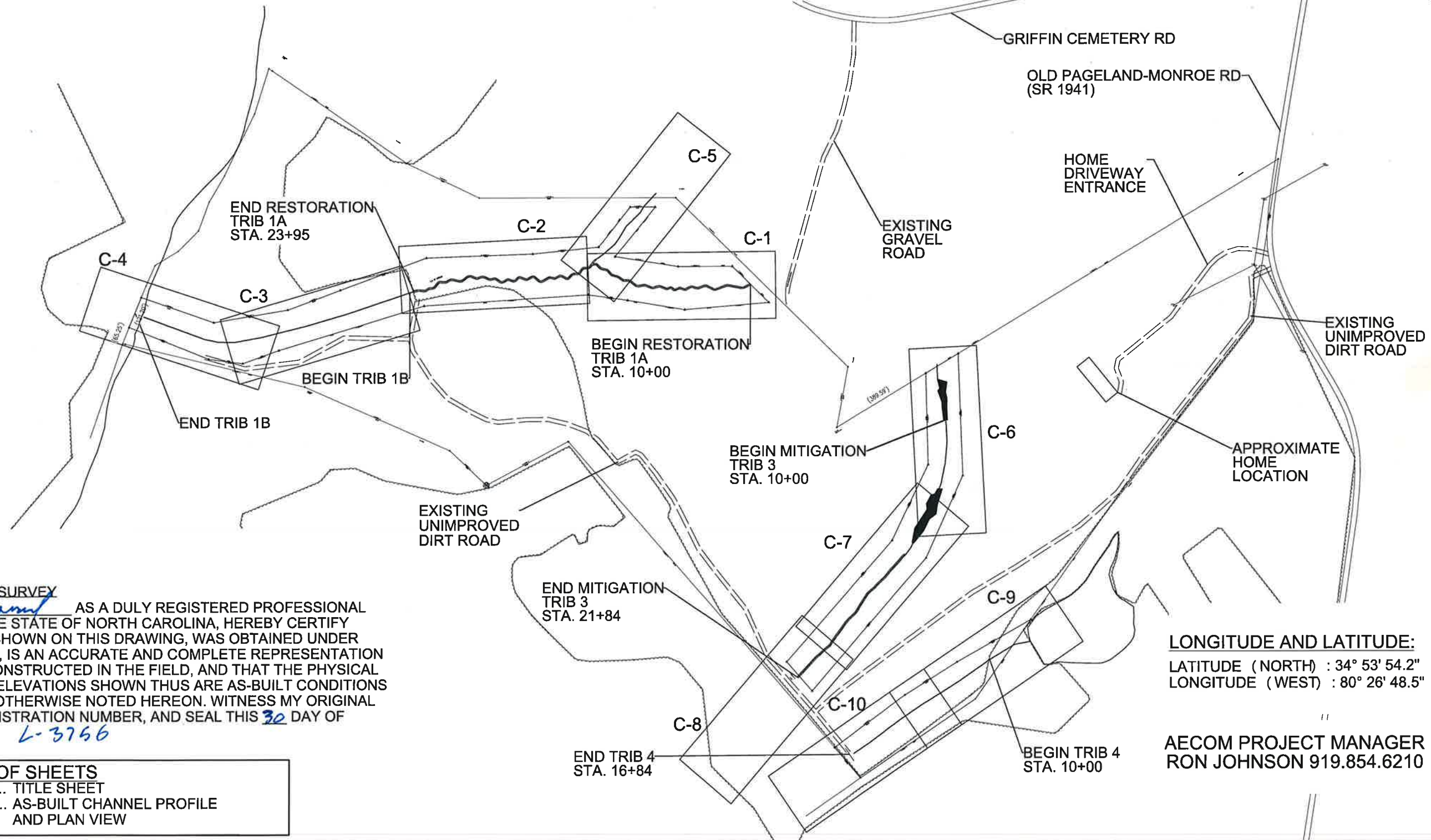
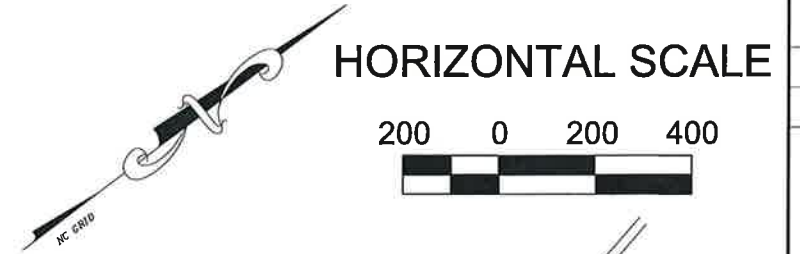




PROJECT LOCATION

VICINITY MAP (1 = 300')

AN AS-BUILT SURVEY FOR: TRIBUTARIES OF WICKER BRANCH STREAM RESTORATION UNION COUNTY, NC DMS Project No. 95022 Contract No. 003982



CERTIFICATE OF SURVEY

I, *Daniel K. Barrett* AS A DULY REGISTERED PROFESSIONAL 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 30 DAY OF OCTOBER, 2015. L-3756

LONGITUDE AND LATITUDE:
LATITUDE (NORTH) : 34° 53' 54.2"
LONGITUDE (WEST) : 80° 26' 48.5"

**AECOM PROJECT MANAGER
RON JOHNSON 919.854.6210**

INDEX OF SHEETS	
T-1.....	TITLE SHEET
C-1 THRU C-10.....	AS-BUILT CHANNEL PROFILE AND PLAN VIEW

NO	REVISIONS	DRN	CHK	DATE

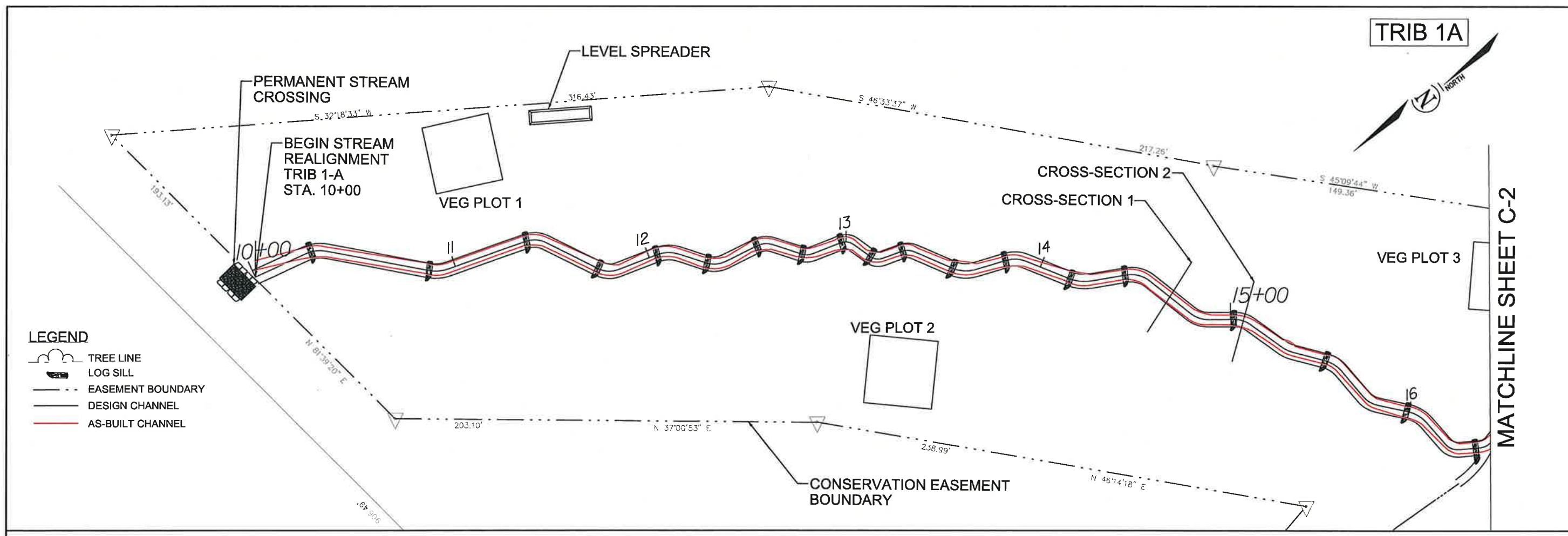
AECOM
701 Corporate Center Drive, Suite #475 Raleigh, NC 27607
Phone: (919) 854-9200 Fax: (919) 854-6259

TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
TITLE SHEET

DATE	10/30/2015
PROJECT NO	60220942
FILENAME	
SHEET NO	T-1
DRAWN BY	STP
CHKD BY	RCJ

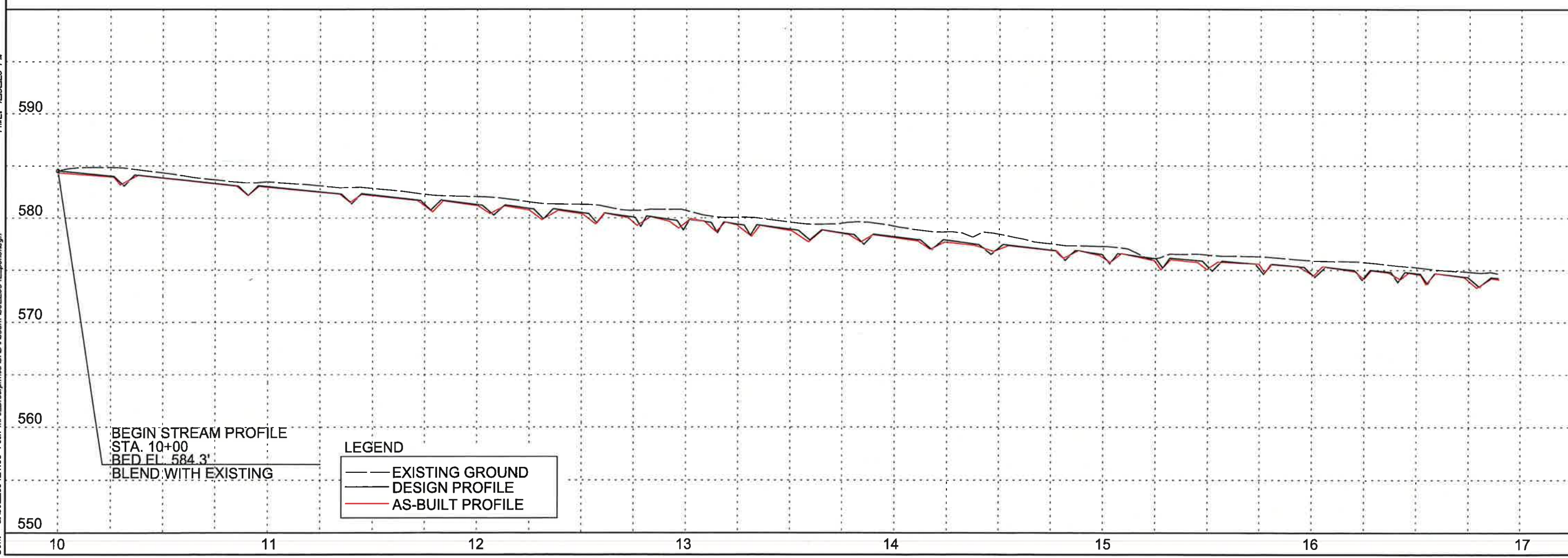
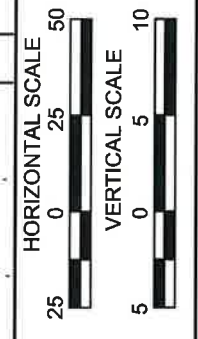
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TIME: 10:06:01 AM

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- LEGEND**
- TREE LINE
 - LOG SILL
 - EASEMENT BOUNDARY
 - DESIGN CHANNEL
 - AS-BUILT CHANNEL

NO	REVISIONS	DRN	CHK	DATE
1				
2				
3				



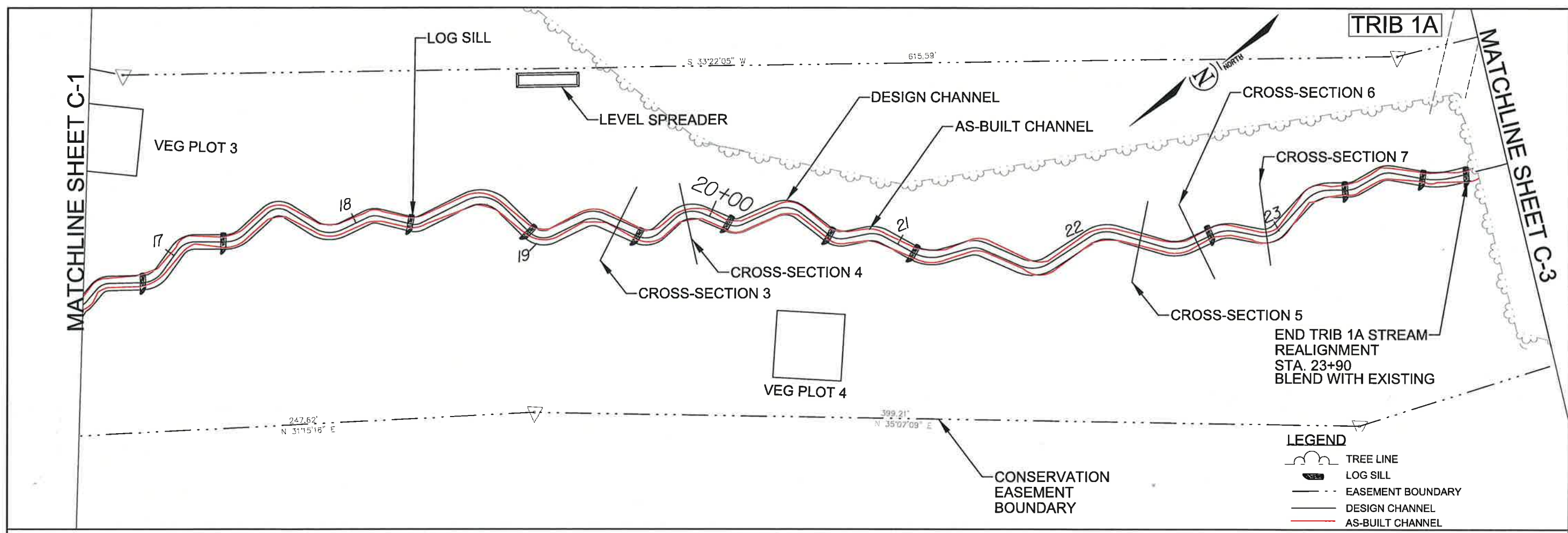
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TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
AS-BUILT PLAN SHEETS

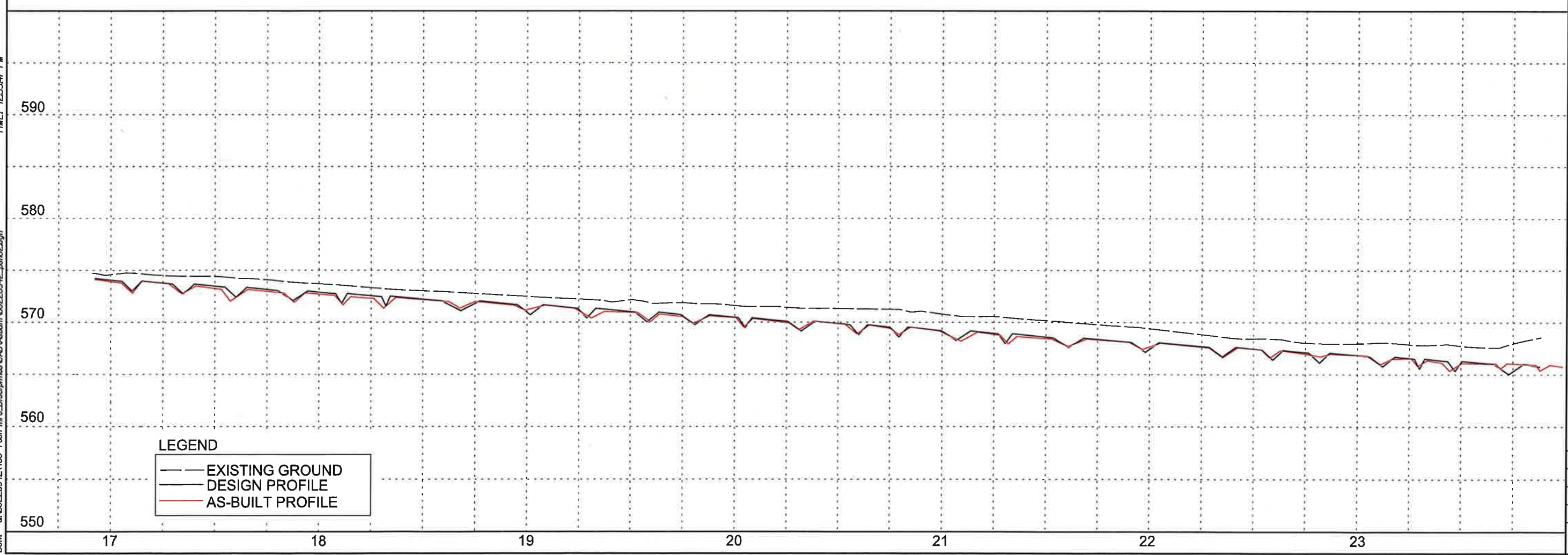
AECOM

701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-884-6200 | 919-884-6209 (fax)

DATE	10/28/2015
PROJECT NO.	60220942
FILENAME	
SHEET NO.	C-1
DRAWN BY	STP
CHKD BY	RCJ

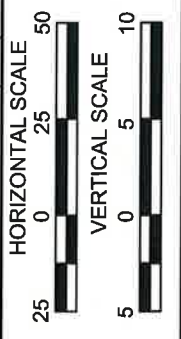


- LEGEND**
- TREE LINE
 - LOG SILL
 - EASEMENT BOUNDARY
 - DESIGN CHANNEL
 - AS-BUILT CHANNEL



- LEGEND**
- EXISTING GROUND
 - DESIGN PROFILE
 - AS-BUILT PROFILE

NO	REVISIONS	DRN	CHK	DATE
1				
2				
3				



TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
 AS-BUILT PLAN SHEETS

AECOM
 701 CORPORATE CENTER DRIVE, SUITE 400, RALEIGH, NC 27607
 919-854-4000 919-854-4239 (fax)

DATE: 10/28/2015
 PROJECT NO: 60220942
 SHEET NO: C-2
 DRAWN BY: STP
 CHKD BY: RCJ

USER: p/ress
 DATE: 10/28/2015
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MATCHLINE SHEET C-2

TRIB 1B

UNIMPROVED DIRT ROAD

EXISTING CHANNEL (APPROXIMATE LOCATION TRACED FROM AERIAL IMAGE)

RIGHT BANK REGRADED

LEGEND

- TREE LINE
- EASEMENT BOUNDARY
- EXISTING CHANNEL



S 20°09'20" W 567.25'

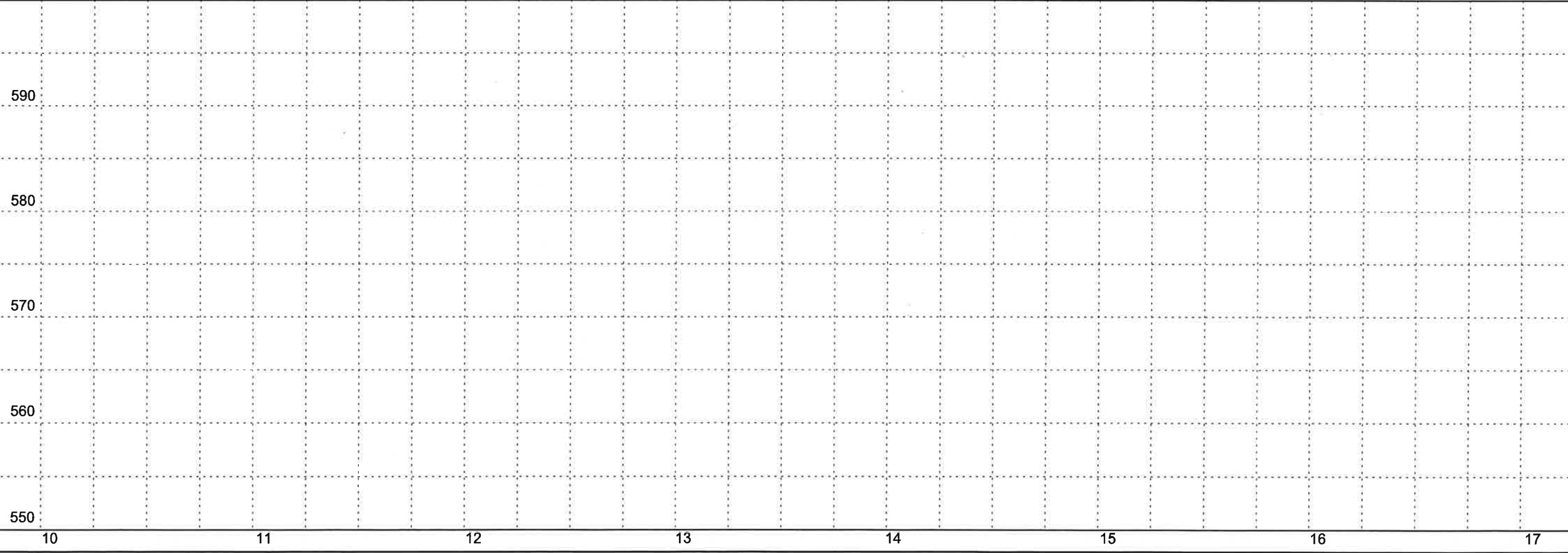
S 17°19'14" W 143.31'

N 16°37'25" E 208.88'

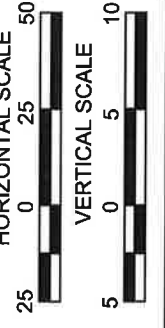
N 27°39'32" E 281.69'

DATE: 10/28/2015
TIME: 12:55:21 PM

USER: p/ress
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NO	REVISIONS	DRN	CHK	DATE
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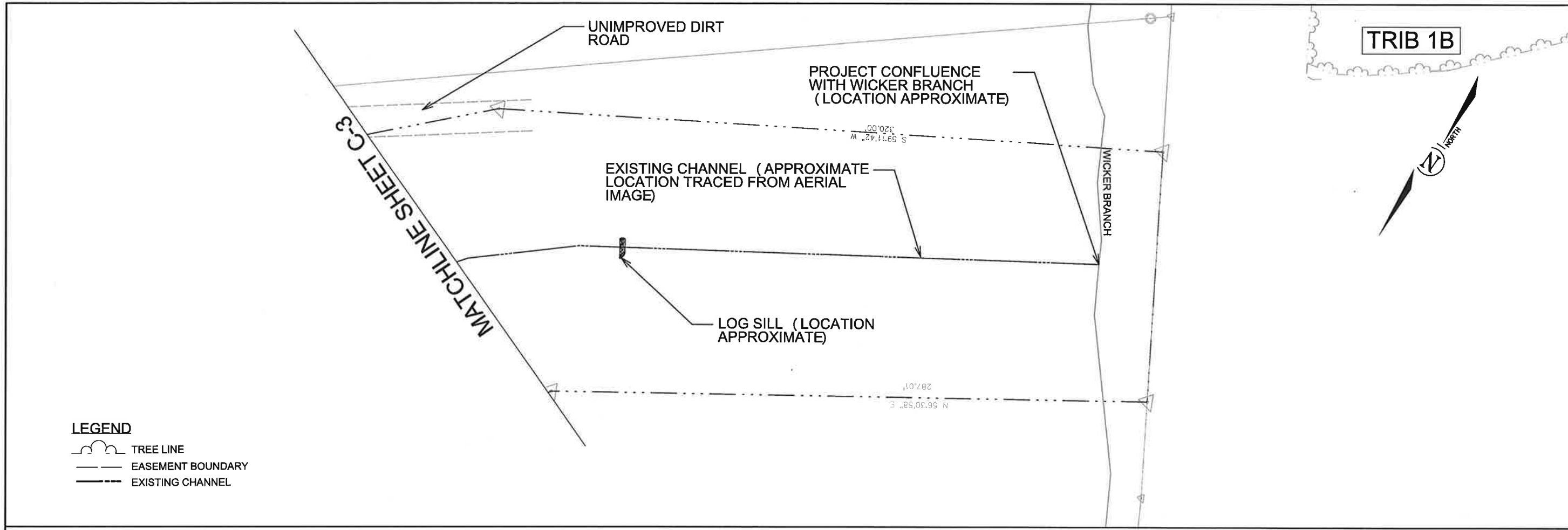


TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
AS-BUILT PLAN SHEETS

AECOM
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-4000 919-854-4239 (fax)

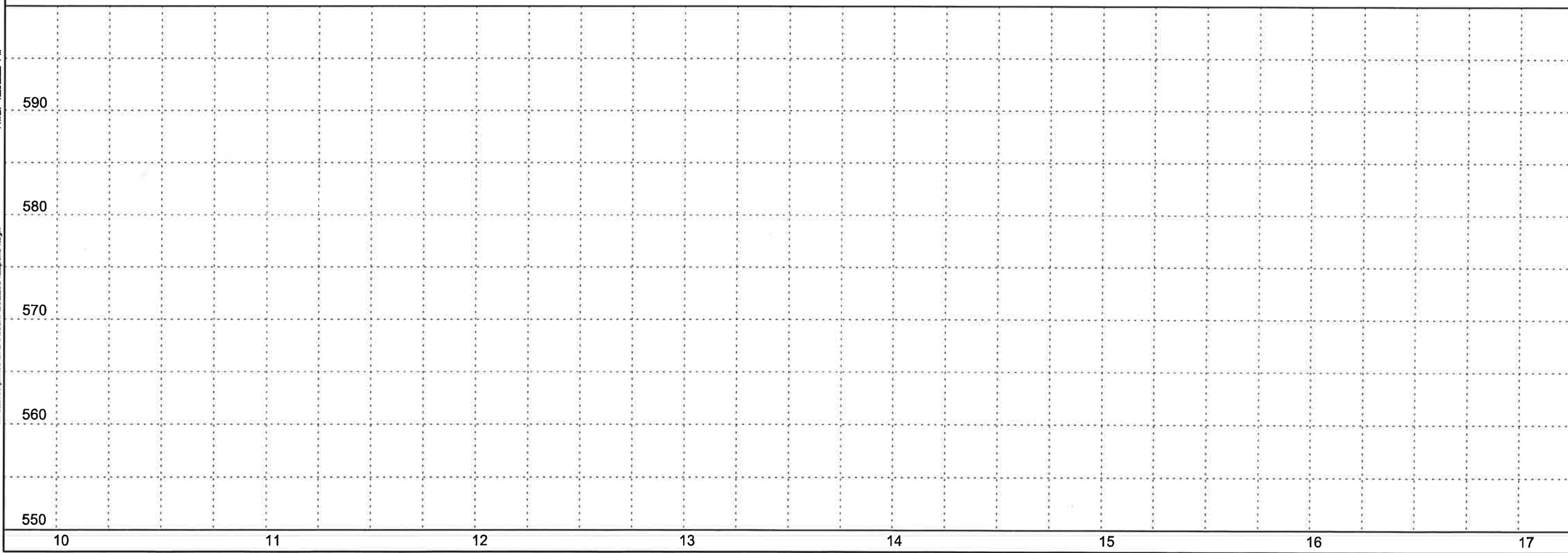
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PROJECT NO	60220942
FILENAME	
SHEET NO	C-3
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CHKD BY	RCJ

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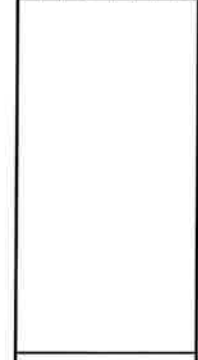


LEGEND

- TREE LINE
- EASEMENT BOUNDARY
- EXISTING CHANNEL



NO	REVISIONS	DRN	CHK	DATE
1				
2				
3				



TRIBUARIES OF WICKER BRANCH
 STREAM RESTORATION
 AS-BUILT PLAN SHEETS



701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 #9800-000 910/4842228 (TX)

DATE	10/28/2015
PROJECT NO	60220942
FILENAME	
SHEET NO	C-4
DRAWN BY	STP
CHKD BY	RCJ

TRIB 3



EXISTING CHANNEL

EXISTING WETLAND

EXISTING WETLAND

10+00

VEG PLOT 5

LOG SILL OMITTED DUE TO CHANNEL STABILITY IN EXISTING STATE

12

VEG PLOT 6

13

14

S 55°07'45" E
457.85'

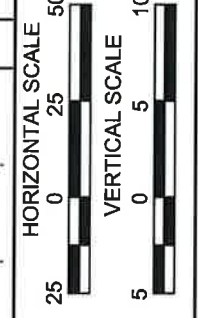
N 54°27'30" W
342.76'

S 29°02'29" E
338.21'

- LEGEND**
- TREE LINE
 - LOG SILL CONSTRUCTED
 - LOG SILL OMITTED
 - EASEMENT BOUNDARY
 - EXISTING CHANNEL

MATCHLINE SHEET C-7

NO	REVISIONS	DRN	CHK	DATE
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2				
3				

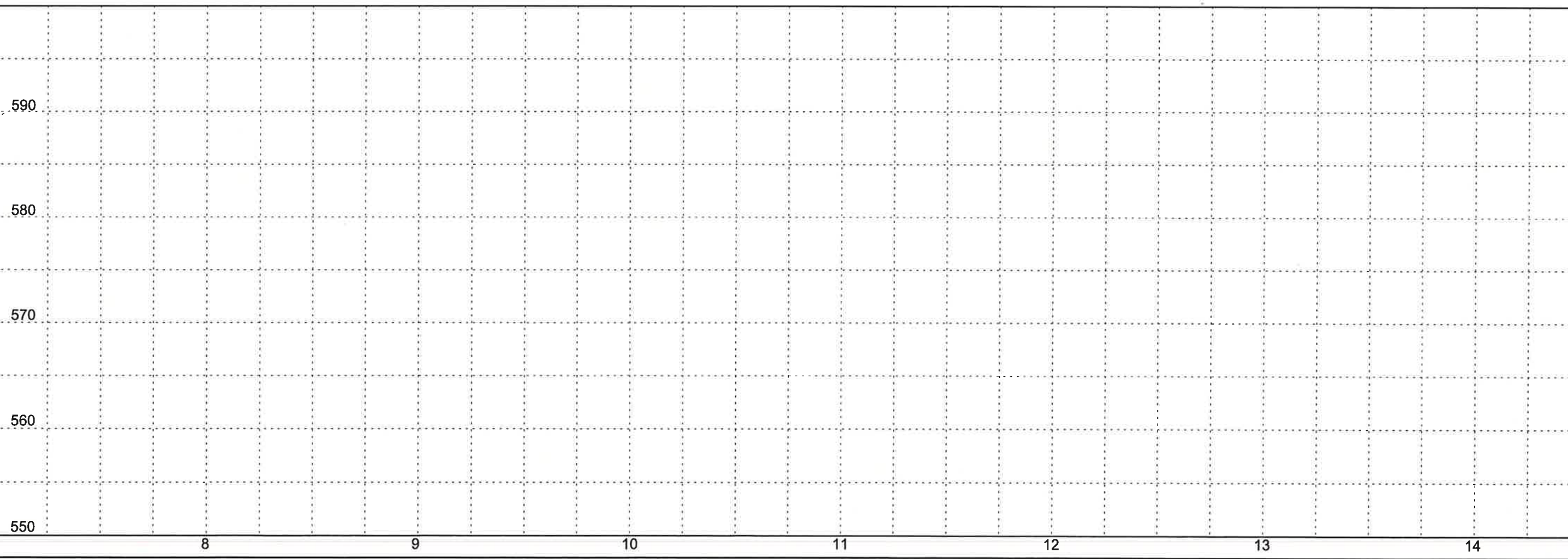


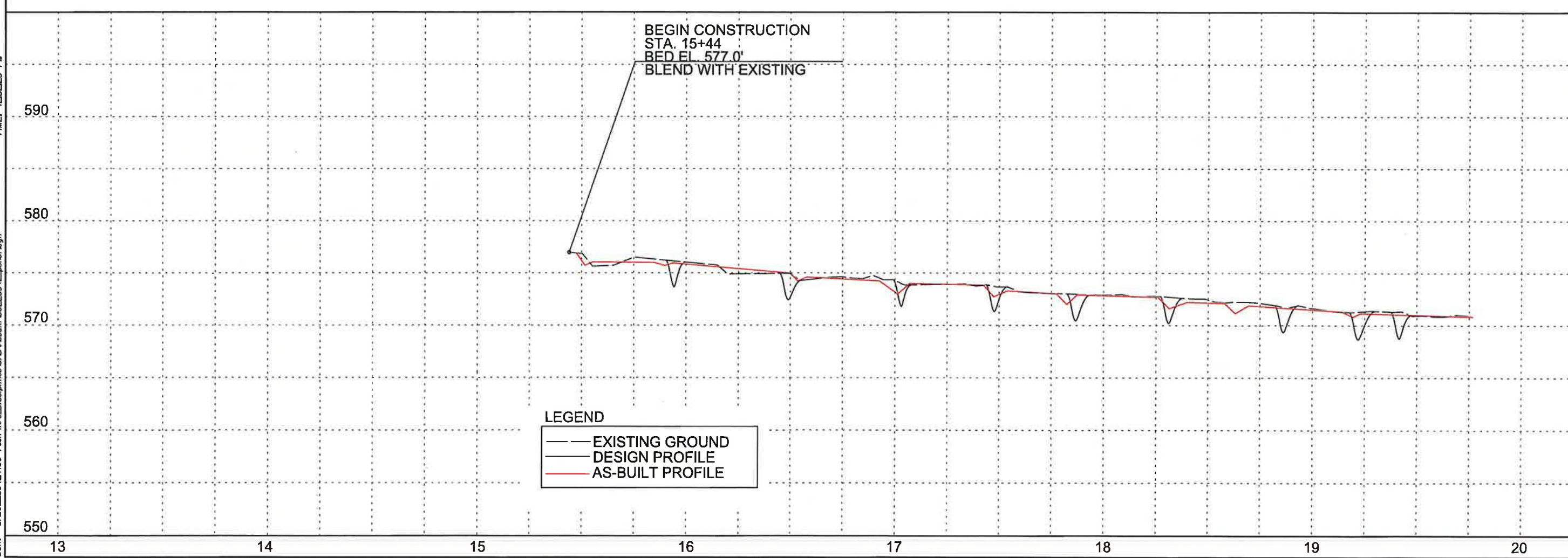
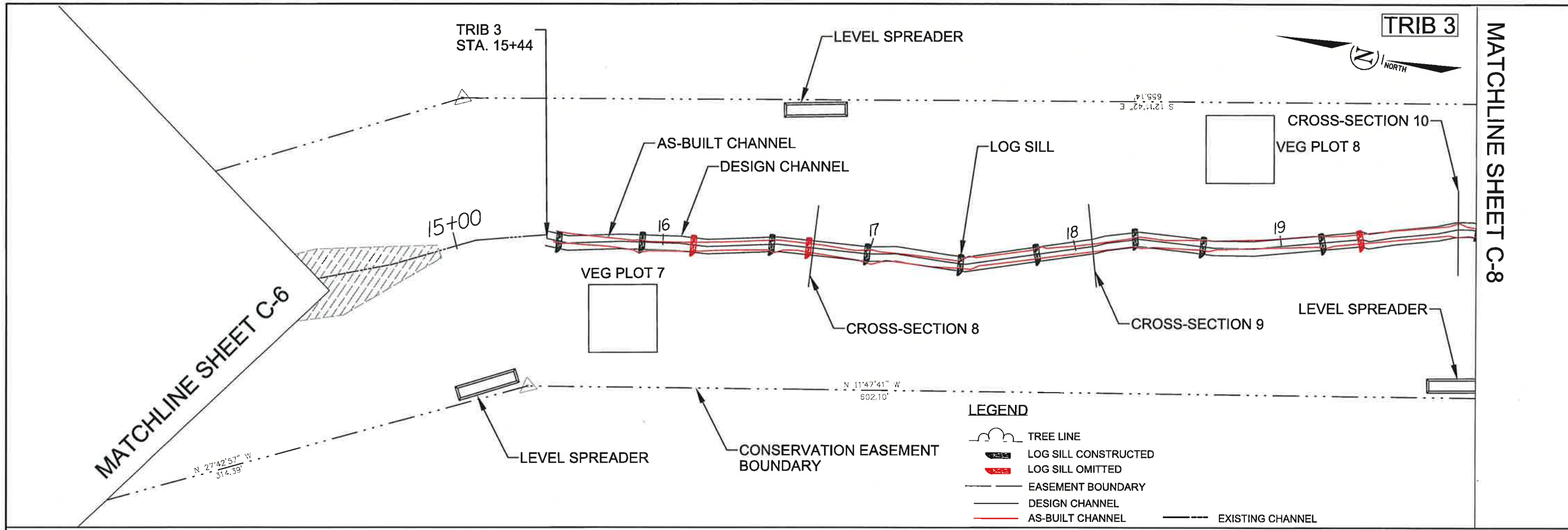
TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
AS-BUILT PLAN SHEETS

AECOM
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
PH: 919.873.1100 FAX: 919.873.1101

DATE	10/28/2015
PROJECT NO	60220942
FILENAME	
SHEET NO	C-6
DRAWN BY	STP
CHKD BY	RCJ

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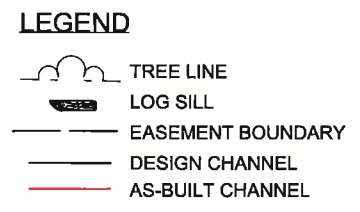
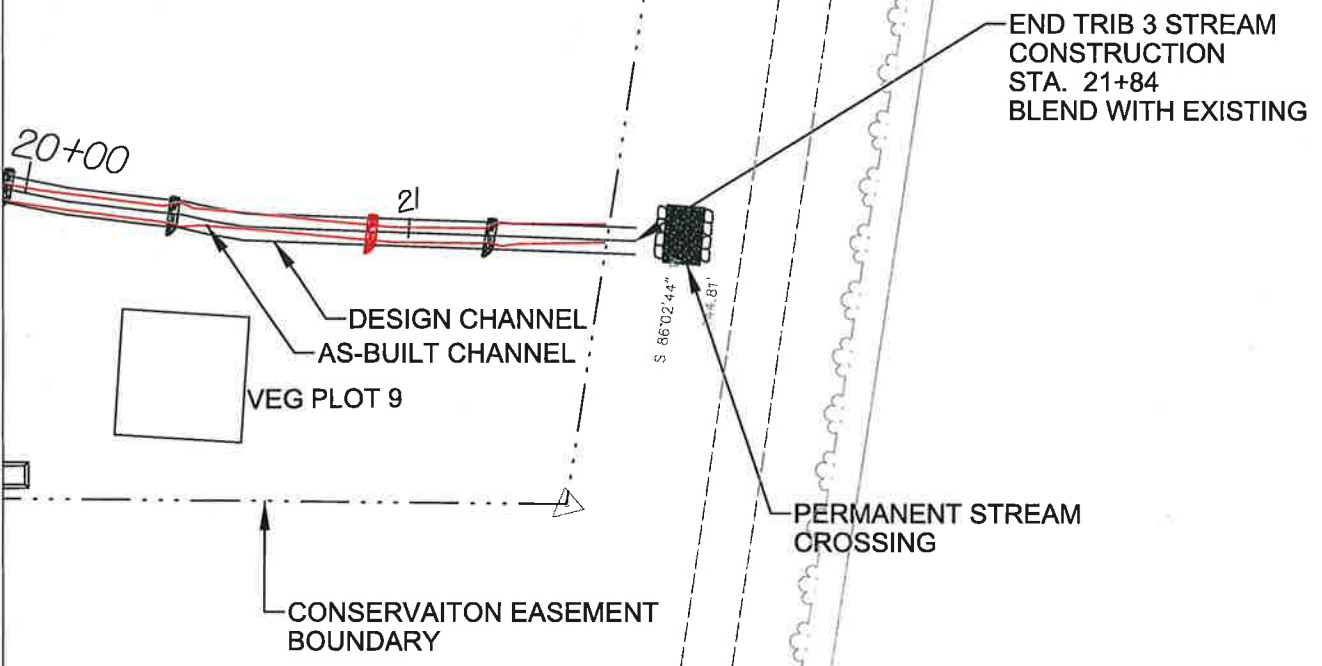
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REVISIONS							
TRIBUTARIES OF WICKER BRANCH STREAM RESTORATION AS-BUILT PLAN SHEETS							
AECOM <small>701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607 919-884-6200 919-884-6259 (fax)</small>							
DATE: 10/28/2015 PROJECT NO: 60220942 FILENAME: SHEET NO: C-7 DRAWN BY: STP CHKD BY: RCJ							

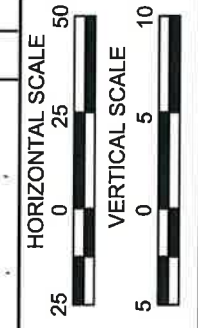
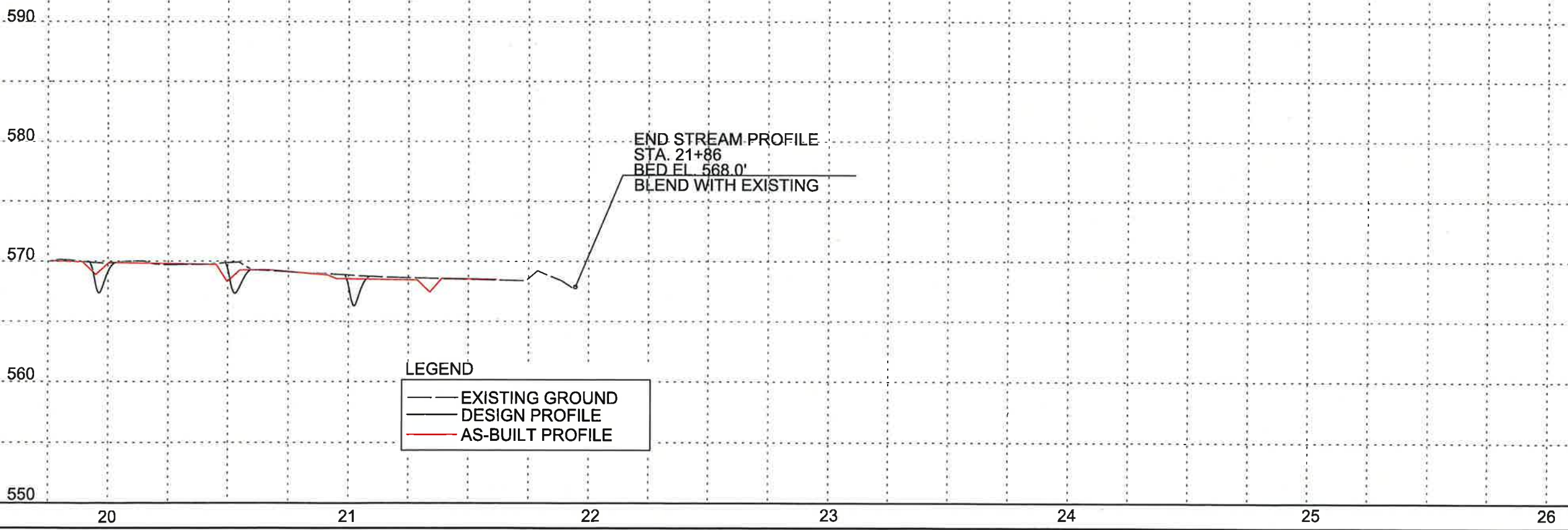
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MATCHLINE SHEET C-7

TRIB 3



NO	REVISIONS	DRN	CHK	DATE
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2				
3				



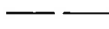




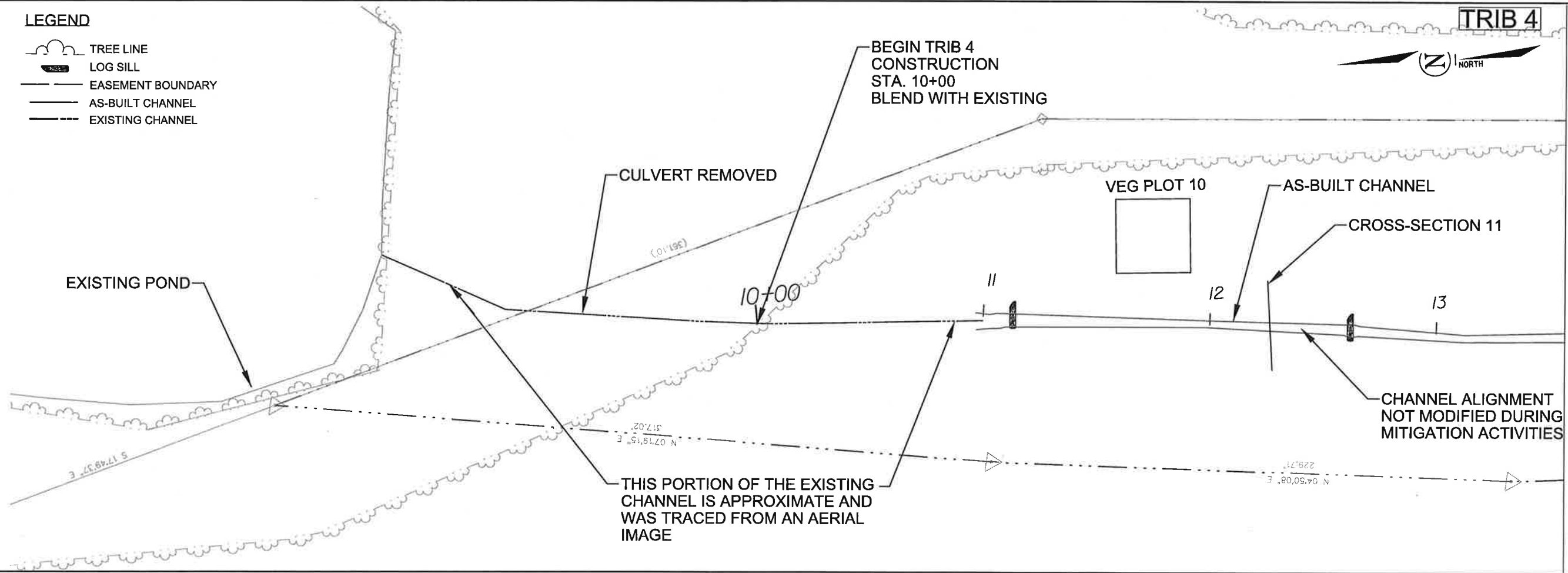
TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
 AS-BUILT PLAN SHEETS

AECOM
 701 CORPORATE CENTER DRIVE, SUITE 415, RALEIGH, NC 27607
 919-854-4200 919-854-4239 (fax)

DATE	10/28/2015
PROJECT NO	60220942
FILENAME	
SHEET NO	C-8
DRAWN BY	STP
CHKD BY	RCJ

LEGEND

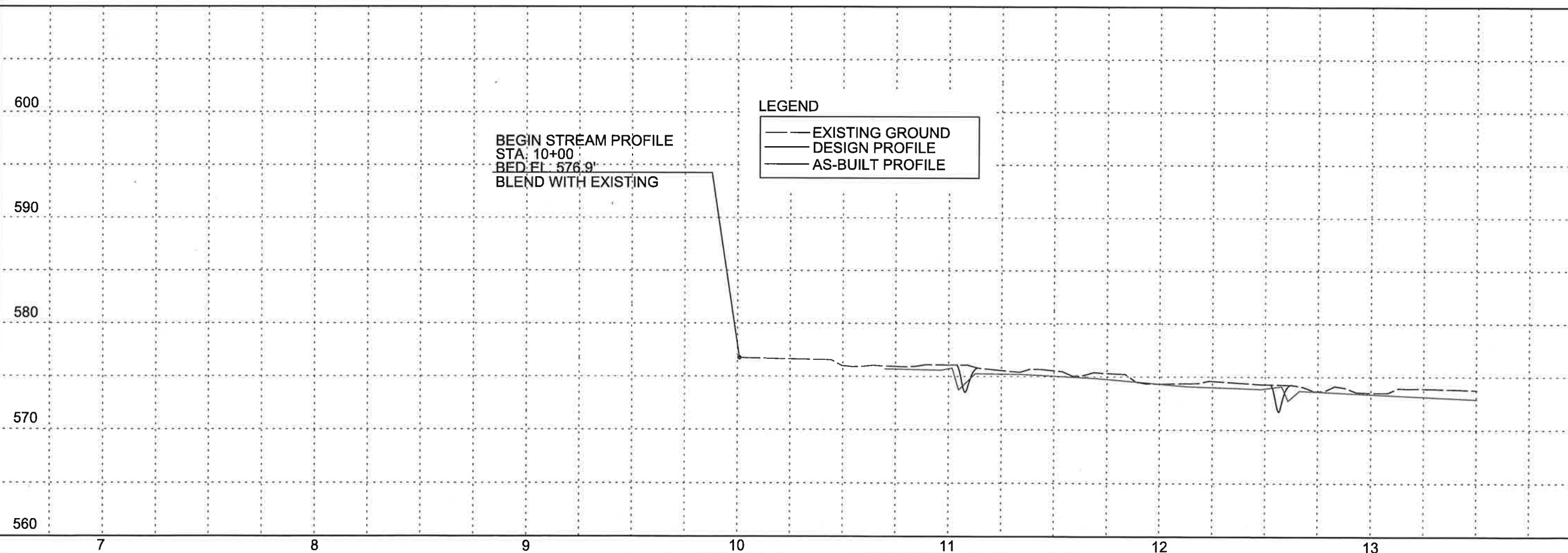
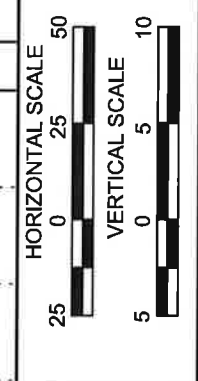
-  TREE LINE
-  LOG SILL
-  EASEMENT BOUNDARY
-  AS-BUILT CHANNEL
-  EXISTING CHANNEL



MATCHLINE SHEET C-10

NO	REVISIONS	DRN	CHK	DATE
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3				

<p>DATE: 10/28/2015 TIME: 12:52:24 PM</p>				
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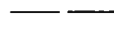

- LEGEND**
-  EXISTING GROUND
 -  DESIGN PROFILE
 -  AS-BUILT PROFILE

TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
 AS-BUILT PLAN SHEETS
AECOM
701 CORPORATE CENTER DRIVE, SUITE 415, RALEIGH, NC 27607
 919-884-6200 919-884-6239 (fax)

DATE	10/28/2015
PROJECT NO	60220942
FILENAME	
SHEET NO	C-9
DRAWN BY	STP
CHKD BY	RCJ

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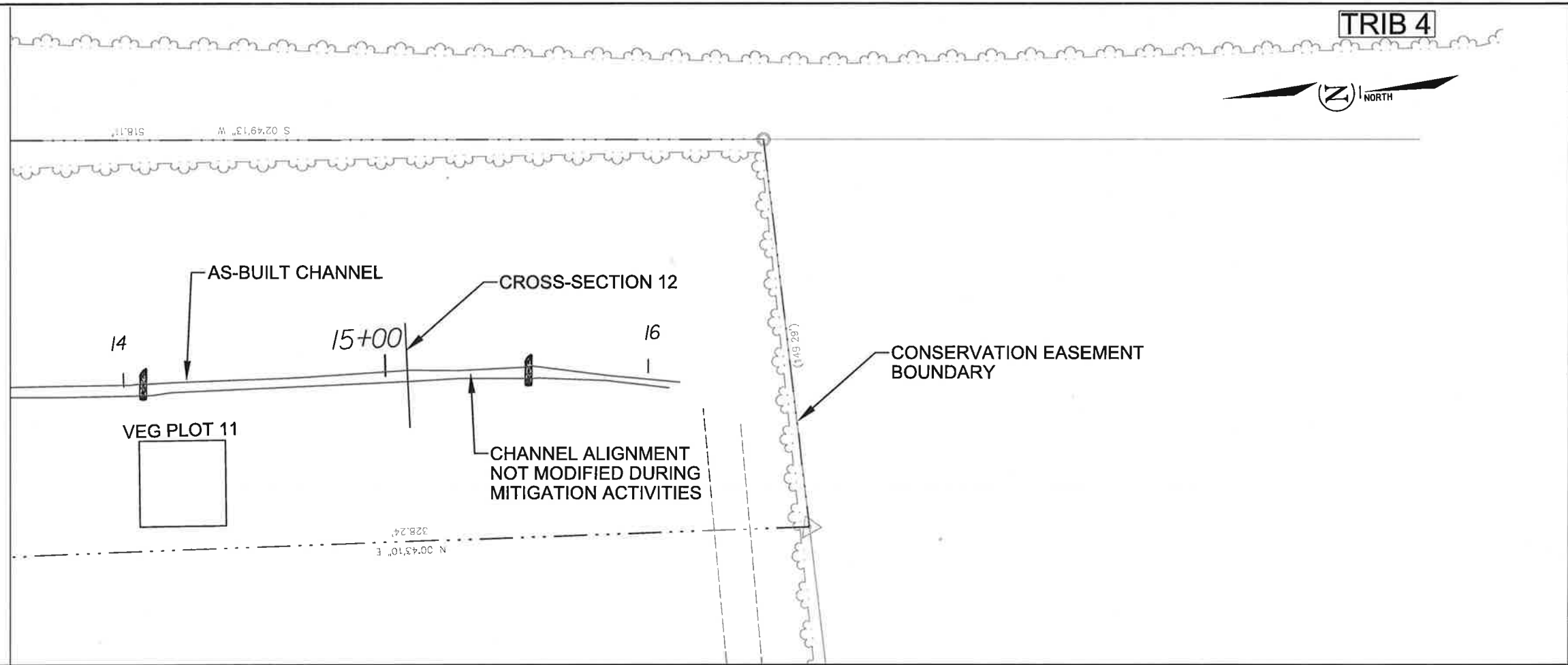
LEGEND

-  TREE LINE
-  LOG SILL
-  EASEMENT BOUNDARY
-  AS-BUILT CHANNEL

TRIB 4

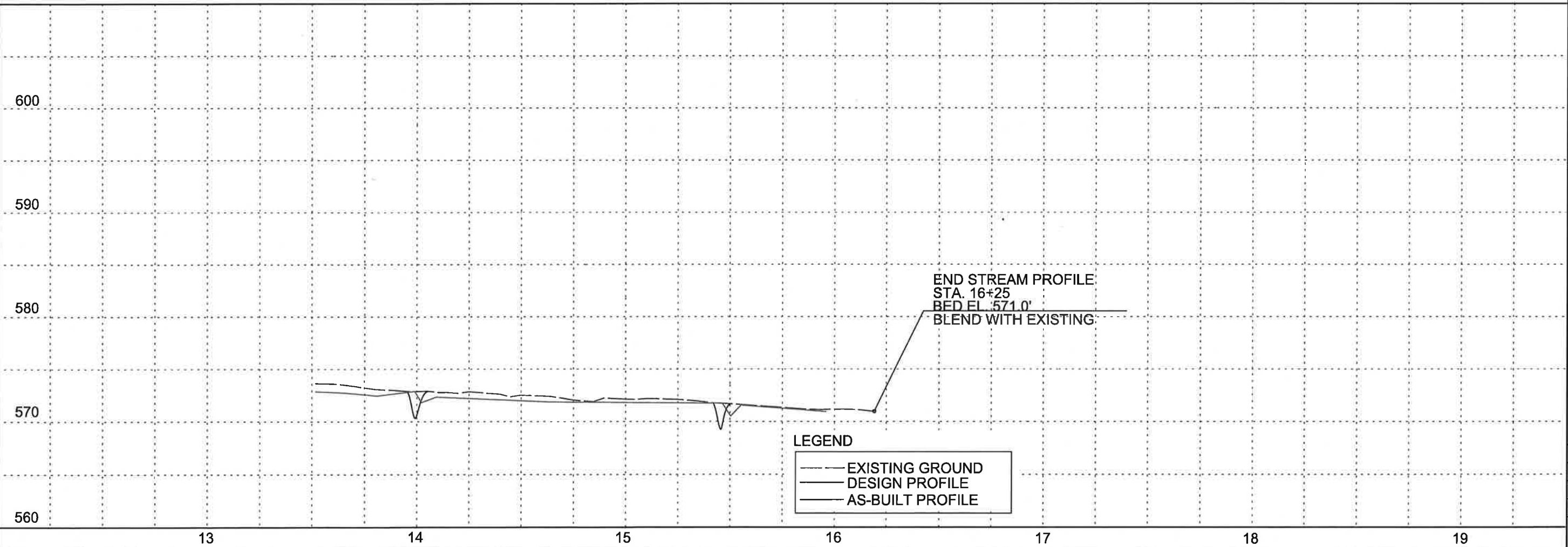


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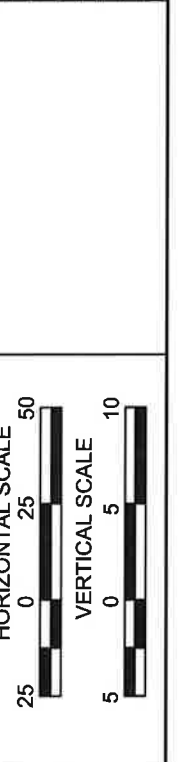
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LEGEND

-  EXISTING GROUND
-  DESIGN PROFILE
-  AS-BUILT PROFILE

NO	REVISIONS	DRN	CHK	DATE
1				
2				
3				



TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
AS-BUILT PLAN SHEETS

AECOM
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-4200 919-854-4209 (fax)

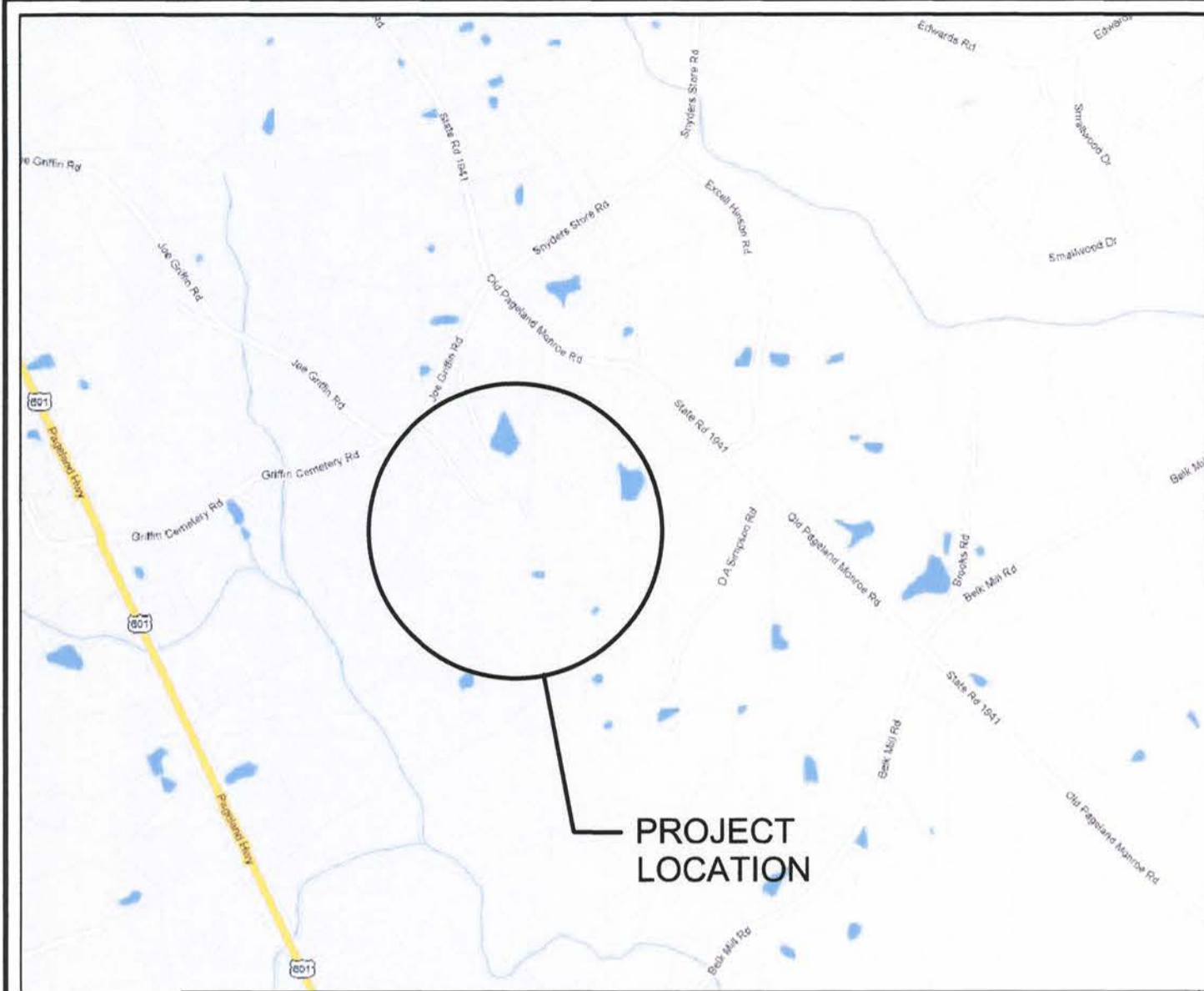
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PROJECT NO	60220942
FILENAME	
SHEET NO	C-10
DRAWN BY	STP
CHKD BY	RCJ

TRIBUTARIES OF WICKER BRANCH STREAM RESTORATION UNION COUNTY, NC (PROJECT PLAN SHEETS)

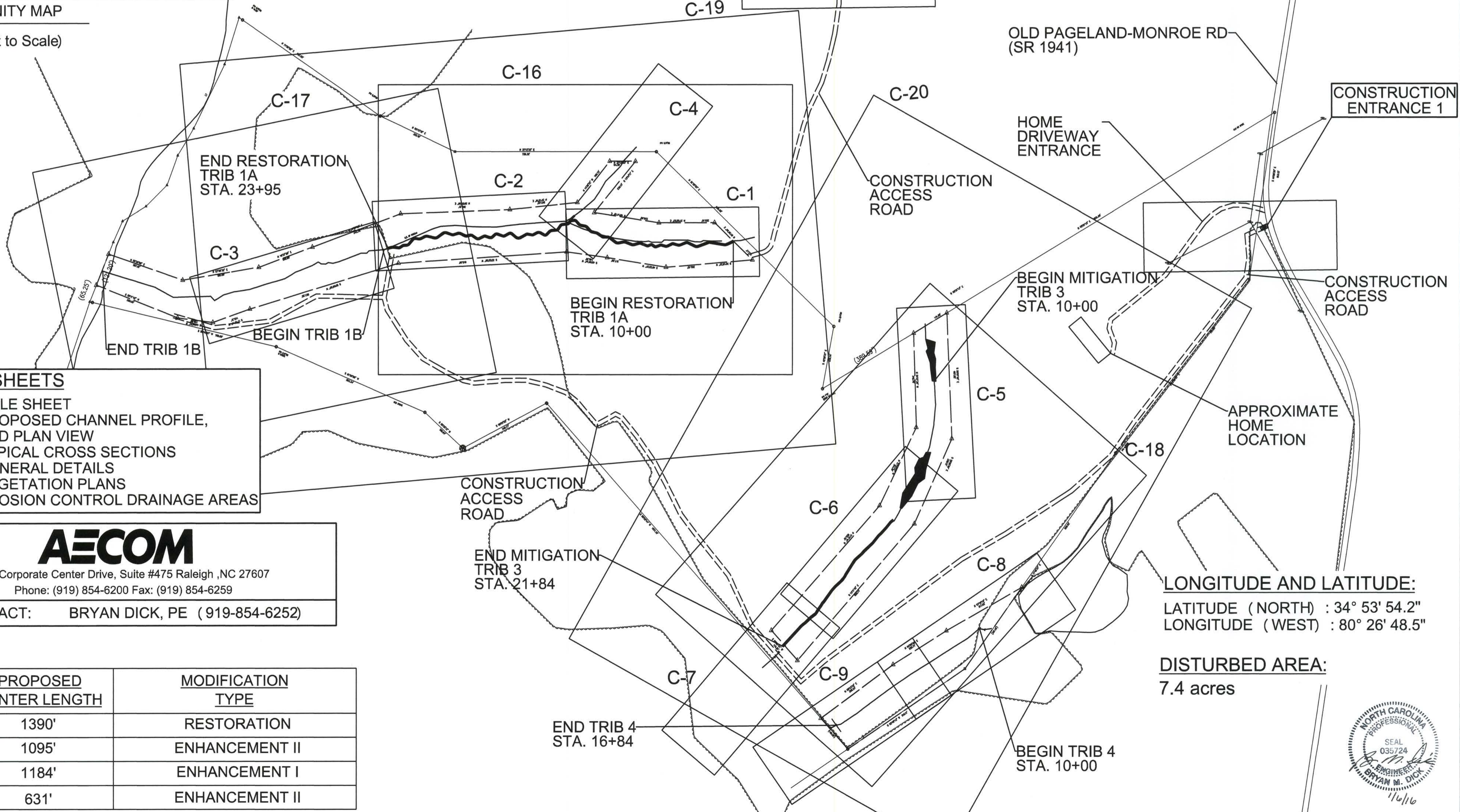
Clearing, grading, erosion control, stream restoration, drainage, landscaping, and other improvements as noted on the plans. This work will include all items necessary to construct the stream, the wet swales, and associated structures with the associated landscaping, plantings, seeding and live staking.

RECEIVING STREAM: WICKER BRANCH
NCDWQ CLASSIFICATION: WS-V

RECORD DRAWING



VICINITY MAP
(Not to Scale)



NO	REVISIONS	CHK	DATE

INDEX OF SHEETS

- T-1..... TITLE SHEET
- C-1 THRU C-8..... PROPOSED CHANNEL PROFILE, AND PLAN VIEW
- C-9 THRU C-10..... TYPICAL CROSS SECTIONS
- C-11 THRU C-15..... GENERAL DETAILS
- C-16 THRU C-18..... VEGETATION PLANS
- C-19 THRU C-20..... EROSION CONTROL DRAINAGE AREAS

CONSULTANT:



701 Corporate Center Drive, Suite #475 Raleigh, NC 27607
Phone: (919) 854-6200 Fax: (919) 854-6259

SENIOR DESIGN CONTACT: BRYAN DICK, PE (919-854-6252)

STREAM DATA

STREAM REACH	PROPOSED CENTER LENGTH	MODIFICATION TYPE
TRIB 1A	1390'	RESTORATION
TRIB 1B	1095'	ENHANCEMENT II
TRIB 3	1184'	ENHANCEMENT I
TRIB 4	631'	ENHANCEMENT II

LONGITUDE AND LATITUDE:

LATITUDE (NORTH) : 34° 53' 54.2"
LONGITUDE (WEST) : 80° 26' 48.5"

DISTURBED AREA:

7.4 acres

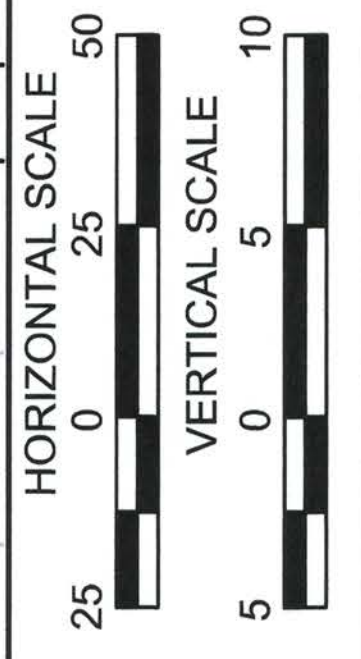
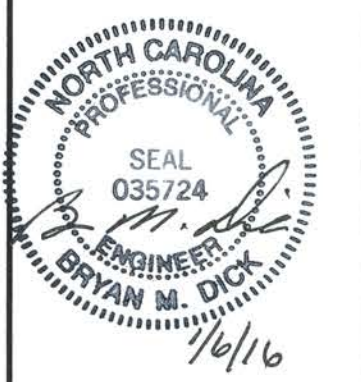
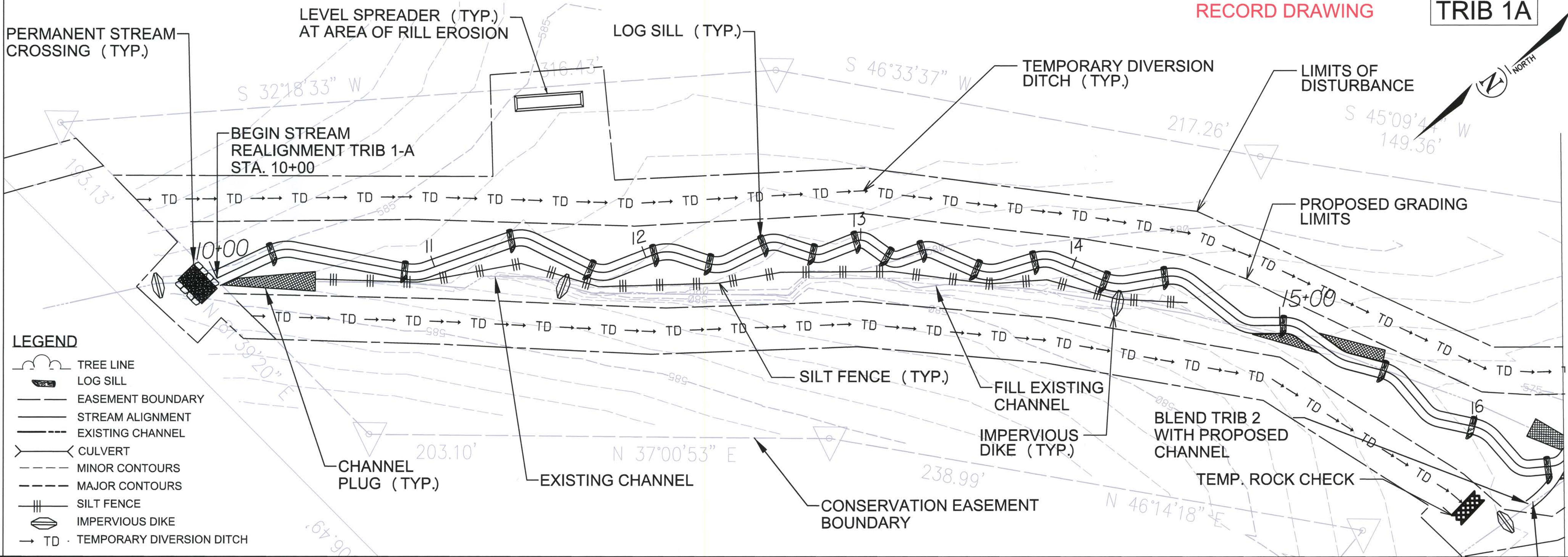


TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
TITLE SHEET

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PROJECT NO	60220942
FILENAME	
SHEET NO	T-1
DRAWN BY	STP
CHKD BY	BMD

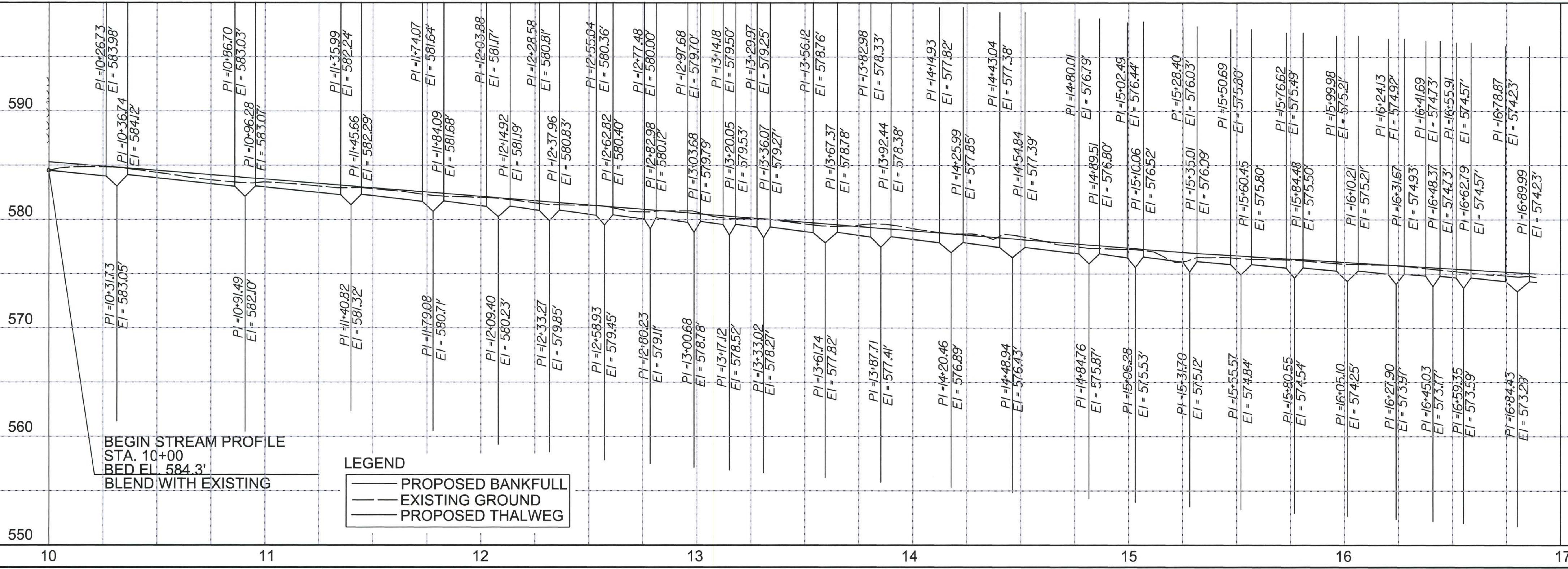
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TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
 PLAN VIEW, GRADING, AND DRAINAGE

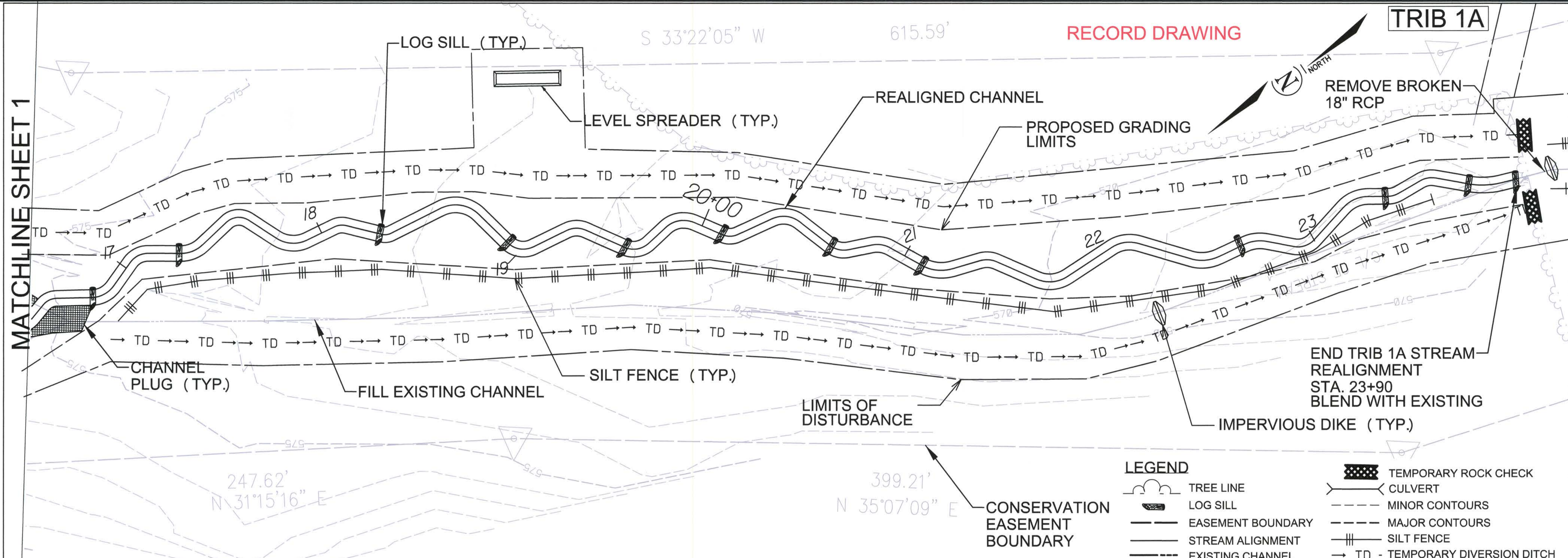


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FILENAME	
SHEET NO	C-1
DRAWN BY	STP
CHKD BY	BMD

701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-4200 919-854-4259 (fax)

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MATCHLINE SHEET 1

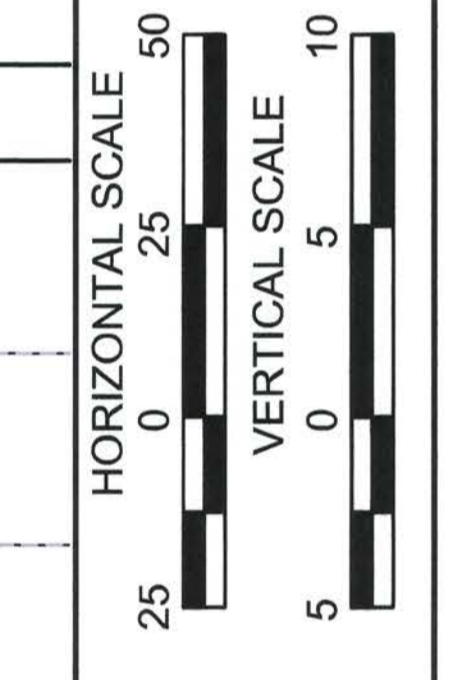
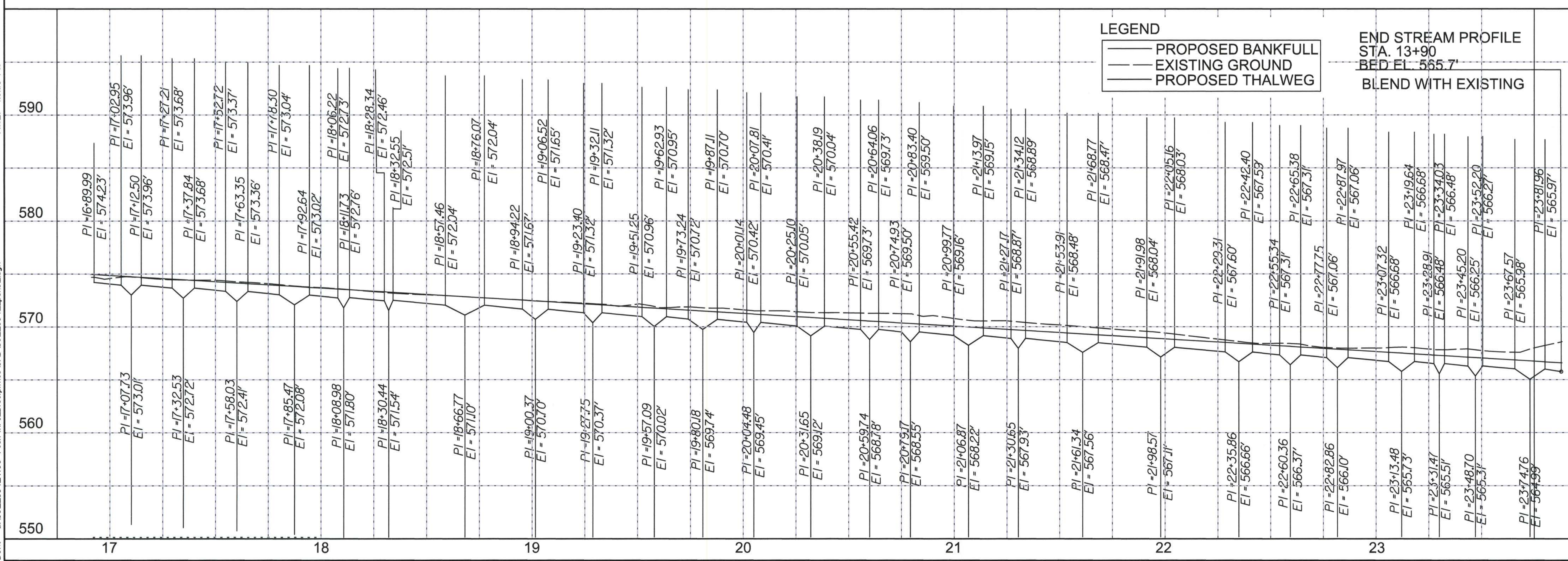
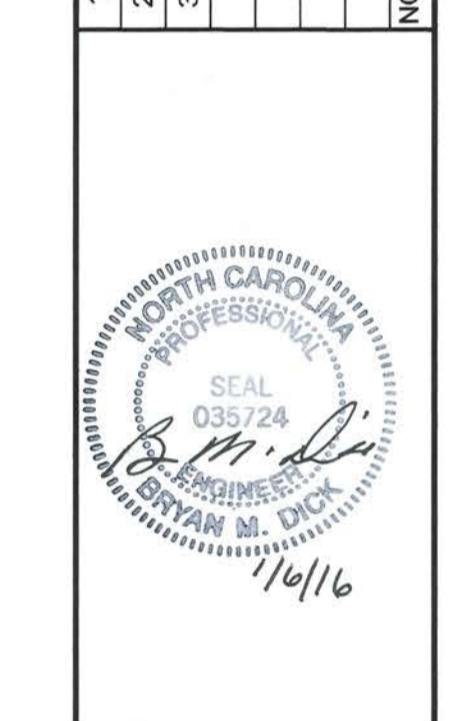


RECORD DRAWING

TRIB 1A

- LEGEND**
- TREE LINE
 - LOG SILL
 - EASEMENT BOUNDARY
 - STREAM ALIGNMENT
 - EXISTING CHANNEL
 - TEMPORARY ROCK CHECK
 - CULVERT
 - MINOR CONTOURS
 - MAJOR CONTOURS
 - SILT FENCE
 - TD - TEMPORARY DIVERSION DITCH

NO	REVISIONS	DRN	CHK	DATE
1				
2				
3				

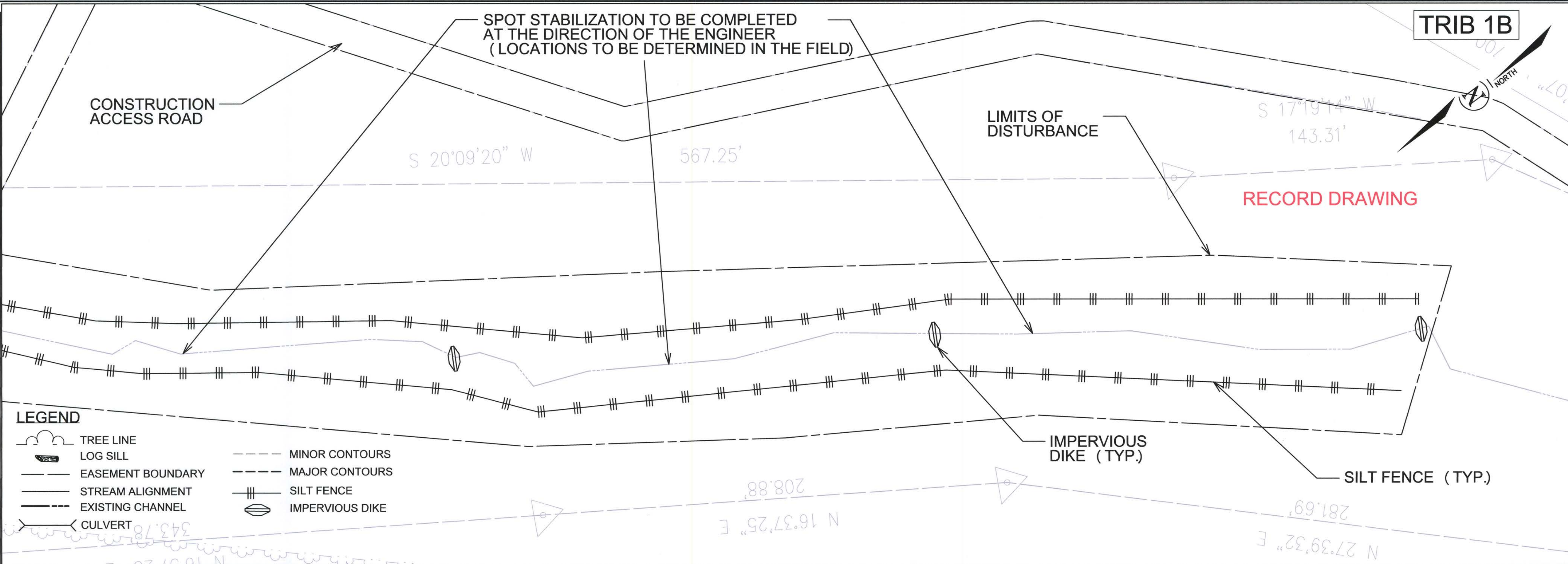


TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
PLAN VIEW, GRADING, AND DRAINAGE

DATE: 3/5/2014
 PROJECT NO: 60220942
 FILENAME:
 SHEET NO: C-2
 DRAWN BY: STP
 CHKD BY: BMD

AECOM
 701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
 919-854-5200 / 919-854-5259 (fax)

MATCHLINE SHEET C-2

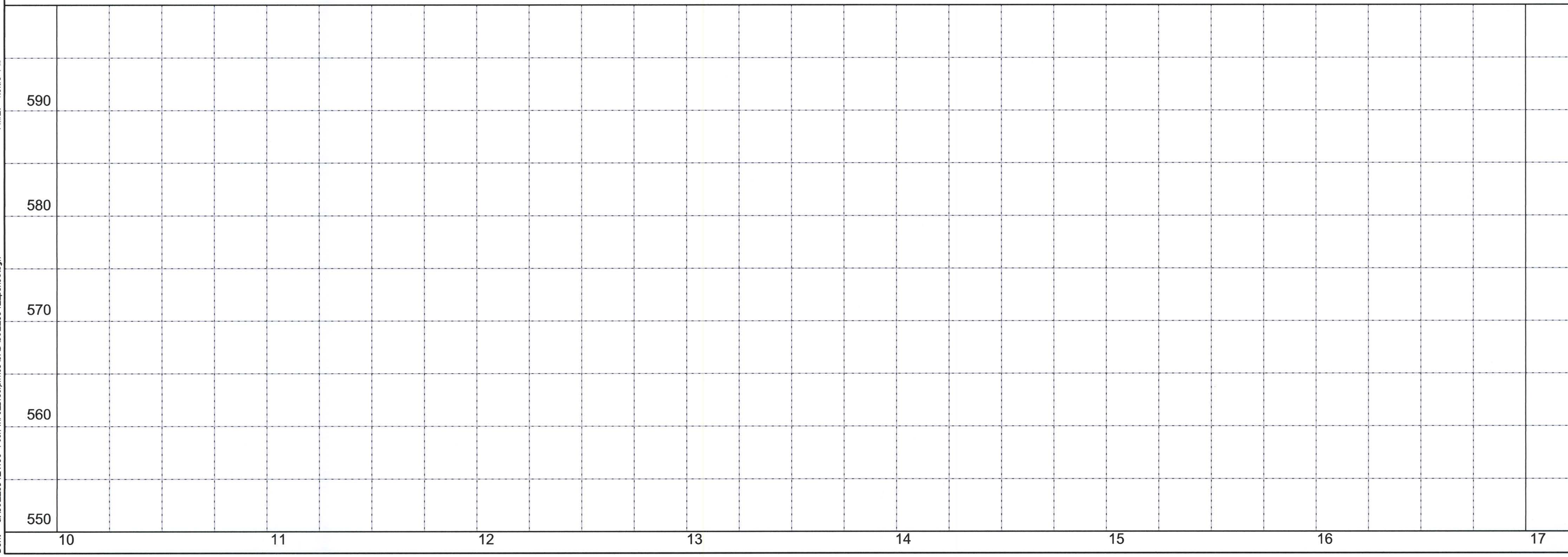


LEGEND

- TREE LINE
- LOG SILL
- EASEMENT BOUNDARY
- STREAM ALIGNMENT
- EXISTING CHANNEL
- CULVERT
- MINOR CONTOURS
- MAJOR CONTOURS
- SILT FENCE
- IMPERVIOUS DIKE



DATE: 3/5/2014
 TIME: 4:01:16 PM
 USER: p1ress
 DGN: G:\60220942\400 Tech Info_Disciplines\CAD\60220942_pst03.dgn



TRIBUTARIES OF WICKER BRANCH STREAM RESTORATION	
PLAN VIEW, GRADING, AND DRAINAGE	
<small>701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607 919-854-4200 919-854-4299 (fax)</small>	
DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-3
DRAWN BY	STP
CHKD BY	BMD

NO	REVISIONS	DRN	CHK	DATE
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2				
3				

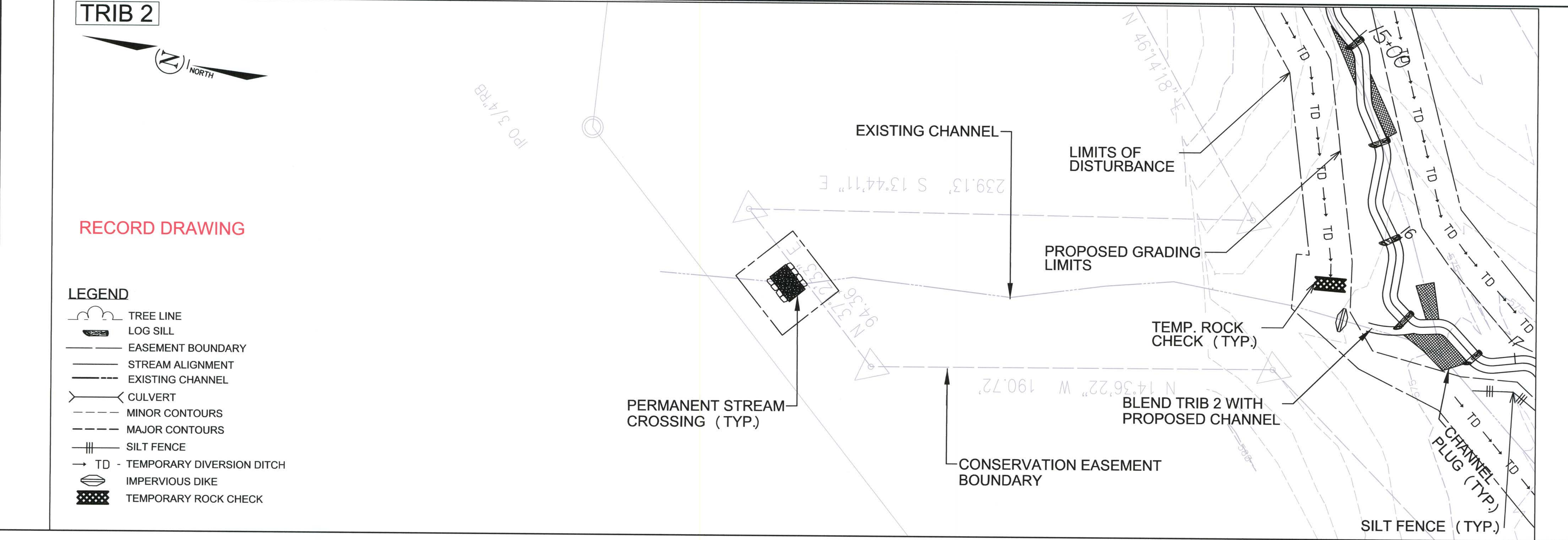
TRIB 2



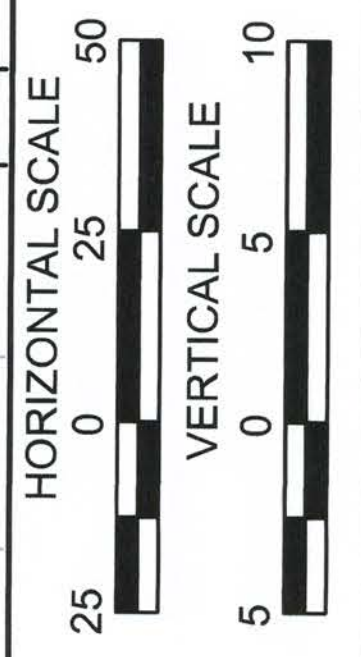
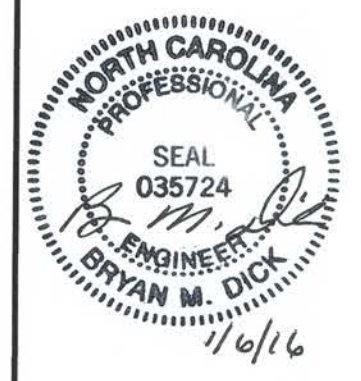
RECORD DRAWING

LEGEND

- TREE LINE
- LOG SILL
- EASEMENT BOUNDARY
- STREAM ALIGNMENT
- EXISTING CHANNEL
- CULVERT
- MINOR CONTOURS
- MAJOR CONTOURS
- SILTY FENCE
- TD - TEMPORARY DIVERSION DITCH
- IMPERVIOUS DIKE
- TEMPORARY ROCK CHECK

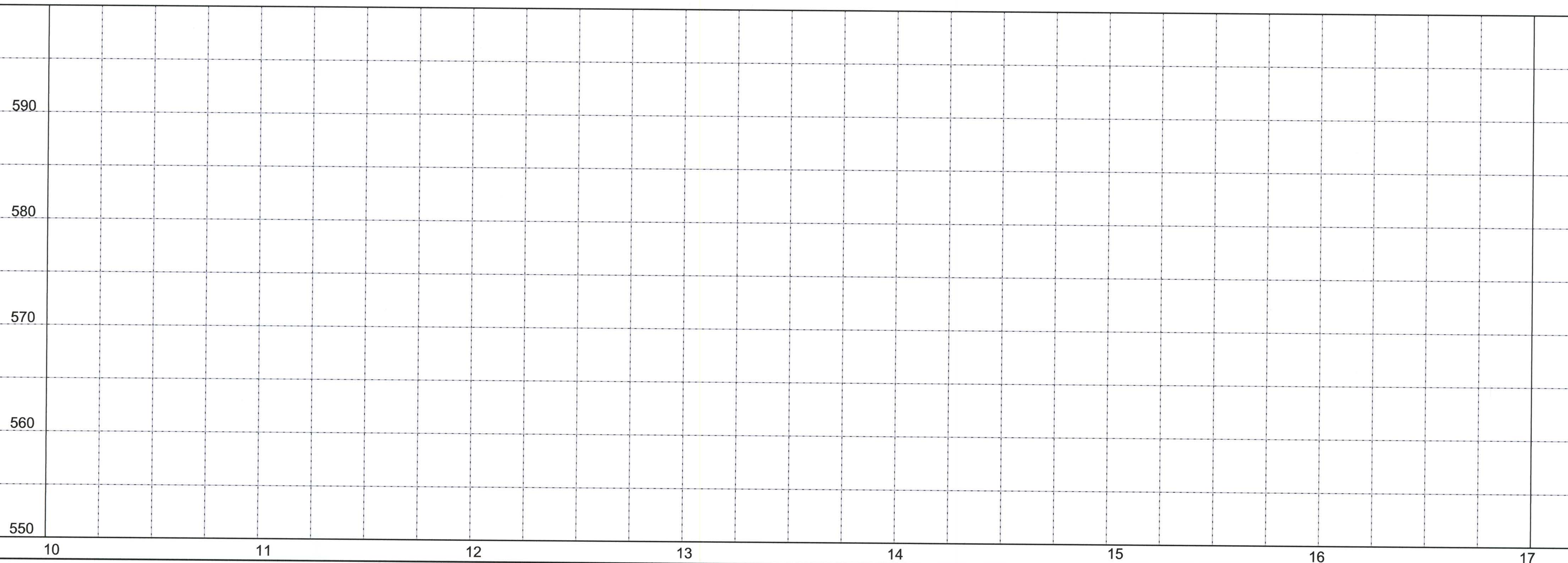


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 TIME: 4:01:17 PM

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TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
PLAN VIEW, GRADING, AND DRAINAGE

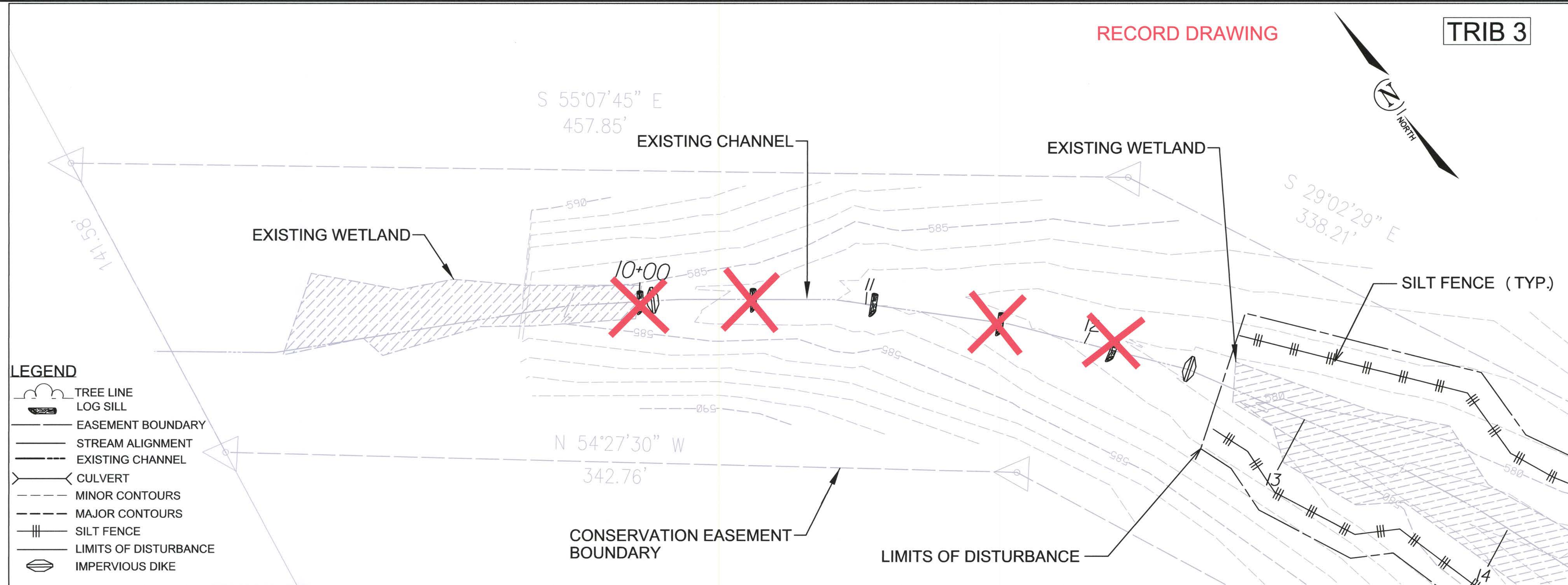


701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
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DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-4
DRAWN BY	STP
CHKD BY	BMD

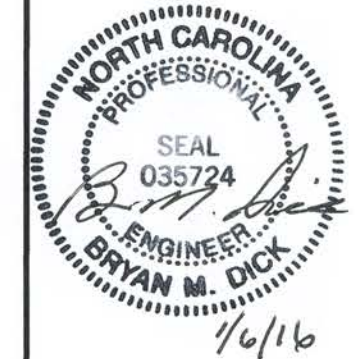
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TRIB 3

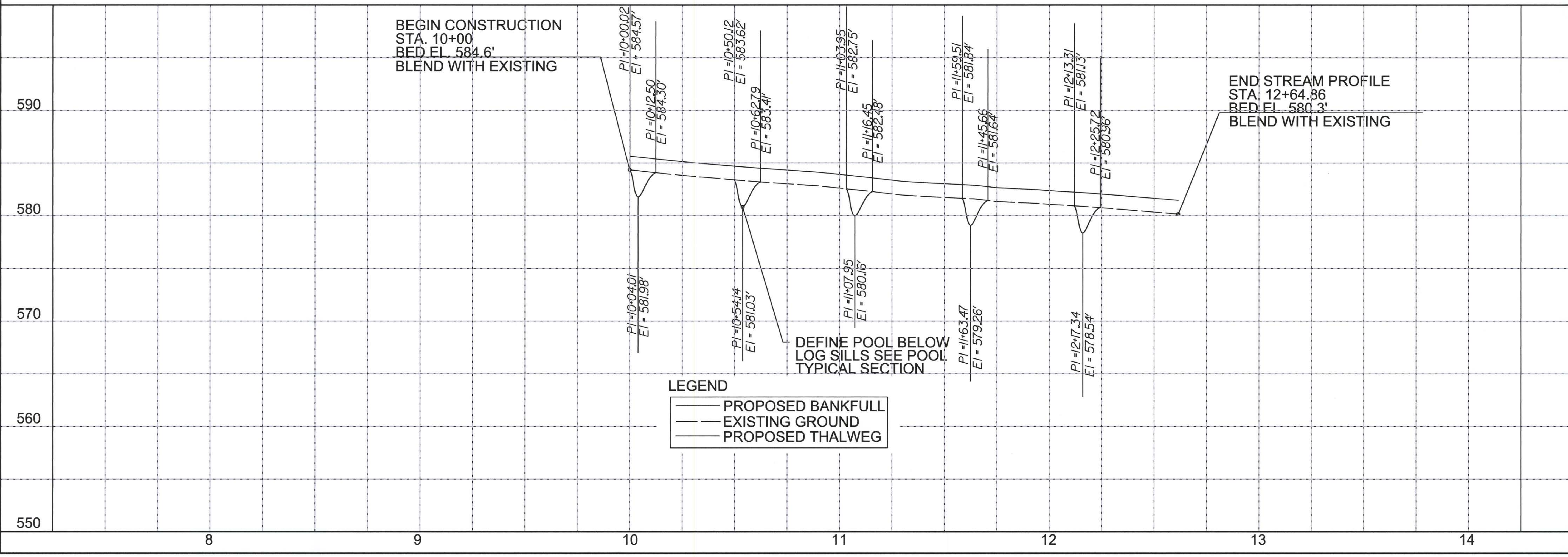


- LEGEND**
- TREE LINE
 - LOG SILL
 - EASEMENT BOUNDARY
 - STREAM ALIGNMENT
 - EXISTING CHANNEL
 - CULVERT
 - MINOR CONTOURS
 - MAJOR CONTOURS
 - SILT FENCE
 - LIMITS OF DISTURBANCE
 - IMPERVIOUS DIKE

MATCHLINE SHEET C-6



DATE: 3/5/2014
 TIME: 4:01:17 PM
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- LEGEND**
- PROPOSED BANKFULL
 - EXISTING GROUND
 - PROPOSED THALWEG

TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION

PLAN VIEW, GRADING, AND DRAINAGE

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DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-5
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CHKD BY	BMD

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RECORD DRAWING

TRIB 3



MATCHLINE SHEET C-7

BEGIN TRIB 3 STREAM CONSTRUCTION AT STA. 15+44 BLEND WITH EXISTING

LEVEL SPREADER (TYP.)

LOG SILL (TYP.)

LIMITS OF DISTURBANCE

IMPERVIOUS DIKE (TYP.)

LIMITS OF DISTURBANCE

SILT FENCE (TYP.)

LEVEL SPREADER (TYP.) AT AREA OF RILL EROSION

CONSERVATION EASEMENT BOUNDARY

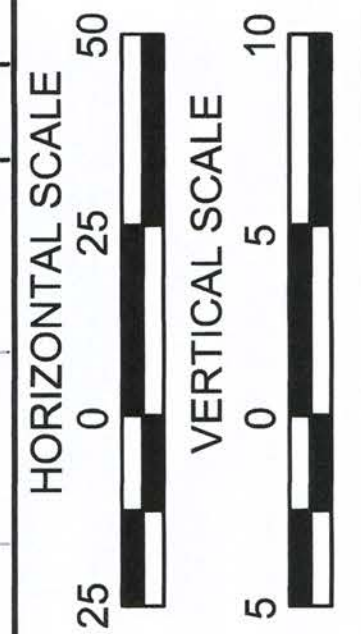
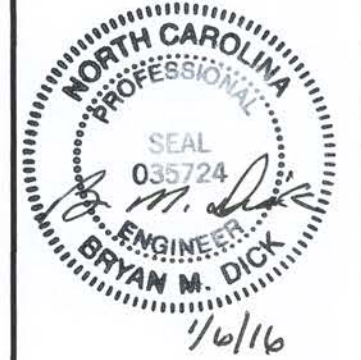
LEGEND

- TREE LINE
- LOG SILL
- EASEMENT BOUNDARY
- STREAM ALIGNMENT
- EXISTING CHANNEL
- SILT FENCE
- LEVEL SPREADER (TYP.)
- IMPERVIOUS DIKE
- CULVERT
- MINOR CONTOURS
- MAJOR CONTOURS
- LIMITS OF DISTURBANCE

MATCHLINE SHEET C-5

N 27°42'57" W
314.39'

N 11°47'41" W
602.10'

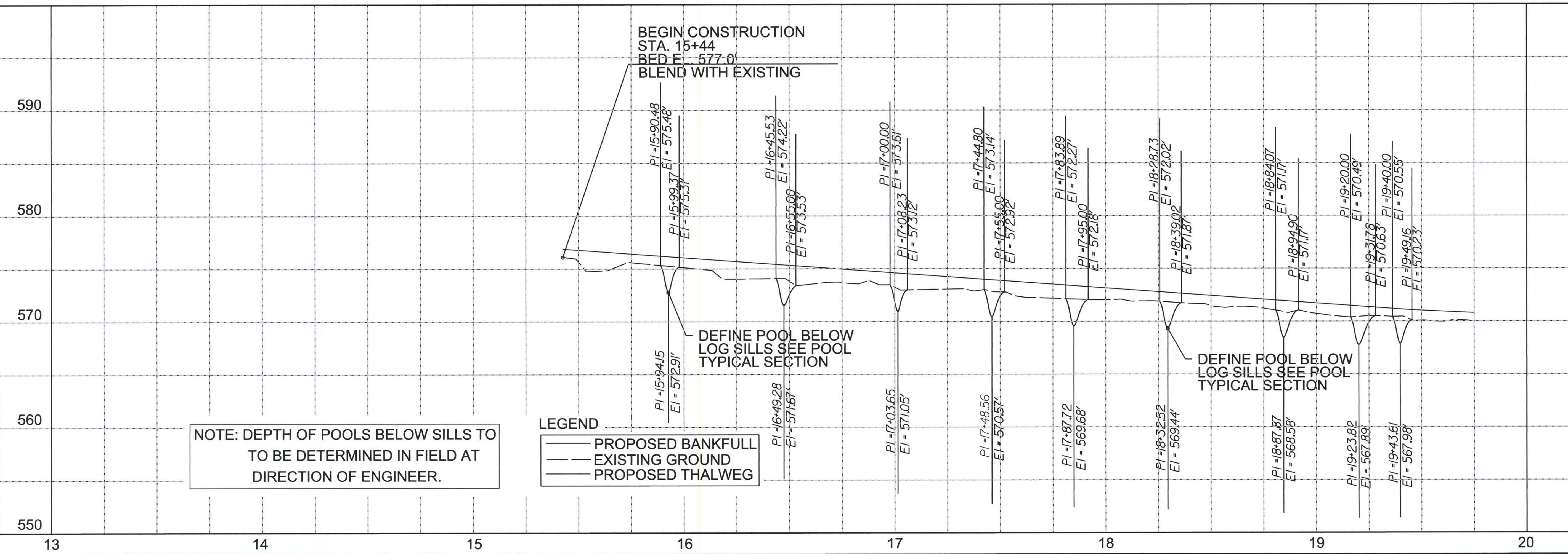


PLAN VIEW, GRADING, AND DRAINAGE

DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-6
DRAWN BY	STP
CHKD BY	BMD

DATE: 3/5/2014
TIME: 4:04:16 PM

USER: BTrass
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NOTE: DEPTH OF POOLS BELOW SILLS TO BE DETERMINED IN FIELD AT DIRECTION OF ENGINEER.

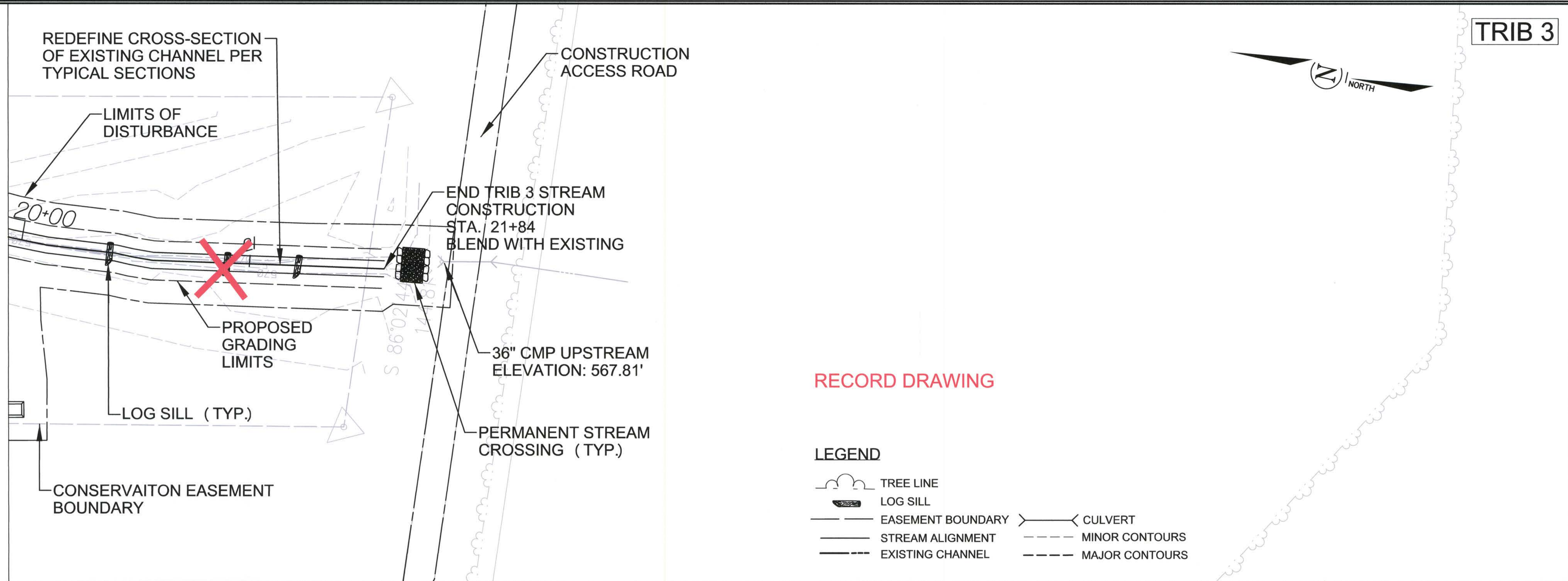
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919-854-6200 919-854-6269 (fax)

TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION

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 TIME: 4:01:16 PM

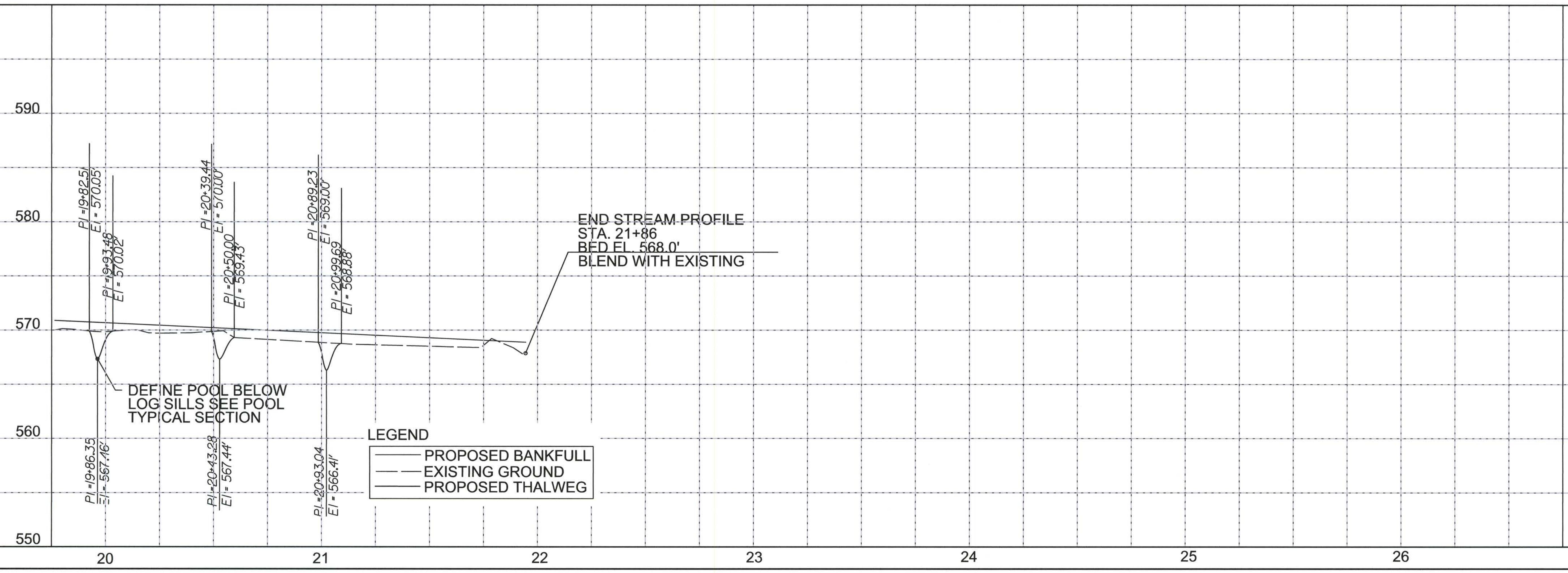
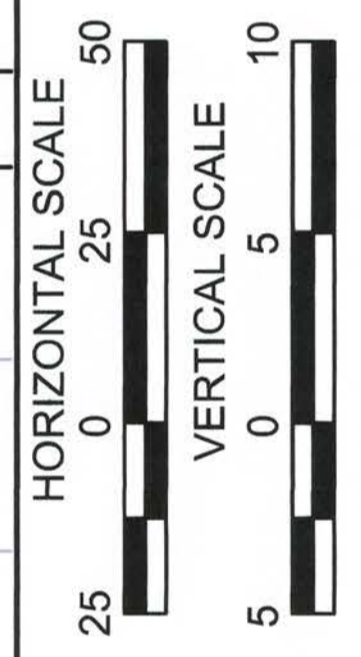
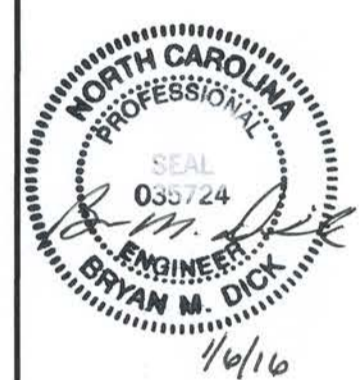
MATCHLINE SHEET C-6



RECORD DRAWING

LEGEND

- TREE LINE
- LOG SILL
- EASEMENT BOUNDARY
- STREAM ALIGNMENT
- EXISTING CHANNEL
- CULVERT
- MINOR CONTOURS
- MAJOR CONTOURS



TRIBUTARIES OF WICKER BRANCH
 STREAM RESTORATION
 PLAN VIEW, GRADING, AND DRAINAGE



DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-7
DRAWN BY	STP
CHKD BY	BMD

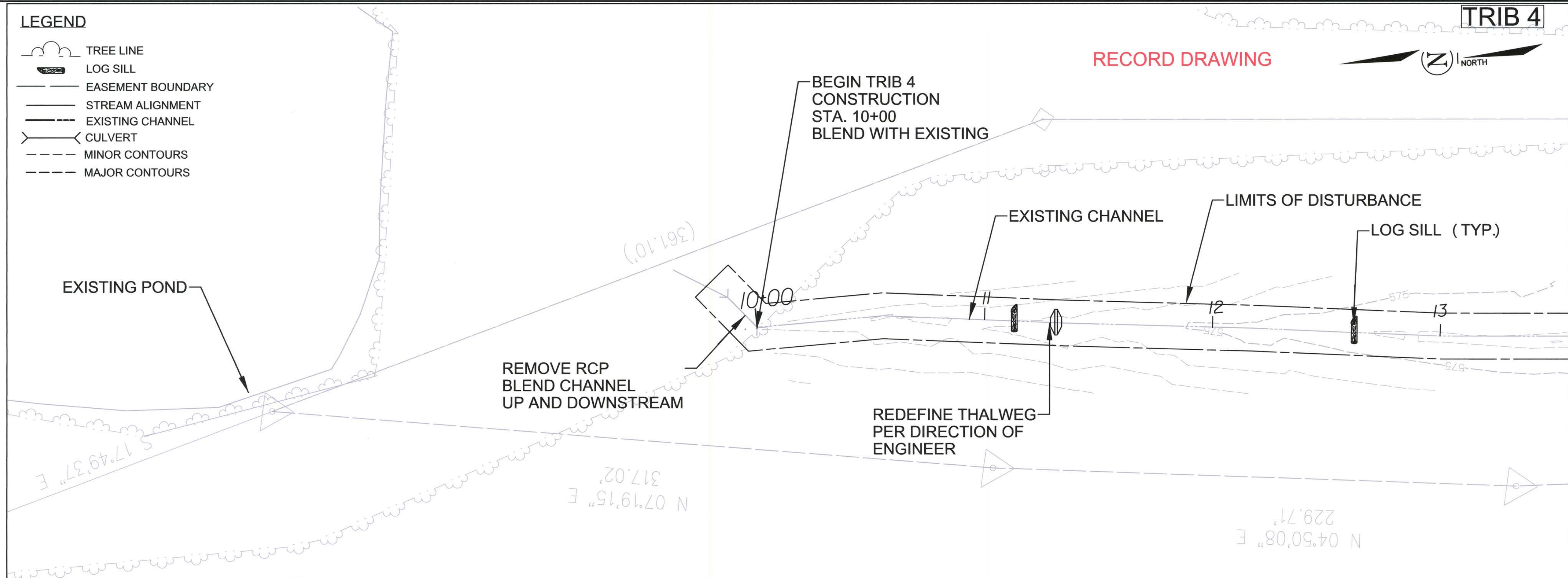
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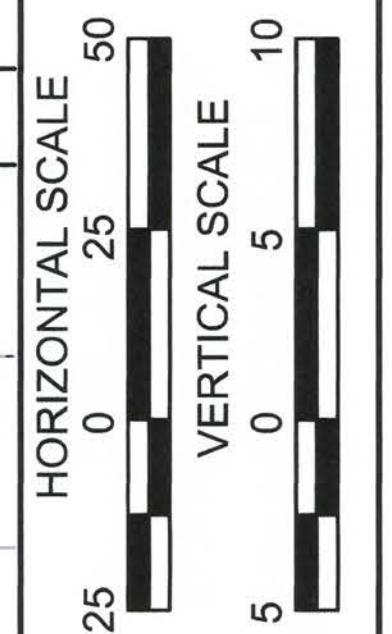
TRIB 4

MATCHLINE SHEET C-9

- LEGEND**
- TREE LINE
 - LOG SILL
 - EASEMENT BOUNDARY
 - STREAM ALIGNMENT
 - EXISTING CHANNEL
 - CULVERT
 - MINOR CONTOURS
 - MAJOR CONTOURS

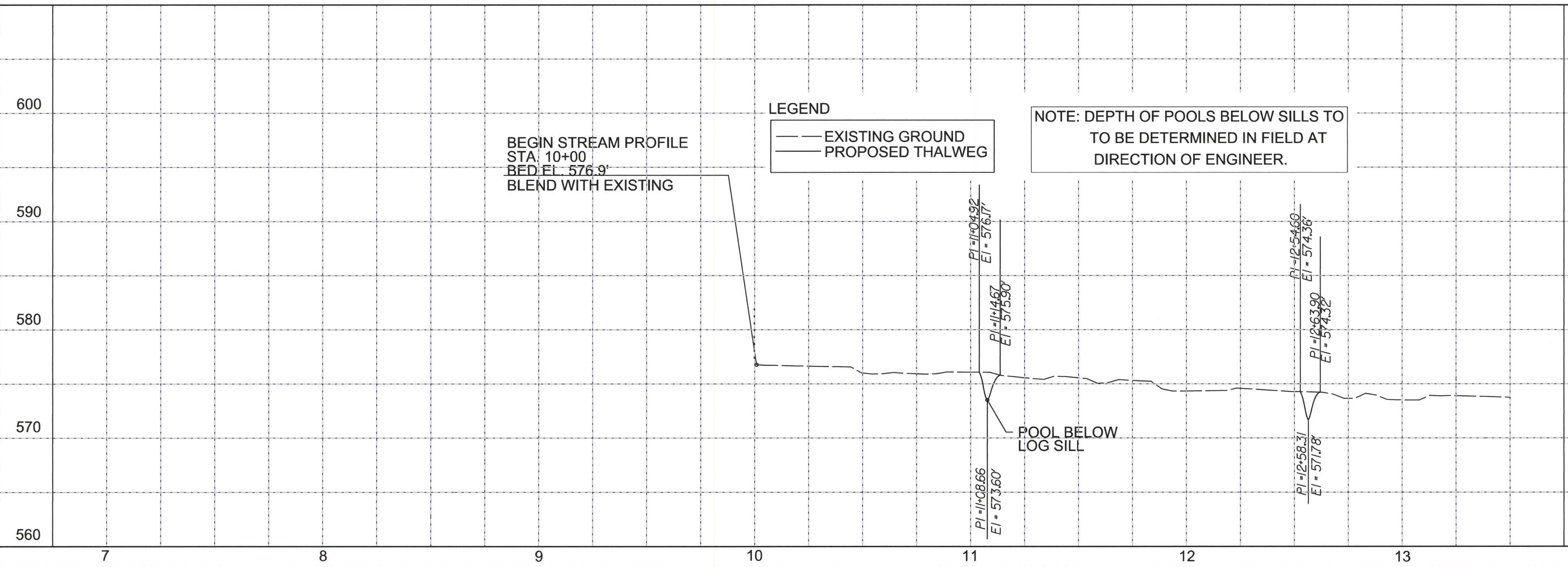


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DATE: 3/5/2014
TIME: 4:01:15 PM

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TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION

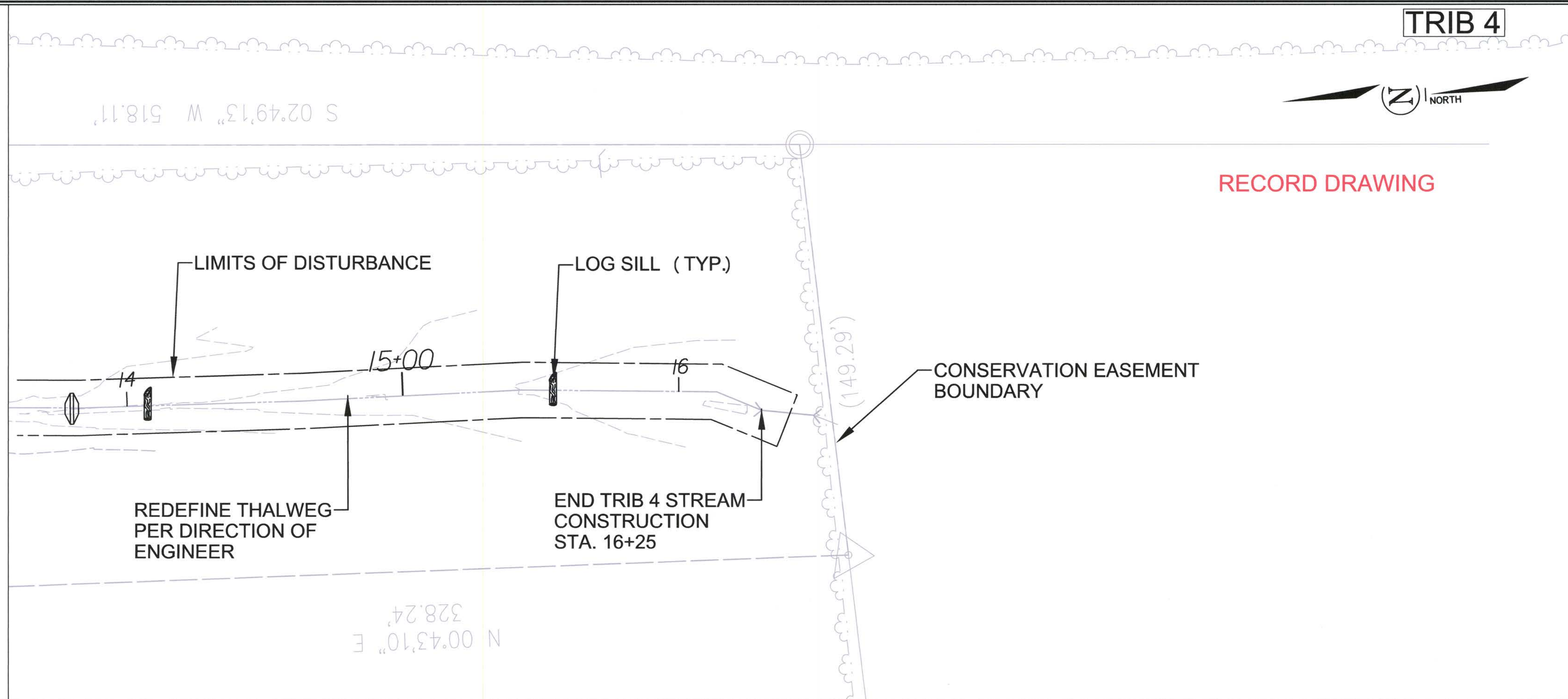
AECOM
701 CORPORATE CENTER DRIVE, SUITE 400, RALEIGH, NC 27607
919.844.4200 919.844.4201 Fax

DATE: 3/5/2014
PROJECT NO: 60220942
FILENAME:
SHEET NO: C-8
DRAWN BY: STP
CHKD BY: BMD

LEGEND

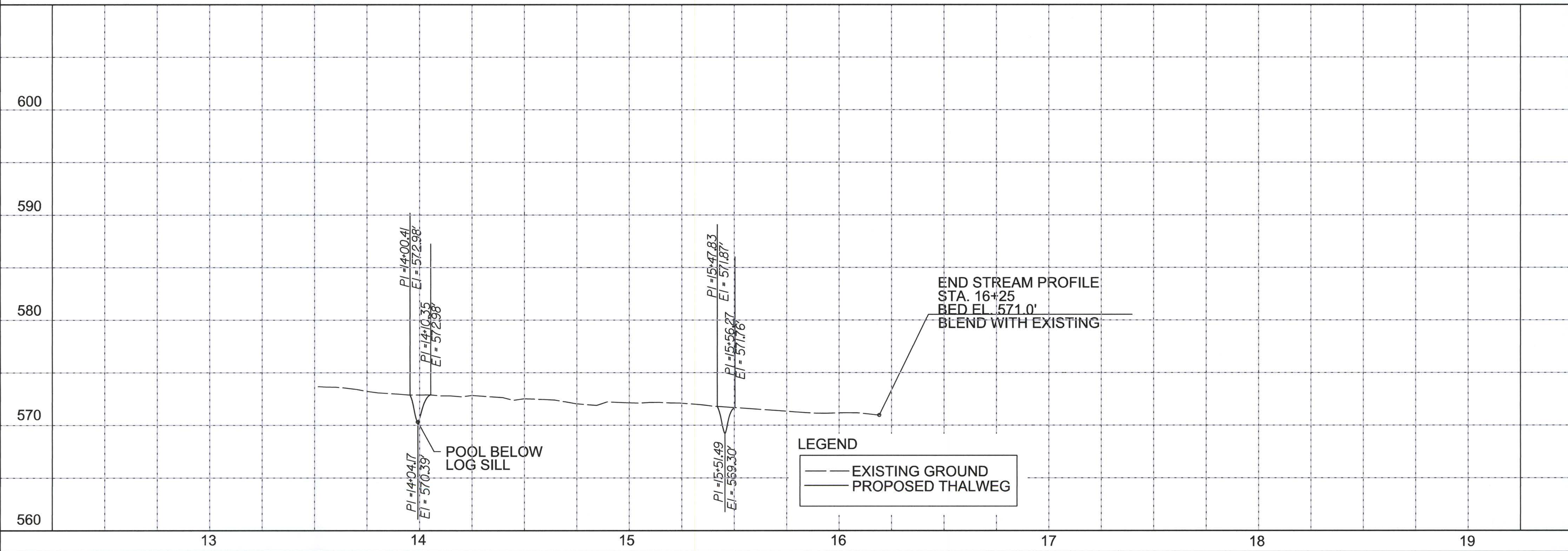
-  TREE LINE
-  LOG SILL
-  EASEMENT BOUNDARY
-  STREAM ALIGNMENT
-  EXISTING CHANNEL
-  PERMANENT STREAM CROSSING
-  CULVERT
-  MINOR CONTOURS
-  MAJOR CONTOURS

MATCHLINE SHEET C-8

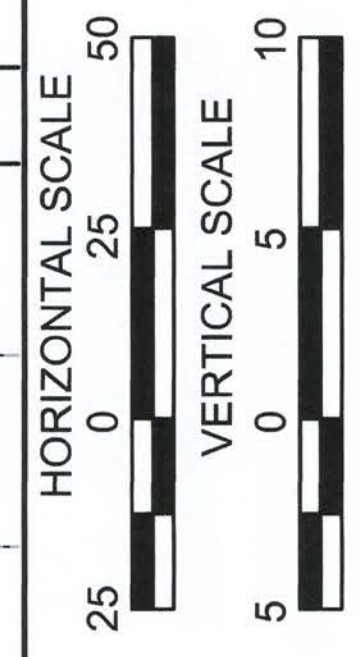
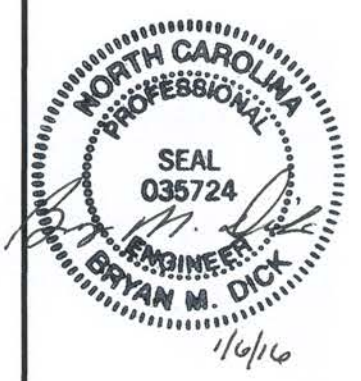


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TRIBUTARIES OF WICKER BRANCH
STREAM RESTORATION
PLAN VIEW, GRADING, AND DRAINAGE

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DATE	3/5/2014
PROJECT NO	60220942
FILENAME	
SHEET NO	C-9
DRAWN BY	STP
CHKD BY	BMD