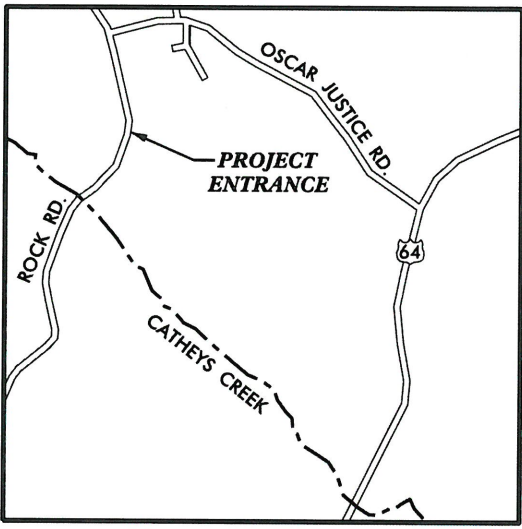


STATE	DMS PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
N.C.	96920	1	5

REVISIONS	

KCI JOB# : 20157877

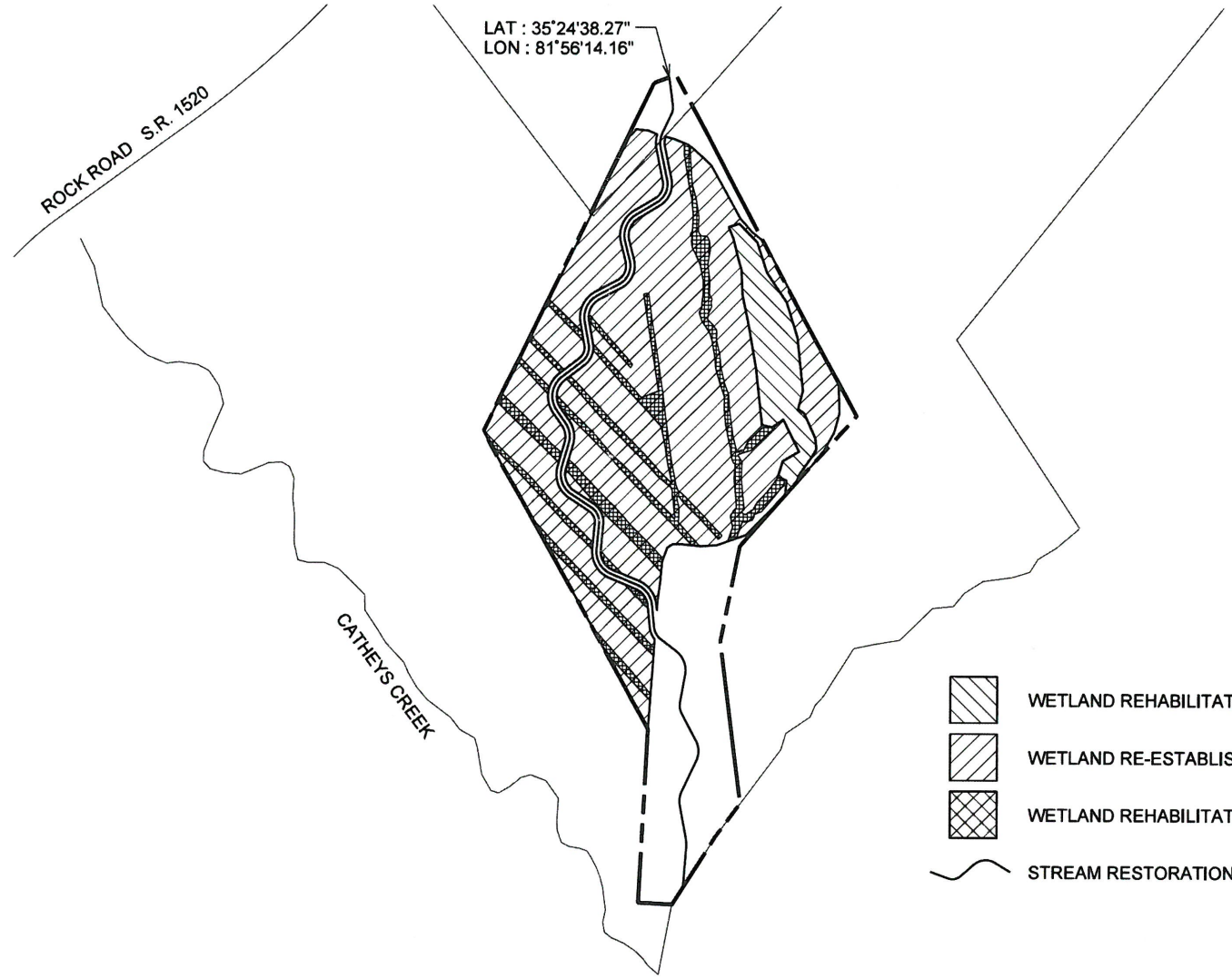


VICINITY MAP
NOT TO SCALE

NCDEQ DIVISION OF MITIGATION SERVICES

SANDY BRIDGE FARM
STREAM AND RIPARIAN WETLAND SITE

RUTHERFORD COUNTY, NORTH CAROLINA



INDEX OF SHEETS

- 1 TITLE SHEET
- 2 GENERAL NOTES & PROJECT LEGEND
- 3 SITE PLAN
- 4 TYPICAL CROSS-SECTION
- 5 PLANTING PLAN



AS-BUILT PLANS

NOTE:
NO MAJOR CHANGES WERE MADE TO
THE ORIGINAL CONSTRUCTION PLANS.

DIRECTIONS TO SITE

From Raleigh, follow I-40 West for approximately 192 miles to exit 103, US-64 West/Burkemon Ave. Follow US-64 West for about 28 miles, then take a right onto Oscar Justice Road. Follow to Rock Road and take a left. Site entrance will be just up on left at 1362 Rock Road.

PROJECT DATA

	WETLAND RE-ESTAB. (1:1)	WETLAND REHAB. (1:1)	WETLAND REHAB. (1.5:1)	STREAM RESTORATION (1:1)
SANDY BRIDGE FARM CREDITS	5.56 AC./ 5.56 CR.	0.79 AC./ 0.79 CR.	0.59 AC./ 0.39 CR.	1626 FT./ 1626 CR.

Prepared In the Office of:

KCI
ASSOCIATES OF NC
ENGINEERS • PLANNERS • ECOLOGISTS
4505 FALLS OF NEUSE ROAD
SUITE 400
RALEIGH, NC 27609

Prepared for:

HARRY TSOMIDES
DMS PROJECT MANAGER

LIN XU
DMS REVIEW COORDINATOR

Prepared by:

GARY M. MRYNCA, PE
PROJECT ENGINEER

ALEX FRENCH
PROJECT DESIGNER

PROJECT ENGINEER

03.29.17

SEAL
32733

GARY MICHAEL MRYNCA

SIGNATURE:

P.E.

GENERAL NOTES:

THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT TRACTS. THE PARENT TRACT BOUNDARIES ADJACENT TO THIS EASEMENT ARE NOT CHANGED BY THIS PLAT.

DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.

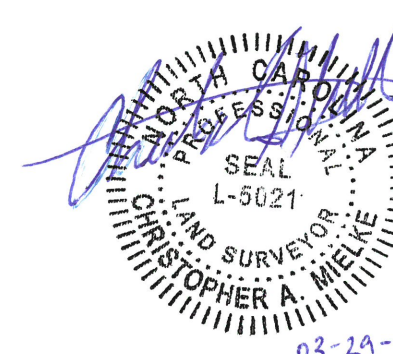
NO UNDERGROUND UTILITY LOCATING PERFORMED DURING THE COURSE OF THIS SURVEY.

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV
KCI#1	617465.59	1125031.23	882.58
KCI#2	617078.31	1125149.33	870.20
KCI#3	616313.52	1125176.28	866.26
KCI#4	616804.73	1125047.72	866.49
KCI#5	615954.68	1124912.81	864.75
KCI#6	617921.74	1125732.32	940.94
KCI#7	617874.25	1125977.49	946.96
KCI#8	616669.64	1125416.59	873.88



PROJECT ENGINEER



PROJECT SURVEYOR

NO.	DATE	DESCRIPTION	REVISIONS

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SANDY BRIDGE FARM
STREAM AND RIPARIAN WETLAND SITE
RUTHERFORD COUNTY, NORTH CAROLINA

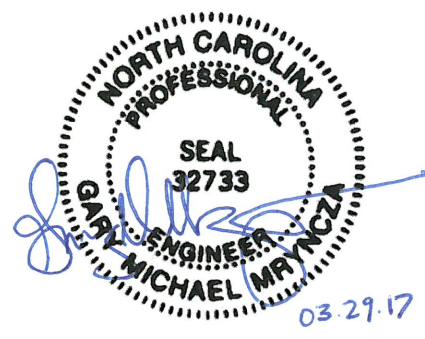
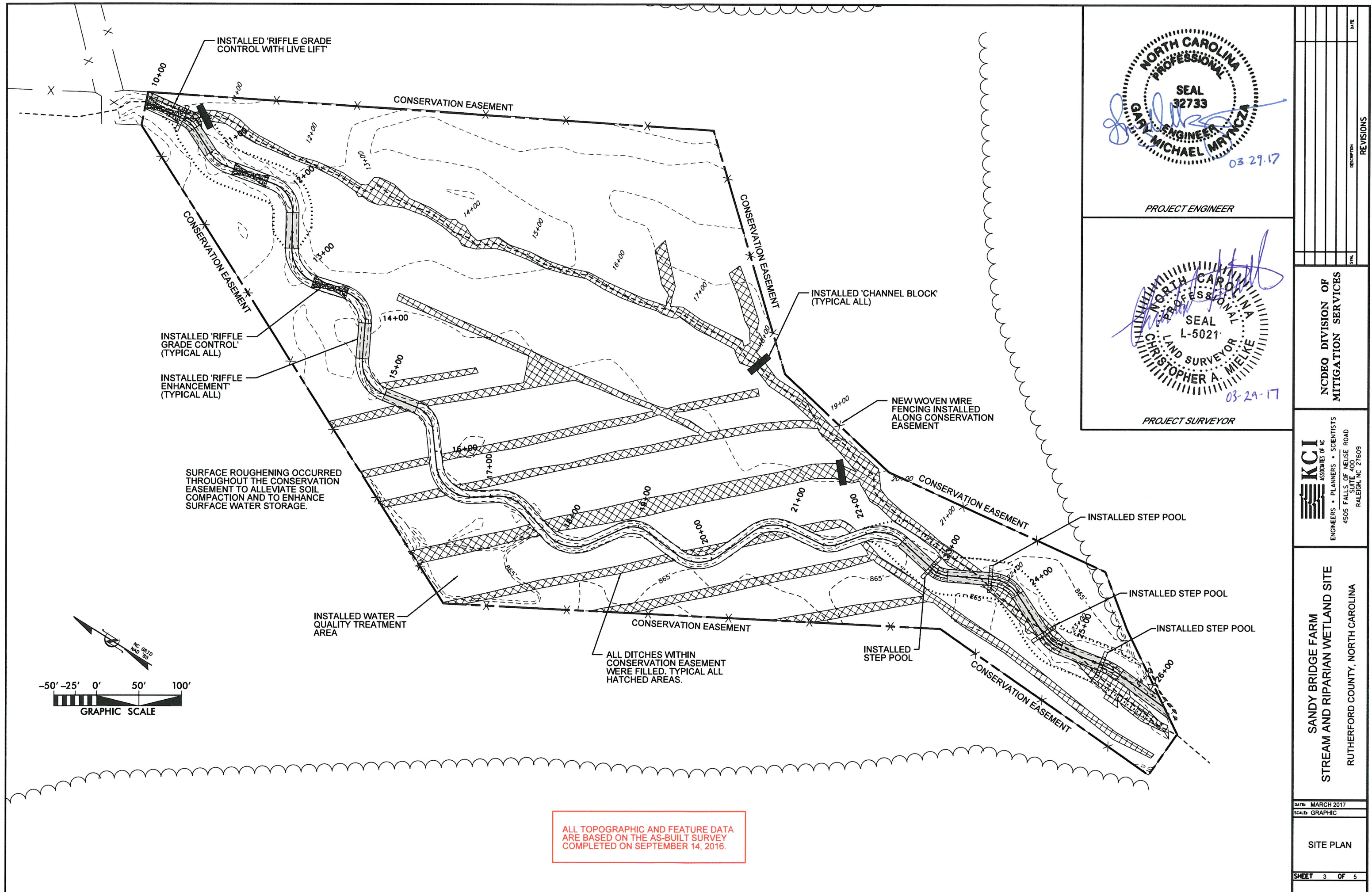
PROJECT LEGEND:

New Thalweg w/Approximate Bankfull Limits		Woods Line	
Step Pool		Minor Contour Line	
Riffle Grade Control		Major Contour Line	
Live Lift			
Riffle Enhancement			
Channel Block			
Filled Ditches			

DATE: MARCH 2017
SCALE: N.T.S.

GENERAL
NOTES &
PROJECT
LEGEND

SHEET 2 OF 5



PROJECT ENGINEER



PROJECT SURVEYOR

NO.	DATE	REVISIONS

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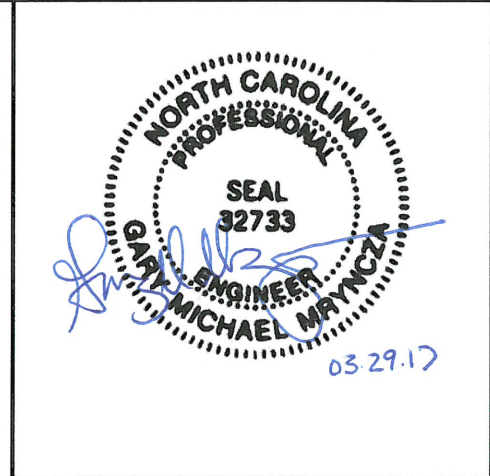
SANDY BRIDGE FARM
STREAM AND RIPARIAN WETLAND SITE
RUTHERFORD COUNTY, NORTH CAROLINA

DATE: MARCH 2017
SCALE: GRAPHIC

SITE PLAN

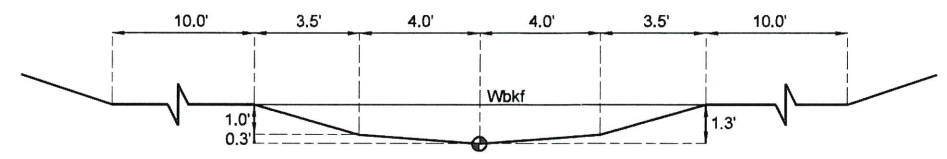
SHEET 3 OF 5

ALL TOPOGRAPHIC AND FEATURE DATA
ARE BASED ON THE AS-BUILT SURVEY
COMPLETED ON SEPTEMBER 14, 2016.

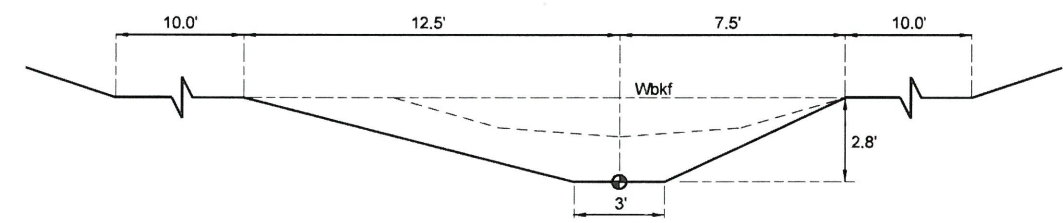


NO.	DESCRIPTION	DATE

TRIBUTARY 1
STATION 10+00 TO STATION 26+26
"C4" STREAM TYPE



⊕ = THALWEG LOCATION
TYPICAL RIFFLE



⊕ = THALWEG LOCATION
TYPICAL POOL - RIGHT MEANDER

NOTE:
MIRROR POOL CROSS-SECTION
FOR LEFT MEANDER.

NCDEQ DIVISION OF
MITIGATION SERVICES

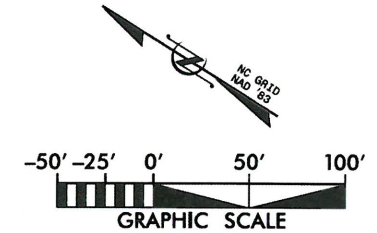
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RALEIGH, NC 27609

SANDY BRIDGE FARM
STREAM AND RIPARIAN WETLAND SITE
RUTHERFORD COUNTY, NORTH CAROLINA

DATE: MARCH 2017
SCALE: 1"=40'

TYPICAL
CROSS-SECTION

SHEET 4 OF 5



STREAM ZONE

STREAM ZONE
LIVE STAKES: 1.5' TO 2' LENGTHS, 1/2" TO 2" DIAMETER,
2 ROWS AT 3' CENTER SPACING, RANDOM SPECIES PLACEMENT

COMMON NAME	SCIENTIFIC NAME
BLACK WILLOW	SALIX NIGRA
SILKY WILLOW	SALIX SERICEA
SILKY DOGWOOD	CORNUS AMOMUM

RIPARIAN ZONE

PIEDMONT ALLUVIAL FOREST PLANTING ZONE = 8.88 ACRES
12" - 18" BARE ROOT MATERIAL
968 STEMS/ACRE (9' X 5' SPACING), RANDOM SPECIES PLACEMENT

COMMON NAME	SCIENTIFIC NAME	STATUS	% OF TOTAL	# OF PLANTS
RED CHOKEBERRY	ARONIA ARBUTIFOLIA	FACW	3	260
RIVER BIRCH	BETULA NIGRA	FACW	9	770
SUGARBERRY	CELTIS LAEVIGATA	FACW	6	520
BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	OBL	6	520
SILKY DOGWOOD	CORNUS AMOMUM	FACW	5	430
AMERICAN PERSIMMON	DIOSPYROS VIRGINIANA	FAC	4	340
GREEN ASH	FRAXINUS PENNSYLVANICA	FACW	8	690
WITCH HAZEL	HAMAMELIS VIRGINIANA	FACU	3	260
WINTERBERRY	ILEX VERTICILLATA	FACW	3	260
SPICEBUSH	LINDERA BENZOIN	FAC	4	340
YELLOW POPLAR	LIRIODENDRON TULIPIFERA	FACU	7	600
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	8	690
COTTONWOOD	POPULUS DELTOIDES	FAC	6	520
SWAMP CHESTNUT OAK	QUERCUS MICHAUXII	FACW	9	770
CHERRYBARK OAK	QUERCUS PAGODA	FACW	7	600
WILLOW OAK	QUERCUS PHELLOS	FAC	6	520
AMERICAN ELM	ULMUS AMERICANA	FACW	6	520

8,610

PLANTING THROUGHOUT CONSERVATION
EASEMENT WAS INSTALLED ON MARCH 8, 2017.

NO.	DATE	DESCRIPTION	REVISIONS

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SANDY BRIDGE FARM
STREAM AND RIPARIAN WETLAND SITE
RUTHERFORD COUNTY, NORTH CAROLINA

DATE: MARCH 2017
SCALE: GRAPHIC

PLANTING PLAN

SHEET 5 OF 5