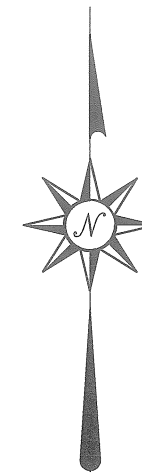


# AS-BUILT SURVEY OF: SHADRICK CREEK RESTORATION PROJECT

McDOWELL COUNTY, NC  
SCO PROJECT 15-11633-01  
DMS PROJECT 92916



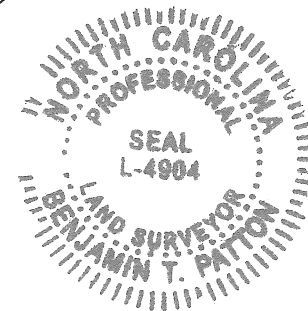
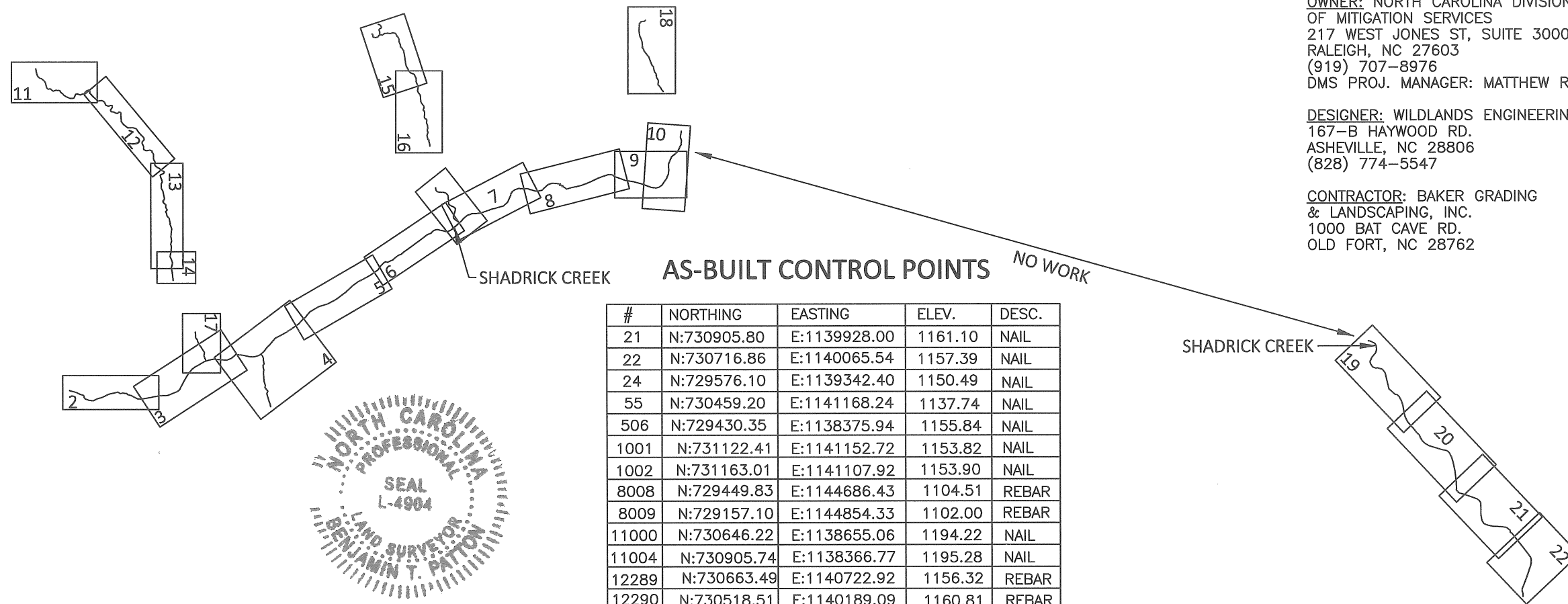
SHEET 1-	TITLE, VICINITY, & INDEX
SHEET 2-	REACH 1 STA 10+00 TO 14+50
SHEET 3-	REACH 1 STA 14+50 TO 19+00
SHEET 4-	REACH 1 STA 19+00 TO 23+50
SHEET 5-	REACH 1 STA 23+50 TO 28+00
SHEET 6-	REACH 1 STA 28+00 TO 32+50
SHEET 7-	REACH 1 STA 32+50 TO 37+00
SHEET 8-	REACH 1 STA 37+00 TO 41+50
SHEET 9-	REACH 1 STA 41+50 TO 45+00
SHEET 10-	REACH 1 STA 45+00 TO 46+83.61
SHEET 11-	UT1 STA 10+00 TO 14+50
SHEET 12-	UT1 STA 14+50 TO 19+50
SHEET 13-	UT1 STA 19+50 TO 24+50
SHEET 14-	UT1 STA 24+50 TO 30+57.62
SHEET 15-	UT9 STA 9+90 TO 13+50
SHEET 16-	UT9 STA 13+50 TO 17+50
SHEET 17-	UT9 STA 19+59 TO 22+08.27
SHEET 18-	UT10 STA 9+92.20 TO 13+96.15
SHEET 19-	REACH 2 STA 100+04.67 TO 104+50
SHEET 20-	REACH 2 STA 104+50 TO 109+00
SHEET 21-	REACH 2 STA 109+00 TO 113+50
SHEET 22-	REACH 2 STA 113+50 TO 117+26.82
SHEET 23-	PLANTING

### REFERENCES:

**OWNER:** NORTH CAROLINA DIVISION OF MITIGATION SERVICES  
217 WEST JONES ST, SUITE 3000A  
RALEIGH, NC 27603  
(919) 707-8976  
DMS PROJ. MANAGER: MATTHEW REID

**DESIGNER:** WILDLANDS ENGINEERING, INC.  
167-B HAYWOOD RD.  
ASHEVILLE, NC 28806  
(828) 774-5547

**CONTRACTOR:** BAKER GRADING & LANDSCAPING, INC.  
1000 BAT CAVE RD.  
OLD FORT, NC 28762



### NOTES

- DISTANCES ARE HORIZONTAL GROUND MEASURED IN US SURVEY FEET
- HORIZONTAL DATUM: NAD 83 (2011) / VERTICAL DATUM: NAVD 88
- AS-BUILT SURVEY BASED ON EXISTING CONTROL FROM DESIGNER AND GPS VERIFICATION BY BEN PATTON LAND SURVEYING, PLLC.
- THIS MAP DOES NOT CONFORM TO NCGS 47-30, AND THEREFORE IS NOT FOR RECORDATION.
- THE PURPOSE OF THIS SURVEY IS TO SHOW THE AS-BUILT CONDITIONS OF THE CREEK/TRIBUTARY RESTORATION AND MAY NOT SHOW ALL EXISTING UTILITIES, STRUCTURES, BOUNDARIES, OR EASEMENTS.
- A BOUNDARY SURVEY WAS NOT PERFORMED. SEE PB 19 PG 30-32 FOR CONSERVATION EASEMENT.

I, BENJAMIN T. PATTON, PLS CERTIFY THAT THIS AS-BUILT MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY OF THE POST-CONSTRUCTION CONDITIONS PERFORMED UNDER MY SUPERVISION. DIMENSIONS AND ELEVATIONS SHOWN ARE POST-CONSTRUCTION CONDITIONS UNLESS NOTED OTHERWISE. WITNESS MY HAND AND SEAL THIS 31st DAY OF MAY, 2017.

*Benjamin T. Patton* 5-31-17  
BENJAMIN T. PATTON, PLS # 4904      DATE

REVISIONS:

TITLE, VICINITY MAP, & SHEET INDEX

**SHADRICK CREEK  
RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

REVIEWED: BTP

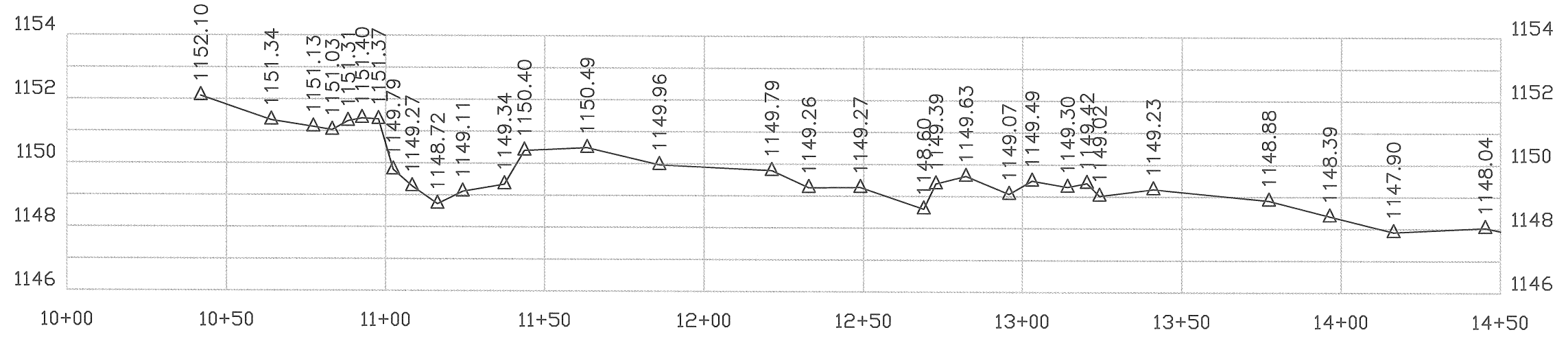
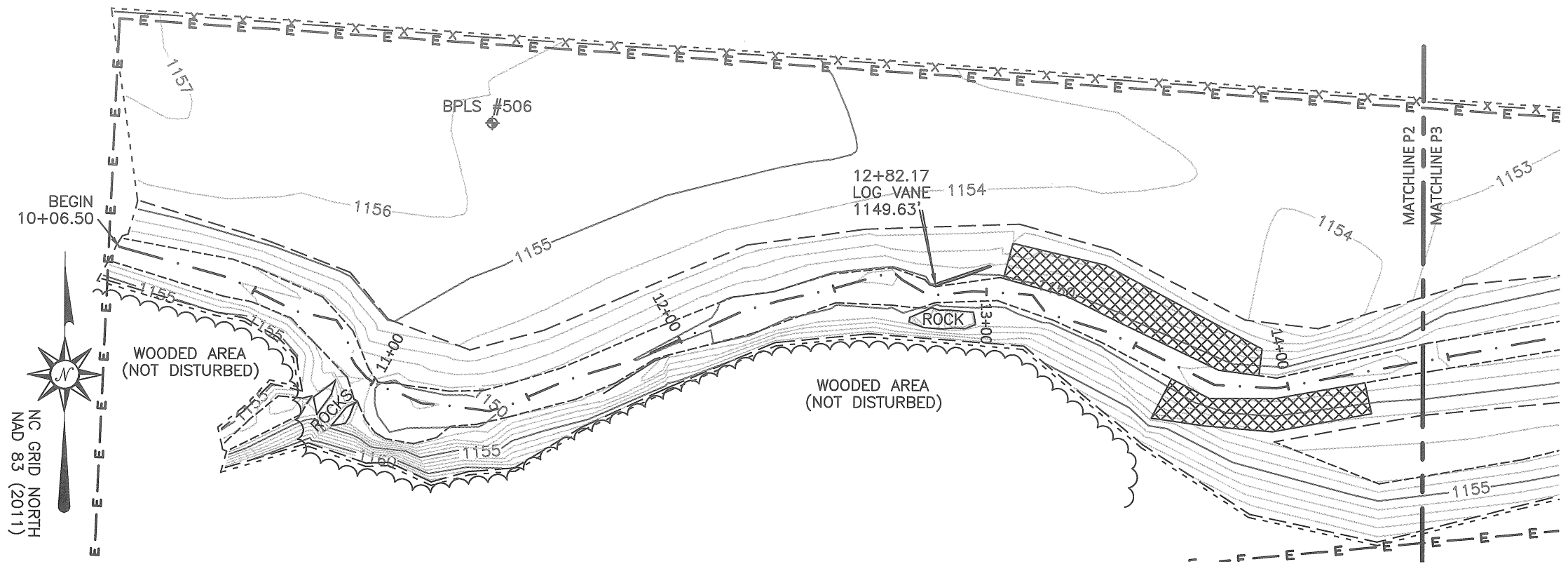
BPLS PRO. # 16075

SCALE: NONE

SHEET:  
**1 of 23**

**BPLS**  
BEN PATTON LAND SURVEYING, PLLC

SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

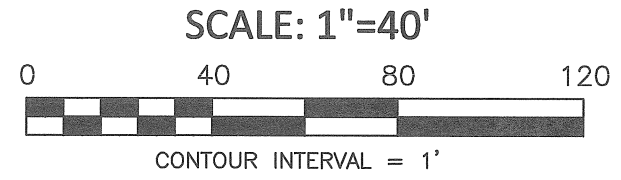
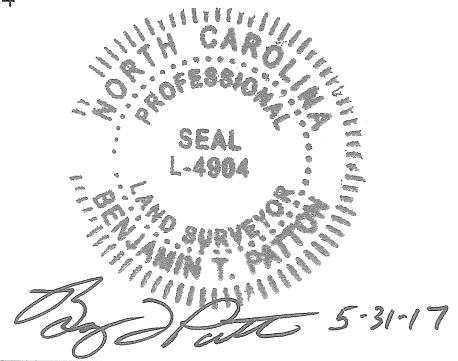


**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- ..... AS-BUILT SURVEY LIMITS
- x - x - BARBED WIRE FENCE
- TOP OF BANK/TERRACE
- TOE OF BANK/TERRACE
- THALWEG
- ~~~~~ TREELINE
- [STONE PATTERN] STONE
- [CONSTRUCTED RIFFLE PATTERN] CONSTRUCTED RIFFLE
- [BRUSH MATTRESS PATTERN] BRUSH MATTRESS
- EASEMENT DISK
- ◆ CONTROL POINT
- ⊕ BOULDER / ROCKS
- [LOG VANE PATTERN] LOG VANE
- [GEOLIFT PATTERN] GEOLIFT

**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



REVISIONS:

**BPLS**

**BEN PATTON LAND SURVEYING, PLLC**

SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

REACH 1 STA. 10+06.50 TO 14+50

**SHADRICK CREEK RESTORATION PROJECT**

DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

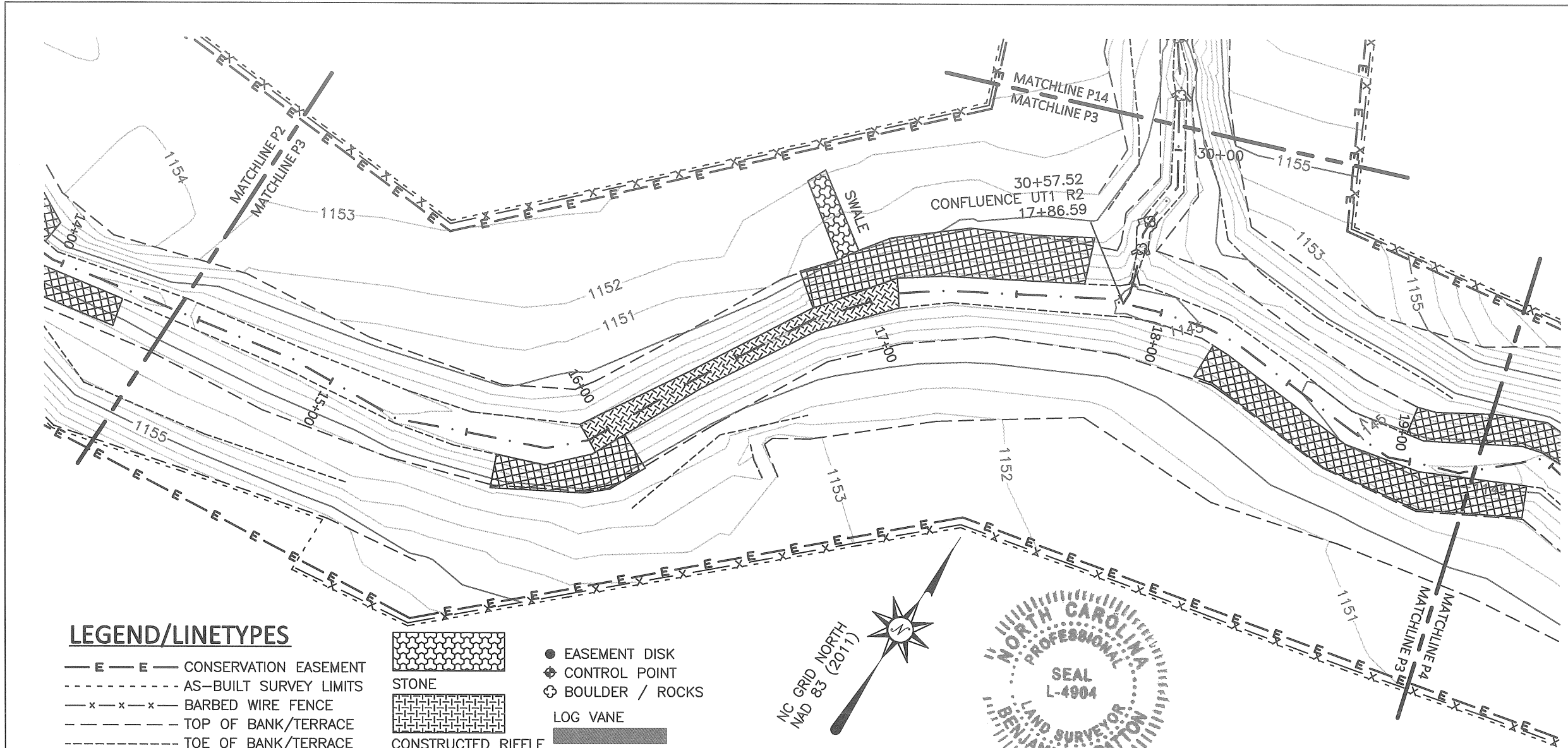
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

SHEET:  
**2 of 23**

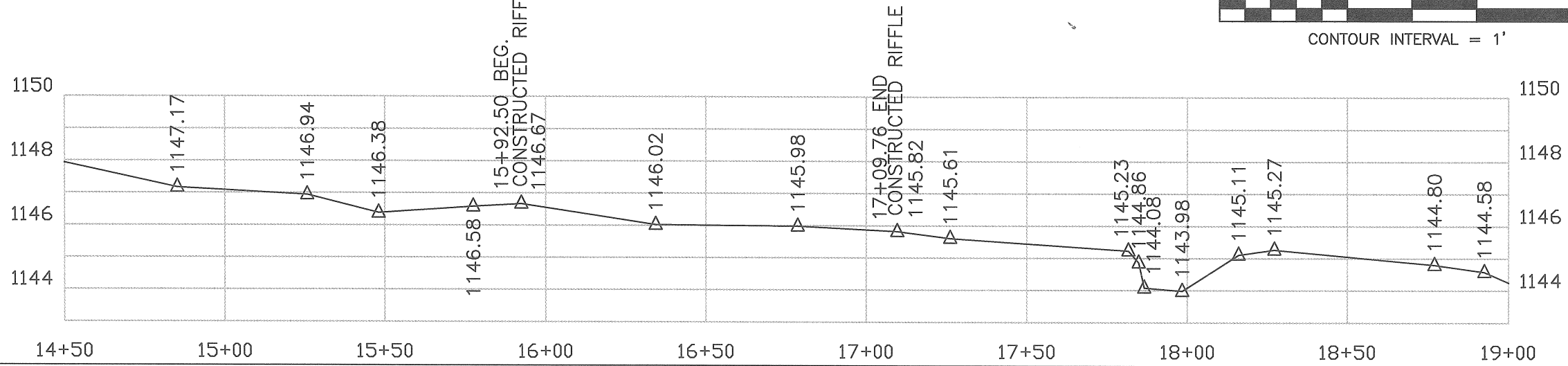
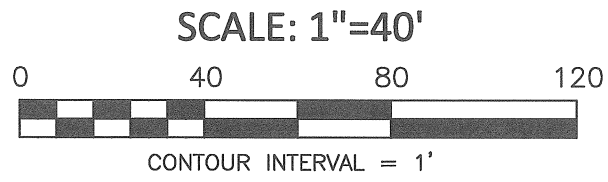
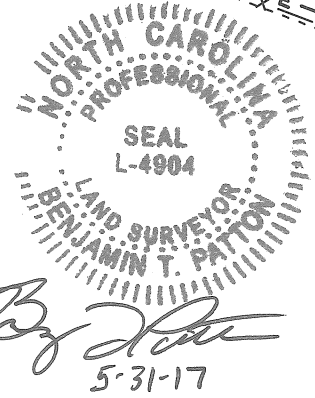


**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - - AS-BUILT SURVEY LIMITS
- x - x - BARBED WIRE FENCE
- - - - TOP OF BANK/TERRACE
- - - - TOE OF BANK/TERRACE
- - - - THALWEG
- ~ ~ ~ TREELINE
- [STONE PATTERN] STONE
- [CONSTRUCTED RIFFLE PATTERN] CONSTRUCTED RIFFLE
- [BRUSH MATTRESS PATTERN] BRUSH MATTRESS
- EASEMENT DISK
- ⊕ CONTROL POINT
- ⊗ BOULDER / ROCKS
- [LOG VANE PATTERN] LOG VANE
- [GEOLIFT PATTERN] GEOLIFT

**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



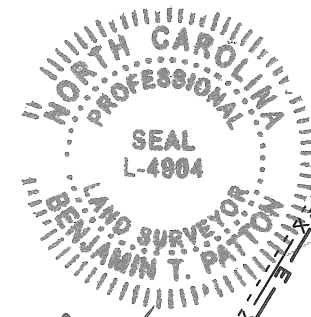
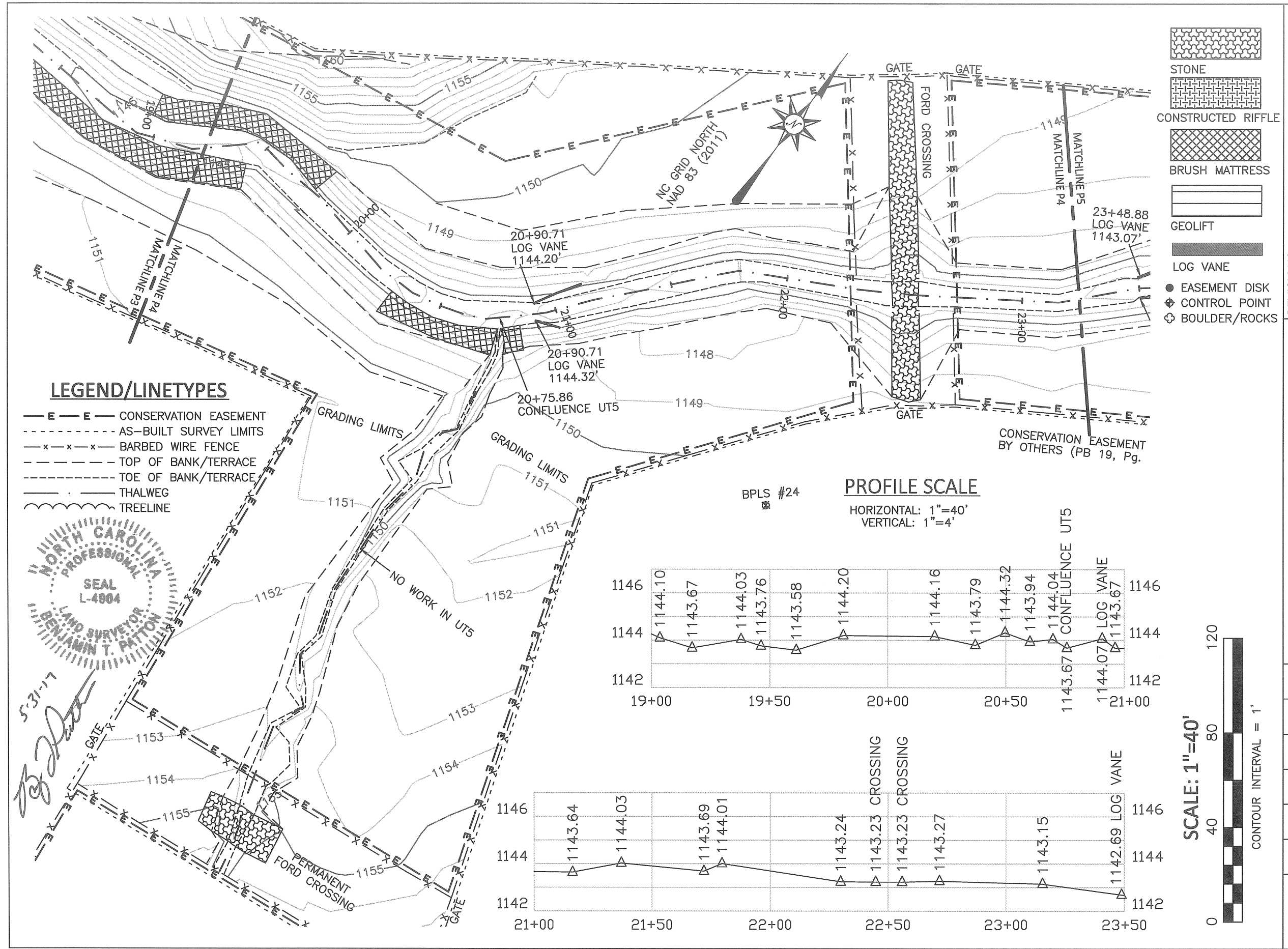
REVISIONS:

**BPLS**  
BEN PATTON LAND SURVEYING, PLLC  
SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

REACH 1 STA. 14+50 TO 19+00

**SHADRICK CREEK RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17  
FIELD: JSM, BTP  
DRAWN: JSM, BTP  
REVIEWED: BTP  
BPLS PRO. # 16075  
SCALE: 1"=40'  
SHEET:  
**3 of 23**



5-31-17  
*[Signature]*

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

---

REACH 1 STA. 19+00 TO 23+50

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

---

DATE: 5/31/17

FIELD: JSM, BTP

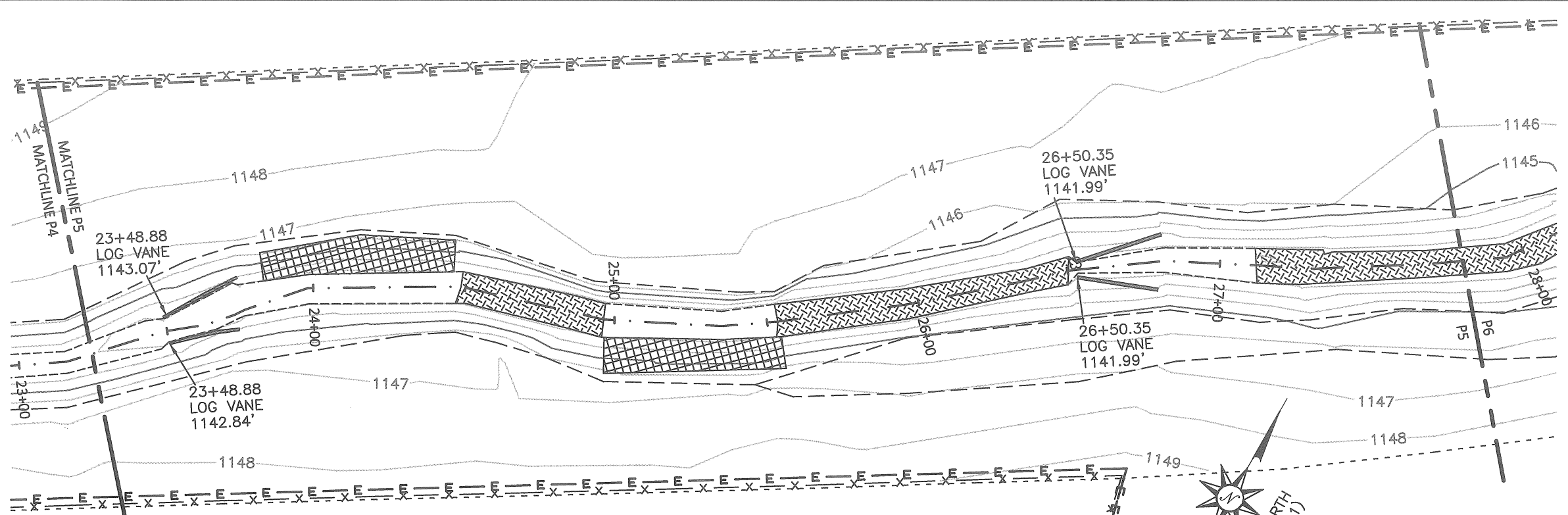
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

SHEET:  
**4 of 23**



CONSERVATION EASEMENT  
BY OTHERS (PB 19, Pg. 30)

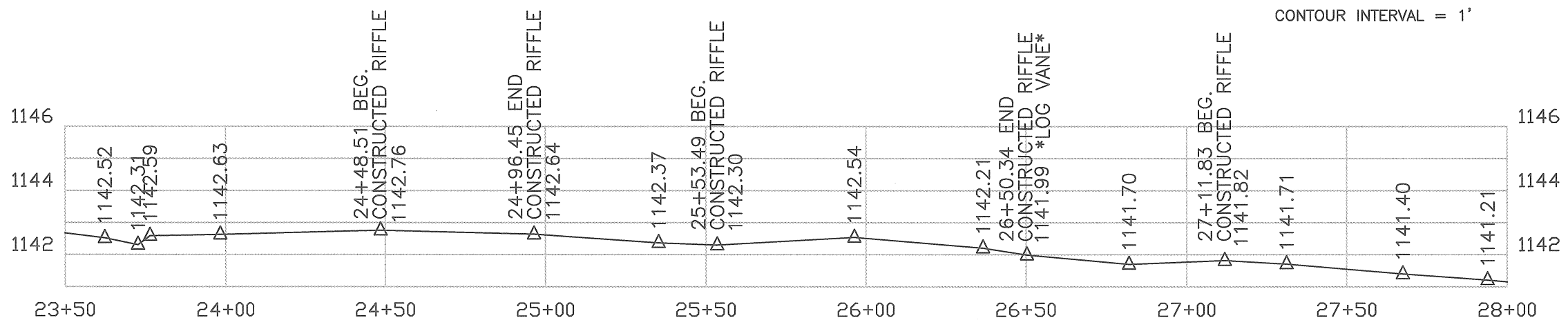
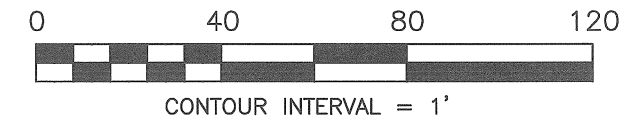
**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - - AS-BUILT SURVEY LIMITS
- x - x - x - BARBED WIRE FENCE
- - - - TOP OF BANK/TERRACE
- - - - TOE OF BANK/TERRACE
- . - . - THALWEG
- ~ ~ ~ TREELINE

- STONE
- CONSTRUCTED RIFFLE
- BRUSH MATTRESS
- EASEMENT DISK
- CONTROL POINT
- BOULDER / ROCKS
- LOG VANE
- GEOLIFT

**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



REVISIONS:

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

REACH 1 STA 23+50 TO 28+00

**SHADRICK CREEK  
 RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

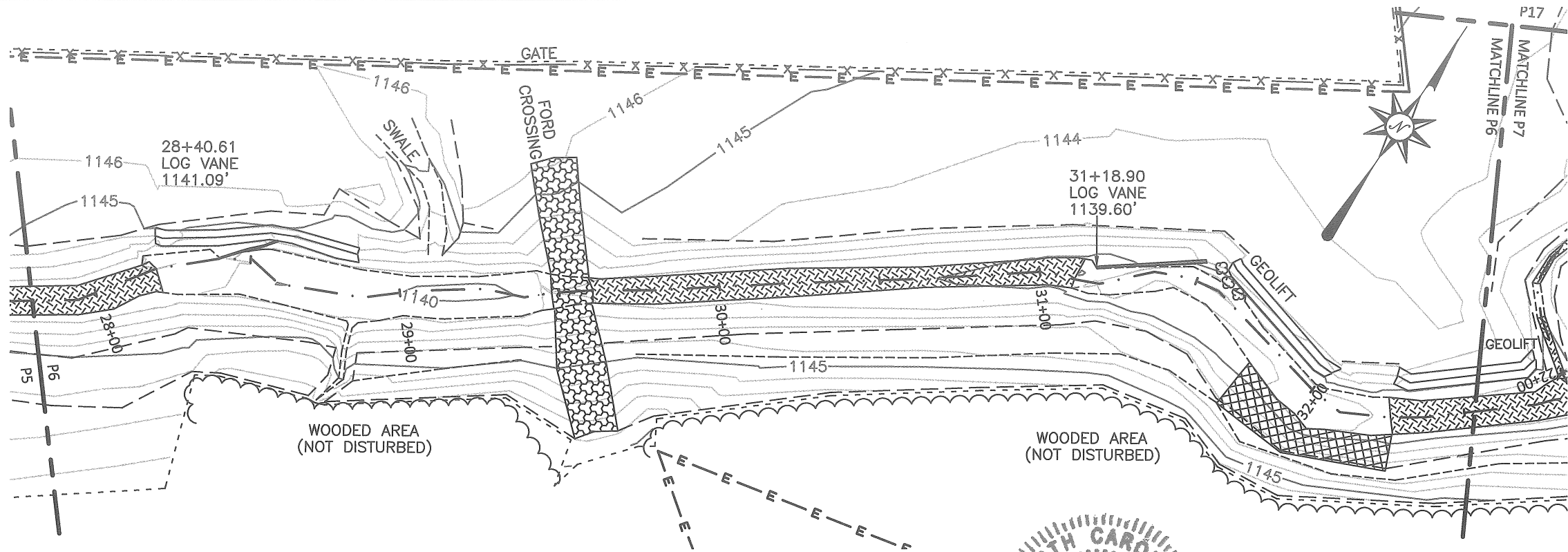
REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

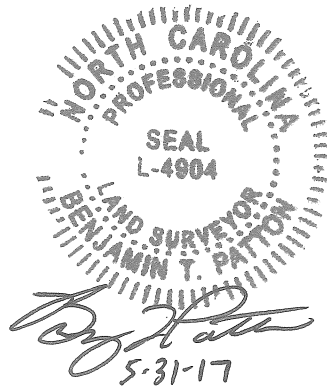
SHEET:  
**5 of 23**

00+6C

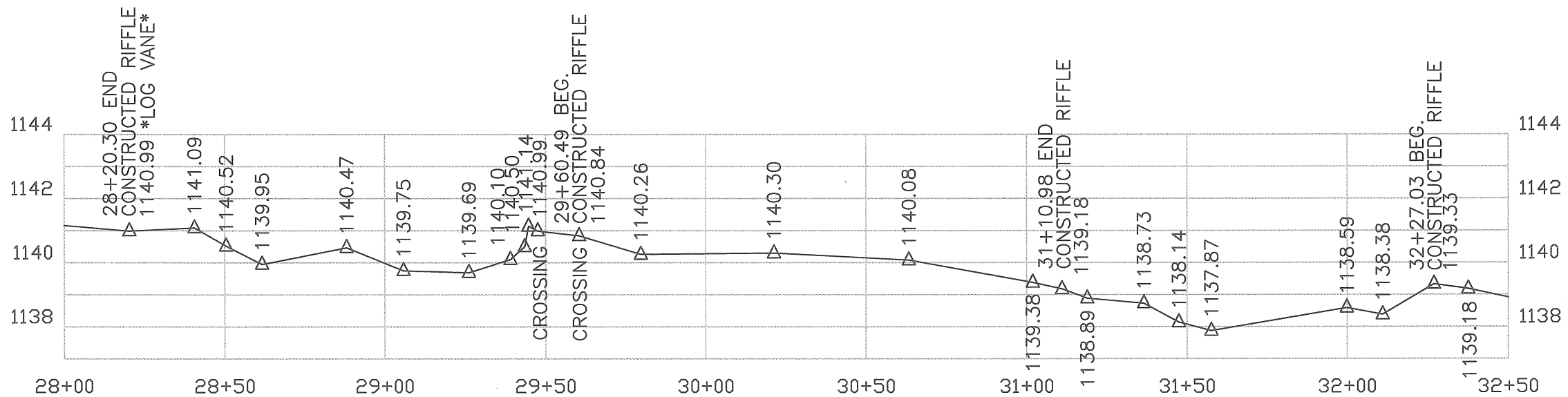
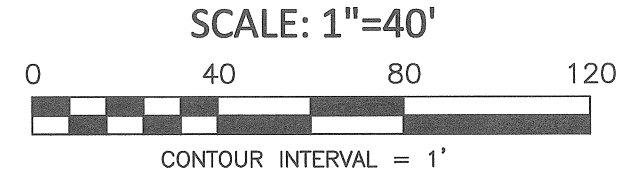


**LEGEND/LINETYPES**

- |               |                        |  |   |                    |
|---------------|------------------------|--|---|--------------------|
| — E — E —     | CONSERVATION EASEMENT  |  | ● | EASEMENT DISK      |
| - - - - -     | AS-BUILT SURVEY LIMITS |  | ⊕ | CONTROL POINT      |
| - x - x - x - | BARBED WIRE FENCE      |  | ⊗ | BOULDER / ROCKS    |
| - - - - -     | TOP OF BANK/TERRACE    |  | ▬ | LOG VANE           |
| - - - - -     | TOE OF BANK/TERRACE    |  | ▬ | CONSTRUCTED RIFFLE |
| - - - - -     | THALWEG                |  | ▬ | BRUSH MATTRESS     |
| ~~~~~         | TREELINE               |  | ▬ | GEO-LIFT           |



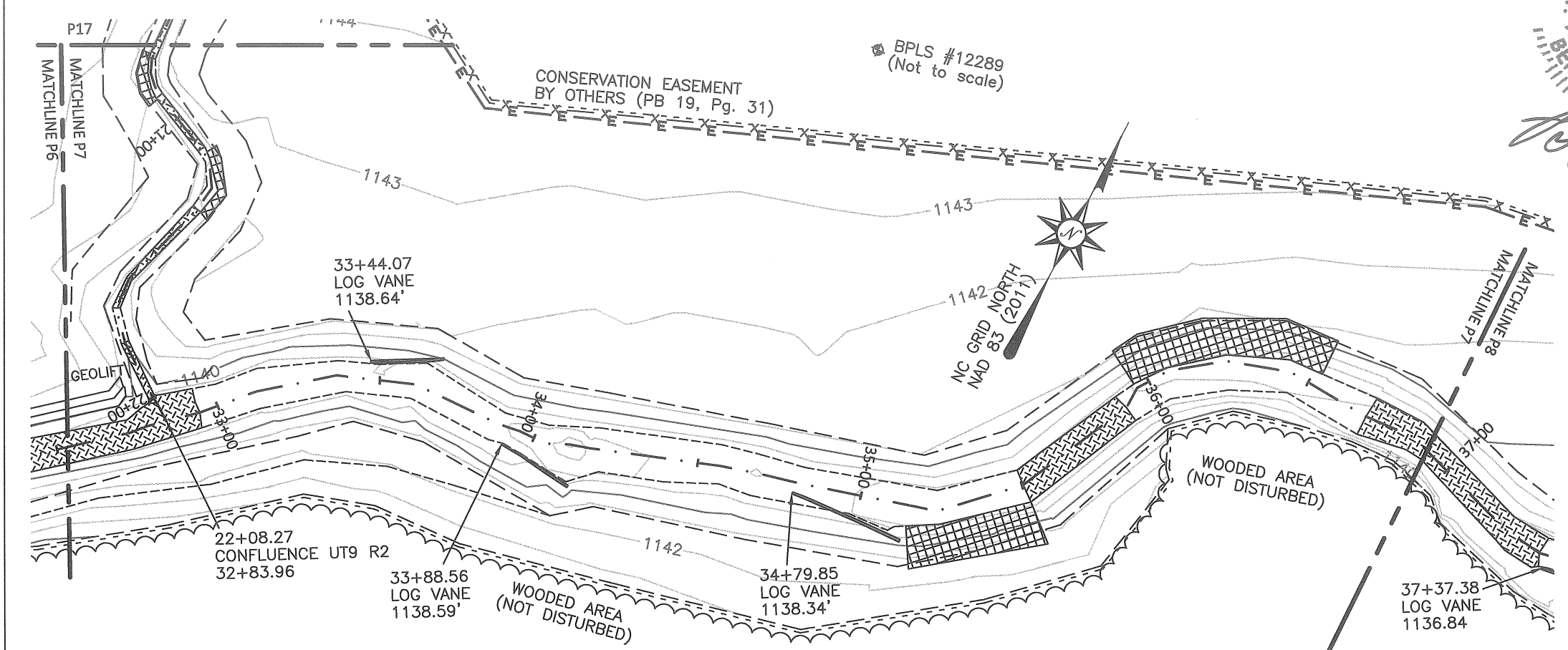
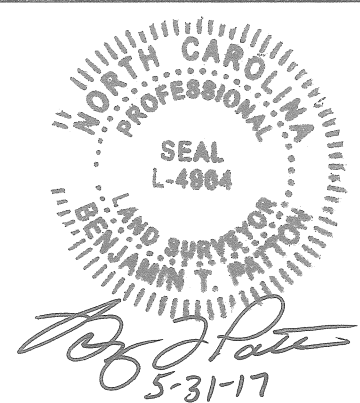
**PROFILE SCALE**  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'



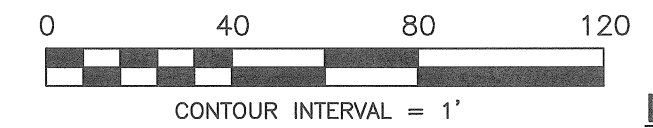
**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

REVISIONS:  
 REACH 1 28+00 TO 32+50  
**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 MCDOWELL COUNTY, NC

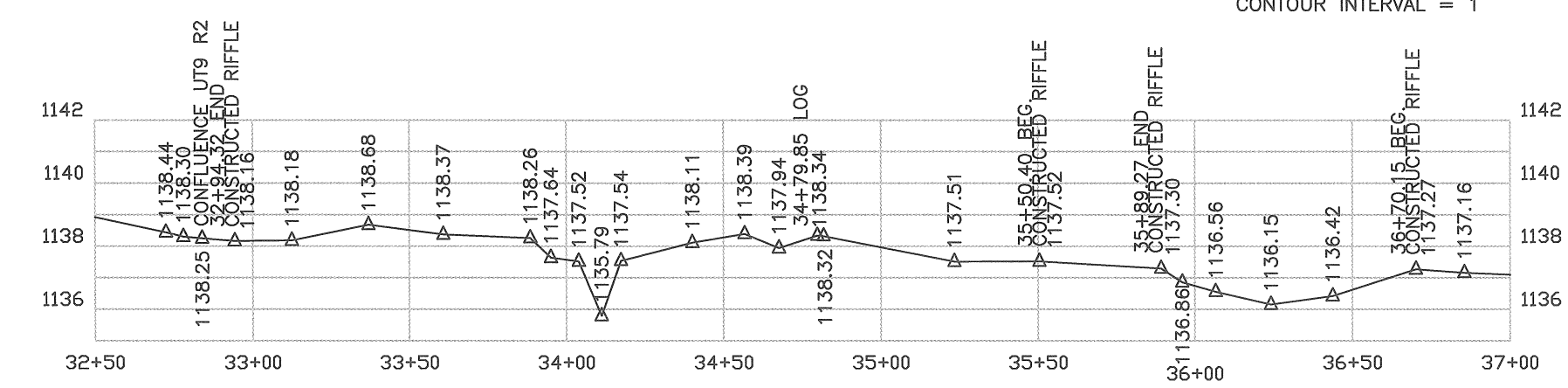
DATE: 5/31/17  
 FIELD: JSM, BTP  
 DRAWN: JSM, BTP  
 REVIEWED: BTP  
 BPLS PRO. # 16075  
 SCALE: 1"=40'  
 SHEET:  
**6 of 23**



SCALE: 1"=40'



**PROFILE SCALE**  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'



**LEGEND/LINETYPES**

	CONSERVATION EASEMENT
	AS-BUILT SURVEY LIMITS
	BARBED WIRE FENCE
	TOP OF BANK/TERRACE
	TOE OF BANK/TERRACE
	THALWEG
	TREELINE
	STONE
	CONSTRUCTED RIFFLE
	BRUSH MATTRESS
	EASEMENT DISK
	CONTROL POINT
	BOULDER / ROCKS
	LOG VANE
	GEOLIFT

REVISIONS:

REACH 1 STA 32+50 TO 37+00

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDowell County, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

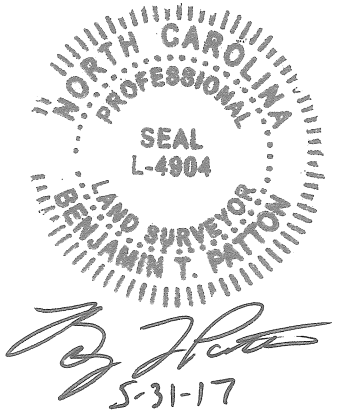
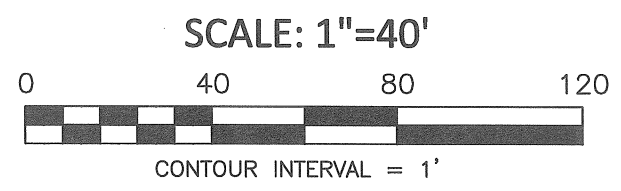
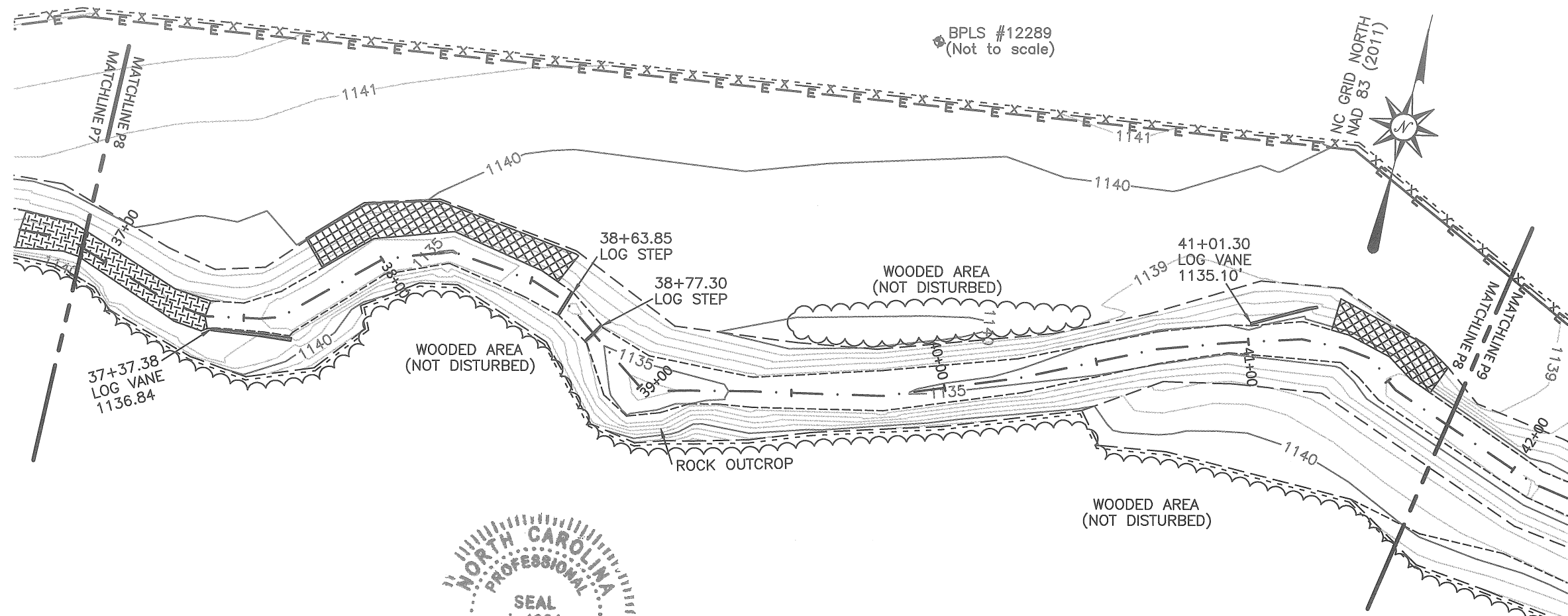
REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

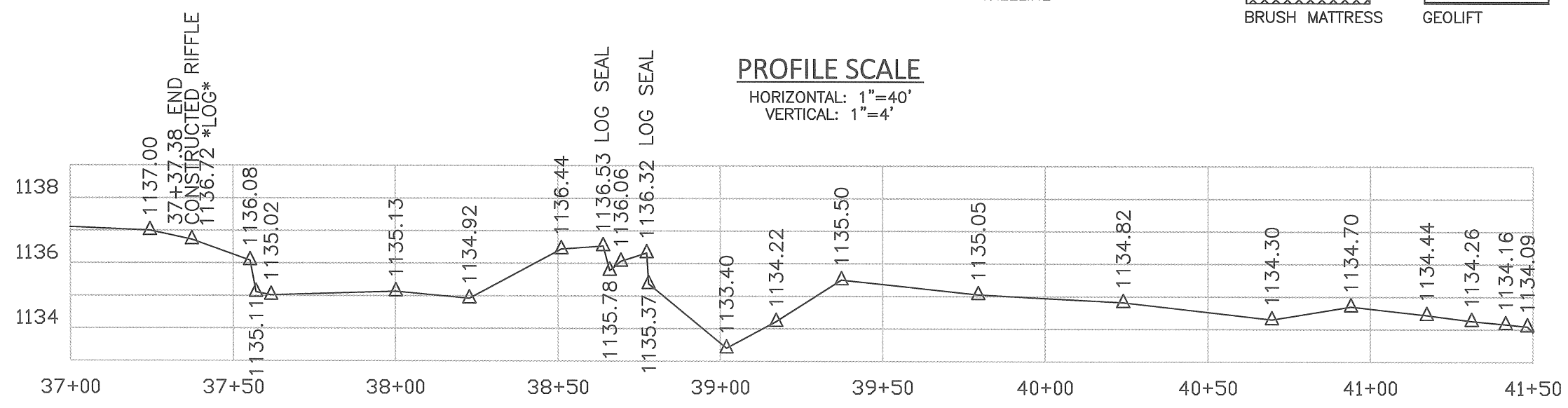
SHEET:  
**7 of 23**

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907



**LEGEND/LINETYPES**

— E — E —	CONSERVATION EASEMENT	[Pattern]	●	EASEMENT DISK
-----	AS-BUILT SURVEY LIMITS	[Pattern]	⊕	CONTROL POINT
-x-x-x-	BARBED WIRE FENCE	[Pattern]	⊕	BOULDER / ROCKS
-----	TOP OF BANK/TERRACE	[Pattern]	[Symbol]	LOG VANE
-----	TOE OF BANK/TERRACE	[Pattern]	[Symbol]	GEOLIFT
-----	THALWEG	[Pattern]		
~~~~~	TREELINE	[Pattern]		
		[Pattern]		
		[Pattern]		

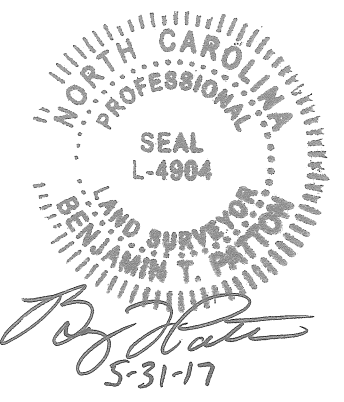


**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

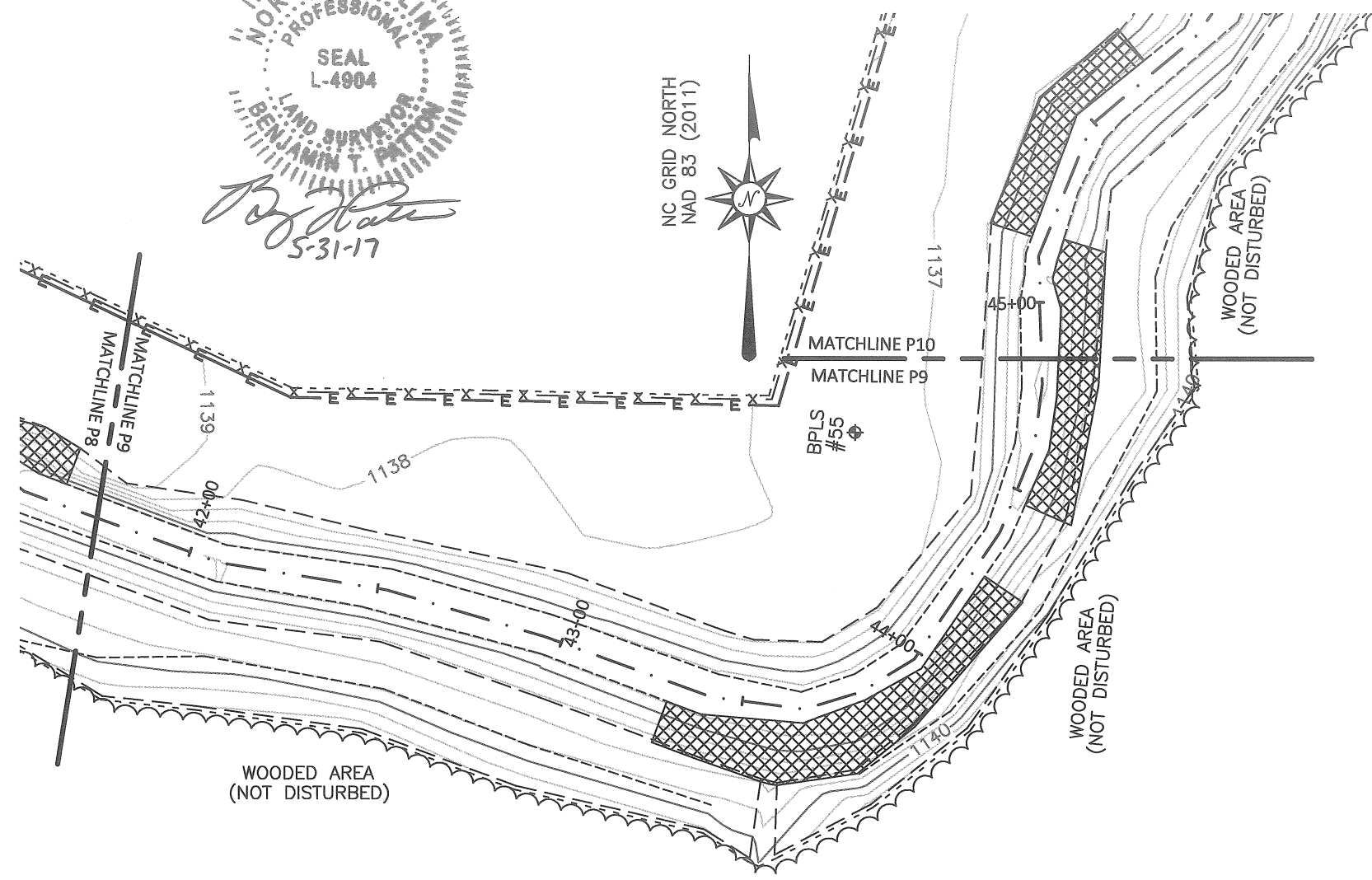
REVISIONS:  
 REACH 1 STA 37+00 TO 41+50  
**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

DATE: 5/31/17  
 FIELD: JSM, BTP  
 DRAWN: JSM, BTP  
 REVIEWED: BTP  
 BPLS PRO. # 16075  
 SCALE: 1"=40'  
 SHEET:  
**8 of 23**





NC GRID NORTH  
NAD 83 (2011)

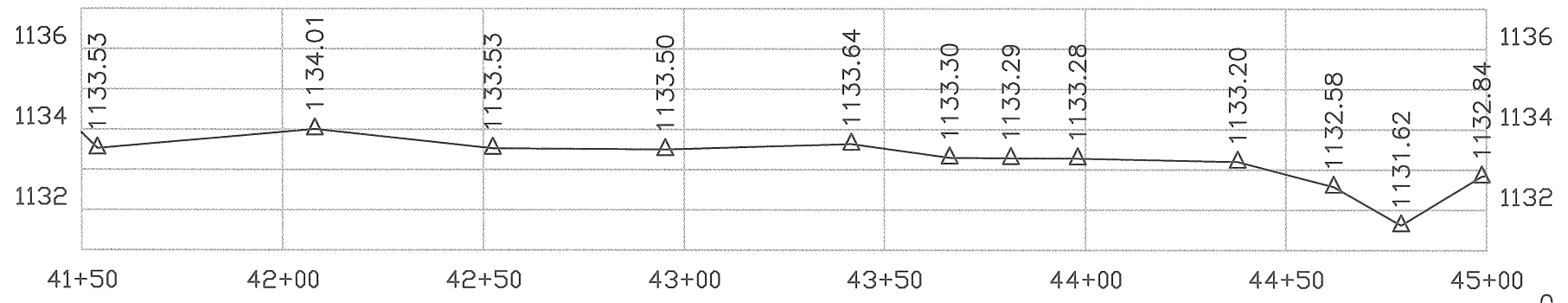


**LEGEND/LINETYPES**

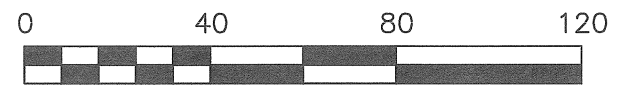
- E — E — CONSERVATION EASEMENT
  - - - - - AS-BUILT SURVEY LIMITS
  - x - x - x - BARBED WIRE FENCE
  - - - - - TOP OF BANK/TERRACE
  - - - - - TOE OF BANK/TERRACE
  - . - . - . THALWEG
  - ~~~~~ TREELINE
- 
- STONE
  - CONSTRUCTED RIFFLE
  - BRUSH MATTRESS
  - EASEMENT DISK
  - CONTROL POINT
  - BOULDER / ROCKS
  - LOG VANE
  - GEOLIFT

**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



SCALE: 1"=40'



CONTOUR INTERVAL = 1'

REVISIONS:

REACH 1 STA 41+50 TO 45+00

**SHADRICK CREEK  
RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

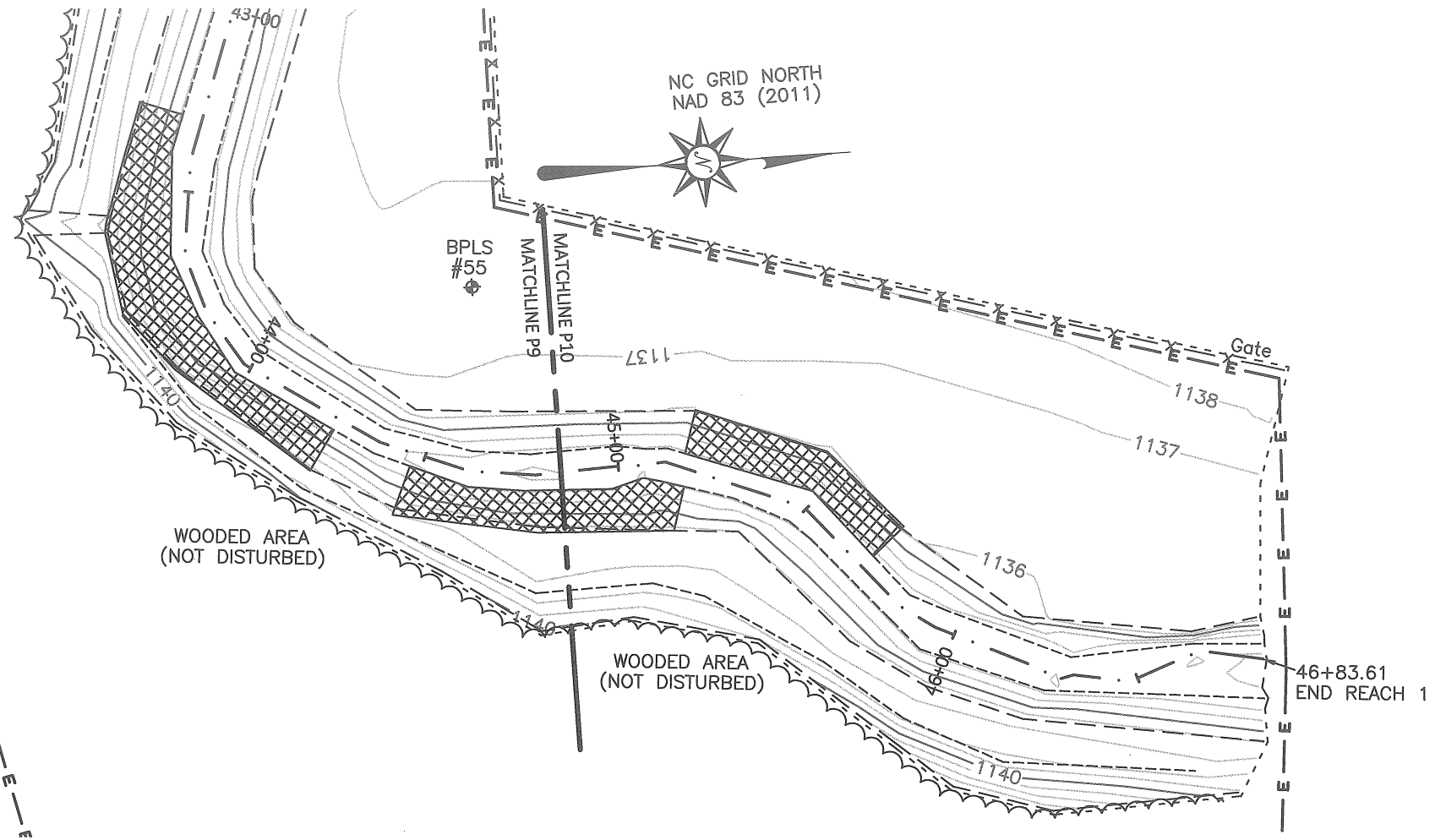
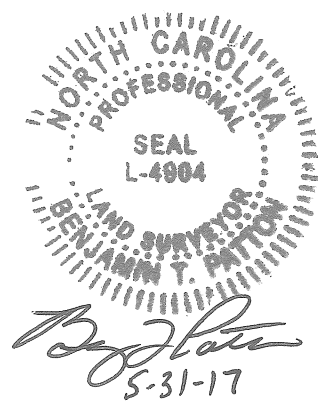
REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

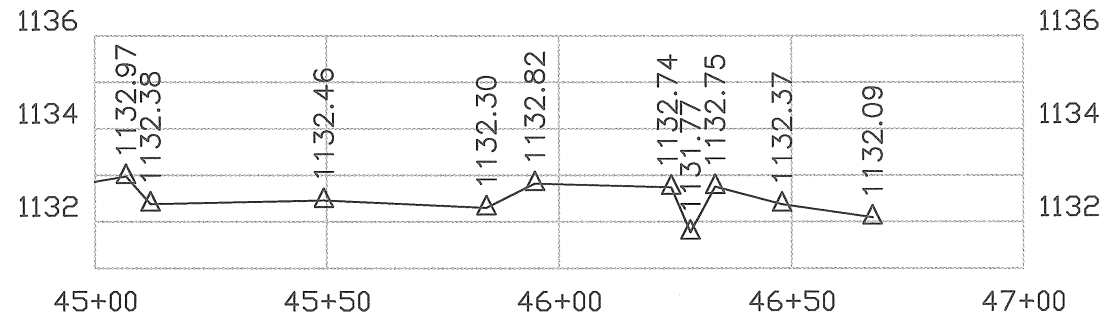
SHEET:  
**9 of 23**

**BPLS**  
BEN PATTON LAND SURVEYING, PLLC  
SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907



**LEGEND/LINETYPES**

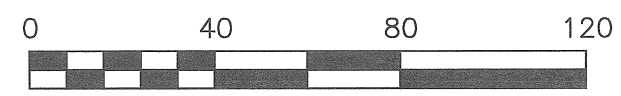
- E — E — CONSERVATION EASEMENT
- - - - - AS-BUILT SURVEY LIMITS
- x - x - x - BARBED WIRE FENCE
- - - - - TOP OF BANK/TERRACE
- - - - - TOE OF BANK/TERRACE
- . - . - THALWEG
- ~~~~~ TREELINE
- STONE
- LOG VANE
- CONSTRUCTED RIFFLE
- BRUSH MATTRESS
- EASEMENT DISK
- CONTROL POINT
- BOULDER / ROCKS
- GEOLIFT



**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'

**SCALE: 1"=40'**



CONTOUR INTERVAL = 1'

REVISIONS:

REACH 1 45+00 TO 46+83.61

**SHADRICK CREEK RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

REVIEWED: BTP

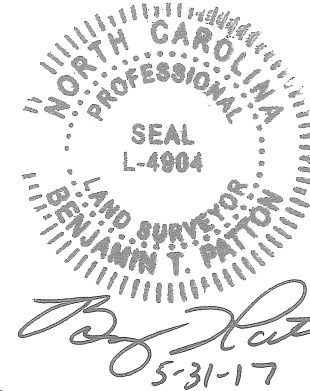
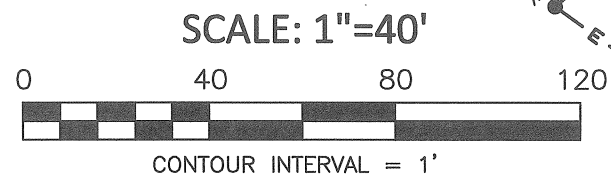
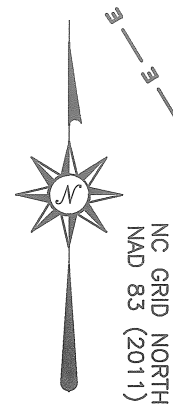
BPLS PRO. # 16075

SCALE: 1"=40'

SHEET:

**10 of 23**

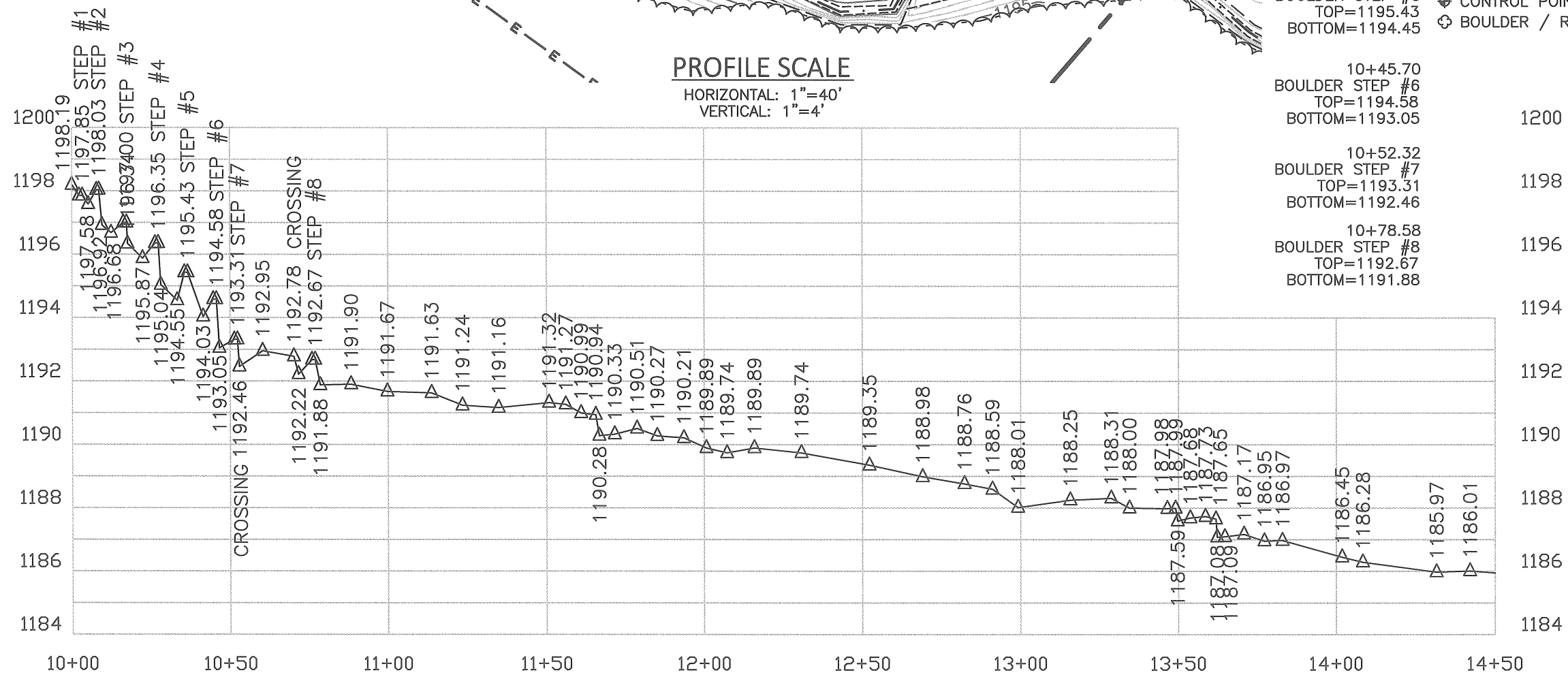
**BPLS**  
BEN PATTON LAND SURVEYING, PLLC  
SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

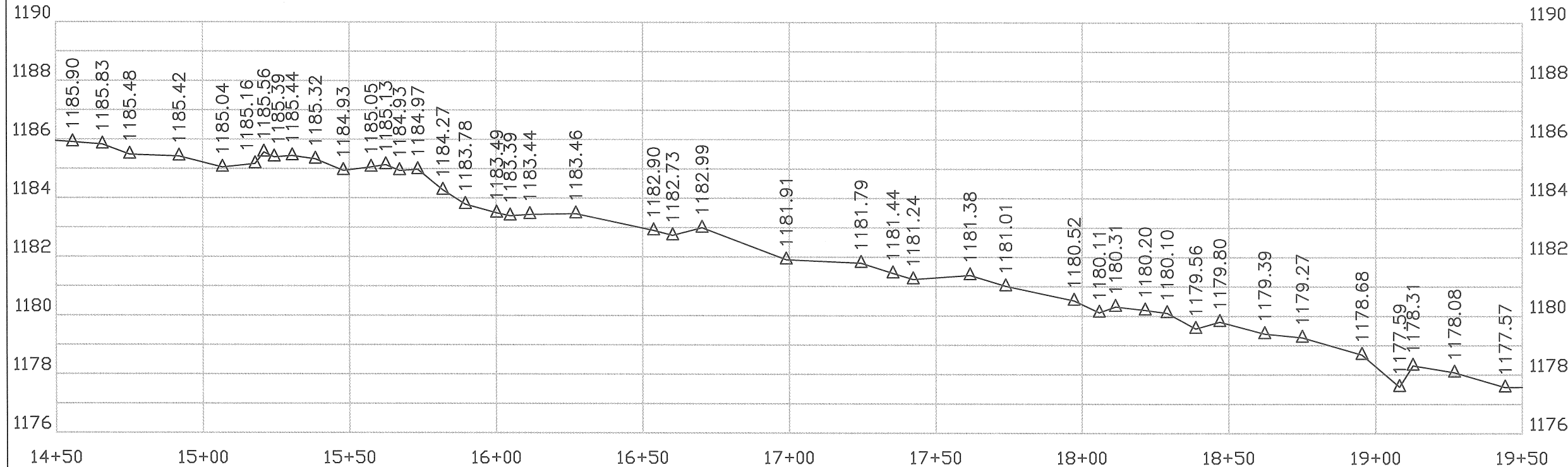
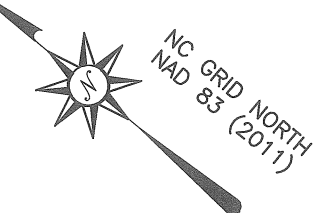
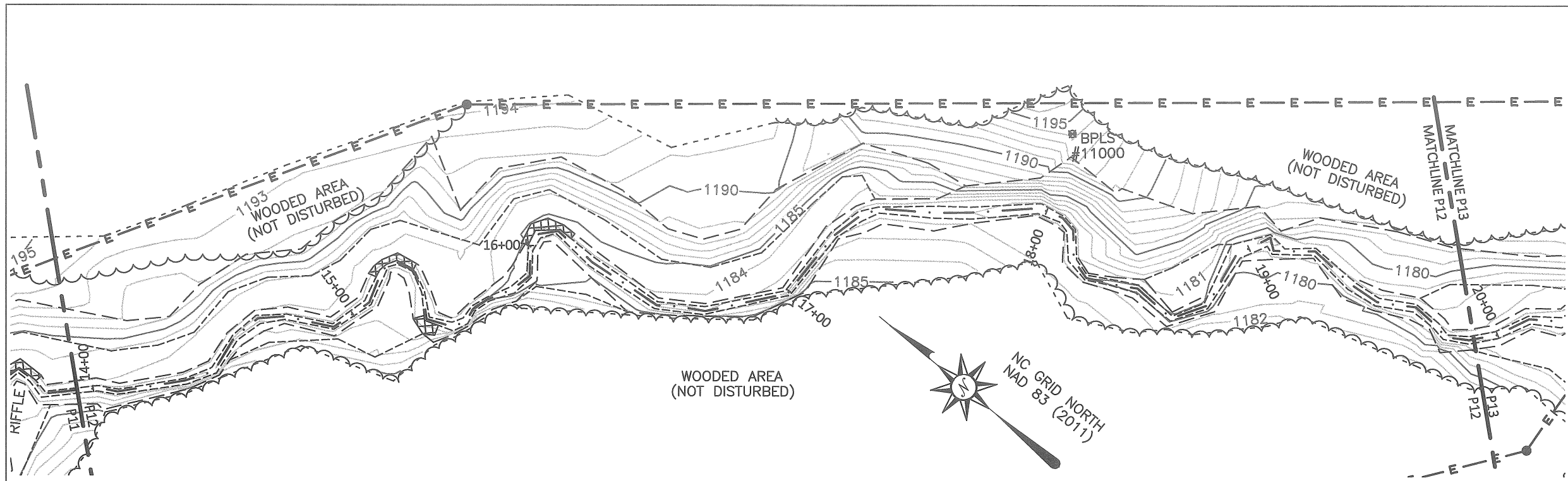


**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- AS-BUILT SURVEY LIMITS
- x-x-x- BARBED WIRE FENCE
- TOP OF BANK/TERRACE
- TOE OF BANK/TERRACE
- THALWEG
- ~~~~~ TREELINE

- 10+03.33 BOULDER STEP #1  
TOP=1197.85  
BOTTOM=1197.58
  - 10+08.54 BOULDER STEP #2  
TOP=1198.03  
BOTTOM=1196.92
  - 10+17.24 BOULDER STEP #3  
TOP=1197.00  
BOTTOM=1196.34
  - 10+27.25 BOULDER STEP #4  
TOP=1196.35  
BOTTOM=1195.04
  - 10+36.52 BOULDER STEP #5  
TOP=1195.43  
BOTTOM=1194.45
  - 10+45.70 BOULDER STEP #6  
TOP=1194.58  
BOTTOM=1193.05
  - 10+52.32 BOULDER STEP #7  
TOP=1193.31  
BOTTOM=1192.46
  - 10+78.58 BOULDER STEP #8  
TOP=1192.67  
BOTTOM=1191.88
- LOG VANE
  - GEOLIFT
  - STONE
  - CONSTRUCTED RIFFLE
  - BRUSH MATTRESS
  - EASEMENT DISK
  - CONTROL POINT
  - BOULDER / ROCKS



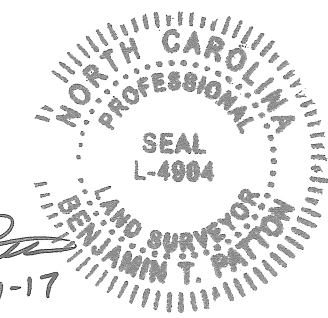


**LEGEND/LINETYPES**

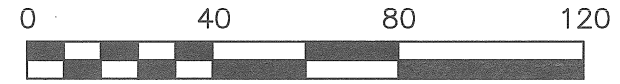
- E — E — CONSERVATION EASEMENT
- - - - - AS-BUILT SURVEY LIMITS
- x - x - x - BARBED WIRE FENCE
- - - - - TOP OF BANK/TERRACE
- - - - - TOE OF BANK/TERRACE
- · — THALWEG
- ~ ~ ~ TREELINE
- [STONE PATTERN] STONE
- [CONSTRUCTED RIFFLE PATTERN] CONSTRUCTED RIFFLE
- [BRUSH MATTRESS PATTERN] BRUSH MATTRESS
- EASEMENT DISK
- ⊕ CONTROL POINT
- ⊕ BOULDER / ROCKS
- ▬ LOG VANE
- ▬ GEOLIFT

**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



SCALE: 1"=40'



CONTOUR INTERVAL = 1'

REVISIONS:

**BPLS**  
BEN PATTON LAND SURVEYING, PLLC  
SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

UT 1 STA. 14+50 TO 19+50

**SHADRICK CREEK RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

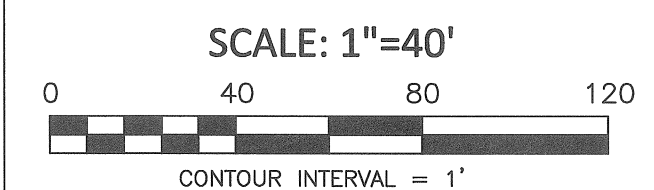
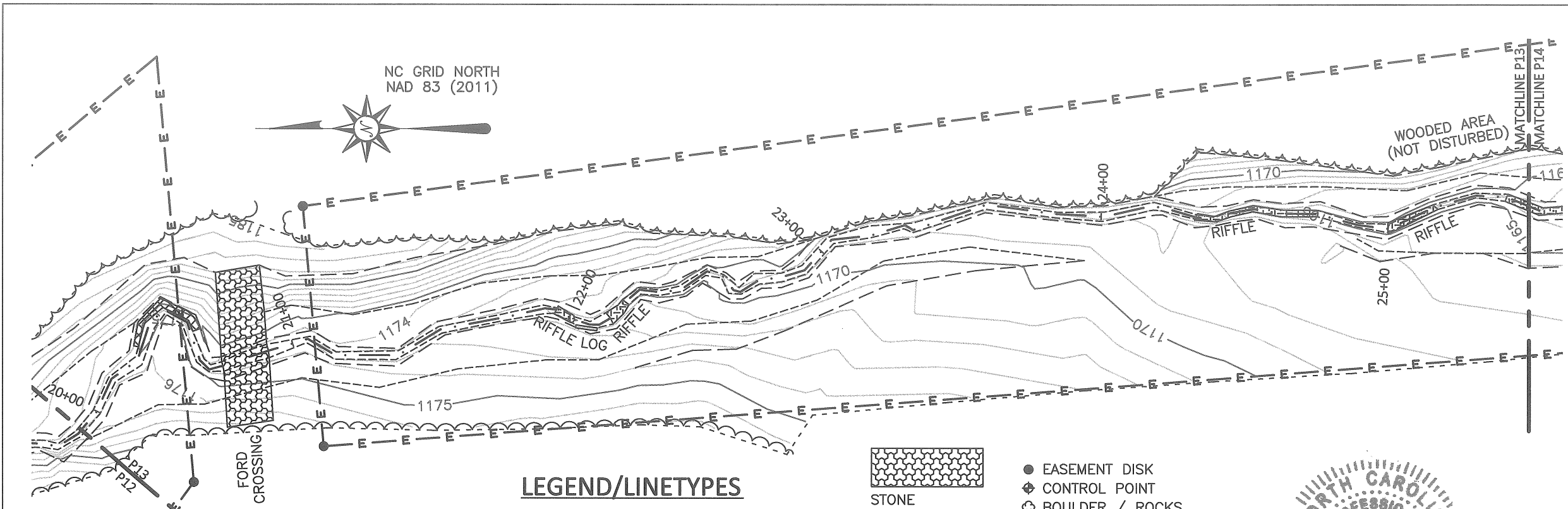
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

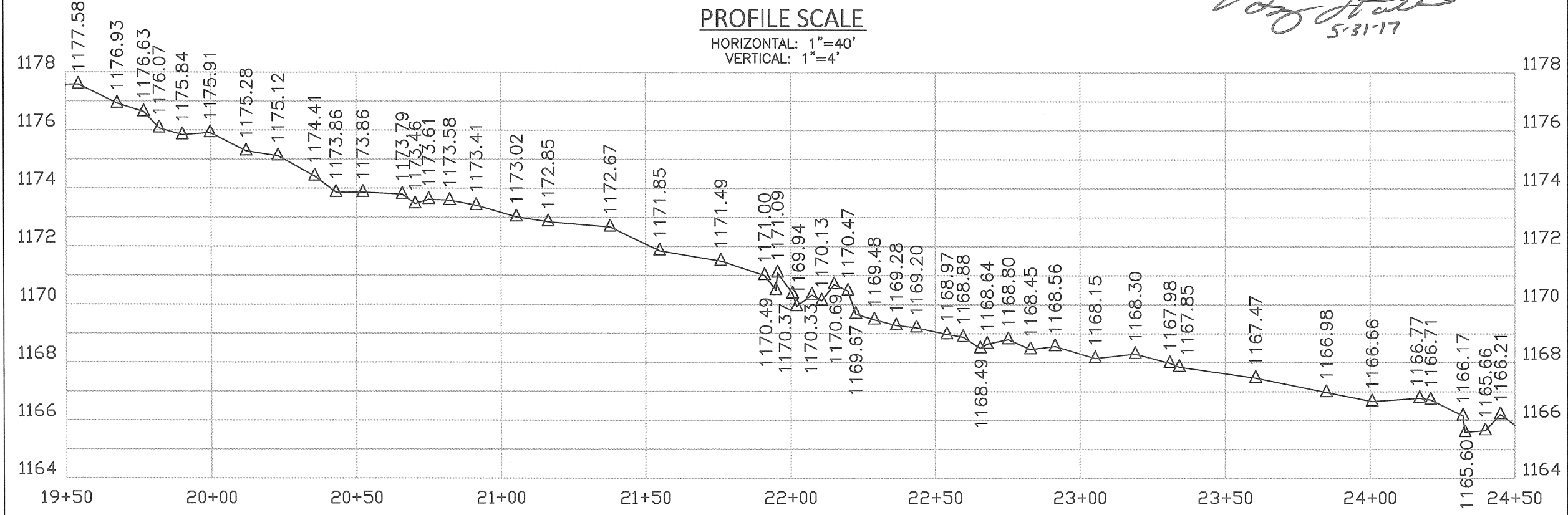
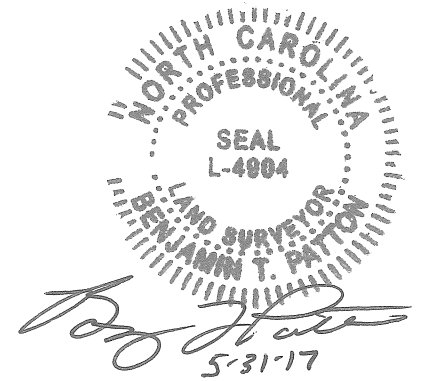
SCALE: 1"=40'

SHEET:  
**12 of 23**



**LEGEND/LINETYPES**

— E — E —	CONSERVATION EASEMENT		STONE	●	EASEMENT DISK
- - - - -	AS-BUILT SURVEY LIMITS		CONSTRUCTED RIFFLE	⊕	CONTROL POINT
- x - x - x -	BARBED WIRE FENCE		BRUSH MATTRESS	⊗	BOULDER / ROCKS
- - - - -	TOP OF BANK/TERRACE		LOG VANE		GEOLIFT
- - - - -	TOE OF BANK/TERRACE				
- . - . - .	THALWEG				
~~~~~	TREELINE				



**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

---

REVISIONS:

UT 1 STA 19+50 TO 24+50

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

---

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

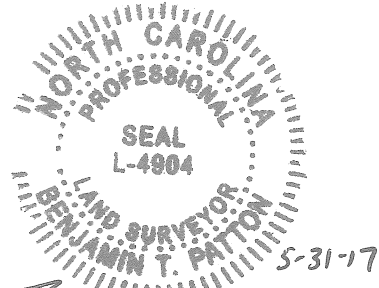
SCALE: 1"=40'

SHEET:  
**13 of 23**

SCALE: 1"=40'



CONTOUR INTERVAL = 1'

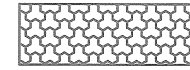


*Benjamin T. Patton*

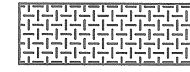
NC GRID NORTH  
NAD 83 (2011)



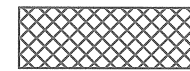
NC GRID NORTH  
NAD 83 (2011)



STONE



CONSTRUCTED RIFFLE



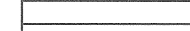
BRUSH MATTRESS

- EASEMENT DISK
- ◆ CONTROL POINT
- ⊕ BOULDER / ROCKS

LOG VANE



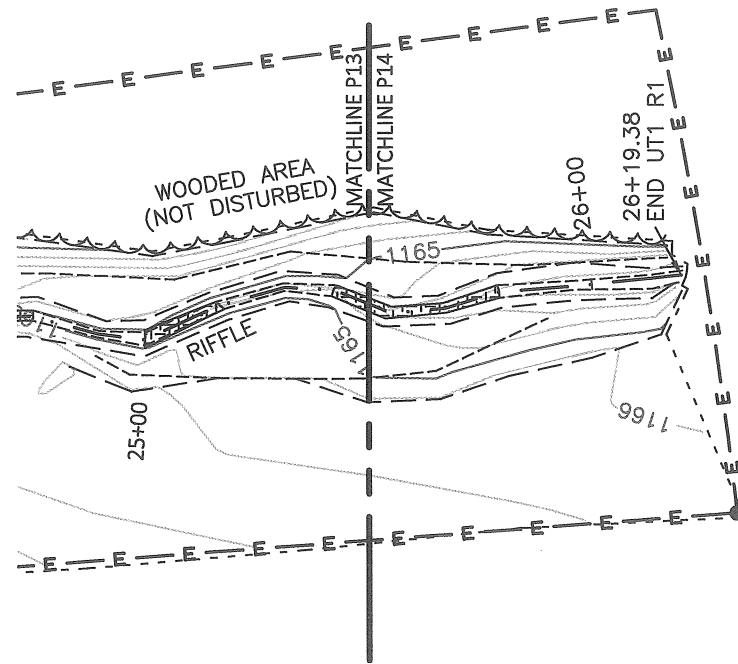
GEOLIFT



GEOLIFT

**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - - AS-BUILT SURVEY LIMITS
- x - x - x - BARBED WIRE FENCE
- - - - TOP OF BANK/TERRACE
- - - - TOE OF BANK/TERRACE
- · - · - THALWEG
- ~ ~ ~ TREELINE



29+08.45  
BOULDER STEP #9  
TOP=1152.83  
BOTTOM=1151.84

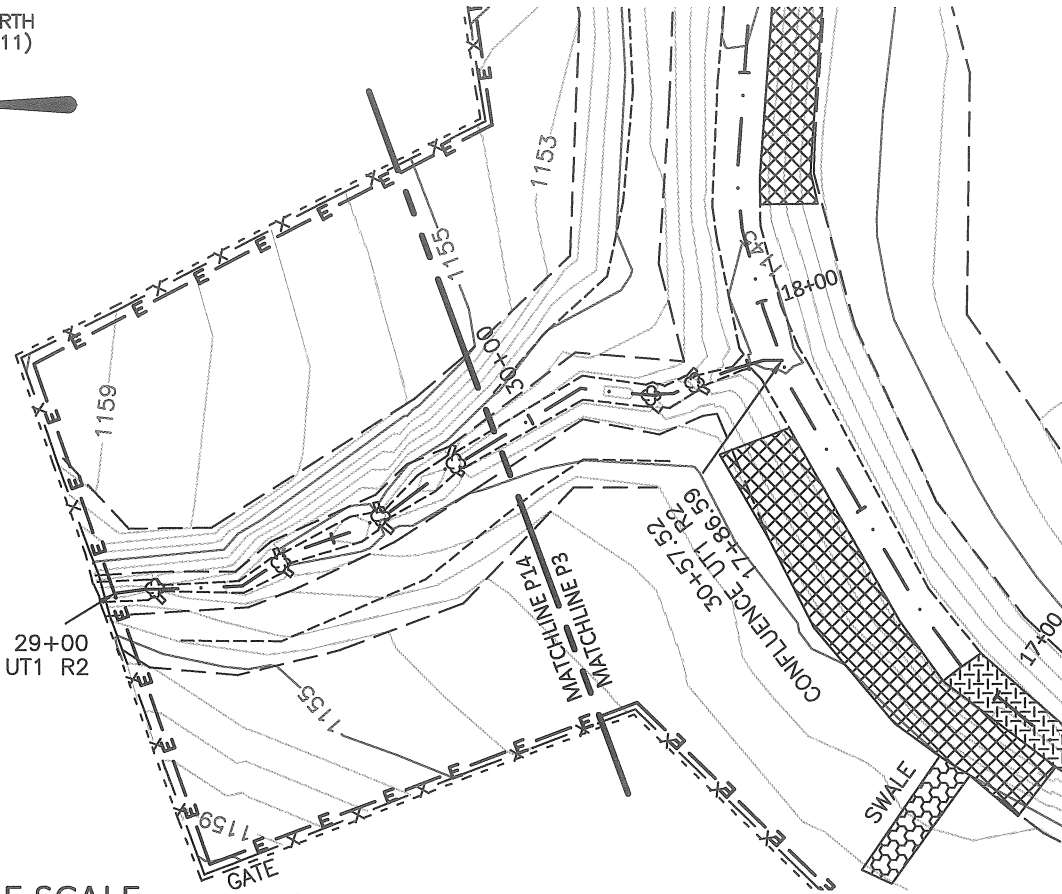
29+37.08  
BOULDER STEP #10  
TOP=1150.84  
BOTTOM=1149.59

29+61.00  
BOULDER STEP #11  
TOP=1149.99  
BOTTOM=1148.68

29+80.85  
BOULDER STEP #12  
TOP=1148.93  
BOTTOM=1147.81

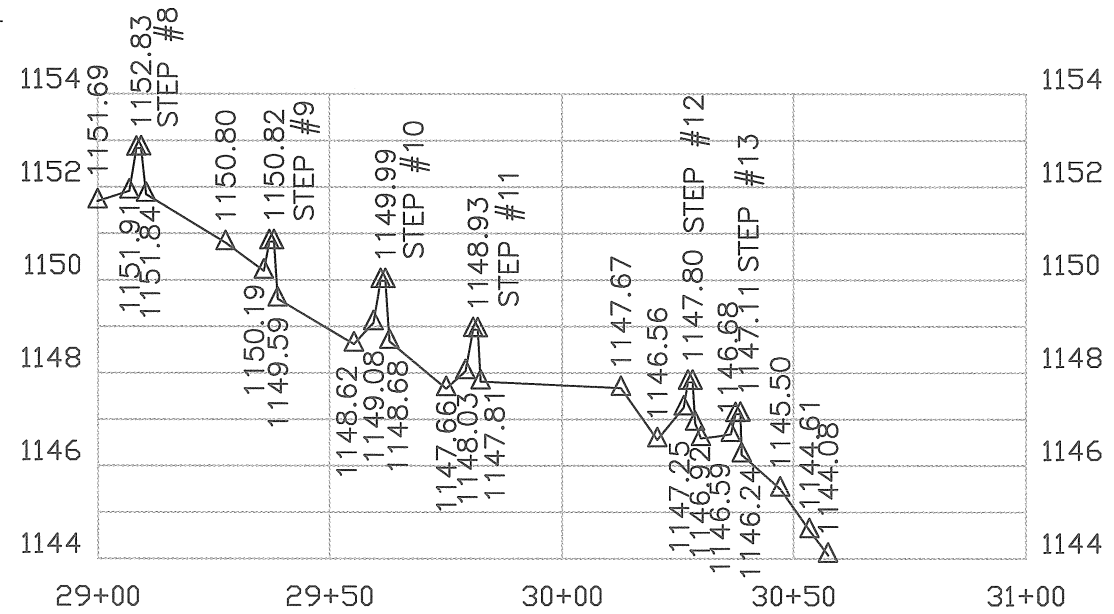
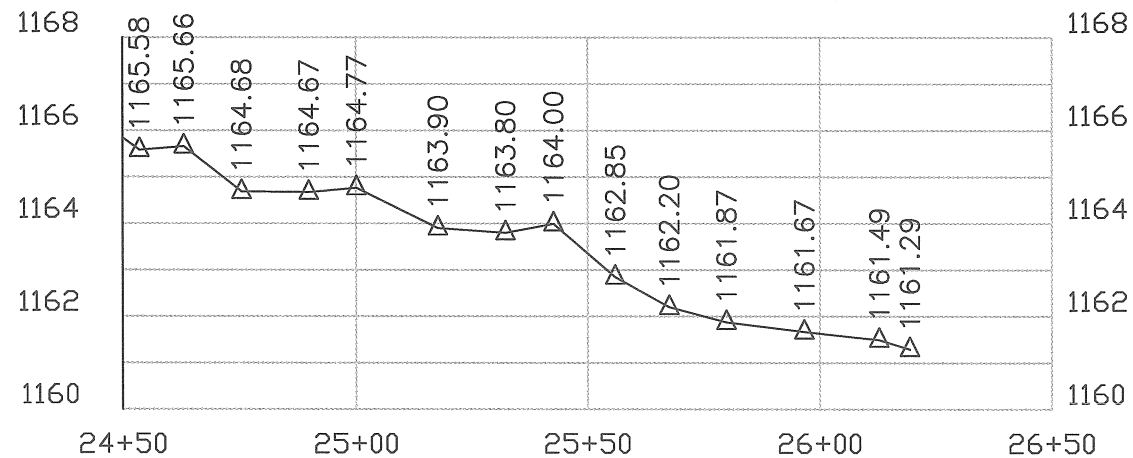
30+27.25  
BOULDER STEP #13  
TOP=1147.80  
BOTTOM=1146.92

30+37.48  
BOULDER STEP #14  
TOP=1147.12  
BOTTOM=1146.24



**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



REVISIONS:

UT 1 STA. 24+50 TO 26+19.38  
UT 1 STA. 29+00 TO 30+57.62

**SHADRICK CREEK  
RESTORATION PROJECT**  
DMS PROJECT 92916  
MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

REVIEWED: BTP

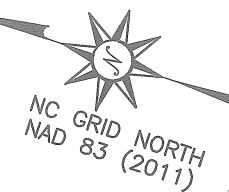
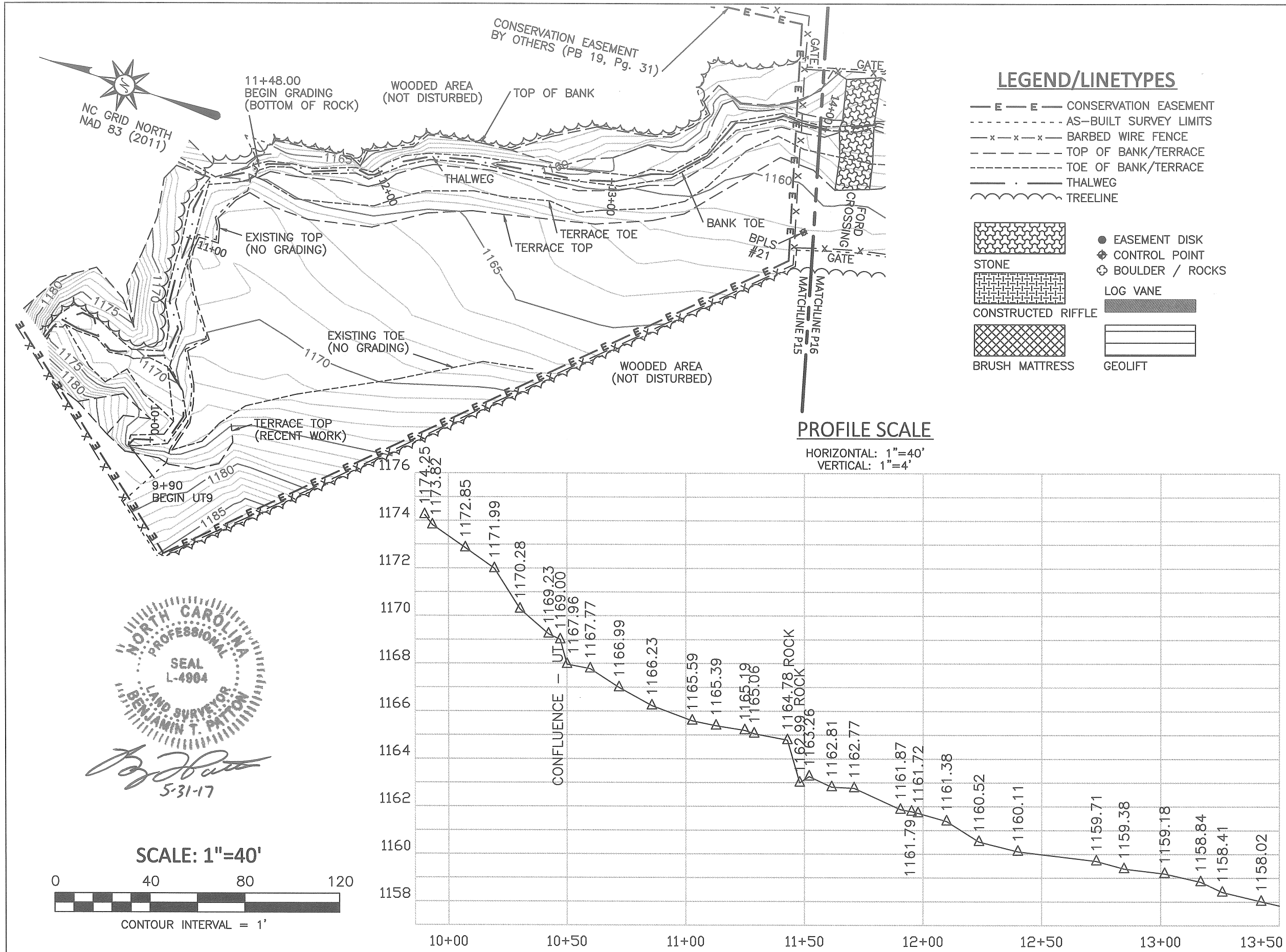
BPLS PRO. # 16075

SCALE: 1"=40'

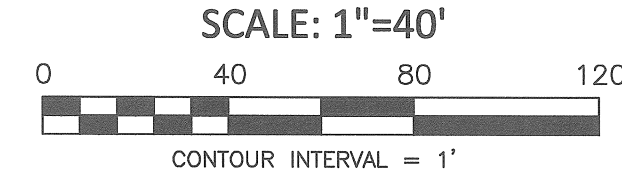
SHEET:  
**14 of 23**

**BPLS**  
BEN PATTON LAND SURVEYING, PLLC  
SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

MATCHLINE P14



*Benjamin T. Patton*  
5-31-17



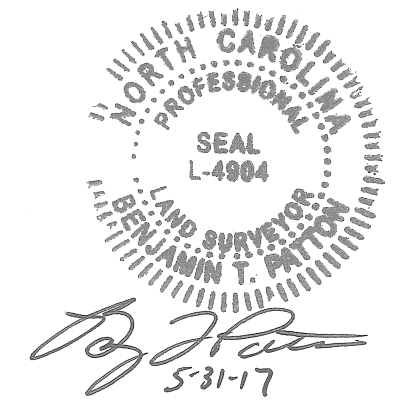
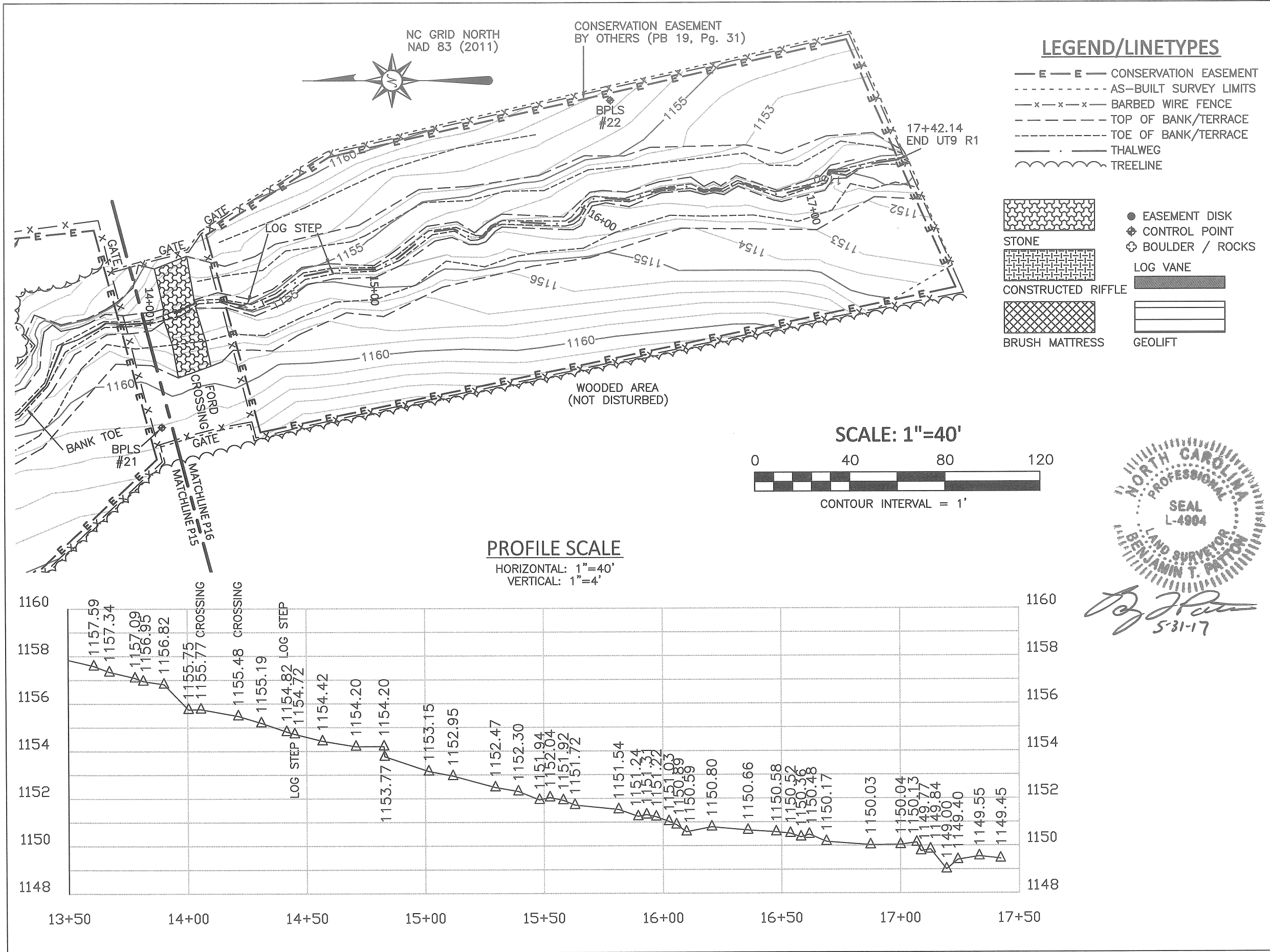
REVISIONS:

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

UT 9 STA. 9+90 TO 13+50

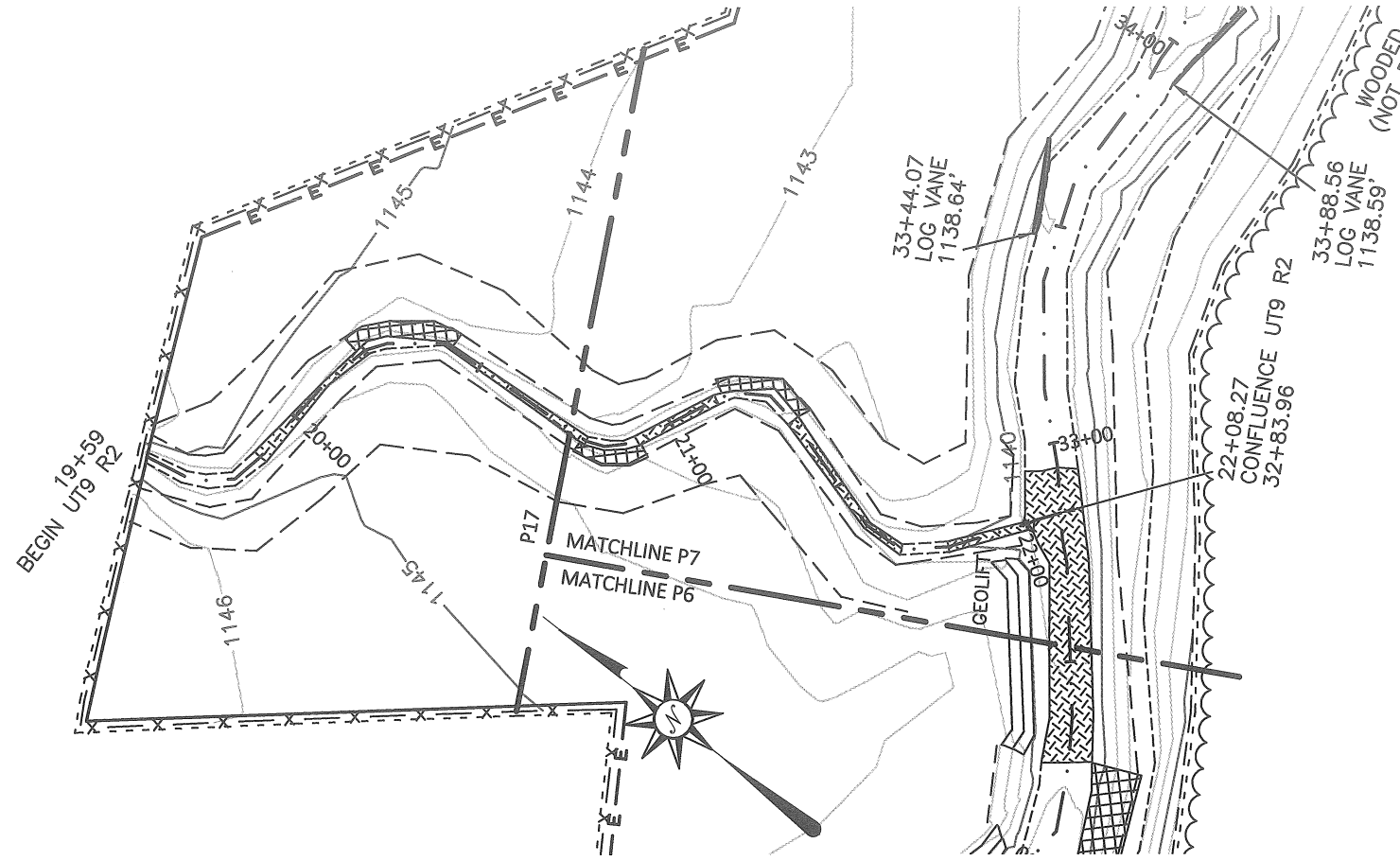
**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

DATE: 5/31/17  
 FIELD: JSM, BTP  
 DRAWN: JSM, BTP  
 REVIEWED: BTP  
 BPLS PRO. # 16075  
 SCALE: 1"=40'  
 SHEET:  
**15 of 23**



REVISIONS:	<b>BPLS</b>
	BEN PATTON LAND SURVEYING, PLLC SERVING NC, SC, & TN PHONE: (828) 768-1625 931 N. MAIN ST. SUITE 5 MARION, NC 28752 BEN@BPSURVEYING.COM FIRM NO: P-0907
UT 9 STA 13+50 TO 17+50	<b>SHADRICK CREEK RESTORATION PROJECT</b> DMS PROJECT 92916 MCDOWELL COUNTY, NC
DATE: 5/31/17	
FIELD: JSM, BTP	
DRAWN: JSM, BTP	
REVIEWED: BTP	
BPLS PRO. # 16075	
SCALE: 1"=40'	
SHEET:	<b>16 of 23</b>

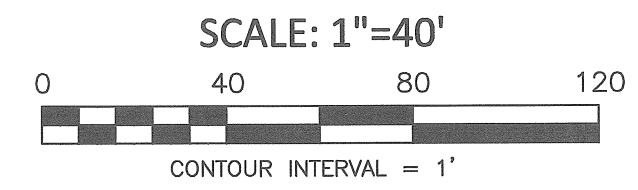
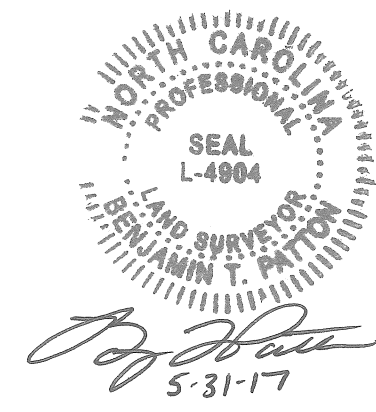
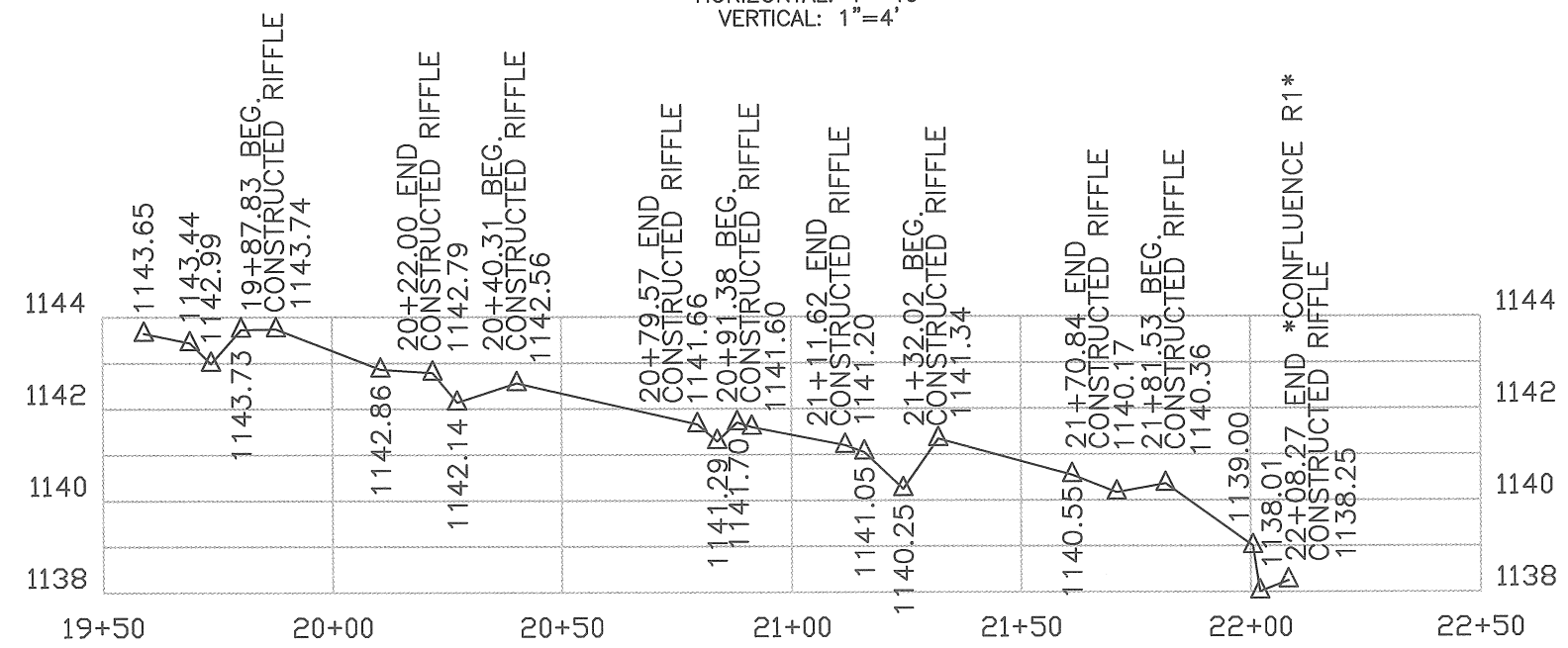




**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
  - - - - AS-BUILT SURVEY LIMITS
  - x - x - x - BARBED WIRE FENCE
  - - - - TOP OF BANK/TERRACE
  - - - - TOE OF BANK/TERRACE
  - · — · — THALWEG
  - ~~~~~ TREELINE
- 
- STONE
  - CONSTRUCTED RIFFLE
  - BRUSH MATTRESS
  - EASEMENT DISK
  - CONTROL POINT
  - BOULDER / ROCKS
  - LOG VANE
  - GEOLIFT

**PROFILE SCALE**  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'



REVISIONS:

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

UT 9 STA 19+59 TO 22+08.27

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 MCDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

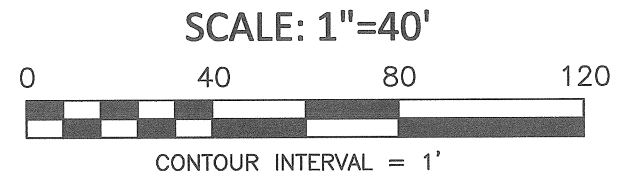
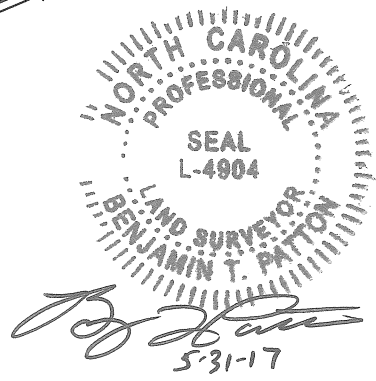
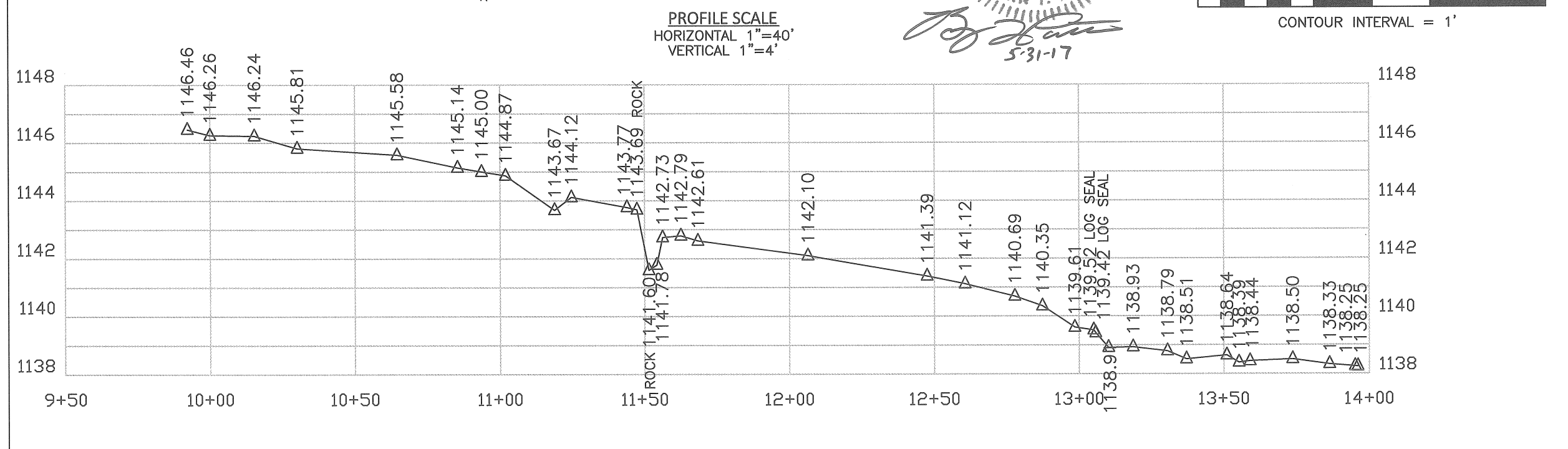
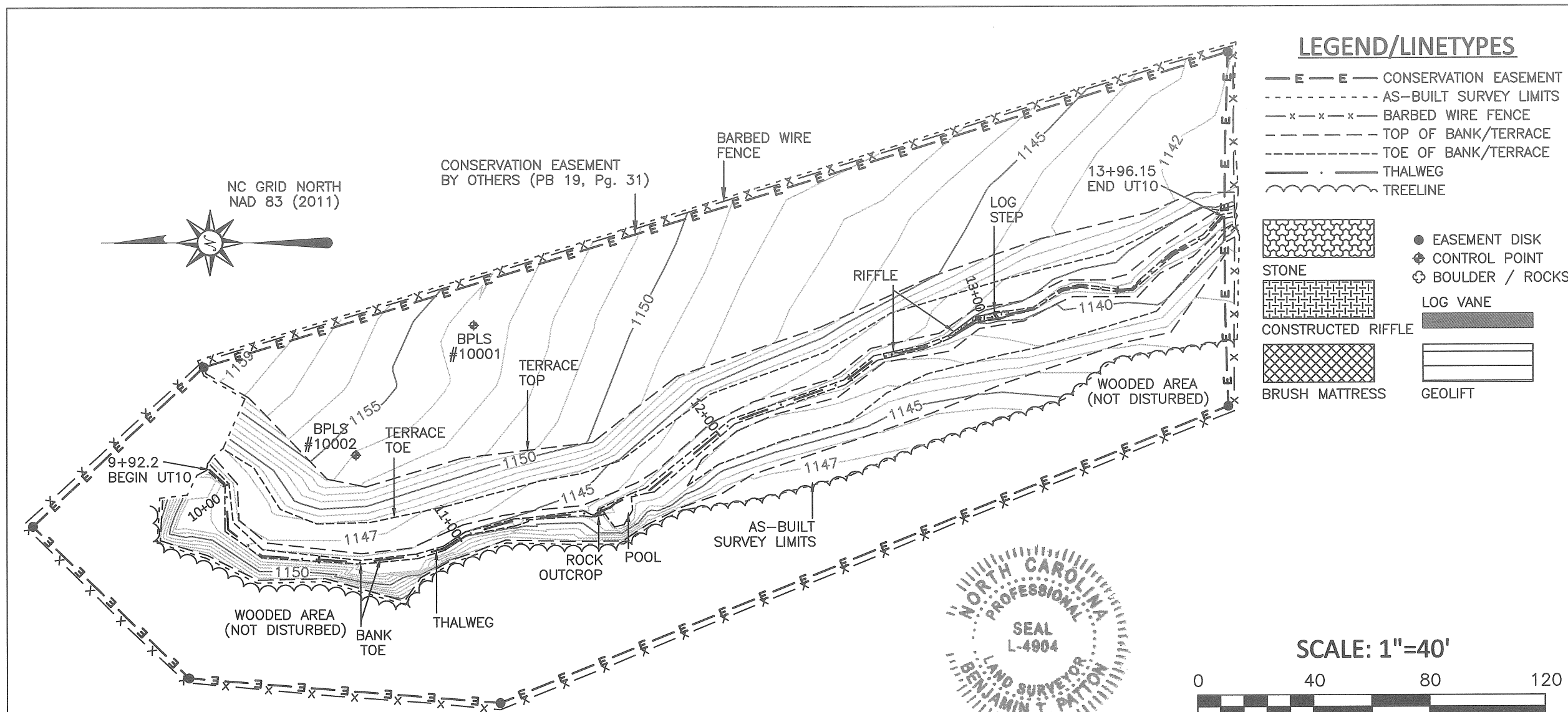
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

SHEET:  
**17 of 23**



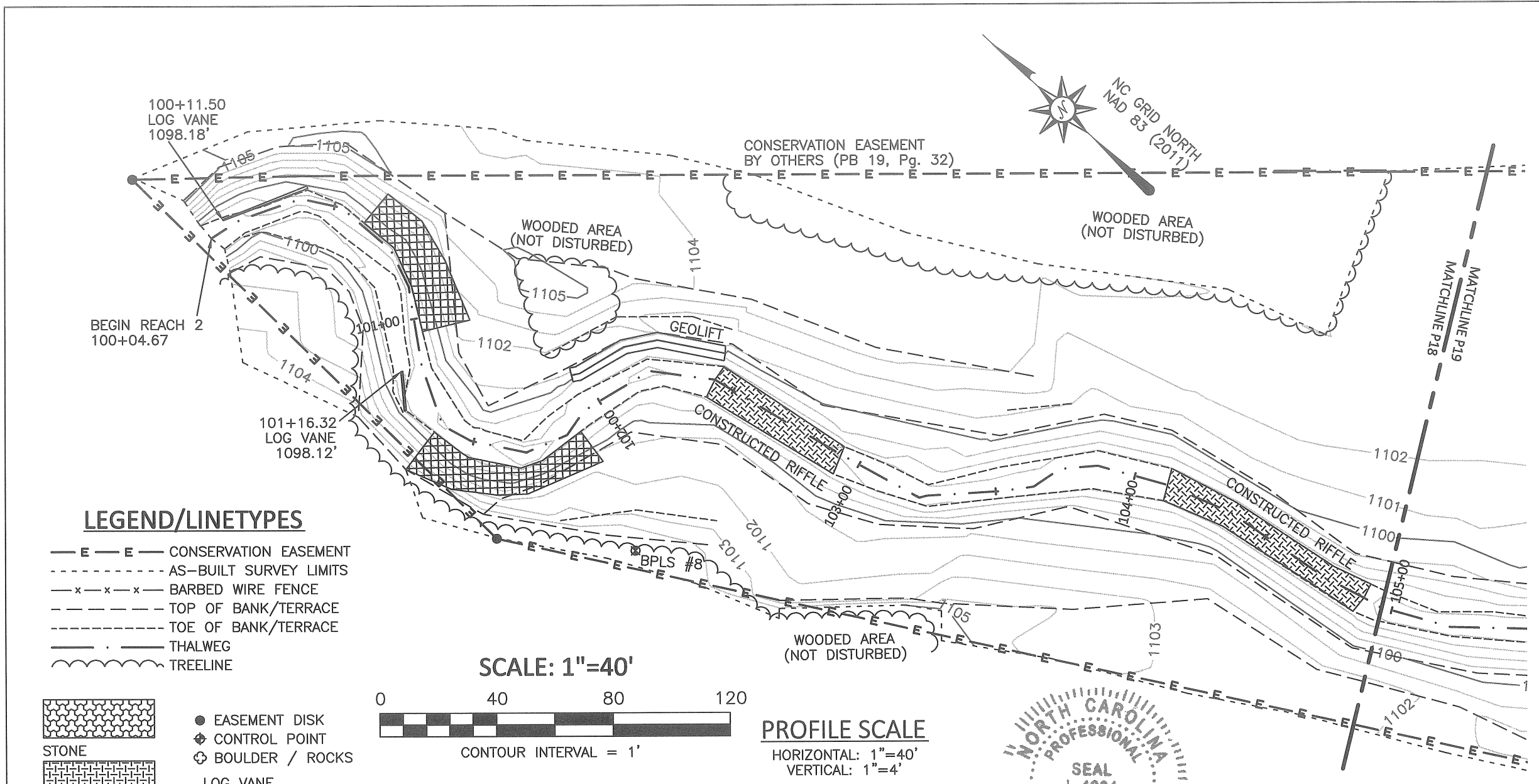
**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

REVISIONS:

UT 10 STA. 9+92.20 TO 13+96.15

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

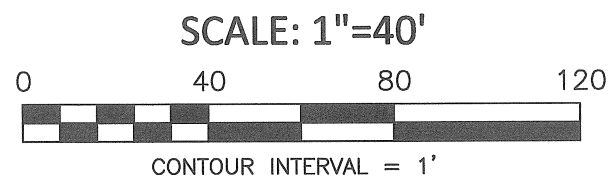
DATE: 5/31/17  
 FIELD: JSM, BTP  
 DRAWN: JSM, BTP  
 REVIEWED: BTP  
 BPLS PRO. # 16075  
 SCALE: 1"=40'  
 SHEET: 18 of 23



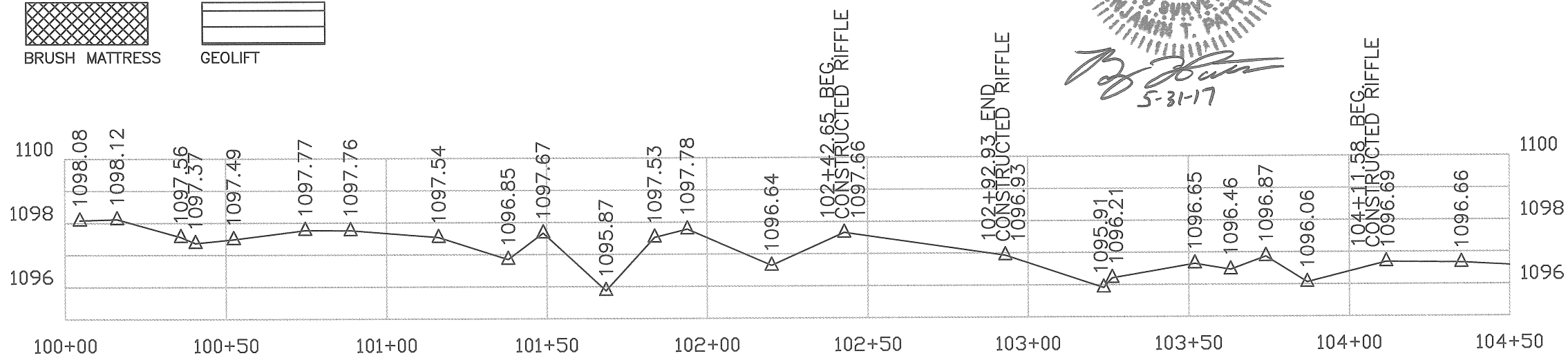
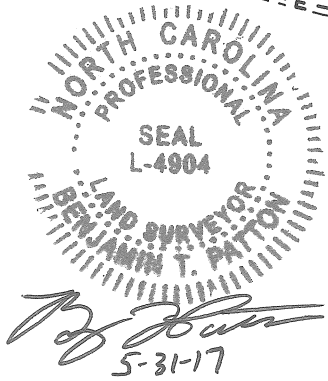
**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - - AS-BUILT SURVEY LIMITS
- x - x - BARBED WIRE FENCE
- - - - TOP OF BANK/TERRACE
- - - - TOE OF BANK/TERRACE
- · — THALWEG
- ~~~~~ TREELINE

- STONE
- CONSTRUCTED RIFFLE
- BRUSH MATTRESS
- EASEMENT DISK
- CONTROL POINT
- BOULDER / ROCKS
- LOG VANE
- GEOLIFT



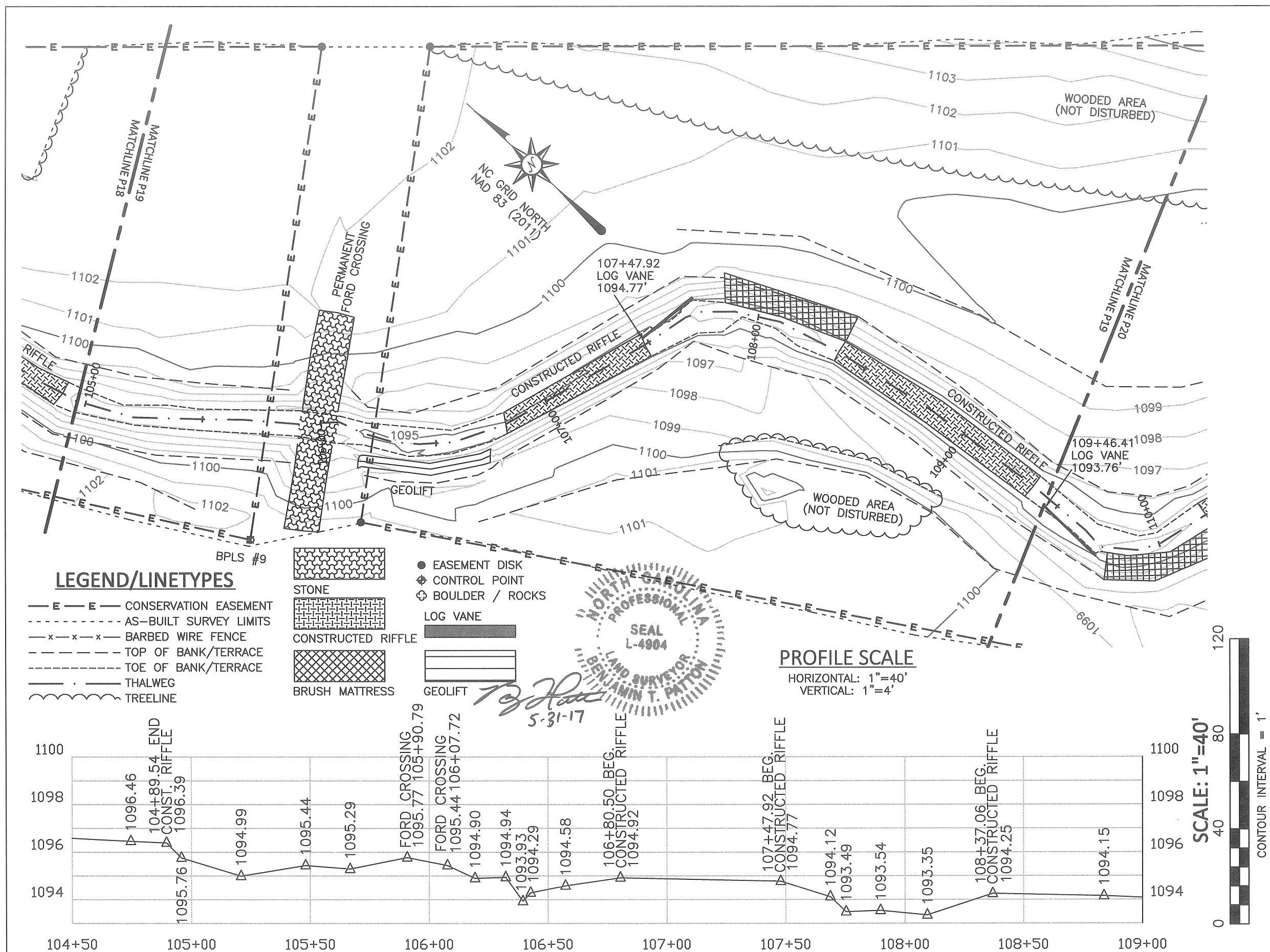
**PROFILE SCALE**  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'



**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

REVISIONS:  
 REACH 2 STA 100+04.67 TO 104+50  
**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 MCDOWELL COUNTY, NC

DATE: 5/31/17  
 FIELD: JSM, BTP  
 DRAWN: JSM, BTP  
 REVIEWED: BTP  
 BPLS PRO. # 16075  
 SCALE: 1"=40'  
 SHEET:  
**19 of 23**



REVISIONS:

**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

REACH 2 STA. 104+50 TO 109+00

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

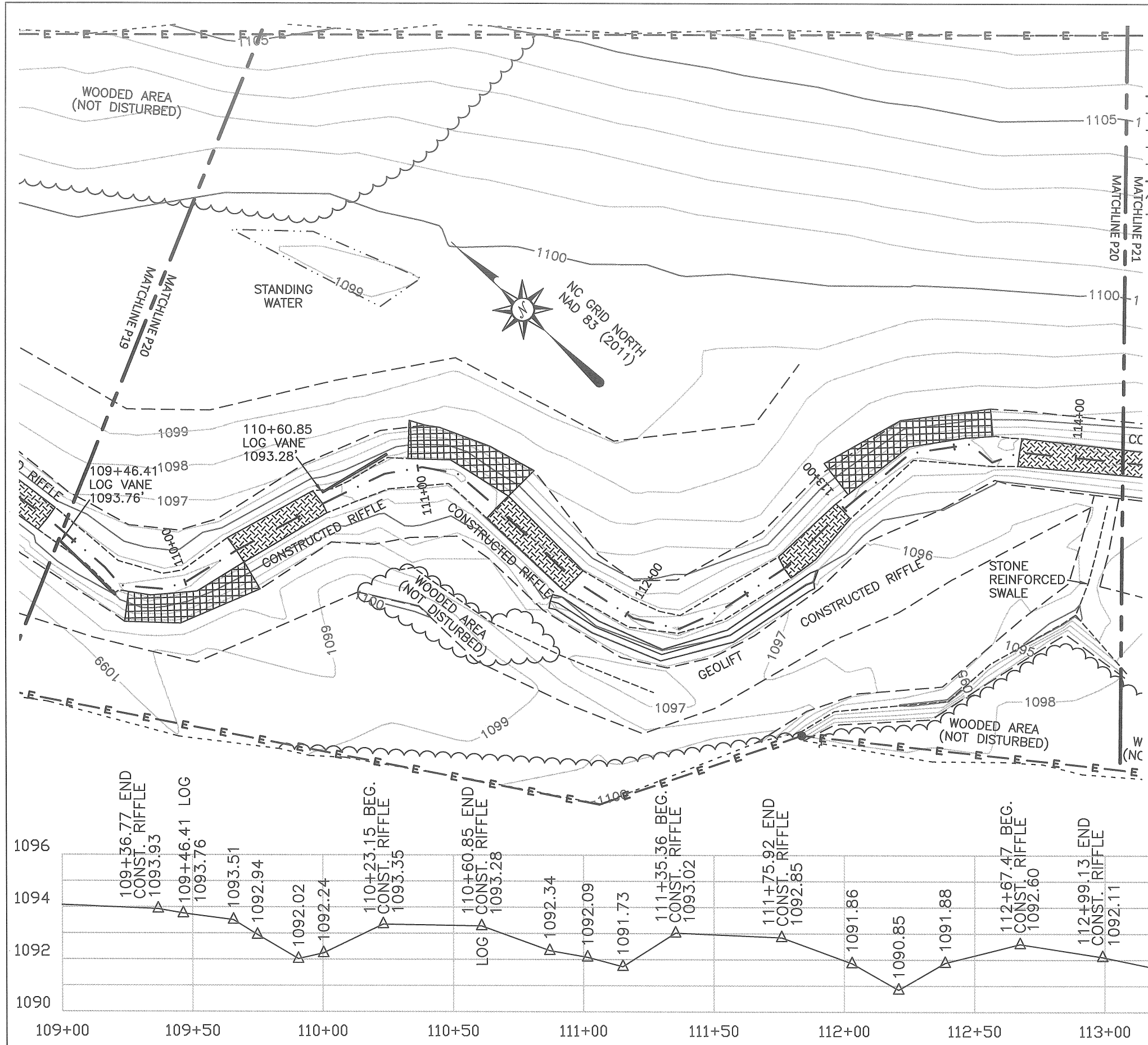
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

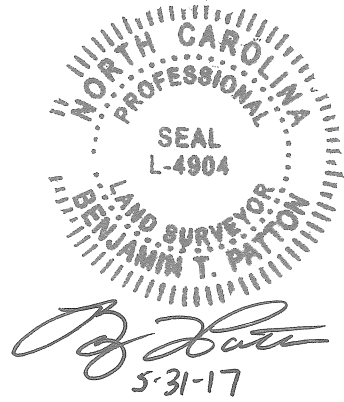
SCALE: 1"=40'

SHEET:  
**20 of 23**



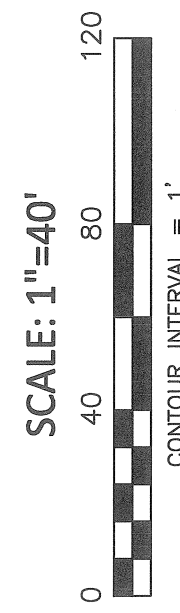
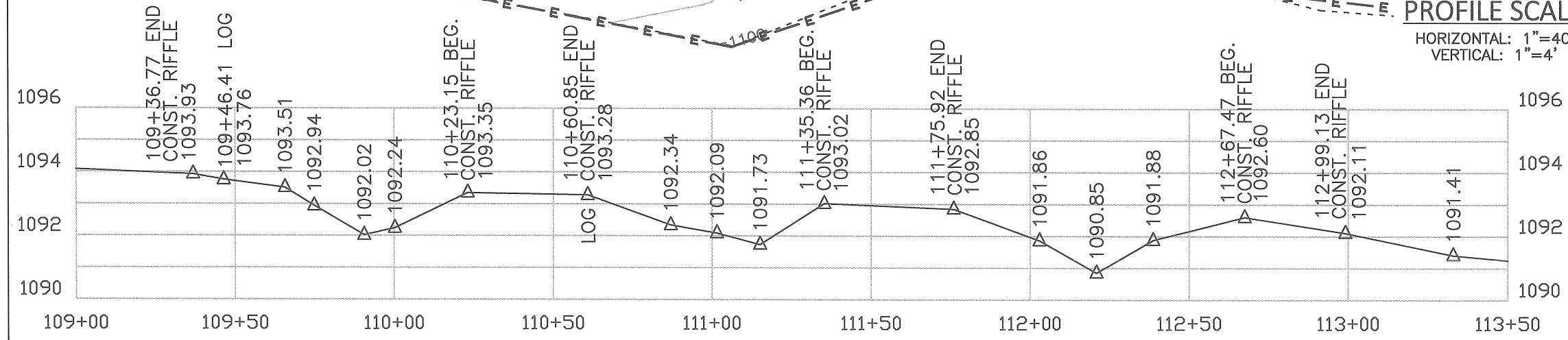
**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - - AS-BUILT SURVEY LIMITS
- x - x - x - BARBED WIRE FENCE
- - - - TOP OF BANK/TERRACE
- - - - TOE OF BANK/TERRACE
- - - - THALWEG
- ~~~~~ TREELINE
- - - - EDGE OF WATER
- EASEMENT DISK
- ⊕ CONTROL POINT
- ⊕ BOULDER/ROCKS
- STONE
- CONSTRUCTED RIFFLE
- BRUSH MATTRESS
- LOG VANE
- GEOLIFT



**PROFILE SCALE**

HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



**BPLS**

**BEN PATTON LAND SURVEYING, PLLC**

SERVING NC, SC, & TN  
PHONE: (828) 768-1625  
931 N. MAIN ST. SUITE 5 MARION, NC 28752  
BEN@BPSURVEYING.COM FIRM NO: P-0907

---

REVISIONS:

REACH 2 109+00 TO 113+50

**SHADRICK CREEK RESTORATION PROJECT**

DMS PROJECT 92916  
MCDOWELL COUNTY, NC

---

DATE: 5/31/17

FIELD: JSM, BTP

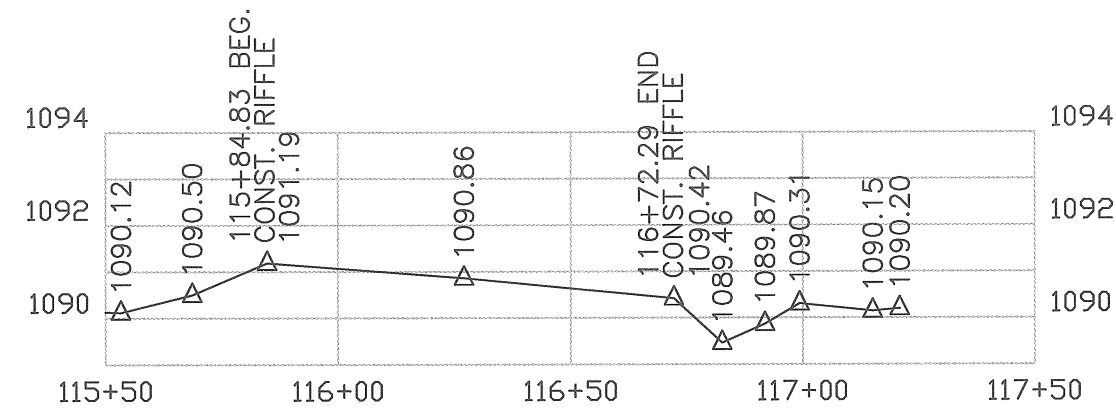
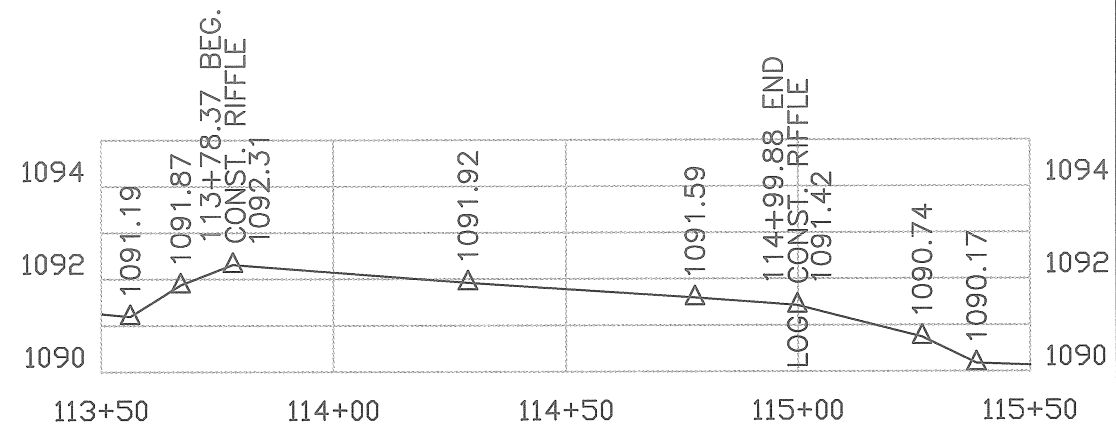
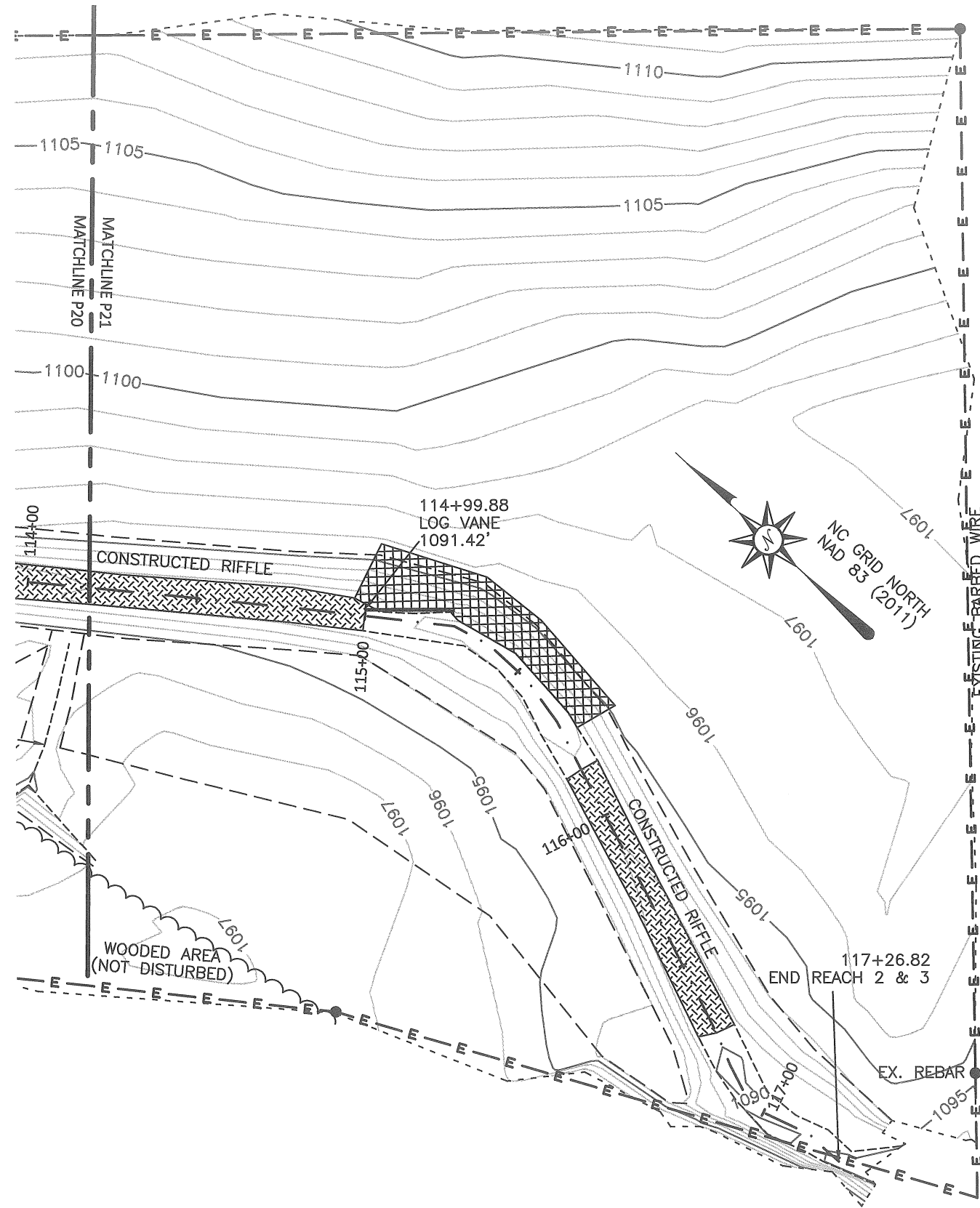
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=40'

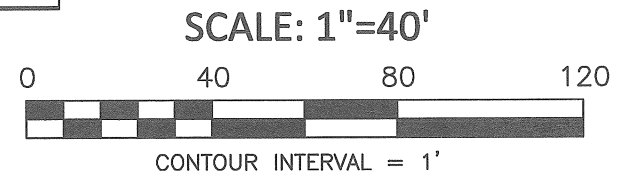
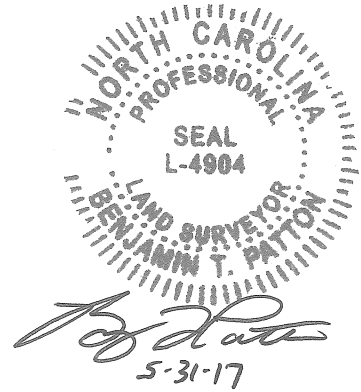
SHEET:  
**21 of 23**



**PROFILE SCALE**  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- - - AS-BUILT SURVEY LIMITS
- x - x - BARBED WIRE FENCE
- - - TOP OF BANK/TERRACE
- - - TOE OF BANK/TERRACE
- - - THALWEG
- ~ TREELINE
- EASEMENT DISK
- ⊕ CONTROL POINT
- ⊕ BOULDER / ROCKS
- STONE
- CONSTRUCTED RIFFLE
- BRUSH MATTRESS
- LOG VANE
- GEOLIFT



**BPLS**  
 BEN PATTON LAND SURVEYING, PLLC  
 SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

---

REVISIONS:

REACH 2 STA 113+50 TO 117+26.82

**SHADRICK CREEK RESTORATION PROJECT**  
 DMS PROJECT 92916  
 McDOWELL COUNTY, NC

---

DATE: 5/31/17

FIELD: JSM, BTP

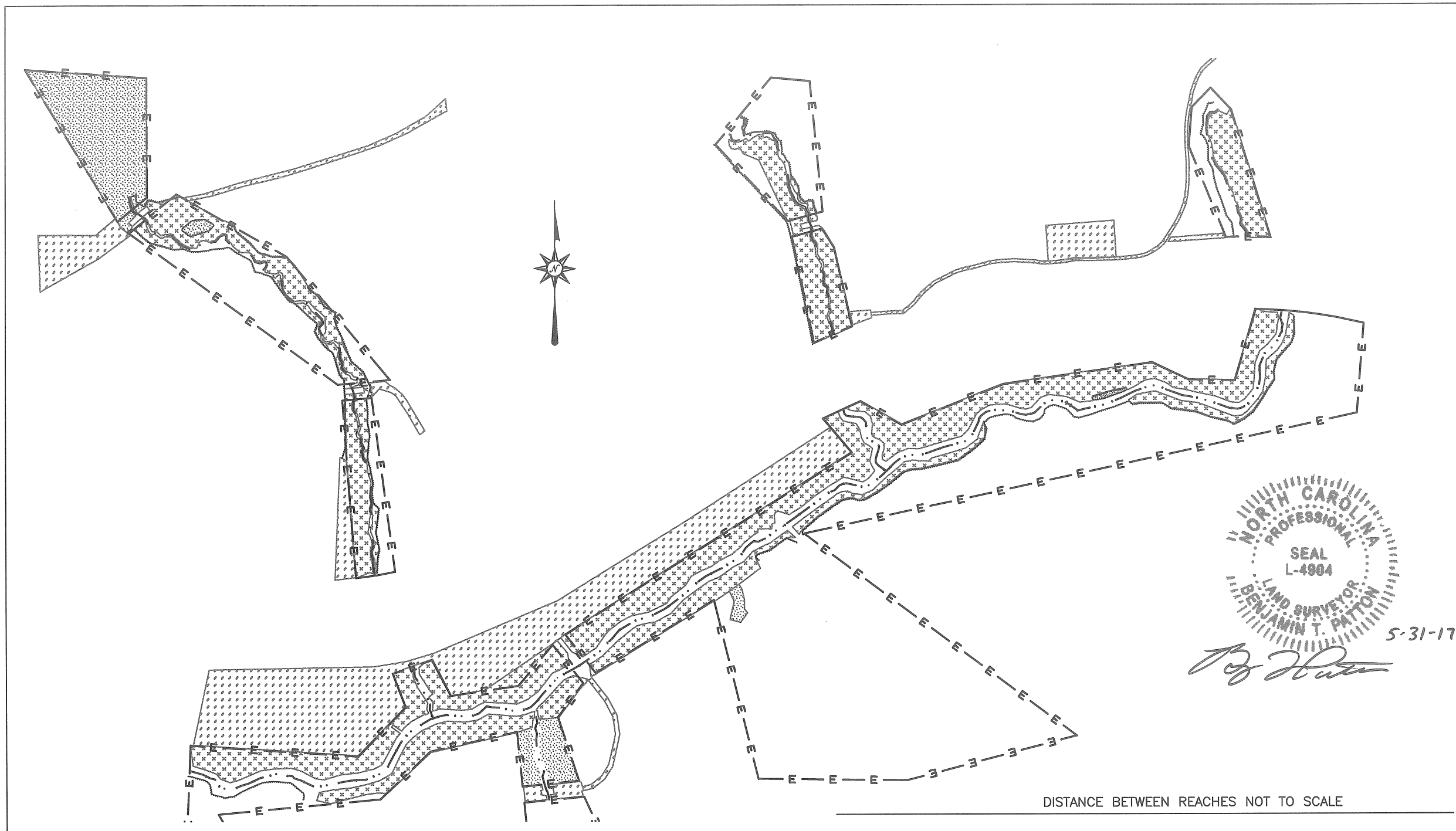
DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

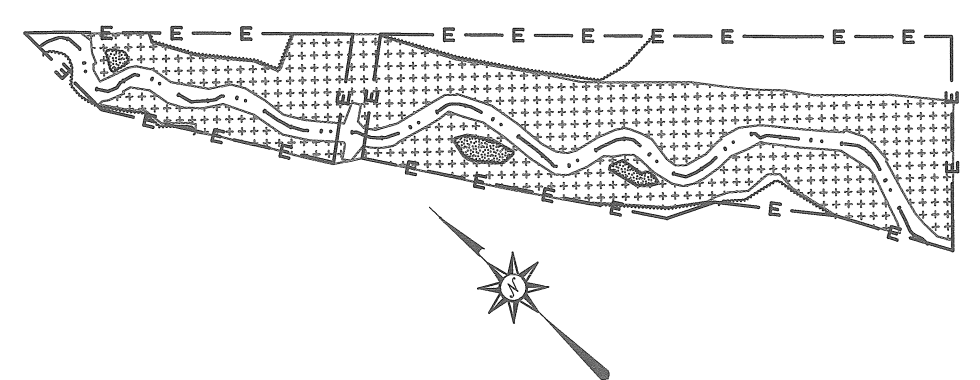
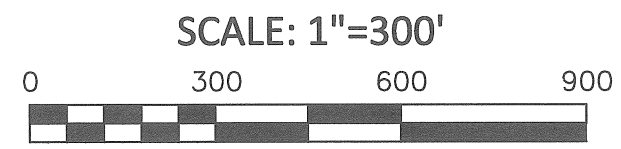
SCALE: 1"=40'

SHEET:  
**22 of 23**



**LEGEND/LINETYPES**

- E — E — CONSERVATION EASEMENT
- · — THALWEG
- ~~~~ TREELINE
- [Stippled Box] STABILIZATION SEED
- [Cross-hatched Box] BARE ROOT TREES
- [Grid Box] RIPARIAN SEED & BARE ROOT TREES



REVISIONS:

**BPLS**

BEN PATTON LAND SURVEYING, PLLC

SERVING NC, SC, & TN  
 PHONE: (828) 768-1625  
 931 N. MAIN ST. SUITE 5 MARION, NC 28752  
 BEN@BPSURVEYING.COM FIRM NO: P-0907

FLOODPLAIN PLANTING

**SHADRICK CREEK RESTORATION PROJECT**

DMS PROJECT 92916  
 McDOWELL COUNTY, NC

DATE: 5/31/17

FIELD: JSM, BTP

DRAWN: JSM, BTP

REVIEWED: BTP

BPLS PRO. # 16075

SCALE: 1"=300'

SHEET:  
**23 of 23**