STATE		SHEET NO.	TOTAL SHEETS
N.C.	ADKIN BRANCH	1	13

ADKIN BRANCH RECORD DRAWINGS STREAM RESTORATION

LOCATION: KINSTON (LENOIR COUNTY), NORTH CAROLINA
LAT: 35°15'42.5" N LONG: 77°33'55.6" W

RECORD DRAWINGS

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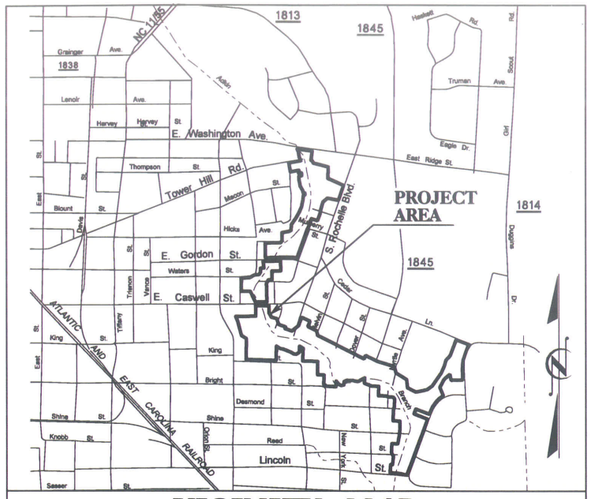
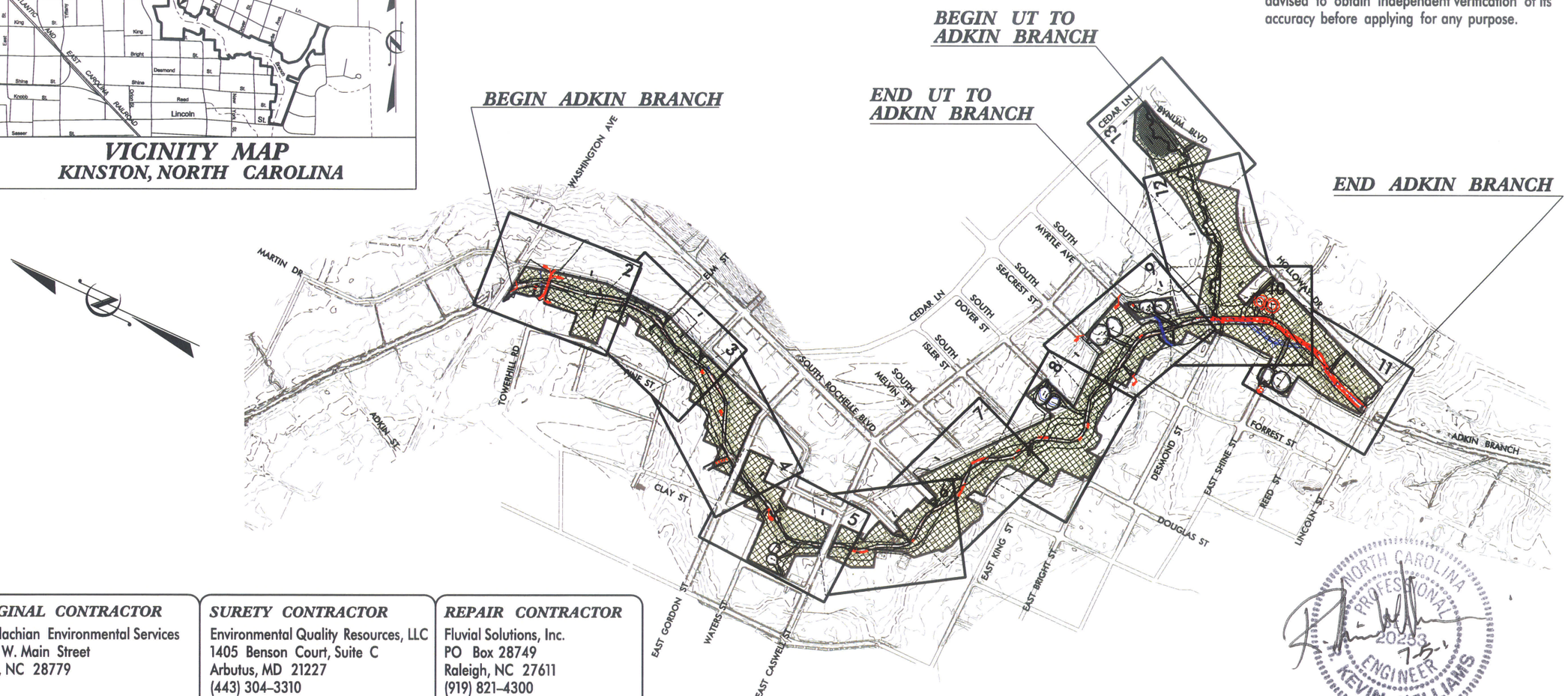


VICINITY MAP
KINSTON, NORTH CAROLINA



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20233 R. KEVIN WILLIAMS

ORIGINAL CONTRACTOR	SURETY CONTRACTOR	REPAIR CONTRACTOR
Appalachian Environmental Services 1165 W. Main Street Slyva, NC 28779	Environmental Quality Resources, LLC 1405 Benson Court, Suite C Arbutus, MD 21227 (443) 304-3310	Fluvial Solutions, Inc. PO Box 28749 Raleigh, NC 27611 (919) 821-4300

GRAPHIC SCALES

25 0 25 50
PLANS

INDEX OF SHEETS

TITLE SHEET.....1
PLAN SHEETS.....2 – 13

DISTURBED AREA = 49.86 Ac.

PROJECT LENGTH

		ADKIN BRANCH	UT TO ADKIN BRANCH
EXISTING STREAM LENGTH	=	8,392 FT	1,200 FT
CONSTRUCTED STREAM LENGTH	=	5,922 FT	1,582 FT

Ecosystem Enhancement PROGRAM

OWNER CONTACT:

KRISTIE CORSON
EEP PROJECT MANAGER

LIN XU
REVIEW COORDINATOR

Prepared In the Office of:
Florence & Hutcheson
CONSULTING ENGINEERS
5121 KINGDOM WAY, SUITE 100
RALEIGH, N.C. 27607
(919) 851-6066
License No: F-0258

R. KEVIN WILLIAMS
PROJECT ENGINEER

RYAN V. SMITH
PROJECT DESIGNER

CONTRACT: ADKIN BRANCH

SCO: 050656101

6/16/2011
R:\Construction\As-Builts\AdkinBranch_AsBuilts_psh_1.dgn
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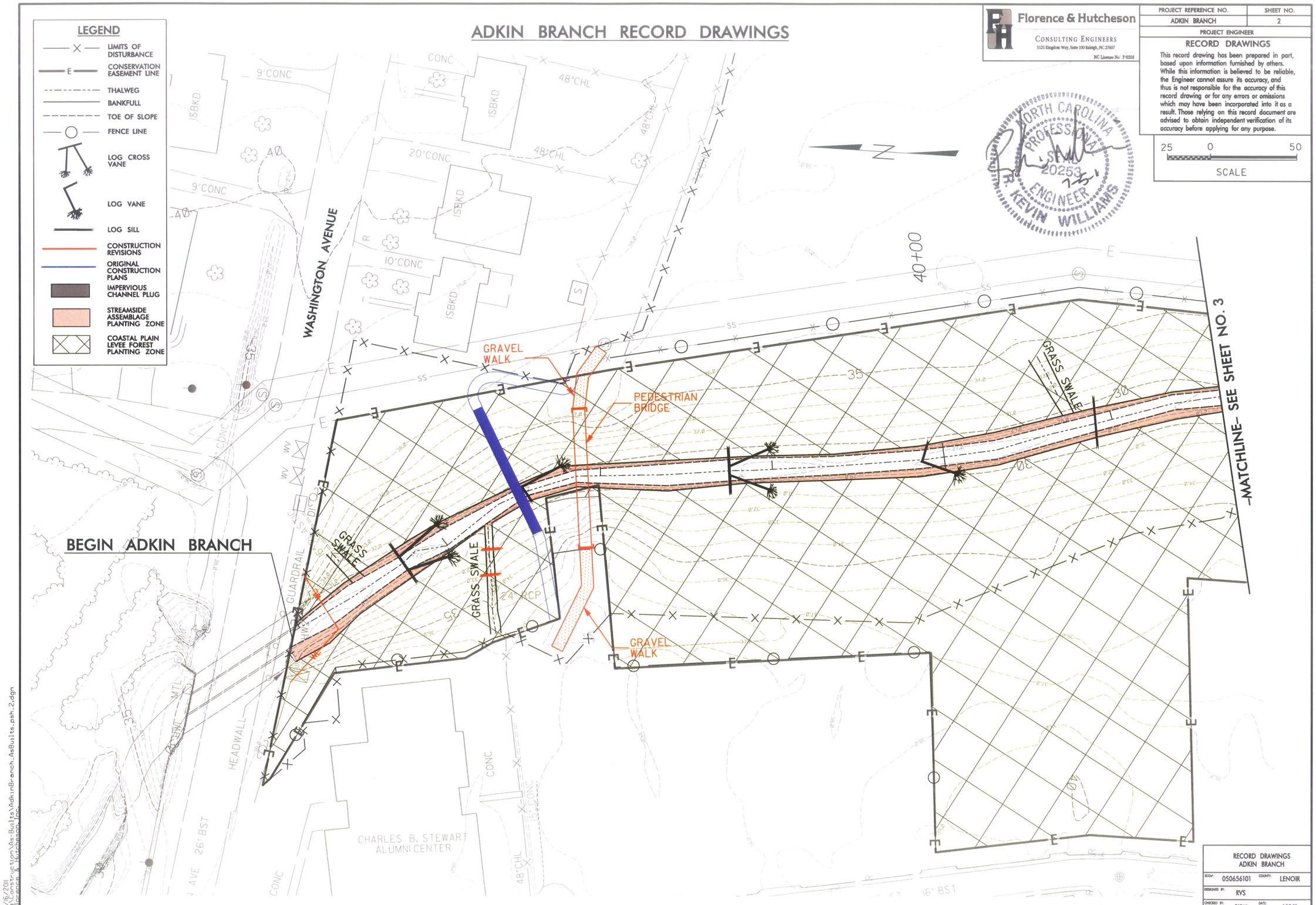
ADKIN BRANCH RECORD DRAWINGS



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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	2
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

NORTH CAROLINA PROFESSIONAL SEAL 20253 ENGINEER R. KEVIN WILLIAMS

RECORD DRAWINGS
ADKIN BRANCH

SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

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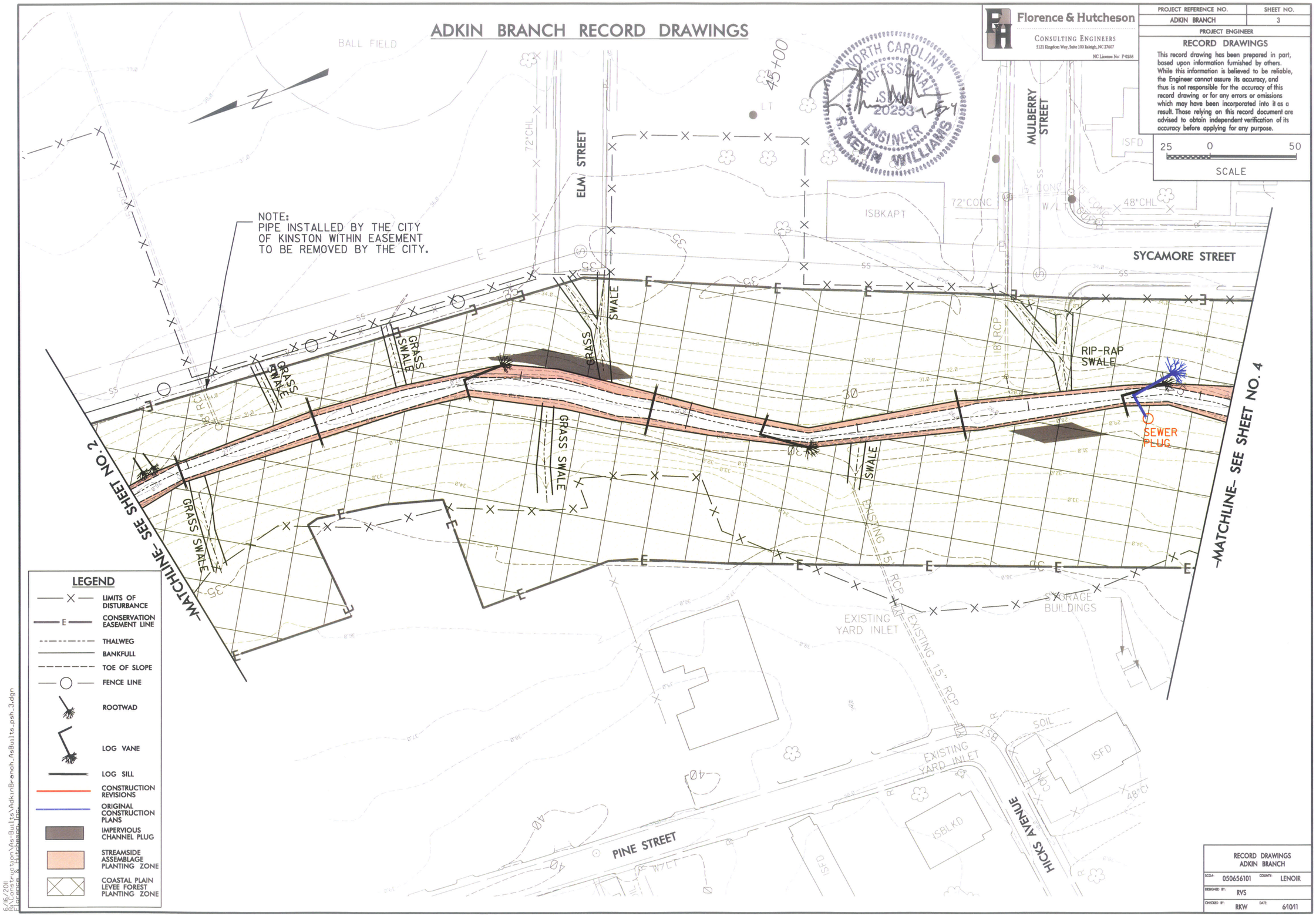
ADKIN BRANCH RECORD DRAWINGS



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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	3
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

RECORD DRAWINGS ADKIN BRANCH	
SCO #: 050656101	COUNTY: LENOIR
DESIGNED BY: RVS	
CHECKED BY: RKW	DATE: 6/10/11

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ADKIN BRANCH RECORD DRAWINGS

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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	4
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- LOG CROSS VANE
- LOG VANE
- LOG SILL
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE

RECORD DRAWINGS ADKIN BRANCH			
SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

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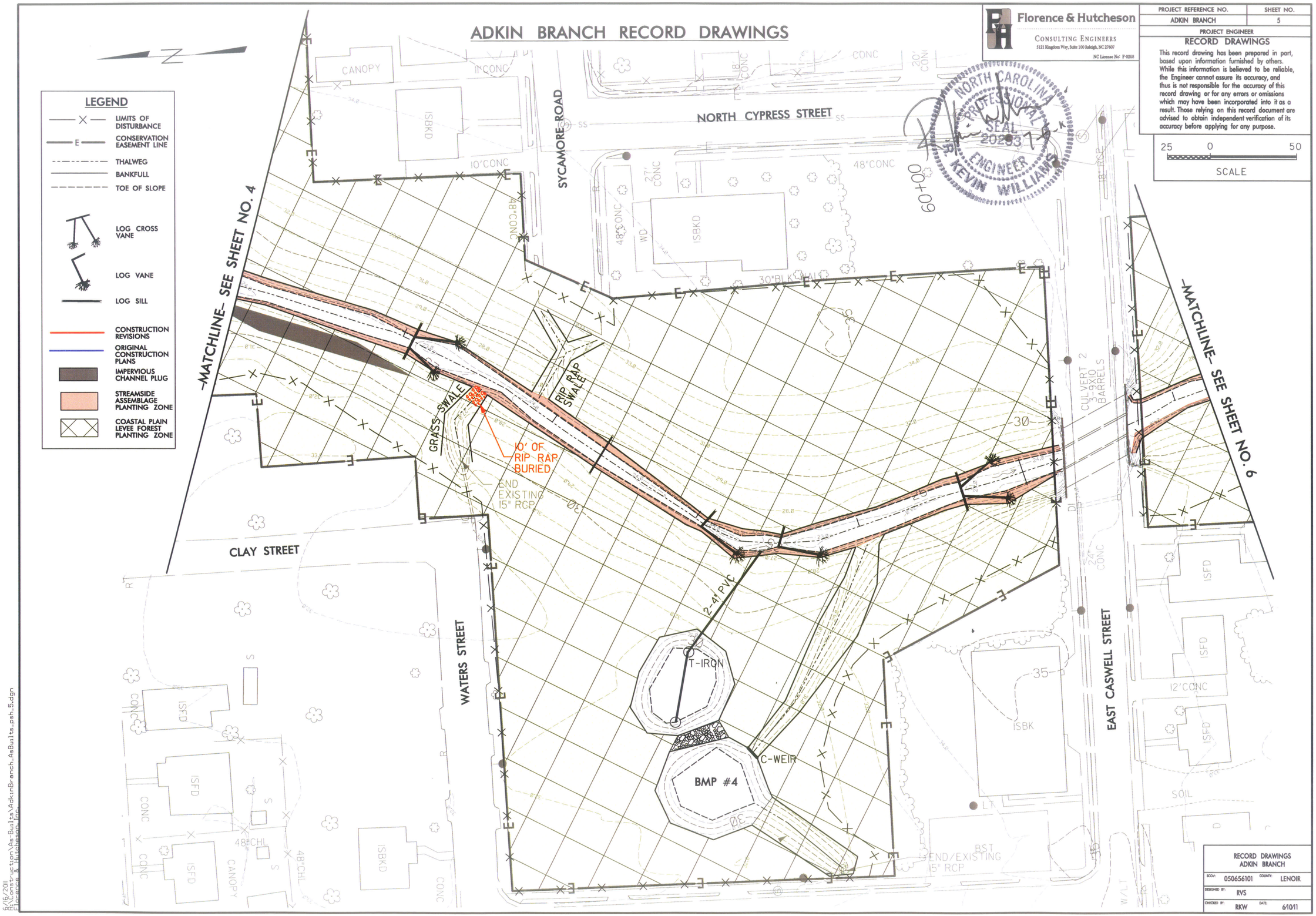
ADKIN BRANCH RECORD DRAWINGS



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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	5
PROJECT ENGINEER	

RECORD DRAWINGS

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RECORD DRAWINGS
ADKIN BRANCH

SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

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ADKIN BRANCH RECORD DRAWINGS

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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	6
PROJECT ENGINEER	

RECORD DRAWINGS

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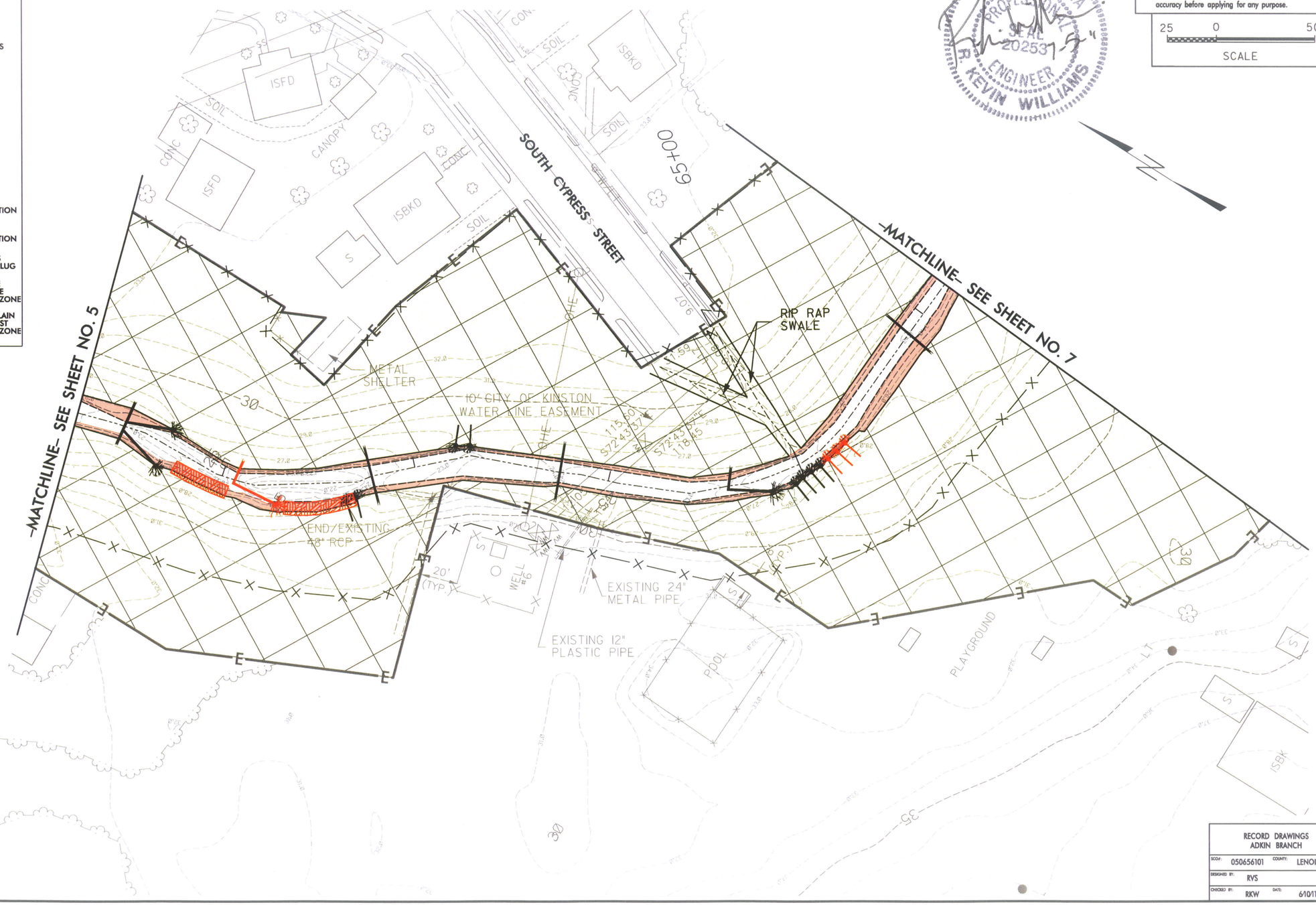
25 0 50
SCALE

NORTH CAROLINA PROFESSIONAL SEAL 202537 ENGINEER KEVIN WILLIAMS

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- ROOTWAD
- LOG CROSS VANE
- LOG VANE
- LOG SILL
- SOIL LIFT
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE



RECORD DRAWINGS ADKIN BRANCH			
SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

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ADKIN BRANCH RECORD DRAWINGS

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25 0 50
SCALE

PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	7
PROJECT ENGINEER	

RECORD DRAWINGS

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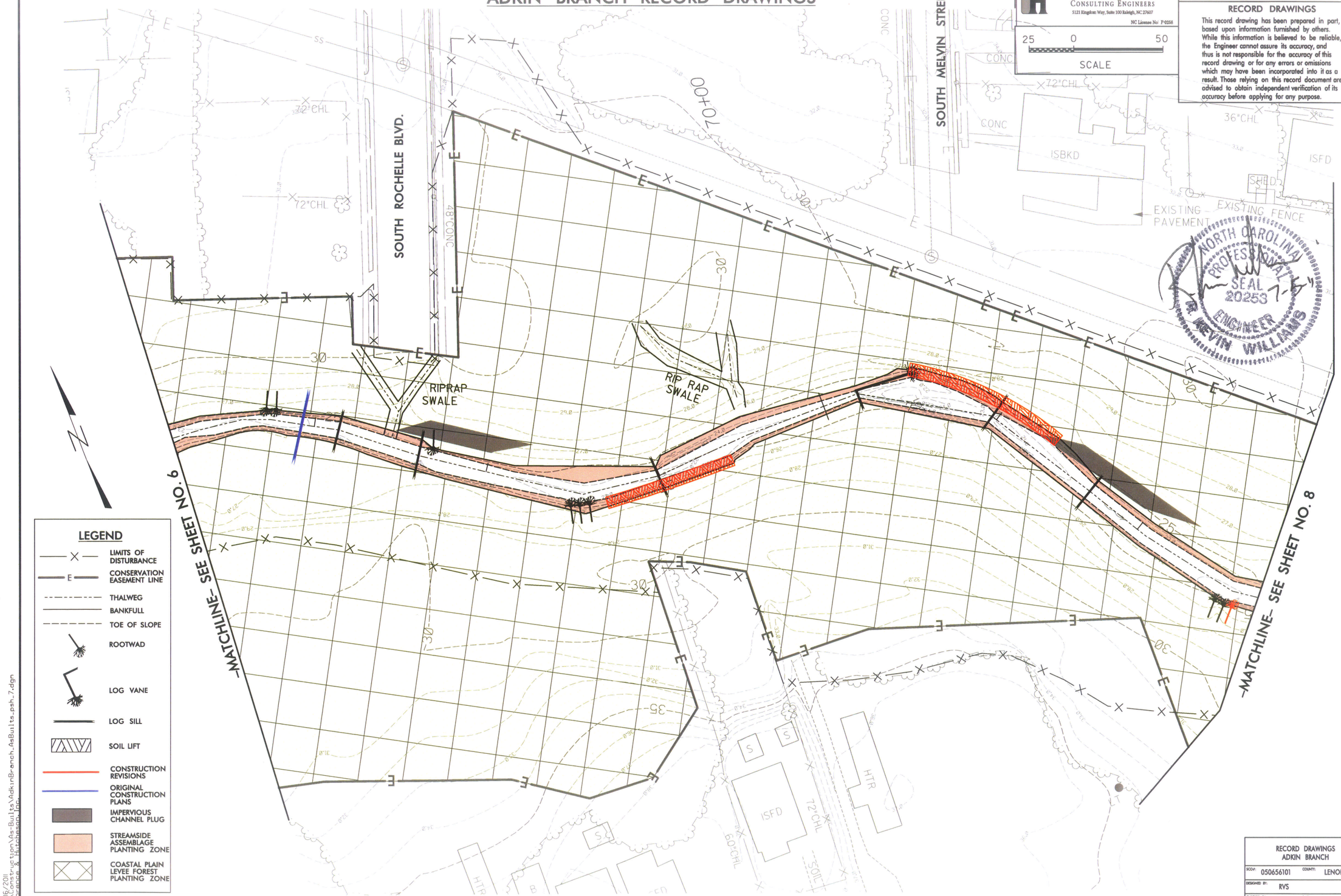

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- ROOTWAD
- LOG VANE
- LOG SILL
- SOIL LIFT
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE

RECORD DRAWINGS
ADKIN BRANCH

SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

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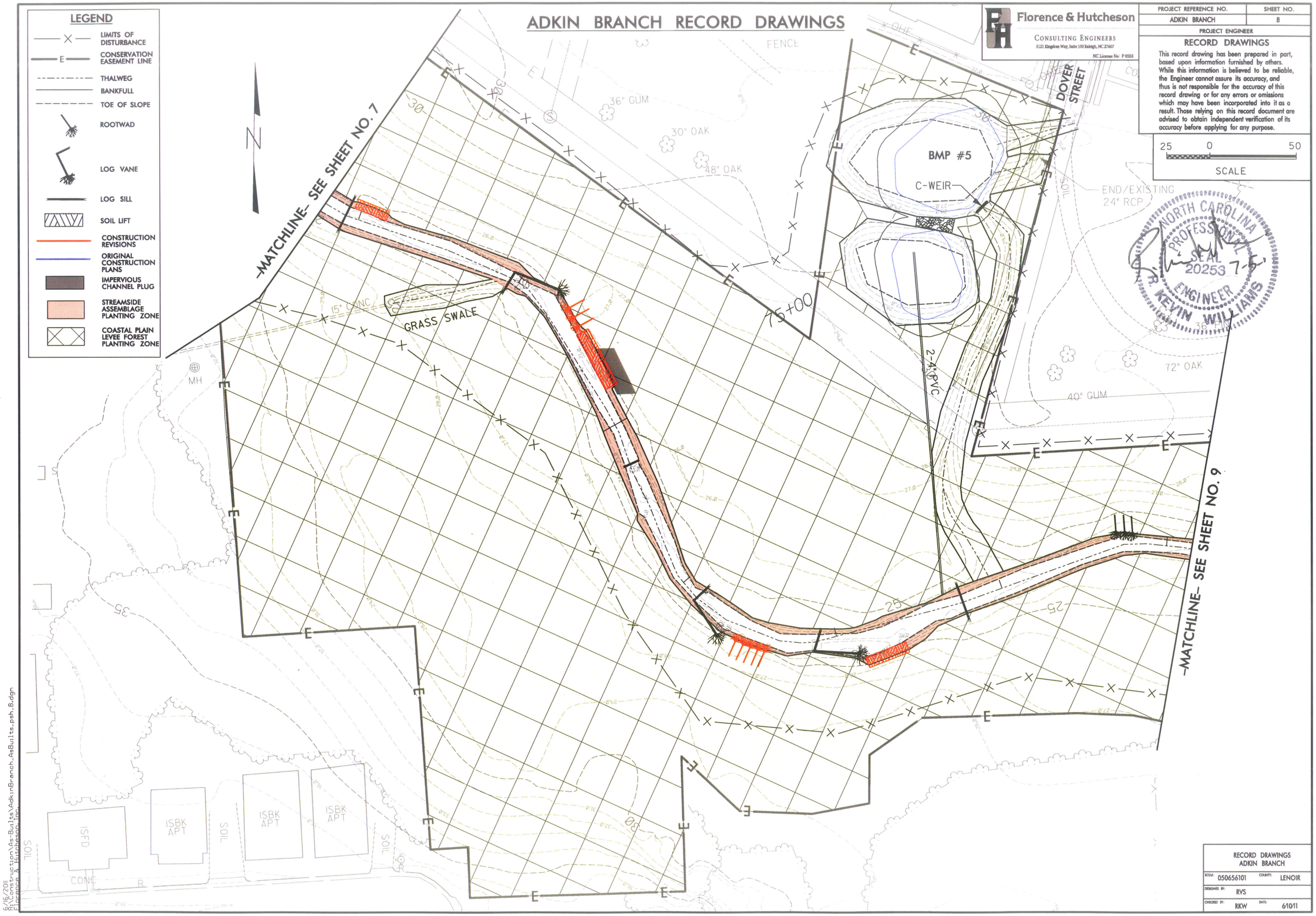
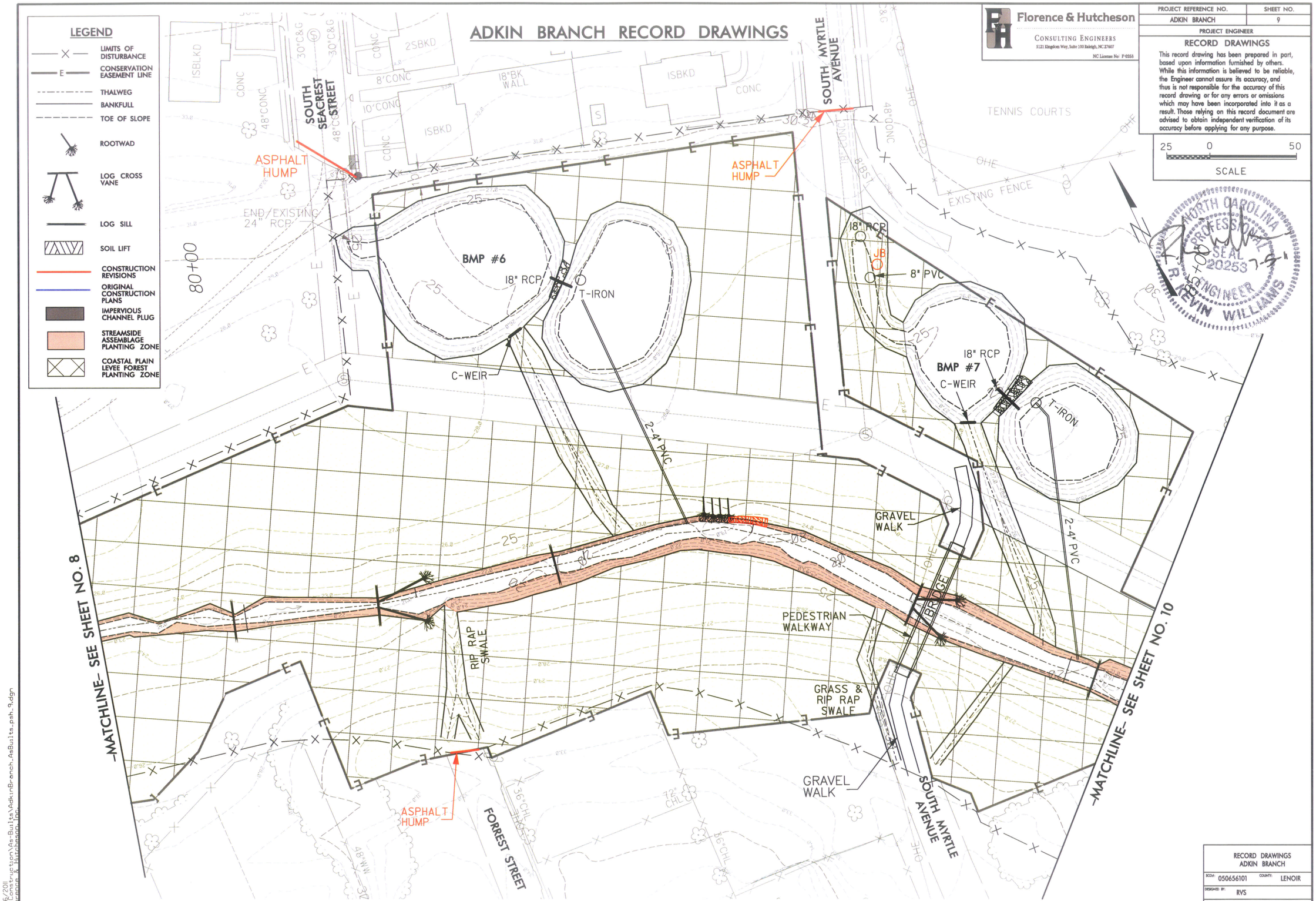
ADKIN BRANCH RECORD DRAWINGS



ADKIN BRANCH RECORD DRAWINGS



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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	9
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

NORTH CAROLINA PROFESSIONAL SEAL 20253 ENGINEER R. KEVIN WILLIAMS

RECORD DRAWINGS ADKIN BRANCH			
SCO#: 050656101		COUNTY: LENOIR	
DESIGNED BY: RVS			
CHECKED BY: RKW		DATE: 6/10/11	

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ADKIN BRANCH RECORD DRAWINGS

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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	10
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- ROOTWAD
- LOG CROSS VANE
- LOG VANE
- LOG SILL
- SOIL LIFT
- FLOODPLAIN INTERCEPTOR (FPI)
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE

RECORD DRAWINGS
ADKIN BRANCH

SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
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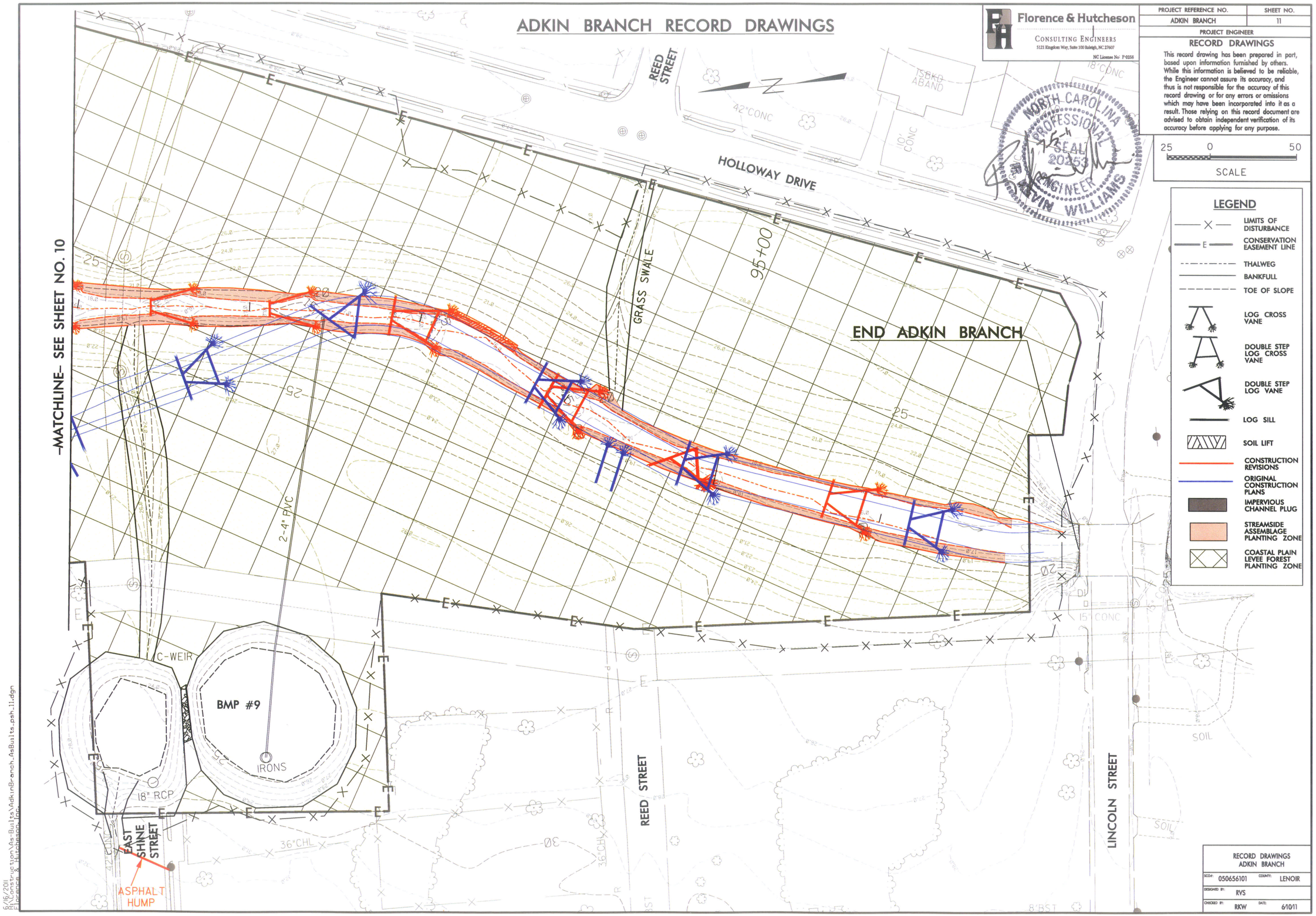
ADKIN BRANCH RECORD DRAWINGS



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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	11
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- LOG CROSS VANE
- DOUBLE STEP LOG CROSS VANE
- DOUBLE STEP LOG VANE
- LOG SILL
- SOIL LIFT
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE

RECORD DRAWINGS
ADKIN BRANCH

SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

ADKIN BRANCH RECORD DRAWINGS

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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	12
PROJECT ENGINEER	

RECORD DRAWINGS

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25 0 50
SCALE

NORTH CAROLINA PROFESSIONAL SEAL 20253 ENGINEER R. KEVIN WILLIAMS
7-6-11

RECORD DRAWINGS ADKIN BRANCH			
SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

6/16/2011
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ADKIN BRANCH RECORD DRAWINGS

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PROJECT REFERENCE NO.	SHEET NO.
ADKIN BRANCH	13
PROJECT ENGINEER	

RECORD DRAWINGS

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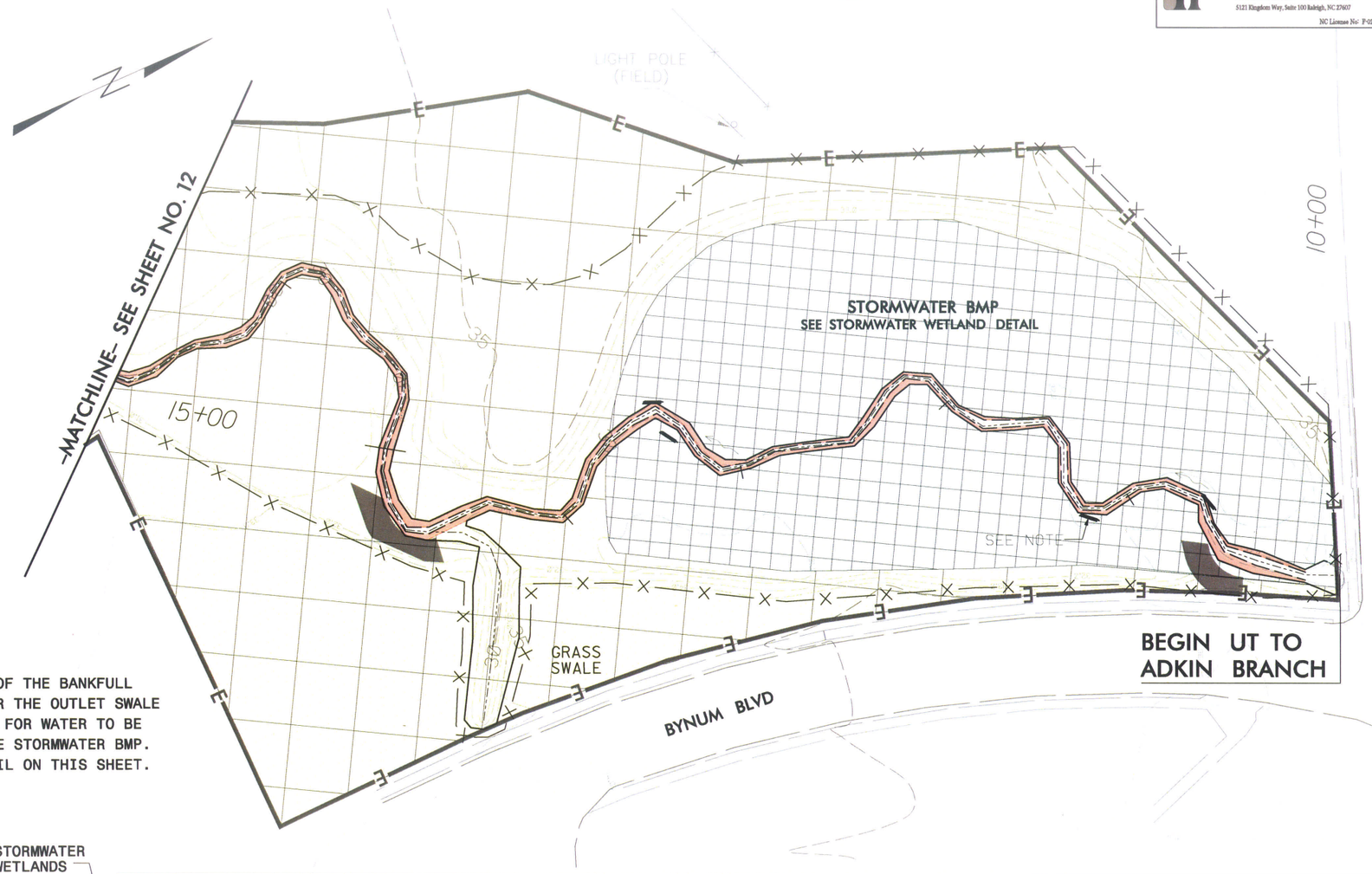
25 0 50
SCALE

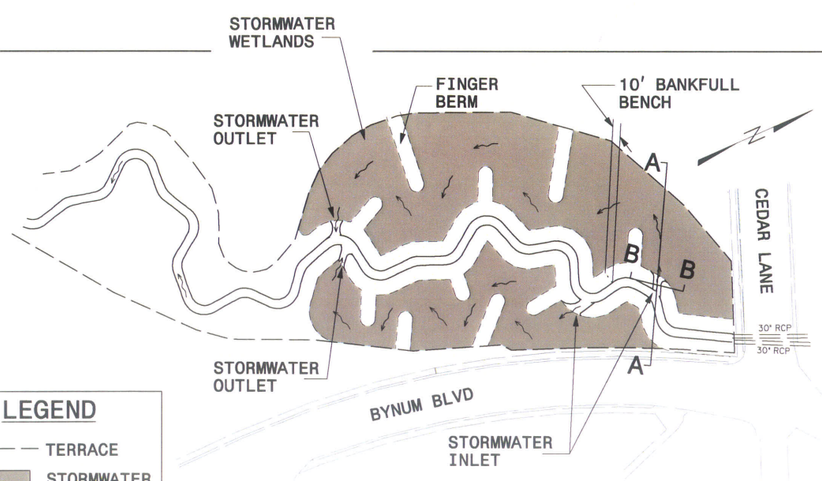
NORTH CAROLINA PROFESSIONAL SEAL 20253 ENGINEER R. KEVIN WILLIAMS

LEGEND

- LIMITS OF DISTURBANCE
- CONSERVATION EASEMENT LINE
- THALWEG
- BANKFULL
- TOE OF SLOPE
- LOG SILL
- CONSTRUCTION REVISIONS
- ORIGINAL CONSTRUCTION PLANS
- IMPERVIOUS CHANNEL PLUG
- STREAMSIDE ASSEMBLAGE PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE
- COASTAL PLAIN LEVEE FOREST PLANTING ZONE



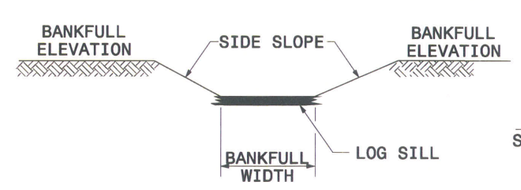
NOTE:
LOG SILLS PLACED OUTSIDE OF THE BANKFULL CHANNEL MAINTIAN GRADE FOR THE OUTLET SWALE AT HALF BANKFULL TO ALLOW FOR WATER TO BE DISTRIBUTED THROUGHOUT THE STORMWATER BMP. SEE THE CONSTRUCTION DETAIL ON THIS SHEET.



LEGEND

- TERRACE
- STORMWATER WETLAND

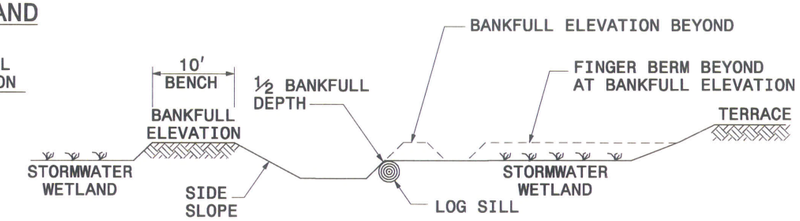
STORMWATER WETLAND



STORMWATER INLET/OUTLET CROSS-SECTION

SECTION B-B

NOTES:
1. INVERT SET AT ½ BANKFULL DEPTH.
2. LOG SILL SET AT INVERT TO PROTECT FROM SCOUR.
3. BASE WIDTH SHALL BE ½ BANKFULL CHANNEL BASE WIDTH. SIDE SLOPES SHALL BE BUILT AT A 3:1 SLOPE.



STORMWATER INLET/OUTLET PROFILE

SECTION A-A

NOTES:
1. STORMWATER WETLAND'S ELEVATION SHALL BE SET AT ½ THE BANKFULL DEPTH UP FROM CHANNEL INVERT.

RECORD DRAWINGS ADKIN BRANCH			
SCO#: 050656101	COUNTY: LENOIR		
DESIGNED BY: RVS			
CHECKED BY: RKW	DATE: 6/10/11		

6/17/2011
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