

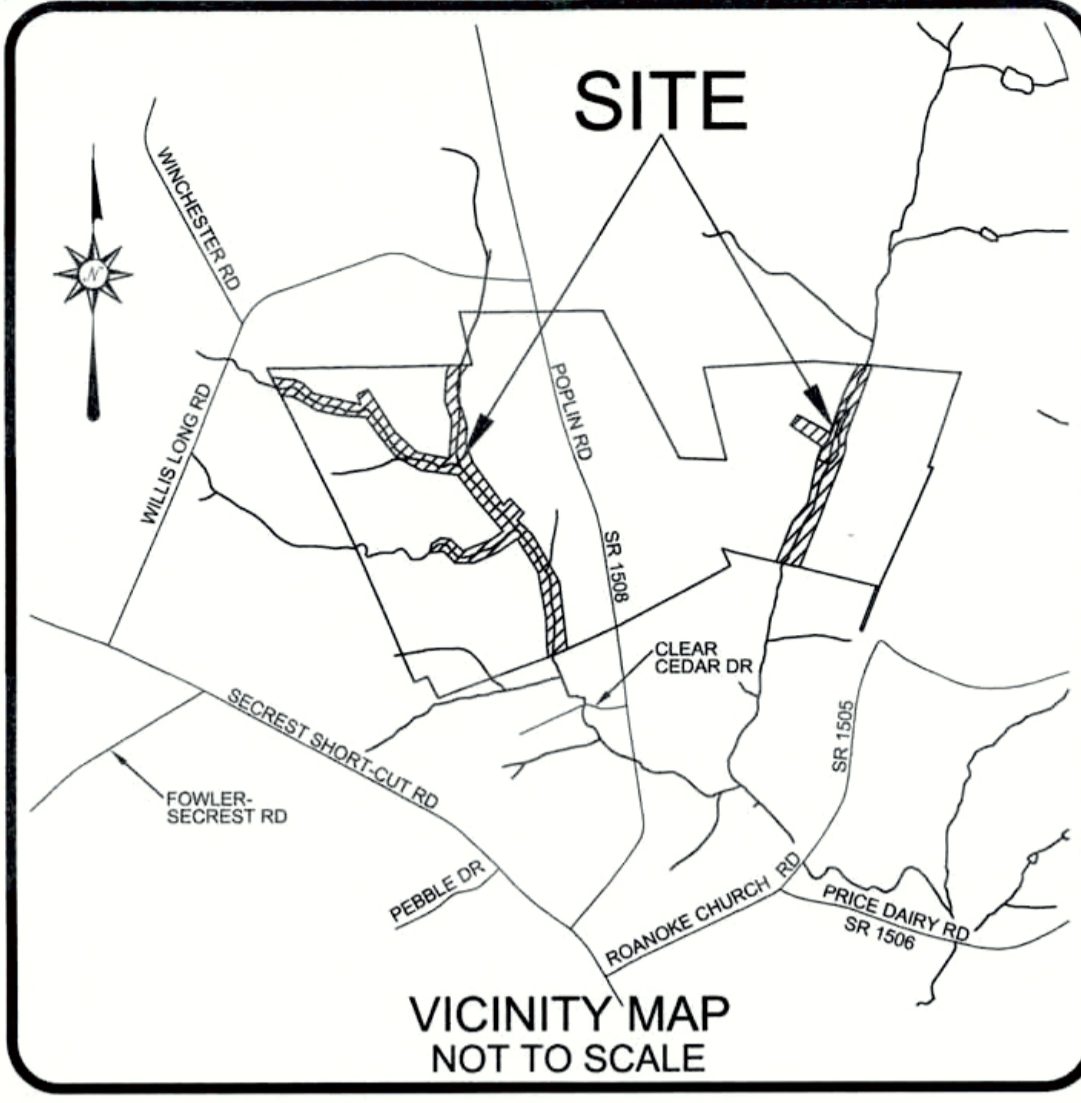
# AS-BUILT SURVEY OF POPLIN RIDGE STREAM RESTORATION PROJECT

UNION COUNTY, NC  
NCEEP PROJECT# 95359

REFERENCES:  
OWNER:  
RESOURCE ENVIRONMENTAL SOLUTIONS, LLC  
302 JEFFERSON STREET, SUITE 110  
RALEIGH, NC 27605

DESIGNER:  
WK DICKSON  
720 CORPORATE CENTER DR  
RALEIGH, NC 27607  
(919) 782-0495

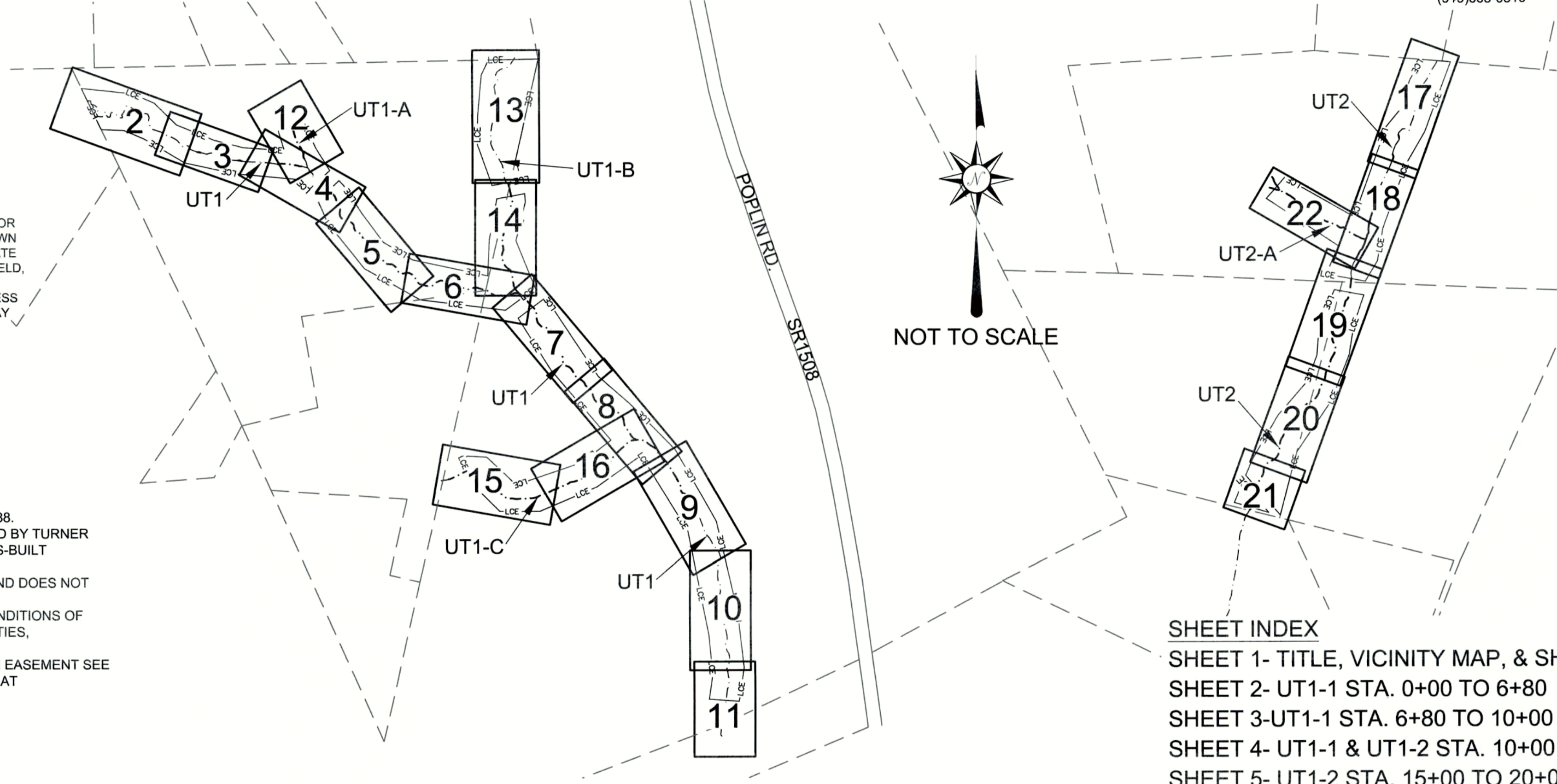
CONTRACTOR:  
WRIGHT CONTRACTING  
LAWDALE, NC  
(919)663-0810



I, DAVID S. 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 19th DAY OF JULY, 2015.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551

- GENERAL NOTES:**
- ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
  - HORIZONTAL DATUM IS NAD83/2007 AND VERTICAL DATUM IS NAVD88.
  - AS-BUILT SURVEY BASED ON EXISTING GPS CONTROL ESTABLISHED BY TURNER LAND SURVEYING FOR CONSTRUCTION AND VERIFIED DURING THE AS-BUILT SURVEYS. SEE CONTROL POINT LIST FOR COORDINATES.
  - THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
  - THE PURPOSE OF THIS MAP IS TO SHOW POST CONSTRUCTION CONDITIONS OF THE STREAM RESTORATION AND MAY NOT SHOW ALL EXISTING UTILITIES, STRUCTURES, AND BOUNDARIES.
  - NO PROPERTY RESEARCH WAS PERFORMED. FOR CONSERVATION EASEMENT SEE PLATS RECORDED IN UNION COUNTY REGISTER OF DEEDS OFFICE PLAT CABINET/SLIDE M, PAGES 255-256.



**AS-BUILT CONTROL POINTS:**

Point#	Northing(Y)	Eastings(X)	Elevation(Z)	Description
1	479136.74	1532320.91	594.12	TLS#1RBC
2	479096.11	1532556.49	593.13	TLS#2RBC
3	479573.37	1532118.97	588.55	TLS#3NL
4	479556.81	1532511.06	588.93	TLS#4NL
5	479917.88	1532670.92	593.12	TLS#5NL
6	480088.31	1532887.71	586.11	TLS#6RBC
7	479675.88	1532714.76	585.11	TLS#7NL
8	479350.58	1532603.63	585.92	TLS#8NL
9	478736.13	1532404.29	579.42	TLS#9NL
10	478439.15	1532243.27	579.31	TLS#10NL
11	478124.82	1532077.95	575.72	TLS#11NL
12	477838.88	1532038.29	578.18	TLS#12NL
13	477439.70	1531930.14	573.98	TLS#13RBC
14	477615.57	1531823.54	577.26	TLS#14RBC
15	478033.42	1531948.50	584.58	TLS#15NL
16	478332.64	1532039.49	576.56	TLS#16NL
17	478620.01	1532120.52	583.86	TLS#17NL
18	478896.31	1532279.14	580.80	TLS#18NL
19	479756.97	1527712.64	602.60	TLS#19RBC
20	479879.13	1527920.72	605.59	TLS#20RBC
21	479603.76	1527898.85	600.94	TLS#21DSC
22	479456.45	1528166.69	597.02	TLS#22NL
23	479163.80	1528244.61	597.70	TLS#23NL
24	479198.48	1528592.73	594.34	TLS#24NL
25	479034.38	1528804.48	591.41	TLS#25DSC
26	479567.94	1528766.73	598.47	TLS#26RBC
27	479301.35	1528891.03	595.74	TLS#27NL
28	478870.41	1529117.48	591.22	TLS#28NL
29	478511.64	1529233.57	587.62	TLS#29RBC
30	478428.25	1529539.95	589.58	TLS#30RBC
31	478282.43	1528637.02	594.60	TLS#31NL
32	478291.60	1528835.93	596.73	TLS#32NL
33	478243.81	1529155.95	594.02	TLS#33NL
34	477243.75	1529671.29	587.08	TLS#34NL
35	477350.60	1529870.39	581.91	TLS#35RBC-TBM

**CROSS SECTION REBAR COORDINATES:**

Description	Northing	Eastings	Elevation	Description	Northing	Eastings	Elevation
XS1 RIGHTBANK	479457.66	1532518.35	580.63	XS16 RIGHTBANK	479232.71	1528772.08	592.46
XS1 LEFTBANK	479431.07	1532592.51	581.21	XS16 LEFTBANK	479250.57	1528818.96	592.16
XS2 RIGHTBANK	479407.52	1532500.51	580.49	XS17 RIGHTBANK	479190.60	1528806.43	591.35
XS3 RIGHTBANK	479389.68	1532590.55	580.90	XS17 LEFTBANK	479225.35	1528842.38	591.37
XS3 LEFTBANK	479498.03	1532192.03	587.82	XS18 RIGHTBANK	478948.55	1528939.76	589.91
XS4 RIGHTBANK	479539.50	1532220.65	587.75	XS18 LEFTBANK	478985.53	1528974.08	589.29
XS4 LEFTBANK	479413.83	1532302.09	586.81	XS19 RIGHTBANK	478933.87	1528971.82	588.54
XS5 RIGHTBANK	479454.38	1532331.95	586.10	XS19 LEFTBANK	478983.07	1528980.95	589.48
XS5 LEFTBANK	478890.32	1532362.00	576.69	XS20 RIGHTBANK	478604.01	1529201.79	588.30
XS6 RIGHTBANK	478902.93	1532410.92	577.86	XS20 LEFTBANK	478625.58	1529246.96	586.56
XS6 LEFTBANK	478859.09	1532373.15	576.90	XS21 RIGHTBANK	478569.68	1529240.49	587.14
XS7 RIGHTBANK	478869.73	1532422.06	578.47	XS21 LEFTBANK	478618.98	1529250.22	586.67
XS7 LEFTBANK	478373.91	1532079.47	576.35	XS22 RIGHTBANK	478320.33	1528663.38	593.29
XS8 RIGHTBANK	478340.87	1532116.96	575.21	XS22 LEFTBANK	478370.09	1528657.00	593.89
XS8 LEFTBANK	478331.96	1532061.63	576.48	XS23 RIGHTBANK	478320.41	1528674.32	593.02
XS9 RIGHTBANK	478323.71	1532111.04	575.24	XS23 LEFTBANK	478369.34	1528685.68	594.24
XS9 LEFTBANK	479688.36	1527542.78	603.18	XS24 RIGHTBANK	478349.98	1529236.23	587.93
XS10 RIGHTBANK	479735.08	1527560.58	603.94	XS24 LEFTBANK	478394.64	1529213.57	588.40
XS10 LEFTBANK	479677.49	1527566.07	603.32	XS25 RIGHTBANK	478355.13	1529262.46	587.69
XS11 RIGHTBANK	479724.58	1527582.47	603.16	XS25 LEFTBANK	478400.26	1529240.18	587.35
XS11 LEFTBANK	479727.89	1527895.16	599.17	XS26 RIGHTBANK	478114.03	1529621.12	583.47
XS12 RIGHTBANK	479519.51	1528040.67	597.03	XS26 LEFTBANK	478139.76	1529664.20	584.09
XS12 LEFTBANK	479545.83	1528083.45	597.30	XS27 RIGHTBANK	478088.38	1529634.79	583.88
XS13 RIGHTBANK	479499.25	1528049.06	596.72	XS27 LEFTBANK	478111.17	1529679.41	583.46
XS13 LEFTBANK	479515.19	1528096.61	596.91	XS28 RIGHTBANK	477500.71	1529742.83	581.91
XS14 RIGHTBANK	479106.84	1528582.86	593.23	XS28 LEFTBANK	477481.84	1529789.55	580.60
XS14-15 LEFTBANK	479154.58	1528598.10	592.23	XS29 RIGHTBANK	477480.17	1529736.57	581.83
XS15 RIGHTBANK	479105.51	1528606.35	592.90	XS29 LEFTBANK	477475.00	1529786.93	580.63

- SHEET INDEX**
- SHEET 1- TITLE, VICINITY MAP, & SHEET INDEX
  - SHEET 2- UT1-1 STA. 0+00 TO 6+80
  - SHEET 3- UT1-1 STA. 6+80 TO 10+00
  - SHEET 4- UT1-1 & UT1-2 STA. 10+00 TO 15+00
  - SHEET 5- UT1-2 STA. 15+00 TO 20+00
  - SHEET 6- UT1-2 STA. 20+00 TO 25+00
  - SHEET 7- UT1-3 STA. 25+00 TO 30+00
  - SHEET 8- UT1-3 STA. 30+00 TO 35+00
  - SHEET 9- UT1-4 STA. 35+00 TO 40+00
  - SHEET 10- UT1-4 STA. 40+00 TO 45+00
  - SHEET 11- UT1-4 STA. 45+00 TO 48+20
  - SHEET 12- UT1-A STA. 0+00 TO 2+89
  - SHEET 13- UT1-B STA. 0+00 TO 6+00
  - SHEET 14- UT1-B STA. 6+00 TO 11+44.7
  - SHEET 15- UT1-C STA. 0+00 TO 5+00
  - SHEET 16- UT1-C STA. 5+00 TO 10+01
  - SHEET 17- UT2-1 STA. 0+00 TO 5+00
  - SHEET 18- UT2-2 STA. 5+00 TO 10+00
  - SHEET 19- UT2-2 & UT2-3 STA. 10+00 TO 15+00
  - SHEET 20- UT2-3 & UT2-4 STA. 15+00 TO 20+00
  - SHEET 21- UT2-4 STA. 20+00 TO 22+20
  - SHEET 22- UT2-A STA. 0+00 TO 5+06

REVISIONS, DATE AND INITIAL:

TURNER LAND SURVEYING  
Certified DBE/WBE

3719 BENSON DRIVE  
RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com

NORTH CAROLINA  
UNION COUNTY  
MONROE

TITLE, VICINITY MAP, & SHEET INDEX  
**POPLIN RIDGE STREAM  
RESTORATION PROJECT**  
NCEEP PROJECT # 95359

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**1 of 22**



I, DAVID S. 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 19th DAY OF JULY, 2015.

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DAVID S. TURNER, P.L.S. #L-4551



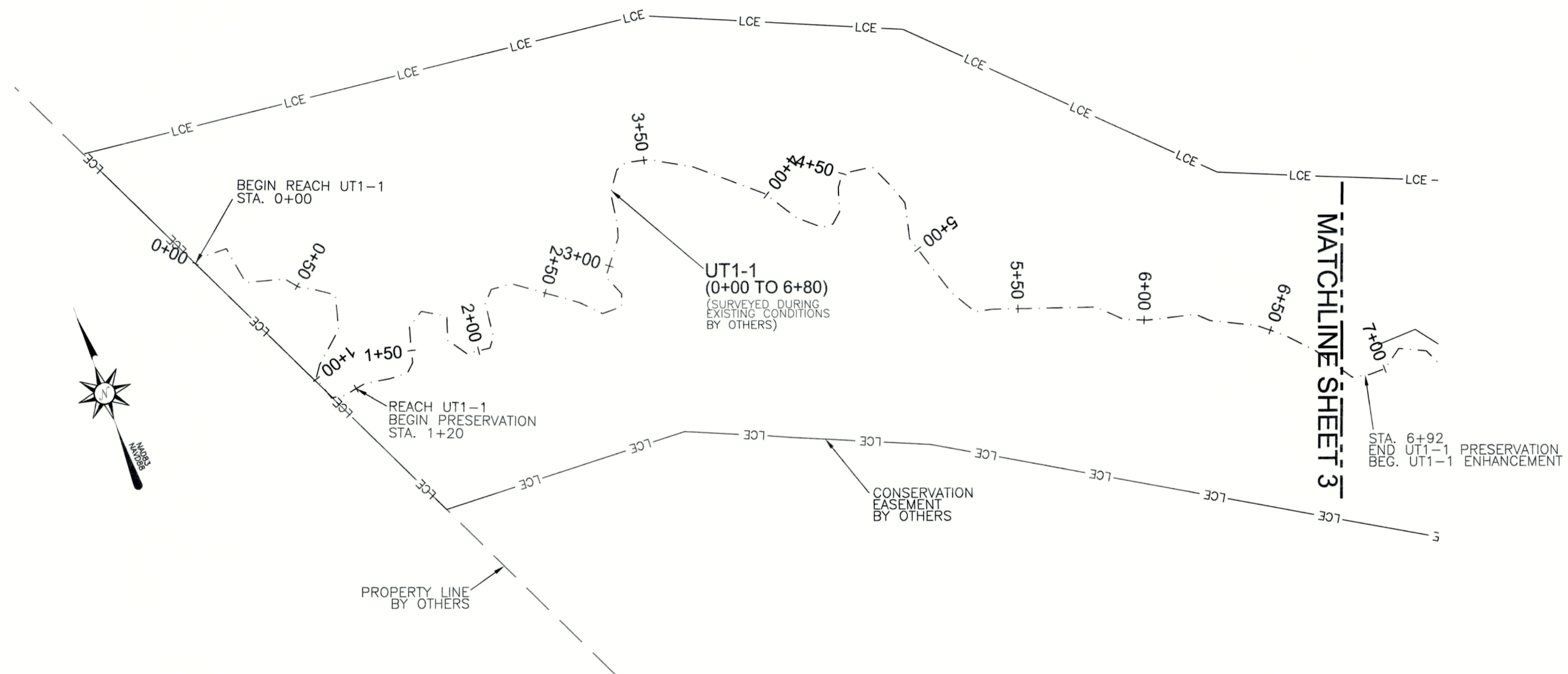
LEGEND:	
--- THALWEG	===== FLOODPLAIN SILL
--- TOP OF BANK	----- ROCK STEP POOL
--- BANK TOE	----- RIFLE GRADE CONTROL
--- LCE --- CONSERVATION EASEMENT	----- ROCK SILL
--- LIMITS OF AS-BUILT SURVEY	----- ROCK CROSS VANE
--- EX. THALWEG (BY OTHERS)	----- LIVE CUTTING BUNDLE/ LIVE PLANTING
--- EX. PROPERTY LINE (NOT SURVEYED)	----- VP VEGETATION PLOT
===== BEDROCK	
===== RIP RAP	
===== LOG STRUCTURE	
===== LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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

**GENERAL NOTES:**

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83/2007 AND VERTICAL DATUM IS NAVD88.
3. AS-BUILT SURVEY BASED ON EXISTING GPS CONTROL ESTABLISHED BY TURNER LAND SURVEYING FOR CONSTRUCTION AND VERIFIED DURING THE AS-BUILT SURVEYS. SEE CONTROL POINT LIST FOR COORDINATES.
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6. NO PROPERTY RESEARCH WAS PERFORMED.



REVISIONS, DATE AND INITIAL:

3719 BENSON DRIVE  
RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified DBE/WBE



UT1-1 STA 0+00 TO 6+80

**POPLIN RIDGE STREAM RESTORATION PROJECT**

NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE: 04/27/2015

SURVEYED BY: DST/JAP/DTH

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-14-029

FILE: POPLIN RIDGE\_95359\_AB\_TLS.F

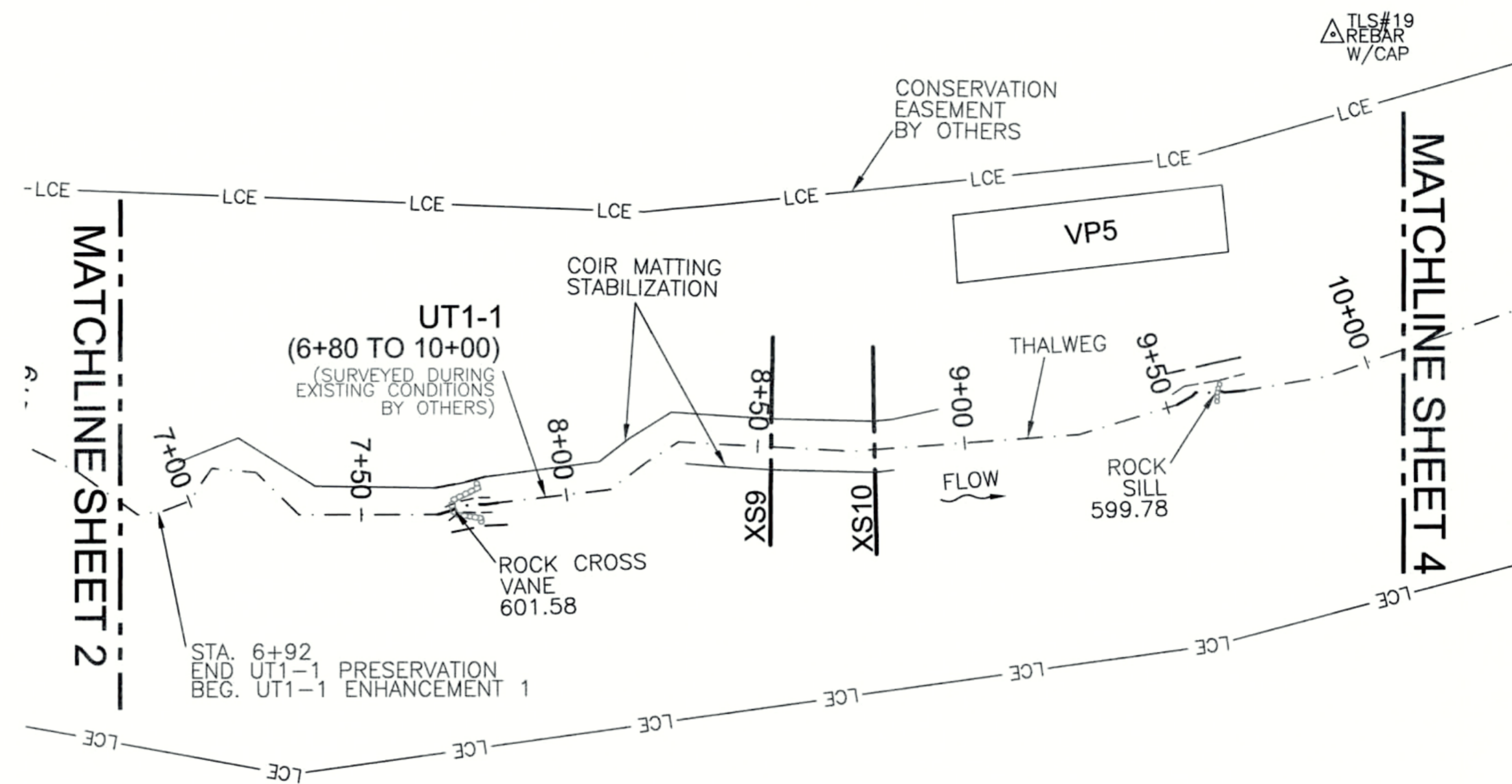
SCALE: AS SHOWN

SHEET  
2 of 22



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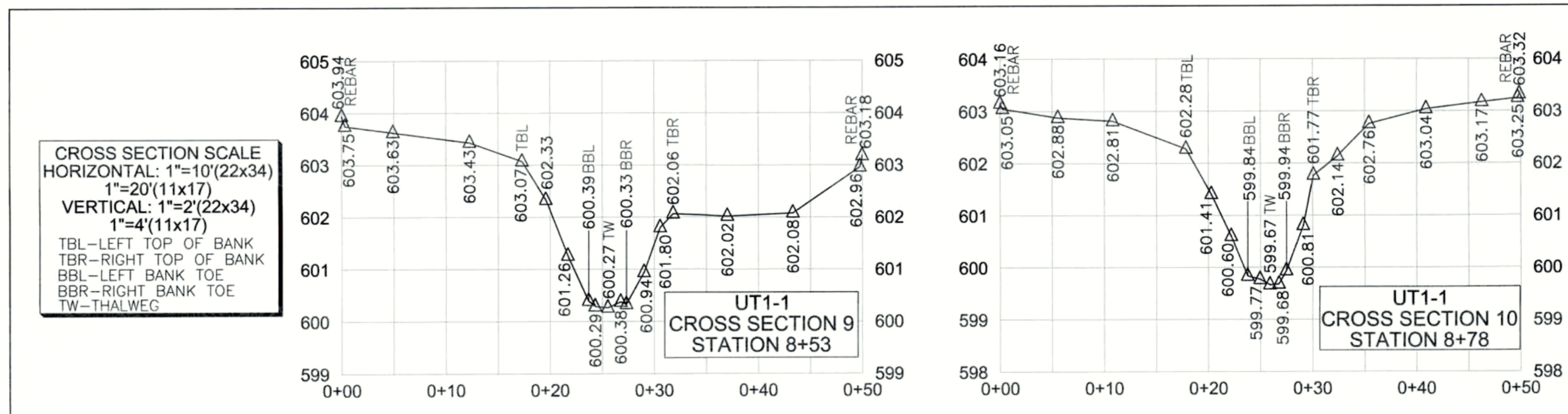
*David S. Turner*  
 DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
--- THALWEG	===== FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
--- LIMITS OF AS-BUILT SURVEY	--- ROCK CROSS VANE
--- EX. THALWEG (BY OTHERS)	--- LIVE CUTTING BUNDLE/ LIVE PLANTING
--- EX. PROPERTY LINE (NOT SURVEYED)	--- VP VEGETATION PLOT
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED APR. 2015

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



CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS9 RIGHTBANK	479688.36	1527542.78	603.18
XS9 LEFTBANK	479735.08	1527560.58	603.94
XS10 RIGHTBANK	479677.49	1527566.07	603.32
XS10 LEFTBANK	479724.58	1527582.47	603.16

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UT1-1 STA 6+80 TO 10+00

POPLIN RIDGE STREAM  
 RESTORATION PROJECT  
 NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

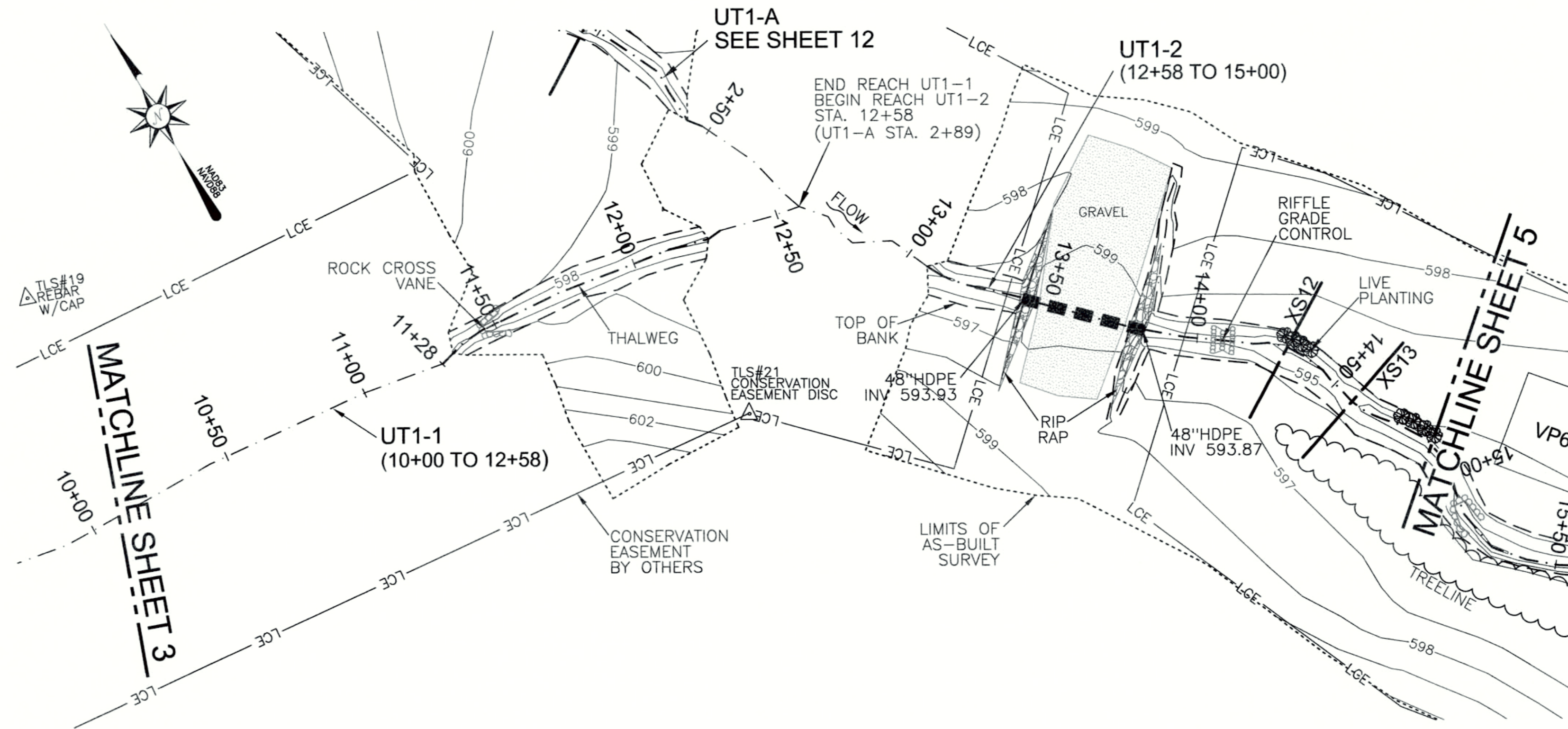
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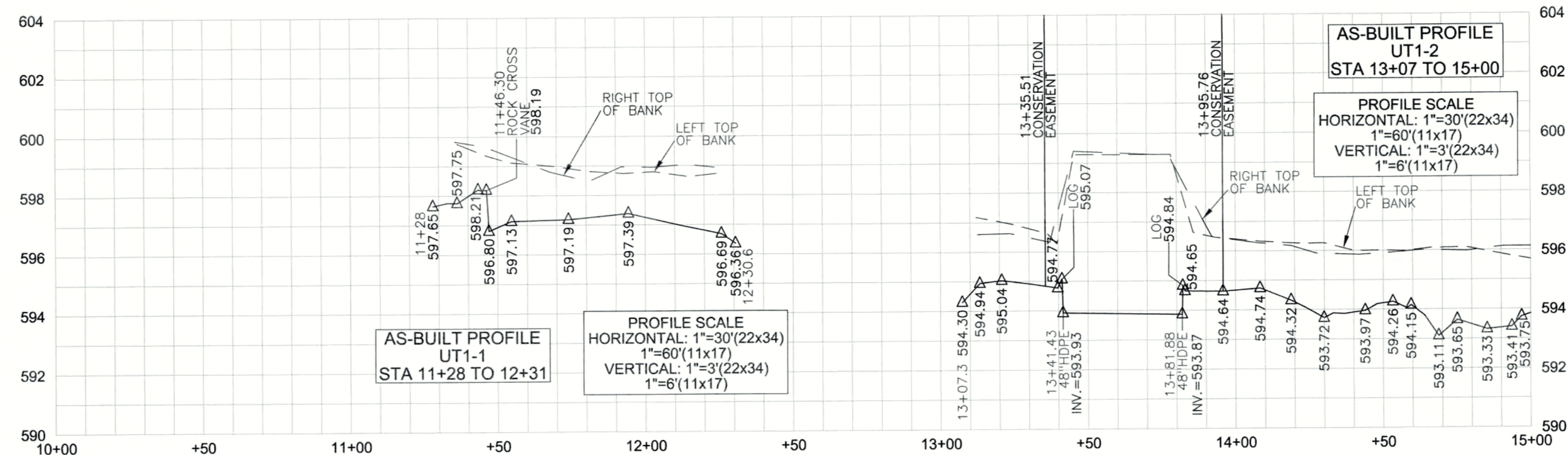


**LEGEND:**

--- THALWEG	--- FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE CONSERVATION EASEMENT	--- ROCK SILL
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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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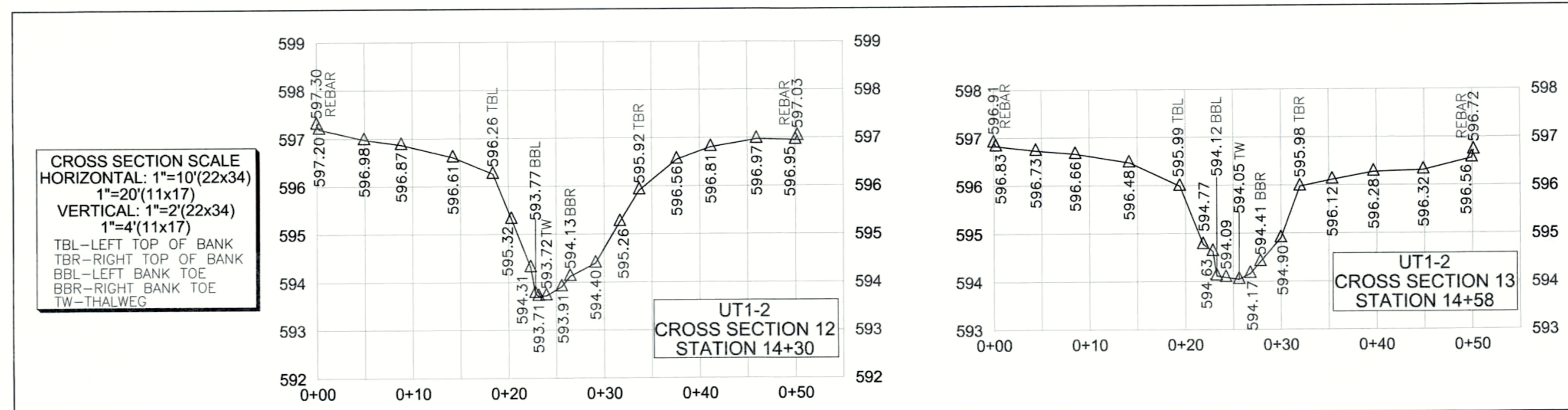


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Description	Northing	Eastng	Elevation
XS12 RIGHTBANK	479519.51	1528040.67	597.03
XS12 LEFTBANK	479545.83	1528083.45	597.30
XS13 RIGHTBANK	479499.25	1528049.06	596.72
XS13 LEFTBANK	479515.19	1528096.61	596.91



UT1-1 & UT1-2 STA 10+00 TO 15+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**

NCEEP PROJECT # 95359

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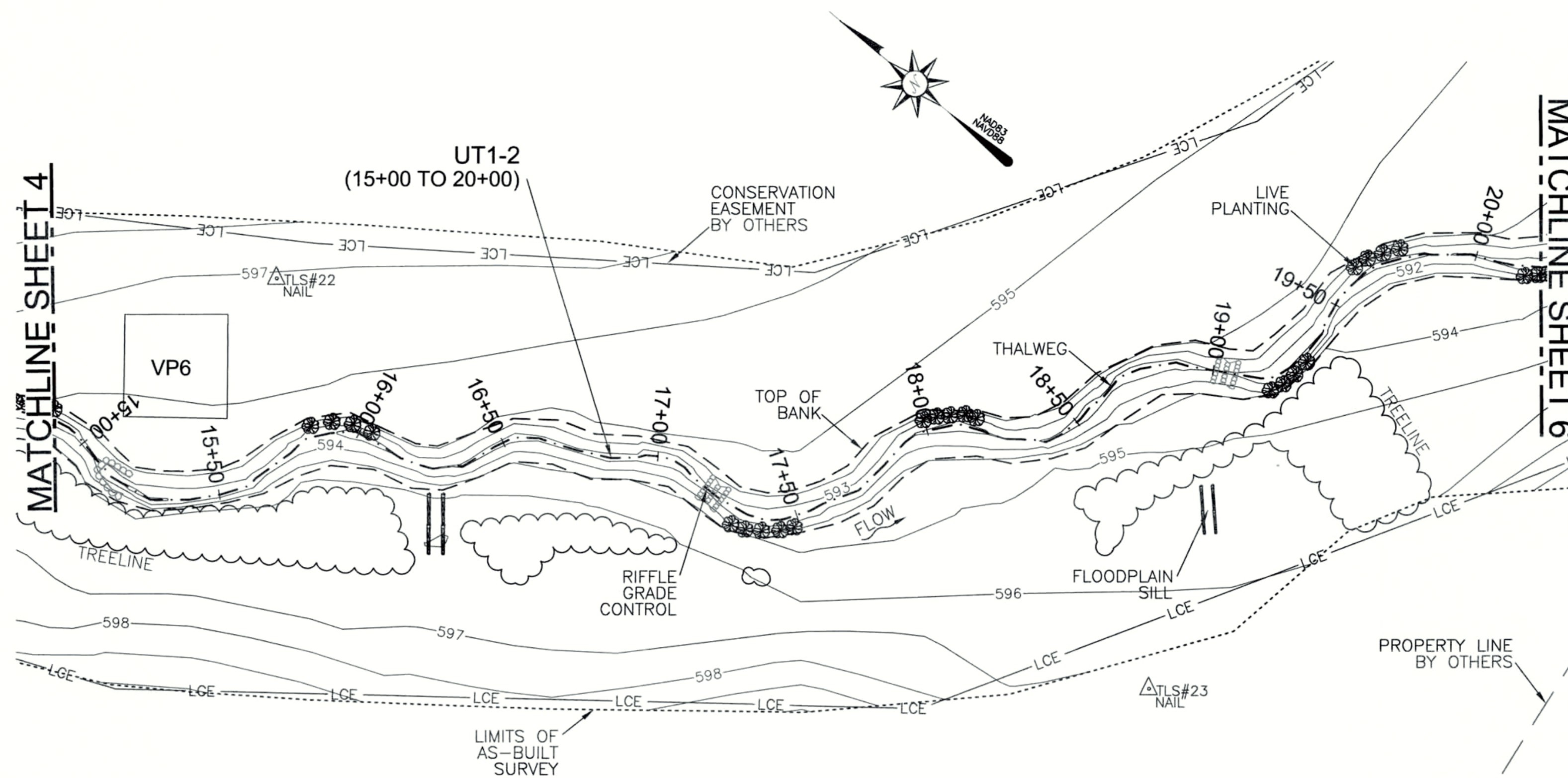
REVISIONS, DATE AND INITIAL:

DATE:	04/27/2015
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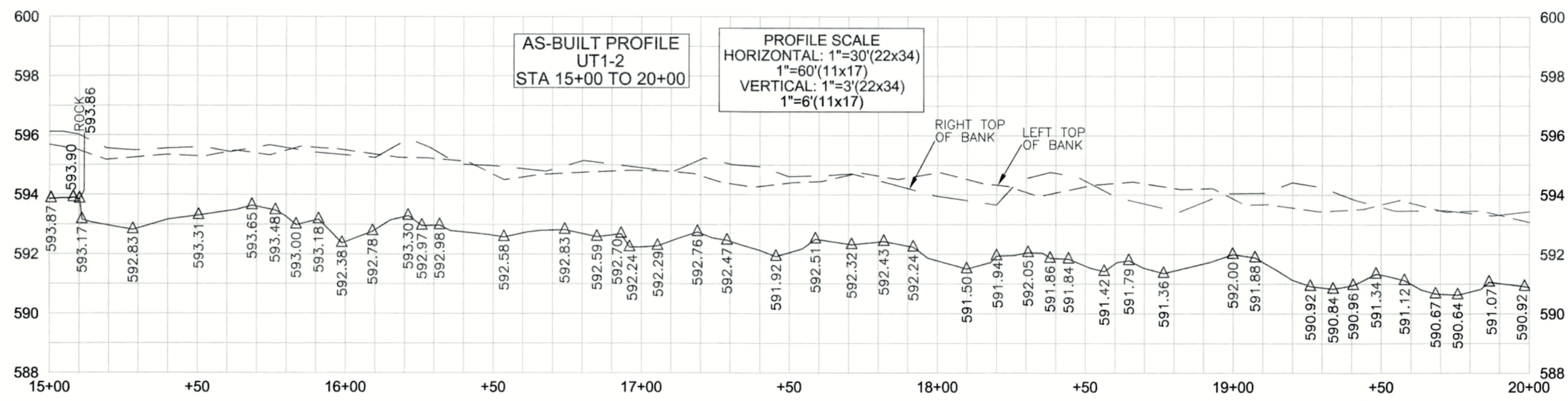


LEGEND:	
--- THALWEG	--- FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE CONSERVATION EASEMENT	--- ROCK SILL
--- LIMITS OF AS-BUILT SURVEY	--- ROCK CROSS VANE
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--- BEDROCK	
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--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

30' 0' 30' 60'

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



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UT1-2 STA 15+00 TO 20+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

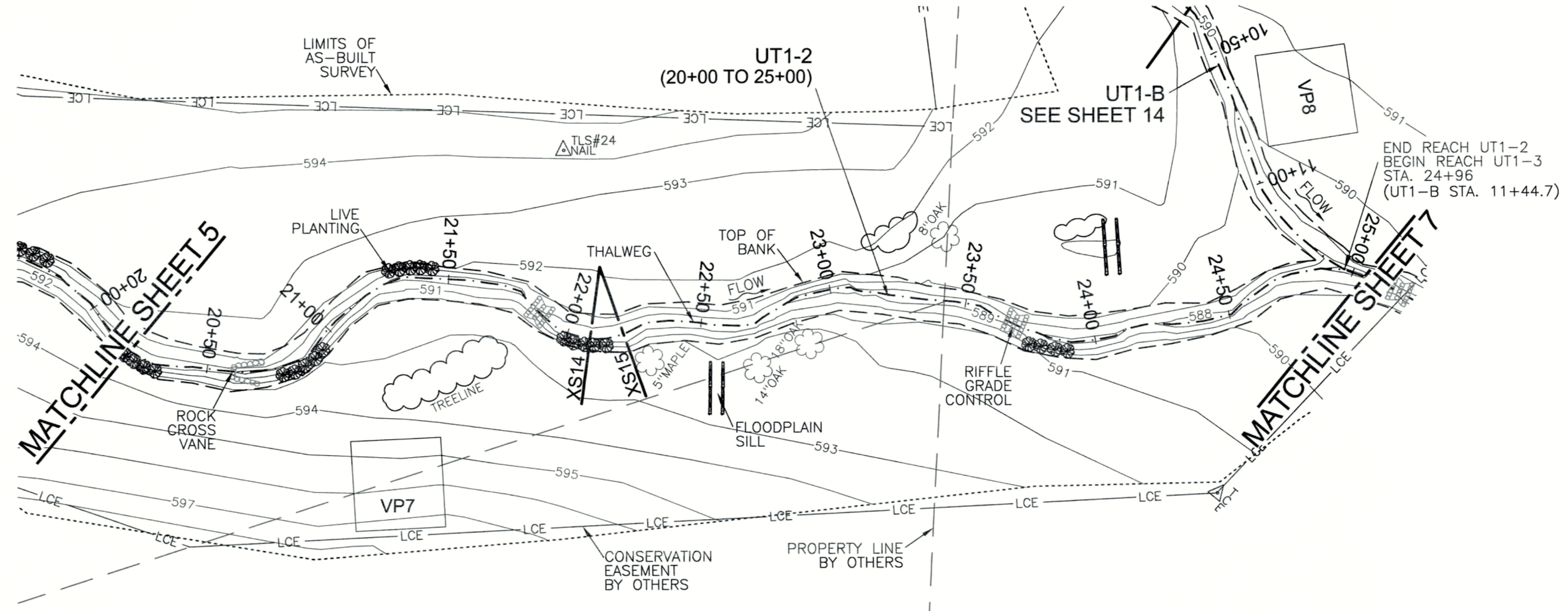
DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
5 of 22



I, DAVID S. 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 19th DAY OF JULY, 2015.

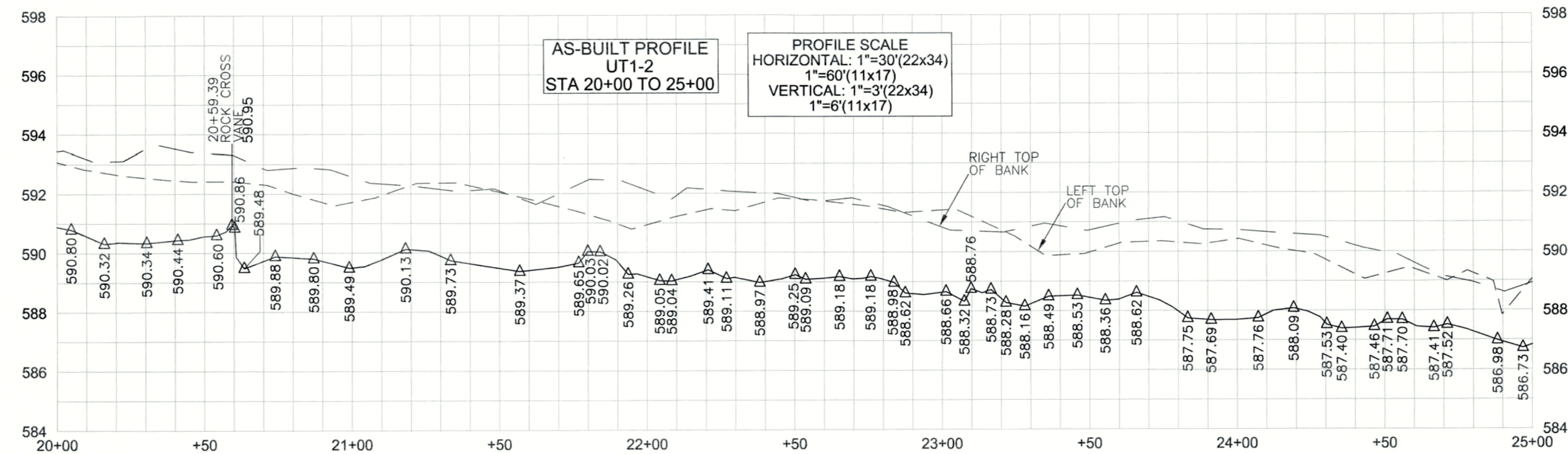
*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
--- THALWEG	== FLOODPLAIN SILL
- - - TOP OF BANK	--- ROCK STEP POOL
- - - BANK TOE	--- RIFFLE GRADE CONTROL
- - - LCE	--- ROCK SILL
- - - CONSERVATION EASEMENT	--- ROCK CROSS VANE
- - - LIMITS OF AS-BUILT SURVEY	--- LIVE CUTTING BUNDLE/LIVE PLANTING
- - - EX. THALWEG (BY OTHERS)	--- VEGETATION PLOT
- - - EX. PROPERTY LINE (NOT SURVEYED)	
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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

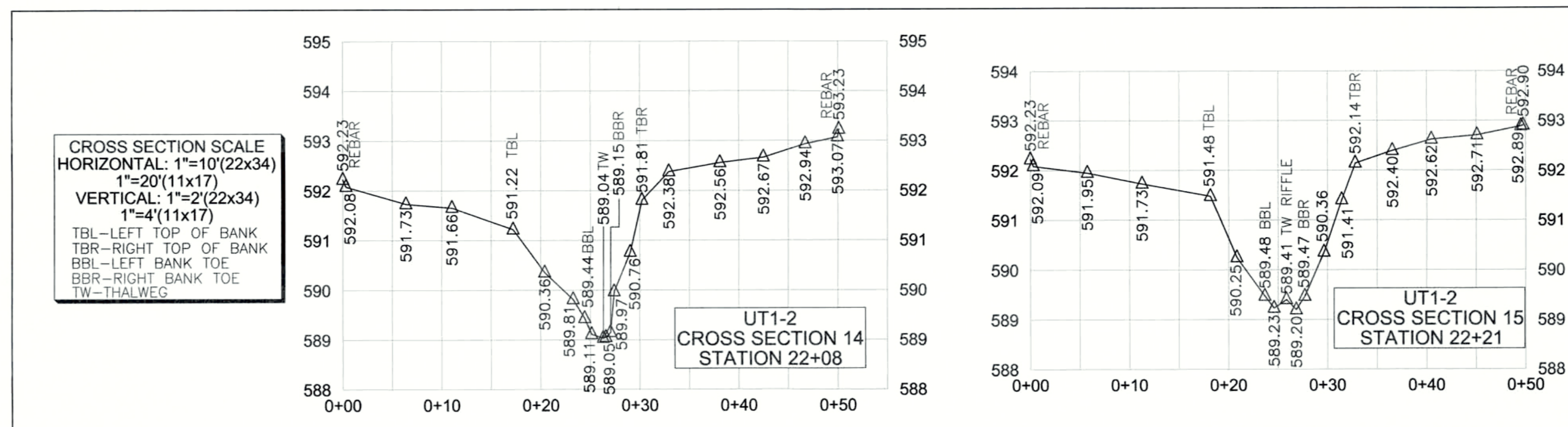


**GENERAL NOTES:**

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83/2007 AND VERTICAL DATUM IS NAVD88.
3. AS-BUILT SURVEY BASED ON EXISTING GPS CONTROL ESTABLISHED BY TURNER LAND SURVEYING FOR CONSTRUCTION AND VERIFIED DURING THE AS-BUILT SURVEYS. SEE CONTROL POINT LIST FOR COORDINATES.
4. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
5. THE PURPOSE OF THIS MAP IS TO SHOW POST CONSTRUCTION CONDITIONS OF THE STREAM RESTORATION AND MAY NOT SHOW ALL EXISTING UTILITIES, STRUCTURES, AND BOUNDARIES.
6. NO PROPERTY RESEARCH WAS PERFORMED.

CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS14 RIGHTBANK	479106.84	1528582.86	593.23
XS14-15 LEFTBANK	479154.58	1528598.10	592.23
XS15 RIGHTBANK	479105.51	1528606.35	592.90



REVISIONS, DATE AND INITIAL:



3719 BENSON DRIVE  
RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified DBE/WBE

UT1-2 STA 20+00 TO 25+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**6 of 22**

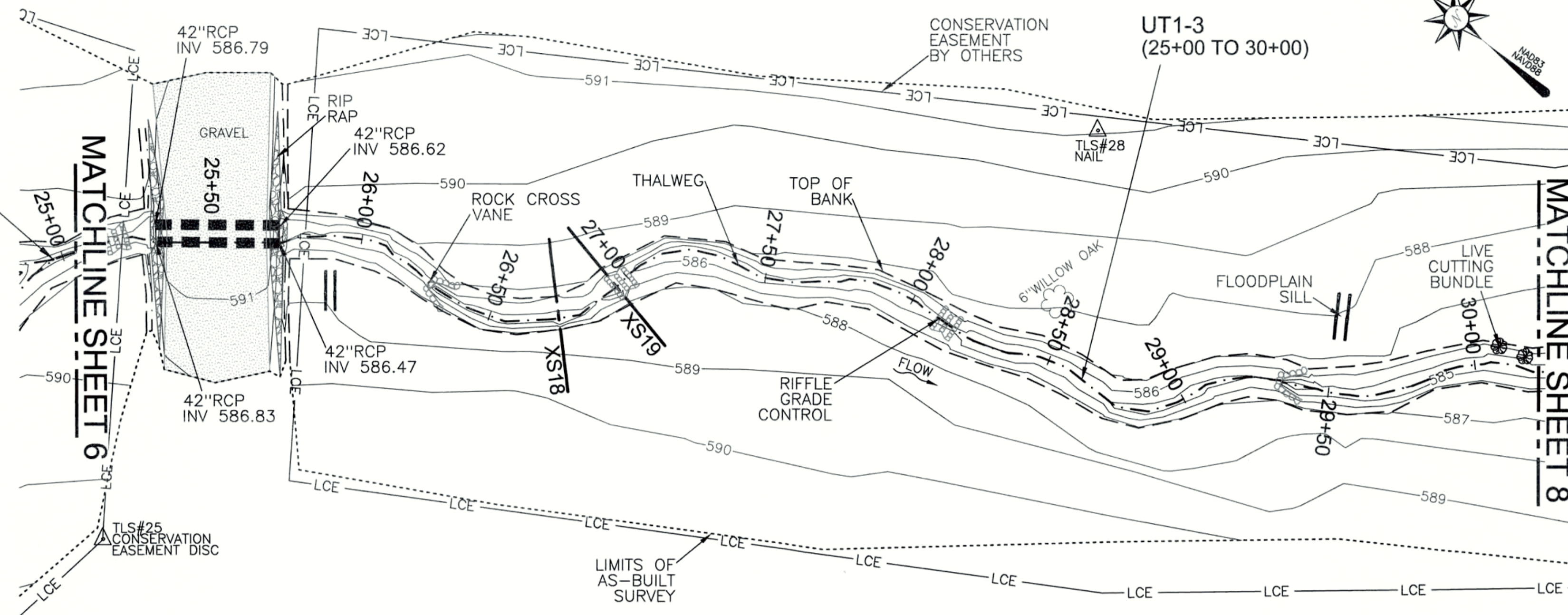


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*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



END REACH UT1-2  
BEGIN REACH UT1-3  
STA. 24+96  
(UT1-B STA. 11+44.7)

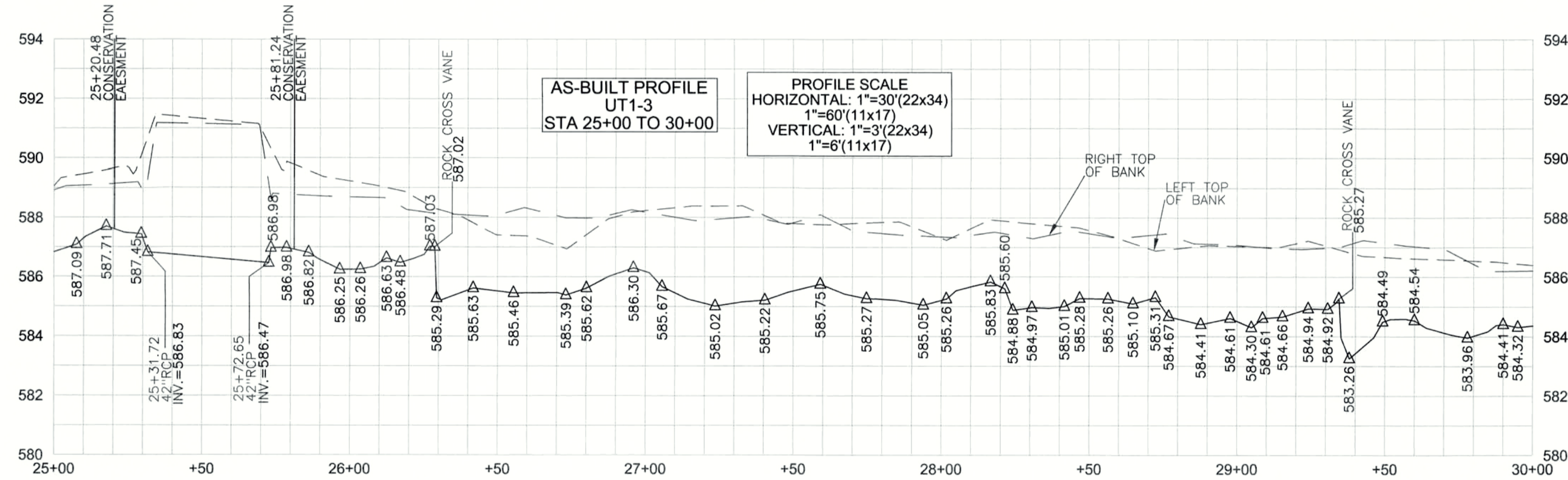


**LEGEND:**

--- THALWEG	--- FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
--- CONSERVATION EASEMENT	--- ROCK CROSS VANE
--- LIMITS OF AS-BUILT SURVEY	--- LIVE CUTTING BUNDLE/ LIVE PLANTING
--- EX. THALWEG (BY OTHERS)	--- VP VEGETATION PLOT
--- EX. PROPERTY LINE (NOT SURVEYED)	
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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

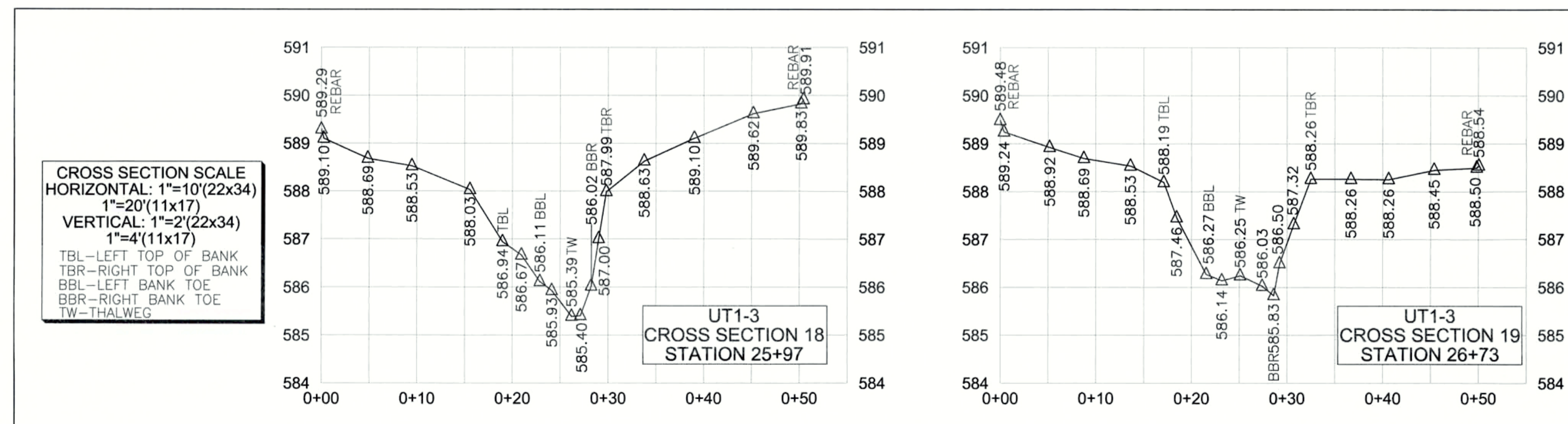


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CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS18 RIGHTBANK	478948.55	1528939.76	589.91
XS18 LEFTBANK	478985.53	1528974.08	589.29
XS19 RIGHTBANK	478933.87	1528971.82	588.54
XS19 LEFTBANK	478983.07	1528980.95	589.48

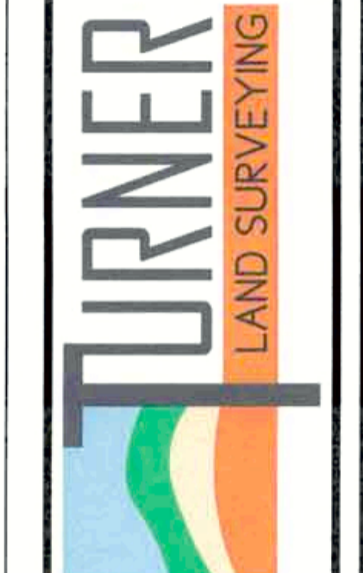


REVISIONS, DATE AND INITIAL:

UT1-3 STA 25+00 TO 30+00  
**POPLIN RIDGE STREAM  
RESTORATION PROJECT**  
NCEEP PROJECT # 95359

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

3719 BENSON DRIVE  
RALEIGH, NC 27609  
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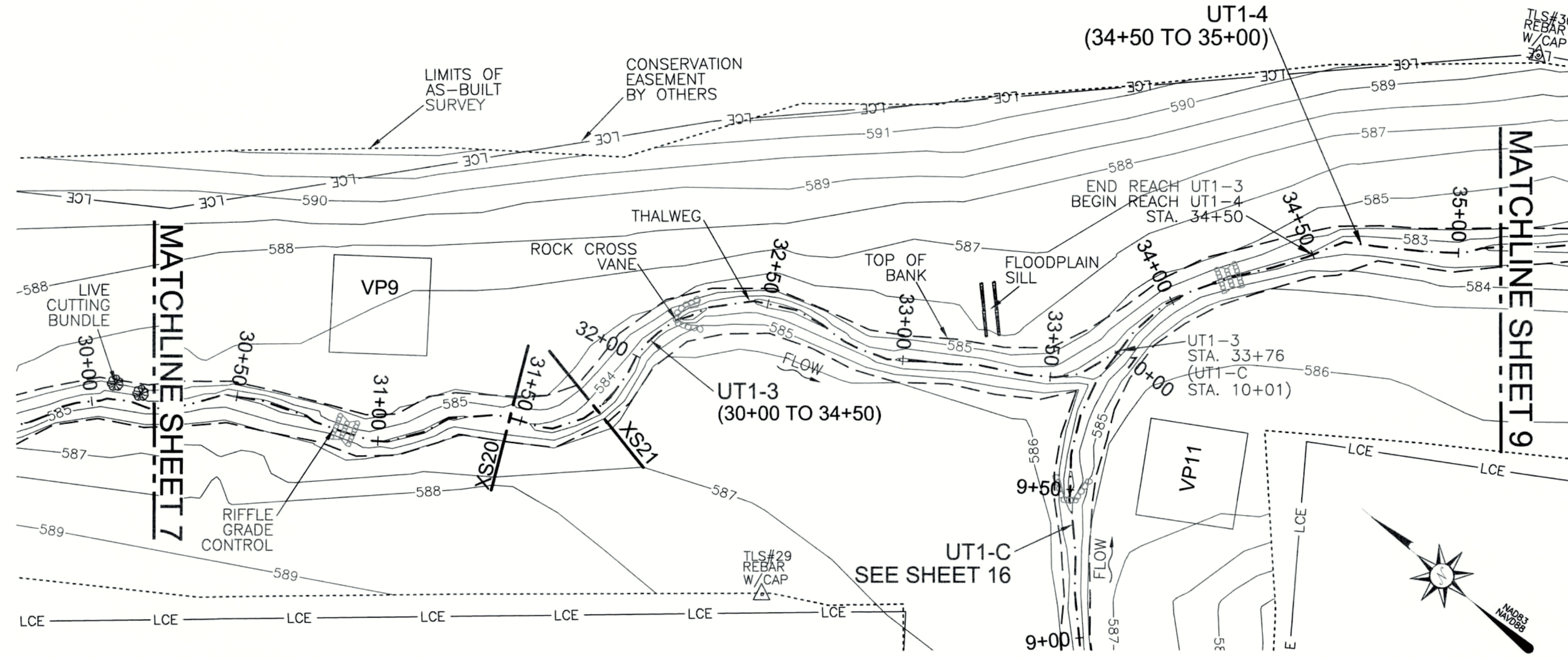


NORTH CAROLINA  
UNION COUNTY  
MONROE



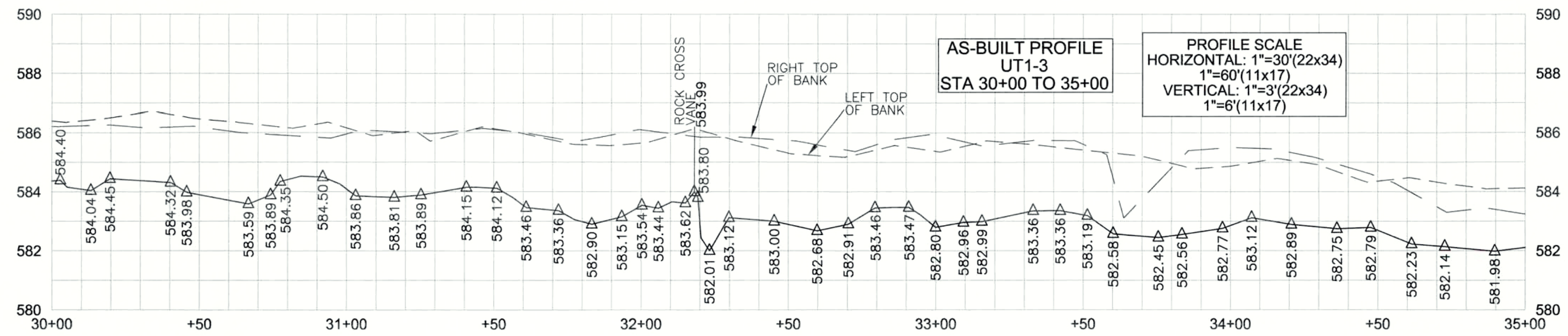
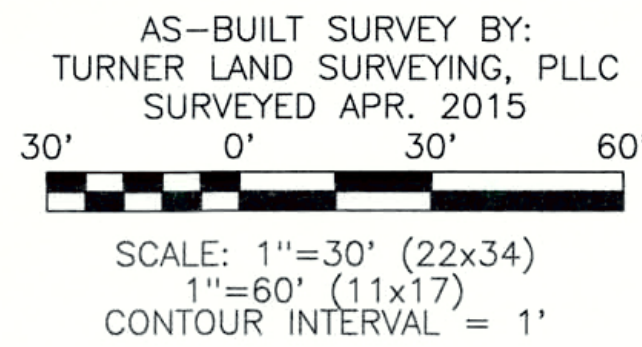
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*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



**LEGEND:**

--- THALWEG	== FLOODPLAIN SILL
- - - TOP OF BANK	⊠ ROCK STEP POOL
- - - BANK TOE	⊠ RIFFLE GRADE CONTROL
- - - LCE	⊠ ROCK SILL
- - - CONSERVATION EASEMENT	⊠ ROCK CROSS VANE
- - - LIMITS OF AS-BUILT SURVEY	⊠ LIVE CUTTING BUNDLE/LIVE PLANTING
- - - EX. THALWEG (BY OTHERS)	⊠ VP VEGETATION PLOT
- - - EX. PROPERTY LINE (NOT SURVEYED)	
▨ BEDROCK	
▨ RIP RAP	
▨ LOG STRUCTURE	
▨ LOG GRADE CONTROL STRUCTURE	

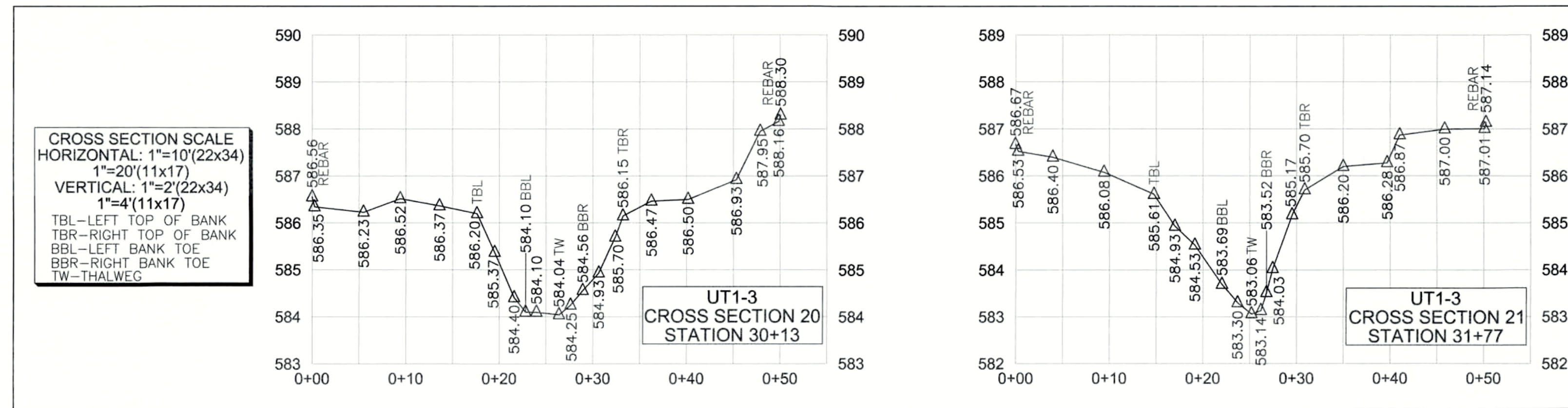


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CROSS SECTION REBAR COORDINATES:

Description	Northing	Eastng	Elevation
XS20 RIGHTBANK	478604.01	1529201.79	588.30
XS20 LEFTBANK	478625.58	1529246.96	586.56
XS21 RIGHTBANK	478569.68	1529240.49	587.14
XS21 LEFTBANK	478618.98	1529250.22	586.67



REVISIONS, DATE AND INITIAL:

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NORTH CAROLINA

UNION COUNTY

MONROE

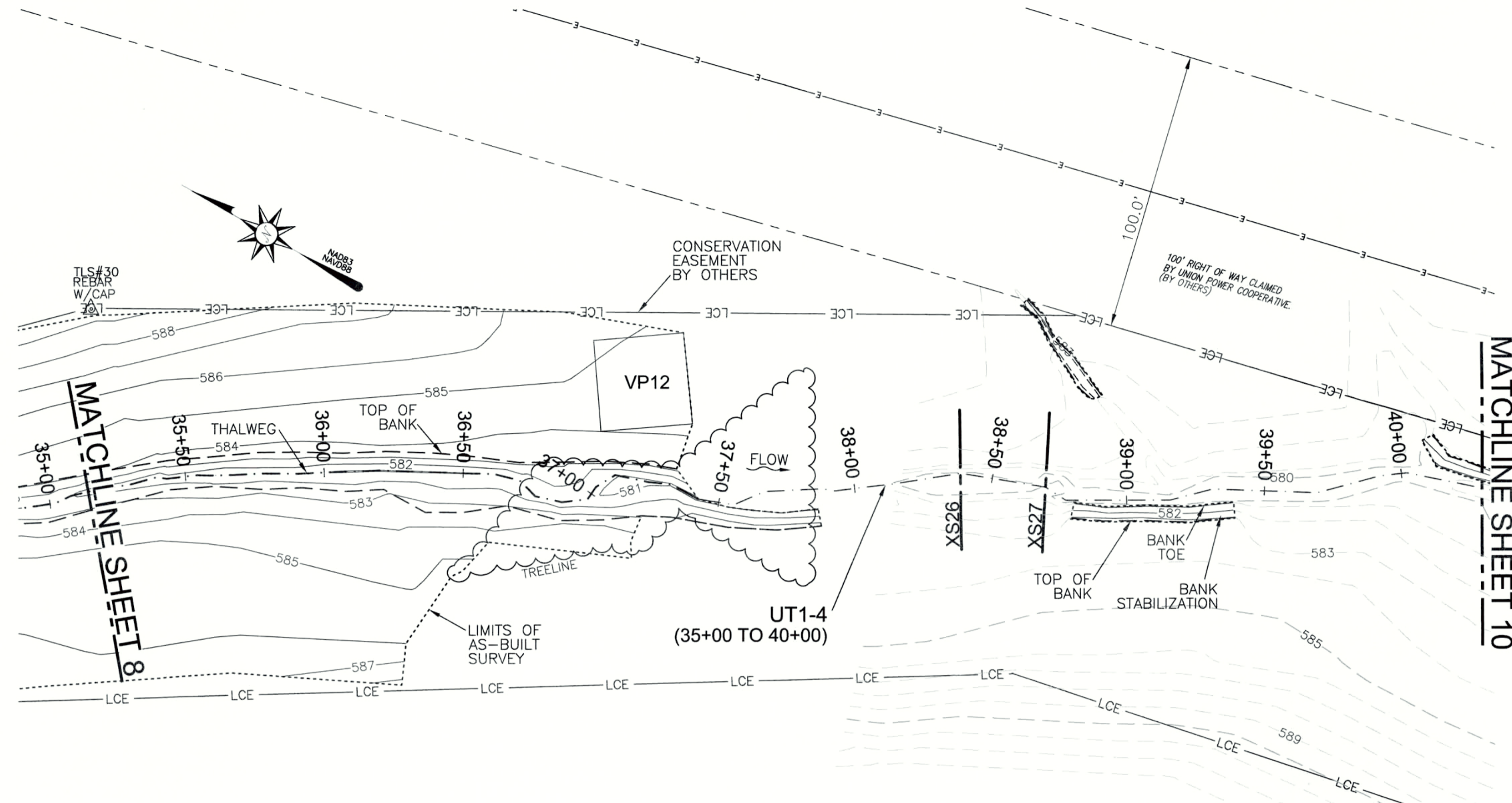
UT1-3 STA 30+00 TO 35+00  
**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

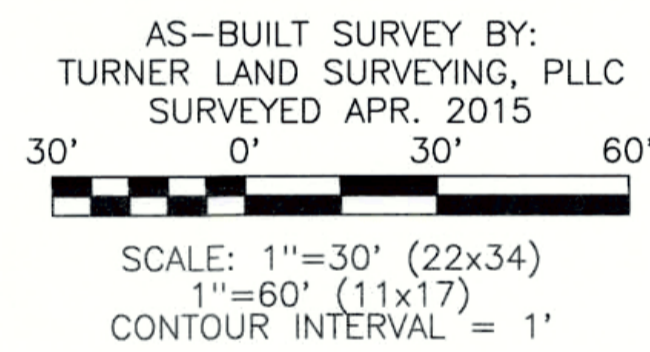


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DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
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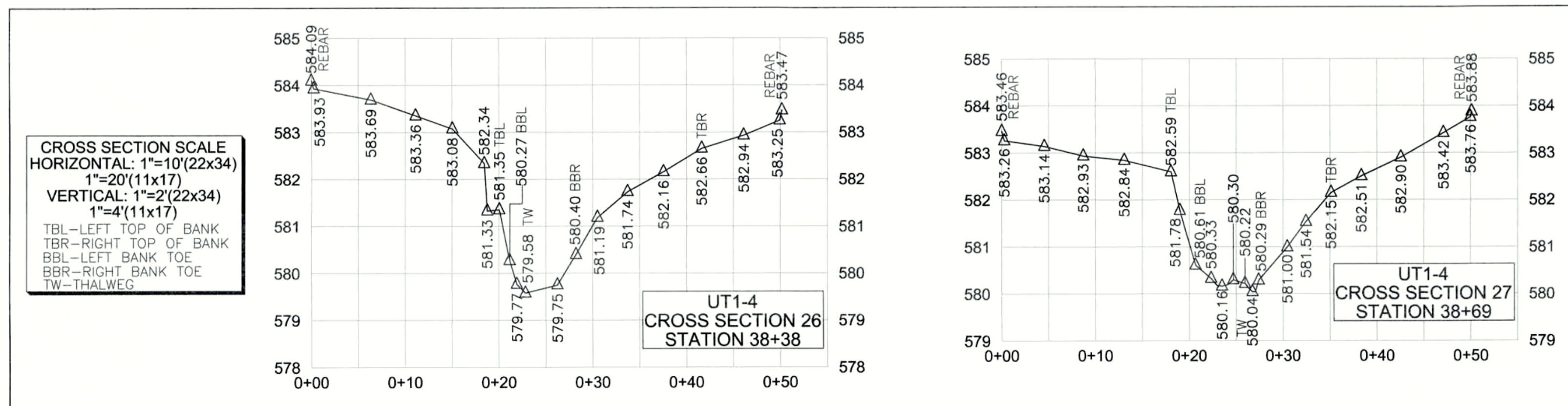
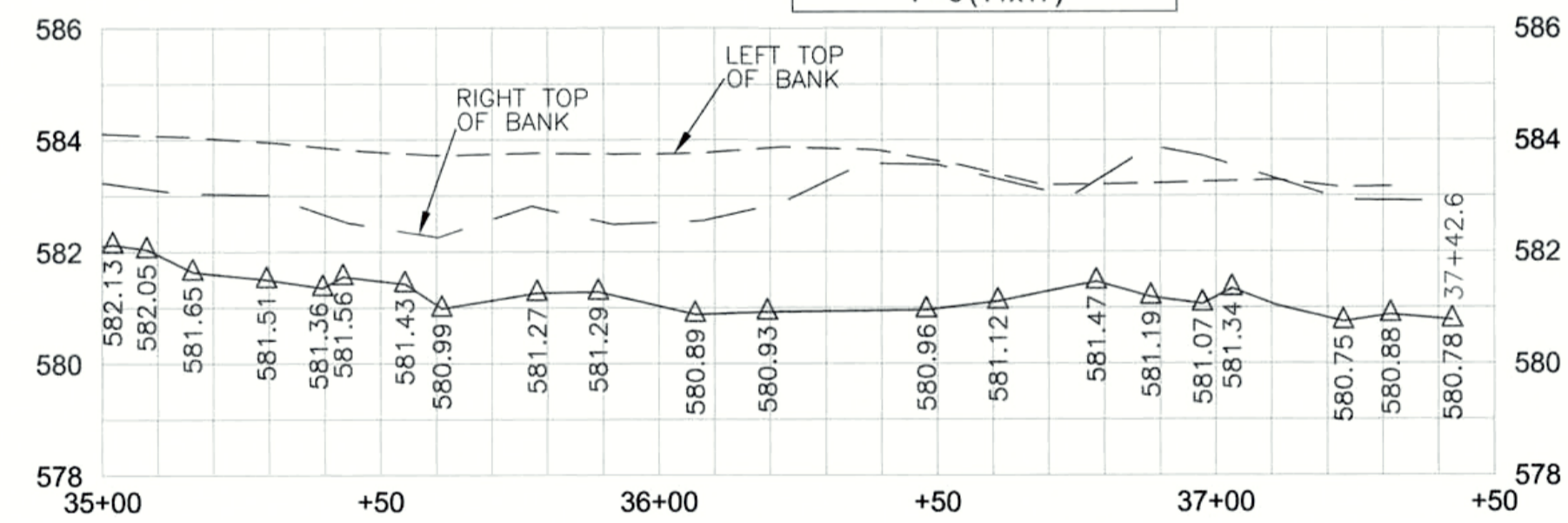
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CROSS SECTION REBAR COORDINATES:			
Description	Northing	Easting	Elevation
XS26 RIGHTBANK	478114.03	1529621.12	583.47
XS26 LEFTBANK	478139.76	1529664.20	584.09
XS27 RIGHTBANK	478088.38	1529634.79	583.88
XS27 LEFTBANK	478111.17	1529679.41	583.46

AS-BUILT PROFILE  
UT1-4  
STA 35+00 TO 37+42

PROFILE SCALE  
HORIZONTAL: 1"=30'(22x34)  
1"=60'(11x17)  
VERTICAL: 1"=3'(22x34)  
1"=6'(11x17)



REVISIONS, DATE AND INITIAL:



3719 BENSON DRIVE  
RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified DBE/WBE

UT1-4 STA 35+00 TO 40+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**

NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/IDH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS.F
SCALE:	AS SHOWN



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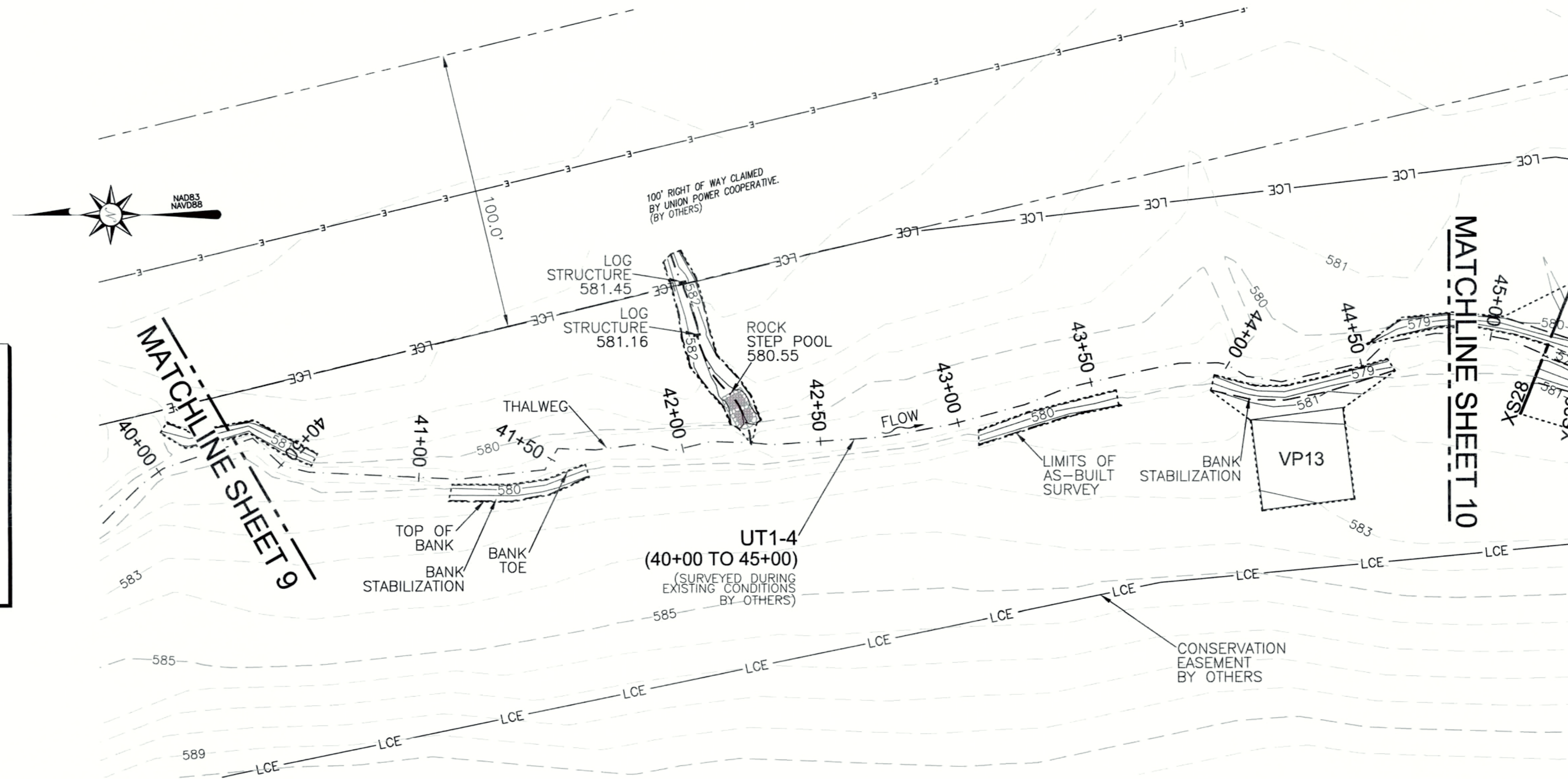
*David S. Turner*  
 DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
--- THALWEG	===== FLOODPLAIN SILL
- - - TOP OF BANK	⊠ ROCK STEP POOL
- - - BANK TOE	⊠ RIFFLE GRADE CONTROL
- - - LCE CONSERVATION EASEMENT	⊠ ROCK SILL
- - - LIMITS OF AS-BUILT SURVEY	⊠ ROCK CROSS VANE
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▨ BEDROCK	
▨ RIP RAP	
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AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED APR. 2015

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



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UT1-4 STA 40+00 TO 45+00  
**POPLIN RIDGE STREAM RESTORATION PROJECT**  
 NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

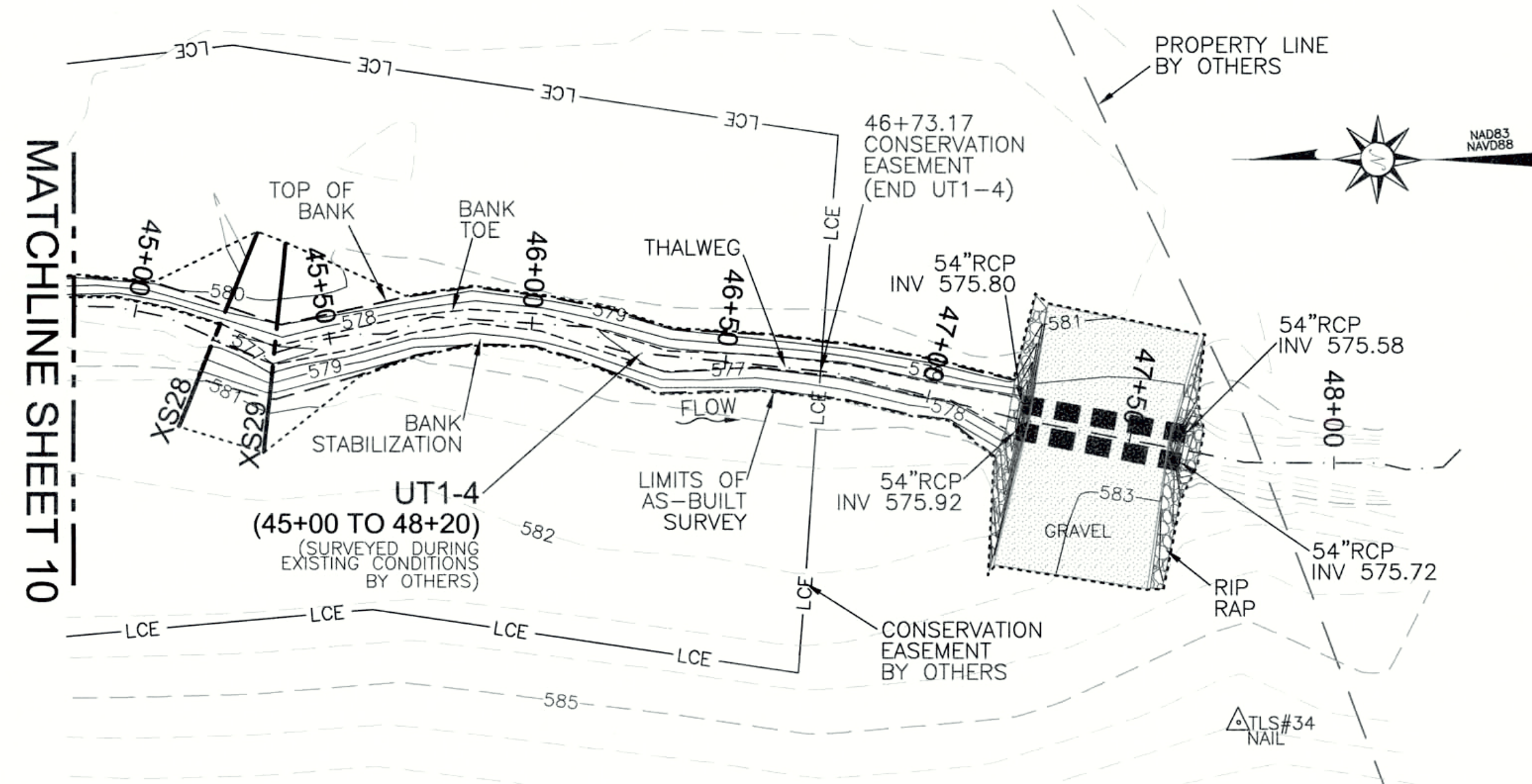
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DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**10 of 22**



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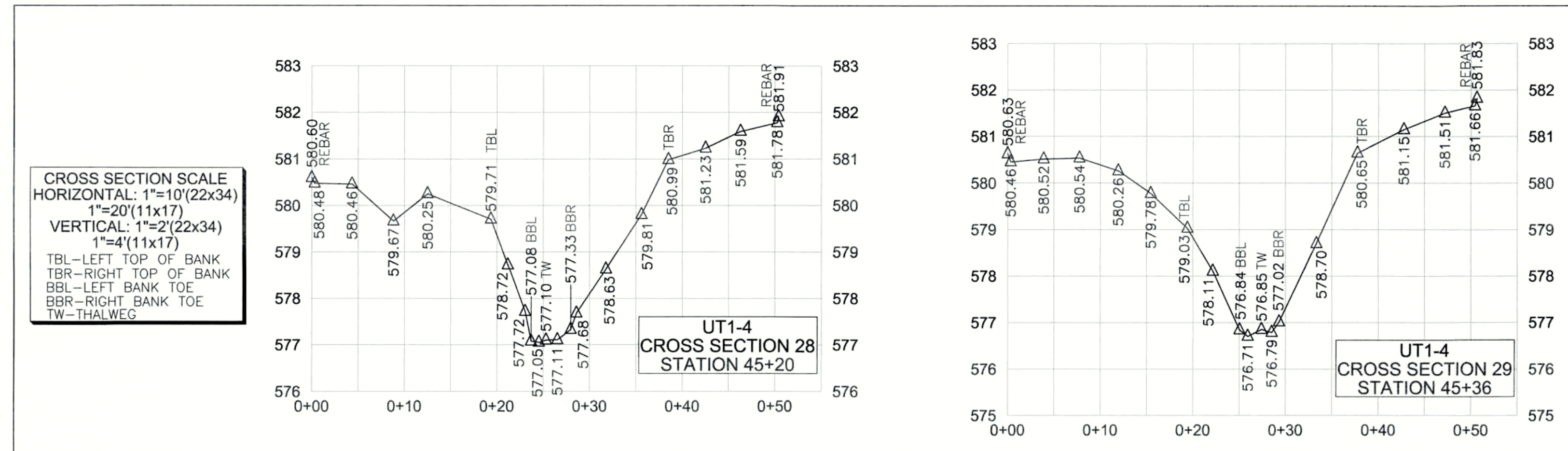
LEGEND:	
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--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
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--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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

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CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS28 RIGHTBANK	477500.71	1529742.83	581.91
XS28 LEFTBANK	477481.84	1529789.55	580.60
XS29 RIGHTBANK	477480.17	1529736.57	581.83
XS29 LEFTBANK	477475.00	1529786.93	580.63

REVISIONS, DATE AND INITIAL:

UT1-4 STA 45+00 TO 48+20

**POPLIN RIDGE STREAM RESTORATION PROJECT**

NCEEP PROJECT # 95359

UNION COUNTY

NORTH CAROLINA

MONROE

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RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified DRE/WBE



DATE: 04/27/2015

SURVEYED BY: DST/JAP/IDTH

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-14-029

FILE: POPLIN RIDGE\_95359\_AB\_TLS\_F

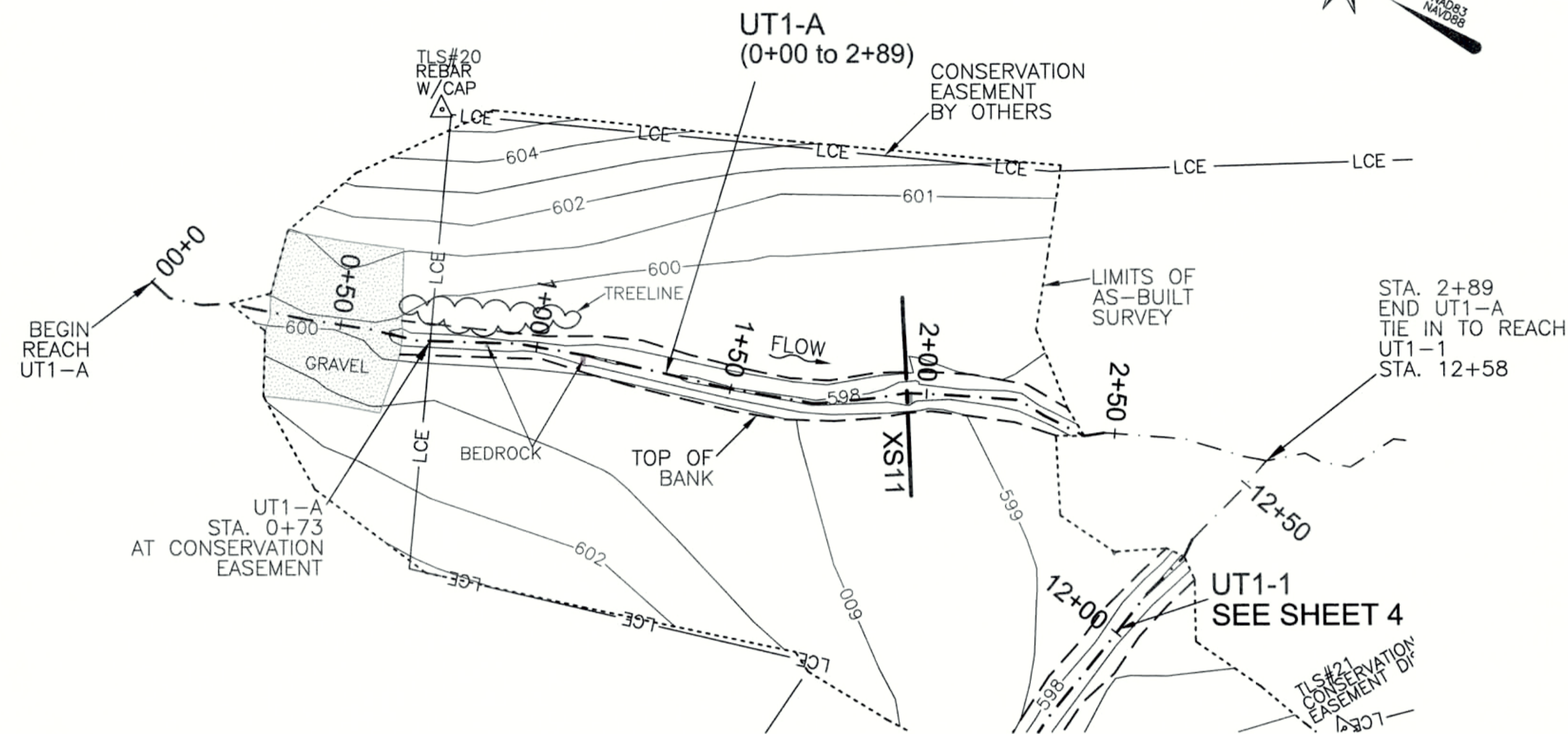
SCALE: AS SHOWN

SHEET 11 of 22



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 DAVID S. TURNER, P.L.S. #L-4551



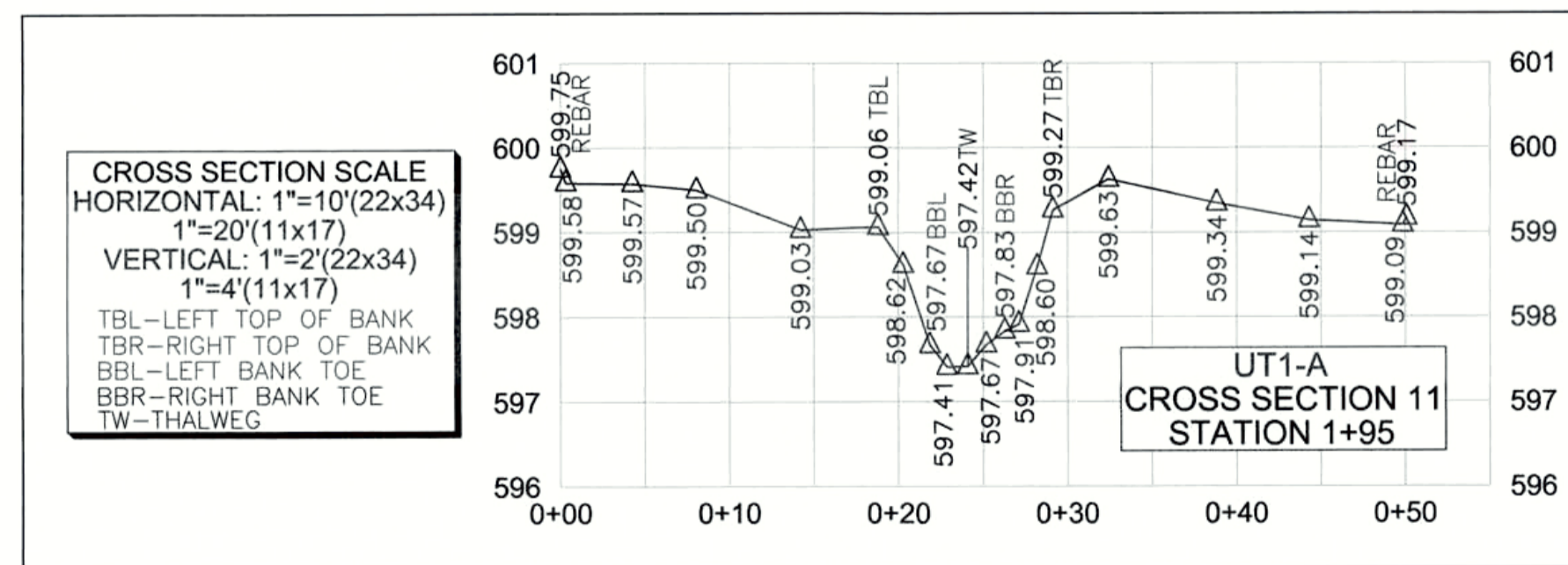
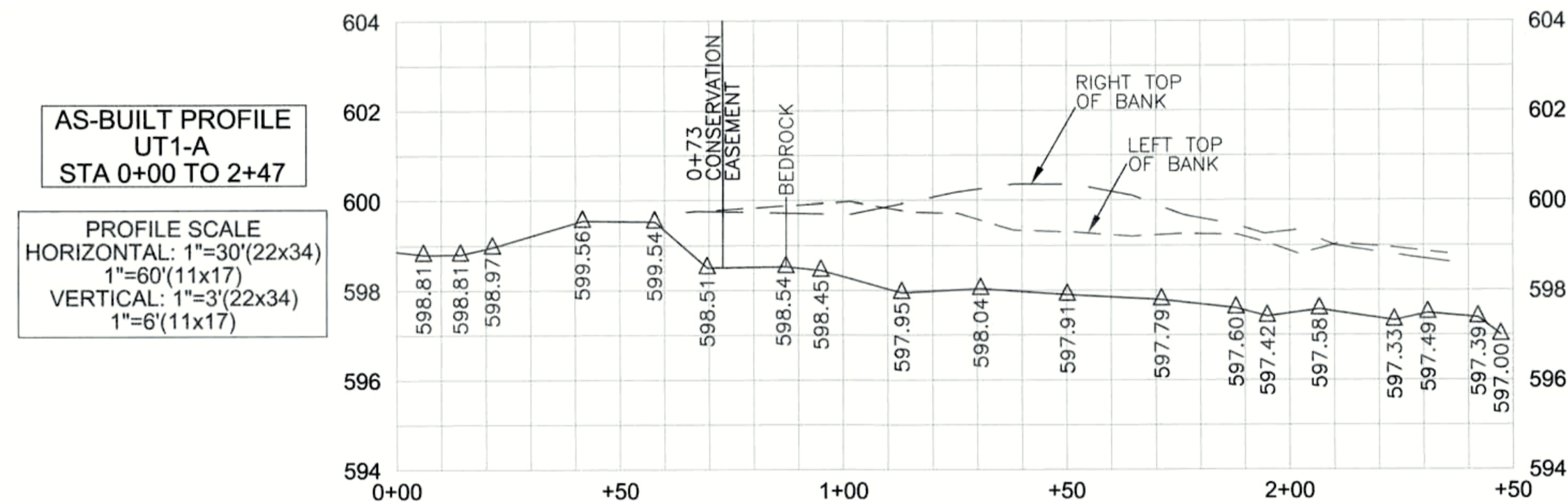
LEGEND:	
--- THALWEG	== FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE CONSERVATION EASEMENT	--- ROCK SILL
--- LIMITS OF AS-BUILT SURVEY	--- ROCK CROSS VANE
--- EX. THALWEG (BY OTHERS)	--- LIVE CUTTING BUNDLE/LIVE PLANTING
--- EX. PROPERTY LINE (NOT SURVEYED)	--- VP VEGETATION PLOT
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED APR. 2015

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

**GENERAL NOTES:**

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83/2007 AND VERTICAL DATUM IS NAVD88.
3. AS-BUILT SURVEY BASED ON EXISTING GPS CONTROL ESTABLISHED BY TURNER LAND SURVEYING FOR CONSTRUCTION AND VERIFIED DURING THE AS-BUILT SURVEYS. SEE CONTROL POINT LIST FOR COORDINATES.
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5. THE PURPOSE OF THIS MAP IS TO SHOW POST CONSTRUCTION CONDITIONS OF THE STREAM RESTORATION AND MAY NOT SHOW ALL EXISTING UTILITIES, STRUCTURES, AND BOUNDARIES.
6. NO PROPERTY RESEARCH WAS PERFORMED.



CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS11 RIGHTBANK	479727.89	1527895.16	599.17
XS11 LEFTBANK	479754.71	1527937.46	599.75

REVISIONS, DATE AND INITIAL:



3719 BENSON DRIVE  
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UT1-A STA 0+00 TO 2+89

**POPLIN RIDGE STREAM  
 RESTORATION PROJECT**  
 NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**12 of 22**



I, DAVID S. 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 19th DAY OF JULY, 2015.

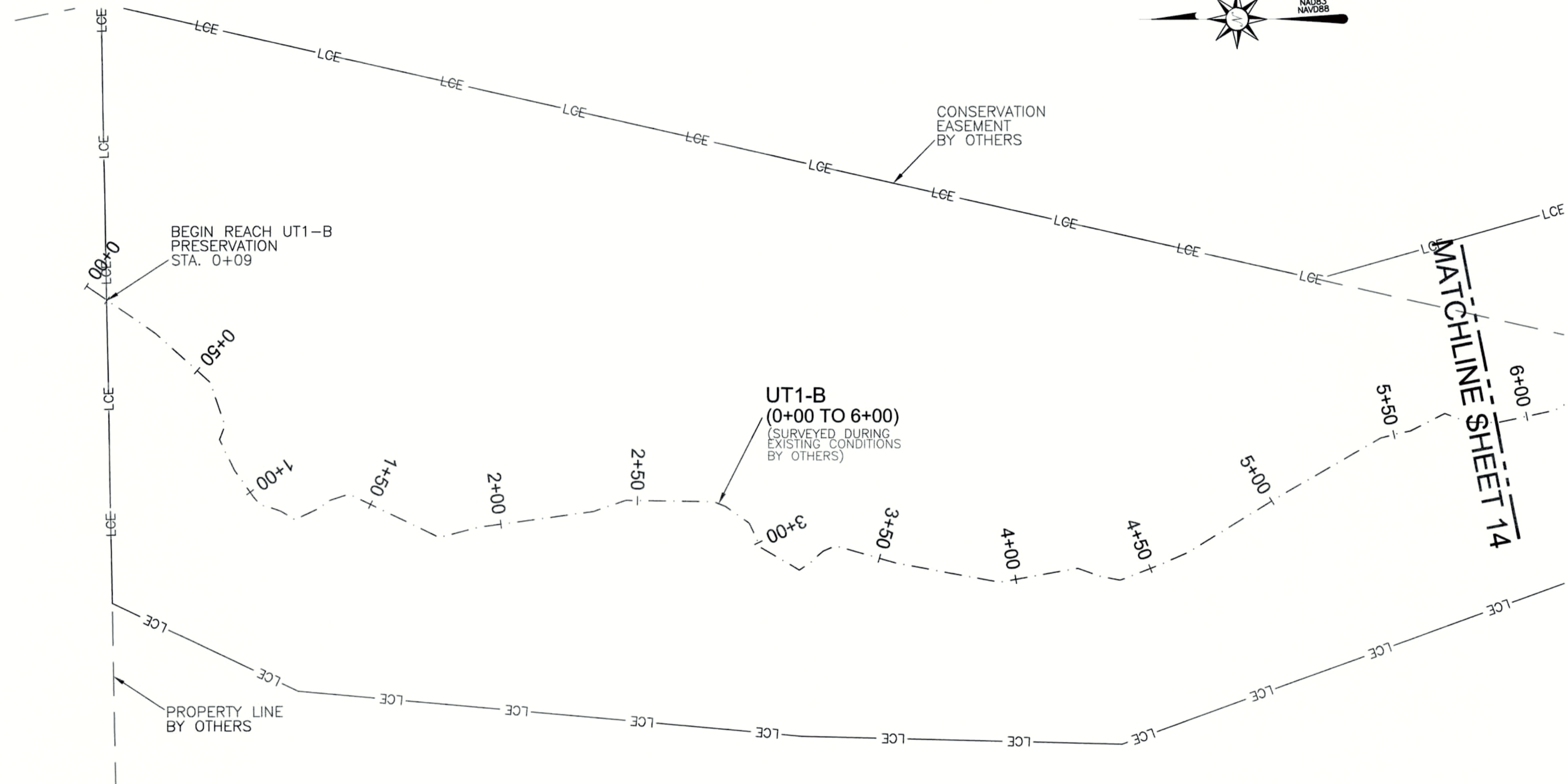
*David S. Turner*  
DAVID S. TURNER, P.L.S./#L-4551



LEGEND:			
	THALWEG		FLOODPLAIN SILL
	TOP OF BANK		ROCK STEP POOL
	BANK TOE		RIFFLE GRADE CONTROL
	LCE CONSERVATION EASEMENT		ROCK SILL
	LIMITS OF AS-BUILT SURVEY		ROCK CROSS VANE
	EX. THALWEG (BY OTHERS)		LIVE CUTTING BUNDLE/ LIVE PLANTING
	EX. PROPERTY LINE (NOT SURVEYED)		VP VEGETATION PLOT
	BEDROCK		
	RIP RAP		
	LOG STRUCTURE		
	LOG GRADE CONTROL STRUCTURE		

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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



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REVISIONS, DATE AND INITIAL:

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NORTH CAROLINA

UNION COUNTY

MONROE

UT1-B STA 0+00 TO 6+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

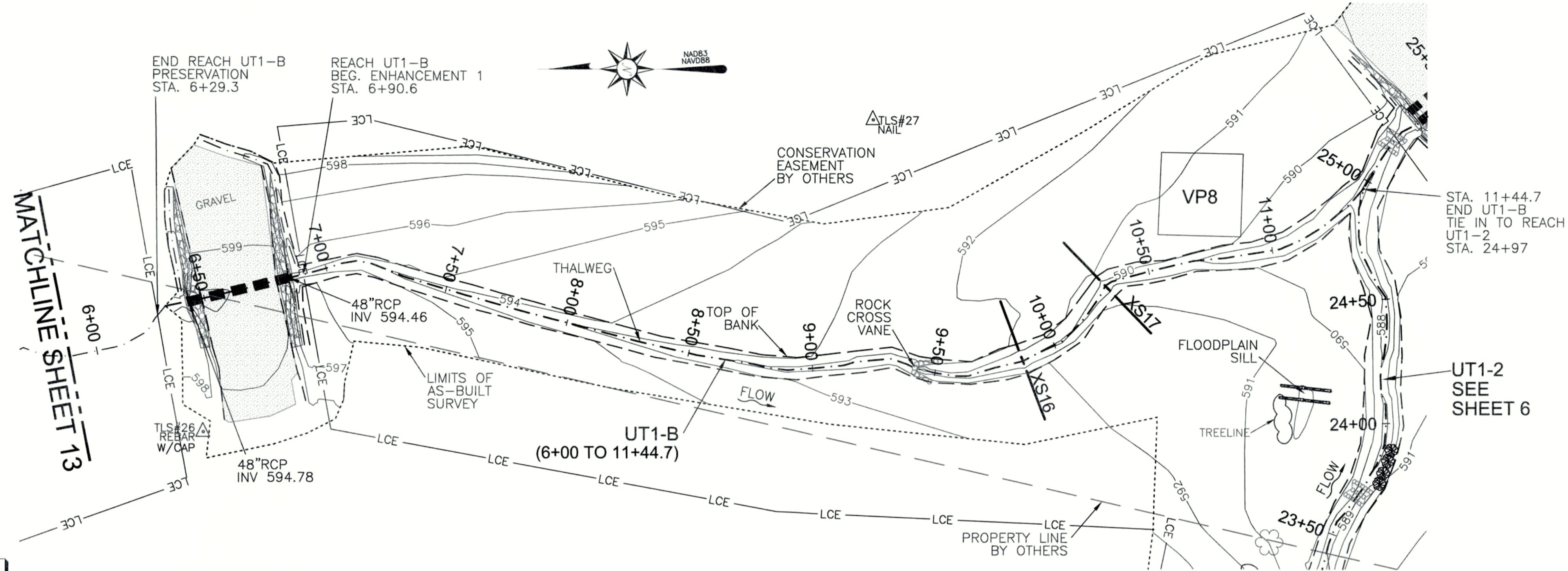
DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**13 of 22**



I, DAVID S. 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 19th DAY OF JULY, 2015.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551

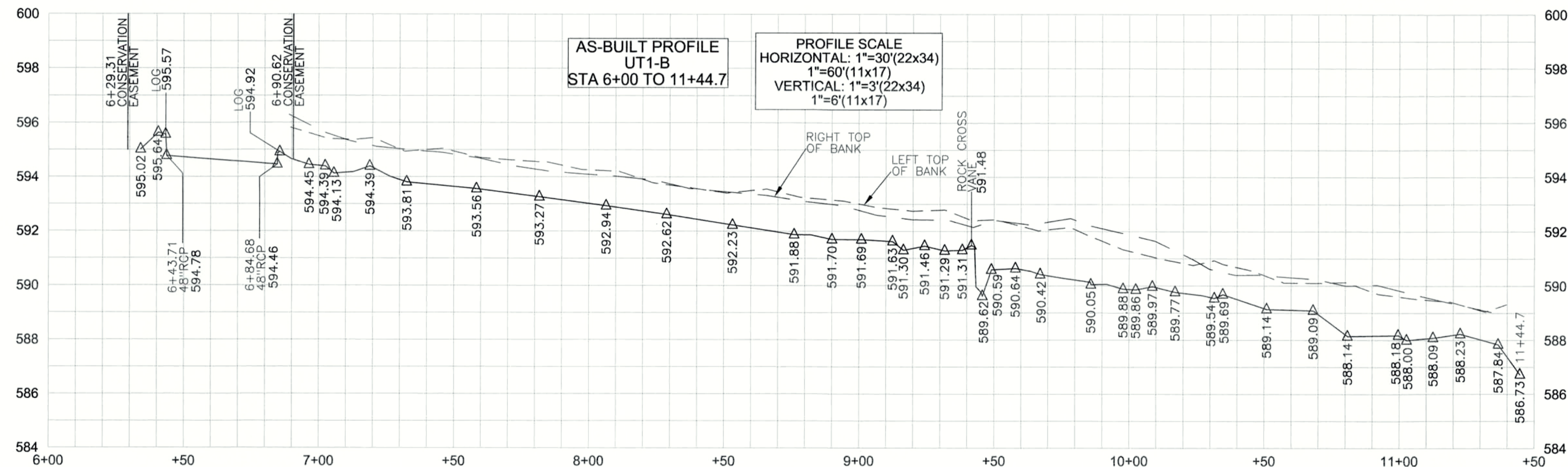


**LEGEND:**

--- THALWEG	--- FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE CONSERVATION EASEMENT	--- ROCK SILL
--- LIMITS OF AS-BUILT SURVEY	--- ROCK CROSS VANE
--- EX. THALWEG (BY OTHERS)	--- LIVE CUTTING BUNDLE/LIVE PLANTING
--- EX. PROPERTY LINE (NOT SURVEYED)	--- VP VEGETATION PLOT
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

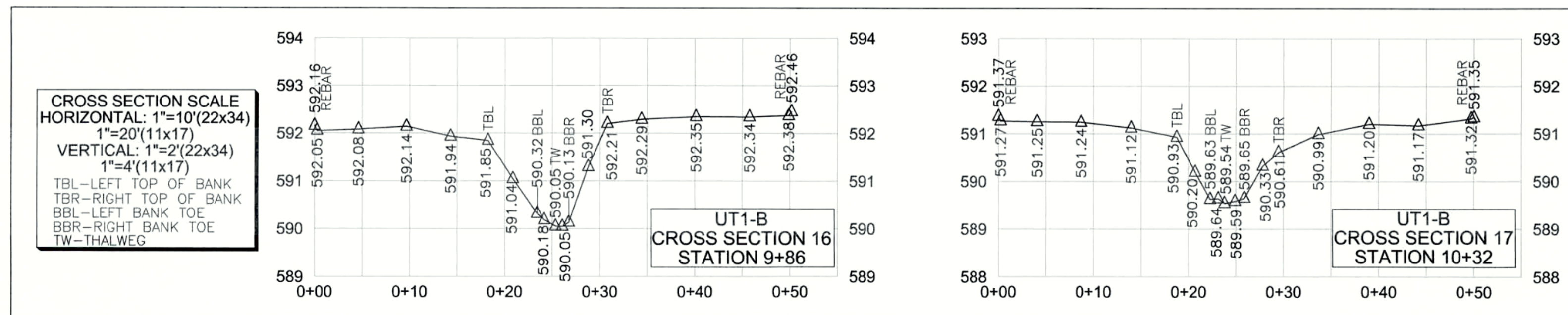
SCALE: 1"=30' (22x34)  
1"=60' (11x17)  
CONTOUR INTERVAL = 1'



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CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS16 RIGHTBANK	479232.71	1528772.08	592.46
XS16 LEFTBANK	479250.57	1528818.96	592.16
XS17 RIGHTBANK	479190.60	1528806.43	591.35
XS17 LEFTBANK	479225.35	1528842.38	591.37



UT1-B STA 6+00 TO 11+44.7

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

UNION COUNTY

MONROE

NORTH CAROLINA

REVISIONS, DATE AND INITIAL:



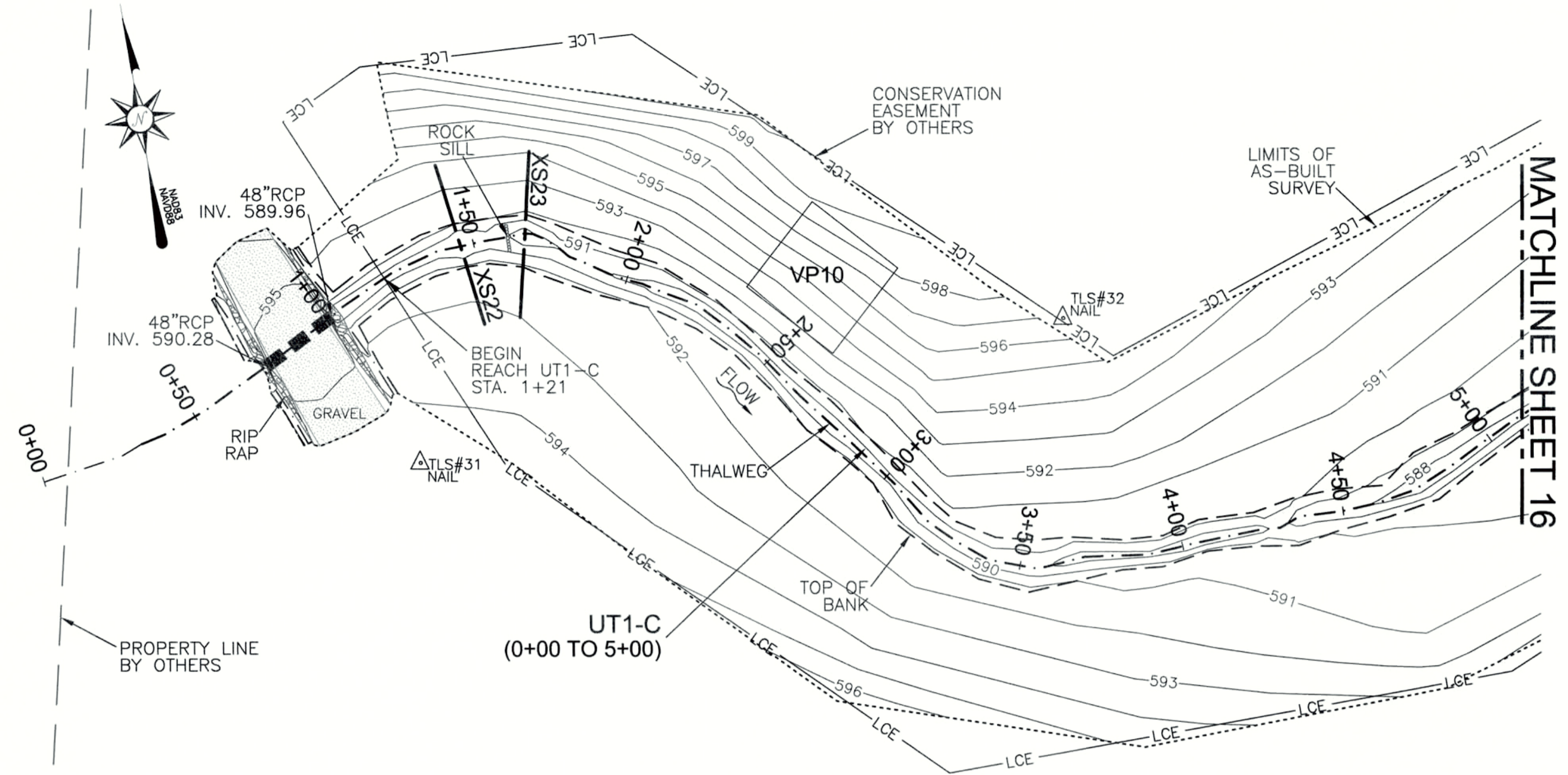
3719 BENSON DRIVE  
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Certified DBE/WBE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS.F
SCALE:	AS SHOWN
SHEET	14 of 22



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David S. Turner  
DAVID S. TURNER, P.L.S. #L-4551



**LEGEND:**

--- THALWEG	== FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
--- CONSERVATION EASEMENT	--- ROCK CROSS VANE
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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

SCALE: 1"=30' (22x34)  
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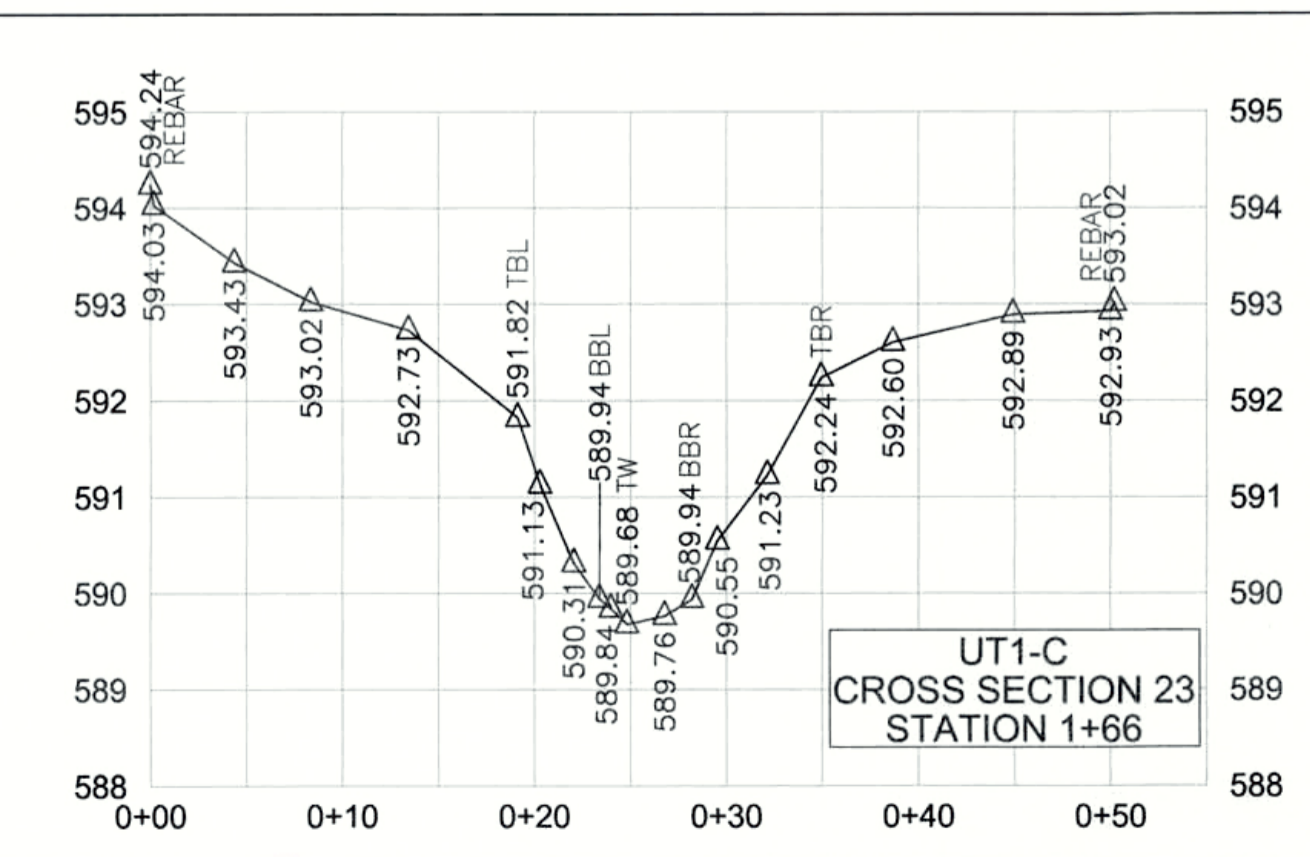
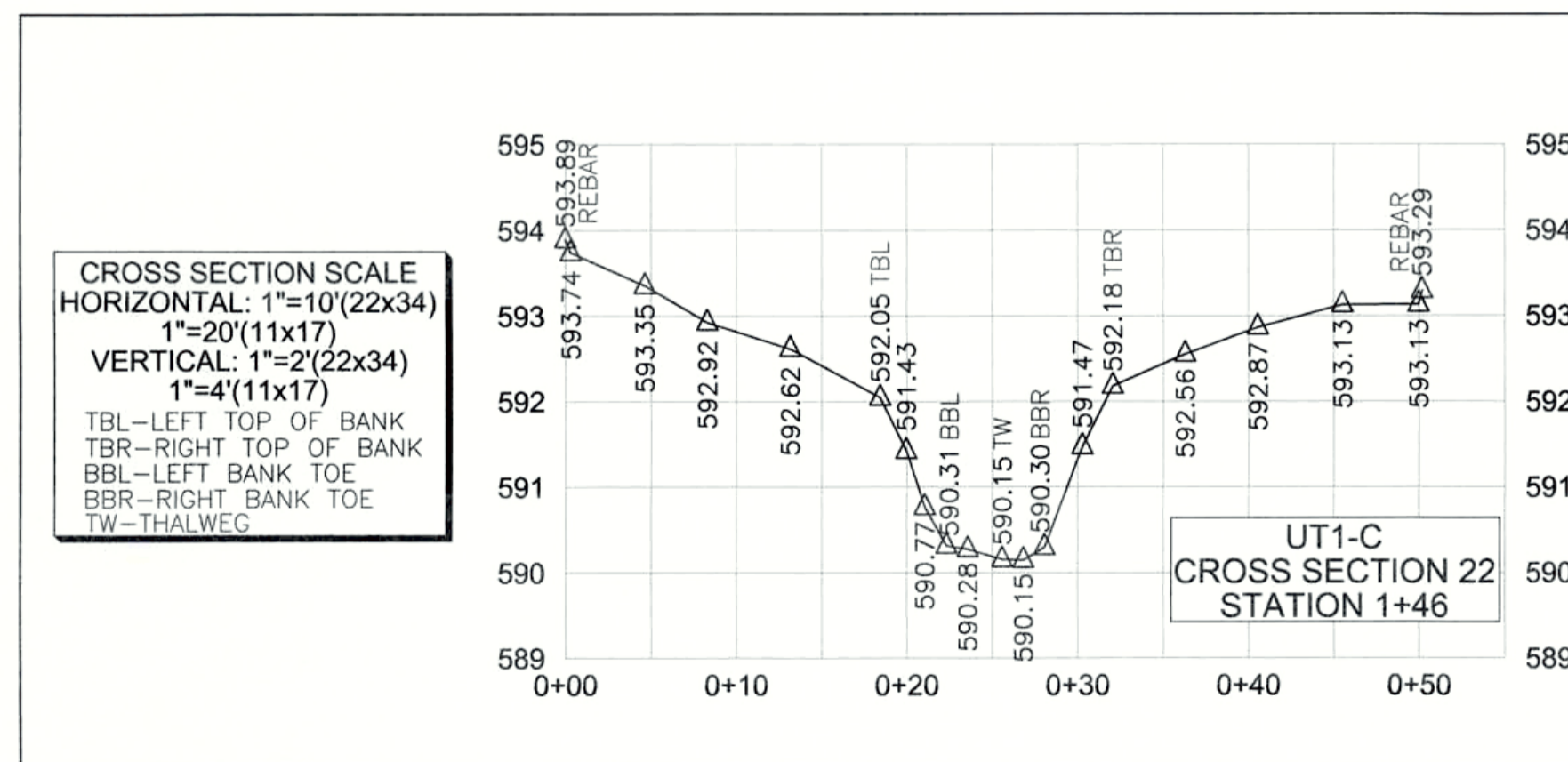


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CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS22 RIGHTBANK	478320.33	1528663.38	593.29
XS22 LEFTBANK	478370.09	1528657.00	593.89
XS23 RIGHTBANK	478320.41	1528674.32	593.02
XS23 LEFTBANK	478369.34	1528685.68	594.24



UT1-C STA 0+00 TO 5+00  
**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

REVISIONS, DATE AND INITIAL:

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/IDTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS.F
SCALE:	AS SHOWN

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NORTH CAROLINA

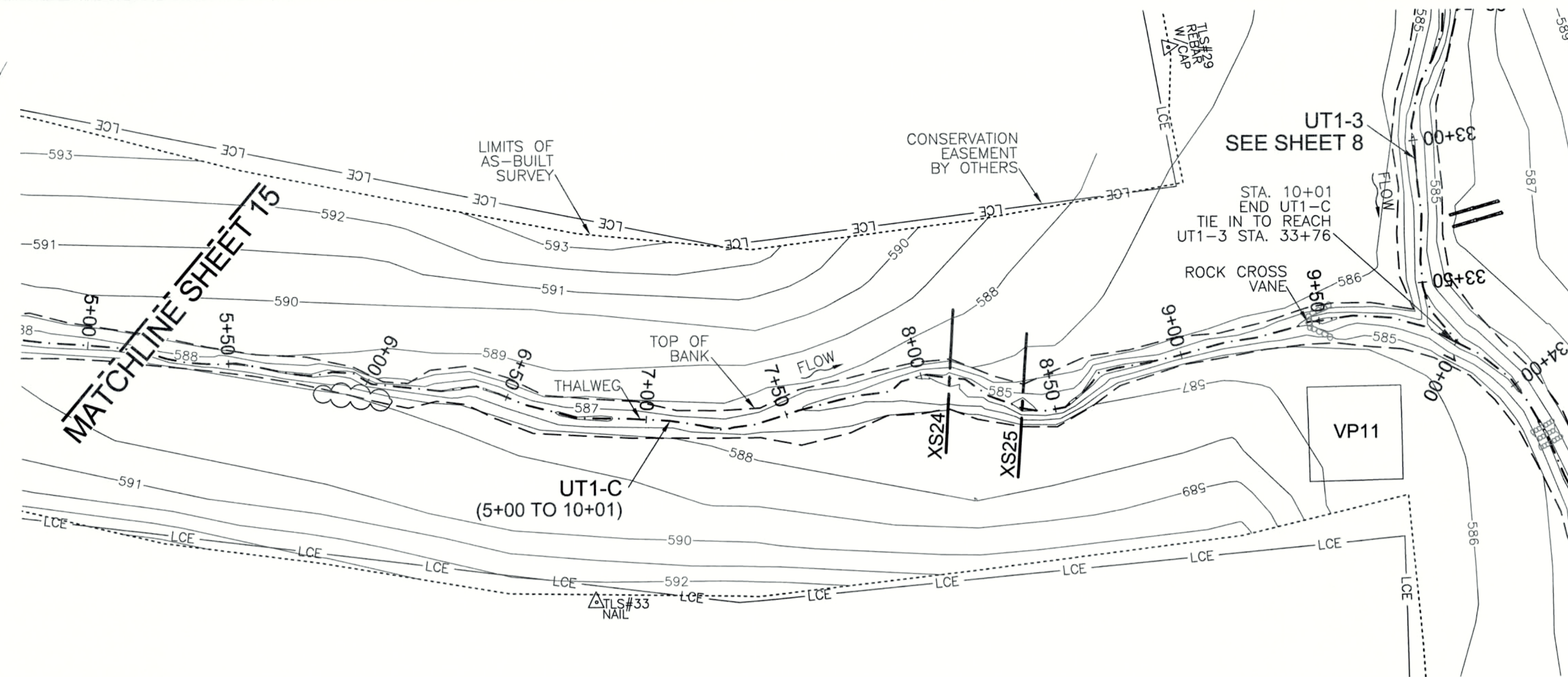
UNION COUNTY

MONROE



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DAVID S. TURNER, P.L.S. #L-4551

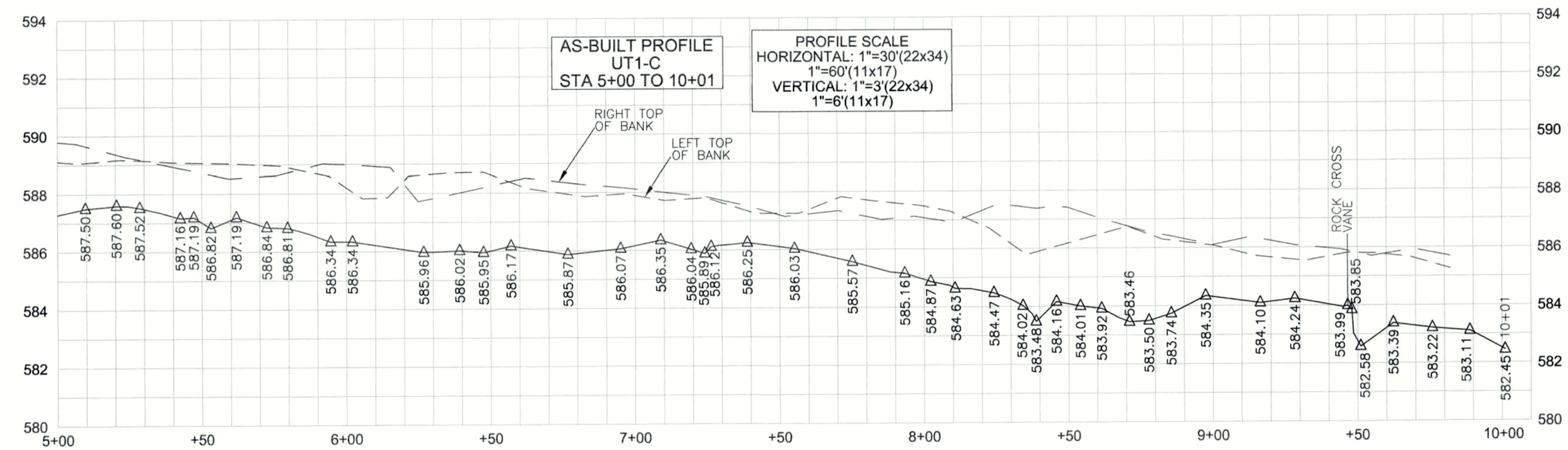


LEGEND:	
--- THALWEG	== FLOODPLAIN SILL
- - - TOP OF BANK	⊕ ROCK STEP POOL
- - - BANK TOE	⊕ RIFFLE GRADE CONTROL
- - - LCE	⊕ ROCK SILL
- - - CONSERVATION EASEMENT	⊕ ROCK CROSS VANE
- - - LIMITS OF AS-BUILT SURVEY	⊕ LIVE CUTTING BUNDLE/LIVE PLANTING
- - - EX. THALWEG (BY OTHERS)	⊕ VEGETATION PLOT
- - - EX. PROPERTY LINE (NOT SURVEYED)	
▨ BEDROCK	
▨ RIP RAP	
▨ LOG STRUCTURE	
▨ LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

30' 0' 30' 60'

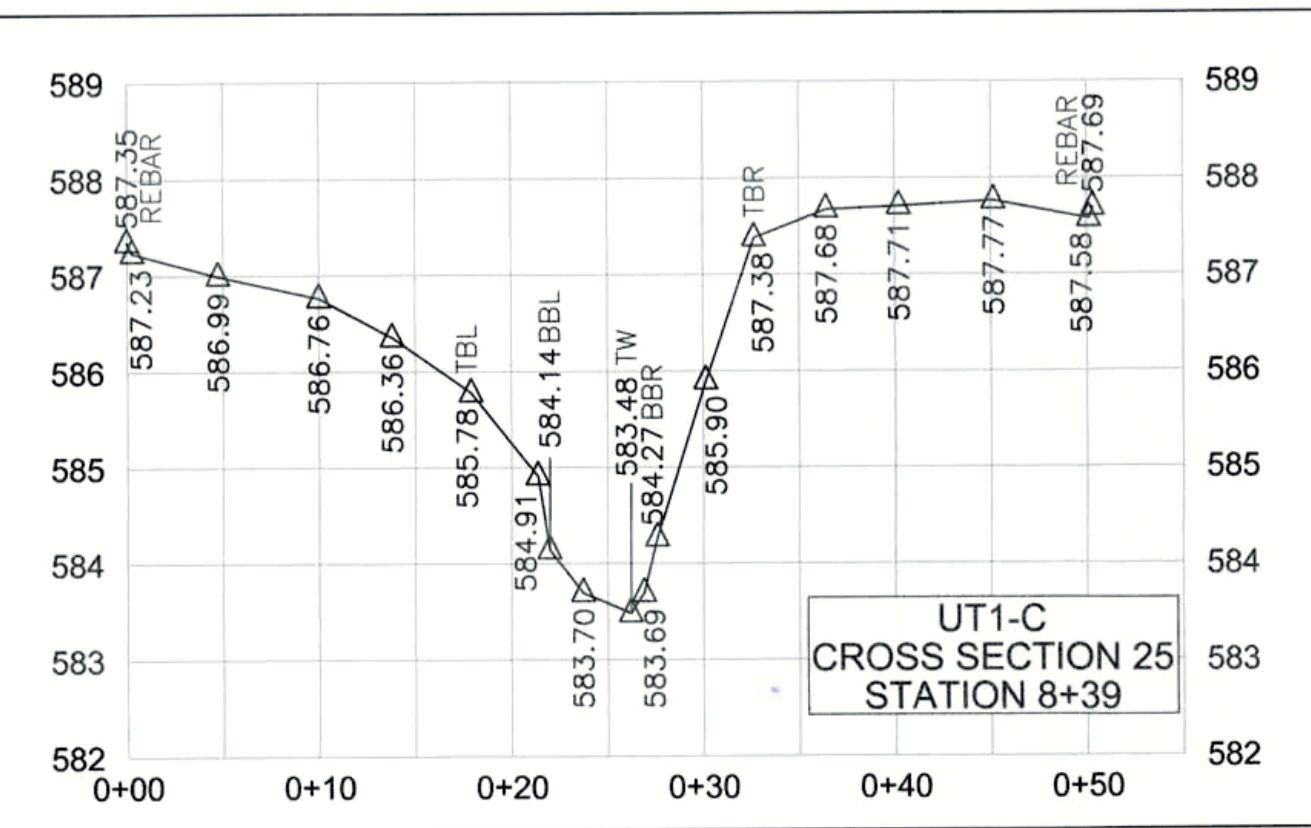
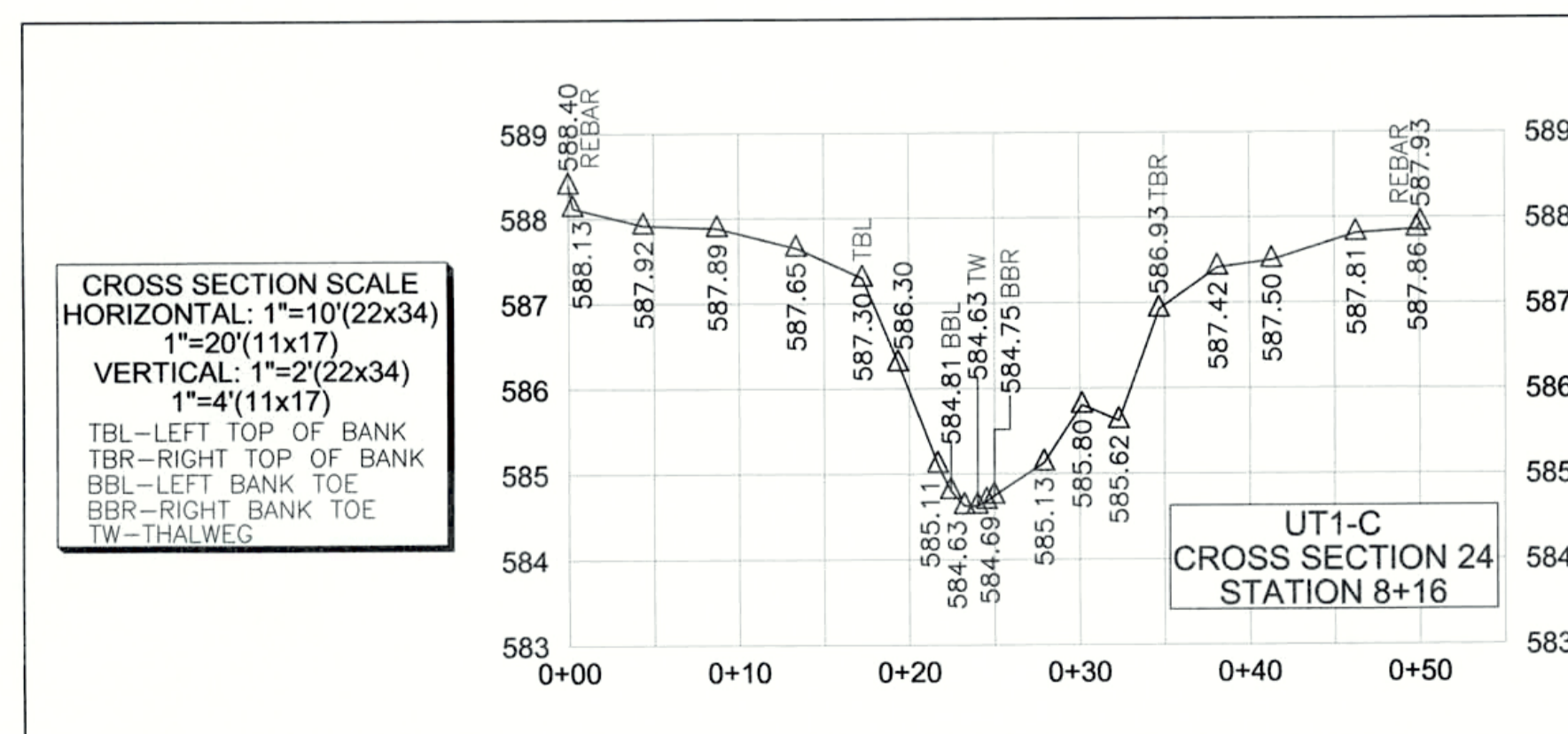
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CONTOUR INTERVAL = 1'



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CROSS SECTION REBAR COORDINATES:			
Description	Northing	Eastng	Elevation
XS24 RIGHTBANK	478349.98	1529236.23	587.93
XS24 LEFTBANK	478394.64	1529213.57	588.40
XS25 RIGHTBANK	478355.13	1529262.46	587.69
XS25 LEFTBANK	478400.26	1529240.18	587.35



REVISIONS, DATE AND INITIAL:

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UT1-C STA 5+00 TO 10+01

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

NORTH CAROLINA UNION COUNTY MONROE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN



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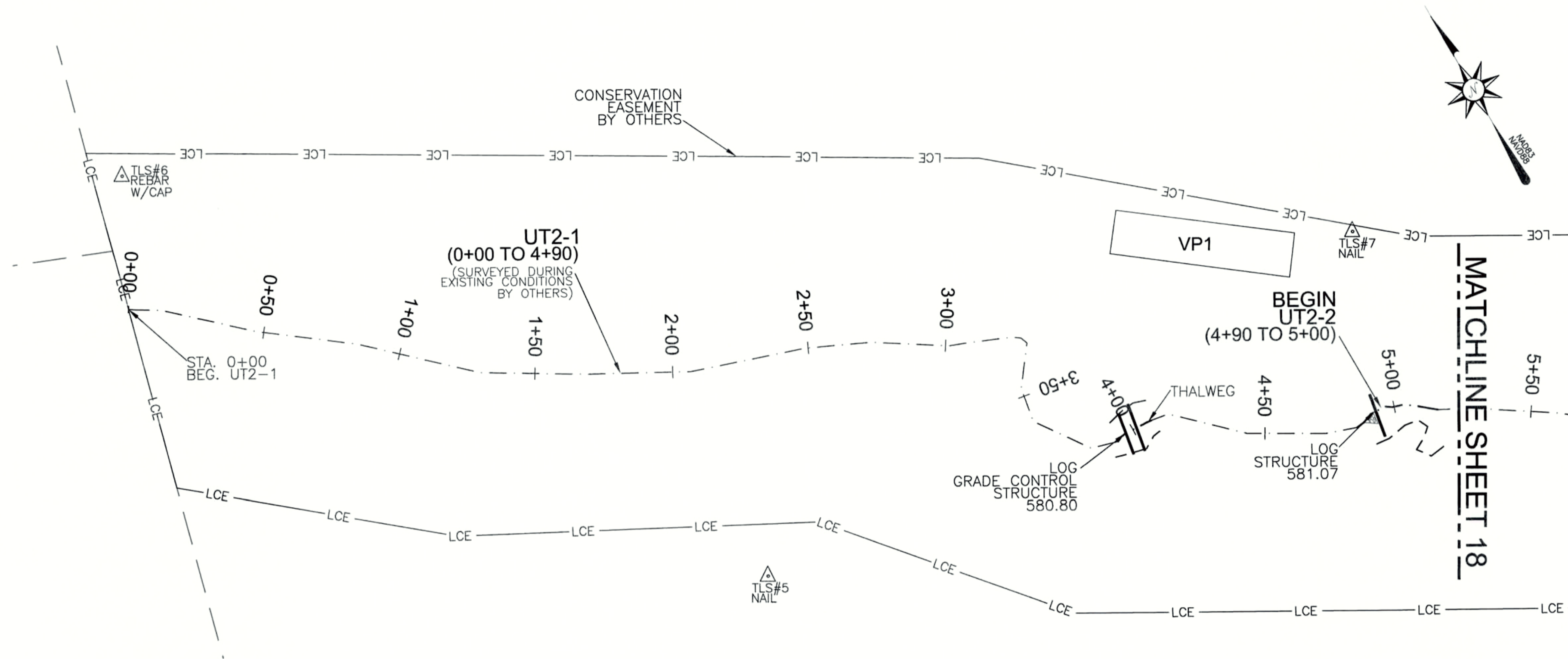
*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
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- - - TOP OF BANK	⊠ ROCK STEP POOL
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UT2-1 STA 0+00 TO 5+00  
**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359  
UNION COUNTY  
NORTH CAROLINA  
MONROE

DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
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PROJECT:	TLS-14-029
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SHEET  
**17 of 22**



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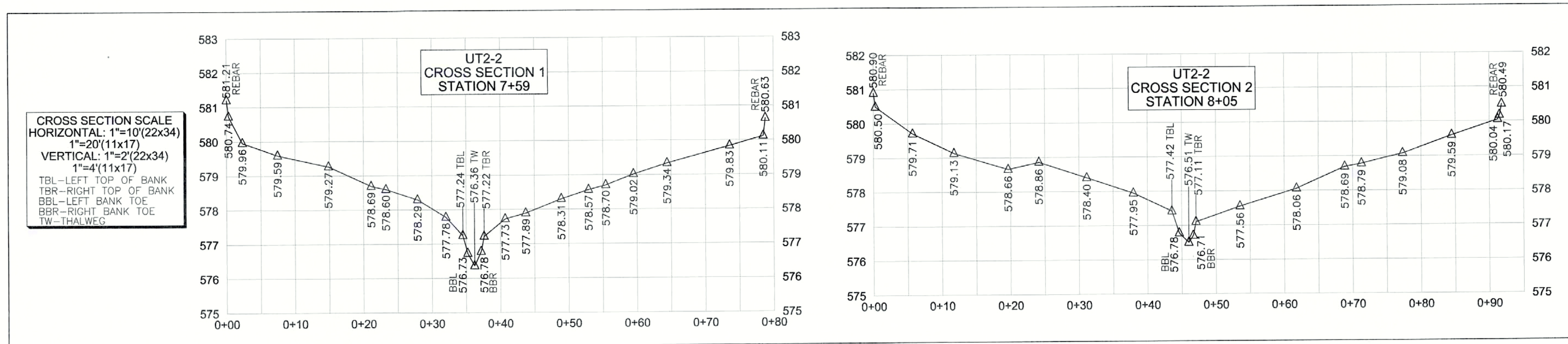
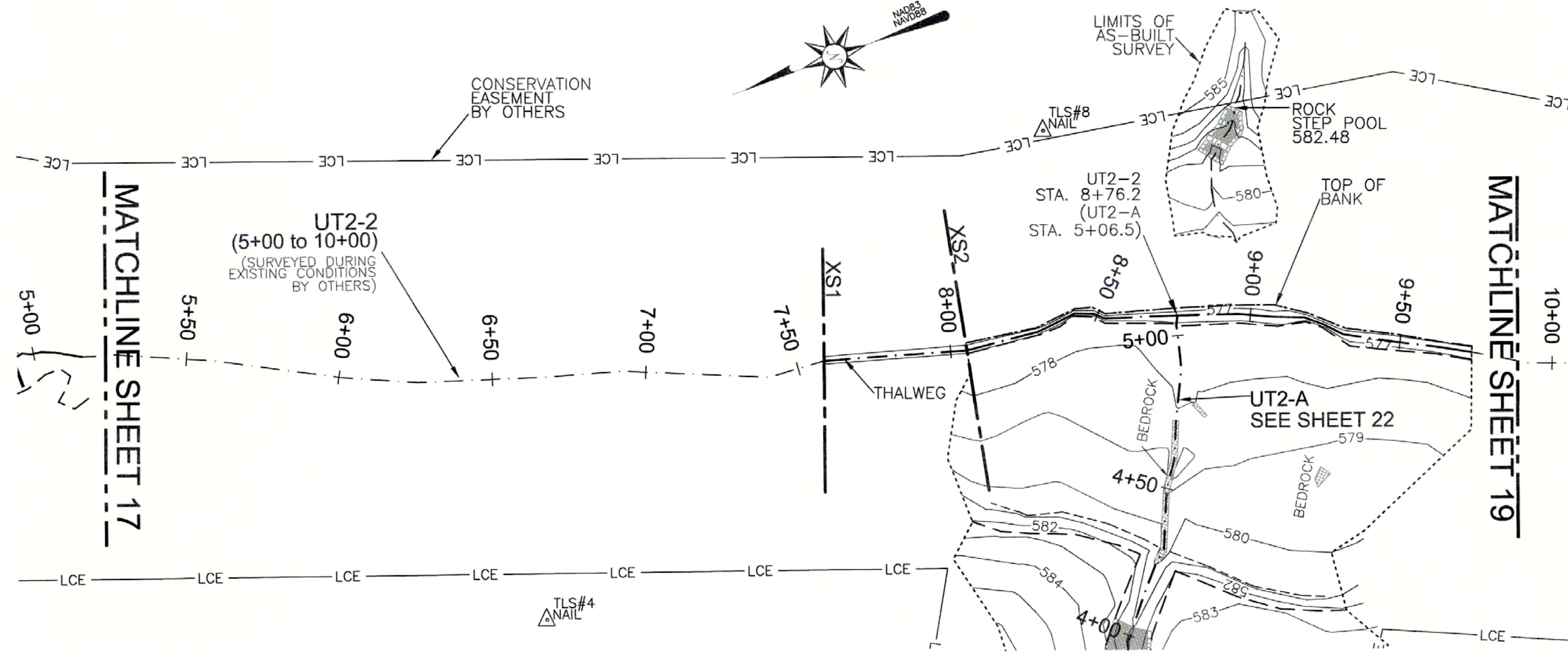
David S. Turner  
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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

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



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

TBL-LEFT TOP OF BANK  
TBR-RIGHT TOP OF BANK  
BBL-LEFT BANK TOE  
BBR-RIGHT BANK TOE  
TW-THALWEG

CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS1 RIGHTBANK	479457.66	1532518.35	580.63
XS1 LEFTBANK	479431.07	1532592.51	581.21
XS2 RIGHTBANK	479407.52	1532500.51	580.49
XS2 LEFTBANK	479389.68	1532590.55	580.90

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UNION COUNTY

MONROE

UT2-2 STA 5+00 TO 10+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

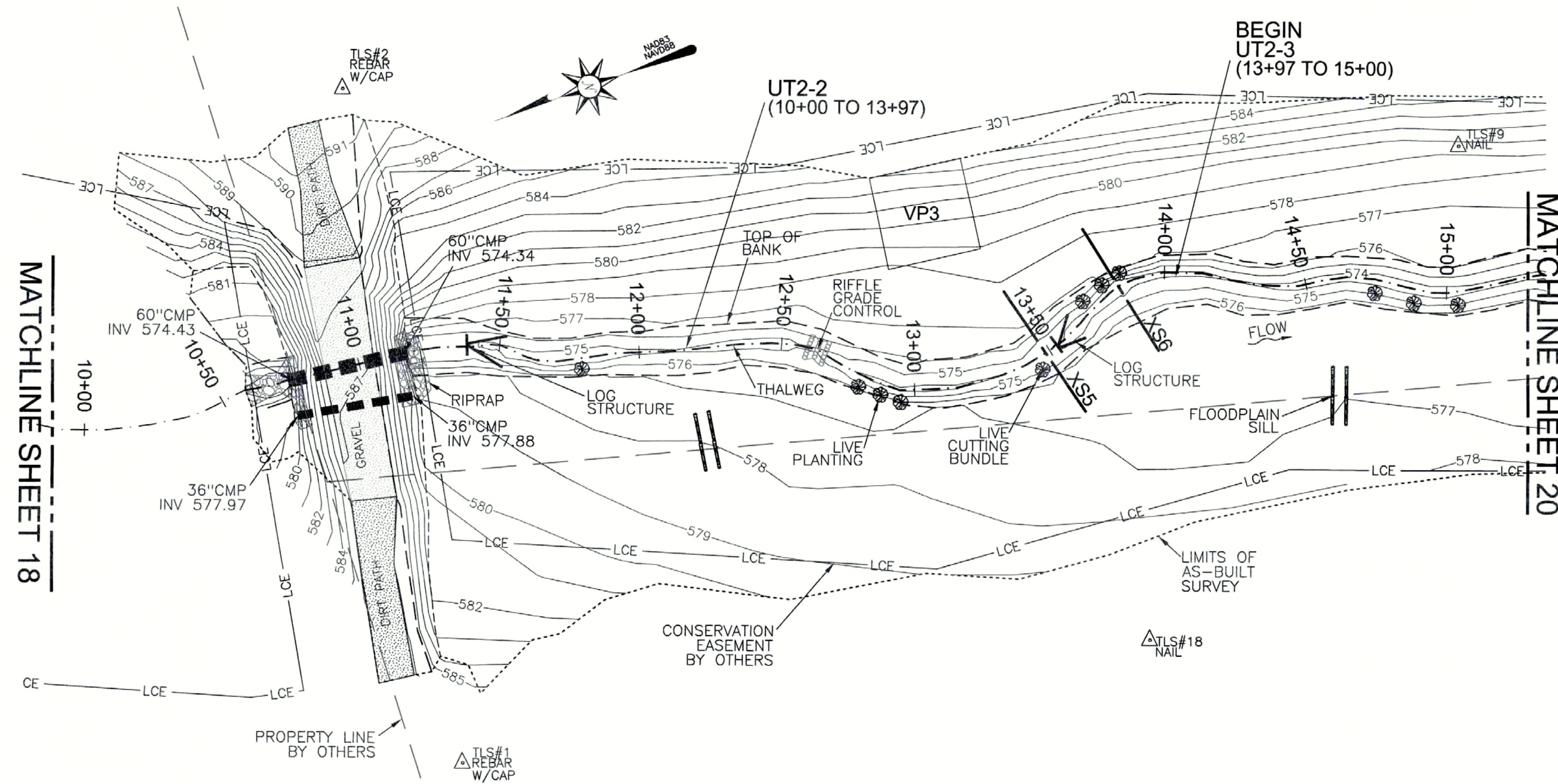
DATE:	04/27/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-029
FILE:	POPLIN RIDGE_95359_AB_TLS_F
SCALE:	AS SHOWN

SHEET  
**18 of 22**



I, DAVID S. 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 19th DAY OF JULY, 2015.

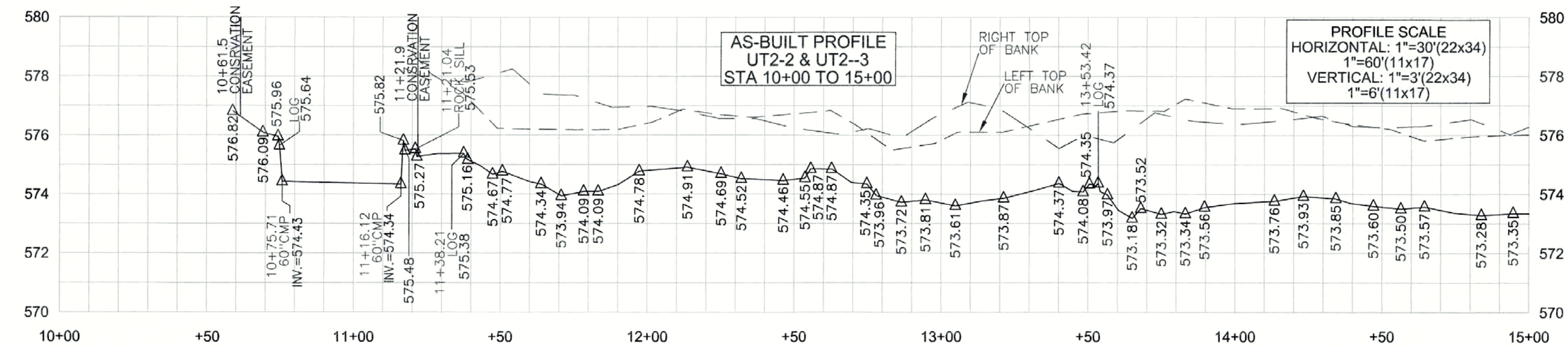
*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
--- THALWEG	== FLOODPLAIN SILL
--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
--- CONSERVATION EASEMENT	--- ROCK CROSS VANE
--- LIMITS OF AS-BUILT SURVEY	--- LIVE CUTTING BUNDLE/LIVE PLANTING
--- EX. THALWEG (BY OTHERS)	--- VP VEGETATION PLOT
--- EX. PROPERTY LINE (NOT SURVEYED)	
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

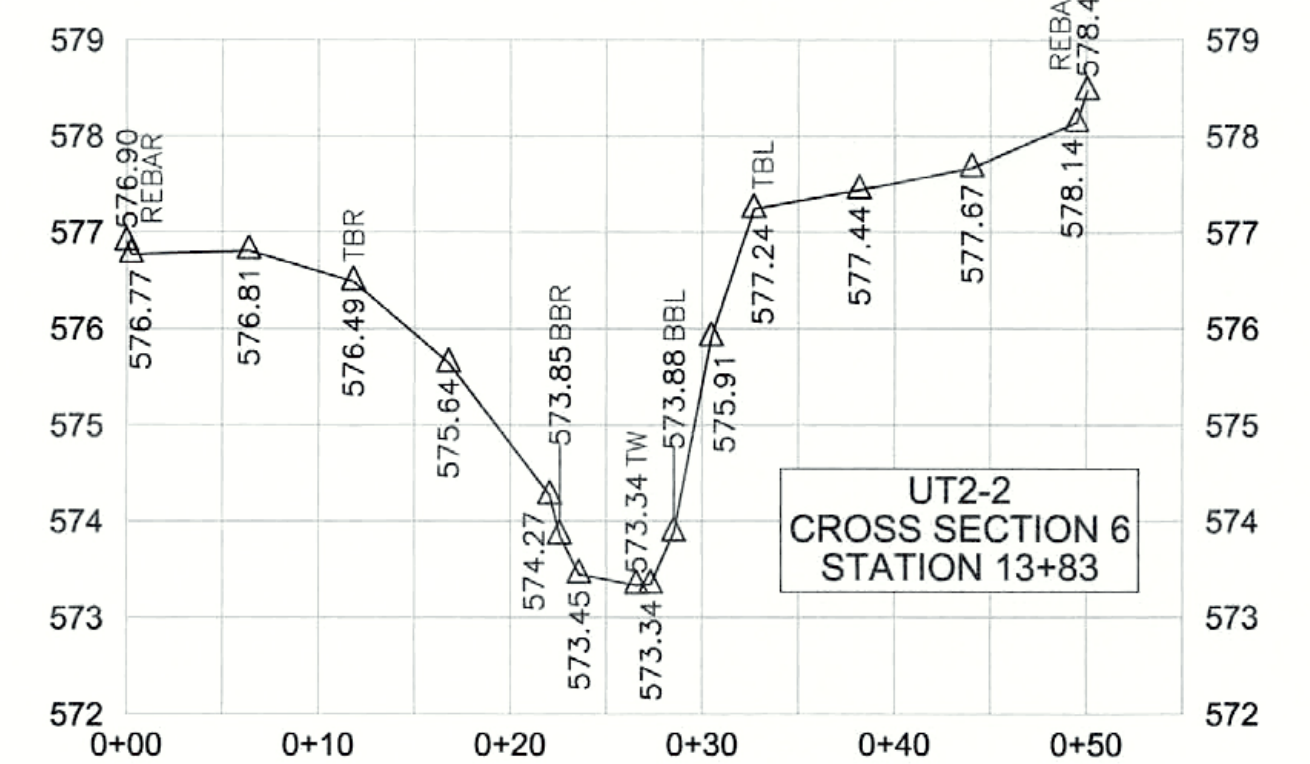
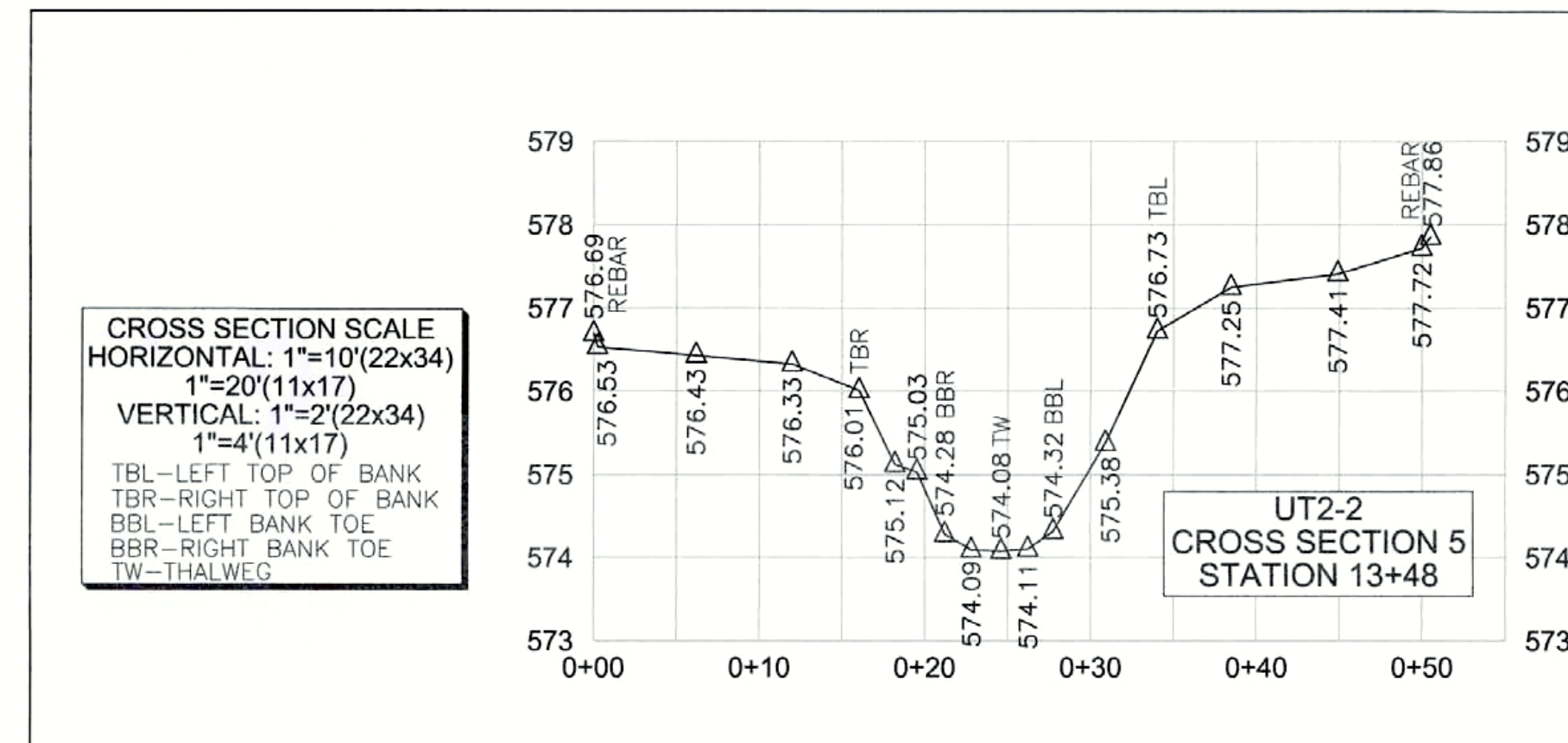
SCALE: 1"=30' (22x34)  
1"=60' (11x17)  
CONTOUR INTERVAL = 1'



**GENERAL NOTES:**

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83/2007 AND VERTICAL DATUM IS NAVD88.
3. AS-BUILT SURVEY BASED ON EXISTING GPS CONTROL ESTABLISHED BY TURNER LAND SURVEYING FOR CONSTRUCTION AND VERIFIED DURING THE AS-BUILT SURVEYS. SEE CONTROL POINT LIST FOR COORDINATES.
4. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
5. THE PURPOSE OF THIS MAP IS TO SHOW POST CONSTRUCTION CONDITIONS OF THE STREAM RESTORATION AND MAY NOT SHOW ALL EXISTING UTILITIES, STRUCTURES, AND BOUNDARIES.
6. NO PROPERTY RESEARCH WAS PERFORMED.

CROSS SECTION REBAR COORDINATES:		
Description	Northing	Easting
XS5 RIGHTBANK	478890.32	1532362.00
XS5 LEFTBANK	478902.93	1532410.92
XS6 RIGHTBANK	478859.09	1532373.15
XS6 LEFTBANK	478869.73	1532422.06



UT2-2 & UT2-3 STA 10+00 TO 15+00  
**POPLIN RIDGE STREAM RESTORATION PROJECT**  
NCEEP PROJECT # 95359

REVISIONS, DATE AND INITIAL:



3719 BENSON DRIVE  
RALEIGH, NC 27609  
P-0702 (919) 827-0745  
www.turnerlandsurveying.com  
Certified DBE/WBE

NORTH CAROLINA

UNION COUNTY

MONROE

DATE: 04/27/2015

SURVEYED BY: DST/JAP/DTH

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-14-029

FILE: POPLIN RIDGE\_95359\_AB\_TLS\_F

SCALE: AS SHOWN

SHEET

19 of 22



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*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551

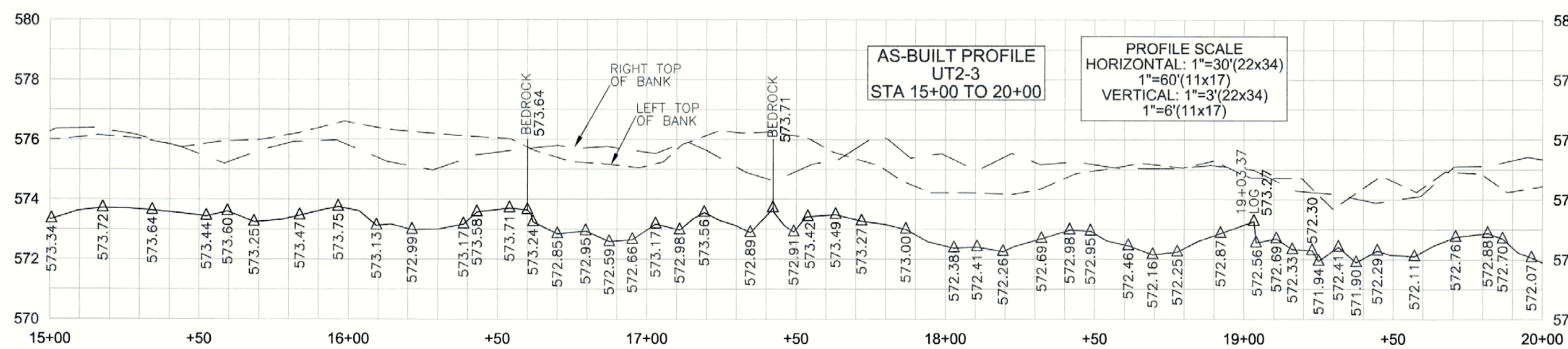
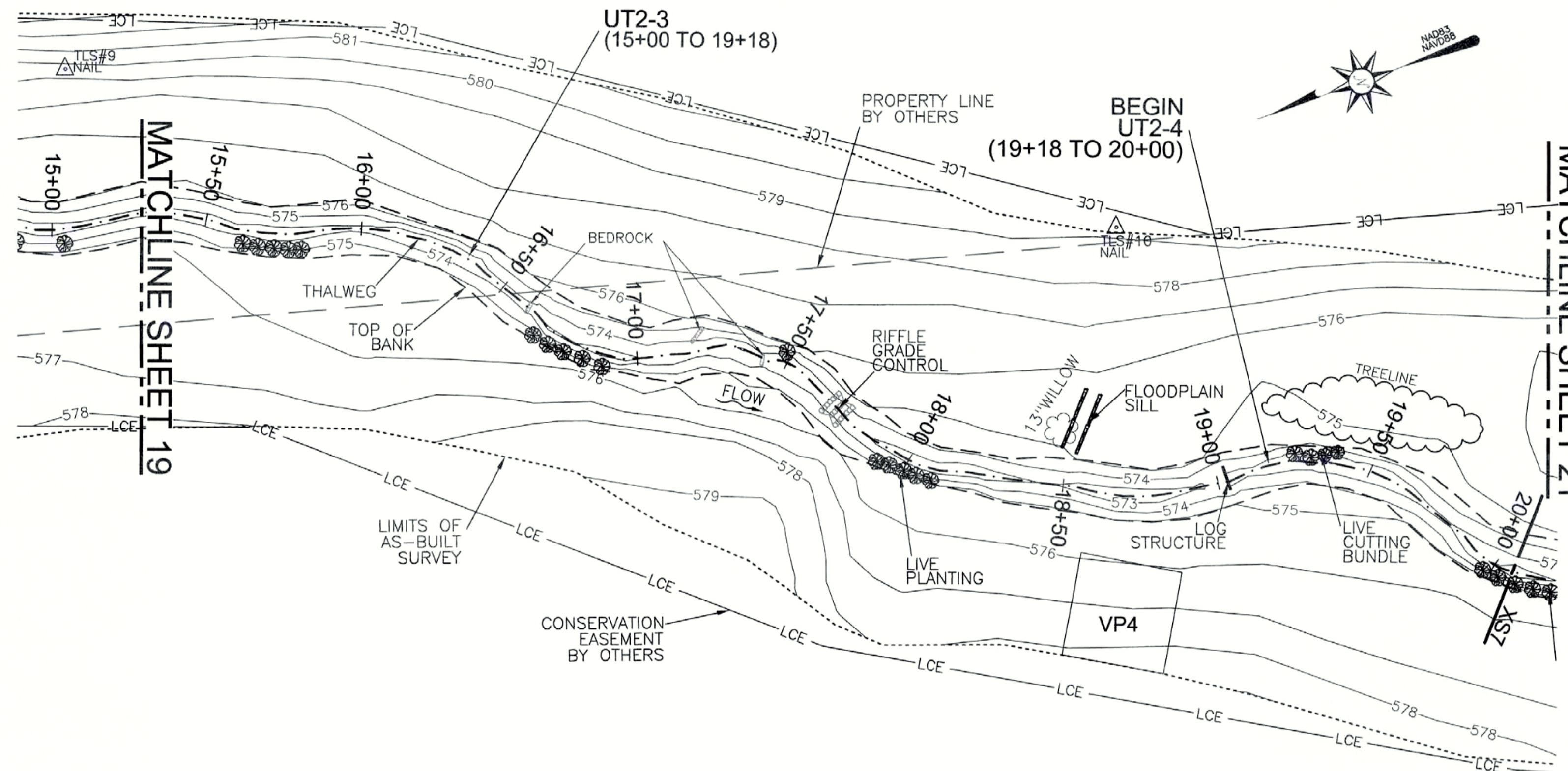


LEGEND:	
--- THALWEG	== FLOODPLAIN SILL
- - - TOP OF BANK	⊠ ROCK STEP POOL
- - - BANK TOE	⊠ RIFFLE GRADE CONTROL
- - - LCE	⊠ ROCK SILL
- - - CONSERVATION EASEMENT	⊠ ROCK CROSS VANE
- - - LIMITS OF AS-BUILT SURVEY	⊠ LIVE CUTTING BUNDLE/ LIVE PLANTING
- - - EX. THALWEG (BY OTHERS)	VP VEGETATION PLOT
- - - EX. PROPERTY LINE (NOT SURVEYED)	
▨ BEDROCK	
▨ RIP RAP	
▨ LOG STRUCTURE	
▨ LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

SCALE: 1"=30' (22x34)  
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CONTOUR INTERVAL = 1'

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REVISIONS, DATE AND INITIAL:

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UT2-3 & UT2-4 STA 15+00 TO 20+00

**POPLIN RIDGE STREAM RESTORATION PROJECT**

NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE: 04/27/2015

SURVEYED BY: DST/JAP/DTH

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-14-029

FILE: POPLIN RIDGE\_95359\_AB\_TLS\_F

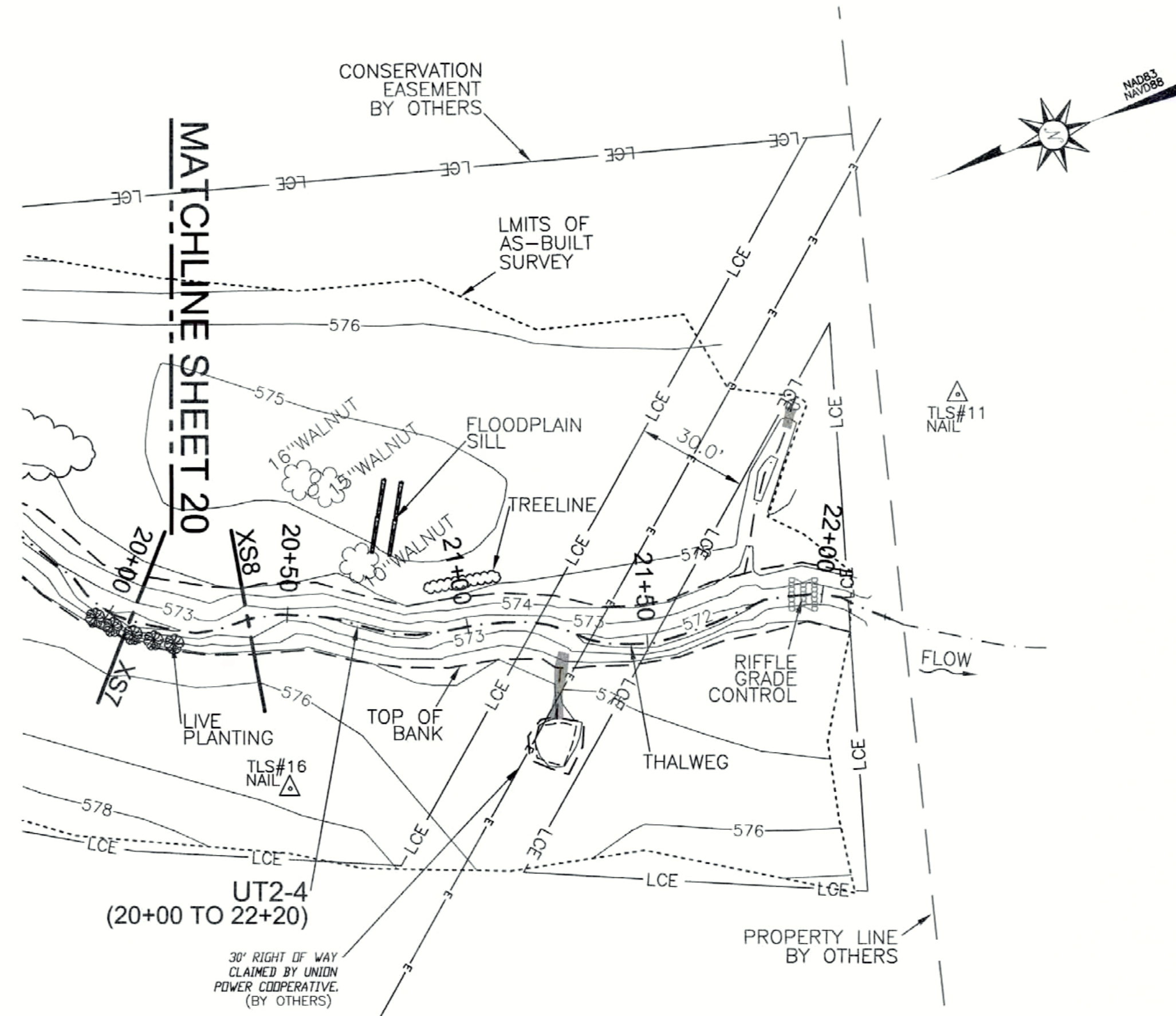
SCALE: AS SHOWN

SHEET  
**20 of 22**

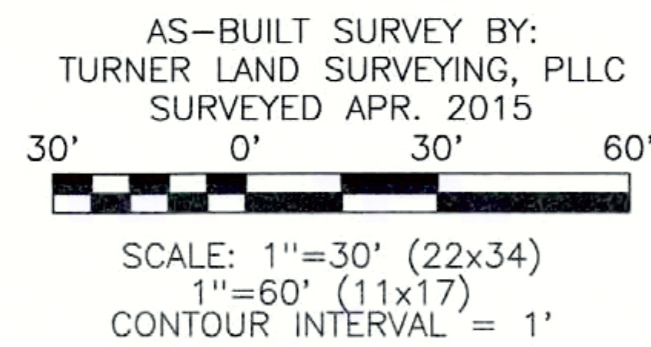


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*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



LEGEND:	
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--- TOP OF BANK	--- ROCK STEP POOL
--- BANK TOE	--- RIFFLE GRADE CONTROL
--- LCE	--- ROCK SILL
--- CONSERVATION EASEMENT	--- ROCK CROSS VANE
--- LIMITS OF AS-BUILT SURVEY	--- LIVE CUTTING BUNDLE/ LIVE PLANTING
--- EX. THALWEG (BY OTHERS)	--- VP VEGETATION PLOT
--- EX. PROPERTY LINE (NOT SURVEYED)	
--- BEDROCK	
--- RIP RAP	
--- LOG STRUCTURE	
--- LOG GRADE CONTROL STRUCTURE	

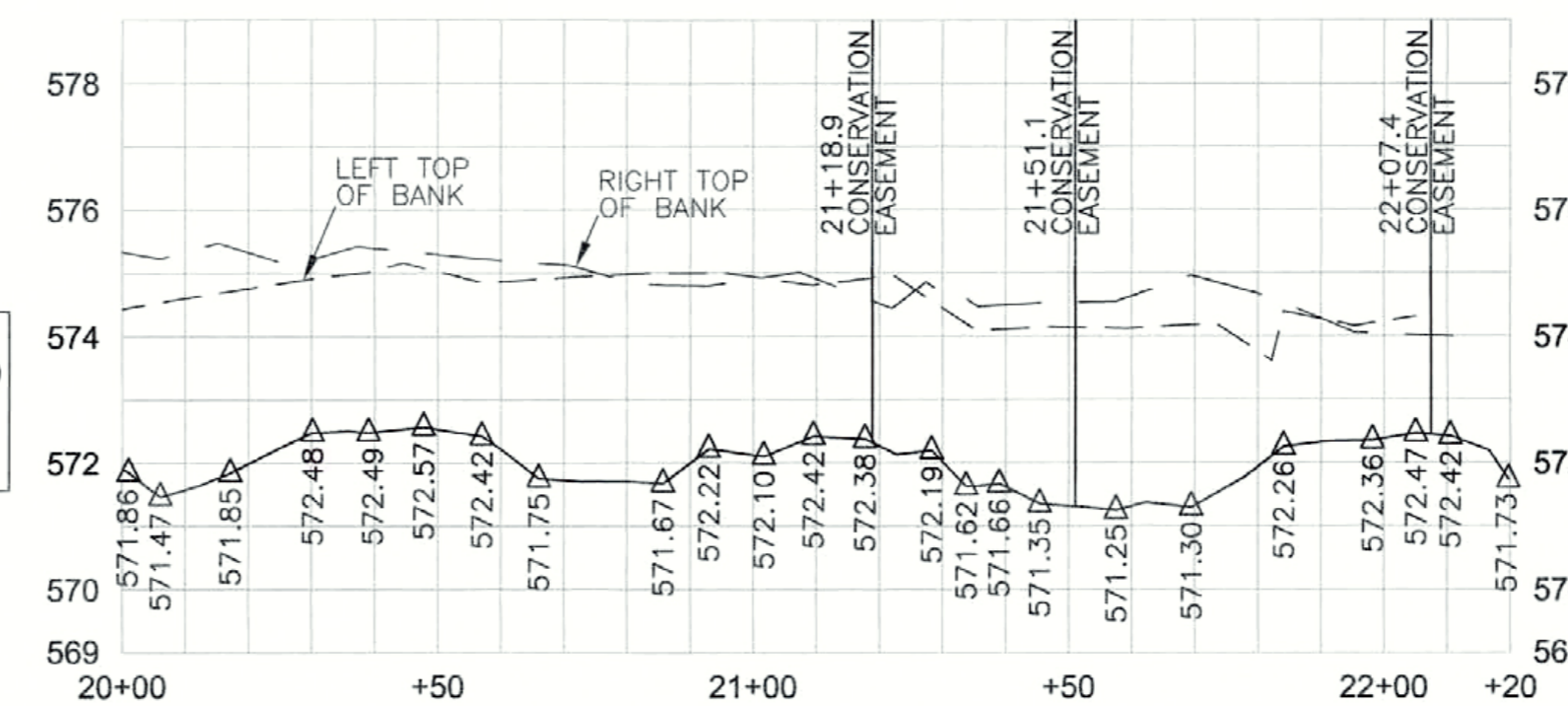


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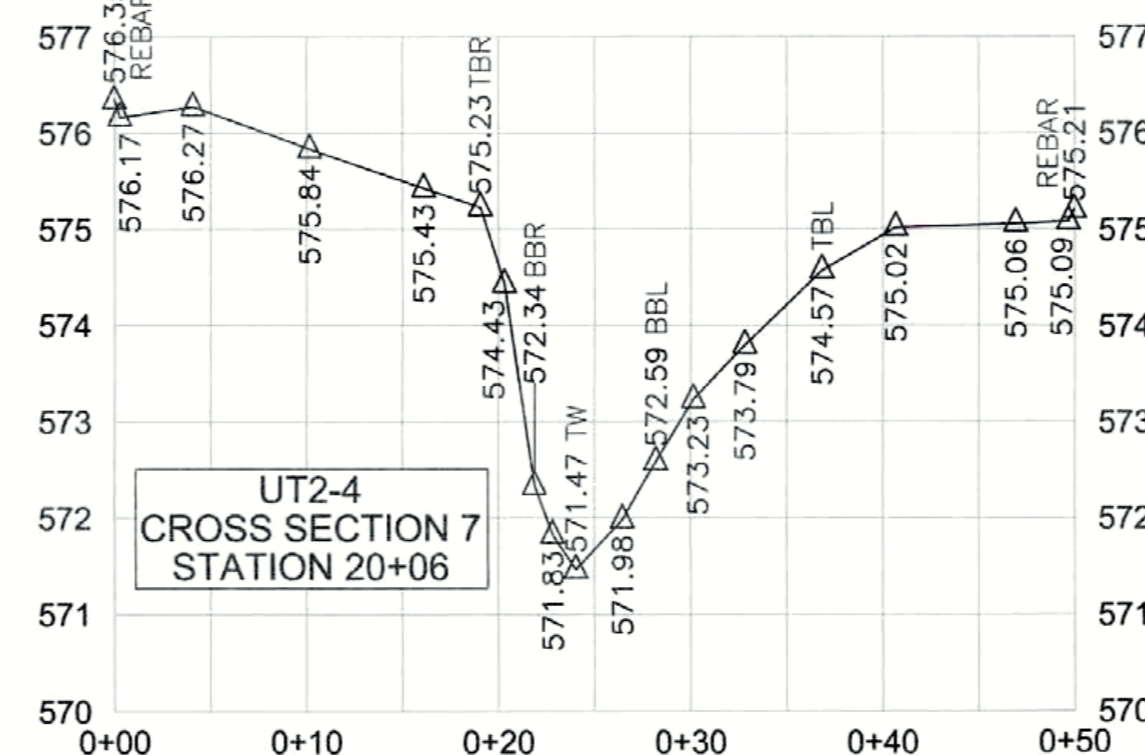
CROSS SECTION REBAR COORDINATES:			
Description	Northing	Easting	Elevation
XS7 RIGHTBANK	478373.91	1532079.47	576.35
XS7 LEFTBANK	478340.87	1532116.96	575.21
XS8 RIGHTBANK	478331.96	1532061.63	576.48
XS8 LEFTBANK	478323.71	1532111.04	575.24

AS-BUILT PROFILE  
UT2-4  
STA 20+00 TO 22+20

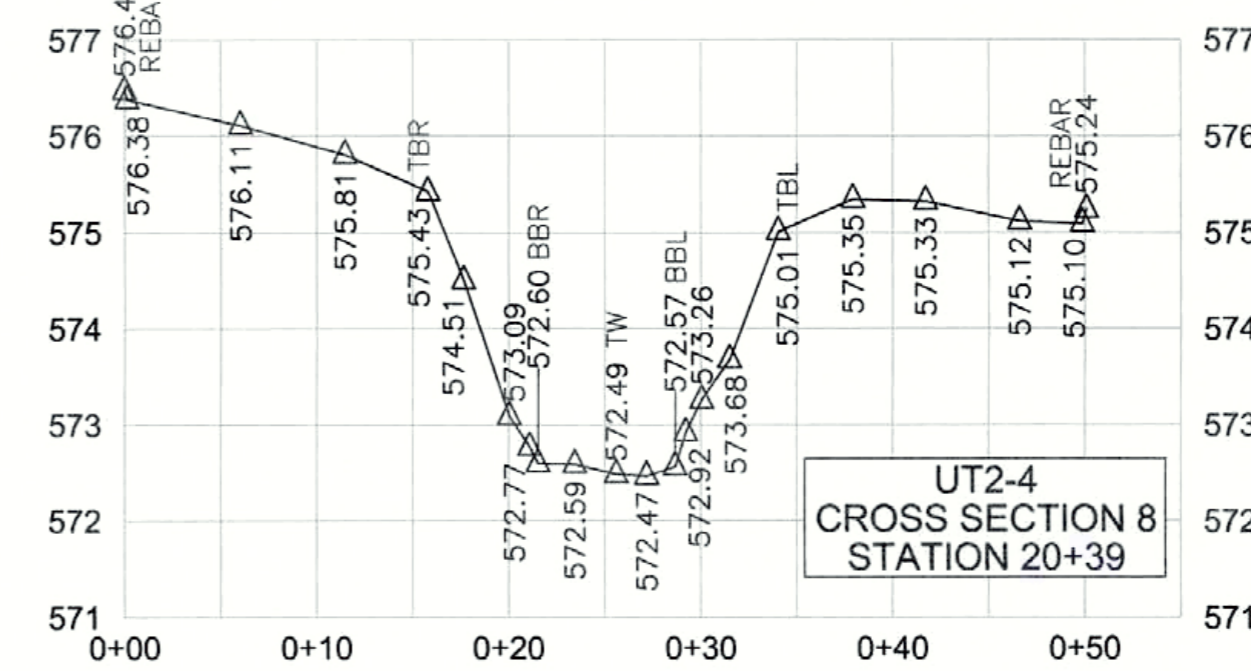


PROFILE SCALE  
HORIZONTAL: 1"=30'(22x34)  
1"=60'(11x17)  
VERTICAL: 1"=3'(22x34)  
1"=6'(11x17)

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



UT2-4  
CROSS SECTION 7  
STATION 20+06



UT2-4  
CROSS SECTION 8  
STATION 20+39

REVISIONS: DATE AND INITIAL:

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UT2-4 STA 20+00 TO 22+20

**POPLIN RIDGE STREAM  
RESTORATION PROJECT**

NCEEP PROJECT # 95359

NORTH CAROLINA

UNION COUNTY

MONROE

DATE: 04/27/2015

SURVEYED BY: DST/JAP/DTH

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PROJECT: TLS-14-029

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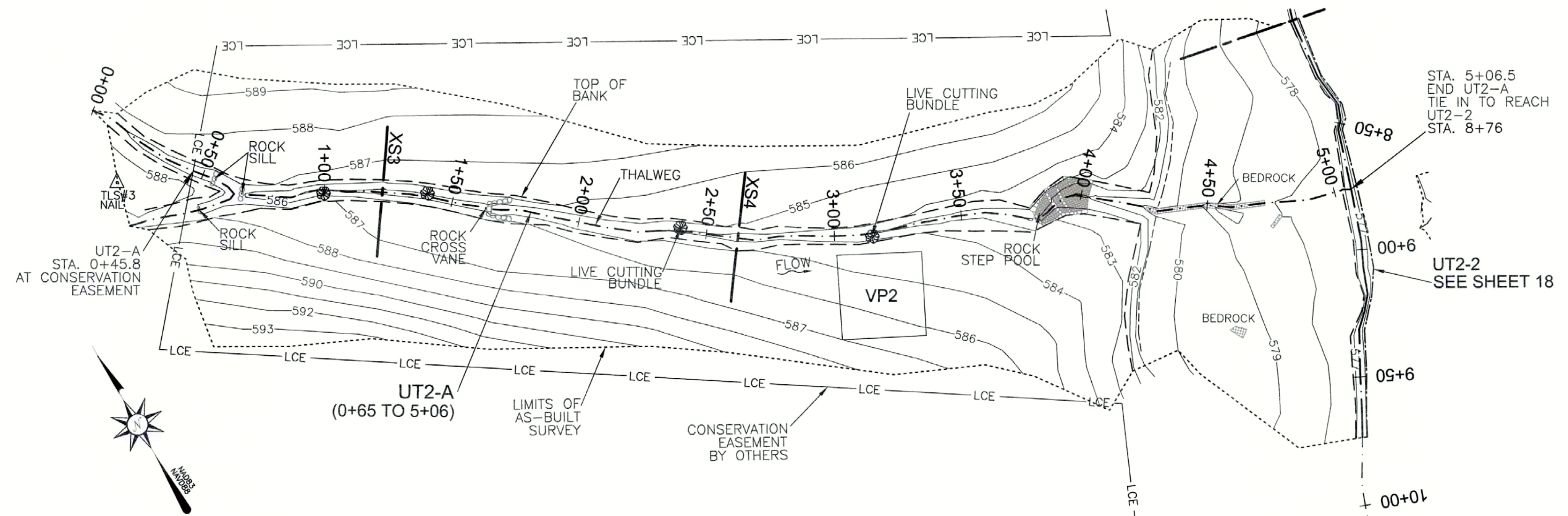
SCALE: AS SHOWN

SHEET  
21 of 22



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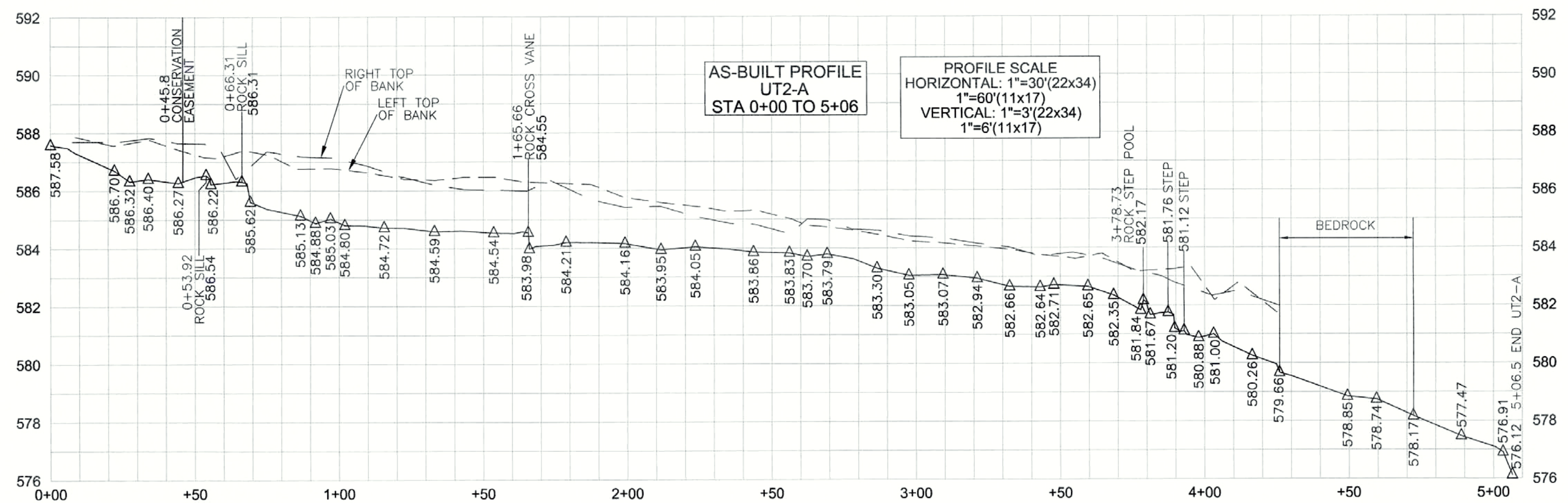
**LEGEND:**

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⊠ RIP RAP	
== LOG STRUCTURE	
== LOG GRADE CONTROL STRUCTURE	

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APR. 2015

30' 0' 30' 60'

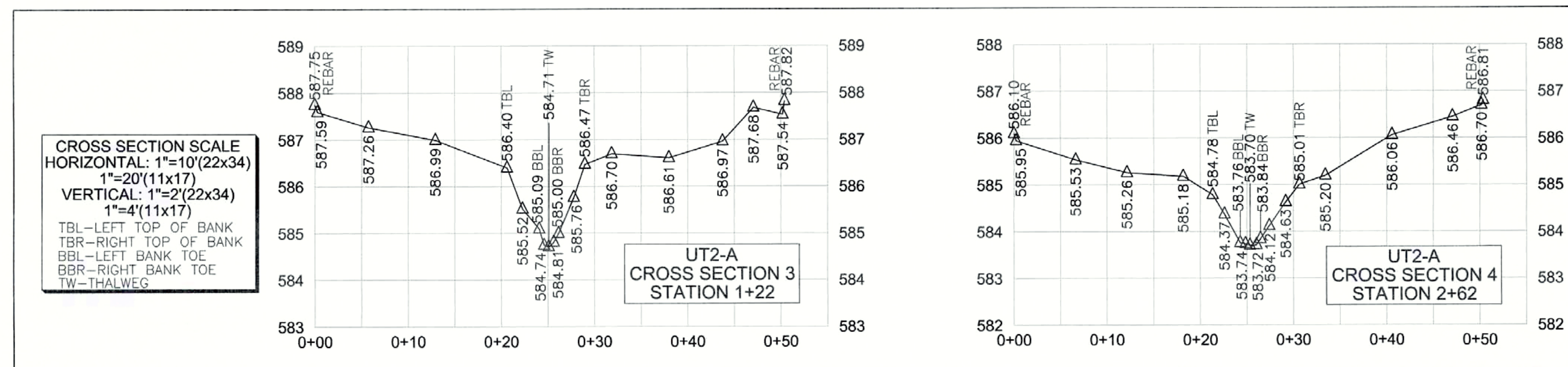
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CROSS SECTION REBAR COORDINATES:

Description	Northing	Easting	Elevation
XS3 RIGHTBANK	479498.03	1532192.03	587.82
XS3 LEFTBANK	479539.50	1532220.65	587.75
XS4 RIGHTBANK	479413.83	1532302.09	586.81
XS4 LEFTBANK	479454.38	1532331.95	586.10



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