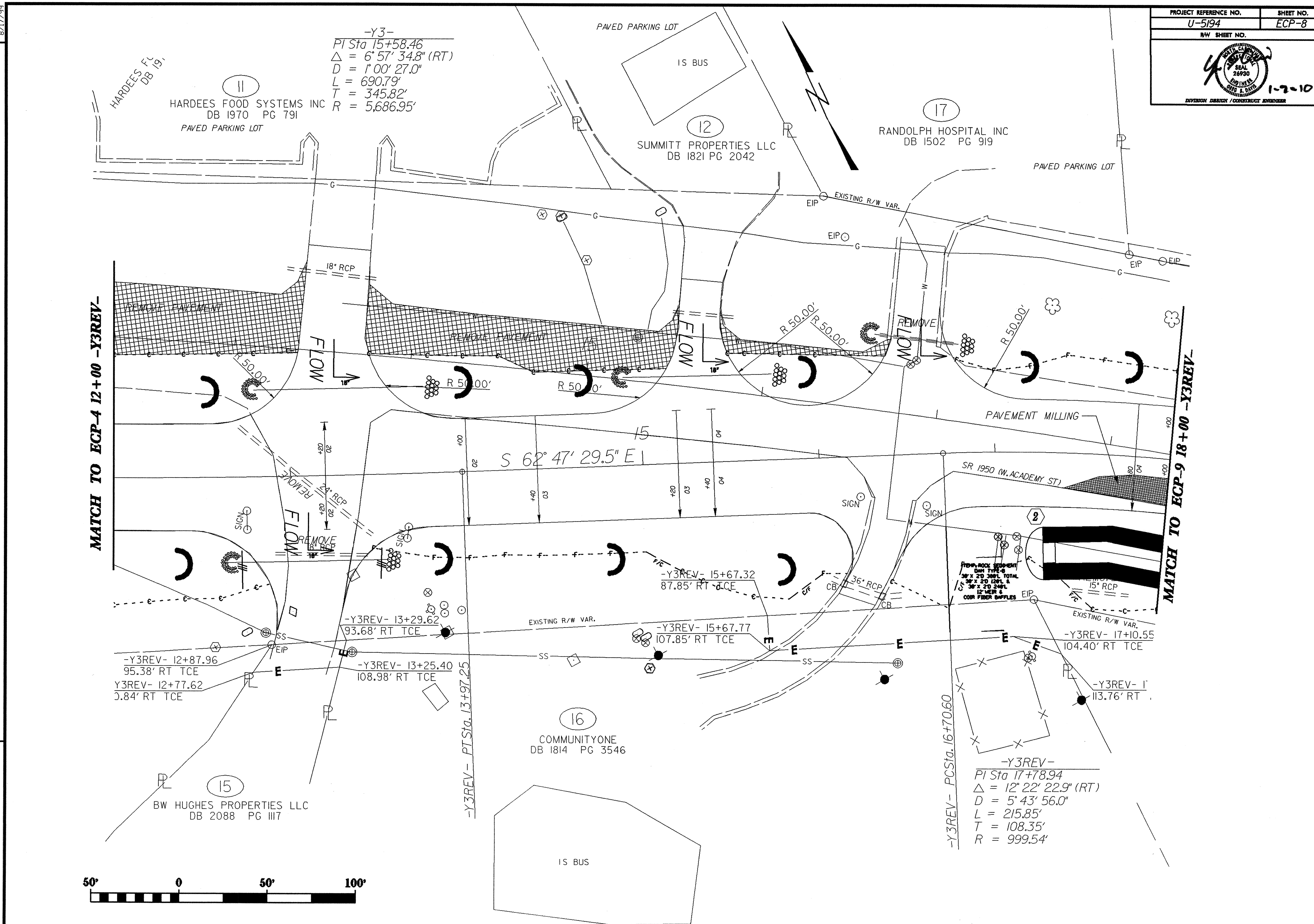
24" RCP

-Y1- PCSta. 10+71.60

-Y1- PTSta. 11+26.15

50' 0 50' 100'

MATCH TO ECP-4 14+75 -Y1-


PROJECT REFERENCE NO. U-5194
SHEET NO. ECP-8
R/W SHEET NO.
DIVISION DESIGN / CONSTRUCT ENGINEER
1-7-10
8/17/99
REVISIONS
-Y3-
PI Sta 15+58.46
△ = 6° 57′ 34.8″ (RT)
D = 1° 00′ 27.0″
L = 690.79′
T = 345.82′
R = 5,686.95′
11
HARDEES FOOD SYSTEMS INC
DB 1970 PG 791
PAVED PARKING LOT
PAVED PARKING LOT
IS BUS
12
SUMMITT PROPERTIES LLC
DB 1821 PG 2042
17
RANDOLPH HOSPITAL INC
DB 1502 PG 919
PAVED PARKING LOT
EXISTING R/W VAR.
18" RCP
REMOVE PAVEMENT
REMOVE PAVEMENT
REMOVE
FLOW
R 50.00′
PAVEMENT MILLING
S 62° 47′ 29.5″ E
SR 1950 (W. ACADEMY ST)
MATCH TO ECP-4 12+00 -Y3REV-
MATCH TO ECP-9 18+00 -Y3REV-
24" RCP
36" RCP
15" RCP
SIGN
-Y3REV- 15+67.32
87.85′ RT TCE
-Y3REV- 13+29.62
93.68′ RT TCE
-Y3REV- 15+67.77
107.85′ RT TCE
-Y3REV- 17+10.55
104.40′ RT TCE
-Y3REV- 12+87.96
95.38′ RT TCE
-Y3REV- 12+77.62
.84′ RT TCE
-Y3REV- 13+25.40
108.98′ RT TCE
113.76′ RT
-Y3REV- PT Sta. 13+97.25
-Y3REV- PC Sta. 16+70.60
TEMP. ROCK SEDIMENT DAM TYPE-B
16
COMMUNITYONE
DB 1814 PG 3546
15
BW HUGHES PROPERTIES LLC
DB 2088 PG 1117
-Y3REV-
PI Sta 17+78.94
△ = 12° 22′ 22.9″ (RT)
D = 5° 43′ 56.0″
L = 215.85′
T = 108.35′
R = 999.54′
IS BUS
50′ 0 50′ 100′

PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP-9
R/W SHEET NO.	

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER DAVID T. DAVIS

1-7-10

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

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RANDOLPH REAL PARTNERS LLP
DB 1762 PG 1146

-Y3- POT Sta. 20+03.53
-Y3REV- POT Sta. 19+68.46

CITY OF RANDLEMAN ALCOHOLIC
BEVERAGE CONTROL BOARD
DB 1407 PG 638

EXISTING R/W VAR.

EXISTING R/W VAR.

TEMP. ROCK SEDIMENT DAM TYPE-B
15'W x 2'D x 35'L
16' WEIR &
COIR FIBER BAFFLES
DESIGNED USING THE 50 DAY OPTION

TO RANDLEMAN

MATCH TO ECP-8 18+00 -Y3REV-

20

06.6" E

SR 1950 (W. ACADEMY ST)

-Y3 REV- STA 19+27
END CONSTRUCTION

PAVEMENT

18" RCP

CB

18" RCP

CB

18" RCP

SIGN

EIP

REMOVE TREES ONLY
IN THE RIGHT OF WAY
AS DIRECTED BY THE ENGINEERS

-Y3- PT Sta. 19+03.43

-Y3REV- PT Sta. 18+86.45

18

DVM PROPERTIES LLC
DB 2033 PG 1892

UNITED STATES POSTAL SERVICE
DB 1483 PG 1298

50' 0 50' 100'

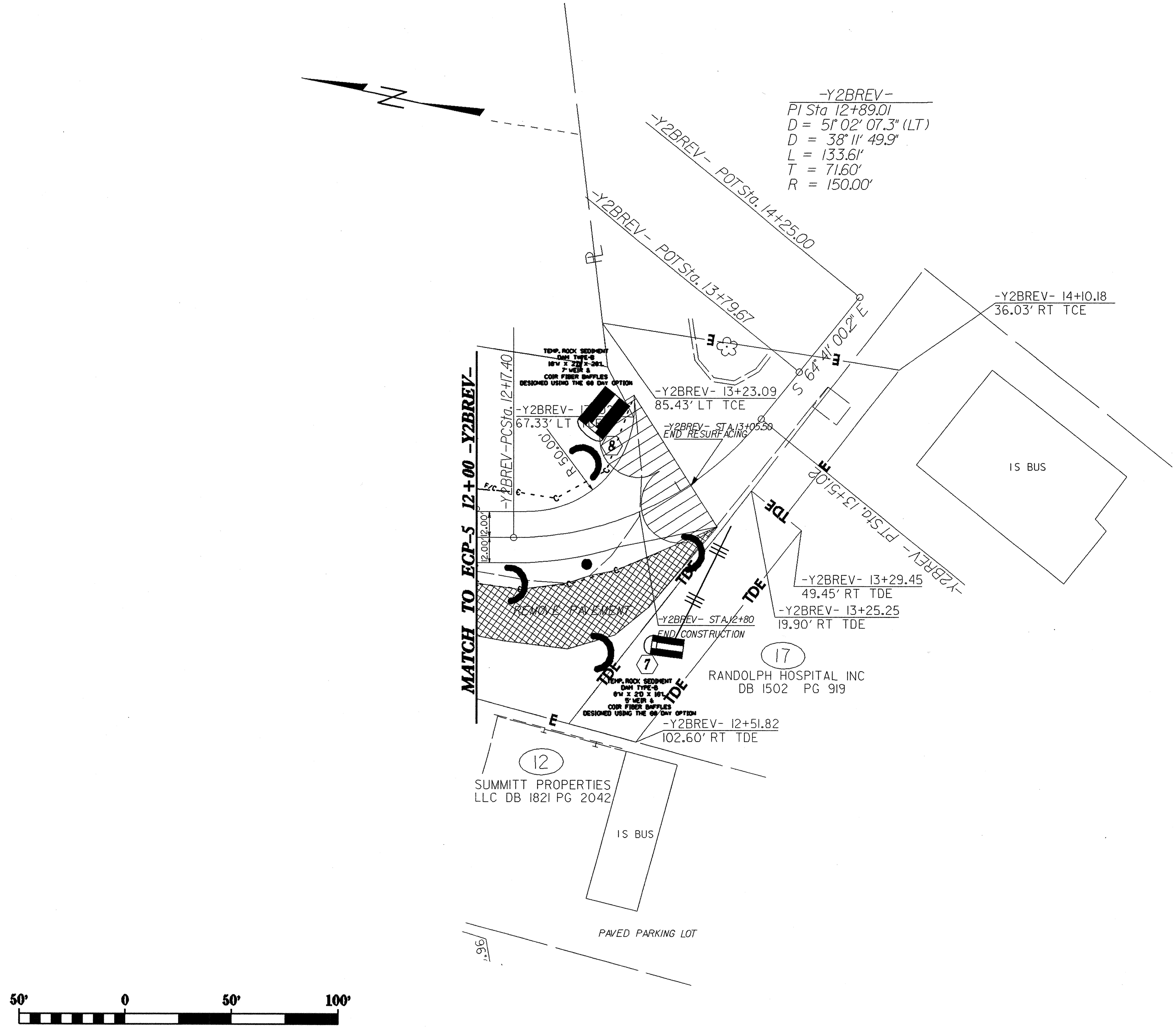
PROJECT REFERENCE NO.	SHEET NO.
U-5194	ECP-10
R/W SHEET NO.	

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26930 GREG S. DAVIS 1-7-10

DIVISION DESIGN / CONSTRUCT ENGINEER

REVISIONS

8/17/99



MATCH TO ECP-5 12+00 -Y2BREV-
-Y2BREV-
PI Sta 12+89.01
D = 51° 02' 07.3" (LT)
D = 38° 11' 49.9"
L = 133.61'
T = 71.60'
R = 150.00'
-Y2BREV- POT Sta. 14+25.00
-Y2BREV- POT Sta. 13+79.67
-Y2BREV- PT Sta. 13+51.06
-Y2BREV- PC Sta. 12+17.40
S 64° 41' 00.2" E
-Y2BREV- 14+10.18
36.03' RT TCE
-Y2BREV- 13+23.09
85.43' LT TCE
67.33' LT
-Y2BREV- STA.13+05.50
END RESURFACING
R 50.00'
12.00'
REMOVE PAVEMENT
-Y2BREV- STA.12+80
END CONSTRUCTION
TEMP. ROCK SEDIMENT
DAM TYPE-B
18'W X 2'D X 20'L
7' WEIR &
COIR FIBER BAFFLES
DESIGNED USING THE 60 DAY OPTION
8
TEMP. ROCK SEDIMENT
DAM TYPE-B
8'W X 2'D X 16'L
5' WEIR &
COIR FIBER BAFFLES
DESIGNED USING THE 60 DAY OPTION
7
TDE
-Y2BREV- 13+29.45
49.45' RT TDE
-Y2BREV- 13+25.25
19.90' RT TDE
-Y2BREV- 12+51.82
102.60' RT TDE
1S BUS
17
RANDOLPH HOSPITAL INC
DB 1502 PG 919
12
SUMMITT PROPERTIES
LLC DB 1821 PG 2042
1S BUS
PAVED PARKING LOT
50' 0 50' 100'