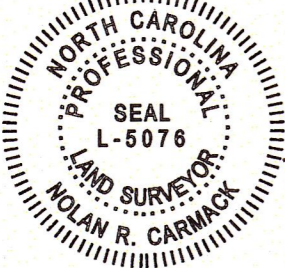


CERTIFICATE OF SURVEY AND ACCURACY

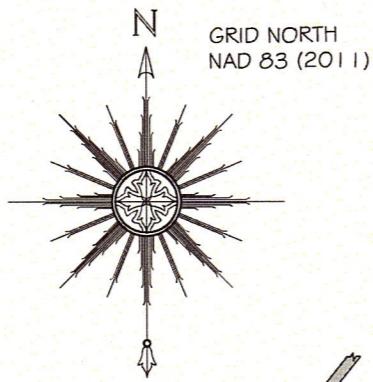
I, NOLAN R. CARMACK, CERTIFY THAT THE GROUND TOPOGRAPHIC SURVEY PORTION OF THIS PROJECT WAS COMPLETED UNDER MY DIRECT SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY DIRECT SUPERVISION; THAT THIS SURVEY WAS PERFORMED AT THE 95% CONFIDENCE LEVEL TO MEET THE FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO THE CLASS A HORIZONTAL AND CLASS C VERTICAL WHERE APPLICABLE; THAT THE ORIGINAL DATA WAS OBTAINED BETWEEN THE DATES OF 02/15/17-02/28/17; THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD AND ALL COORDINATES ARE BASED ON NAD 83 (NSRS 2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88; THAT THE GPS PORTION OF THIS PROJECT WAS TO PERFORM A GRID TIE TO THE NC STATE PLANE COORDINATE SYSTEM AND INFORMATION USED IS SHOWN & NOTED HEREON; THAT THIS MAP MEETS THE SPECIFICATIONS FOR TOPOGRAPHIC SURVEYS AS STATED IN TITLE 21, CHAPTER 56, SECTION .1606; THAT THIS MAP WAS NOT PREPARED IN ACCORDANCE WITH G.S. 47-30, AS AMENDED AND DOES NOT REPRESENT AN OFFICIAL BOUNDARY SURVEY.

GPS METADATA
SEE SURVEY CONTROL MAP FOR WILDLANDS ENGINEERING, INC BY KEE MAPPING & SURVEYING, PA (LICENSE # C-3039); SIGNED, SEALED AND DATED ON OCTOBER 31, 2014 BY NOLAN R. CARMACK, NC PLS (LICENSE #5076).

WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 24TH DAY OF APRIL, 2017, A.D.

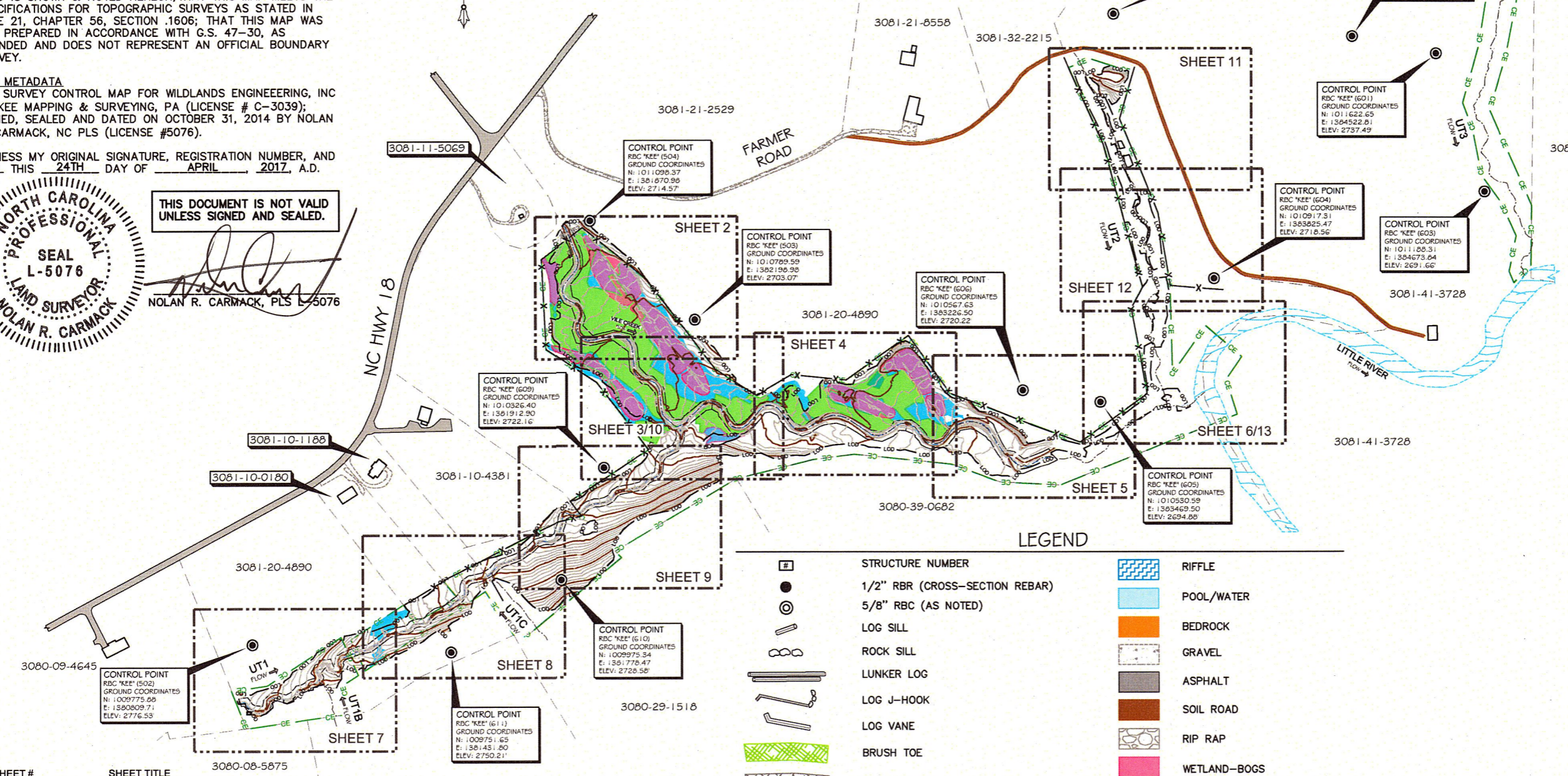
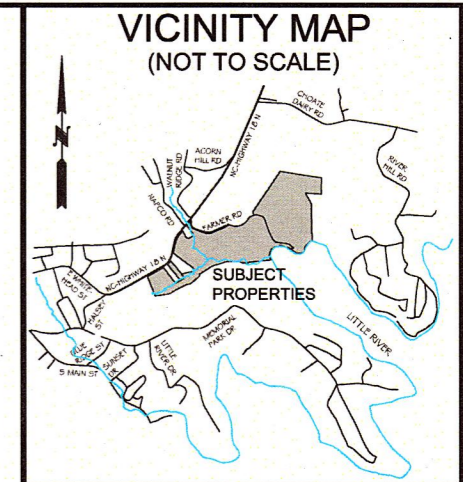


THIS DOCUMENT IS NOT VALID UNLESS SIGNED AND SEALED.
Nolan R. Carmack
NOLAN R. CARMACK, PLS L-5076



AN AS-BUILT SURVEY FOR: WILDLANDS ENGINEERING, INC. "VILE CREEK MITIGATION SITE" ALLEGHANY COUNTY, NORTH CAROLINA

THE STATE OF NORTH CAROLINA,
NCDEQ: DEPARTMENT OF MITIGATION SERVICES,
VILE CREEK MITIGATION SITE
SPO FILE #s: 03-FO, 03-FP, 03-FQ DMS SIDE ID: 96582



LEGEND

[Symbol]	STRUCTURE NUMBER	[Symbol]	RIFFLE
[Symbol]	1/2" RBR (CROSS-SECTION REBAR)	[Symbol]	POOL/WATER
[Symbol]	5/8" RBC (AS NOTED)	[Symbol]	BEDROCK
[Symbol]	LOG SILL	[Symbol]	GRAVEL
[Symbol]	ROCK SILL	[Symbol]	ASPHALT
[Symbol]	LUNKER LOG	[Symbol]	SOIL ROAD
[Symbol]	LOG J-HOOK	[Symbol]	RIP RAP
[Symbol]	LOG VANE	[Symbol]	WETLAND-BOGS
[Symbol]	BRUSH TOE	[Symbol]	WETLAND RE-ESTABLISHMENT
[Symbol]	BOULDER TOE	[Symbol]	WETLAND REHABILITATION
[Symbol]	DECIDUOUS TREE (AS NOTED)	[Symbol]	CONSERVATION EASEMENT
[Symbol]	CONIFEROUS TREE (AS NOTED)	[Symbol]	MINOR CONTOUR
[Symbol]	MONITORING GAUGE (AS NOTED)	[Symbol]	MAJOR CONTOUR
[Symbol]	PHOTO POINT	[Symbol]	LIMITS OF DISTURBANCE
[Symbol]	REBAR W/ CAP	[Symbol]	THALWEG
[Symbol]	INVERT	[Symbol]	TOP OF BANK
[Symbol]	ELEV	[Symbol]	BOTTOM OF BANK
[Symbol]	NAVD	[Symbol]	FENCE
[Symbol]	NAD	[Symbol]	DESIGN CENTERLINE
[Symbol]	SPC	[Symbol]	TREE LINE
[Symbol]	CF	[Symbol]	GIS PARCELS

SHEET #	SHEET TITLE
1	COVER SHEET
2	STREAM DATA: "BEGIN VILE CREEK-REACH 1"
3	STREAM DATA: "VILE CREEK-END REACH 1/BEGIN REACH 2"
4	STREAM DATA: "VILE CREEK-REACH 2"
5	STREAM DATA: "VILE CREEK-END REACH 2/BEGIN REACH 3"
6	STREAM DATA: "VILE CREEK-END REACH 3"
7	STREAM DATA: "UT 1-BEGIN REACH 1 & UT 1 B"
8	STREAM DATA: "UT 1-END REACH 1, BEGIN REACH 2 & UT 1 C"
9	STREAM DATA: "UT 1-REACH 2"
10	STREAM DATA: "UT 1-END REACH 2"
11	STREAM DATA: "BEGIN UT2"
12	STREAM DATA: "UT2"
13	STREAM DATA: "END UT2"
14	STREAM DATA: "CROSS-SECTIONS 1-6"
15	STREAM DATA: "CROSS-SECTIONS 7-11"
16	STREAM DATA: "LONGITUDINAL PROFILE-VILE CREEK"
17	STREAM DATA: "LONGITUDINAL PROFILE-VILE CREEK"
18	STREAM DATA: "LONGITUDINAL PROFILE-VILE CREEK"
19	STREAM DATA: "LONGITUDINAL PROFILE-UT 1"
20	STREAM DATA: "LONGITUDINAL PROFILE-UT 1"
21	STREAM DATA: "LONGITUDINAL PROFILE-UT 1"

SURVEYOR'S NOTES:

- ALL DISTANCES AND COORDINATES ARE GROUND MEASUREMENTS IN US SURVEY FEET UNLESS OTHERWISE NOTED.
- PROPERTY SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS AND RESTRICTIONS THAT ARE RECORDED, UNRECORDED, WRITTEN AND UNWRITTEN.
- CONSERVATION EASEMENT BOUNDARIES SHOWN HEREON WERE TAKEN FROM A PLAT OF A SURVEY ENTITLED: "A FINAL PLAT OF A CONSERVATION EASEMENT SURVEY FOR STATE OF NORTH CAROLINA, DIVISION OF MITIGATION SERVICES, VILE CREEK STREAM & WETLAND MITIGATION SITE", PREPARED BY KEE MAPPING & SURVEYING, AND RECORDED IN PLAT BOOK 10 PAGES 444-446 OF THE ALLEGHANY COUNTY REGISTRY.
- BY GRAPHIC DETERMINATION, A PORTION OF THE SUBJECT PROPERTY APPEARS TO LIE WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) AS DETERMINED BY THE F.E.M.A. MAP# 3711308100J DATED 09/02/2009.
- STATE PLANE COORDINATES AND ELEVATIONS WERE DERIVED FROM THE CONTROL & EXISTING CONDITIONS TOPOGRAPHIC SURVEY PREPARED BY KEE MAPPING & SURVEYING. THE HORIZONTAL DATUM IS NAD 83 (2011) AND THE VERTICAL DATUM IS NAVD(88). ALL COORDINATES SHOWN HEREON ARE GROUND MEASUREMENTS IN US SURVEY FEET.
- UTILITIES WERE LOCATED BASED ON VISIBLE ABOVE GROUND STRUCTURES, THEREFORE THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE OR MAY BE PRESENT AND NOT SHOWN HEREON. CALL 1-800-632-4949 BEFORE DIGGING.
- STATIONING FOR PLAN AND PROFILES ARE BASED OFF OF DESIGN CENTERLINES PROVIDED BY WILDLANDS ENGINEERING, INC.
- CONTOUR INTERVAL: 1 FOOT
VERTICAL DATUM: NAVD 88
- LIMITS OF DISTURBANCE AREA: 16.51 ACRES

THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.



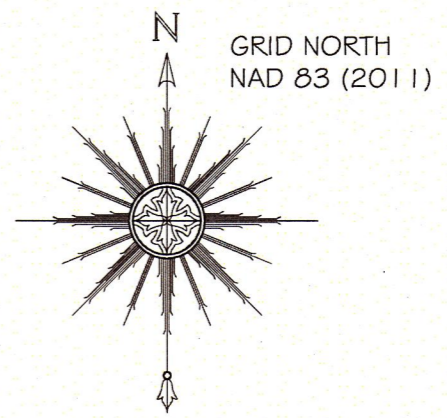
SHEET SIZE: 11"X 17"
SHEET:

1 OF 21

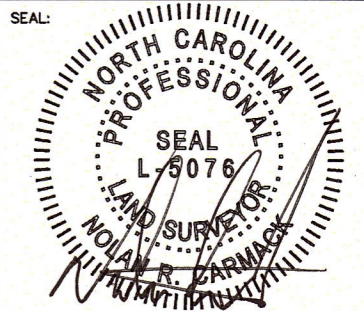
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BEGIN VILE CREEK
REACH I
STA: 101+29

CONTROL POINT
RBC "KEE" (504)
GROUND COORDINATES
N: 1011098.37
E: 1381870.98
ELEV: 2714.57'



GRID NORTH
NAD 83 (2011)



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION
NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

VILE CREEK STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
1	LOG SILL	2701.92'
2	LOG SILL	2700.99'
3	LOG J-HOOK	2700.31'
4	LOG SILL	2697.75'

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
BEGIN VILE CREEK
REACH 1

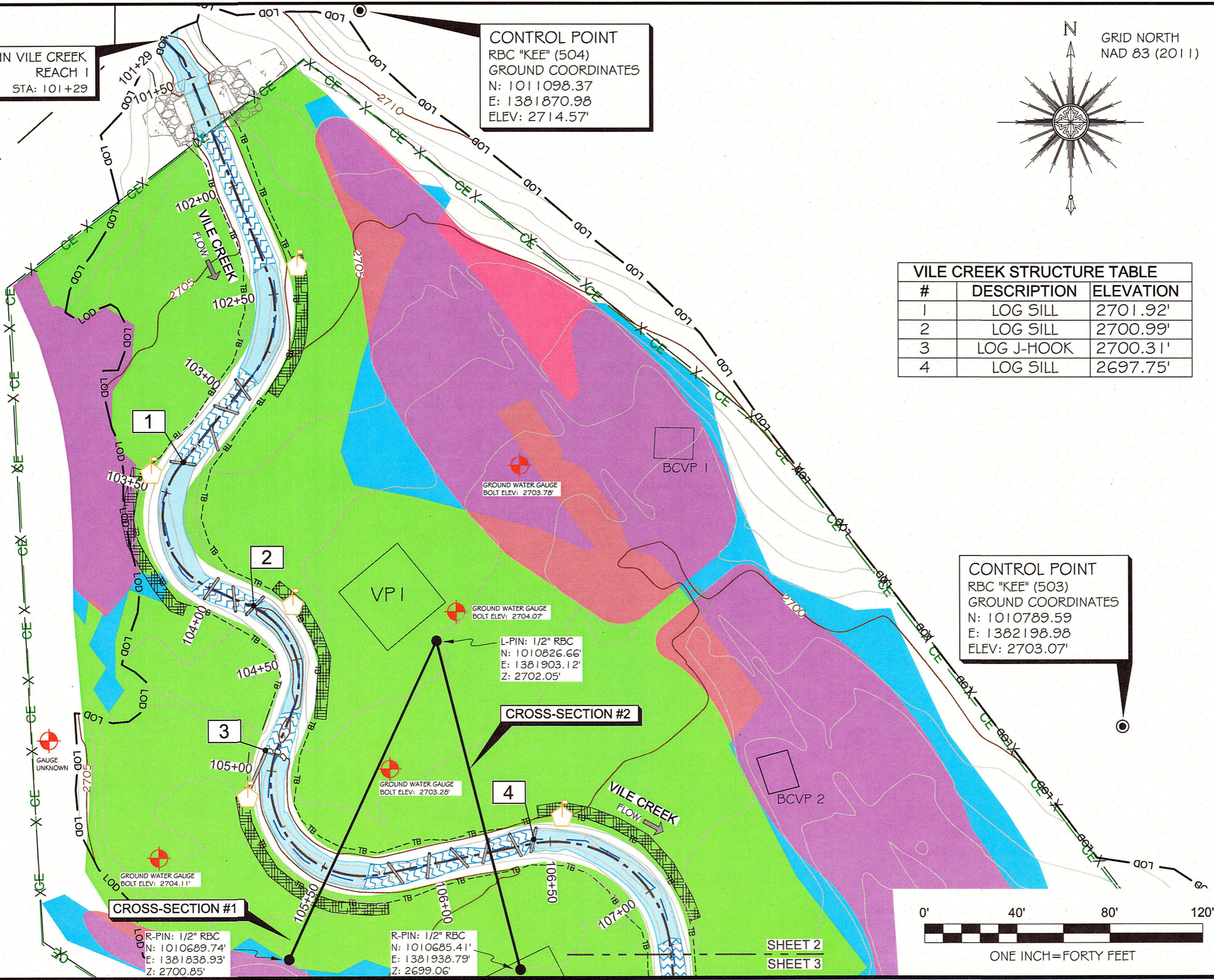
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

SHEET:
2 OF **21**



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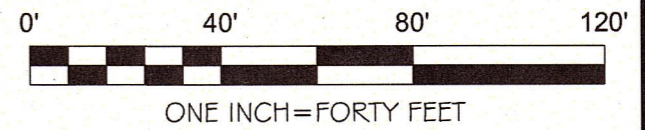


CONTROL POINT
RBC "KEE" (503)
GROUND COORDINATES
N: 1010789.59
E: 1382198.98
ELEV: 2703.07'

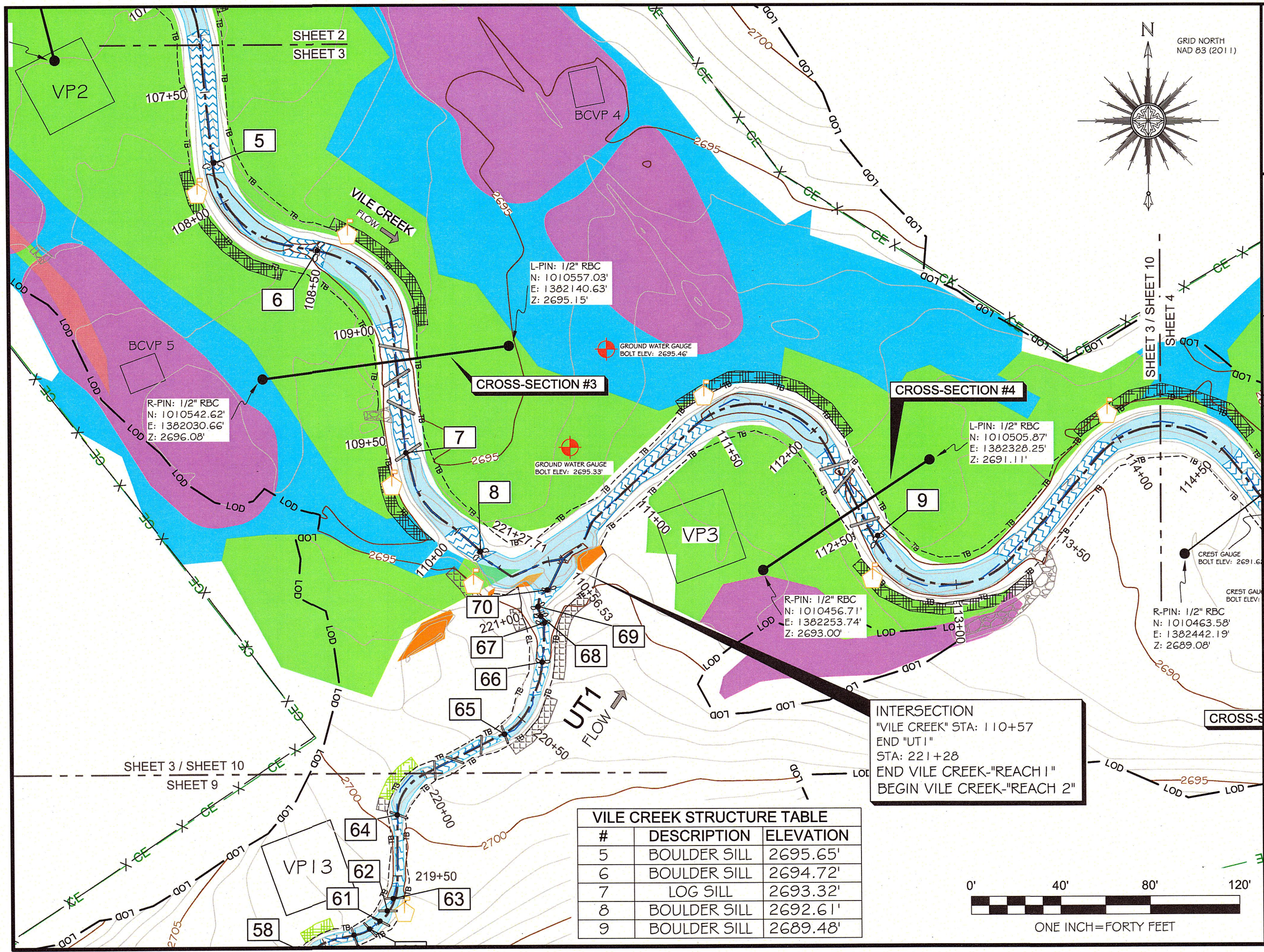
L-PIN: 1/2" RBC
N: 1010826.66'
E: 1381903.12'
Z: 2702.05'

R-PIN: 1/2" RBC
N: 1010689.74'
E: 1381838.93'
Z: 2700.85'

R-PIN: 1/2" RBC
N: 1010685.41'
E: 1381938.79'
Z: 2699.06'



SHEET 2
SHEET 3



SEAL:
 NORTH CAROLINA
 PROFESSIONAL
 LAND SURVEYOR
 L-5076
 NOLAN R. CARMACK

PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
 VILE CREEK
 MITIGATION SITE

SHEET TITLE:
 STREAM DATA:
 VILE CREEK
 END REACH 1
 BEGIN REACH 2

TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	SHEET SIZE: 11" X 17"
JOB: #1612214-AB		
#	DATE	REVISIONS

SHEET:
 3 OF 21

Kee
 MAPPING & SURVEYING

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L-PIN: 1/2" RBC
 N: 1010557.03'
 E: 1382140.63'
 Z: 2695.15'

GROUND WATER GAUGE
 BOLT ELEV: 2695.46'

CROSS-SECTION #3

GROUND WATER GAUGE
 BOLT ELEV: 2695.33'

CROSS-SECTION #4

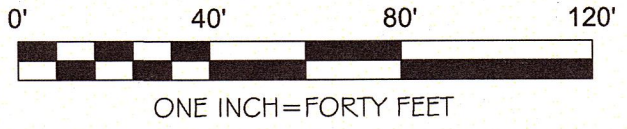
L-PIN: 1/2" RBC
 N: 1010505.87'
 E: 1382328.25'
 Z: 2691.11'

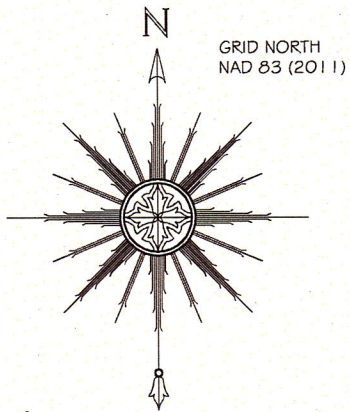
R-PIN: 1/2" RBC
 N: 1010456.71'
 E: 1382253.74'
 Z: 2693.00'

R-PIN: 1/2" RBC
 N: 1010463.58'
 E: 1382442.19'
 Z: 2689.08'

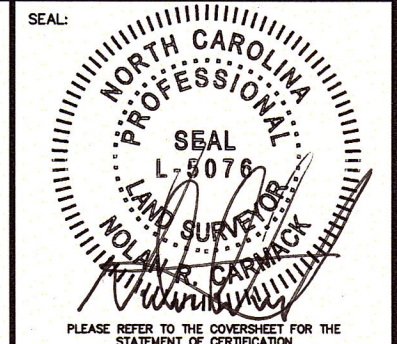
INTERSECTION
 "VILE CREEK" STA: 110+57
 END "UT1"
 STA: 221+28
 END VILE CREEK-"REACH 1"
 BEGIN VILE CREEK-"REACH 2"

#	DESCRIPTION	ELEVATION
5	BOULDER SILL	2695.65'
6	BOULDER SILL	2694.72'
7	LOG SILL	2693.32'
8	BOULDER SILL	2692.61'
9	BOULDER SILL	2689.48'





VILE CREEK STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
10	LOG J-HOOK	2684.97'
11	LOG J-HOOK	2681.85'
12	LOG J-HOOK	2680.45'



NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
VILE CREEK
REACH 2

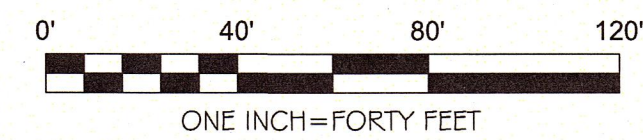
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

SHEET:
4 OF **21**

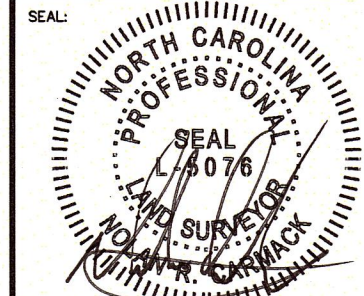
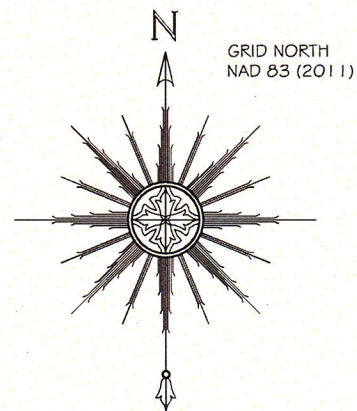


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VILE CREEK STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
13	LOG SILL	2678.80'
14	BOULDER SILL	2678.20'
15	BOULDER SILL	2675.33'

CONTROL POINT
 RBC "KEE" (GOG)
 GROUND COORDINATES
 N: 1010567.63
 E: 1383226.50
 ELEV: 2720.22'



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
 VILE CREEK
 MITIGATION SITE

SHEET TITLE:
 STREAM DATA:
 VILE CREEK
 END REACH 2
 BEGIN REACH 3

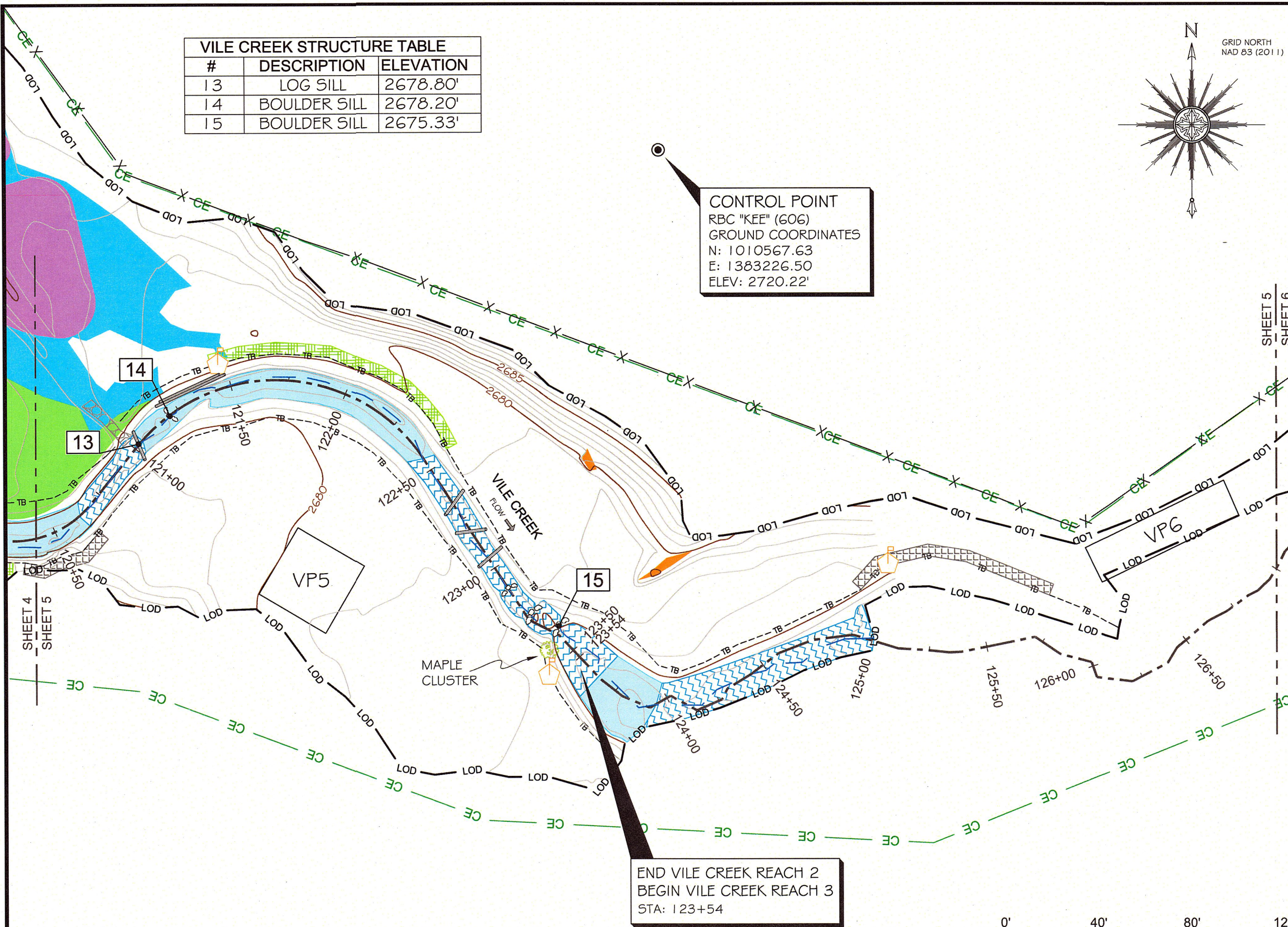
TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

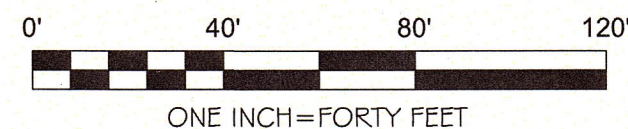
SHEET:
5 OF **21**

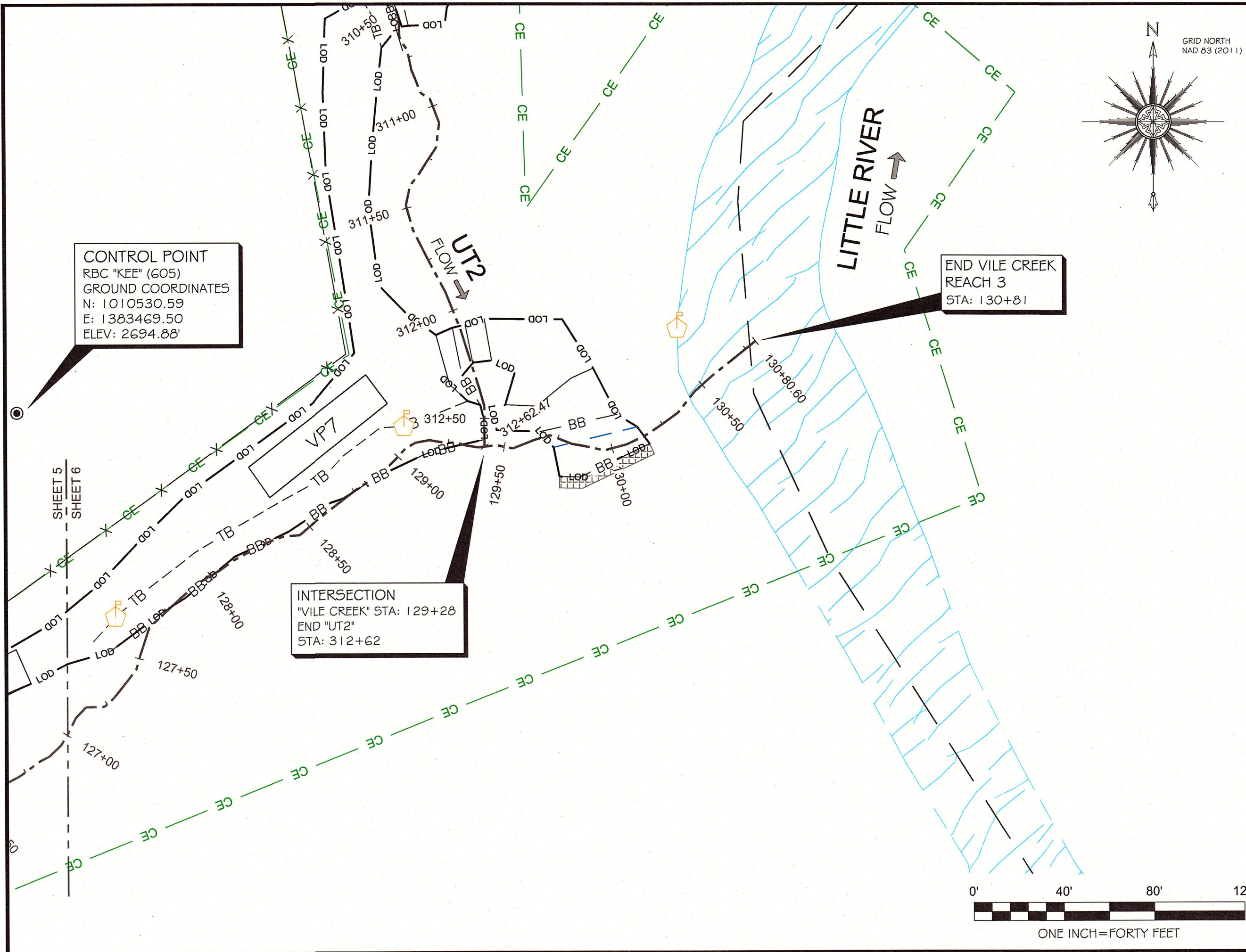


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END VILE CREEK REACH 2
 BEGIN VILE CREEK REACH 3
 STA: 123+54

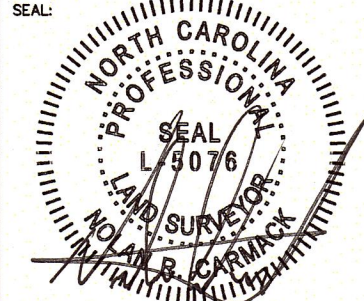
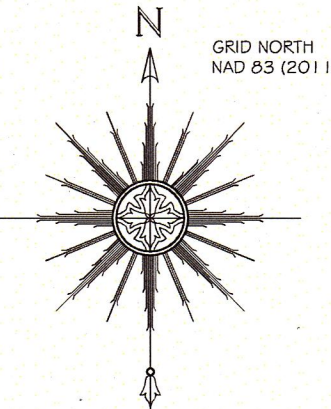




CONTROL POINT
RBC "KEE" (605)
GROUND COORDINATES
N: 1010530.59
E: 1383469.50
ELEV: 2694.88'

INTERSECTION
"VILE CREEK" STA: 129+28
END "UT2"
STA: 312+62

END VILE CREEK
REACH 3
STA: 130+81



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION
NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
VILE CREEK-
END REACH 3

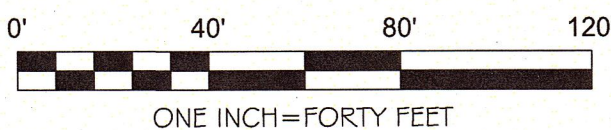
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

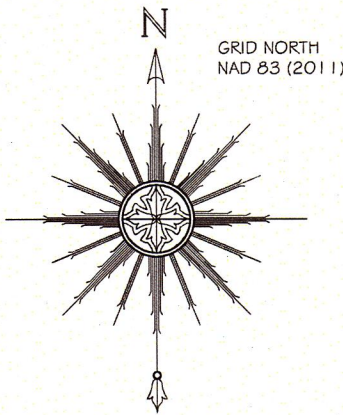
#	DATE	REVISIONS

SHEET:
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UT1 STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
16	LOG SILL	2747.74'
17	LOG SILL	2745.98'
18	LOG SILL	2744.50'
19	LOG SILL	2743.68'
20	LOG SILL	2742.60'
21	LOG SILL	2741.04'
22	BOULDER SILL	2739.56'
23	LOG SILL	2739.35'
24	LOG SILL	2738.68'
25	LOG SILL	2738.15'
26	LOG SILL	2736.99'
27	LOG SILL	2736.16'
28	BOULDER SILL	2735.39'
29	LOG SILL	2734.64'
30	LOG SILL	2734.10'
31	BOULDER SILL	2733.05'
32	LOG SILL	2732.09'

CONTROL POINT
RBC "KEE" (502)
GROUND COORDINATES
N: 1009775.88
E: 1380809.71
ELEV: 2776.53'

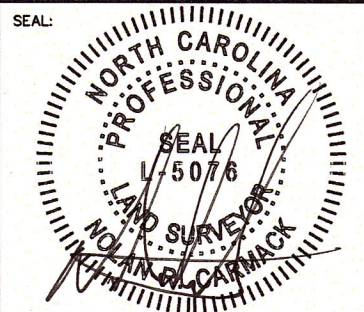
L-PIN: 1/2" RBC
N: 1009654.58'
E: 1380907.97'
Z: 2744.26'

R-PIN: 1/2" RBC
N: 1009570.56'
E: 1380898.35'
Z: 2745.57'

INTERSECTION
"UT1" STA: 204+91
END "UT1B"
STA: 251+64

BEGIN UT1 REACH 1
STA: 201+57

BEGIN UT1B
STA: 250+00



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION
NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
**VILE CREEK
MITIGATION SITE**

SHEET TITLE:
**STREAM DATA:
UT1-REACH 1 &
UT1B**

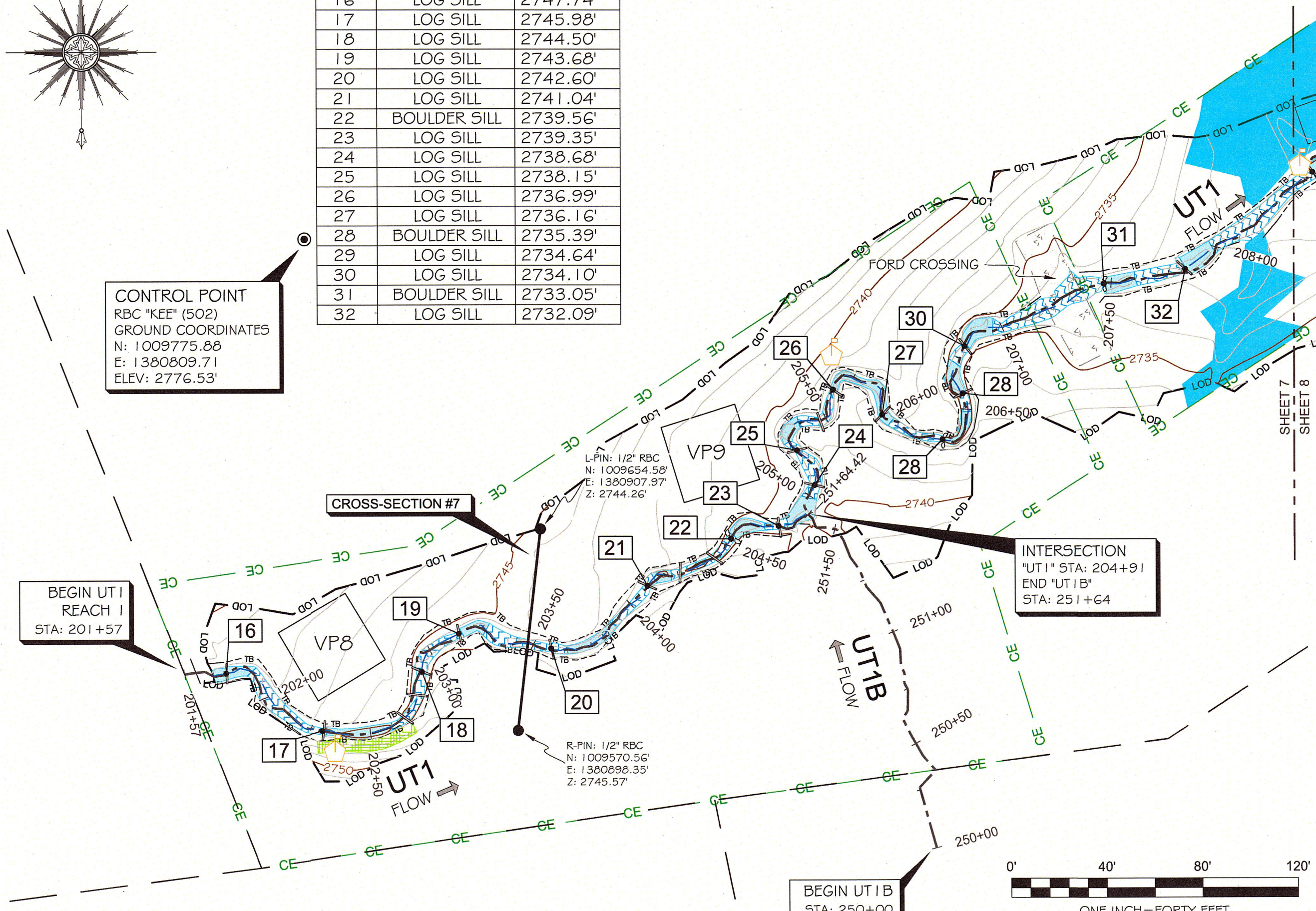
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	SHEET SIZE: 11" X 17"
JOB: #1612214-AB		

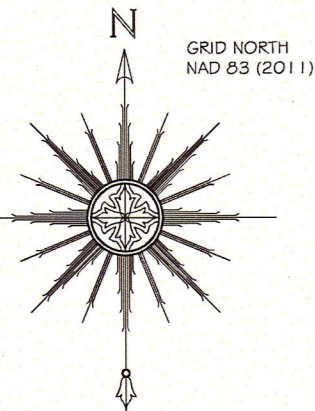
#	DATE	REVISIONS

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INTERSECTION
 "UT1" STA: 212+74
 END "UT1C"
 STA: 277+81
 END UT1-"REACH 1"
 BEGIN UT1-"REACH 2"

L-PIN: 1/2" RBC
 N: 1009945.91'
 E: 1381377.65'
 Z: 2725.25'

L-PIN: 1/2" RBC
 N: 1009923.41'
 E: 1381348.61'
 Z: 2725.98'

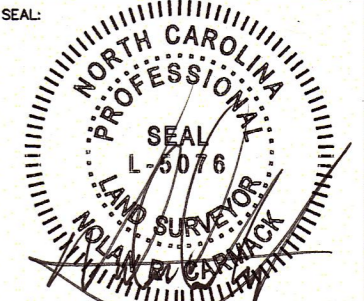
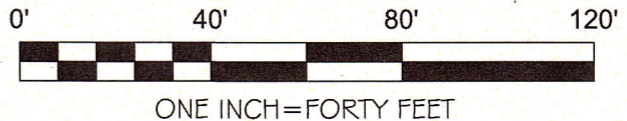
CROSS-SECTION #9

R-PIN: 1/2" RBC
 N: 1009830.61'
 E: 1381418.48'
 Z: 2733.59'

R-PIN: 1/2" RBC
 N: 1009824.00'
 E: 1381407.17'
 Z: 2733.95'

CONTROL POINT
 RBC "KEE" (611)
 GROUND COORDINATES
 N: 1009751.65
 E: 1381431.80
 ELEV: 2750.21'

UT1 STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
33	LOG SILL	2730.23'
34	LOG SILL	2728.48'
35	LOG SILL	2727.68'
36	LOG SILL	2726.51'
37	LOG SILL	2725.79'
38	LOG SILL	2724.45'
39	LOG SILL	2724.26'
40	LOG SILL	2724.03'
41	LOG SILL	2723.32'
42	LOG SILL	2722.78'
43	LOG SILL	2721.62'
44	LOG SILL	2721.12'
45	BOULDER SILL	2719.13'
46	LOG SILL	2717.88'
47	LOG SILL	2715.12'
48	LOG SILL	2714.78'
49	LOG SILL	2714.63'
50	LOG SILL	2714.56'
51	LOG SILL	2714.21'



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION
 NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
 VILE CREEK
 MITIGATION SITE

SHEET TITLE:
 STREAM DATA:
 UT1-END REACH 1
 BEGIN REACH 2
 UT1C

TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
DRAWN BY: NH	CHECKED BY: NC	
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	SHEET SIZE: 11" X 17"
JOB: #1612214-AB		

#	DATE	REVISIONS

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SHEET 7
 SHEET 8

SHEET 8
 SHEET 9

BEGIN UT1C
 STA: 275+00

UT1
 FLOW

UT1C
 FLOW

GRID NORTH
 NAD 83 (2011)

MAPLE
 CLUSTER

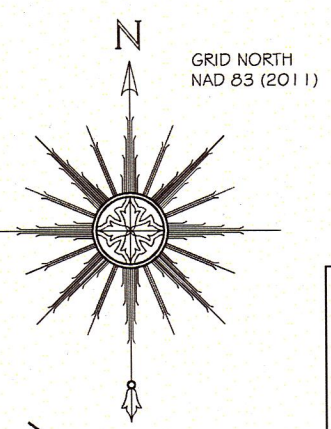
VP11

VP10

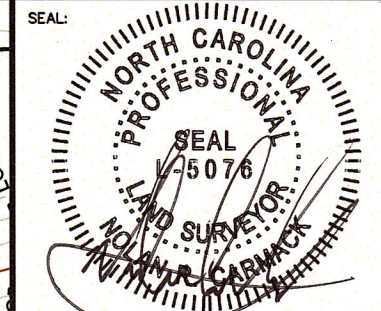
CROSS-SECTION #8

CROSS-SECTION #9

SHEET:



CONTROL POINT
RBC "KEE" (609)
GROUND COORDINATES
N: 1010326.40
E: 1381912.90
ELEV: 2722.16'



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION
NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
UT1-REACH 2

TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

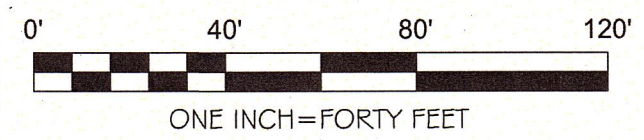
SHEET:
9 OF **21**



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UT1
FLOW

#	DESCRIPTION	ELEVATION
52	LOG SILL	2713.05'
53	BOULDER SILL	2710.48'
54	LOG SILL	2708.47'
55	LOG SILL	2706.56'
56	LOG SILL	2705.25'
57	LOG SILL	2702.66'
58	LOG SILL	2701.58'
59	LOG SILL	2700.91'
60	LOG SILL	2700.65'
61	LOG SILL	2700.56'
62	LOG SILL	2700.37'
63	LOG SILL	2700.17'
64	LOG SILL	2698.83'



CROSS-SECTION #11

CROSS-SECTION #10

R-PIN: 1/2" RBC
N: 1010109.34'
E: 1381817.42'
Z: 2713.65'

R-PIN: 1/2" RBC
N: 1010064.72'
E: 1381789.67'
Z: 2717.94'

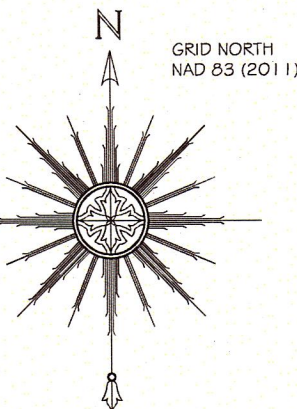
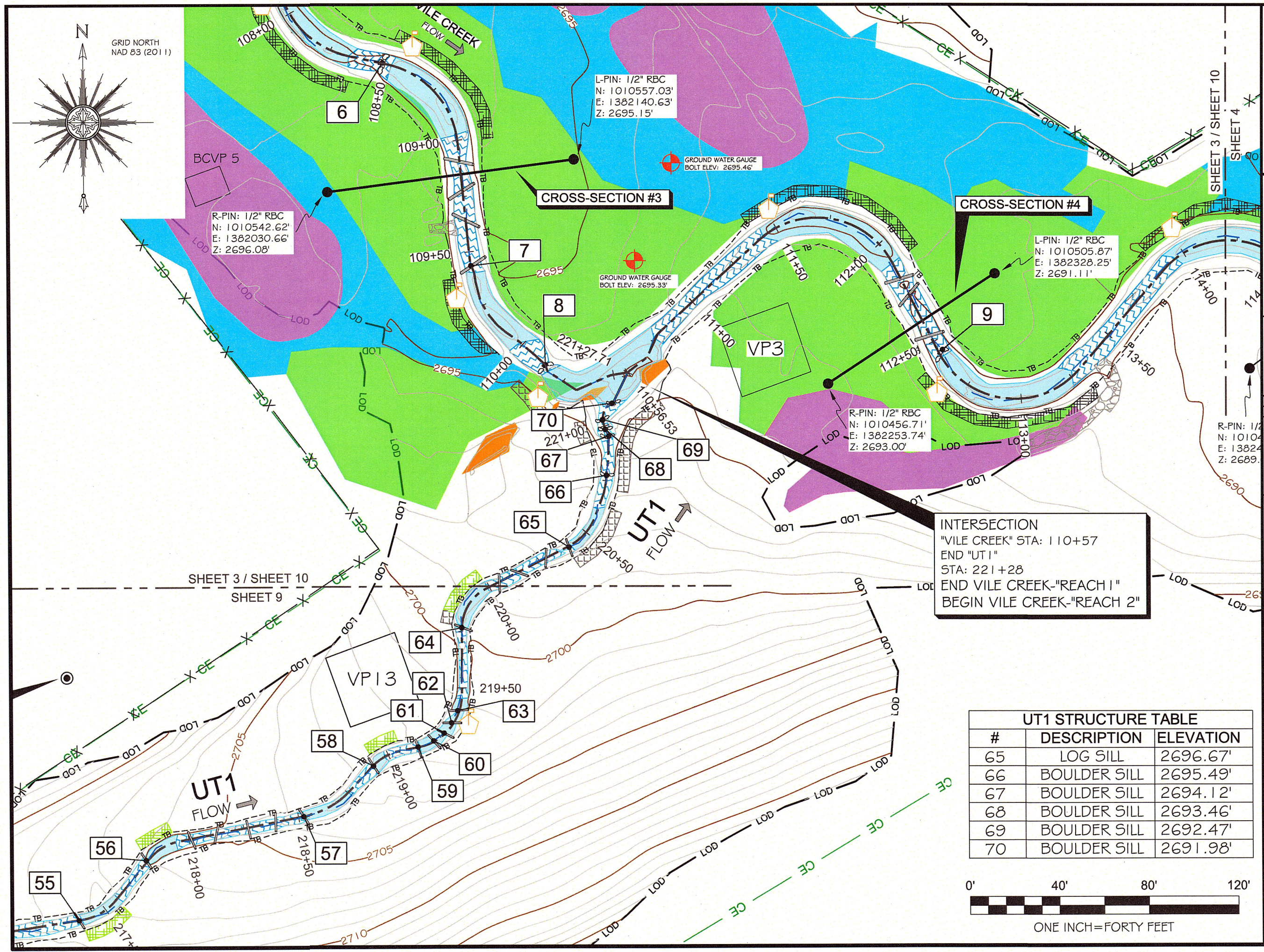
VP12

VP13

24" MAPLE

2" PINE

SHEET 8
SHEET 9

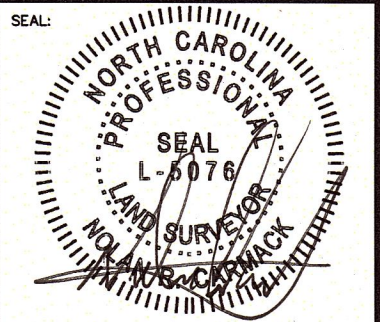
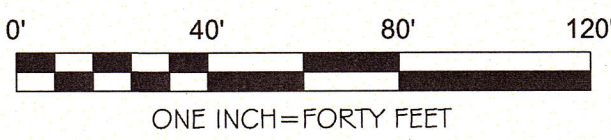


SHEET 3 / SHEET 10
SHEET 9

SHEET 3 / SHEET 10
SHEET 4

INTERSECTION
"VILE CREEK" STA: 110+57
END "UT1"
STA: 221+28
END VILE CREEK-"REACH 1"
BEGIN VILE CREEK-"REACH 2"

UT1 STRUCTURE TABLE		
#	DESCRIPTION	ELEVATION
65	LOG SILL	2696.67'
66	BOULDER SILL	2695.49'
67	BOULDER SILL	2694.12'
68	BOULDER SILL	2693.46'
69	BOULDER SILL	2692.47'
70	BOULDER SILL	2691.98'



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NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
END UT1-REACH 2

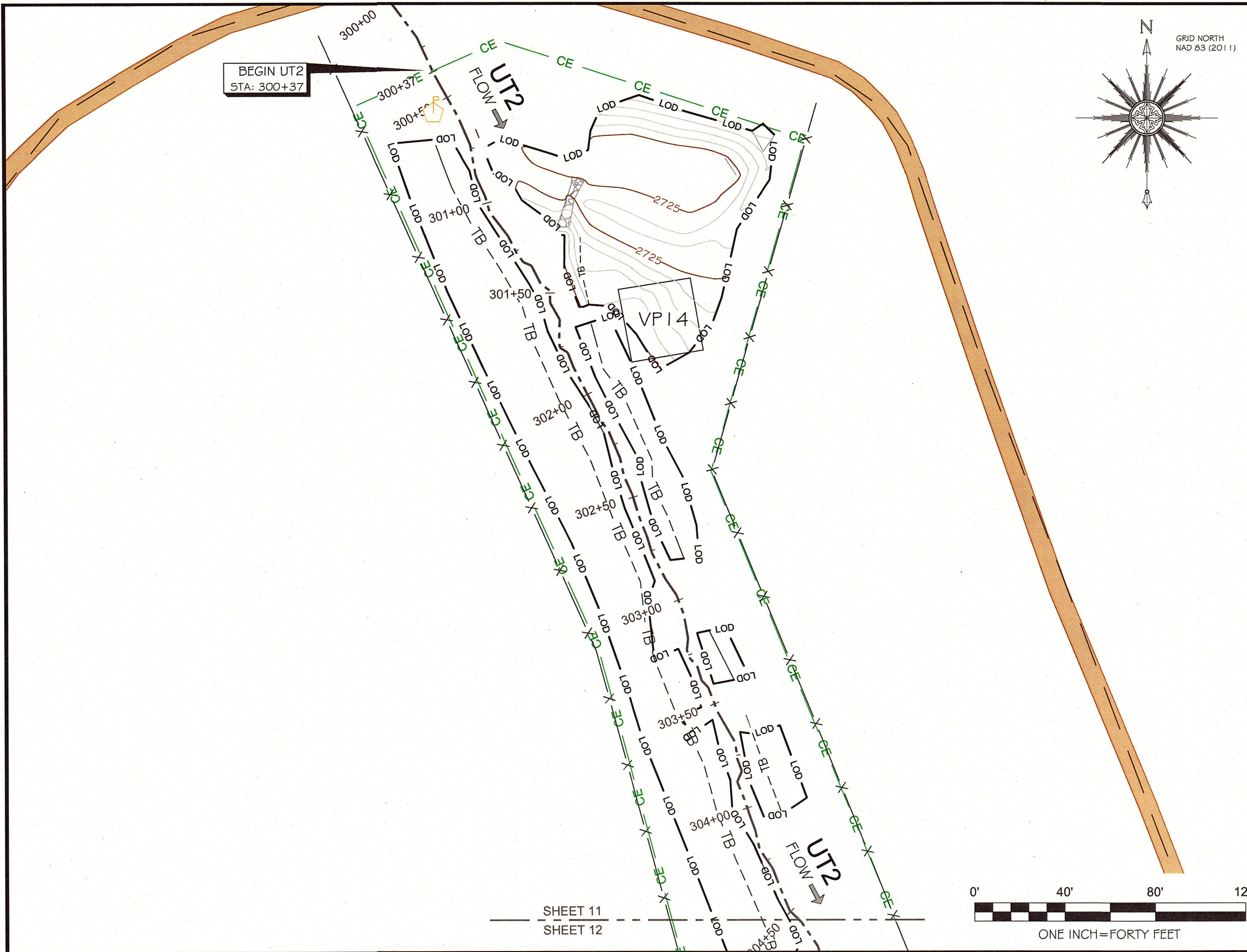
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

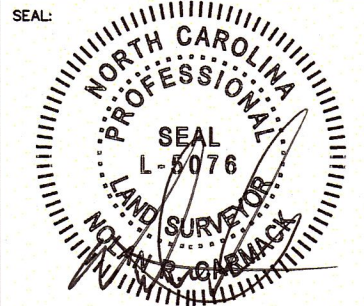
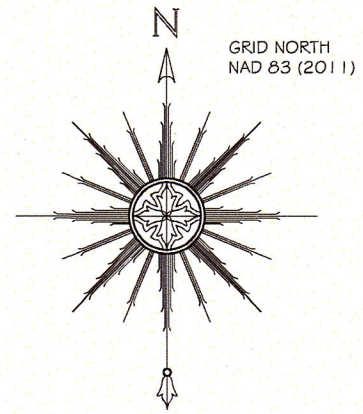
SHEET:
10 OF **21**



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BEGIN UT2
STA: 300+37



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NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
BEGIN UT2

TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

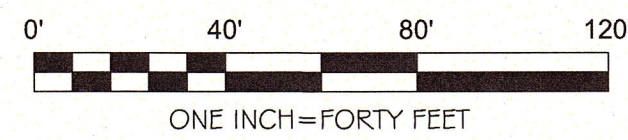
#	DATE	REVISIONS

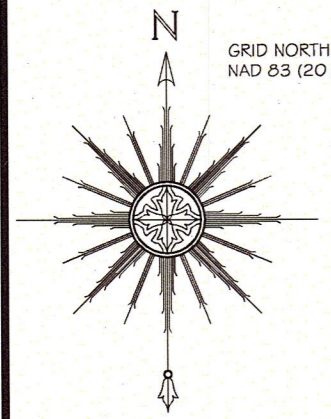
SHEET:
11 OF 21



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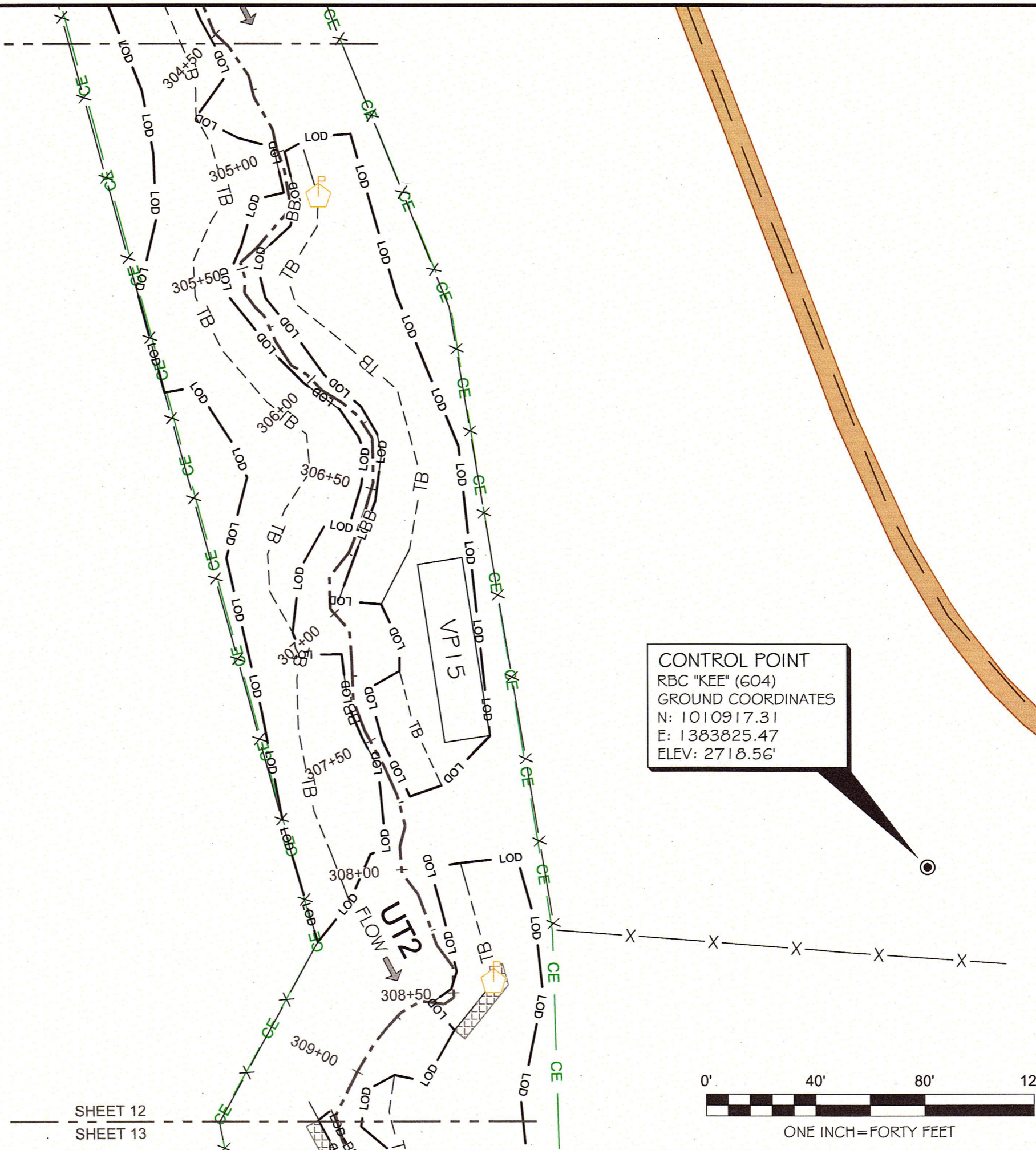
SHEET 11
SHEET 12



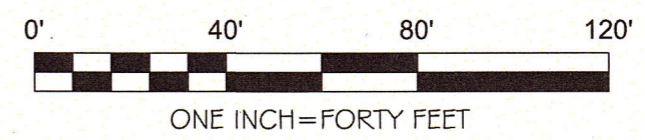


GRID NORTH
NAD 83 (2011)

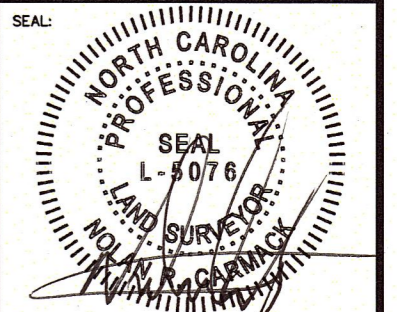
SHEET 11
SHEET 12



CONTROL POINT
RBC "KEE" (604)
GROUND COORDINATES
N: 1010917.31
E: 1383825.47
ELEV: 2718.56'



SHEET 12
SHEET 13



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
UT2

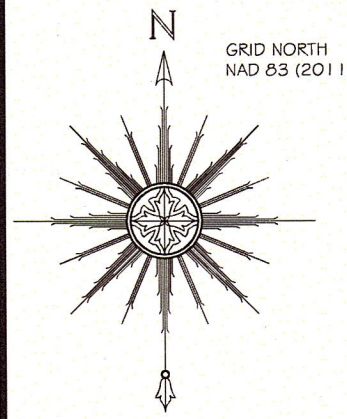
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

SHEET:
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SHEET 12
SHEET 13

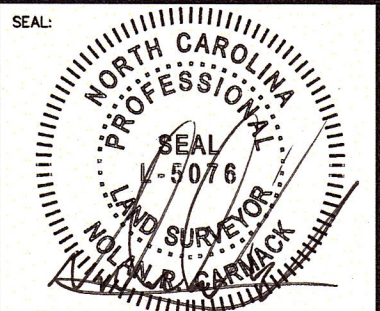
CONTROL POINT
RBC "KEE" (605)
GROUND COORDINATES
N: 1010530.59
E: 1383469.50
ELEV: 2694.88'

INTERSECTION
"VILE CREEK" STA: 129+28
END "UT2"
STA: 312+62

END VILE CREEK
REACH 3
STA: 130+81

LITTLE RIVER
FLOW

UT2
FLOW



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
STREAM DATA:
END UT2

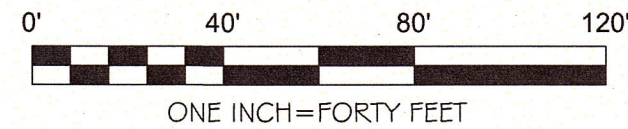
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

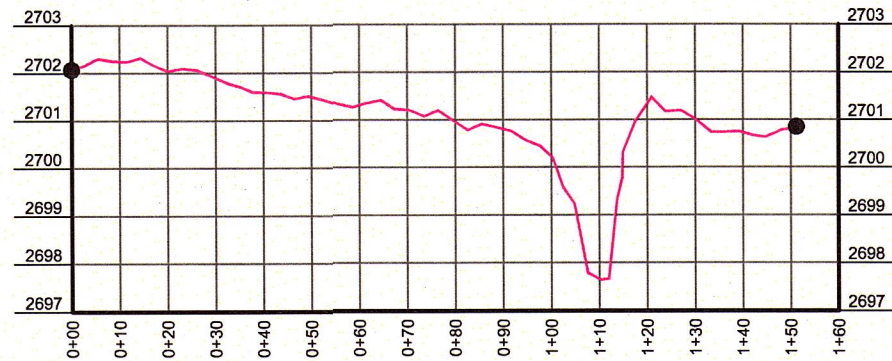
#	DATE	REVISIONS

SHEET:
13 OF **21**

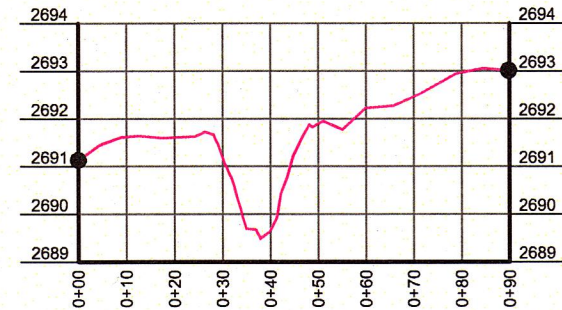


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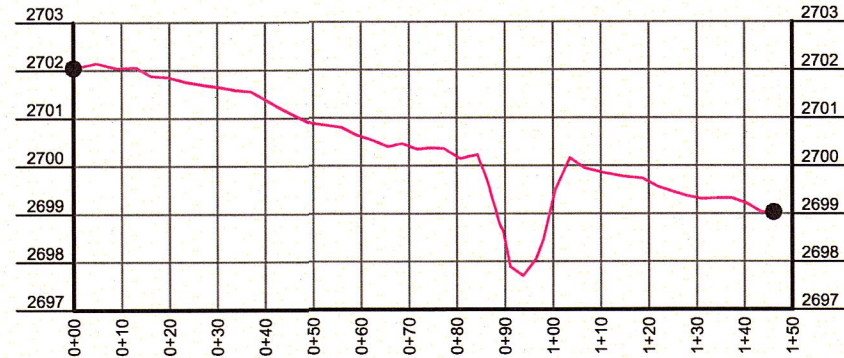




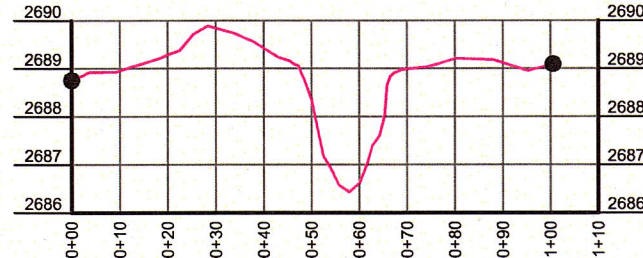
CROSS-SECTION #1-VILE CREEK (REACH 1)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'



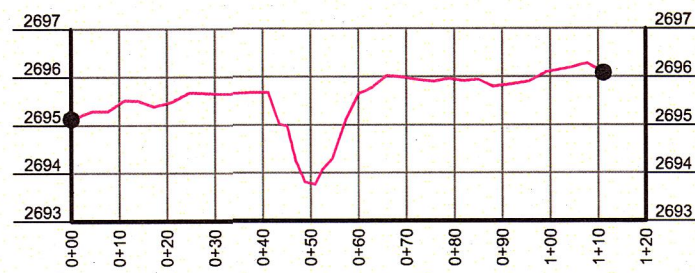
CROSS-SECTION #4-VILE CREEK (REACH 2)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'



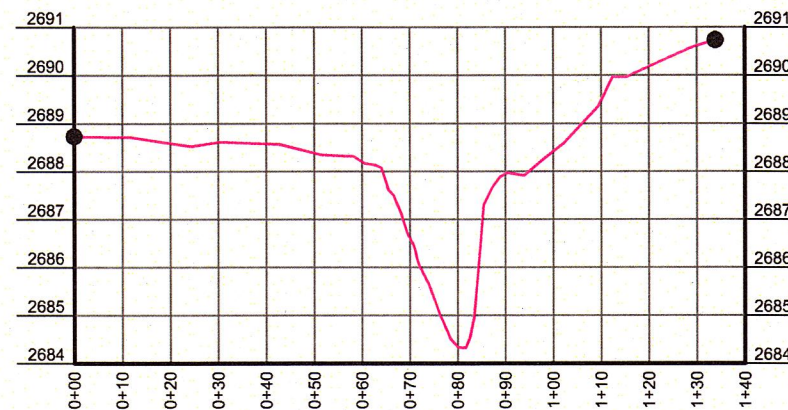
CROSS-SECTION #2-VILE CREEK (REACH 1)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'



CROSS-SECTION #5-VILE CREEK (REACH 2)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'

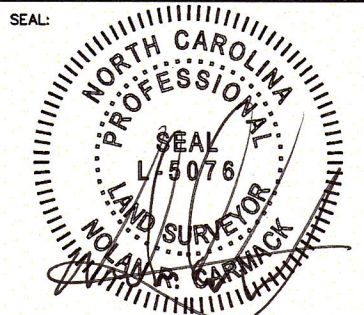


CROSS-SECTION #3-VILE CREEK (REACH 1)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'



CROSS-SECTION #6-VILE CREEK (REACH 2)
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'

LEGEND
 ● CROSS-SECTION REBAR



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
 VILE CREEK
 MITIGATION SITE

SHEET TITLE:
 STREAM DATA:
 CROSS-SECTIONS
 1, 2, 3, 4, 5 & 6

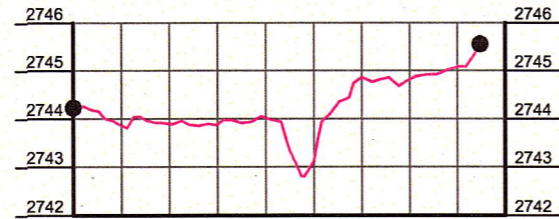
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

SHEET:
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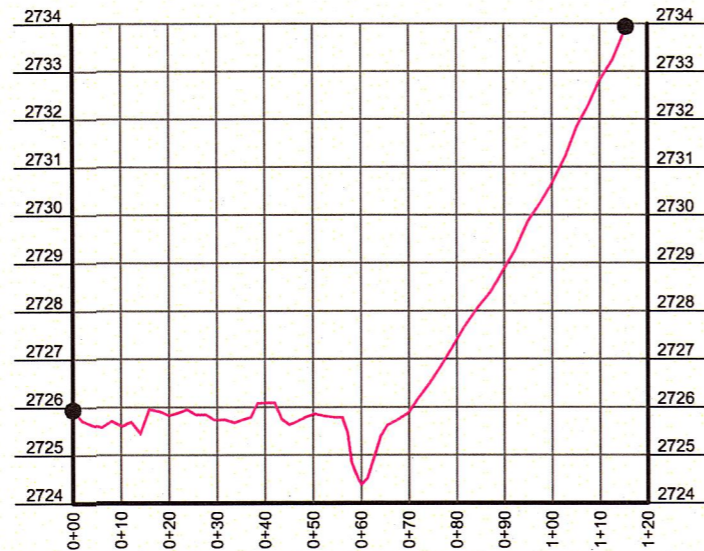


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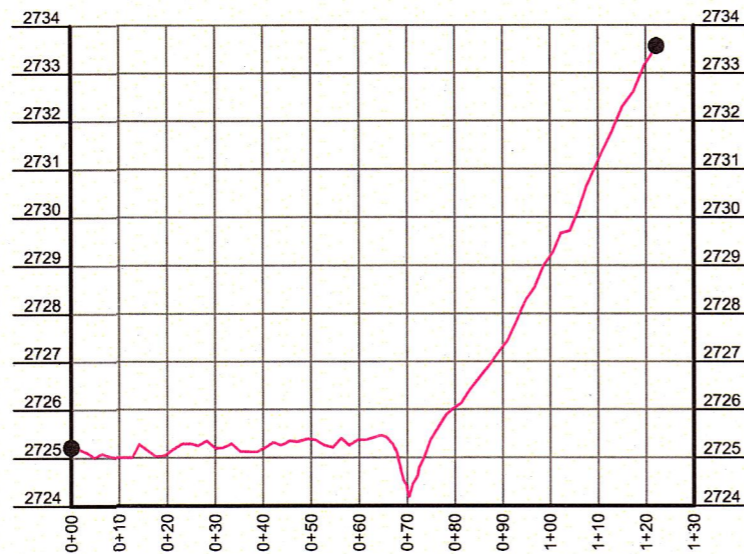
CROSS-SECTION #7-UT1 (REACH 1)

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



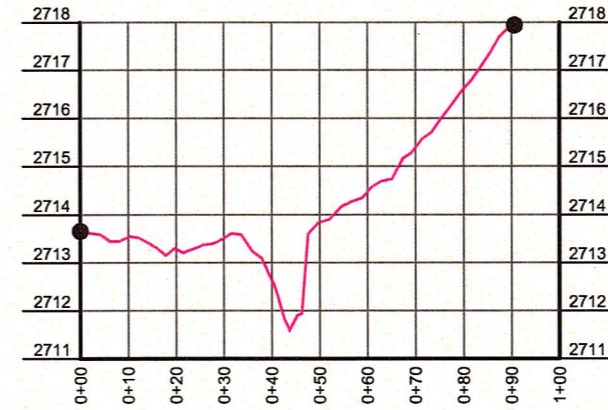
CROSS-SECTION #8-UT1 (REACH 1)

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



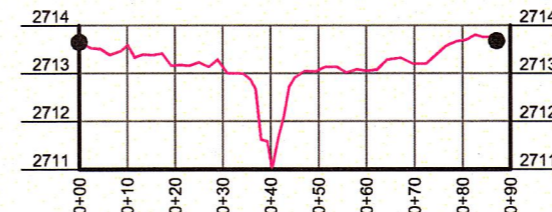
CROSS-SECTION #9-UT1 (REACH 1)

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



CROSS-SECTION #10-UT1 (REACH 2)

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

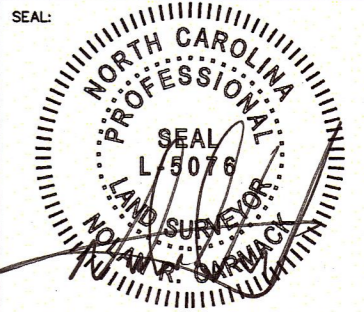


CROSS-SECTION #11-UT1 (REACH 2)

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

LEGEND

● CROSS-SECTION REBAR



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
**VILE CREEK
MITIGATION SITE**

SHEET TITLE:
**STREAM DATA:
CROSS-SECTIONS
7, 8, 9, 10 & 11**

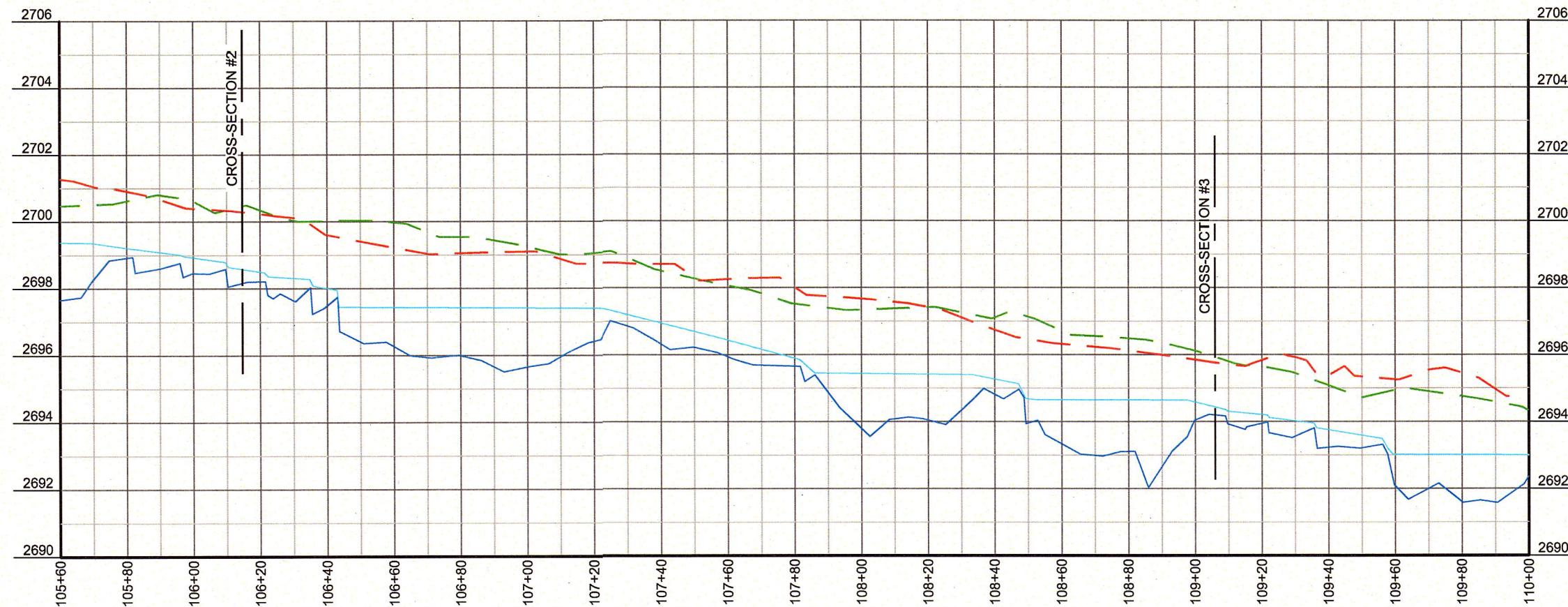
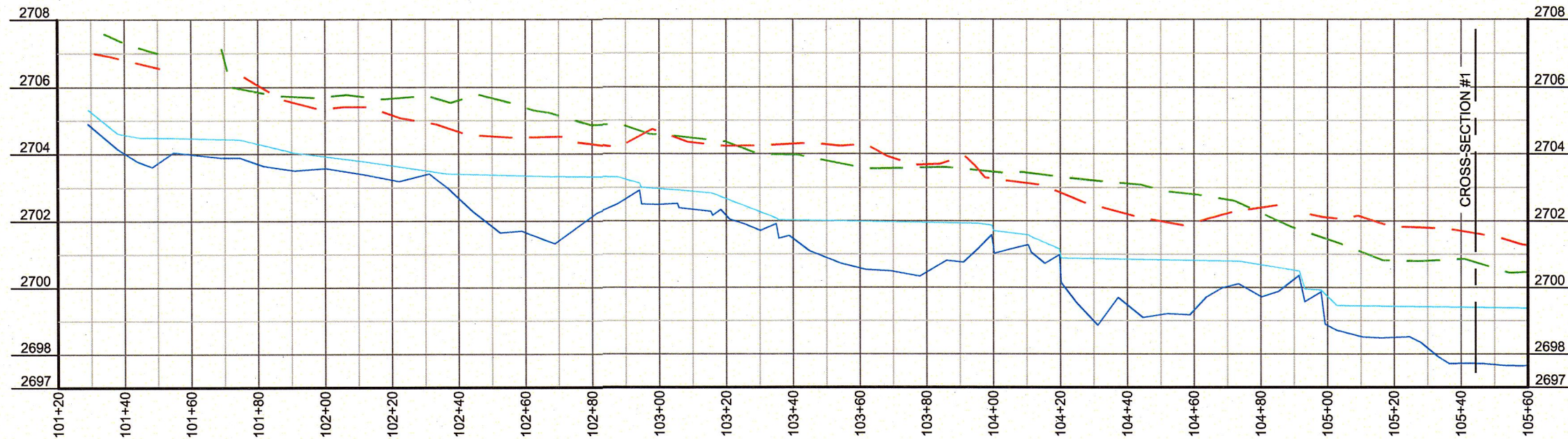
TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
JOB: #1612214-AB	SHEET SIZE: 11" X 17"	

#	DATE	REVISIONS

SHEET:
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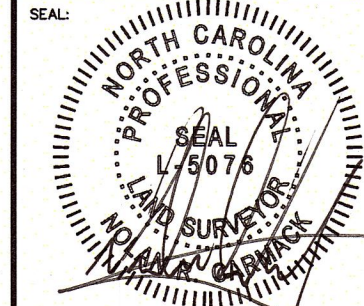


LONGITUDINAL PROFILE- VILE CREEK

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

LEGEND

- THALWEG
- WATER SURFACE
- - - RIGHT TOP OF BANK
- - - LEFT TOP OF BANK



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
**VILE CREEK
 MITIGATION SITE**

SHEET TITLE:
**STREAM DATA:
 LONGITUDINAL
 PROFILE-
 VILE CREEK**

TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH

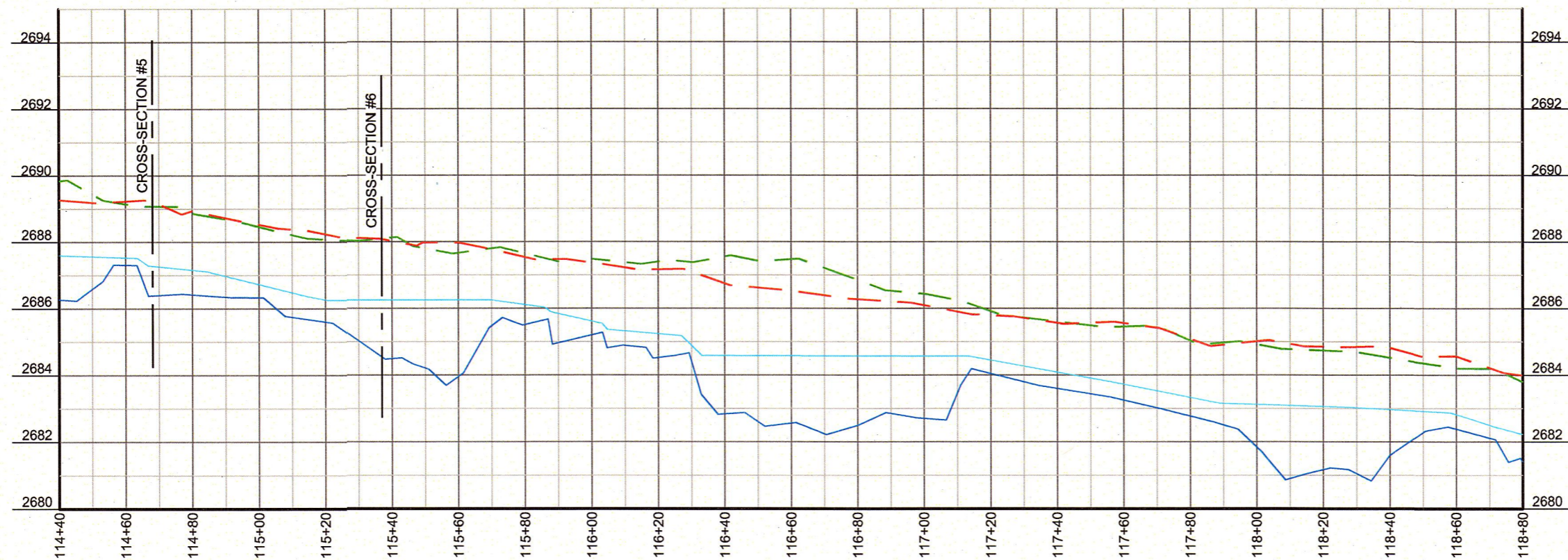
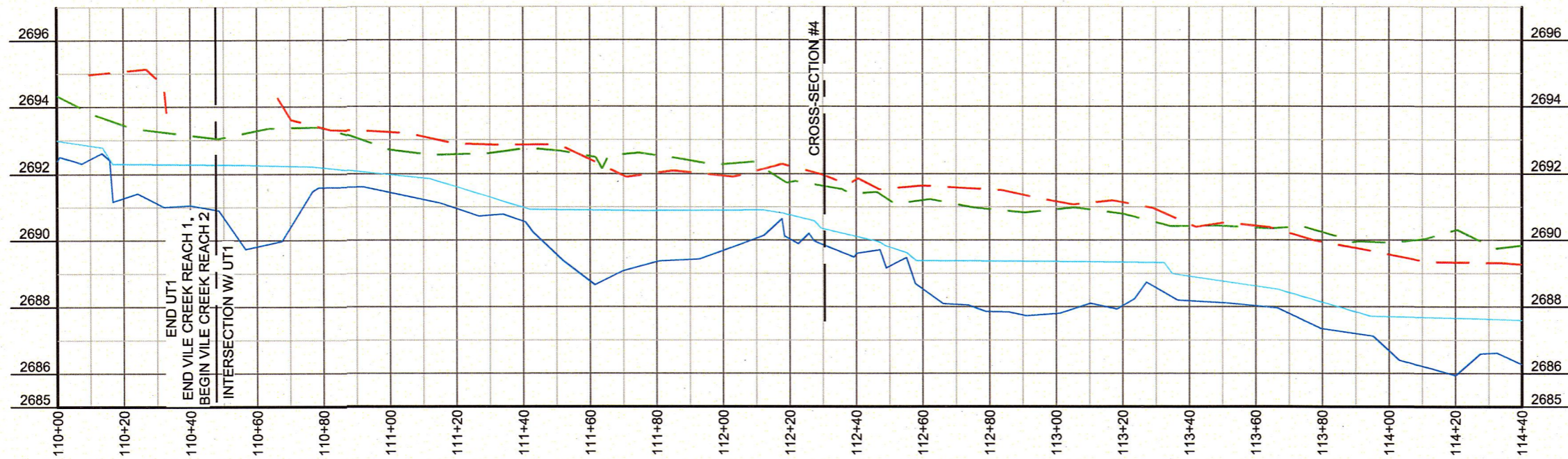
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17
JOB: #1612214-AB	SHEET SIZE: 11" X 17"

#	DATE	REVISIONS

SHEET:
16 OF 21



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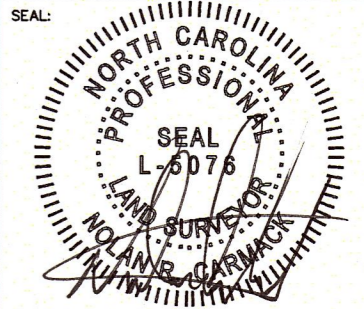


LONGITUDINAL PROFILE- VILE CREEK

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

LEGEND

- THALWEG
- WATER SURFACE
- - - RIGHT TOP OF BANK
- - - LEFT TOP OF BANK



PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
 CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
 NC DEQ-DIVISION OF
 MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
 DMS PROJECT#: 96582

PROJECT:
 VILE CREEK
 MITIGATION SITE

SHEET TITLE:
 STREAM DATA:
 LONGITUDINAL
 PROFILE-VILE CREEK

TOWNSHIP: LITTLE RIVER	COUNTY: ALLEGHANY	STATE: NORTH CAROLINA
DRAWN BY: NH	CHECKED BY: NC	SURVEY BY: NC, KP, LDP, NH

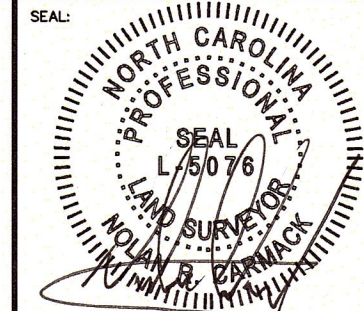
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17
JOB: #1612214-AB	SHEET SIZE: 11" X 17"

#	DATE	REVISIONS

SHEET:
 17 OF 21



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 (828) 575-9021
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PLEASE REFER TO THE COVERSHEET FOR THE STATEMENT OF CERTIFICATION

NOTE: SEE SHEET #1 FOR SURVEYOR'S NOTES

ELEVATION DATUM: NAVD 88
CONTOUR INTERVAL: 1 FOOT

AN AS-BUILT SURVEY FOR:
NC DEQ-DIVISION OF
MITIGATION SERVICES

SPO FILE #: 03-FO, 03-FP, 03-FQ
DMS PROJECT#: 96582

PROJECT:
VILE CREEK
MITIGATION SITE

SHEET TITLE:
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LONGITUDINAL
PROFILE-
VILE CREEK

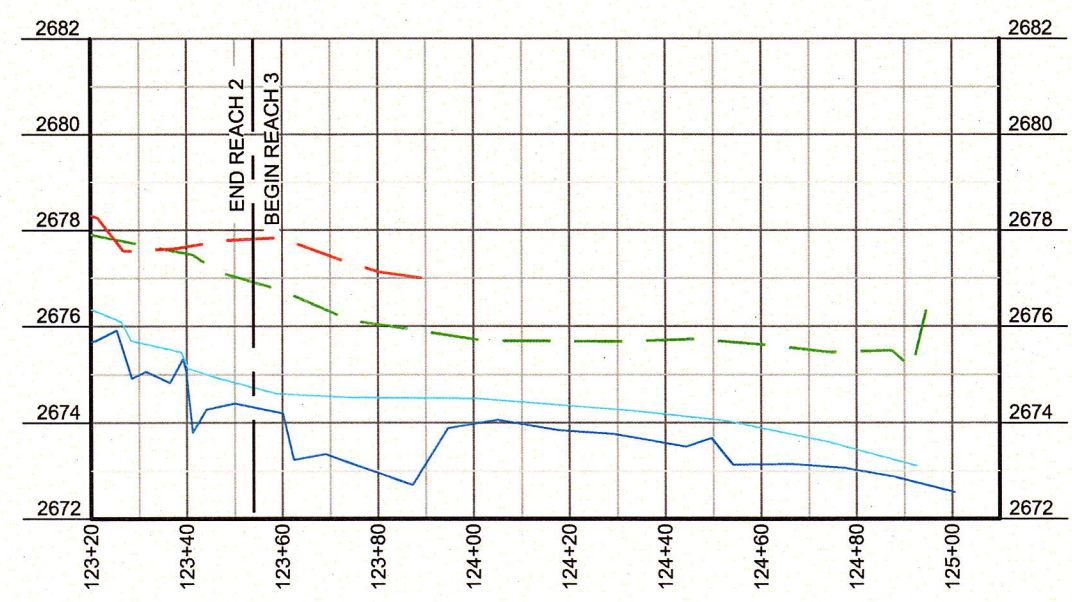
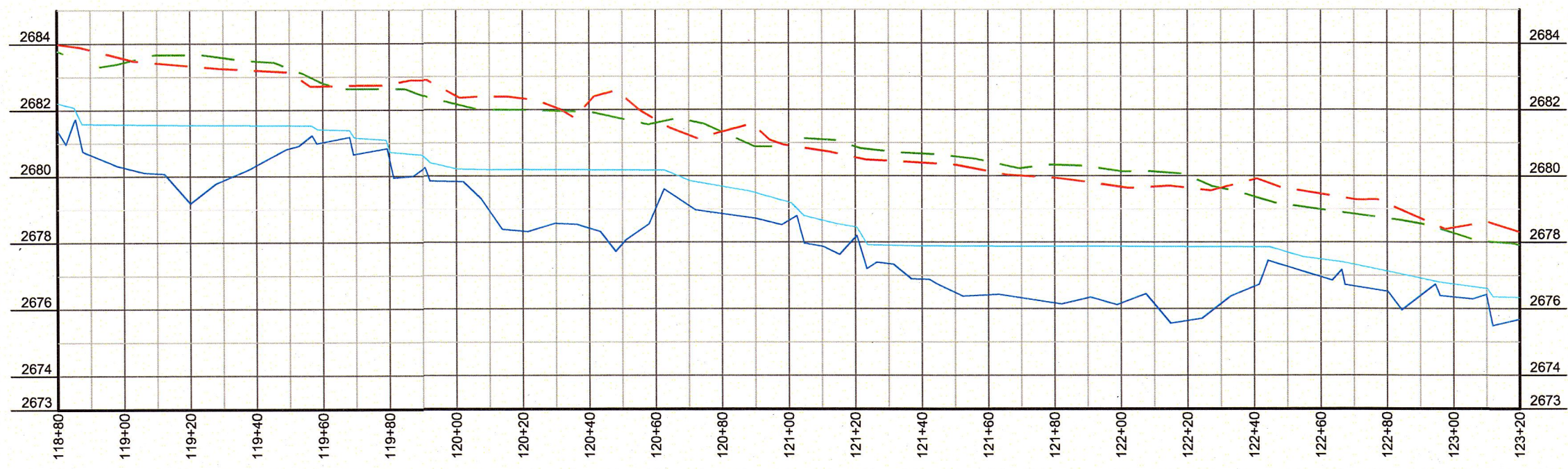
TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
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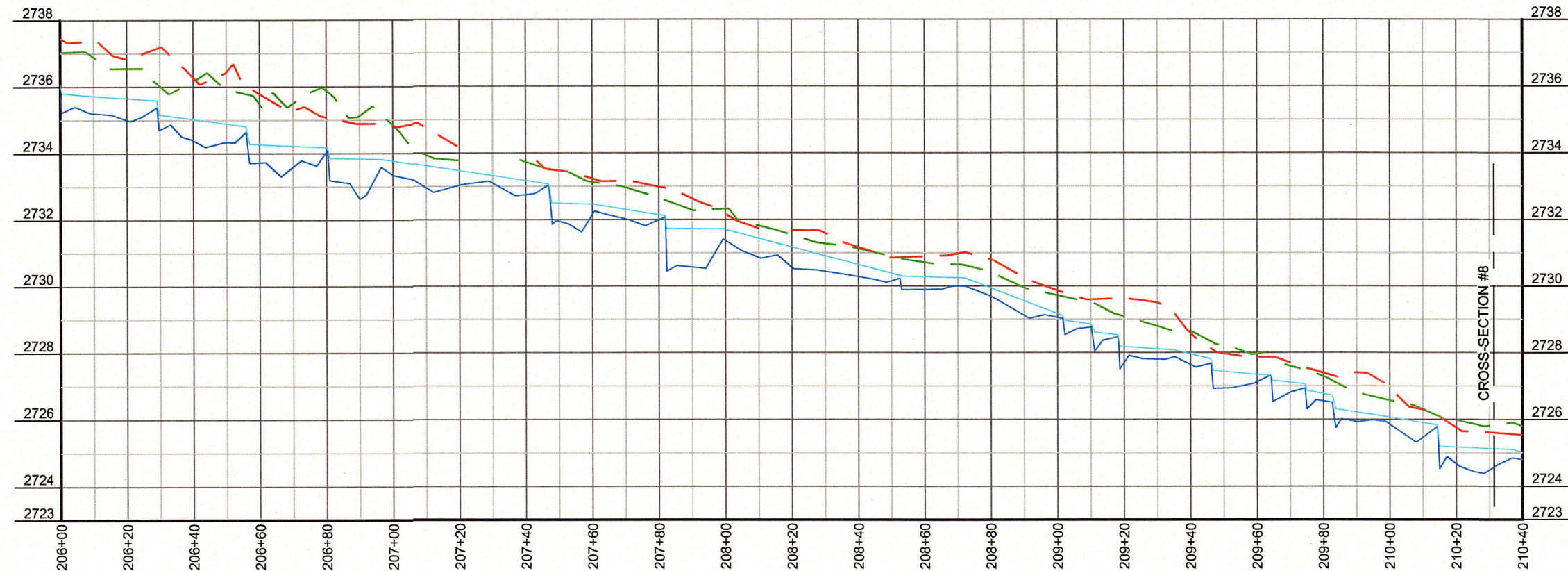
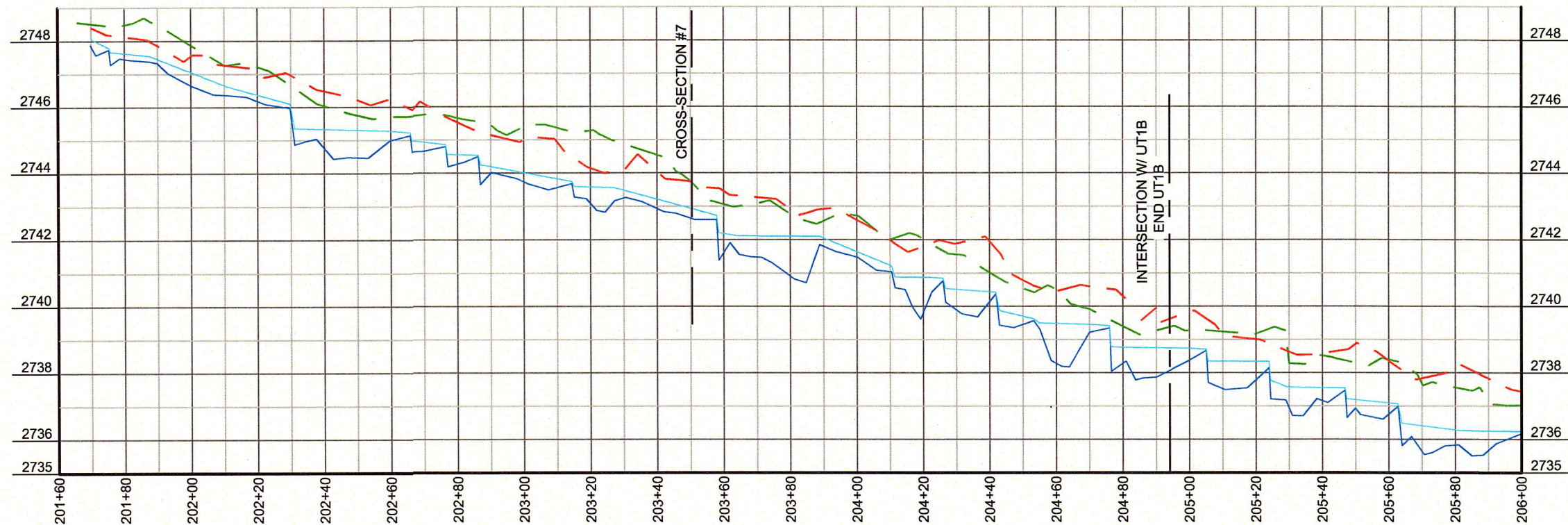


LONGITUDINAL PROFILE- VILE CREEK

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

LEGEND

- THALWEG
- WATER SURFACE
- - - RIGHT TOP OF BANK
- - - LEFT TOP OF BANK



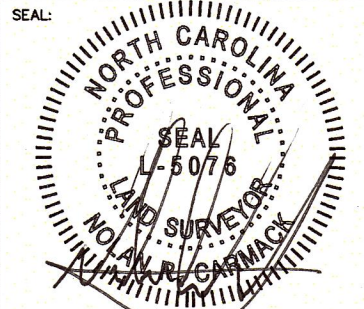
LONGITUDINAL PROFILE- UT1

HORIZONTAL: 1" = 40'

VERTICAL: 1" = 4'

LEGEND

- THALWEG
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DMS PROJECT#: 96582

PROJECT:
**VILE CREEK
MITIGATION SITE**

SHEET TITLE:
**STREAM DATA:
LONGITUDINAL
PROFILE-UT1**

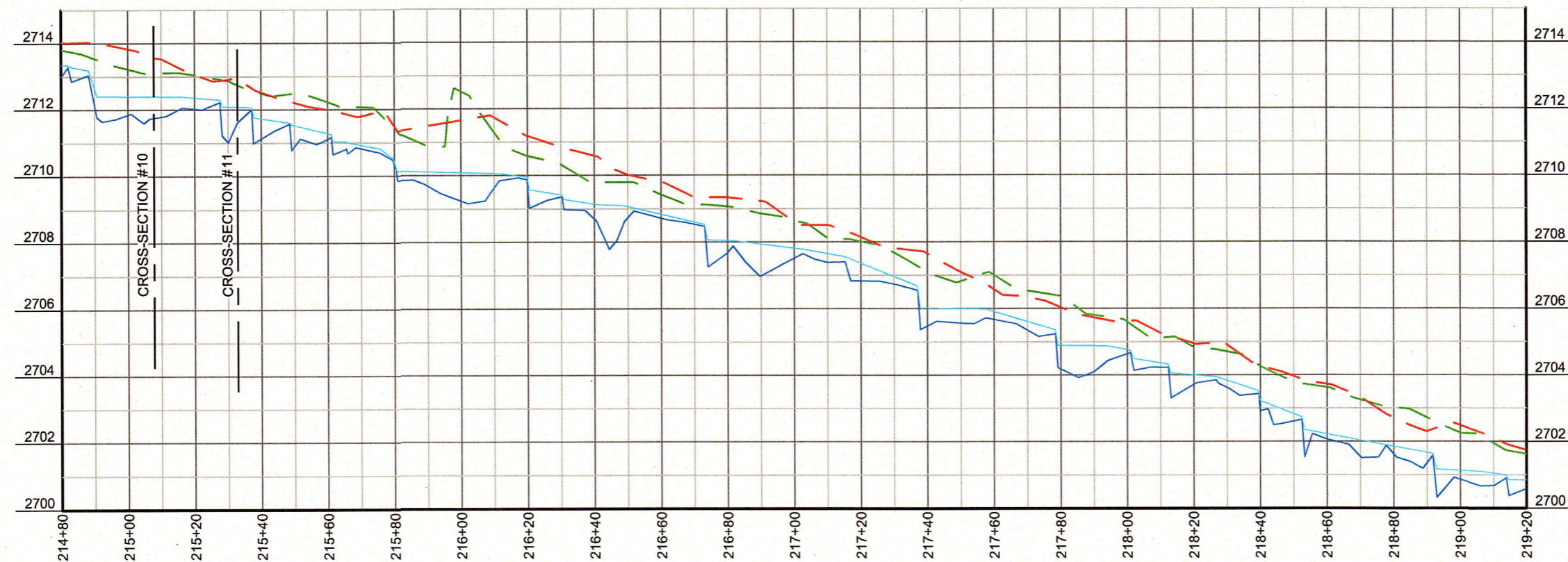
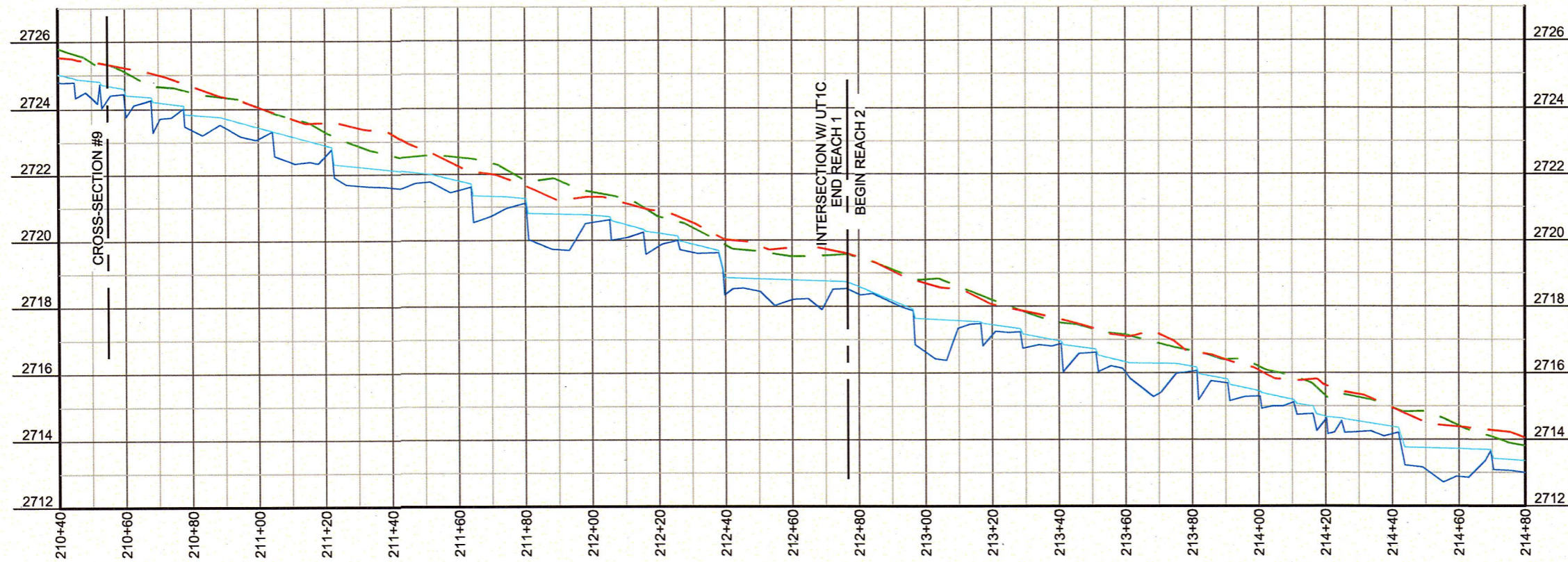
TOWNSHIP: LITTLE RIVER NH	COUNTY: ALLEGHANY NC	STATE: NORTH CAROLINA SURVEY BY: NC, KP, LDP, NH
SCALE: AS SHOWN	SURVEY DATES: 02/15/17 - 02/28/17	
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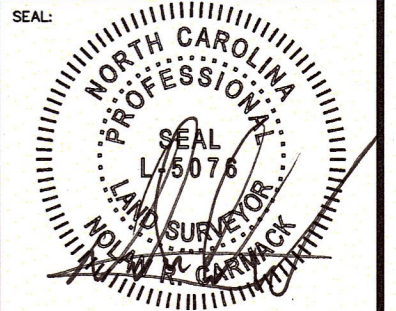
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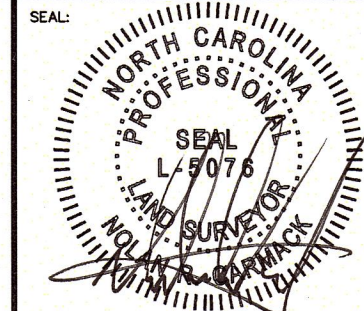
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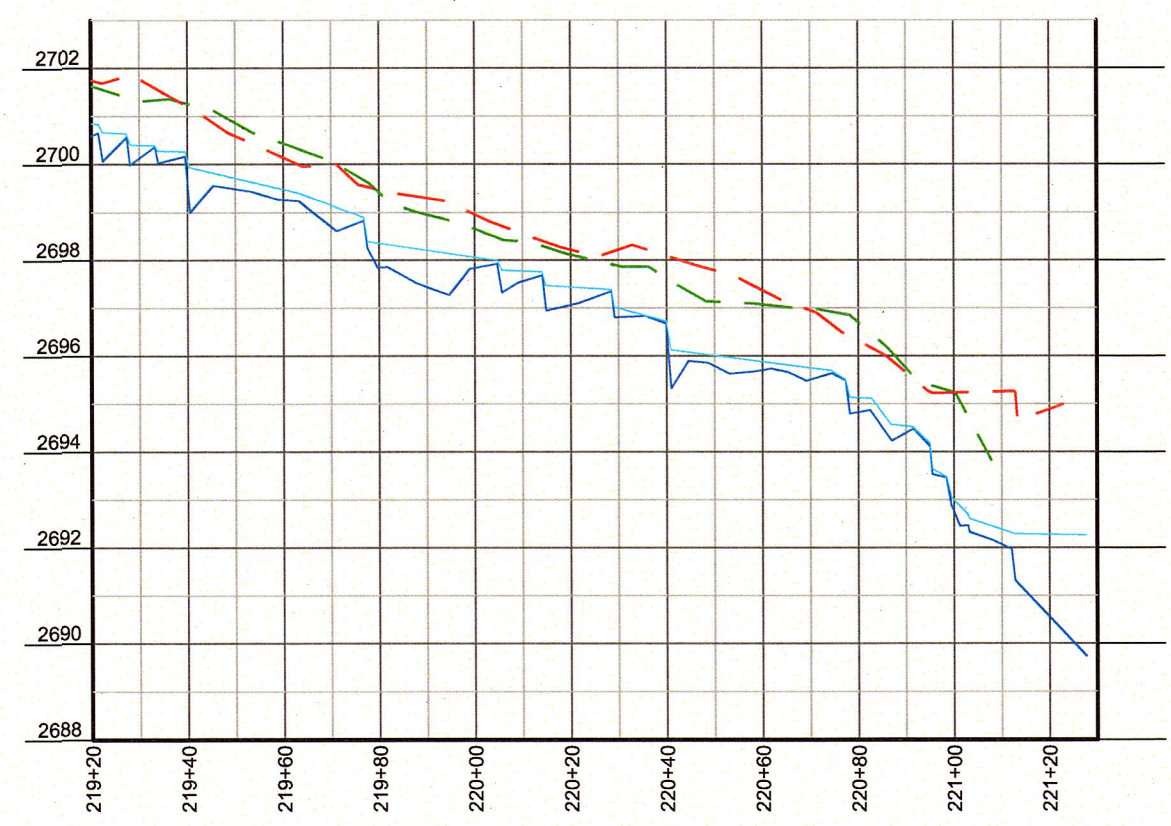
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