

AS-BUILT SURVEY OF NEIGHBORS BRANCH & WALTON CRAWLEY BRANCH STREAM RESTORATION PROJECT

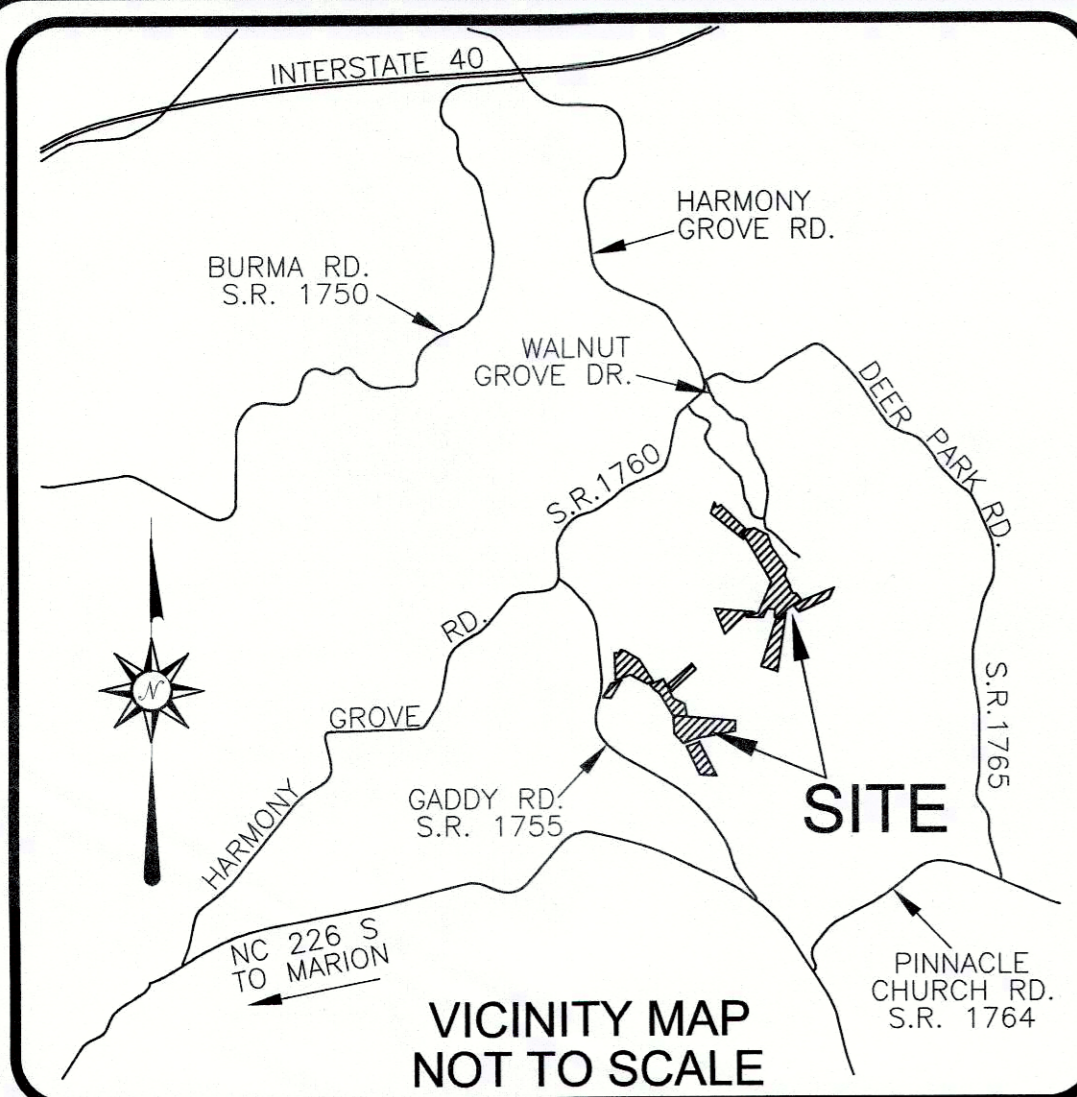
McDOWELL COUNTY, NC
SCO# 080730801
NCEEP PROJECT# 92872

REFERENCES:

OWNER:
NORTH CAROLINA DEPARTMENT
OF MITIGATION SERVICES
217 WEST JONES ST., SUITE 300A
RALEIGH, NC 27603
(919)707-8976
DMS PROJ. MANAGER: MATTHEW REID

DESIGNER:
ICA ENGINEERING
5121 KINGDOM WAY, SUITE 100
RALEIGH, NC 27607
(919)851-6066

CONTRACTOR:
CAROLINA ENVIRONMENTAL
CONTRACTING, INC
MOUNT AIRY, NC
(336)320-3849



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 SEPTEMBER, 2015.

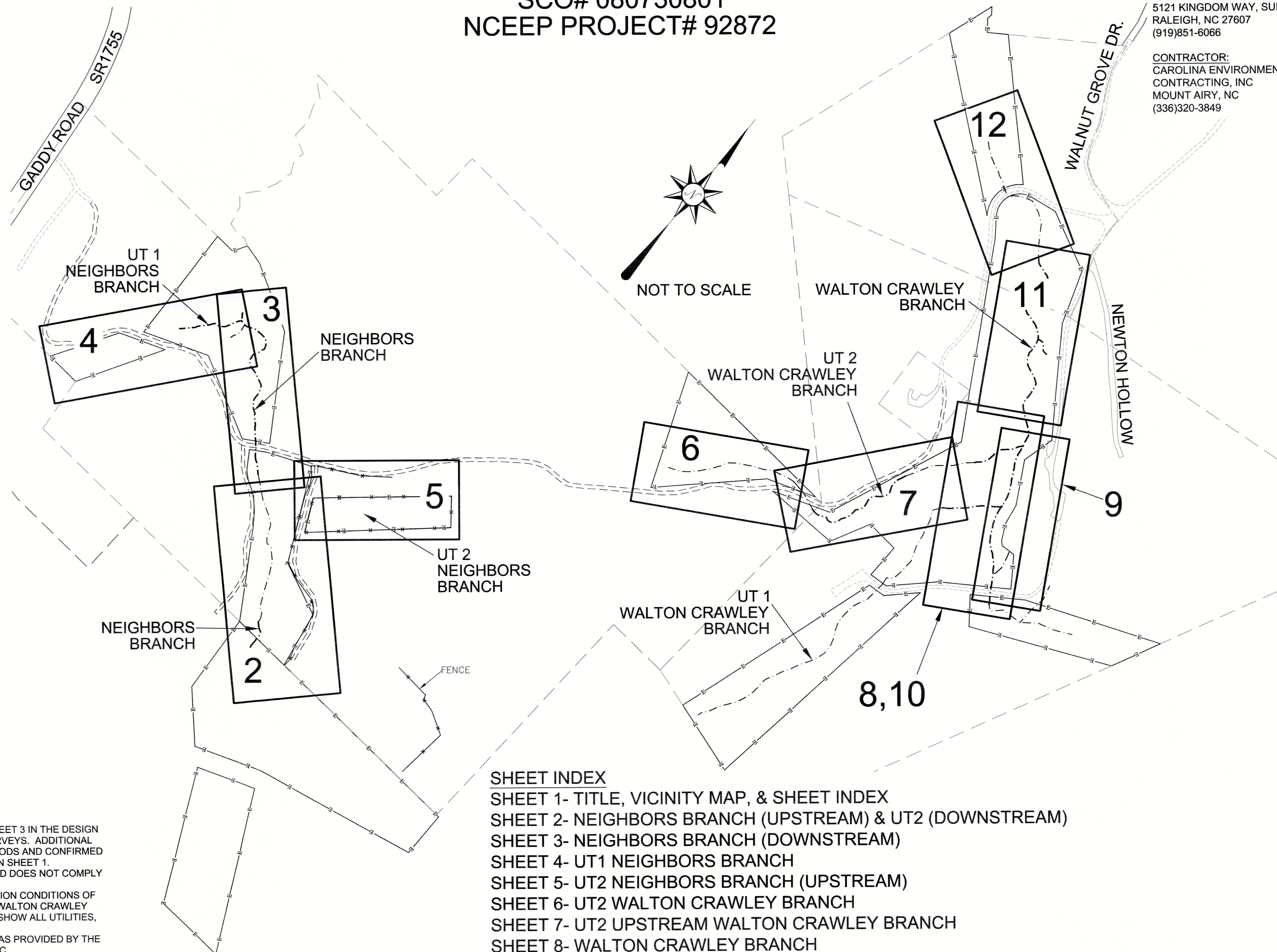
Elisabeth G. Turner
ELISABETH G. TURNER, P.L.S. #L-4440

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

PT#	Northing(Y)	Easting(X)	Elev(Z)	Description
36	707179.16	1137877.24	1240.70	TLS#36 NAIL
37	707133.84	1137556.83	1212.96	TLS#37 REBAR W/CAP
38	707266.94	1137379.58	1210.13	TLS#38 NAIL
39	707563.76	1137447.67	1238.08	TLS#39 NAIL
40	709275.45	1139310.53	1192.85	TLS#40 NAIL
49	707407.04	1137454.08	1200.31	TLS#49 NAIL
50	707333.21	1137324.95	1204.29	TLS#50 NAIL
52	707010.51	1137910.80	1225.32	TLS#52 NAIL
55	708694.17	1139628.08	1180.70	TLS#55 REBAR W/CAP
56	707183.04	1138101.26	1238.52	TLS#56 NAIL
59	706925.55	1137960.03	1227.68	TLS#59 NAIL
60	706852.87	1138075.27	1240.17	TLS#60 NAIL
61	706708.03	1138182.24	1247.94	TLS#61 REBAR W/CAP
62	706635.49	1138019.26	1226.29	TLS#62 NAIL
63	708144.17	1139248.92	1206.34	TLS#63 NAIL
64	708110.78	1139078.07	1224.82	TLS#64 NAIL
65	708104.06	1138979.07	1231.96	TLS#65 NAIL
66	708933.26	1139411.02	1168.12	TLS#66 NAIL
67	708368.26	1139592.73	1182.91	TLS#67 NAIL
68	709268.77	1139322.56	1194.55	TLS#68 NAIL
69	709293.36	1138994.83	1166.36	TLS#69 NAIL
71	708514.43	1139674.73	1180.24	TLS#71 NAIL
72	708962.33	1139337.50	1168.08	TLS#72 NAIL

GENERAL NOTES:

- ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
- HORIZONTAL DATUM IS NAD83(2011) & VERTICAL DATUM IS NAVD88.
- CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET 3 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
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- THE PURPOSE OF THIS SURVEY IS TO SHOW THE POST CONSTRUCTION CONDITIONS OF THE STREAM AND GRADING RELATED TO THE NEIGHBORS BRANCH & WALTON CRAWLEY BRANCH STREAM & WETLAND RESTORATION PROJECT AND MAY NOT SHOW ALL UTILITIES, STRUCTURES, & BOUNDARIES.
- INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
- NO PROPERTY RESEARCH WAS PERFORMED. FOR CONSERVATION EASEMENT SEE PLAT RECORDED IN McDOWELL COUNTY REGISTER OF DEEDS OFFICE PLAT BOOK 18, PAGE 90, PLAT BOOK 19, PAGE 22, AND PLAT BOOK 23, PAGE 7.



SHEET INDEX

- SHEET 1- TITLE, VICINITY MAP, & SHEET INDEX
- SHEET 2- NEIGHBORS BRANCH (UPSTREAM) & UT2 (DOWNSTREAM)
- SHEET 3- NEIGHBORS BRANCH (DOWNSTREAM)
- SHEET 4- UT1 NEIGHBORS BRANCH
- SHEET 5- UT2 NEIGHBORS BRANCH (UPSTREAM)
- SHEET 6- UT2 WALTON CRAWLEY BRANCH
- SHEET 7- UT2 UPSTREAM WALTON CRAWLEY BRANCH
- SHEET 8- WALTON CRAWLEY BRANCH
- SHEET 9- WALTON CRAWLEY BRANCH POND
- SHEET 10- UT1 WALTON CRAWLEY BRANCH
UT2 DOWNSTREAM WALTON CRAWLEY BRANCH
- SHEET 11- WALTON CRAWLEY BRANCH
- SHEET 12- WALTON CRAWLEY BRANCH

REVISIONS, DATE AND INITIAL:

TITLE, VICINITY MAP, & SHEET INDEX
NEIGHBORS BRANCH & WALTON CRAWLEY
STREAM RESTORATION PROJECT
NCEEP PROJECT#92872
MCDOWELL COUNTY
NORTH CAROLINA

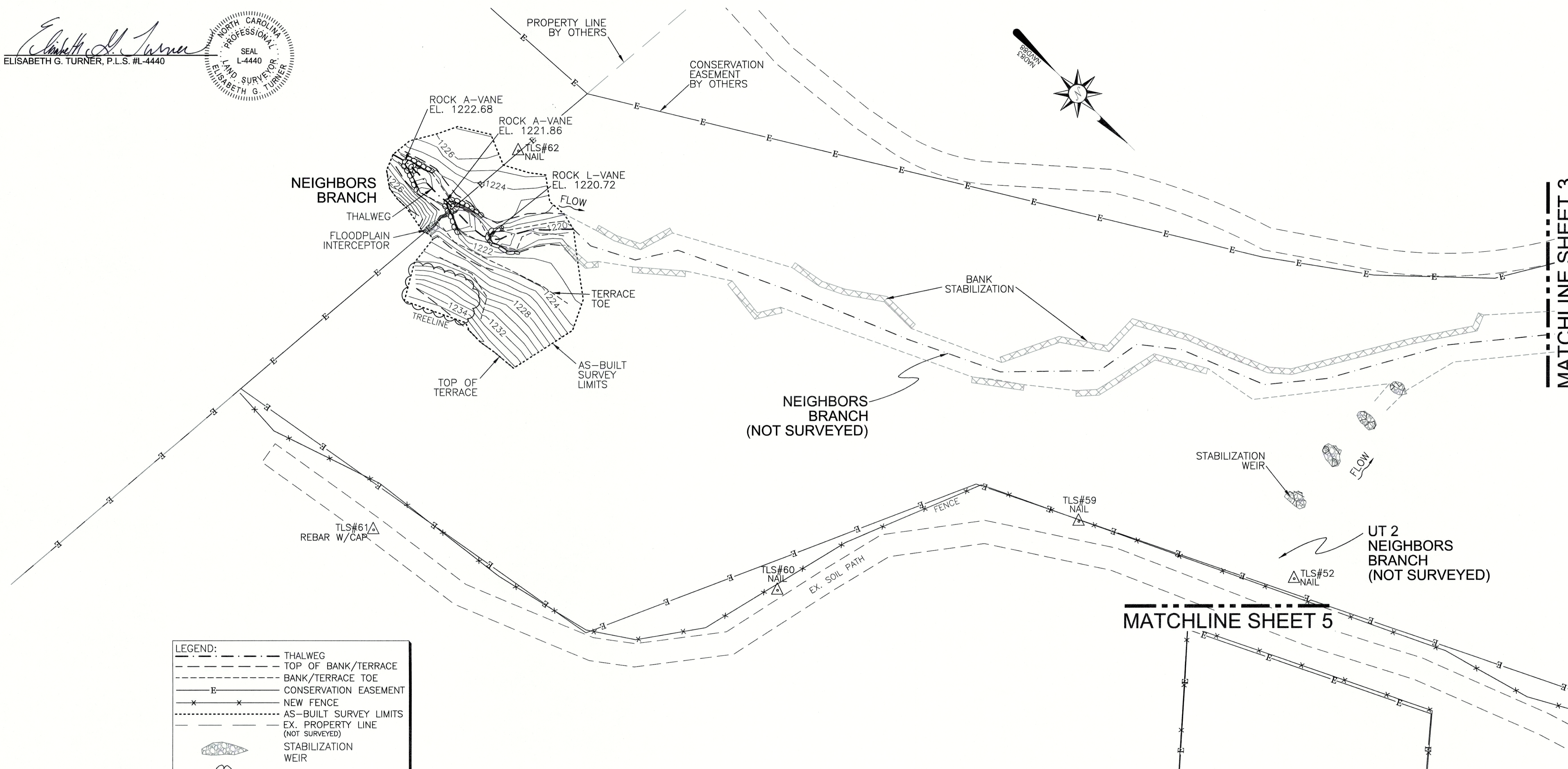
3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE



DATE:	08/10/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-001
FILE:	NEIGHBOR_CRAWLEY_92872_AB_TLS.D
SCALE:	AS SHOWN
SHEET	1 of 12

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 SEPTEMBER, 2015.

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



LEGEND:

	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	NEW FENCE
	AS-BUILT SURVEY LIMITS
	EX. PROPERTY LINE (NOT SURVEYED)
	STABILIZATION WEIR
	ROCK L-VANE
	ROCK A-VANE

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

25' 0' 25' 50'

SCALE: 1"=25' (22x34)
 1"=50' (11x17)
 CONTOUR INTERVAL = 1'

GENERAL NOTES:

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REVISIONS, DATE AND INITIAL:

TURNER
 LAND SURVEYING
 3719 BENSON DRIVE
 RALEIGH, NC 27609
 P-0702 (919) 827-0745
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 Certified DBE/WBE

NEIGHBORS BRANCH (UPSTREAM) & UT2 (DOWNSTREAM)
 NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT
 NCEEP PROJECT#92872

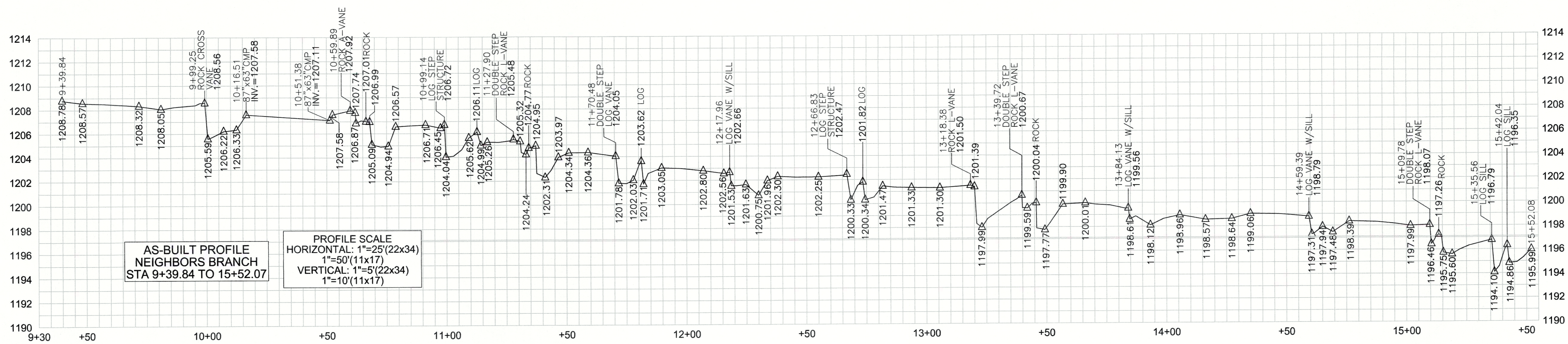
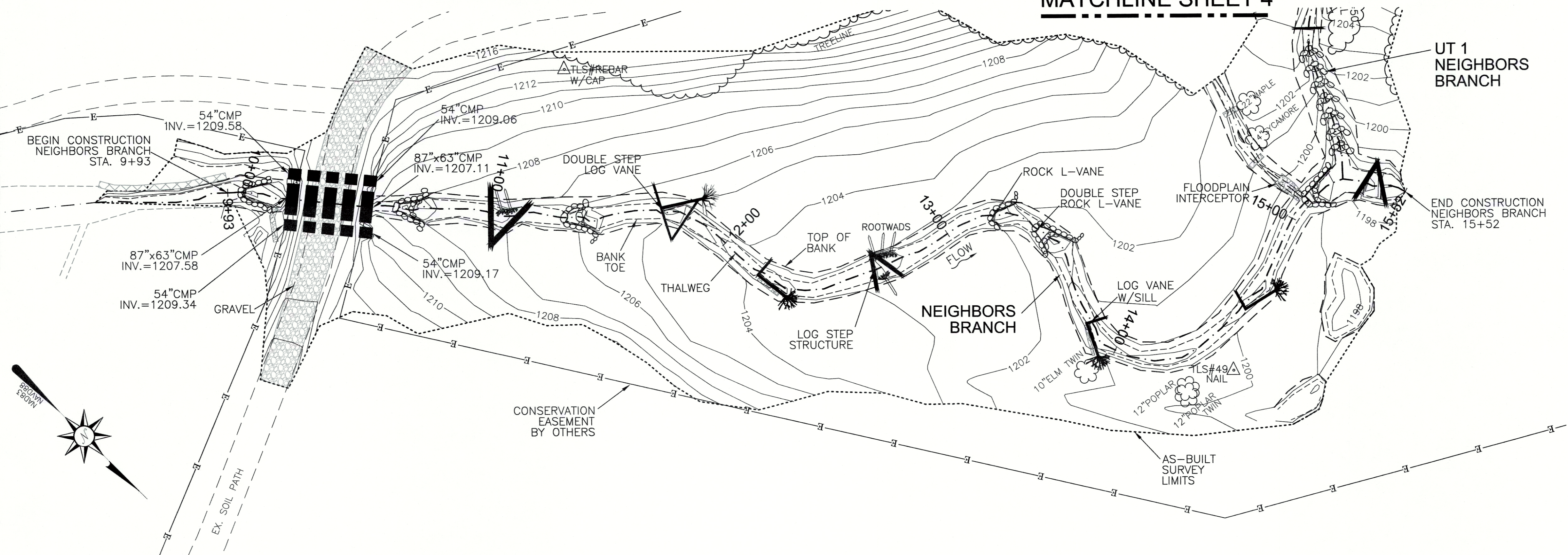
MCDOWELL COUNTY
 NORTH CAROLINA
 NEBO

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 DRAWN BY: ROB/DST
 REVIEWED BY: DST/EGT
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 FILE: NEIGHBOR_CRAWLEY_92872_AB_TLS_F
 SCALE: AS SHOWN

SHEET
 2 of 12

MATCHLINE SHEET 2

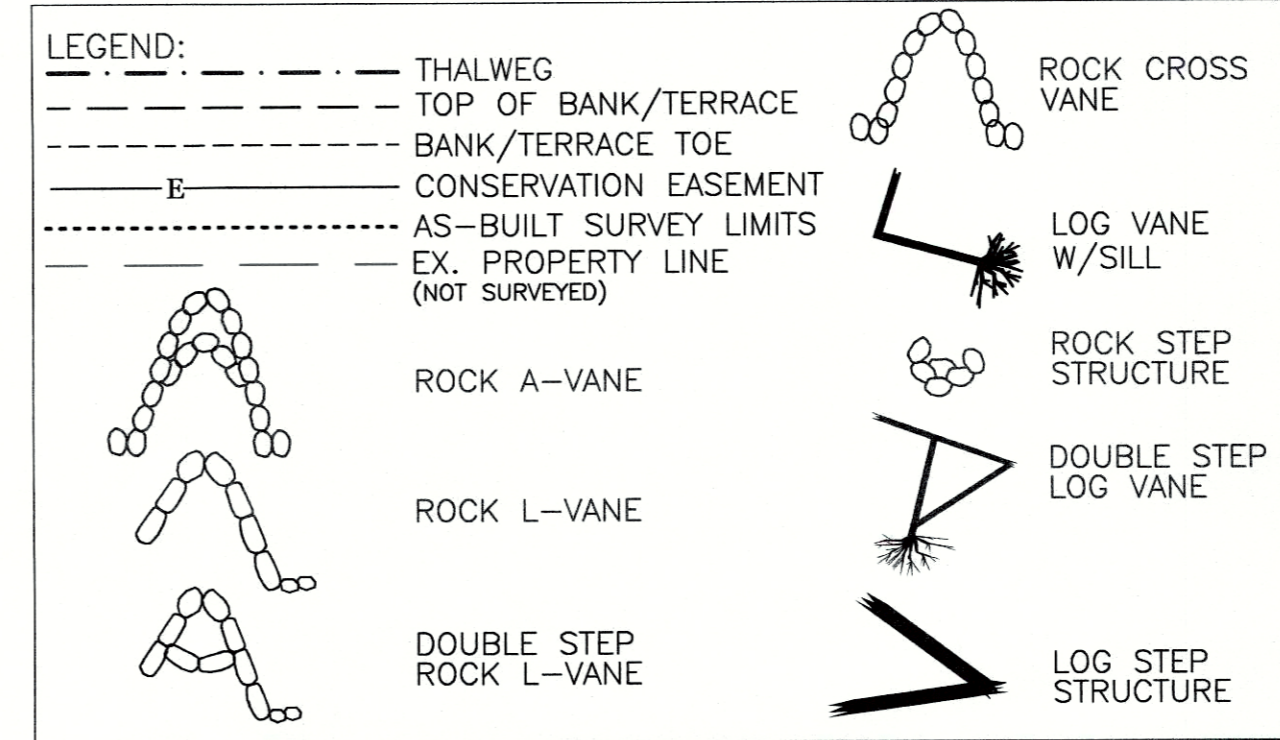
MATCHLINE SHEET 4



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

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AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

25' 0' 25' 50'

SCALE: 1"=25' (22x34)
 1"=50' (11x17)
 CONTOUR INTERVAL = 1'

NEIGHBORS BRANCH (DOWNSTREAM)

NEIGHBORS BRANCH & WALTON CRAWLEY STREAM RESTORATION PROJECT
NCEP PROJECT#92872

NORTH CAROLINA

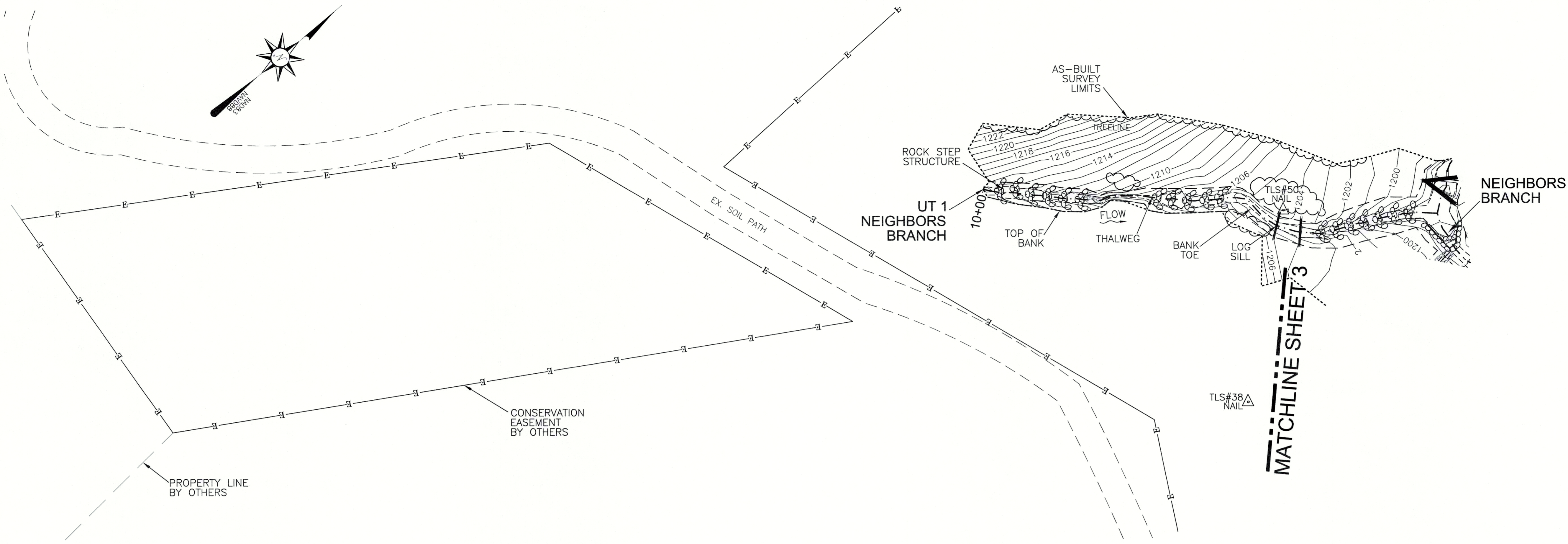
McDOWELL COUNTY

NEBO

REVISIONS, DATE AND INITIAL:



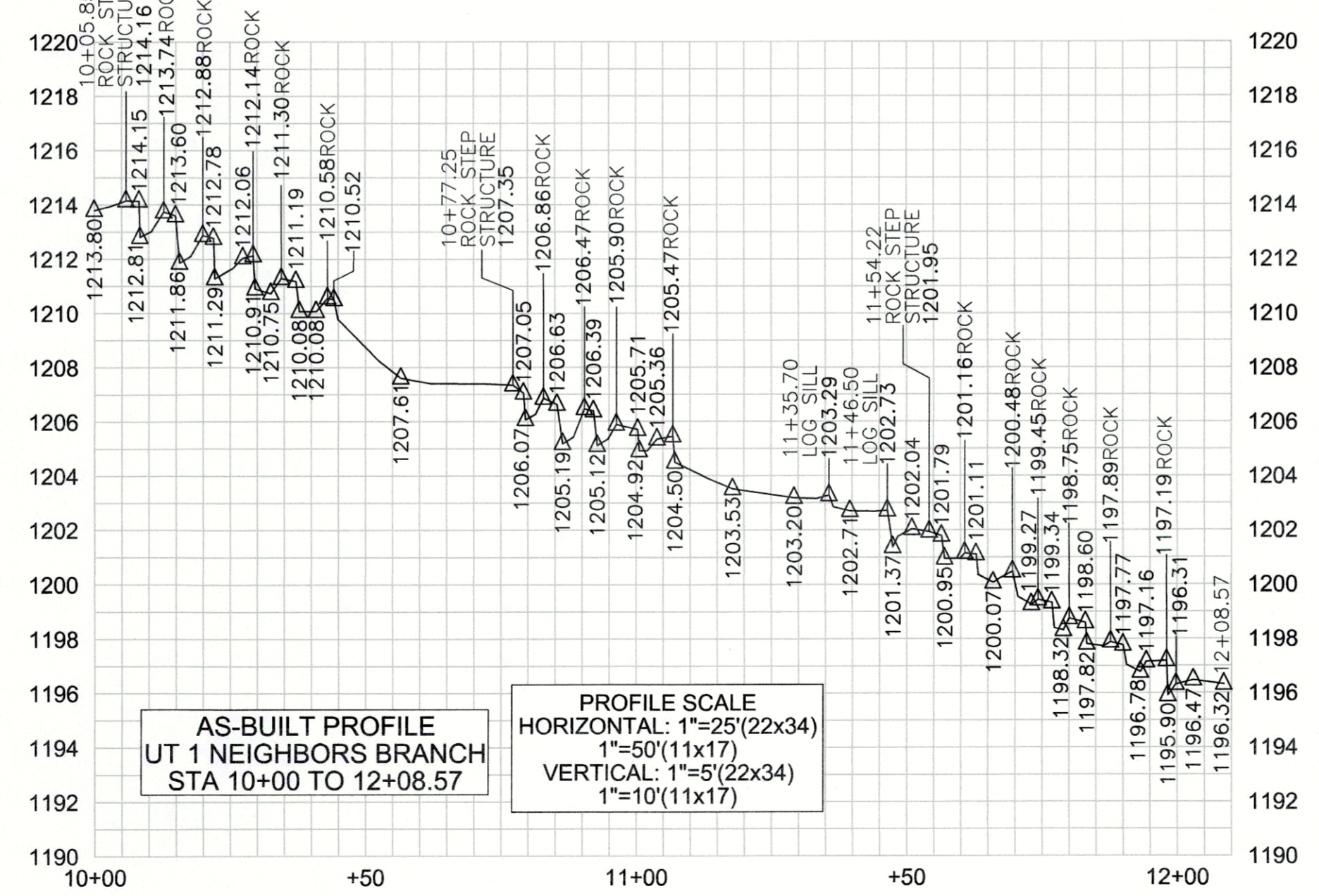
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 ELISABETH G. TURNER, P.L.S. #L-4440
 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR
 SEAL L-4440
 ELISABETH G. TURNER

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LEGEND:

--- (dashed line)	THALWEG
--- (long dashed line)	TOP OF BANK/TERRACE
--- (short dashed line)	BANK/TERRACE TOE
- - - - - (dash-dot line)	CONSERVATION EASEMENT
--- (dash-dot-dot line)	AS-BUILT SURVEY LIMITS
--- (long dash-short dash line)	EX. PROPERTY LINE (NOT SURVEYED)
— (solid line)	LOG SILL
⊙ (circle with dots)	ROCK STEP STRUCTURE

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

25' 0' 25' 50'

SCALE: 1"=25' (22x34)
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3719 BENSON DRIVE
 RALEIGH, NC 27609
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UT 1 NEIGHBORS BRANCH

**NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT**

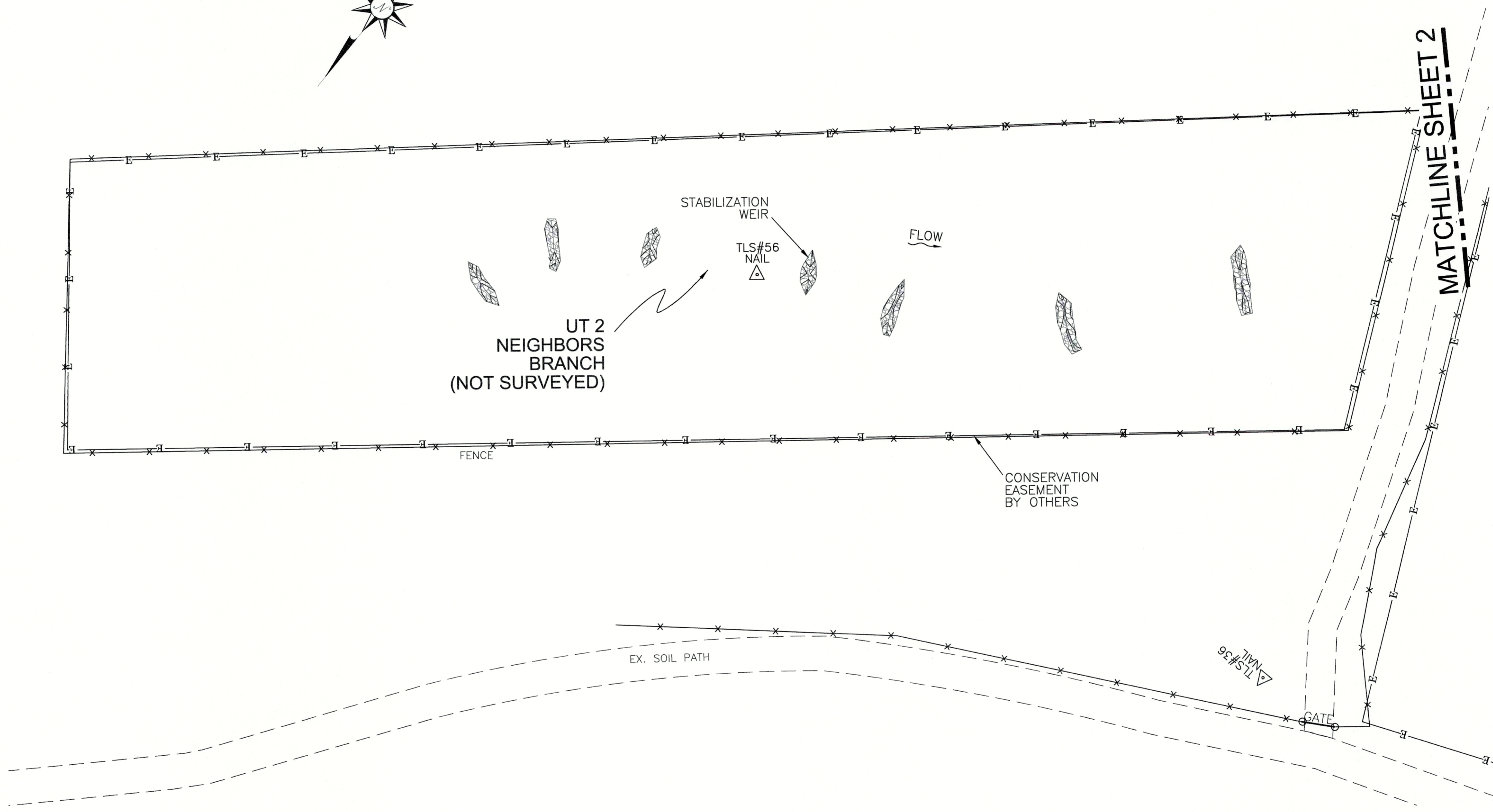
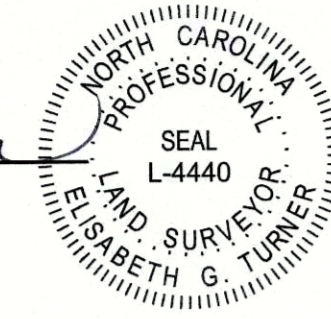
NCEEP PROJECT#92872

MCDOWELL COUNTY
 NORTH CAROLINA

DATE:	08/10/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-001
FILE:	NEIGHBOR_CRAWLEY_92872_AB_TLS_F
SCALE:	AS SHOWN

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LEGEND:	
--- ---	THALWEG
--- ---	TOP OF BANK/TERRACE
--- ---	BANK/TERRACE TOE
--- ---	CONSERVATION EASEMENT
--- ---	NEW FENCE
--- ---	AS-BUILT SURVEY LIMITS
--- ---	EX. PROPERTY LINE (NOT SURVEYED)
--- ---	STABILIZATION WEIR

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
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UT2 NEIGHBORS BRANCH (UPSTREAM)
 NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT
 NCEEP PROJECT #92872
 McDowell County
 NORTH CAROLINA

DATE:	08/10/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-001
FILE:	NEIGHBOR_CRAWLEY_92872_AB_TLS_F
SCALE:	AS SHOWN

SHEET
 5 of 12

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- - - -	TOP OF BANK/TERRACE
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- x - x -	NEW FENCE
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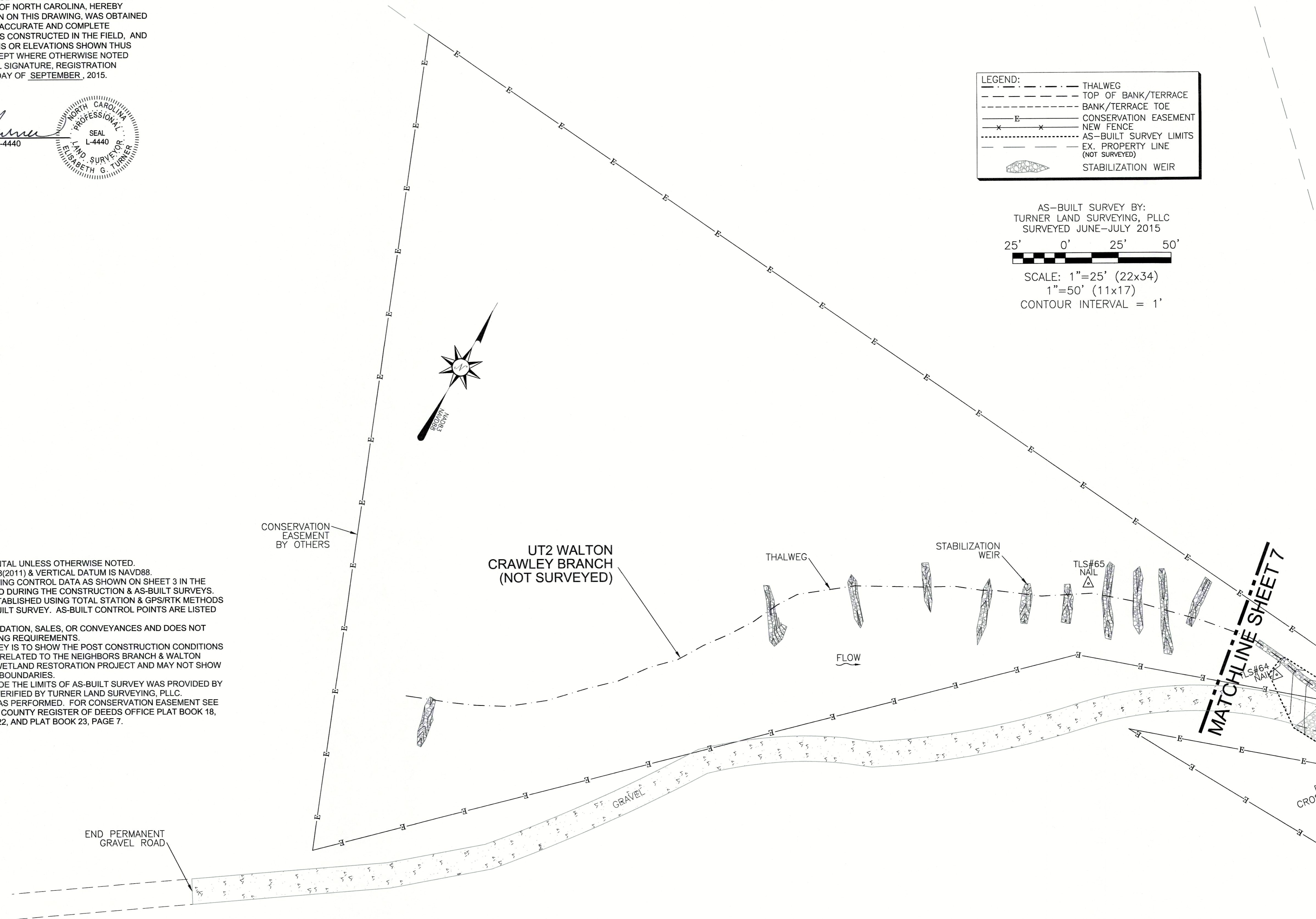
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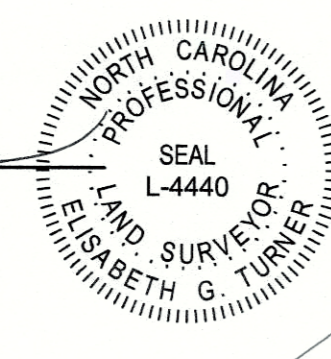
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SHEET
6 of 12

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 SEPTEMBER, 2015.

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



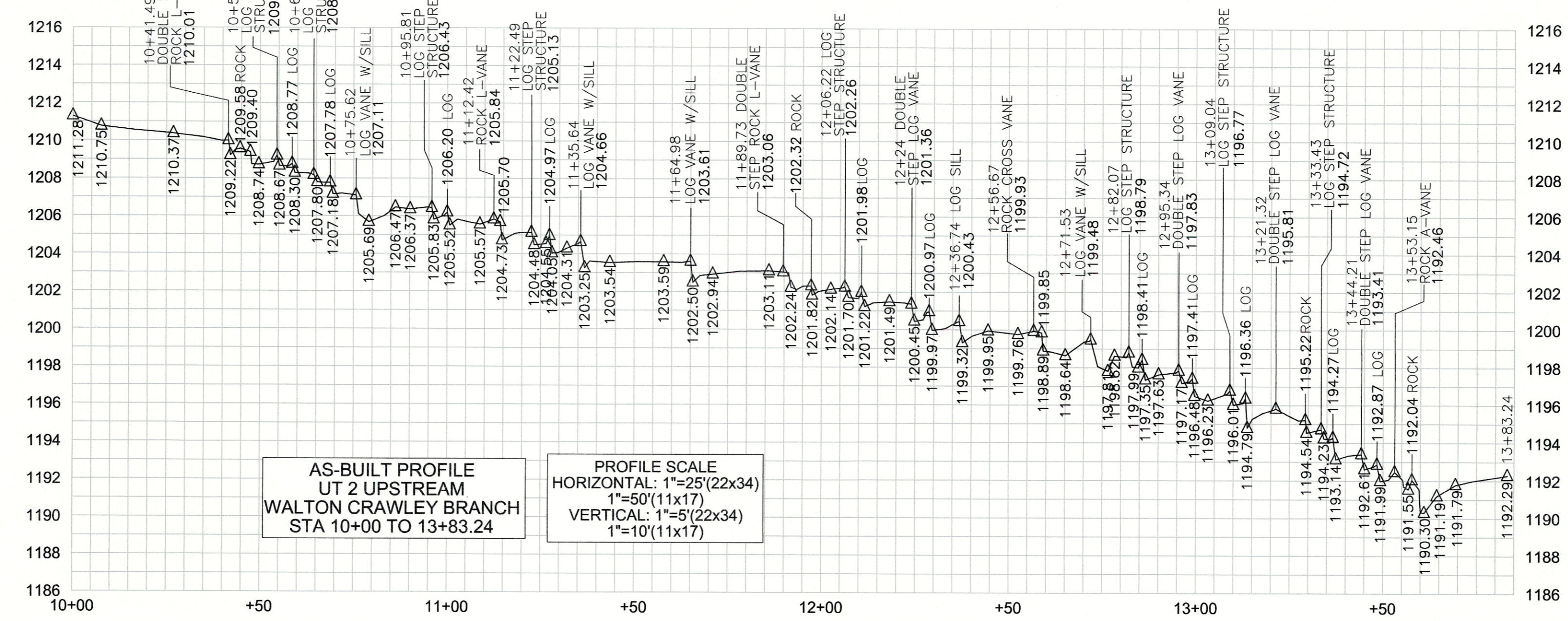
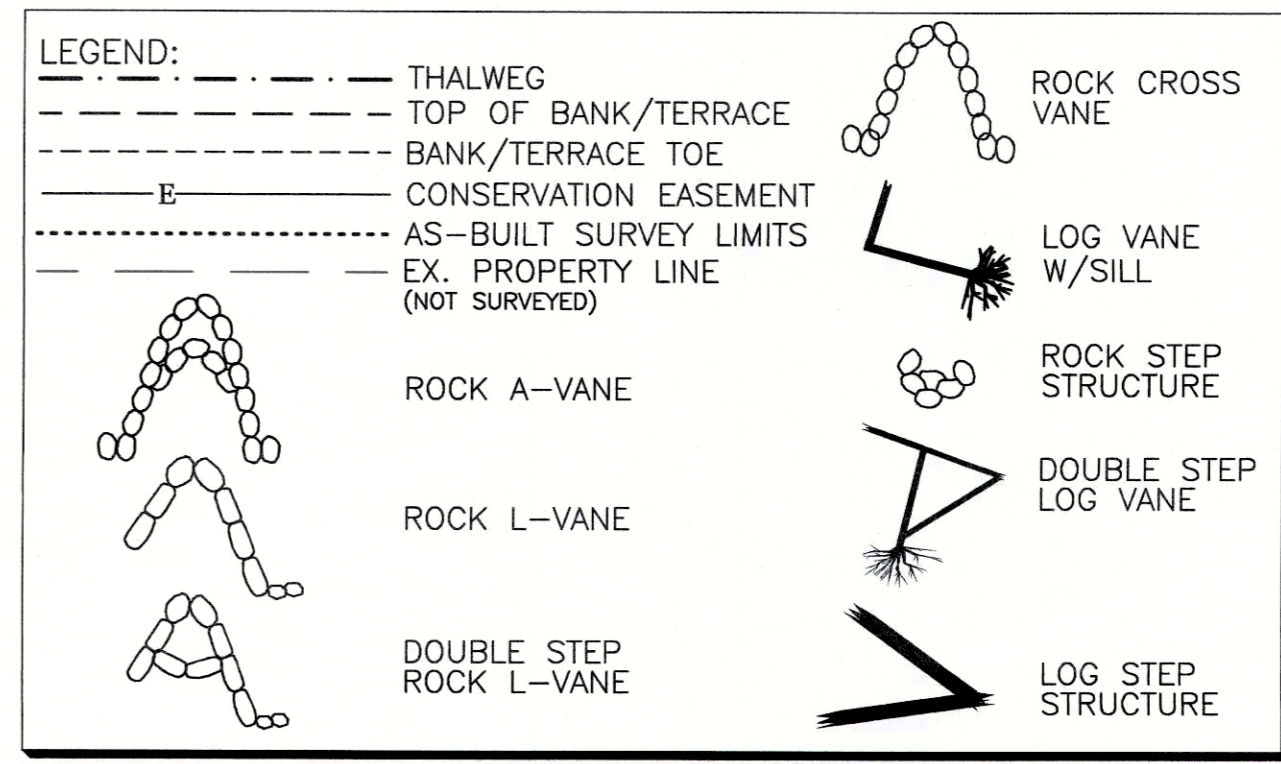
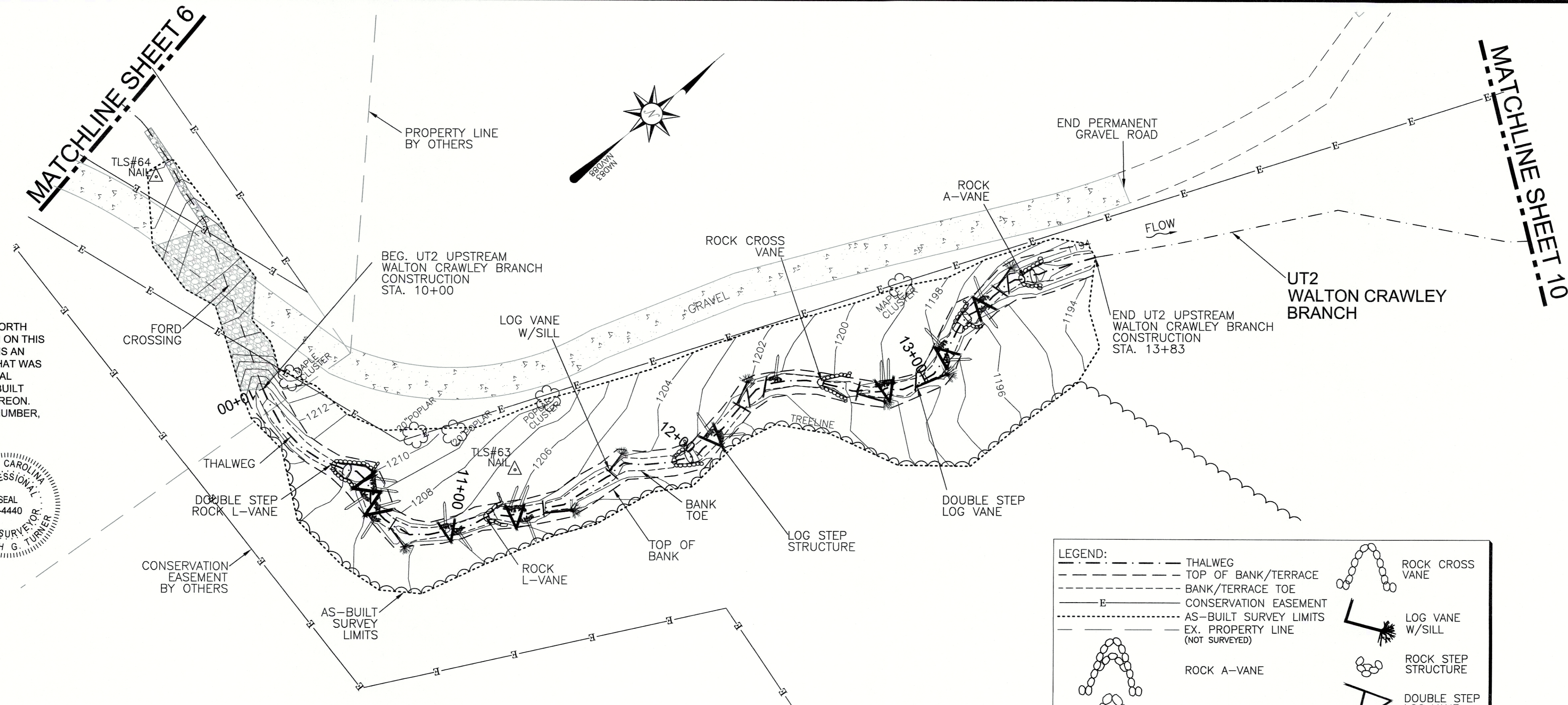
AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

25' 0' 25' 50'

SCALE: 1"=25' (22x34)
 1"=50' (11x17)
 CONTOUR INTERVAL = 1'

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83(2011) & VERTICAL DATUM IS NAVD88.
3. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET 3 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
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REVISIONS, DATE AND INITIAL:

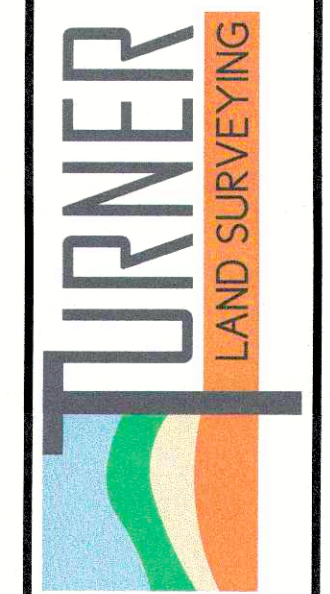
UT2 UPSTREAM WALTON CRAWLEY
 NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT
 NCEEP PROJECT #92872

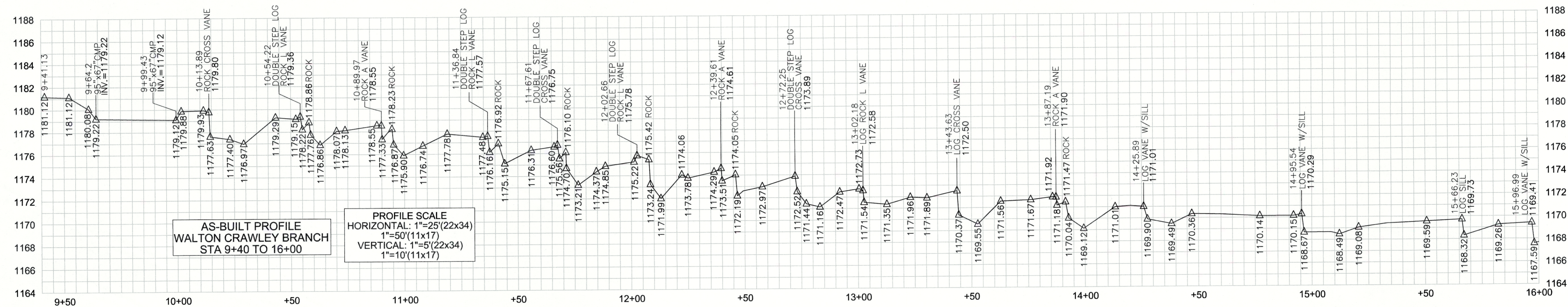
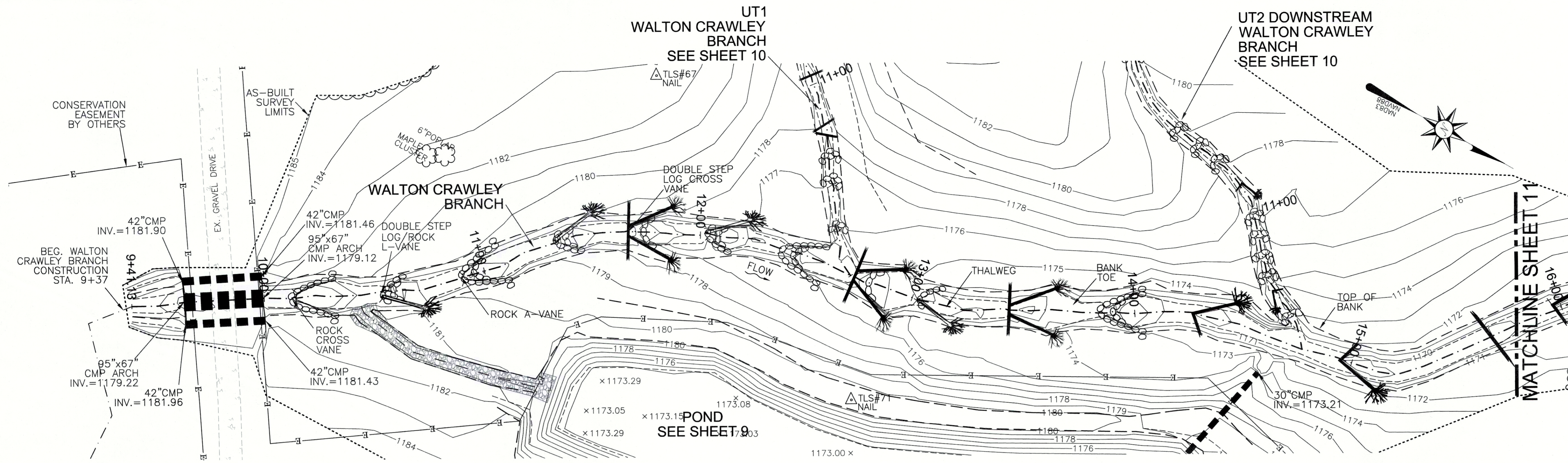
NORTH CAROLINA
 McDowell County
 NEBO

DATE: 08/10/2015
 SURVEYED BY: DST/JAP/DTH
 DRAWN BY: ROB/DSJ
 REVIEWED BY: DST/EGT
 PROJECT: TLS-15-001
 FILE: NEIGHBOR_CRAWLEY_92872_AB_TLS_F
 SCALE: AS SHOWN

SHEET
 7 of 12

3719 BENSON DRIVE
 RALEIGH, NC 27609
 P-0702 (919) 827-0745
 www.turnerlandsurveying.com
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 SEAL L-4440

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AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

25' 0' 25' 50'

SCALE: 1"=25' (22x34)
 1"=50' (11x17)
 CONTOUR INTERVAL = 1'

LEGEND:

- THALWEG
- TOP OF BANK/TERRACE
- BANK/TERRACE TOE
- CONSERVATION EASEMENT
- AS-BUILT SURVEY LIMITS
- EX. PROPERTY LINE (NOT SURVEYED)
- LOG SILL
- ROCK A-VANE
- ROCK L-VANE
- LOG VANE W/SILL
- LOG/ROCK L-VANE
- DOUBLE STEP LOG/ROCK L-VANE
- ROCK CROSS VANE
- ROCK STEP STRUCTURE
- DOUBLE STEP LOG CROSS VANE
- LOG CROSS VANE
- LOG STEP STRUCTURE

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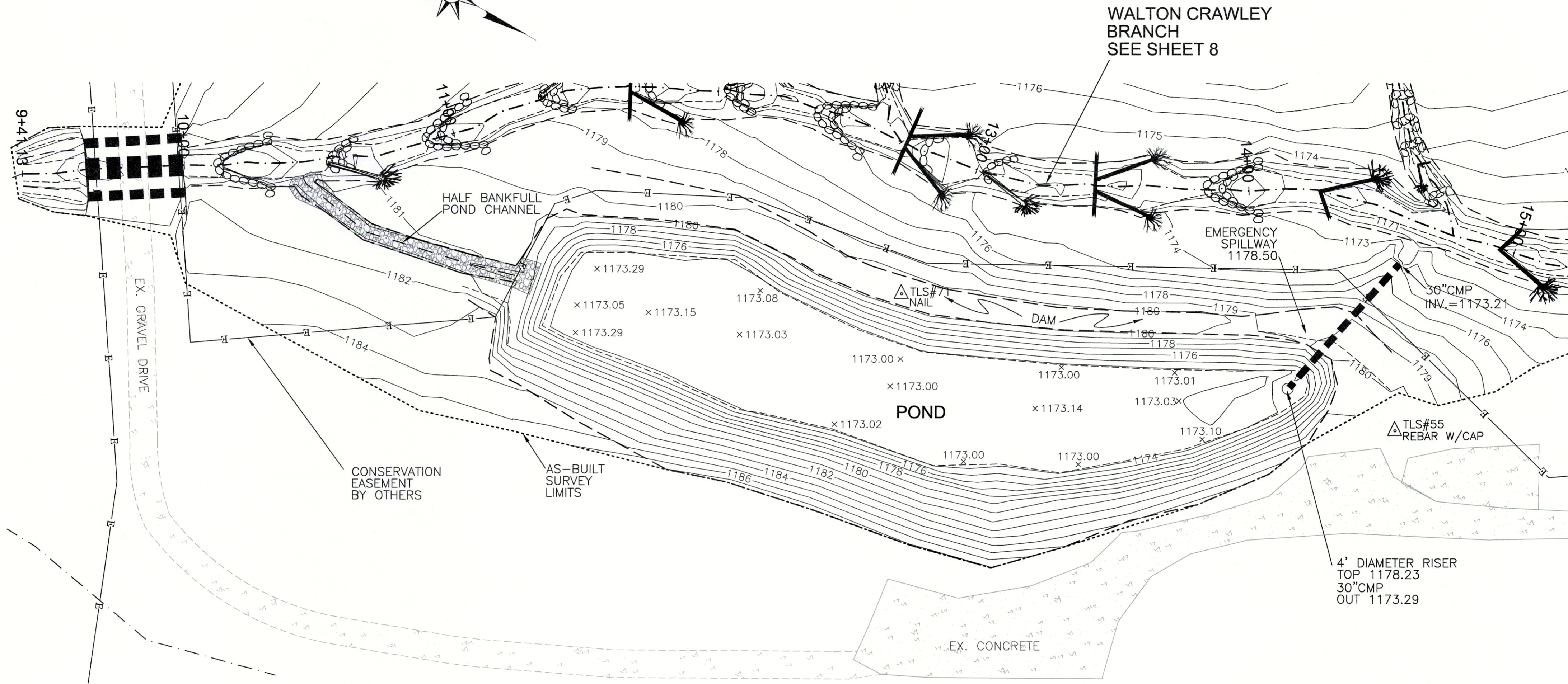
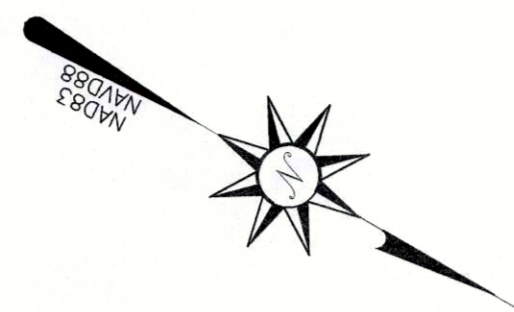
WALTON CRAWLEY BRANCH
NEIGHBORS BRANCH & WALTON CRAWLEY
STREAM RESTORATION PROJECT
 NCEEP PROJECT #92872

NORTH CAROLINA
 McDOWELL COUNTY
 NEBO

DATE:	08/10/2015
SURVEYED BY:	DST/JAP/DTH
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-001
FILE:	NEIGHBOR CRAWLEY_92872_AB_TLS_F
SCALE:	AS SHOWN

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LEGEND:	
	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	AS-BUILT SURVEY LIMITS
	EX. PROPERTY LINE (NOT SURVEYED)

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

SCALE: 1"=25' (22x34)
 1"=50' (11x17)
 CONTOUR INTERVAL = 1'

REVISIONS, DATE AND INITIAL:



WALTON CRAWLEY BRANCH POND
NEIGHBORS BRANCH & WALTON CRAWLEY
STREAM RESTORATION PROJECT
 NCEP PROJECT #92872

NORTH CAROLINA

McDOWELL COUNTY

NEBO

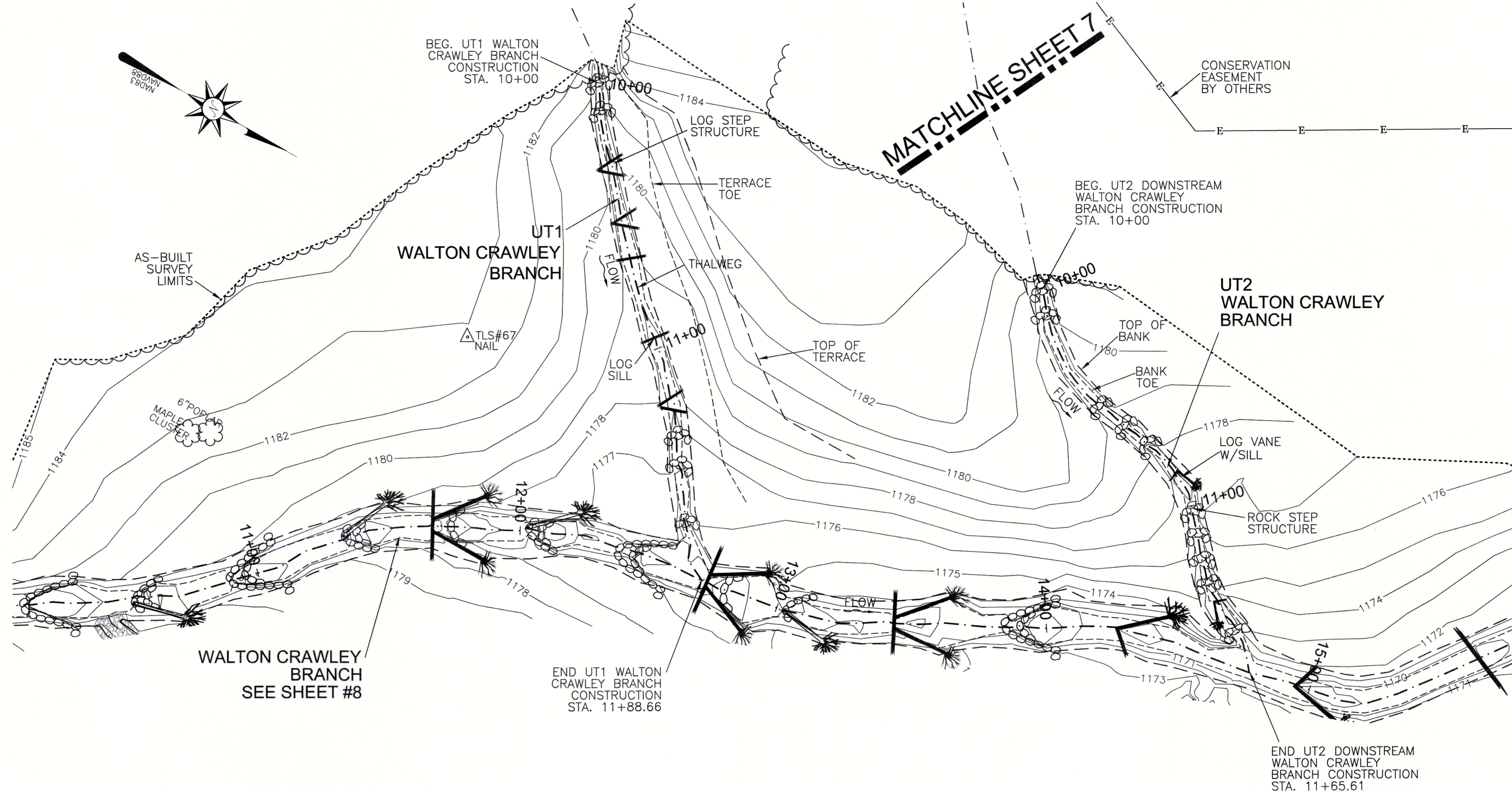
3719 BENSON DRIVE
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SCALE:	AS SHOWN

SHEET
9 of 12

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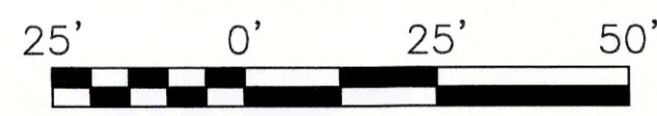
Elisabeth G. Turner
 ELISABETH G. TURNER, P.L.S. #L-4440



LEGEND:

---	THALWEG
- - - -	TOP OF BANK/TERRACE
- - - -	BANK/TERRACE TOE
E - - - -	CONSERVATION EASEMENT
- - - -	AS-BUILT SURVEY LIMITS
- - - -	EX. PROPERTY LINE (NOT SURVEYED)
—	LOG SILL
▲	LOG STEP STRUCTURE
⊗	ROCK STEP STRUCTURE
▲	LOG VANE W/SILL

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JUNE-JULY 2015

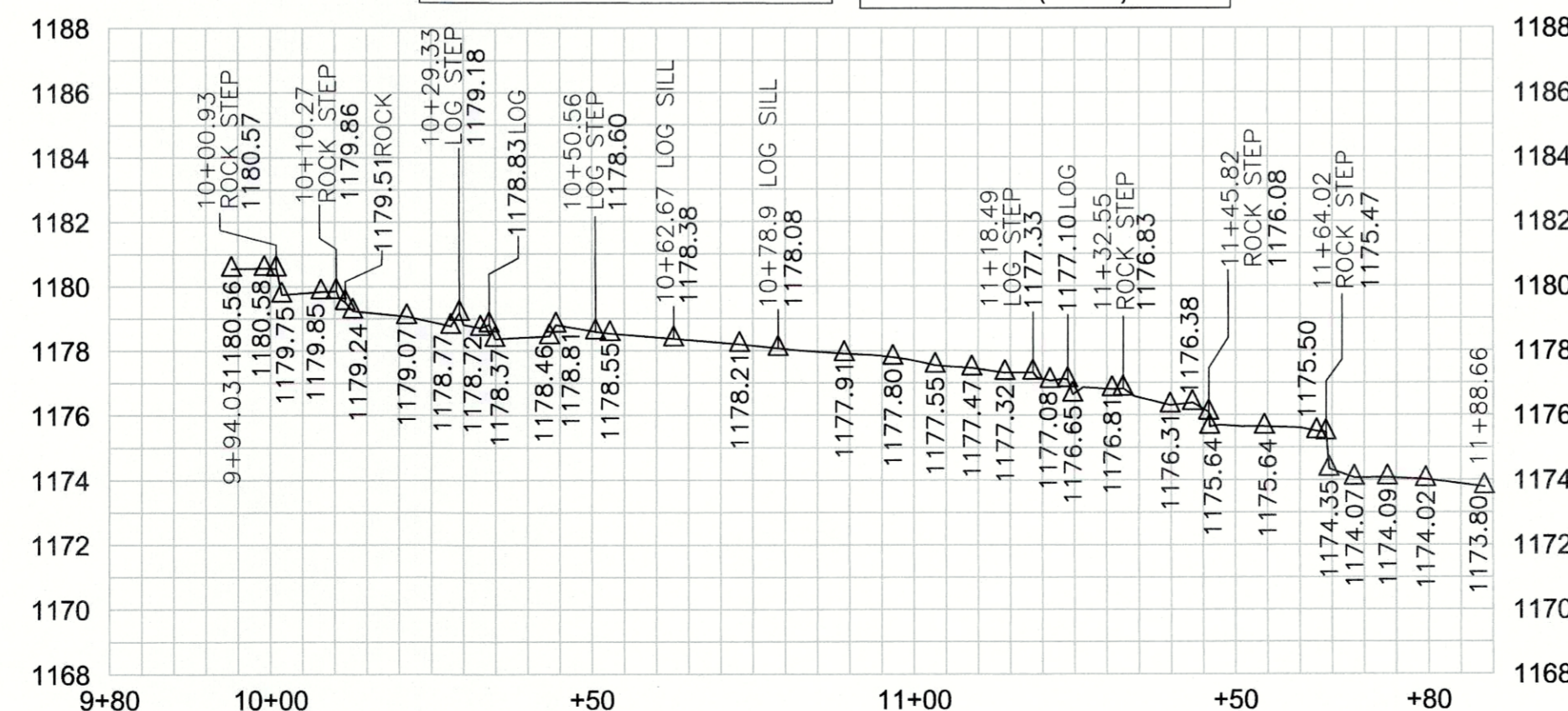


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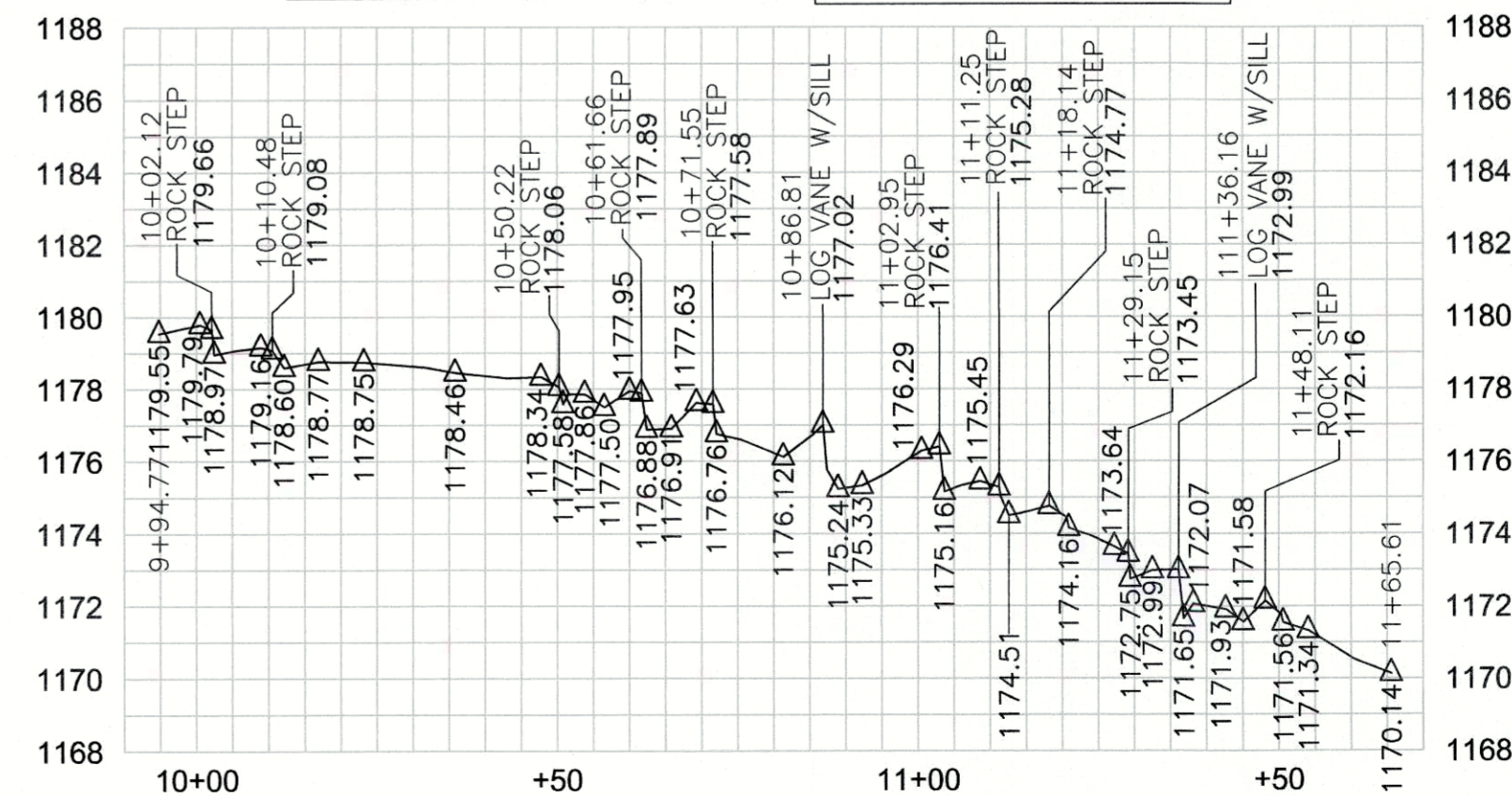
**AS-BUILT PROFILE
 UT1 WALTON
 CRAWLEY BRANCH
 STA 9+94.03 TO 11+88.66**

**PROFILE SCALE
 HORIZONTAL: 1"=25'(22x34)
 1"=50'(11x17)
 VERTICAL: 1"=5'(22x34)
 1"=10'(11x17)**



**AS-BUILT PROFILE
 UT2 DOWNSTREAM
 WALTON CRAWLEY BRANCH
 STA 9+94.77 TO 11+65.61**

**PROFILE SCALE
 HORIZONTAL: 1"=25'(22x34)
 1"=50'(11x17)
 VERTICAL: 1"=5'(22x34)
 1"=10'(11x17)**



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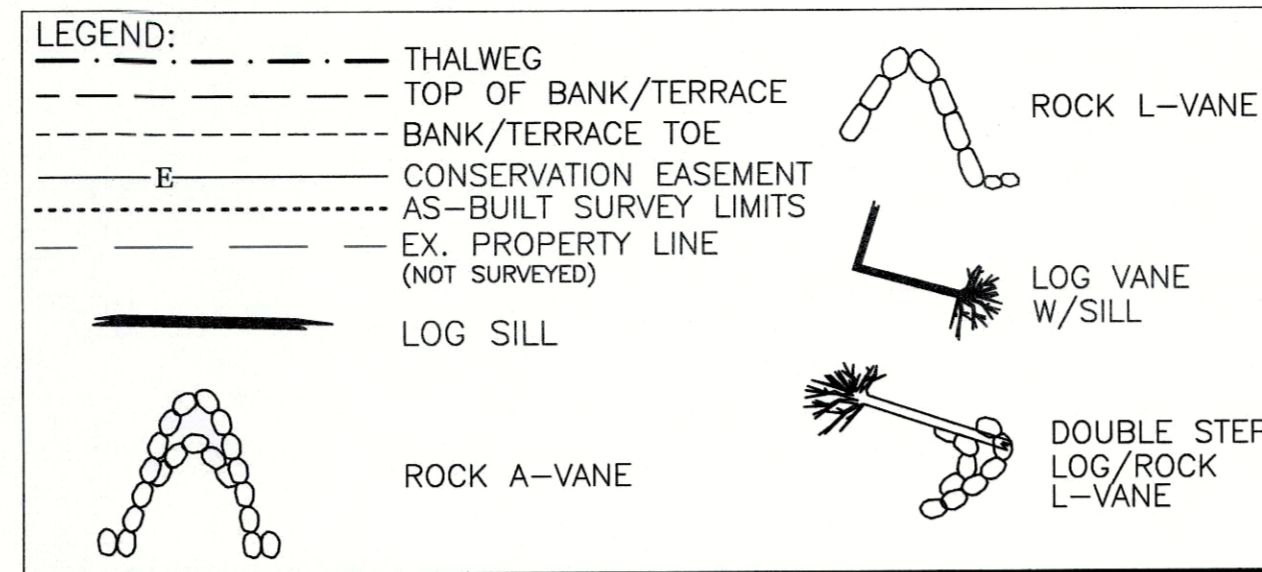
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**UT 1 WALTON CRAWLEY BRANCH &
 UT 2 DOWNSTREAM WALTON CRAWLEY BRANCH
 NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT**
 NCEEP PROJECT#92872
 McDowell County
 North Carolina

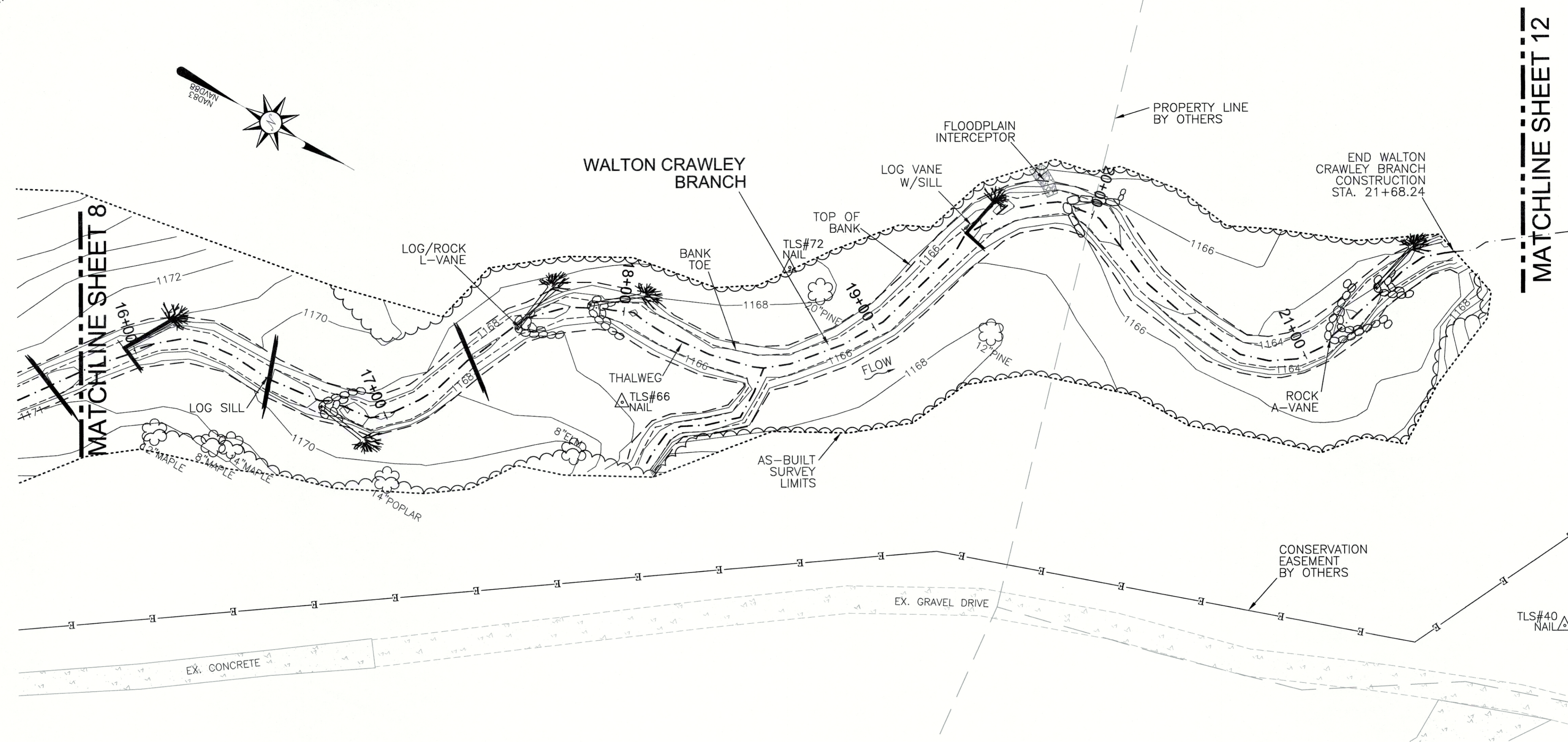
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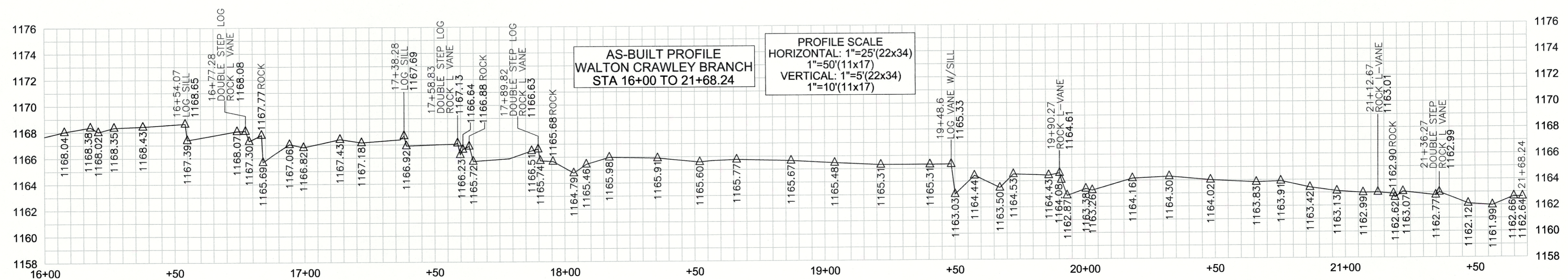
Elisabeth G. Turner
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 SEAL L-4440
 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR
 ELISABETH G. TURNER



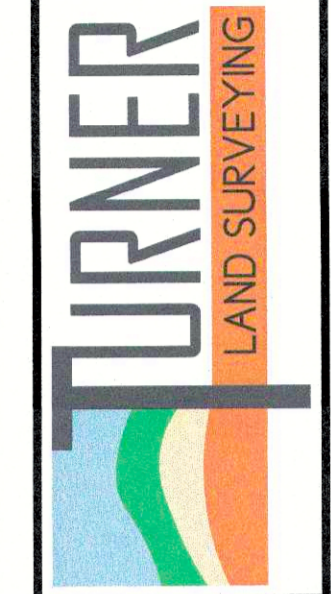
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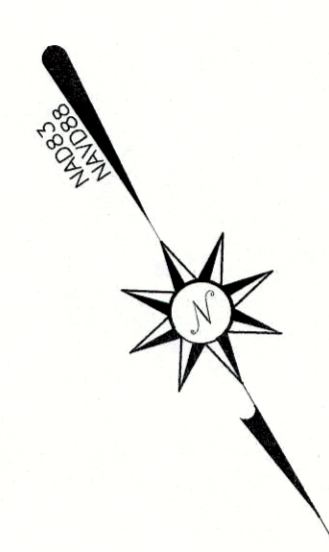
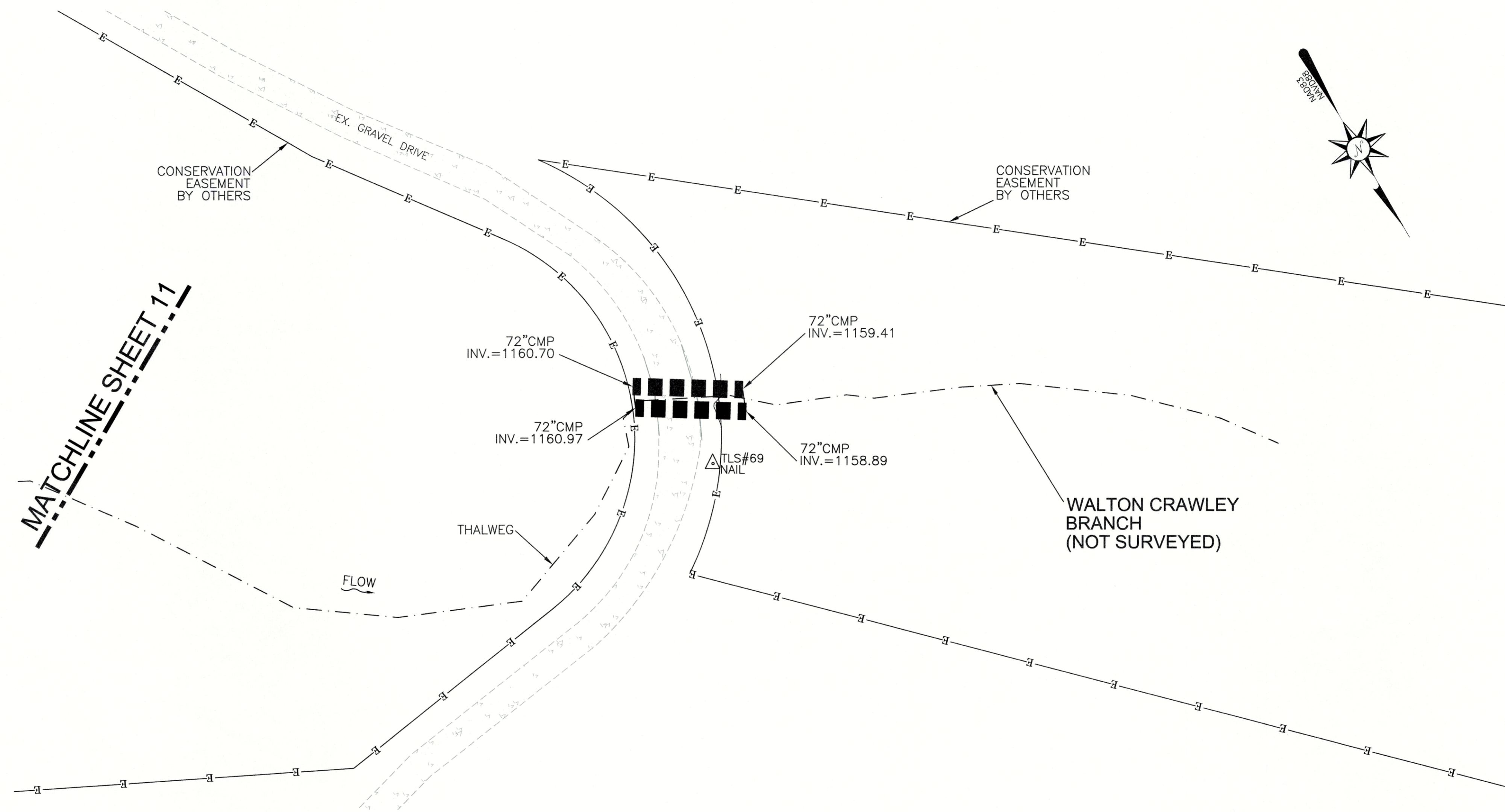


WALTON CRAWLEY BRANCH
 NEIGHBORS BRANCH & WALTON CRAWLEY
 STREAM RESTORATION PROJECT
 NCEEP PROJECT #92872
 MCDOWELL COUNTY
 NORTH CAROLINA
 3719 BENSON DRIVE
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 ELISABETH G. TURNER, P.L.S. #L-4440



LEGEND:

--- (dashed line)	THALWEG
- - - - (long dashed line)	TOP OF BANK/TERRACE
- - - - (short dashed line)	BANK/TERRACE TOE
-E- (line with 'E' markers)	CONSERVATION EASEMENT
- - - - (dotted line)	AS-BUILT SURVEY LIMITS
- - - - (dash-dot line)	EX. PROPERTY LINE (NOT SURVEYED)

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