

# East Buffalo Creek Mitigation Plan

## Preservation, Enhancement, & Restoration

Graham County, North Carolina

EEP Project Number 000615



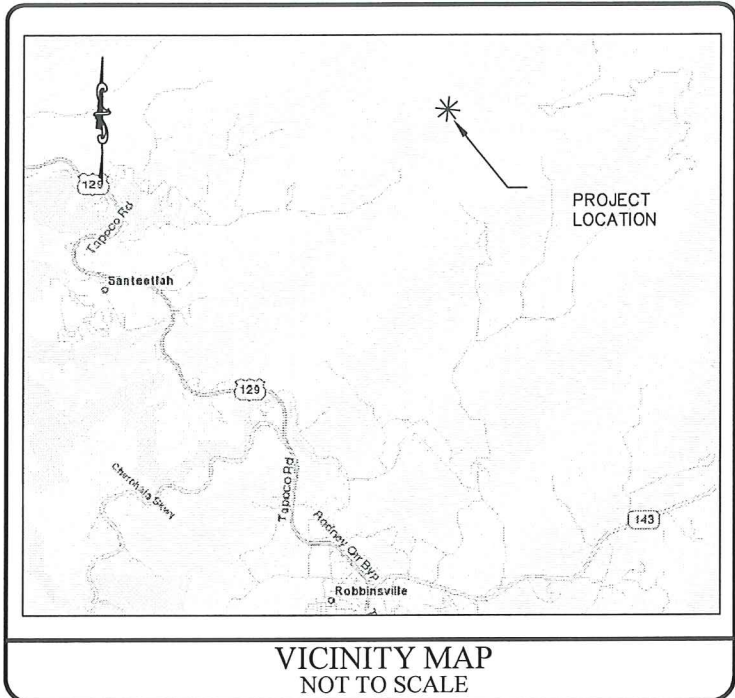
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**ASBUILT SURVEY**

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd, Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No. 113102  
 Date: 11/22/11  
 File Name: AsbuiltTitle.dwg  
 DESIGNED: SG,DH  
 DRAWN: MR  
 APPROVED: MCGJM  
 Drawing No. 1 of 12



**INDEX OF SHEETS**

- 1 ..... Title
- 2 ..... Legend
- 3-5 ..... Plan
- 6-8 ..... Profiles
- 9-10 ..... Cross-Sections
- 11 ..... Road Plan
- 12 ..... Preservation Photo Points

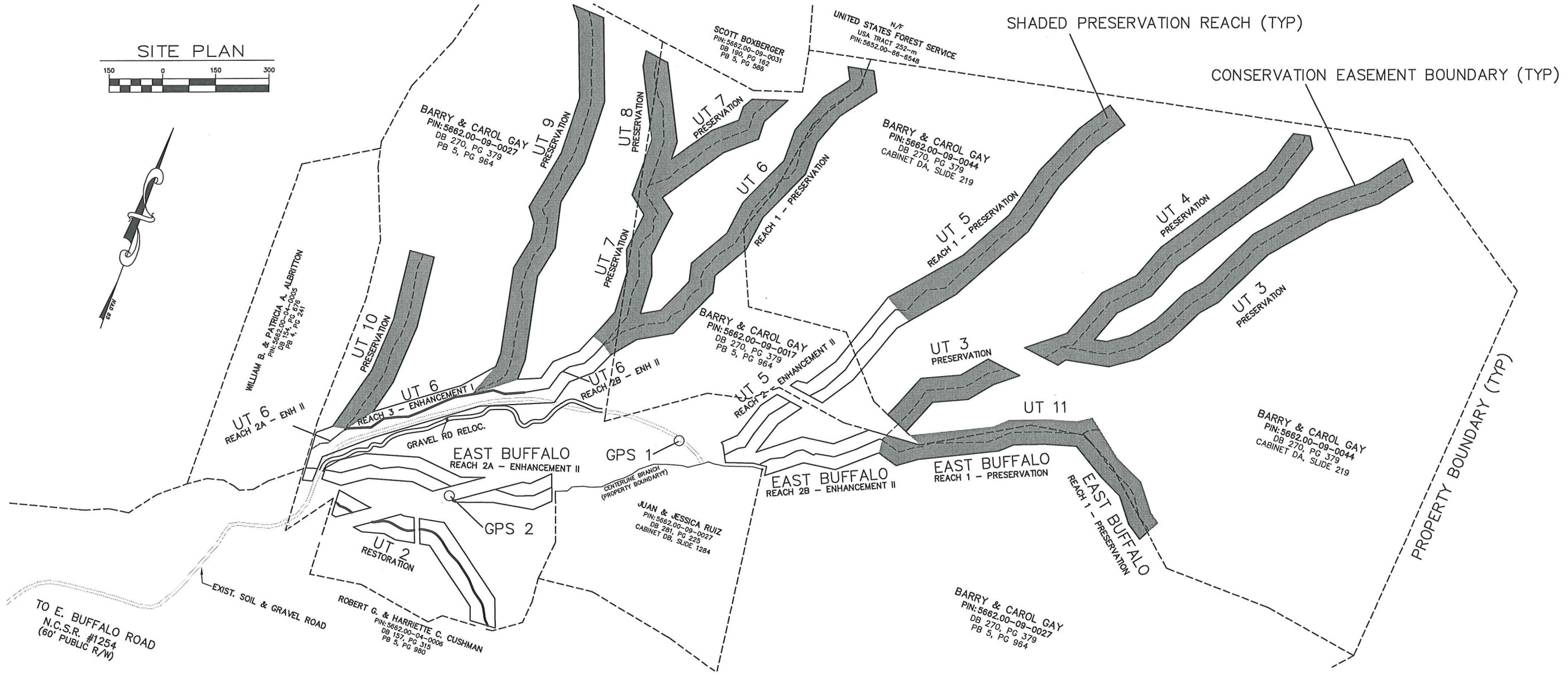
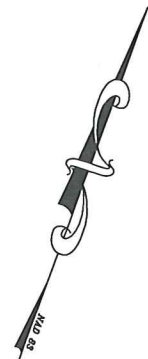
**CONTROL POINTS**

POINT	NORTHING	EASTING	ELEVATION
GPS1	624189.52	571218.96	2440.85
GPS2	623826.66	570666.51	2323.62
BCP4	624042.17	570549.56	2329.05
BCP5	624176.13	570796.19	2375.10
TBM1	623585.81	570822.36	2359.87
TBM2	623655.52	570707.52	2330.74
TBM3	623567.24	570887.86	2374.21
TBM4	623730.11	570522.40	2394.33
TBM5	623871.17	570380.05	2288.62

**Datum Description:**

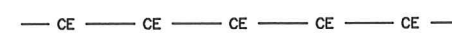



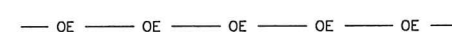





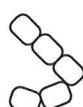







North Carolina grid coordinates (NAD 83) for primary GPS derived control points were established by Vaughn & Melton Consulting Engineers, Inc., Asheville, NC.

Supplemental control points (NAD83) utilized for this survey were established by Michael Baker Engineering using conventional methods.



TO E. BUFFALO ROAD  
 N.C.S.R. #1254  
 (60' PUBLIC R/W)

## LEGEND OF SYMBOLS

	CONSERVATION EASEMENT
	THALWEG
	TOP OF BANK
	CHANNEL
	OVERHEAD ELECTRIC
	EXISTING FENCE
	CONTOUR – INDEX (5')
	CONTOUR – INTERMEDIATE (1')
	PHOTO POINT
	BOULDER STEP
	ROCK DROP
	UNDISTURBED LARGE TREE
	UTILITY POLE
	CONSTRUCTED STREAM CROSSING
	HDPE W/ OUTLET PROTECTION
	VEGETATION PLOT
	CREST GAGE
	CONTROL POINT



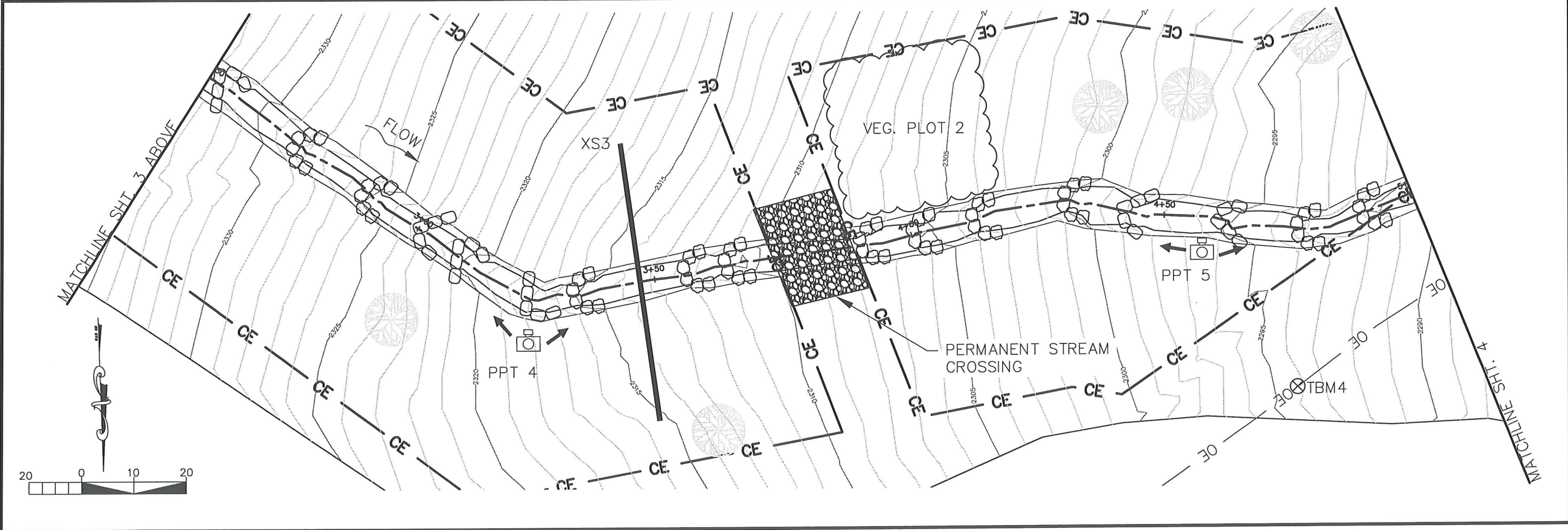
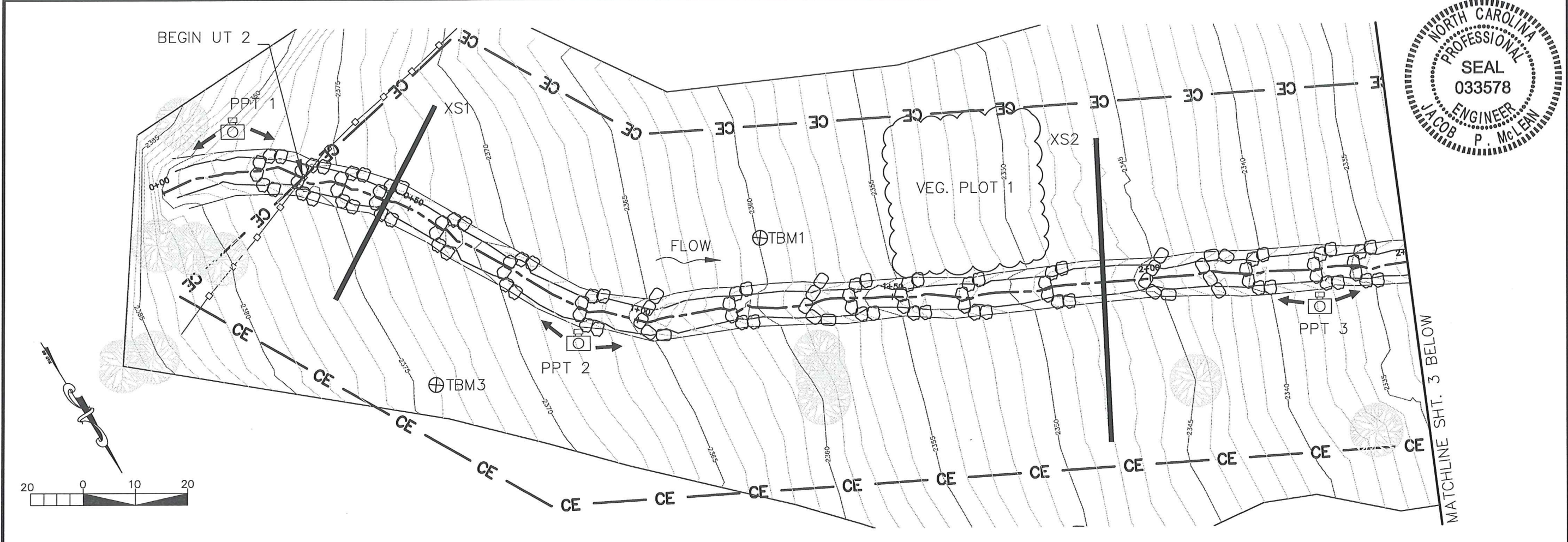
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

# Baker

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**LEGEND**

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No.	113102
Date:	11/22/11
File Name	AsbuiltTitle.dwg
DESIGNED:	SG,DH
DRAWN:	MR
APPROVED:	MC,JM
Drawing No.	2 of 12



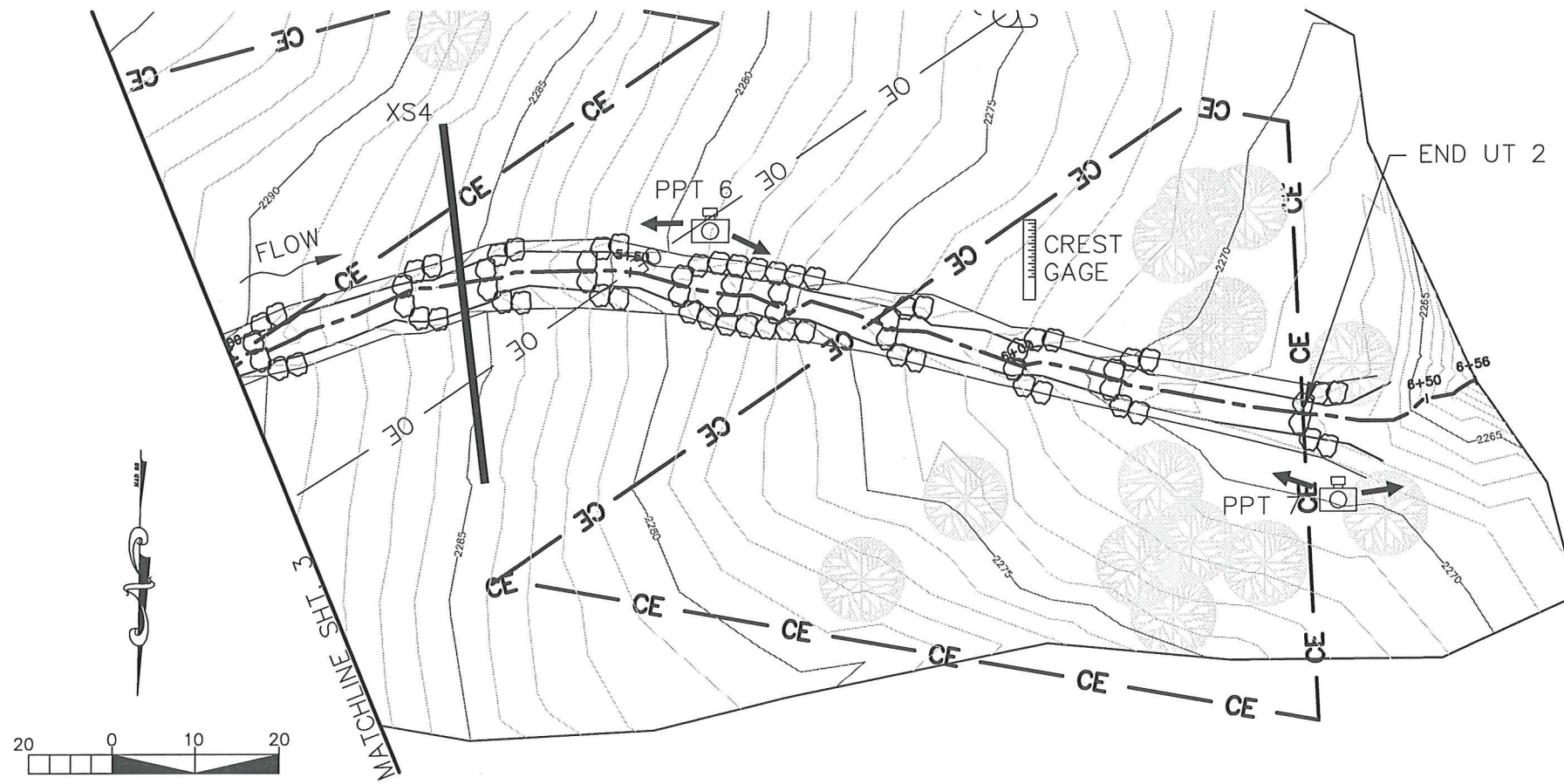
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

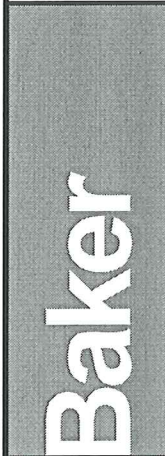
EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
 UT 2 PLAN

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capital Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG.DH
DRAWN:	MR
APPROVED:	MCJ.M
Drawing No.	3 of 12



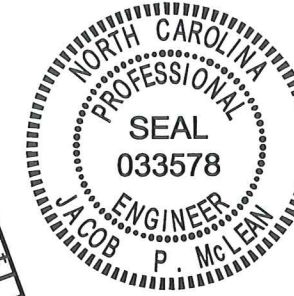
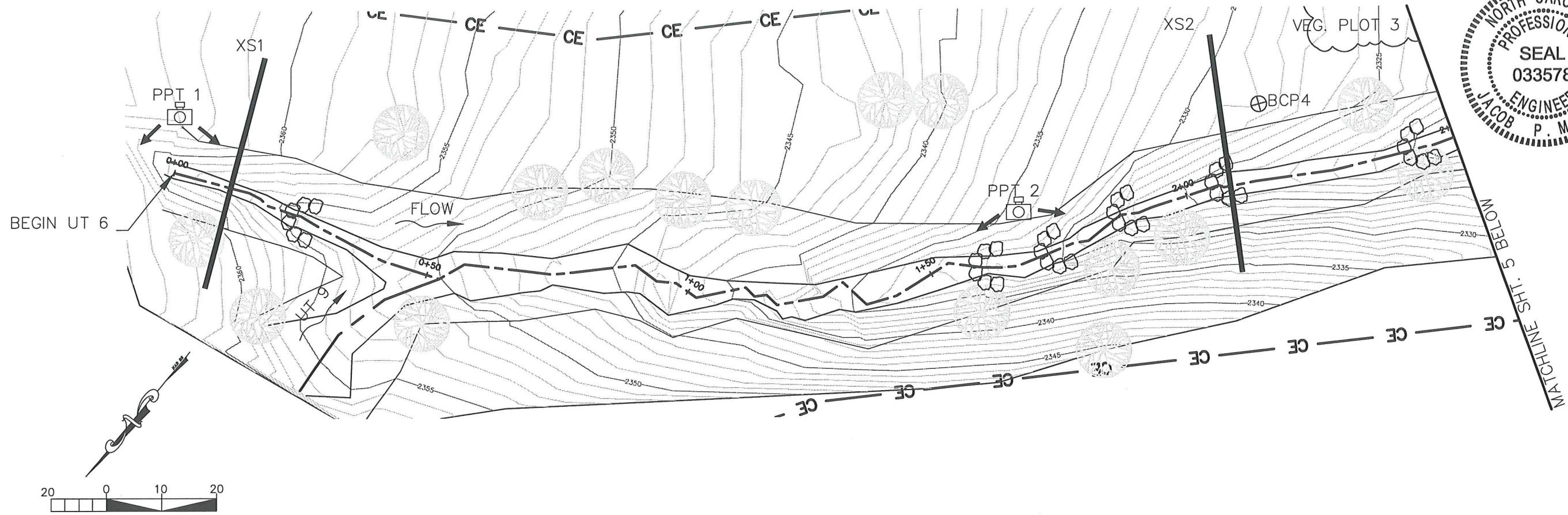
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409



EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
 UT 2 PLAN

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd, Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

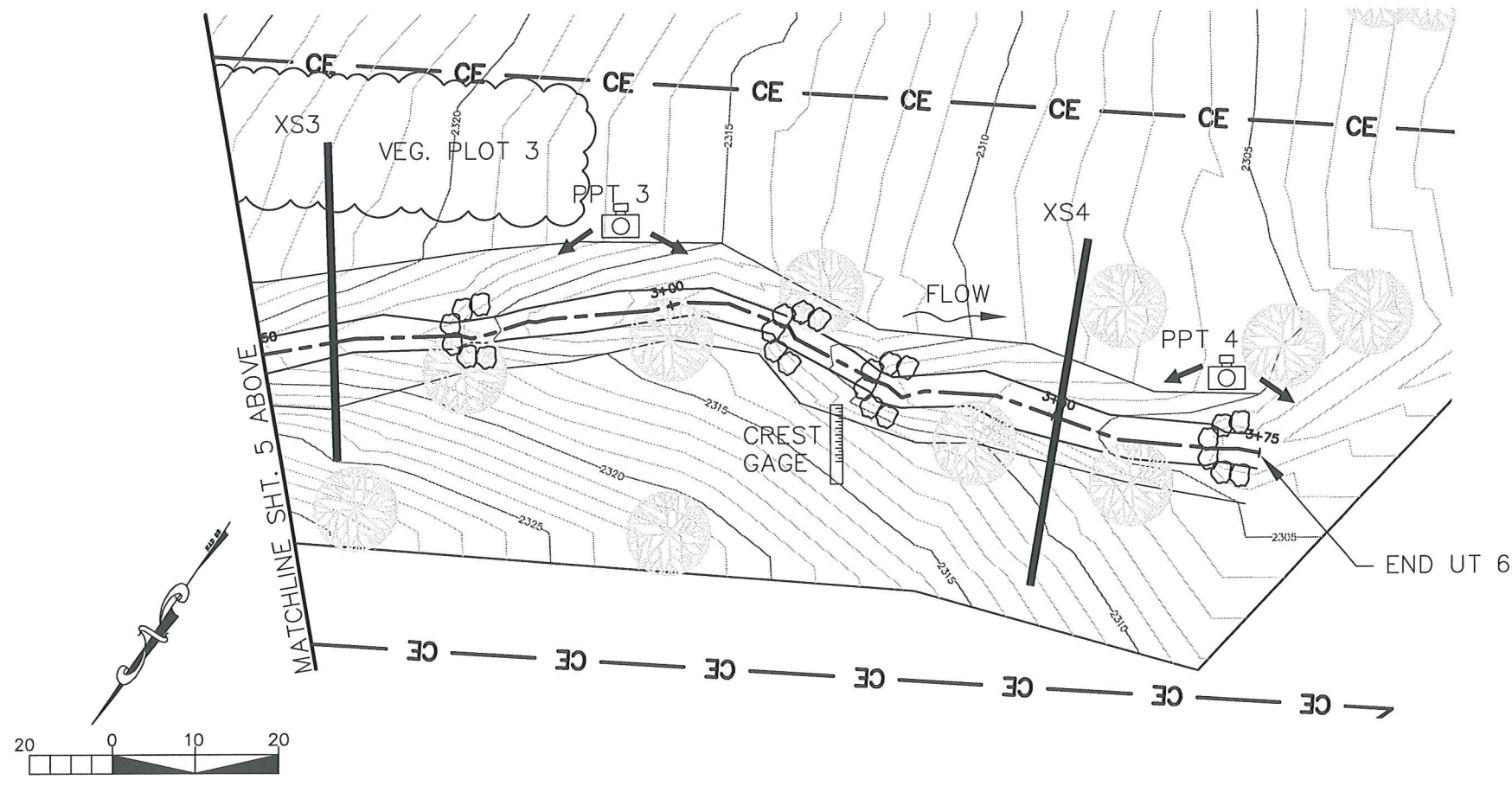
Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG,DH
DRAWN:	MR
APPROVED:	MC,JM
Drawing No.	4 of 12



Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

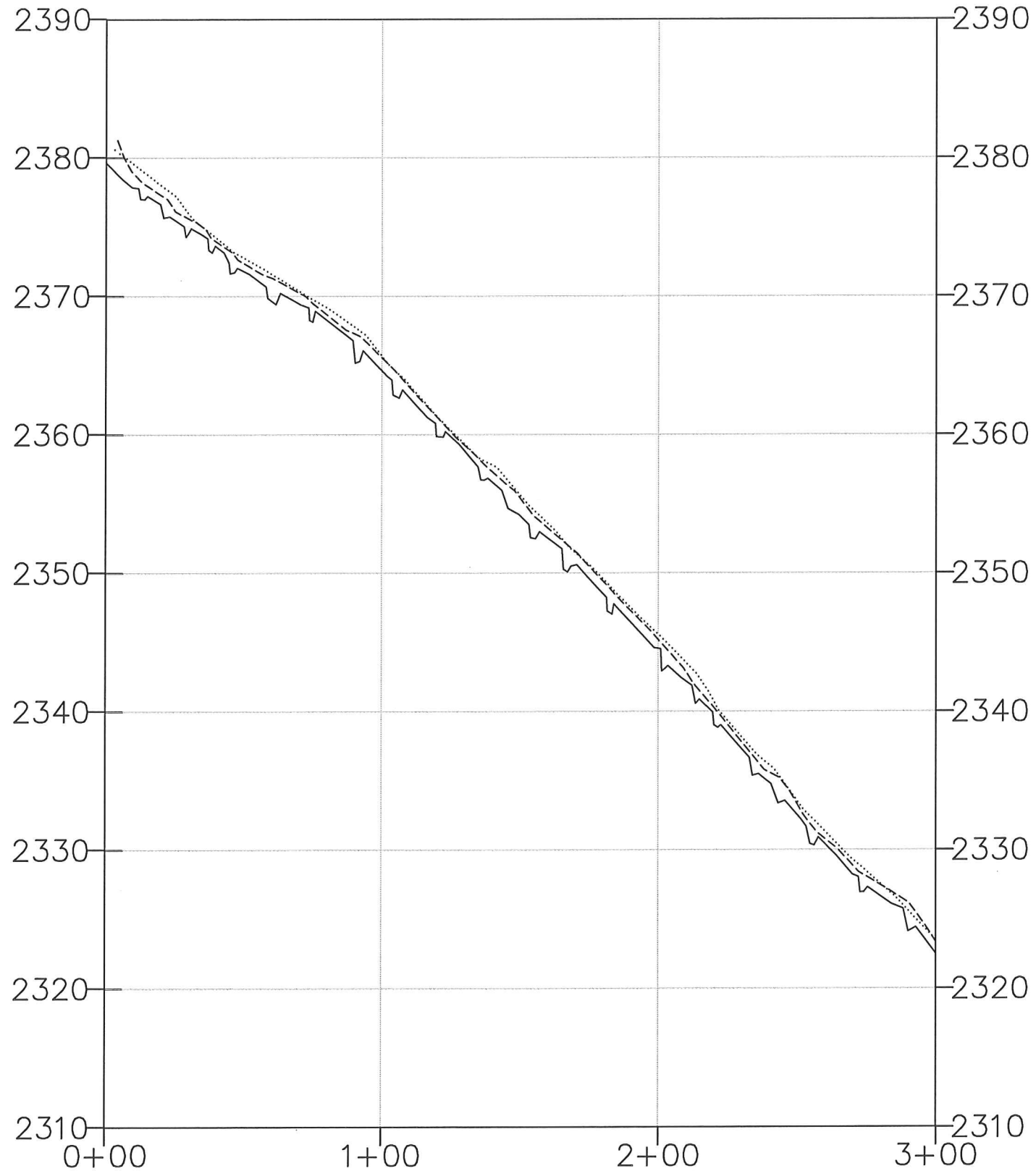
EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**UT 6 PLAN**



Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG,DH
DRAWN:	MR
APPROVED:	MC,JM
Drawing No.	5 of 12

# UT2 PROFILE STA. 0+00-3+00



PROFILE SCALE  
HORIZONTAL: 1"=50'  
VERTICAL: 1"=10'

\_\_\_\_\_ ASBUILT THALWEG  
 - - - - - ASBUILT LT  
 ..... ASBUILT RT



**Michael Baker Engineering Inc.**  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

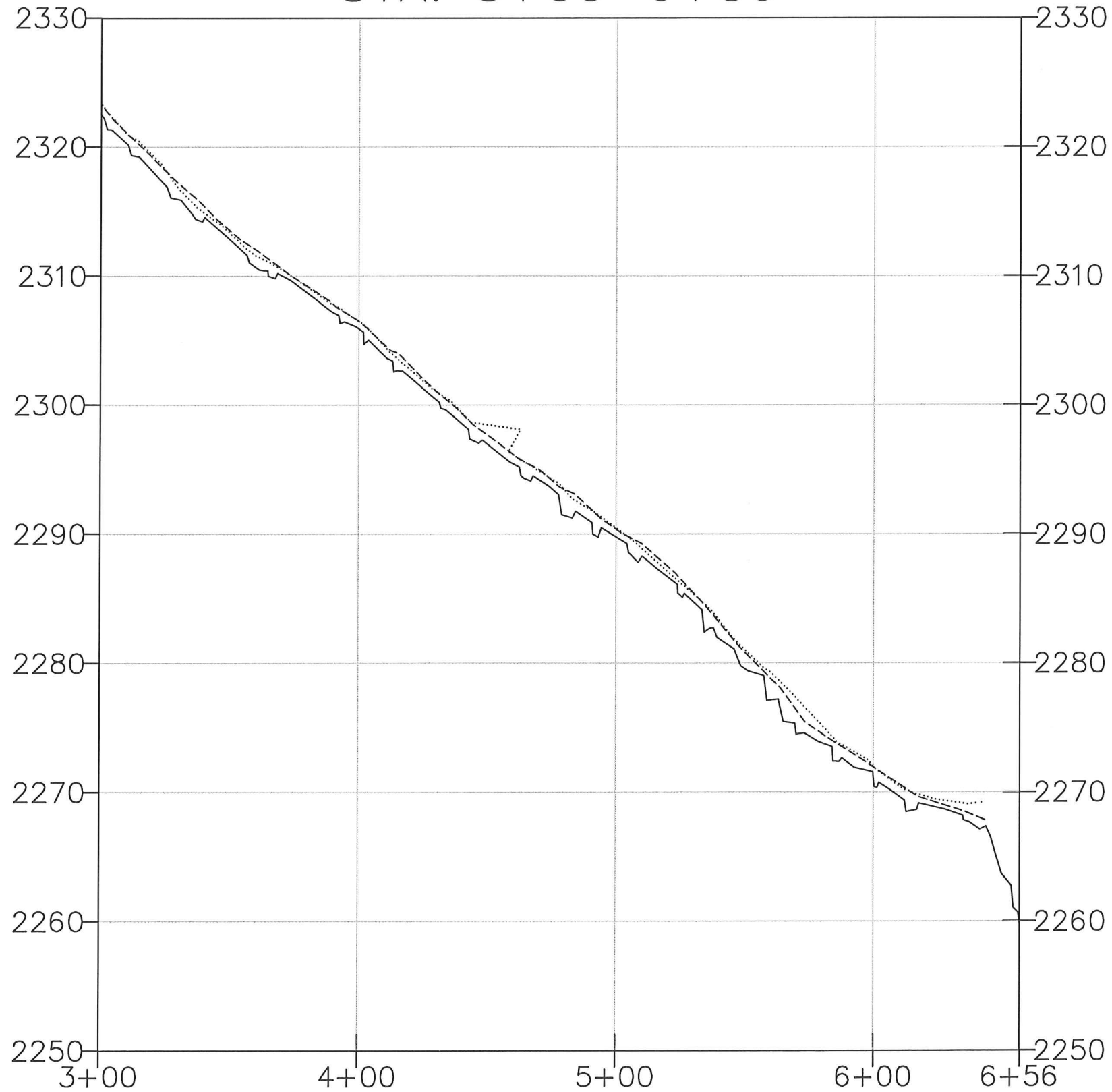
# Baker

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**UT 2 PROFILE**

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG.DH
DRAWN:	MR
APPROVED:	MCJM
Drawing No.	6 of 12

# UT2 PROFILE STA. 3+00-6+56



PROFILE SCALE  
HORIZONTAL: 1"=50'  
VERTICAL: 1"=10'

- ASBUILT THALWEG
- ASBUILT LTB
- ..... ASBUILT RTB



Michael Baker Engineering Inc.  
NC Engineering License F-1084  
797 Haywood Road, Suite 201  
Asheville, North Carolina 28806  
Phone: 828.350.1408  
Fax: 828.350.1409

## Baker

EAST BUFFALO CREEK MITIGATION PROJECT  
ROBBINSVILLE, NORTH CAROLINA

UT 2 PROFILE

Prepared for:  
Ecosystem Enhancement Program  
2728 Capitol Blvd., Suite 1H 103  
Raleigh, NC 27604  
Phone: 919-715-0476  
Fax: 919-715-2219

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG,DH
DRAWN:	MR
APPROVED:	MC,JM
Drawing No.	7 of 12



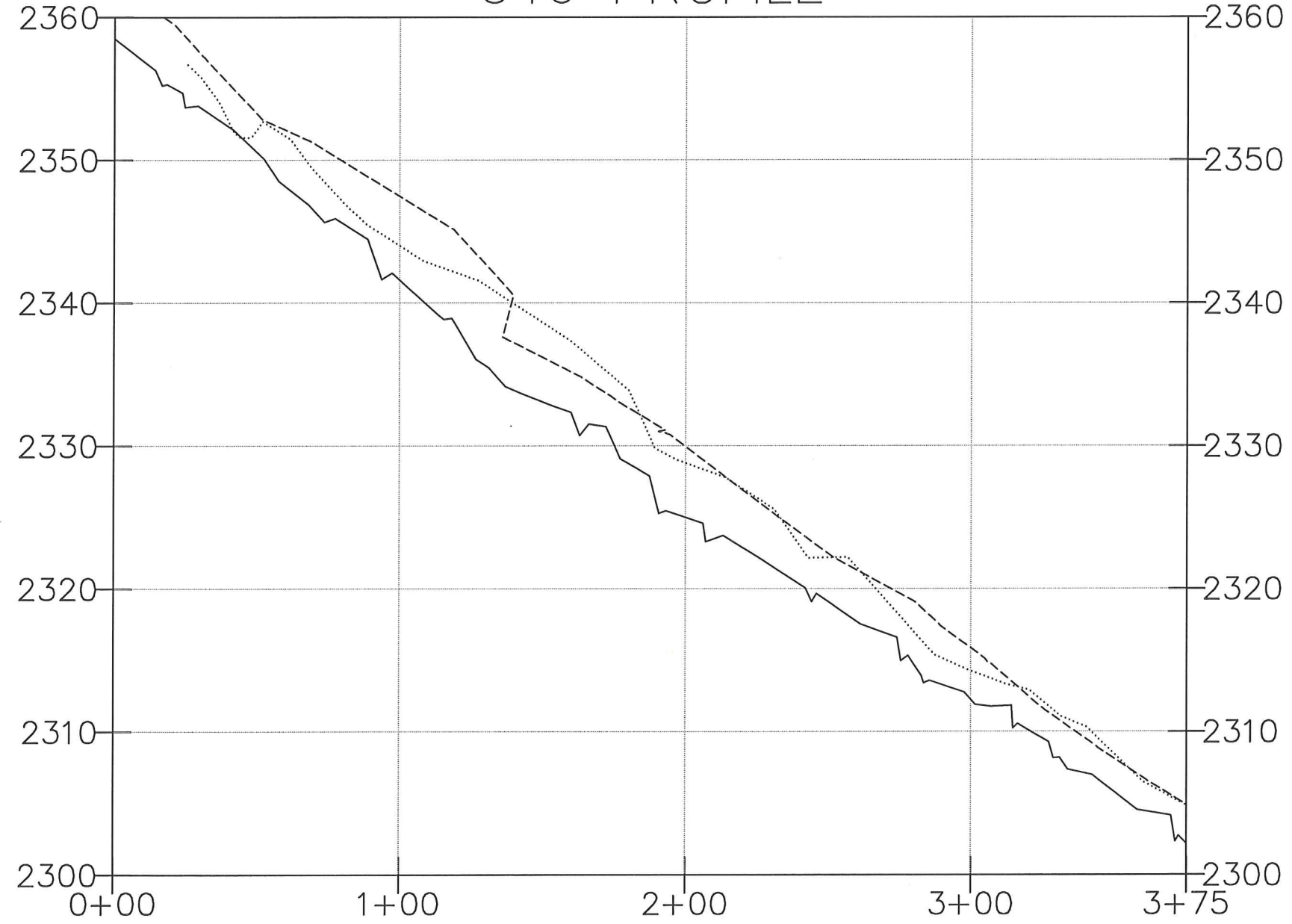
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**UT 6 PROFILE**

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

# UT6 PROFILE



PROFILE SCALE  
 HORIZONTAL: 1"=50'  
 VERTICAL: 1"=10'

———— ASBUILT THALWEG  
 - - - - - ASBUILT LTB  
 ..... ASBUILT RTB

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG,DH
DRAWN:	MR
APPROVED:	MC,JM
Drawing No.	8 of 12





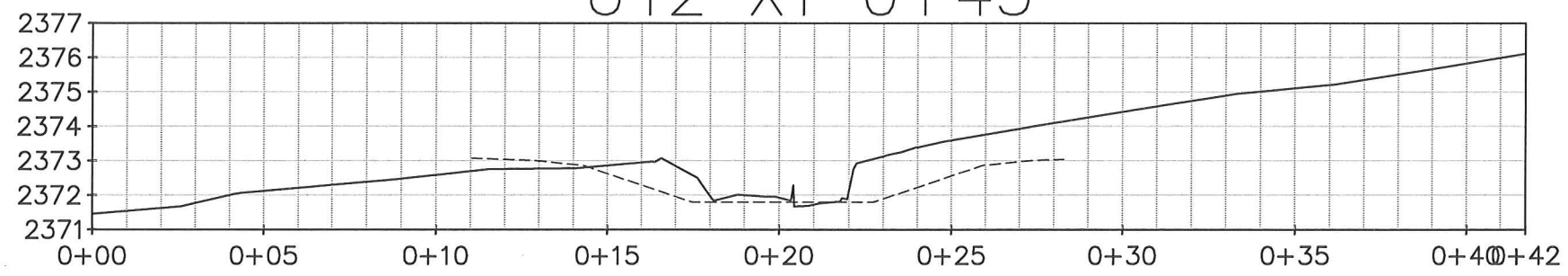
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

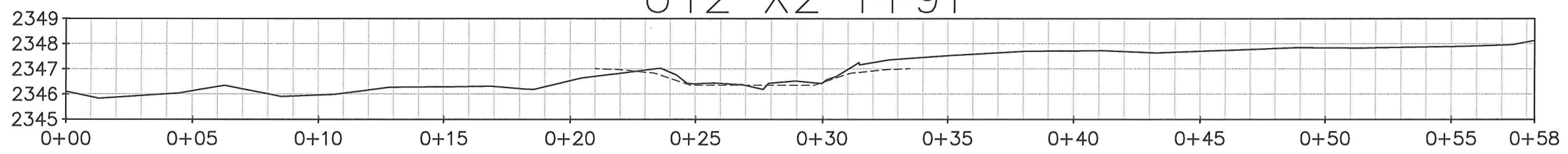
EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
 UT 2 CROSS-SECTIONS

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

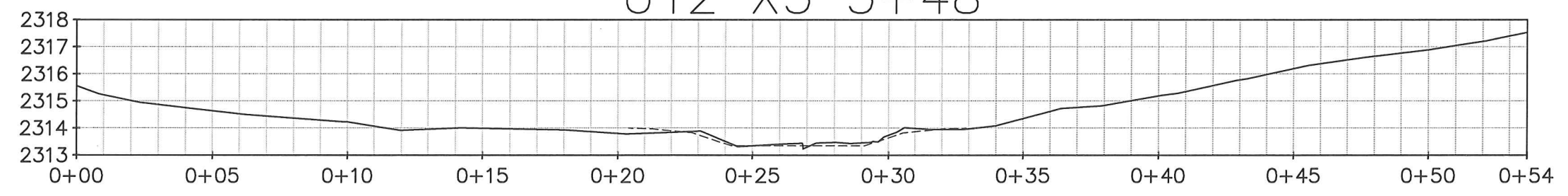
UT2 X1 0+45



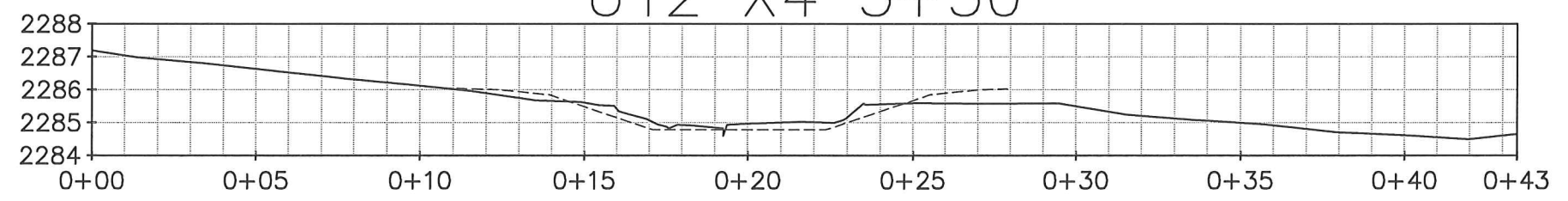
UT2 X2 1+91



UT2 X3 3+48



UT2 X4 5+30



CROSS-SECTION SCALE  
 HORIZONTAL: 1"=5'  
 VERTICAL: 1"=5'

———— ASBUILT CROSS-SECTION  
 - - - - - DESIGN CROSS-SECTION

Project No.	113102
Date:	11/22/11
File Name	asbuilt.dwg
DESIGNED:	SG,DH
DRAWN:	MB
APPROVED:	MC,JM
Drawing No.	9 of 12



Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
 UT6 CROSS-SECTIONS

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd., Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

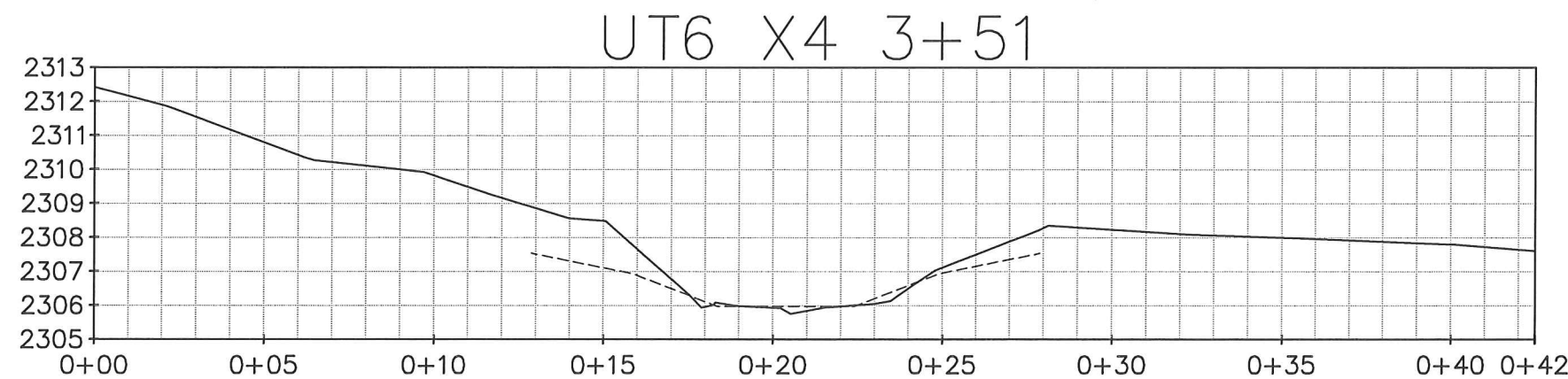
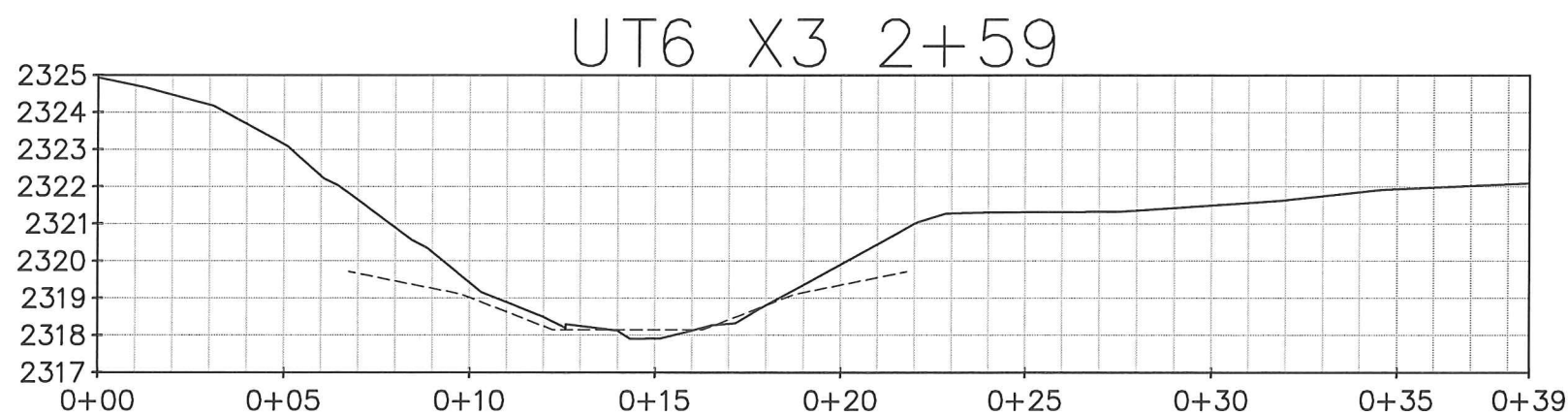
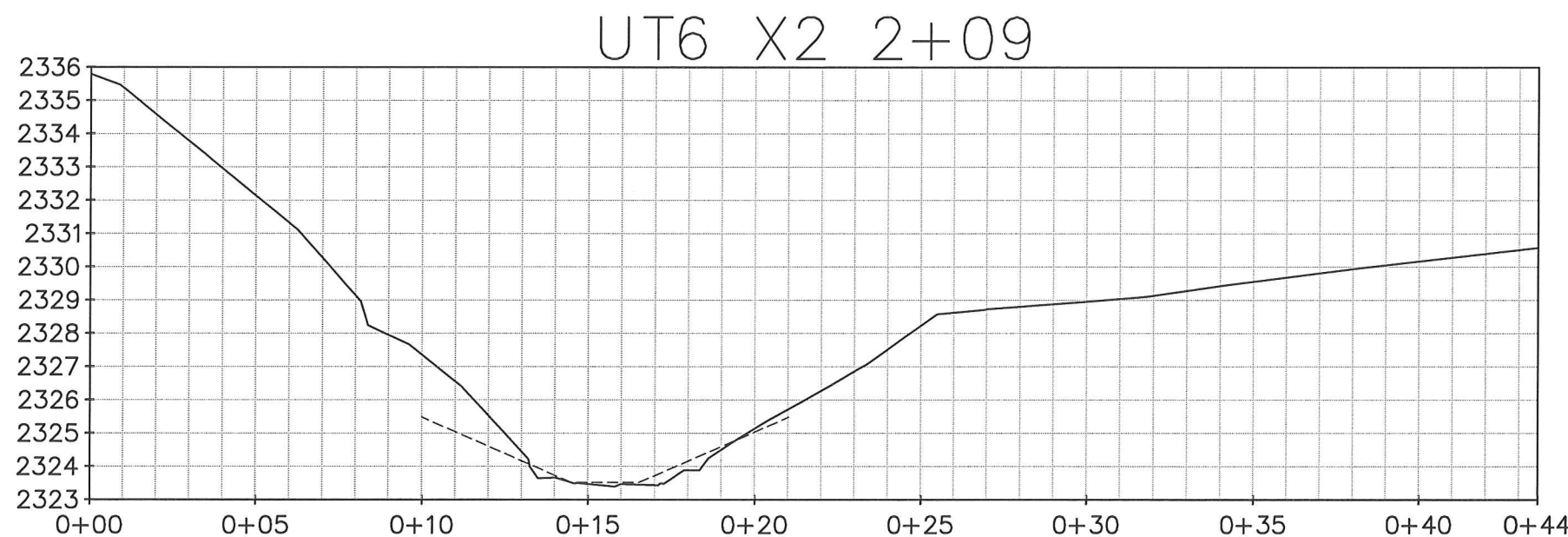
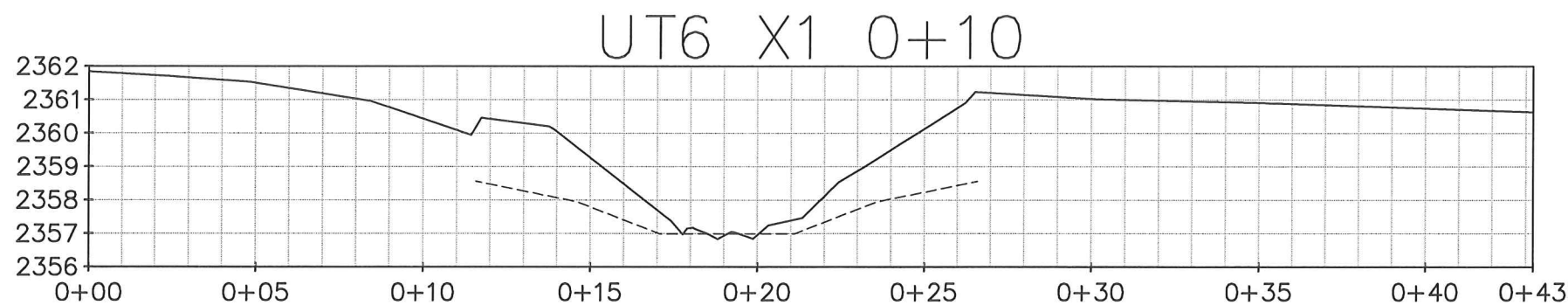
Project No. 113102

Date: 11/22/11

File Name  
 asbuilt.dwg

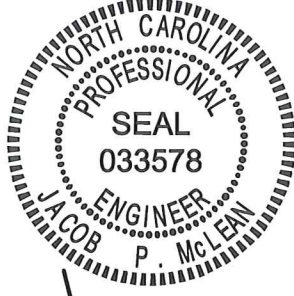
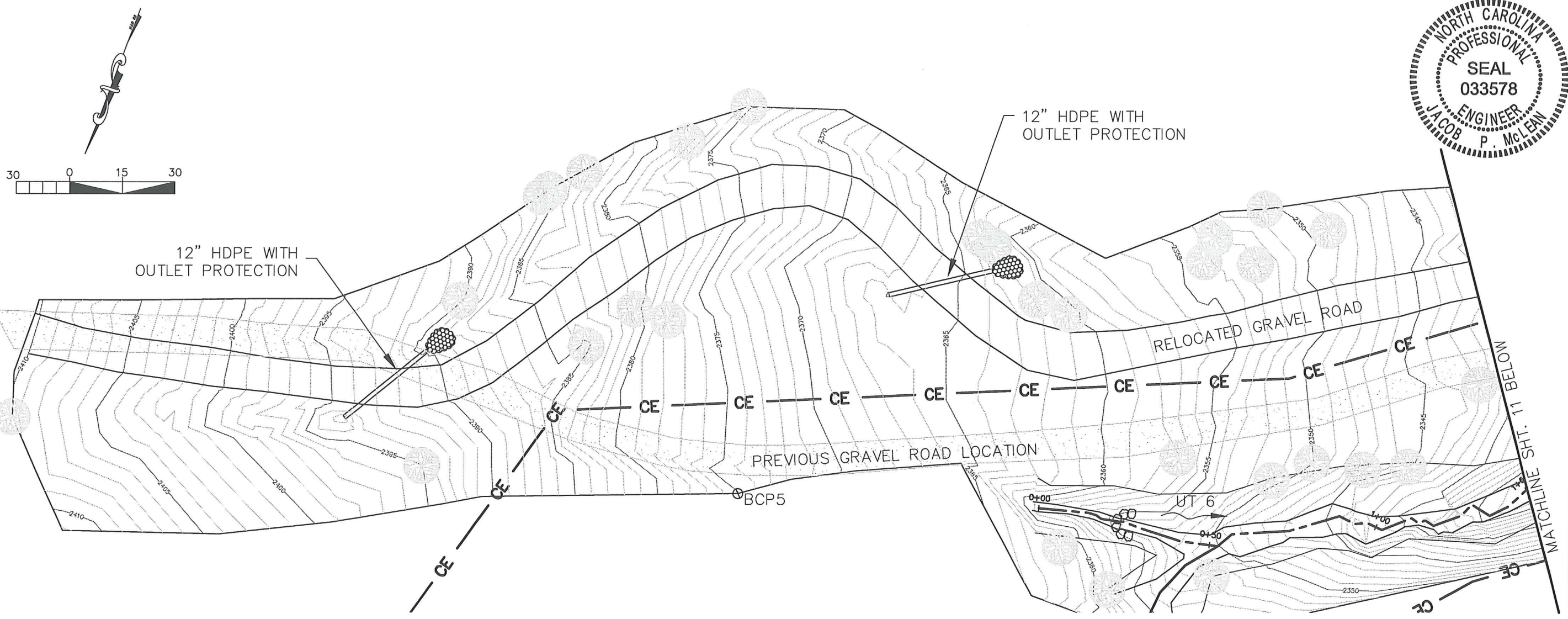
DESIGNED: SG,DH  
 DRAWN: MB  
 APPROVED: MC,JM

Drawing No.  
 10 of 12



CROSS-SECTION SCALE  
 HORIZONTAL: 1"=5'  
 VERTICAL: 1"=5'

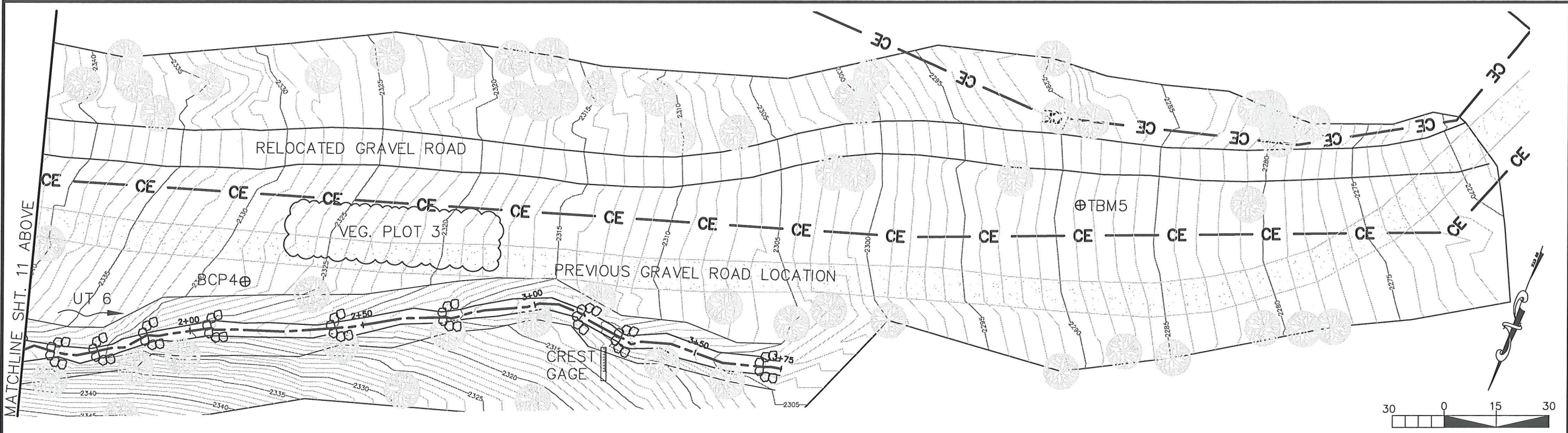
———— ASBUILT CROSS-SECTION  
 - - - - - DESIGN CROSS-SECTION



Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

**Baker**

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
**ROAD RELOCATION PLAN**



Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capital Blvd, Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No. 113102  
 Date: 11/22/11  
 File Name: asbuilt.dwg  
 DESIGNED: SG.DH  
 DRAWN: MR  
 APPROVED: MC.JM  
 Drawing No. 11 of 12



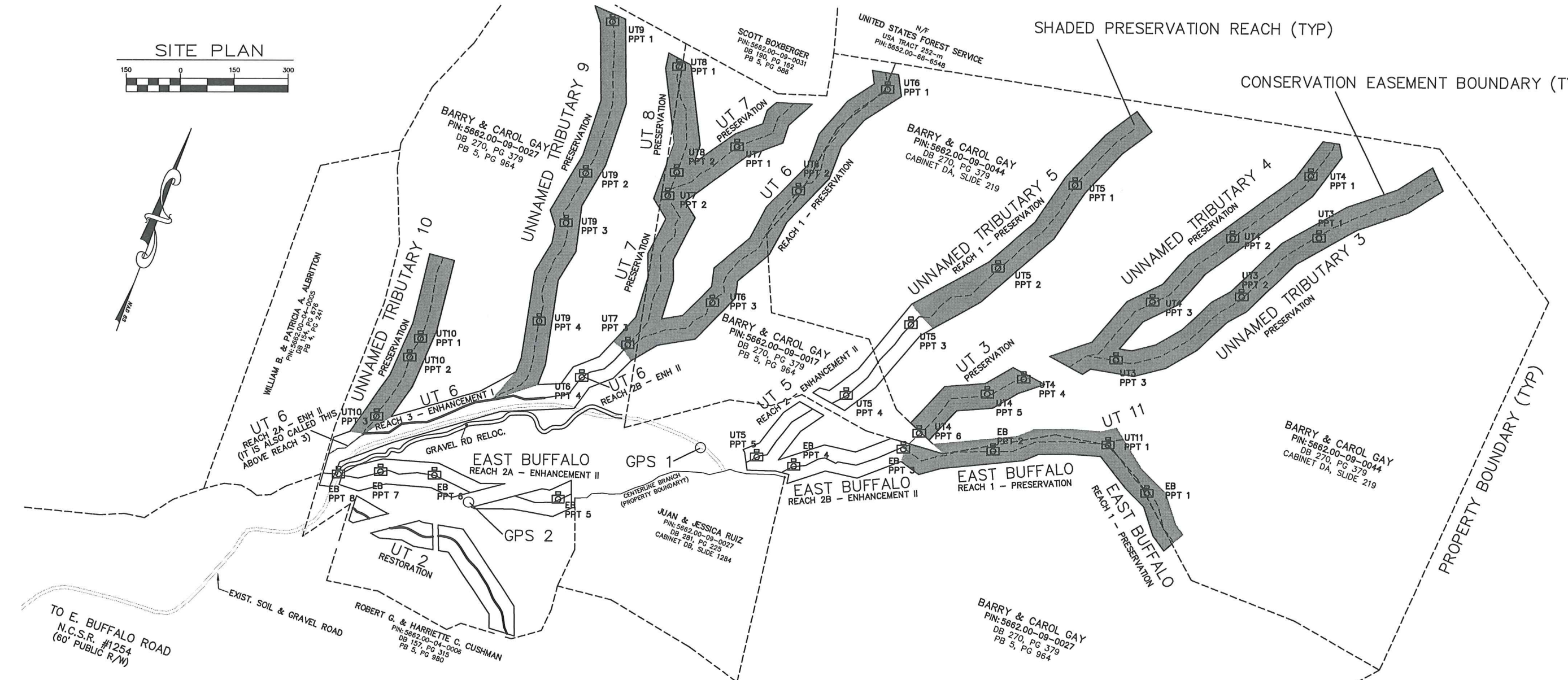
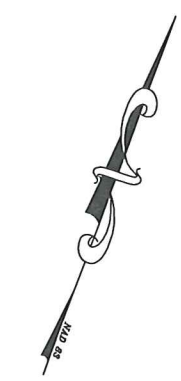
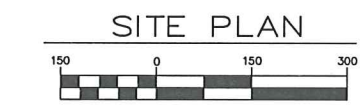
Michael Baker Engineering Inc.  
 NC Engineering License F-1084  
 797 Haywood Road, Suite 201  
 Asheville, North Carolina 28806  
 Phone: 828.350.1408  
 Fax: 828.350.1409

# Baker

EAST BUFFALO CREEK MITIGATION PROJECT  
 ROBBINSVILLE, NORTH CAROLINA  
 PRESERVATION REACH PHOTO POINTS

Prepared for:  
 Ecosystem Enhancement Program  
 2728 Capitol Blvd, Suite 1H 103  
 Raleigh, NC 27604  
 Phone: 919-715-0476  
 Fax: 919-715-2219

Project No. 113102  
 Date: 11/22/11  
 File Name: AsbuiltTitle.dwg  
 DESIGNED: SG,DH  
 DRAWN: MR  
 APPROVED: MC,JM  
 Drawing No. 12 of 12



TO E. BUFFALO ROAD  
 N.C.S.R. #1254  
 (60' PUBLIC R/W)

EXIST. SOIL & GRAVEL ROAD

ROBERT G. & HARRIETTE C. CUSHMAN  
 PIN: 5662.00-04-0006  
 DB 157, PG 315  
 PB 5, PG 980

JUAN & JESSICA RUIZ  
 PIN: 5662.00-09-0027  
 DB 281, PG 223  
 CABINET DB, SLIDE 1284

BARRY & CAROL GAY  
 PIN: 5662.00-09-0017  
 DB 270, PG 379  
 PB 5, PG 964

BARRY & CAROL GAY  
 PIN: 5662.00-09-0044  
 DB 270, PG 379  
 CABINET DA, SLIDE 219

BARRY & CAROL GAY  
 PIN: 5662.00-09-0044  
 DB 270, PG 379  
 CABINET DA, SLIDE 219

BARRY & CAROL GAY  
 PIN: 5662.00-09-0027  
 DB 270, PG 379  
 PB 5, PG 964