

# AS-BUILT SURVEY OF SOUTH MUDDY CREEK STREAM RESTORATION SCO# 05-06667-01

**REFERENCES:**

**OWNER:**  
NORTH CAROLINA ECOSYSTEM ENHANCEMENT PROGRAM  
1652 MAIL SERVICE CENTER  
RALEIGH, NC 27089-1652  
(919)715-0478  
EEP PROJ. MGR.: PAUL WIESNER  
EEP REVIEW COORDINATOR: LIN XU

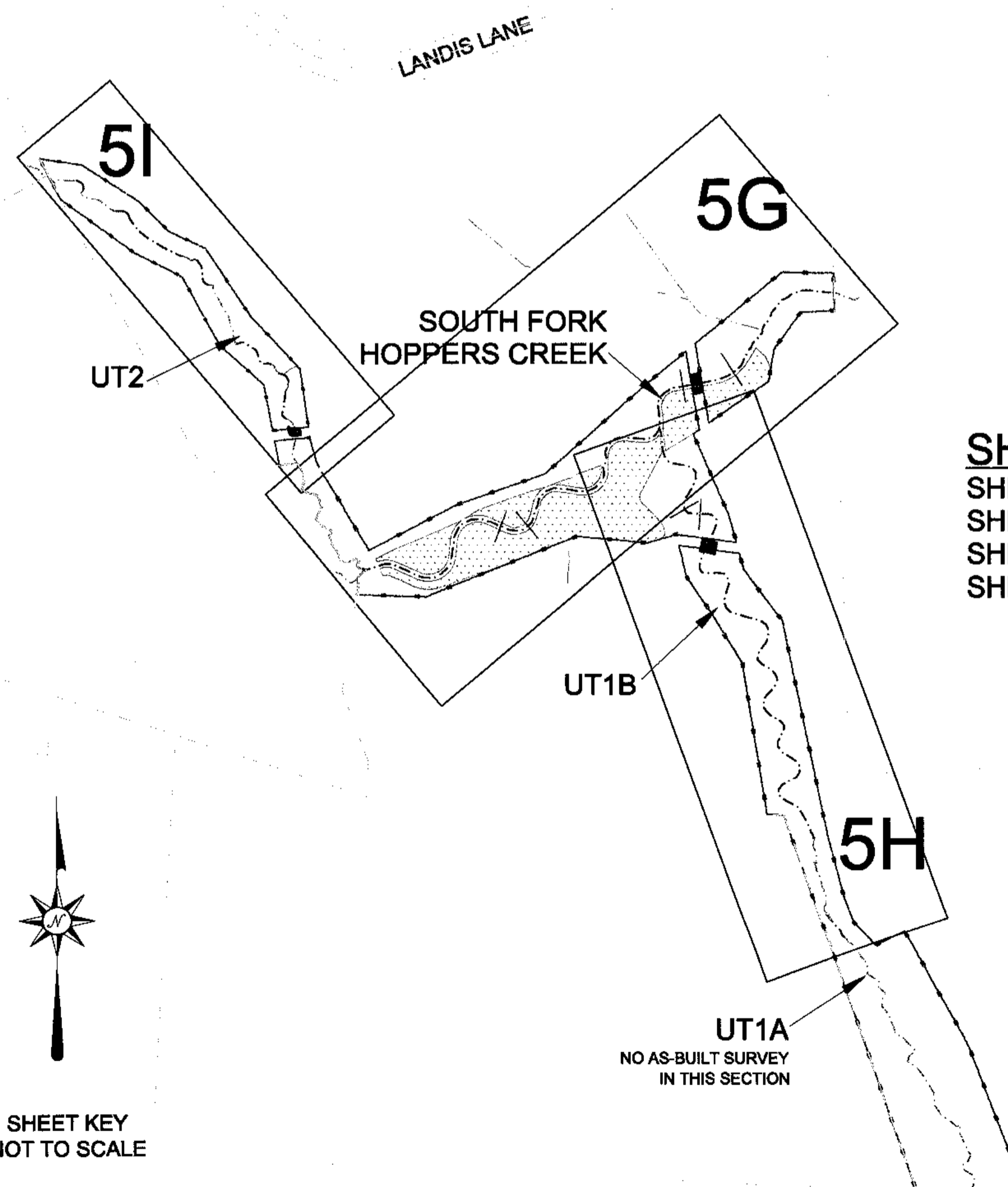
**CONTRACTOR:**  
CAROLINA ENVIRONMENTAL CONTRACTING, INC.  
MT. AIRY, NC  
(336)320-3849

**DESIGNER:**  
MICHAEL BAKER ENGINEERING, INC.  
CHARLOTTE, NC  
(704)334-4454  
EXISTING CONDITIONS & BOUNDARY INFORMATION PROVIDED BY DESIGNER

**GENERAL NOTES**

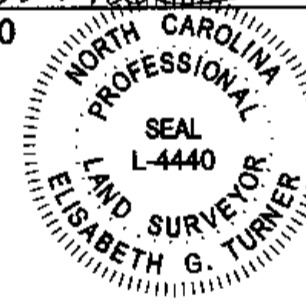
1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. THE VERTICAL DATUM IS NAVD 88.
3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
4. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
5. ALL CROSS-SECTIONS ARE FROM LEFT BANK TO RIGHT BANK (FACING DOWNSTREAM).
6. CONTROL DATA SHOWN TAKEN FROM EXISTING CONDITIONS SURVEY PROVIDED BY DESIGNER & VERIFIED DURING CONSTRUCTION & AS-BUILT SURVEYS.

## SOUTH FORK HOPPERS CREEK SITE



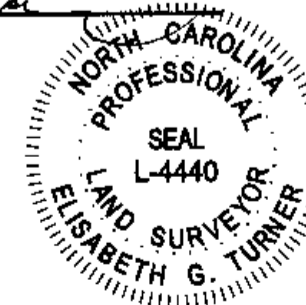
I, ELISABETH G. TURNER, CERTIFY THAT THESE PLANS WERE DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION AND THAT THE RATIO OF PRECISION AS CALCULATED IS 1: 10,000 ±. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 17th DAY OF MAY 2011.

*Elisabeth G. Turner*  
ELISABETH G. TURNER, P.L.S. #L-4440



I, ELISABETH G. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THIS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 17th DAY OF MAY, 2011.

*Elisabeth G. Turner*  
ELISABETH G. TURNER, P.L.S. #L-4440

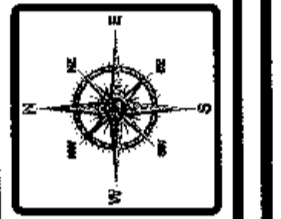


**SHEET INDEX**

- SHEET 5F - TITLE, VICINITY MAP, SHEET KEY, GENERAL NOTES
- SHEET 5G - SFH PLAN VIEW & PROFILE
- SHEET 5H - UT1B PLAN VIEW & PROFILE & CROSS SECTIONS 9-10
- SHEET 5I - UT2 PLAN VIEW & PROFILE AND SFH CROSS SECTIONS 5-8

REVISIONS, DATE AND INITIAL:

TURNER LAND SURVEYING, PLLC  
3201 Glenridge Drive, Raleigh, NC 27604 - (919)875-1378  
P-0702 - Lturner@turnerlandsurveying.com - Dturner@turnerlandsurveying.com  
www.turnerlandsurveying.com



TITLE  
AS-BUILT SURVEY OF  
SOUTH MUDDY CREEK STREAM RESTORATION  
SOUTH FORK HOPPERS CREEK SITE SCO# 05-06667-01  
NORTH CAROLINA  
MCDOWELL COUNTY  
DYSARTSVILLE

DATE: 10/22/2010  
SURVEYED BY: DST/EGT  
DRAWN BY: DST/EGT  
REVIEWED BY: DST/EGT  
PROJECT: TLS-10-007  
FILE: SOUTH FORK HOPPER\_347\_AB\_TLS\_F  
SCALE: NO SCALE

SHEET  
5F

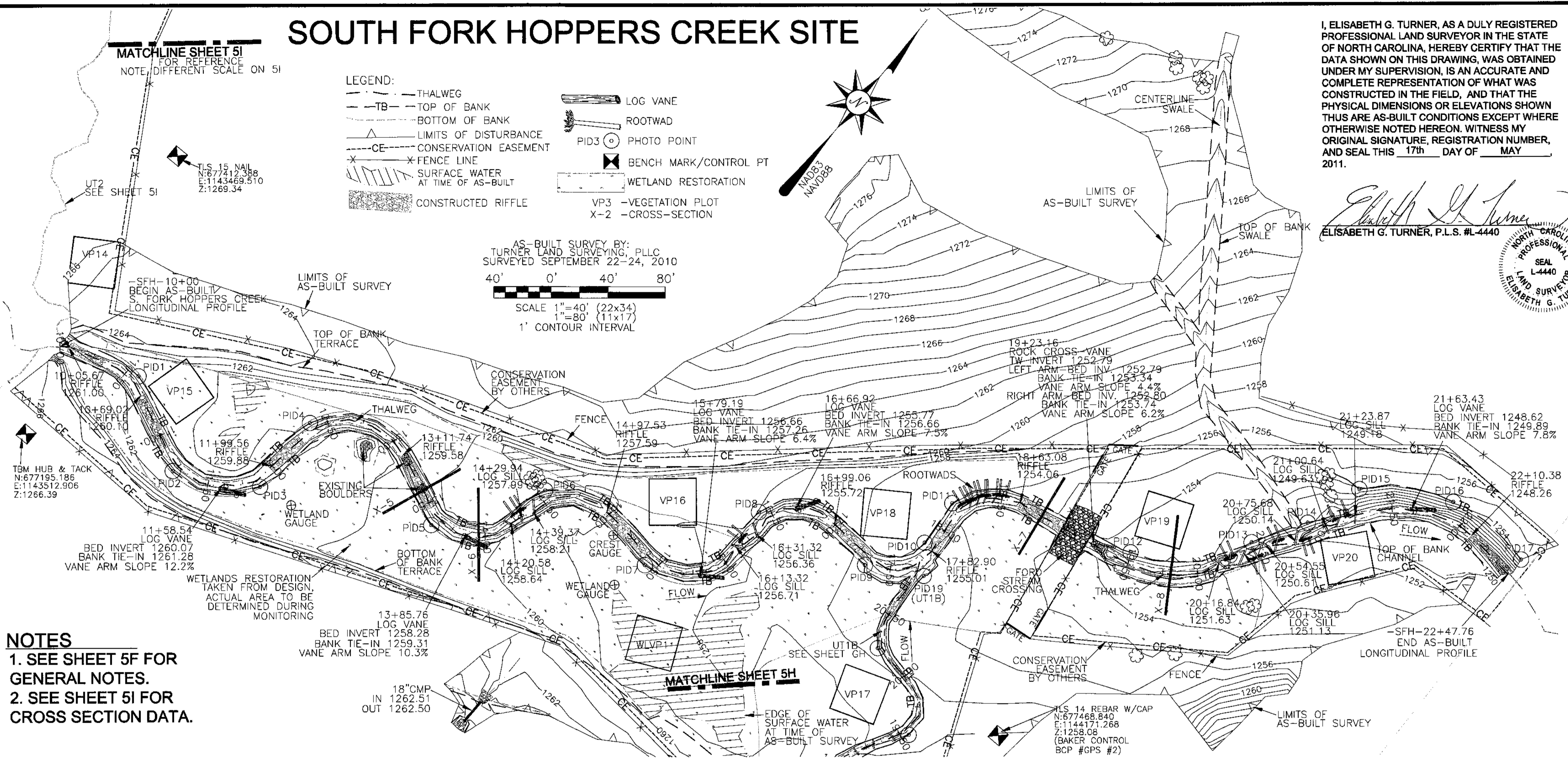
# SOUTH FORK HOPPERS CREEK SITE

I, ELISABETH G. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 17th DAY OF MAY 2011.

*Elisabeth G. Turner*  
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 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR  
 SEAL L-4440  
 ELISABETH G. TURNER

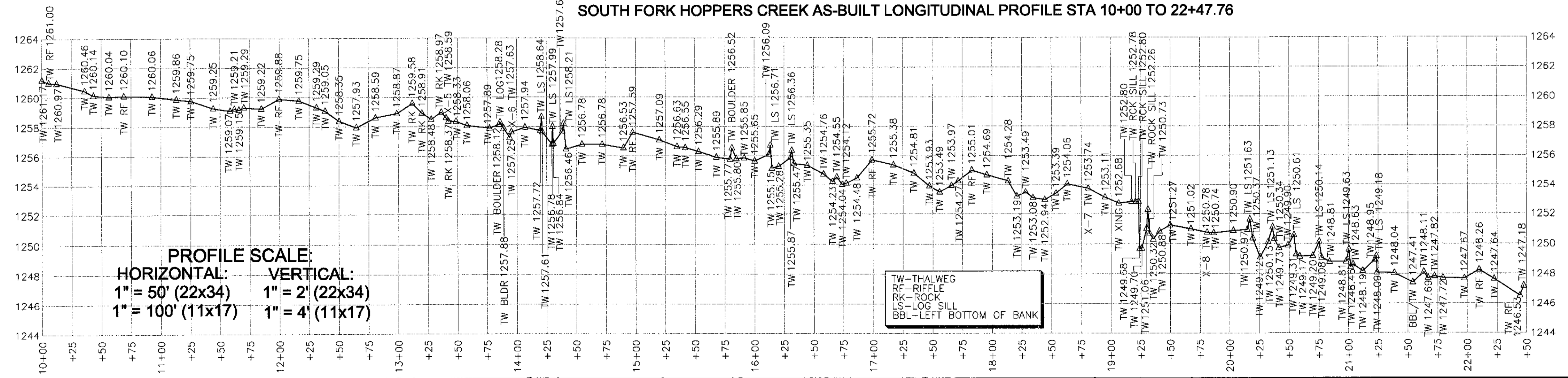
- LEGEND:**
- THALWEG
  - TOP OF BANK
  - BOTTOM OF BANK
  - LIMITS OF DISTURBANCE
  - CONSERVATION EASEMENT
  - FENCE LINE
  - SURFACE WATER AT TIME OF AS-BUILT
  - CONSTRUCTED RIFFLE
  - LOG VANE
  - ROOTWAD
  - PID3 PHOTO POINT
  - BENCH MARK/CONTROL PT
  - WETLAND RESTORATION
  - VP3 - VEGETATION PLOT
  - X-2 - CROSS-SECTION

AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED SEPTEMBER 22-24, 2010  
 SCALE 1"=40' (22x34)  
 1"=80' (11x17)  
 1' CONTOUR INTERVAL



- NOTES**
- SEE SHEET 5F FOR GENERAL NOTES.
  - SEE SHEET 5I FOR CROSS SECTION DATA.

**SOUTH FORK HOPPERS CREEK AS-BUILT LONGITUDINAL PROFILE STA 10+00 TO 22+47.76**

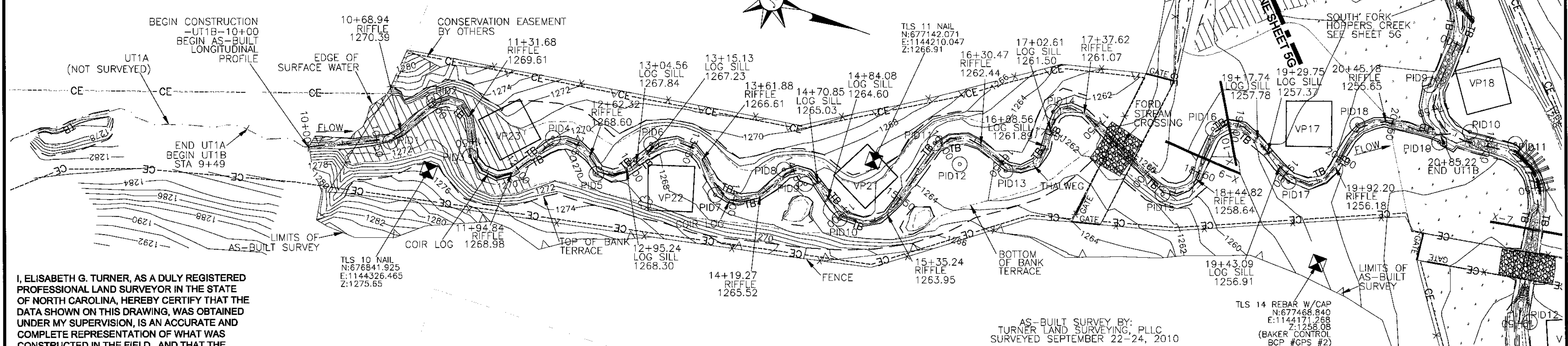


REVISIONS, DATE AND INITIAL:

PLAN VIEW & PROFILE STA 10+00 TO 22+47.76  
 SOUTH FORK HOPPERS CREEK  
**AS-BUILT SURVEY OF  
 SOUTH MUDDY CREEK STREAM RESTORATION**  
 SOUTH FORK HOPPERS CREEK SITE SCO# 05-0667-01  
 MCDOWELL COUNTY  
 DYSARTSVILLE  
 NORTH CAROLINA

|              |                                |
|--------------|--------------------------------|
| DATE:        | 10/22/2010                     |
| SURVEYED BY: | DST/EGT                        |
| DRAWN BY:    | DST/EGT                        |
| REVIEWED BY: | DST/EGT                        |
| PROJECT:     | TLS-10-007                     |
| FILE:        | SOUTH FORK HOPPER_347_AB_TLS_F |
| SCALE:       | AS SHOWN                       |
| SHEET        | <b>5G</b>                      |

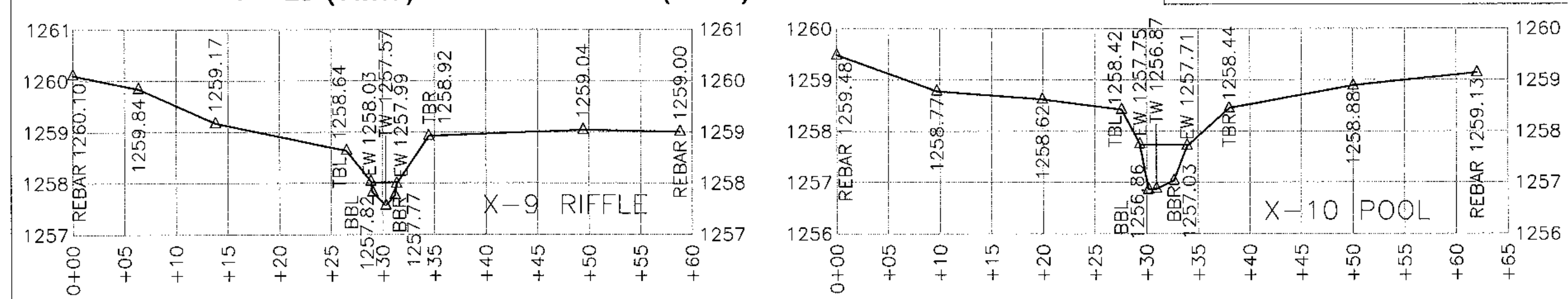
# SOUTH FORK HOPPERS CREEK SITE



I, ELISABETH G. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 17th DAY OF MAY 2011.

*Elisabeth G. Turner*  
 ELISABETH G. TURNER, P.L.S. #L-4440  
 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR  
 SEAL L-4440  
 ELISABETH G. TURNER

**UT1B CROSS SECTIONS 9-10**  
**CROSS SECTION SCALE:**  
 HORIZONTAL: 1" = 10' (22x34) VERTICAL: 1" = 2' (22x34)  
 1" = 20' (11x17) 1" = 4' (11x17)

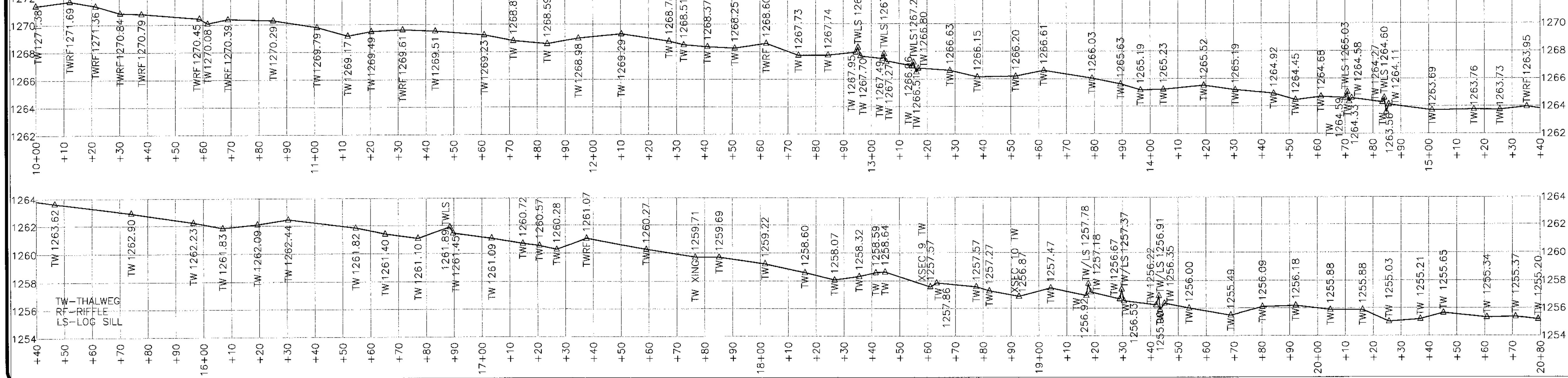


TW—THALWEG  
 EW—EDGE OF WATER  
 TB—LEFT TOP OF BANK  
 TB—RIGHT TOP OF BANK  
 BB—LEFT BOTTOM OF BANK  
 BB—RIGHT BOTTOM OF BANK

AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED SEPTEMBER 22-24, 2010  
 SCALE 1" = 40' (22x34)  
 1" = 80' (11x17)  
 1' CONTOUR INTERVAL

- LEGEND:**
- THALWEG
  - TB — TOP OF BANK
  - BB — BOTTOM OF BANK
  - CE — CONSERVATION EASEMENT
  - X — FENCE LINE
  - VP3 — VEGETATION PLOT
  - X-2 — CROSS-SECTION
  - SURFACE WATER AT TIME OF AS-BUILT
  - CONSTRUCTED RIFFLE
  - PID3 — PHOTO POINT
  - BENCH MARK/CONTROL PT
  - WETLAND RESTORATION

**UT1B AS-BUILT LONGITUDINAL PROFILE**  
**STA 10+00 TO 20+80**



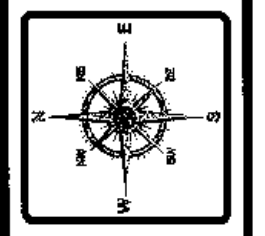
**PROFILE SCALE:**  
 HORIZONTAL: 1" = 20' (22x34) VERTICAL: 1" = 4' (22x34)  
 1" = 40' (11x17) 1" = 8' (11x17)

TW—THALWEG  
 R—RIFFLE  
 LS—LOG SILL

**NOTES**  
 1. SEE SHEET 5E FOR GENERAL NOTES.

REVISIONS, DATE AND INITIAL:

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 3201 Glenridge Drive, Raleigh, NC 27604 - (919)875-1378  
 P-0702 - Lturner@tnc.com - Dturner119@tnc.com  
 www.TURNERLANDSURVEYING.COM



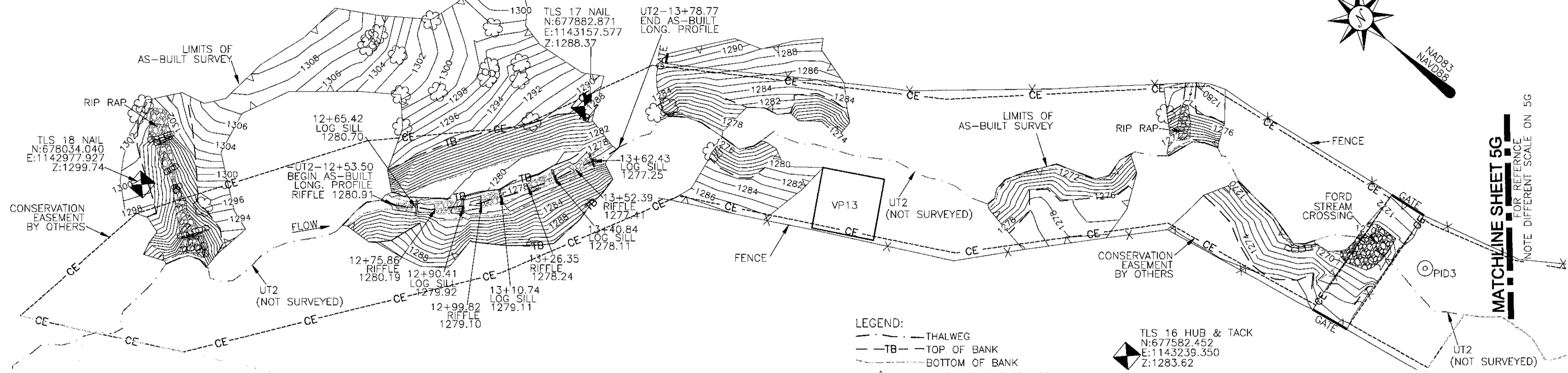
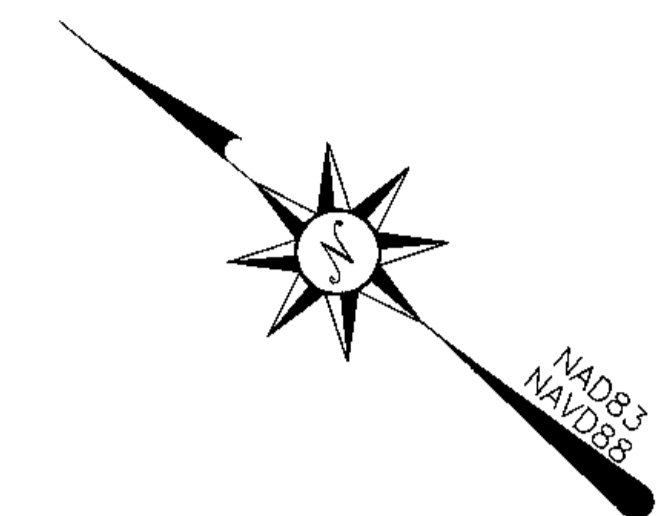
UT 1B PLAN VIEW & PROFILE STA 10+00 TO 20+80  
 & CROSS SECTIONS 9-10

AS-BUILT SURVEY OF

**SOUTH MUDDY CREEK STREAM RESTORATION**  
 SOUTH FORK HOPPERS CREEK SITE SCO# 05-0667-01  
 McDowell County, North Carolina

|              |                                |
|--------------|--------------------------------|
| DATE:        | 10/22/2010                     |
| SURVEYED BY: | DST/EGT                        |
| DRAWN BY:    | DST/EGT                        |
| REVIEWED BY: | DST/EGT                        |
| PROJECT:     | TLS-10-007                     |
| FILE:        | SOUTH FORK HOPPER 347_AB_TLS.F |
| SCALE:       | AS SHOWN                       |
| SHEET        | <b>5H</b>                      |

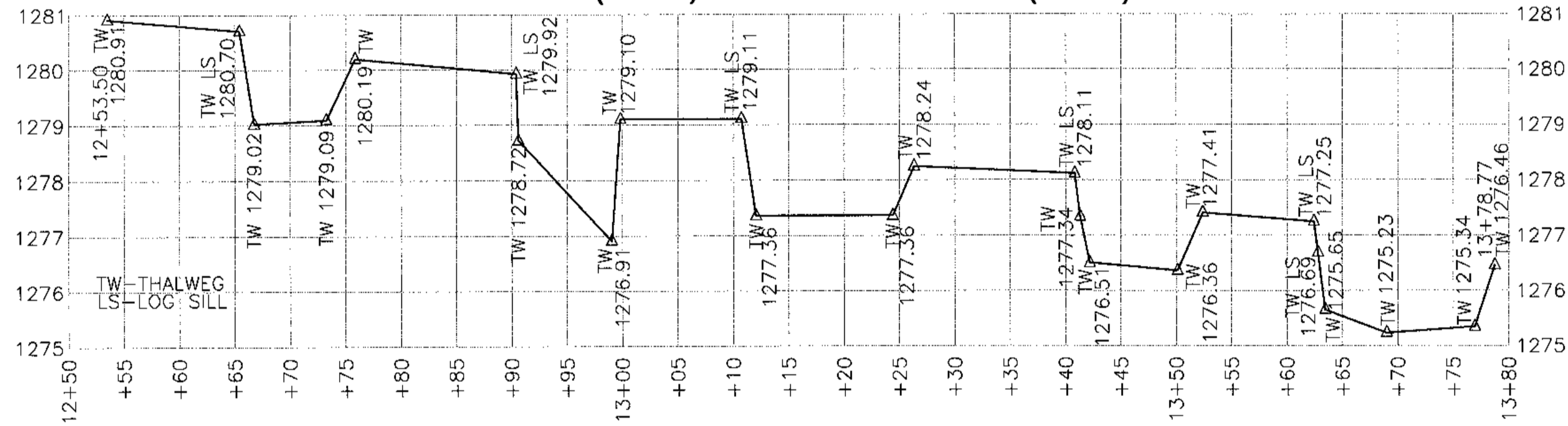
# SOUTH FORK HOPPERS CREEK SITE



## UT2 AS-BUILT LONGITUDINAL PROFILE STA 12+53.50 TO 13+78.77

PROFILE SCALE:

HORIZONTAL: 1" = 10' (22x34)      VERTICAL: 1" = 2' (22x34)  
 1" = 20' (11x17)                      1" = 4' (11x17)



- LEGEND:**
- THALWEG
  - TB — TOP OF BANK
  - BOTTOM OF BANK
  - △ LIMITS OF DISTURBANCE
  - - - CONSERVATION EASEMENT
  - \* FENCE LINE
  - ⊠ BENCH MARK/CONTROL PT
  - ▣ CONSTRUCTED RIFFLE

TLS 16 HUB & TACK  
 N:677582.452  
 E:1143239.350  
 Z:1283.62

AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED SEPTEMBER 12-24, 2010

30' 0' 30' 60'

SCALE 1" = 30' (22x34)  
 1" = 60' (11x17)  
 1' CONTOUR INTERVAL

I, ELISABETH G. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 17th DAY OF MAY, 2011.

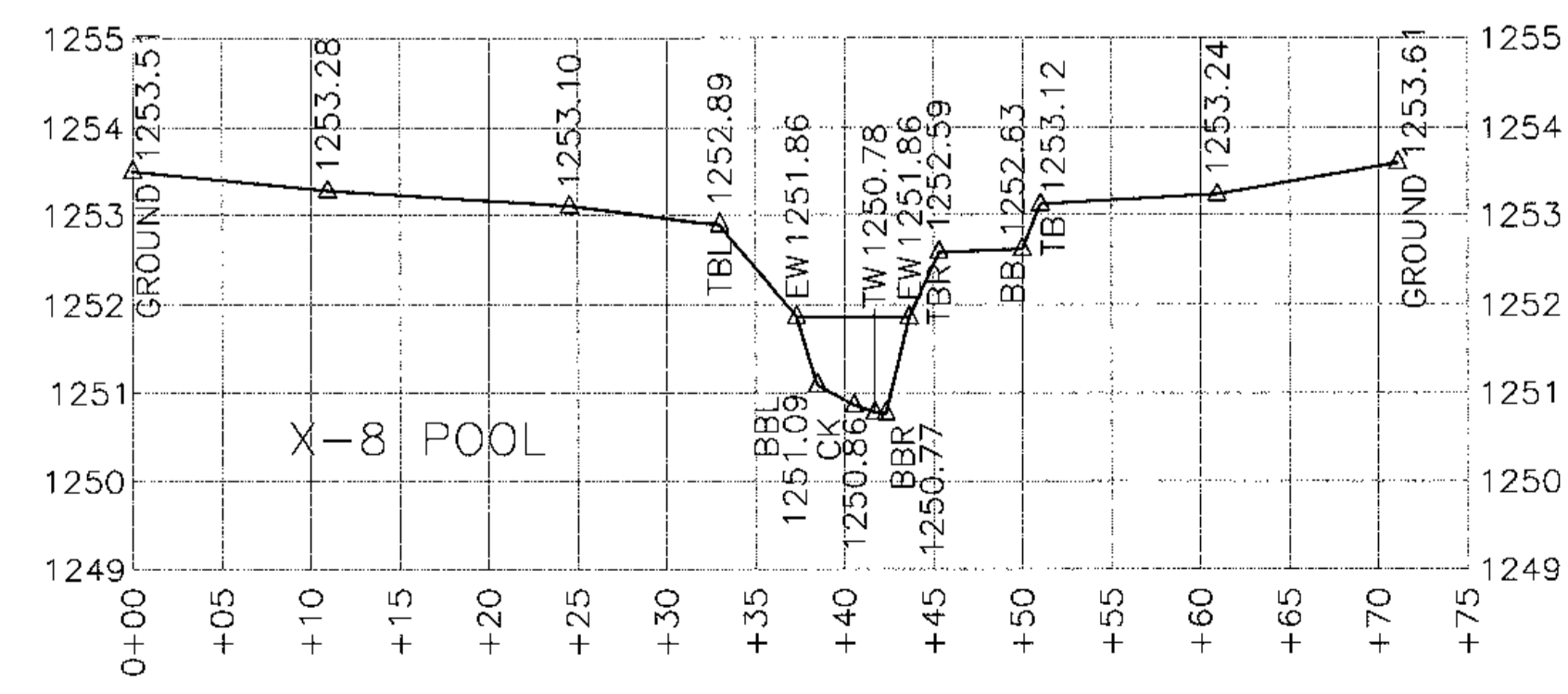
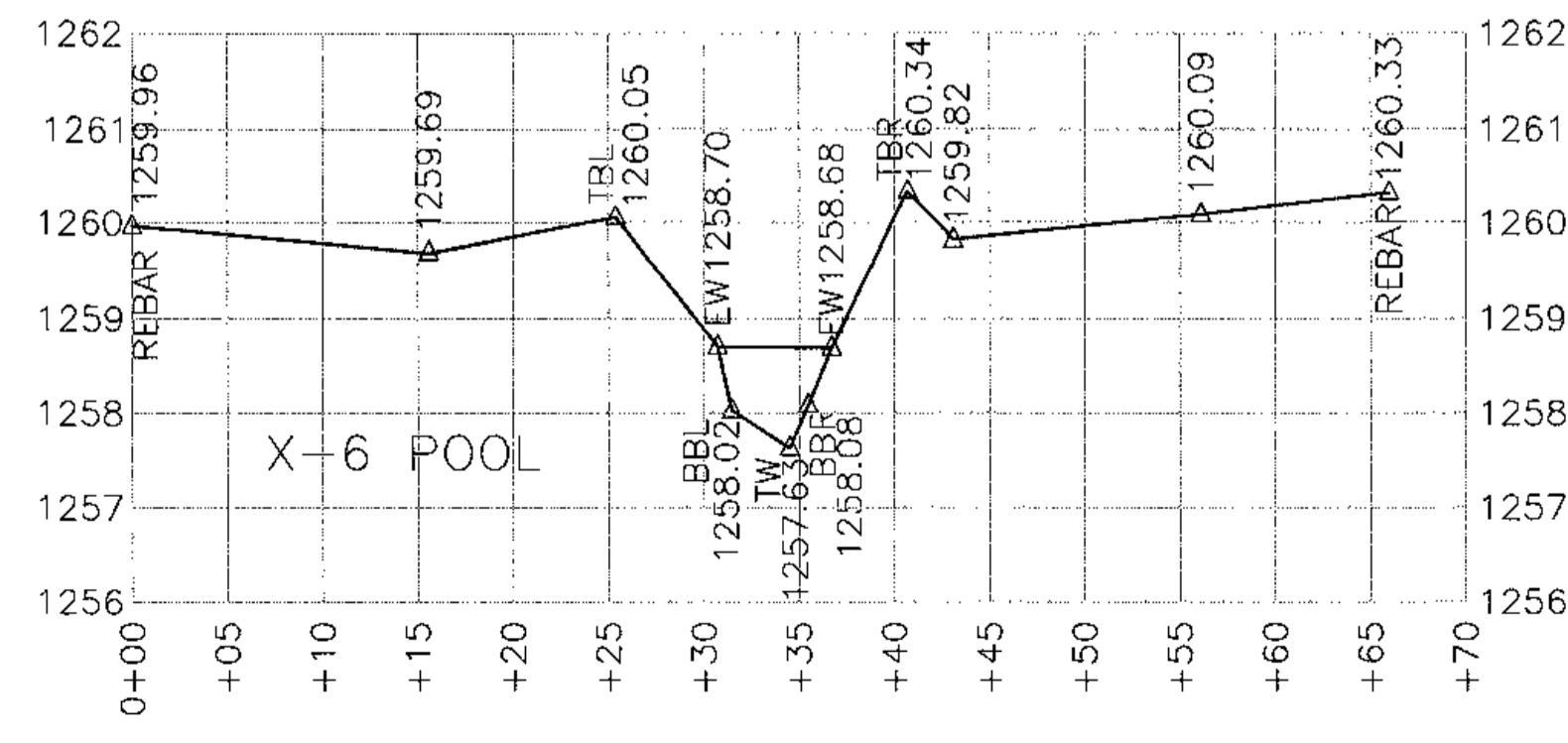
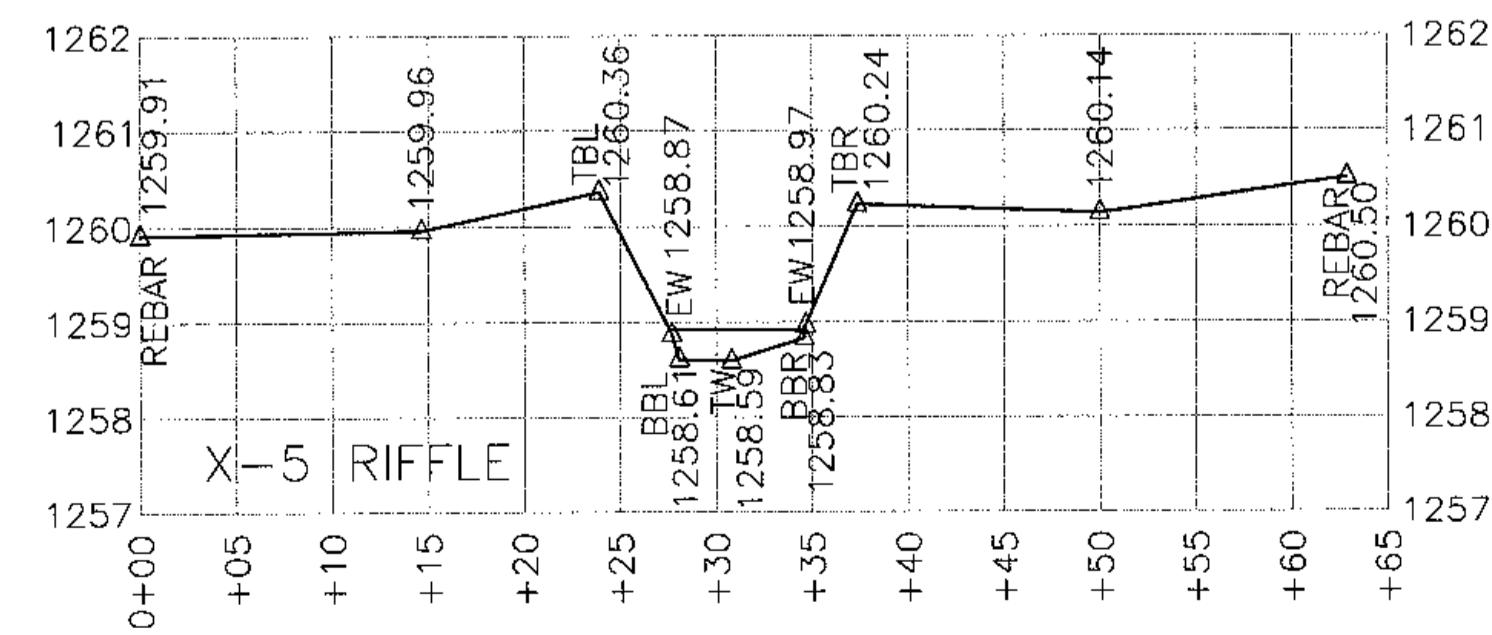
*Elisabeth G. Turner*  
 ELISABETH G. TURNER, P.L.S. #L-4440

**NOTES**  
 1. SEE SHEET 5E FOR GENERAL NOTES.

**CROSS SECTION SCALE:**  
 HORIZONTAL: 1" = 10' (22x34)  
 1" = 20' (11x17)  
 VERTICAL: 1" = 2' (22x34)  
 1" = 4' (11x17)

TW — THALWEG  
 EW — EDGE OF WATER  
 TBL — LEFT TOP OF BANK  
 TBR — RIGHT TOP OF BANK  
 BBL — LEFT BOTTOM OF BANK  
 BBR — RIGHT BOTTOM OF BANK

## SOUTH FORK HOPPERS CREEK CROSS SECTIONS 5-8



UT2 PLAN VIEW & PROFILE  
 & SOUTH FORK HOPPERS CREEK CROSS SECTIONS 5-8  
 AS-BUILT SURVEY OF  
 SOUTH MUDDY CREEK STREAM RESTORATION  
 SOUTH FORK HOPPERS CREEK SITE

TURNER LAND SURVEYING, PLLC  
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 P-0702 - Lturner921@nc.rr.com - Dturner119@nc.rr.com  
 www.TURNERLANDSURVEYING.com

|              |                                |
|--------------|--------------------------------|
| DATE:        | 10/22/2010                     |
| SURVEYED BY: | DST/EGT                        |
| DRAWN BY:    | DST/EGT                        |
| REVIEWED BY: | DST/EGT                        |
| PROJECT:     | TLS-10-007                     |
| FILE:        | SOUTH FORK HOPPER_347_AB_TLS.F |
| SCALE:       | AS SHOWN                       |

SHEET  
51