

GROUNDHOG HOLLOW RECORD DRAWINGS

ALEXANDER COUNTY, NORTH CAROLINA

35.937201° N, 81.237783° W

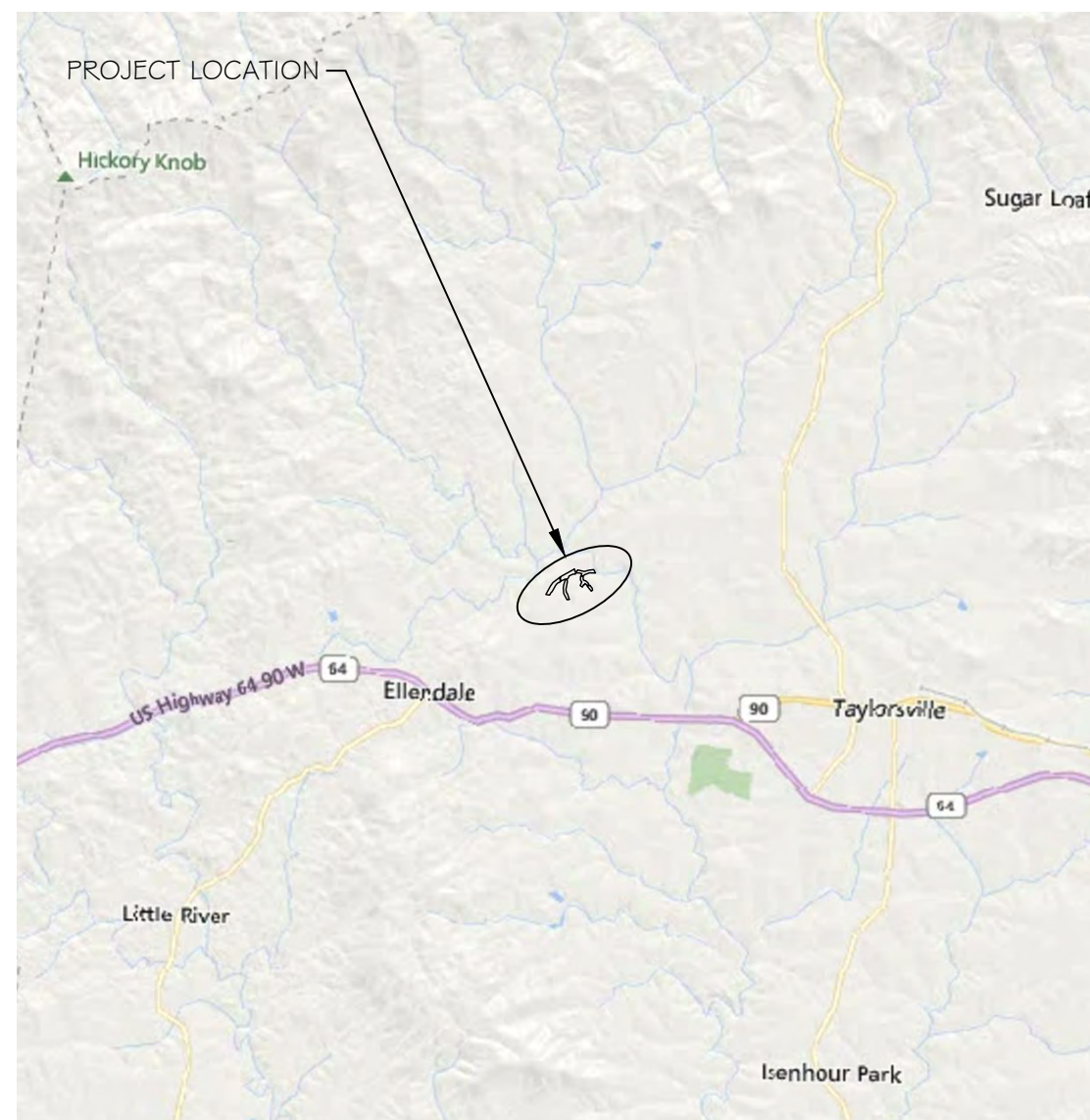
CATAWBA RIVER BASIN: HUC 03050101

JUNE 2021

RESOURCE ENVIRONMENTAL SOLUTIONS, LLC

3600 GLENWOOD AVE, SUITE 100

RALEIGH, NC 27612



VICINITY MAP
NTS



Know what's below.
Call before you dig

NOTICE TO CONTRACTOR

PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT DIRECTORY

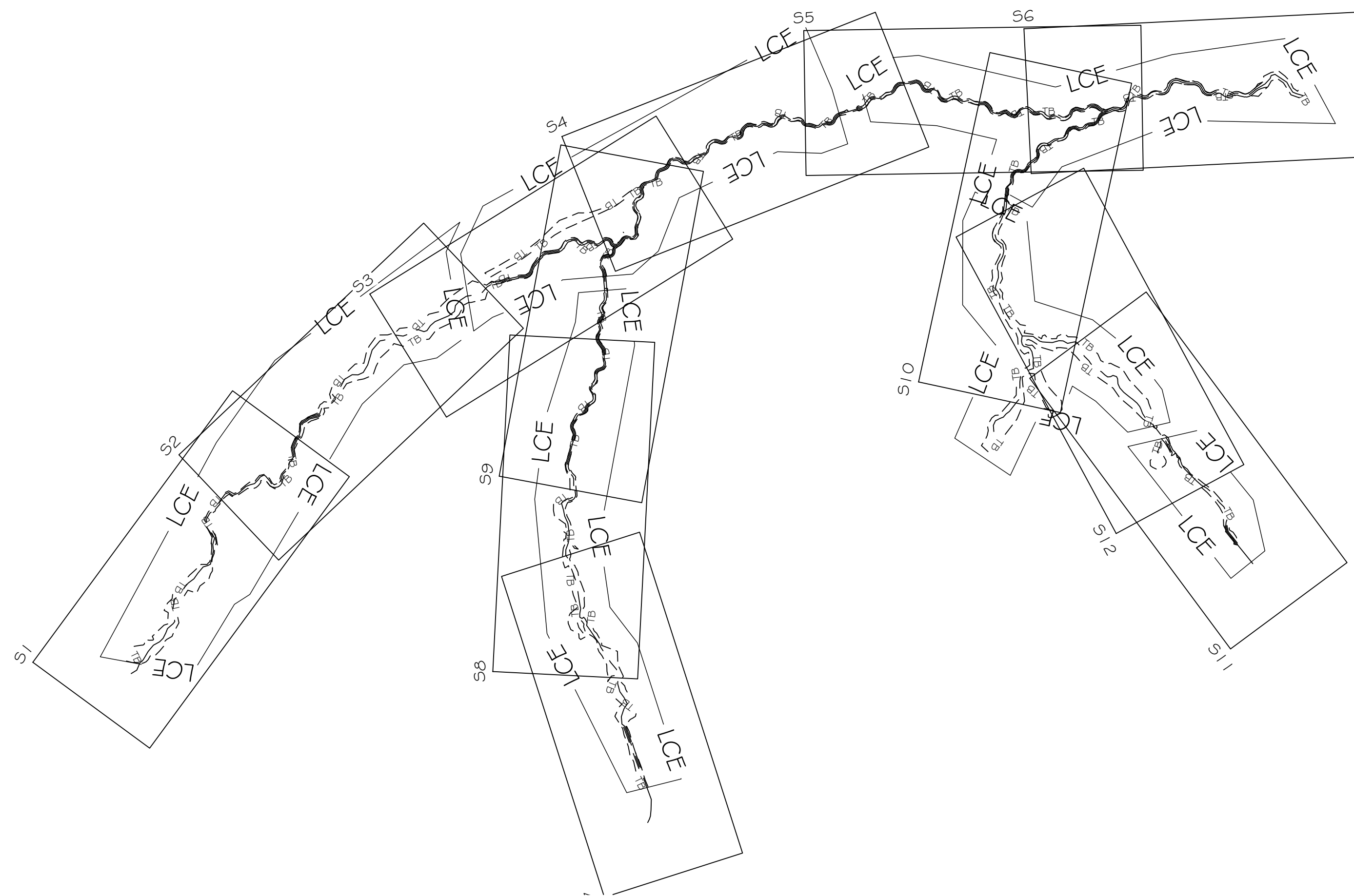
DESIGNED BY:
RESOURCE ENVIRONMENTAL SOLUTIONS, LLC
3600 GLENWOOD AVE, SUITE 100
RALEIGH, NC 27612

DESIGNED FOR:
PAUL WIESNER
NC DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF MITIGATION SERVICES
217 WEST JONES ST., SUITE 300A
RALEIGH, NC 27603

SURVEYED BY:
WSP USA INC.
128 TALBERT RD, SUITE A
MOORESVILLE, NC 28117

DMS PROJECT #: 100049
CONTRACT #: 7417
USACE ACTION ID #: SAW-2018-00450
RFP #: 16-007277

PROJECT TOPOGRAPHY AND AS-BUILT PLANIMETRICS SURVEY WAS PROVIDED BY WSP USA INC. (NC FIRM LICENSE NUMBER F-0165, BARRY W. CREEK, NC PLS L-4776), DATED APRIL 22, 2021



SITE MAP
NTS

Sheet List Table

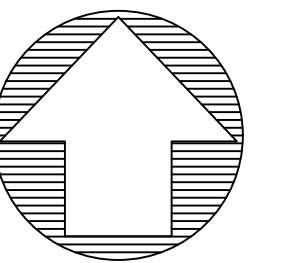
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-	COVER
S1	REACH GF1
S2	REACH GF1
S3	REACH GF1
S4	REACH GF1
S5	REACH GF1
S6	REACH GF1
S7	REACH GF2
S8	REACH GF2
S9	REACH GF2
S10	REACH GF3
S11	REACH GF4
S12	REACH GF4
PI	PLANTING PLAN



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Raleigh, NC 27612
Main: 919.829.9909
www.res.us

Engineering Services Provided By:
RES Environmental Operating Company, LLC
License: F-1428

SEAL



PLOT DATE:
3/16/2021

REVISIONS:

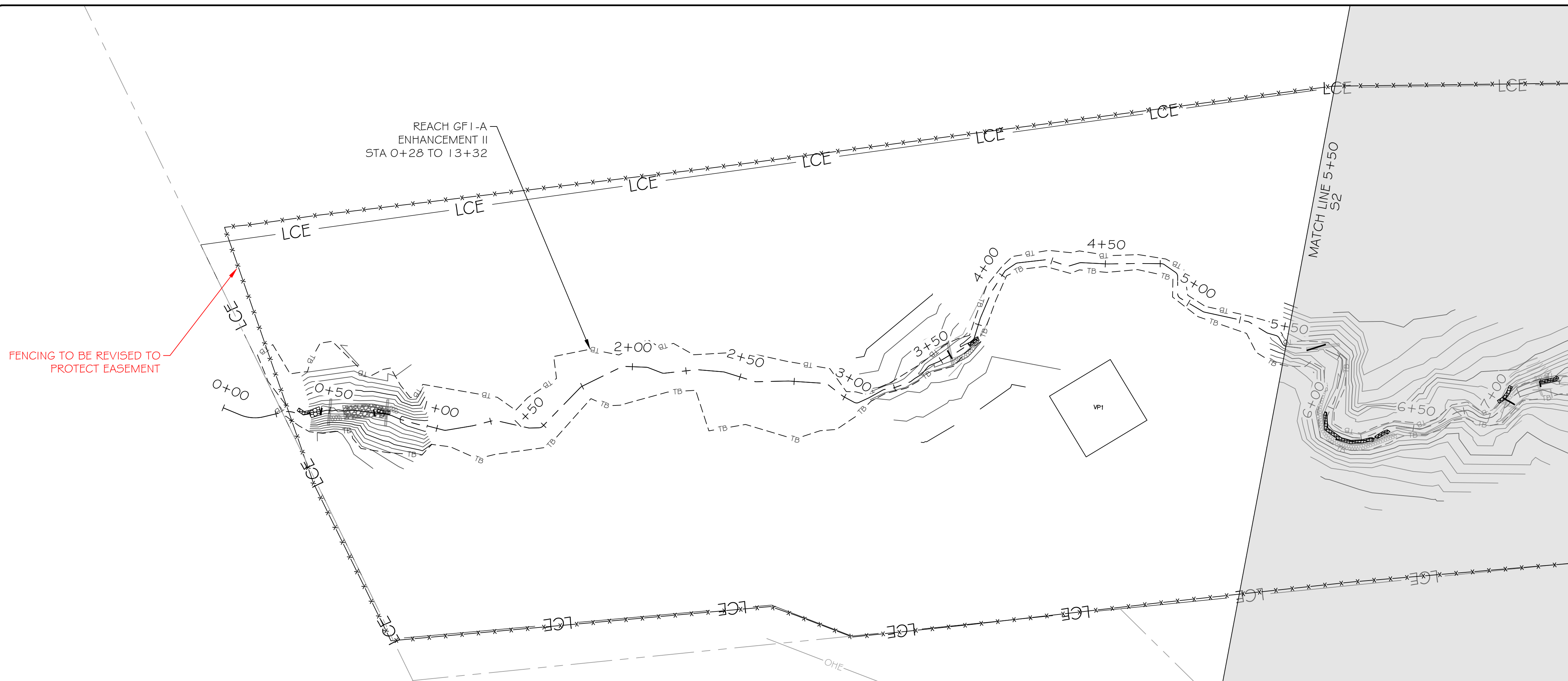
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PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:

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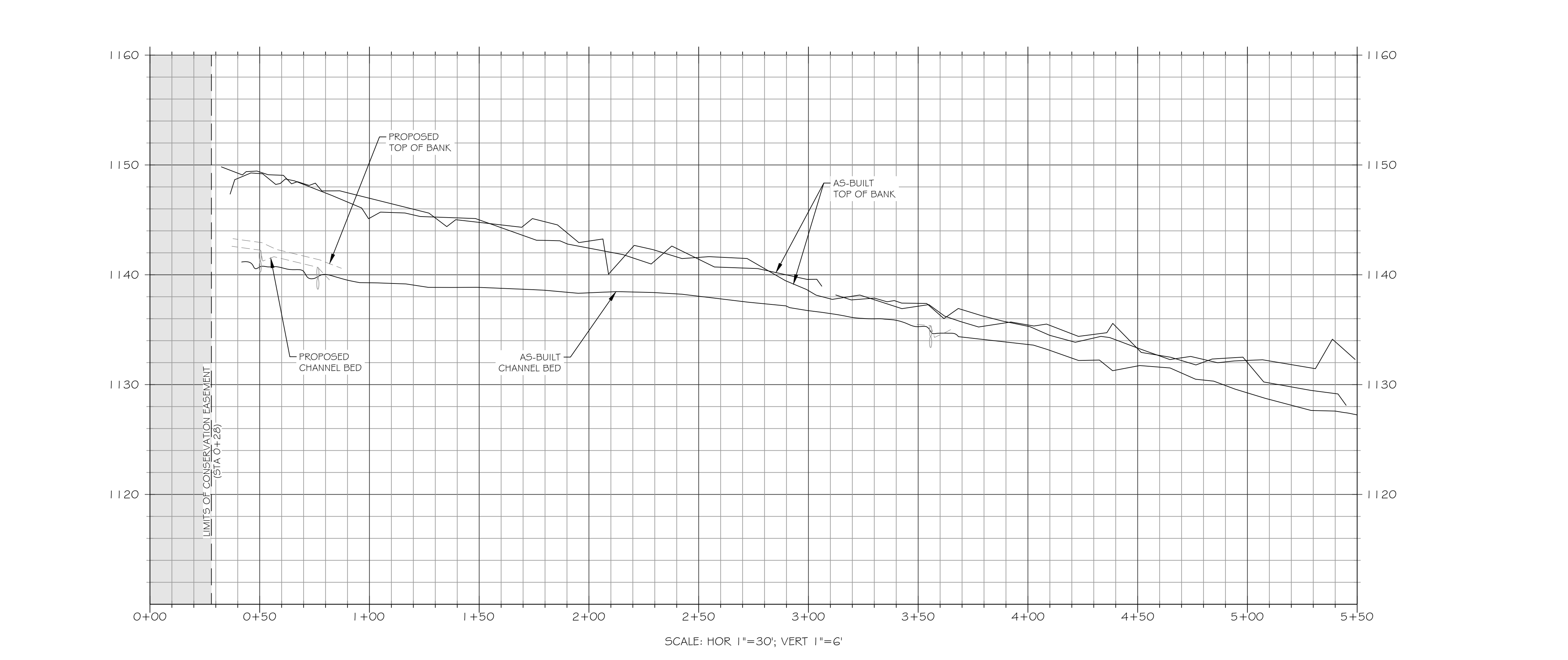
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LEGEND

EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
AS-BUILT CONTOUR MINOR	
AS-BUILT TOP OF BANK	
AS-BUILT CHANNEL CENTERLINE	
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
ENGINEERED SEDIMENT PACK	
AS-BUILT BRUSH TOE	
AS-BUILT LOG STRUCTURE	
AS-BUILT ROCK SILL	
AS-BUILT RIFFLE GRADE CONTROL	
AS-BUILT ENGINEERED SEDIMENT PACK	
AS-BUILT CROSS-SECTION	
AS-BUILT STAGE RECORDER	
AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	
LIMITS OF RECORDED CONSERVATION EASEMENT	

NOTE: ALL SIGNIFICANT CHANGES FROM THE DESIGN ARE SHOWN IN RED



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SEAL

FULL SCALE: 1"=30'
2" = FULL SCALE
1" = HALF SCALE

PLOT DATE:
6/1/2021

REVISIONS:

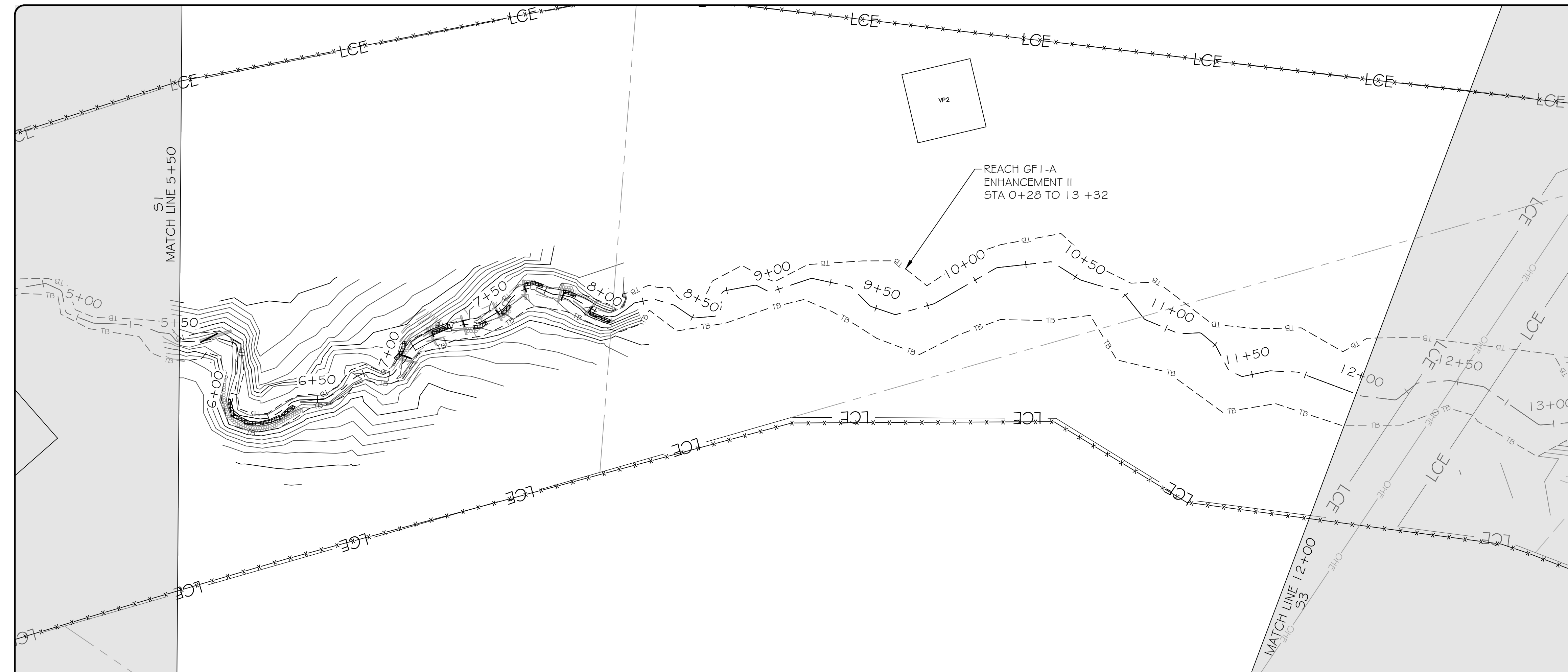
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RECORD DRAWINGS

PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

DRAWING TITLE:
REACH GF1

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
S1



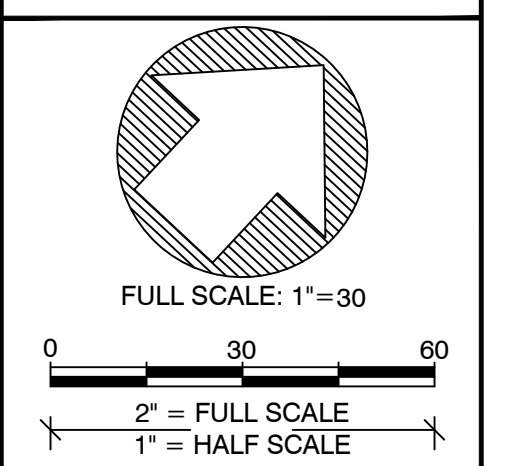
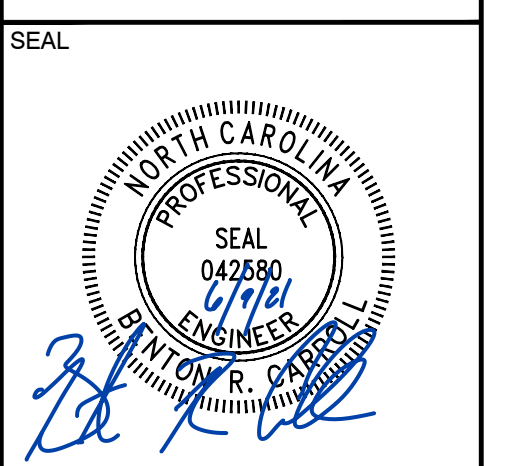
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EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
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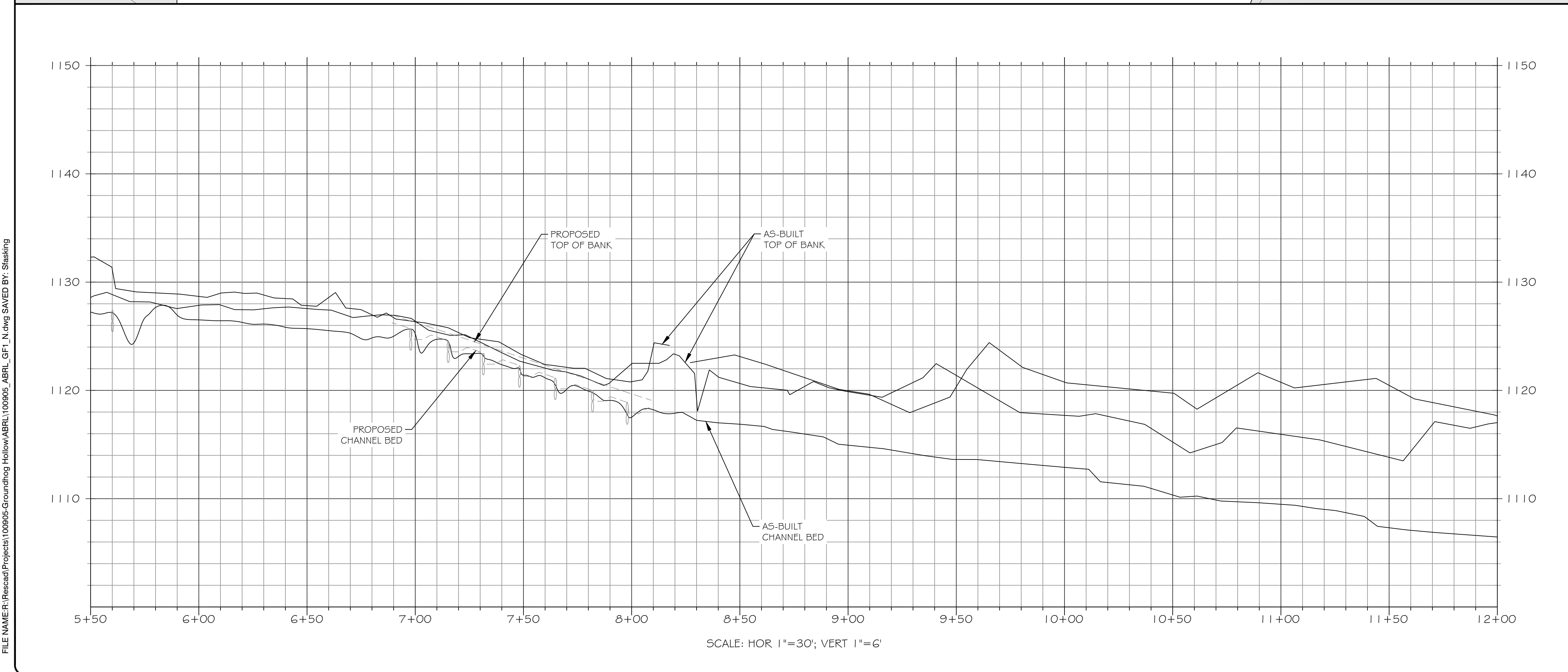
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6/1/2021

REVISIONS:

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DMS PROJECT #: 100049

PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

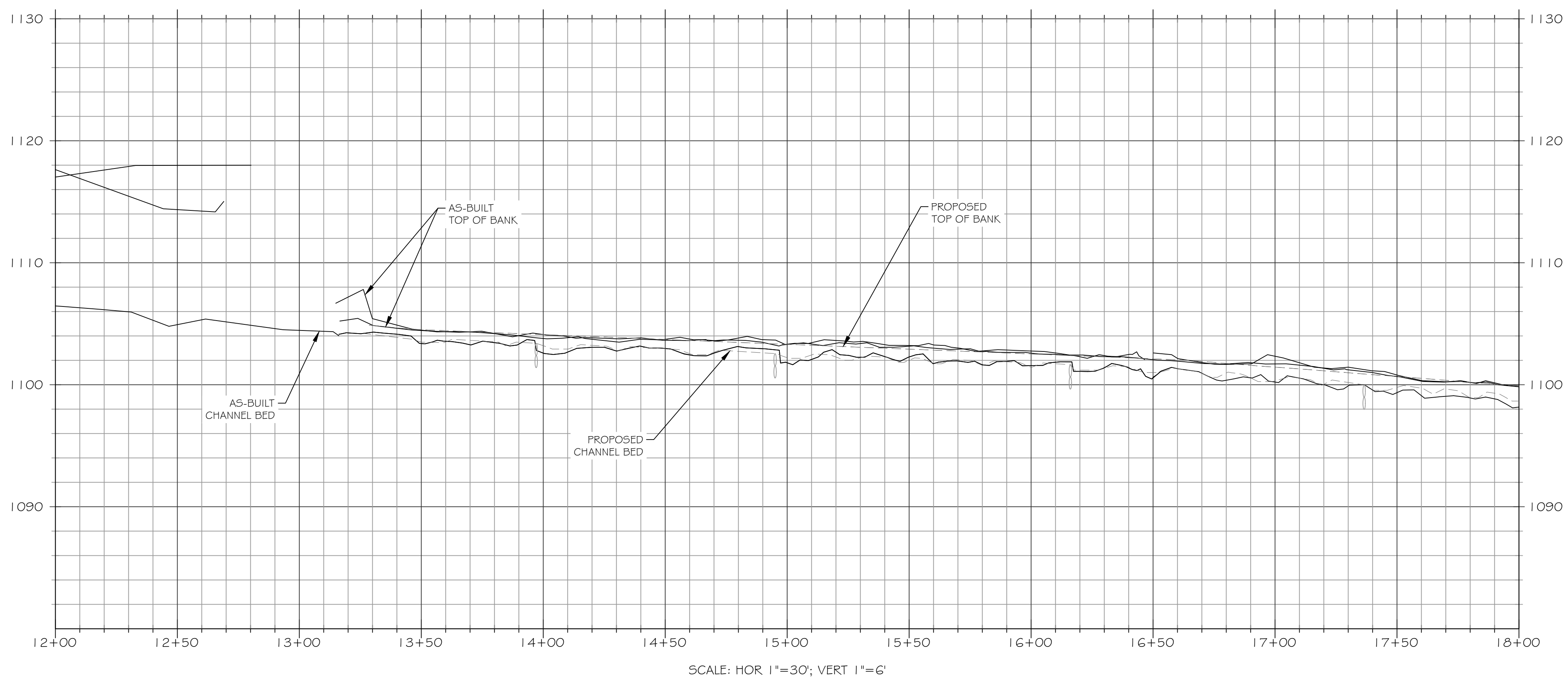
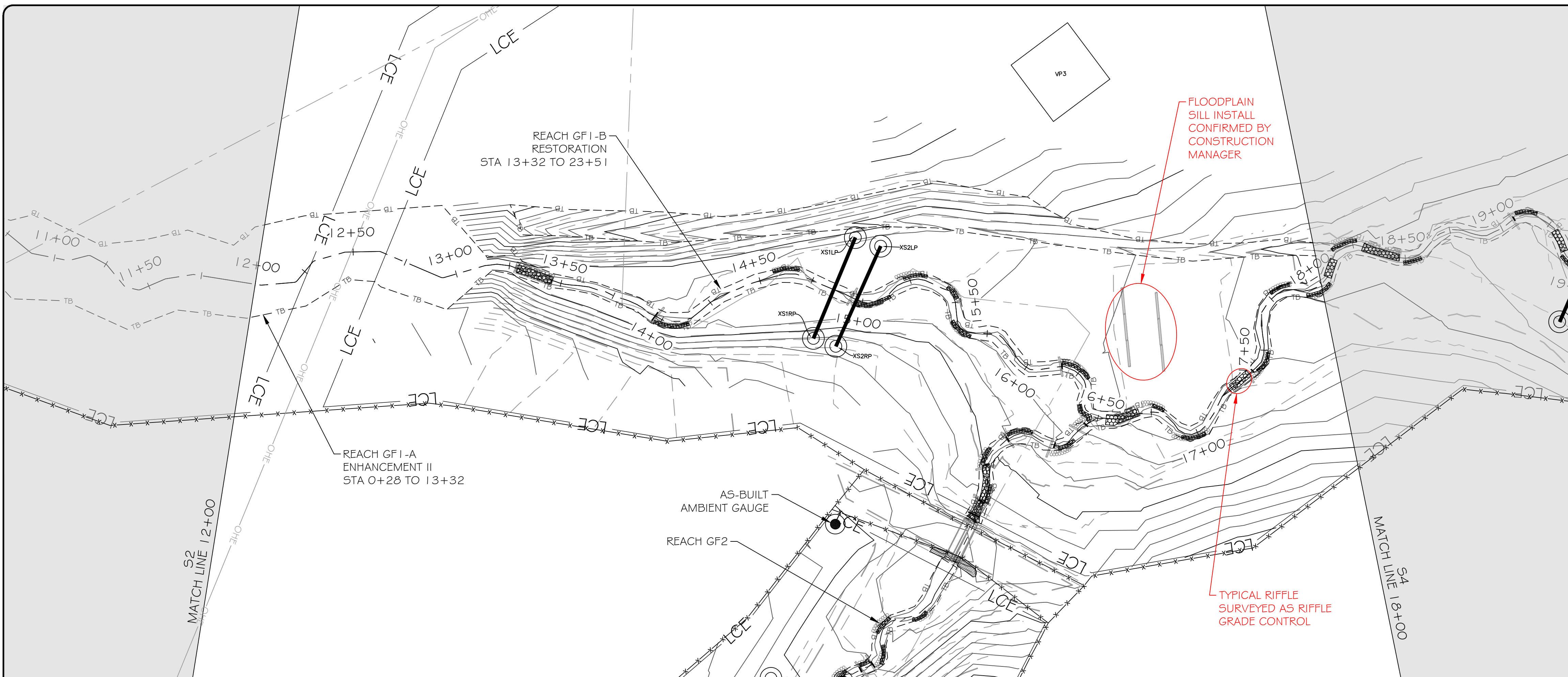
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PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
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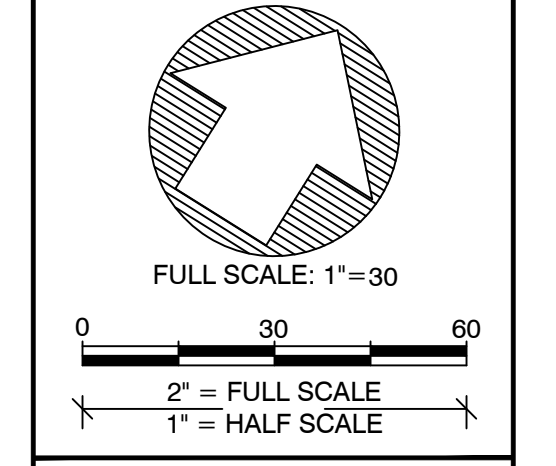
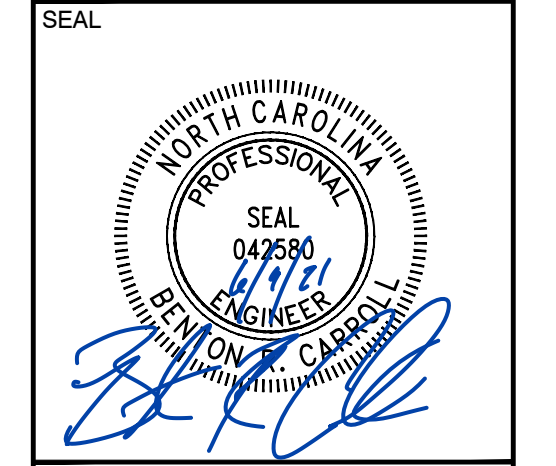
LEGEND

EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
AS-BUILT CONTOUR MINOR	
AS-BUILT TOP OF BANK	
AS-BUILT CHANNEL CENTERLINE	
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
ENGINEERED SEDIMENT PACK	
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AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	
LIMITS OF RECORDED CONSERVATION EASEMENT	

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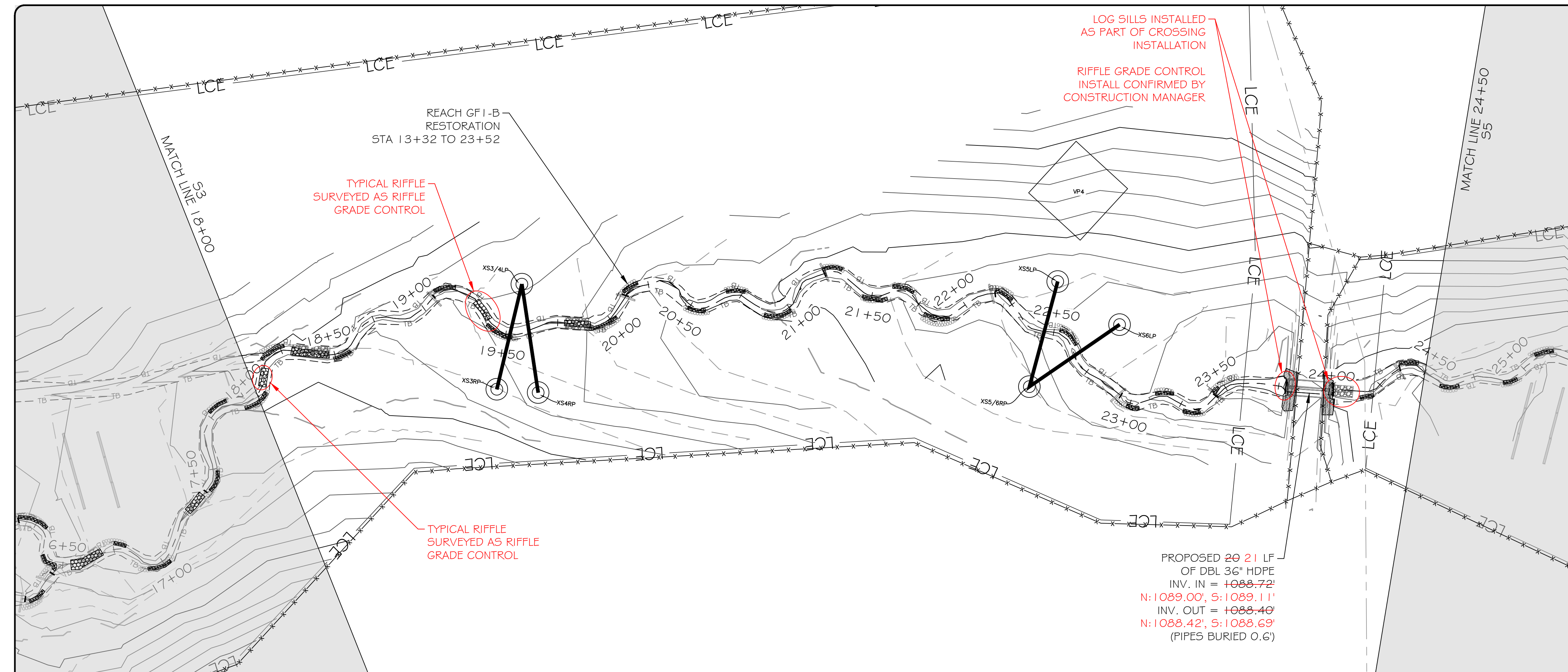
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GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

DRAWING TITLE:
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PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
S3

DMS PROJECT #: 100049



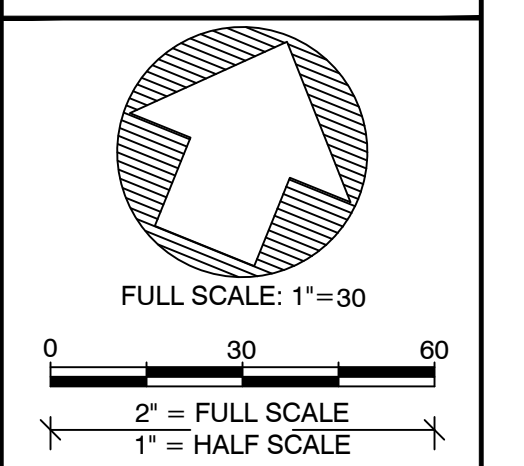
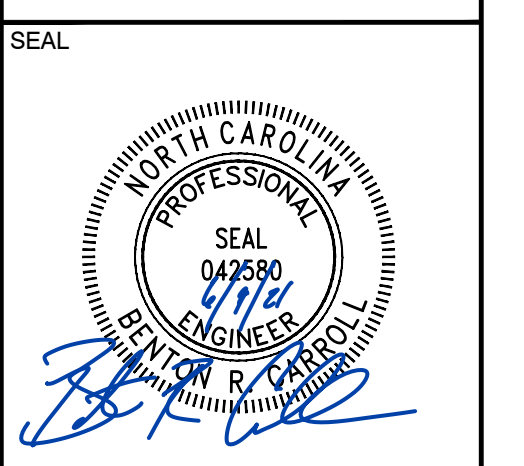
LEGEND

EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	OHE-#
PROPERTY LINE	---
PROPOSED CONTOUR MAJOR	-50-
PROPOSED CONTOUR MINOR	- - -
PROPOSED TOP OF BANK	---
PROPOSED CHANNEL CENTERLINE	---
AS-BUILT CONTOUR MAJOR	(50)
AS-BUILT CONTOUR MINOR	- - -
AS-BUILT TOP OF BANK	---
AS-BUILT CHANNEL CENTERLINE	---
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
ENGINEERED SEDIMENT PACK	
AS-BUILT BRUSH TOE	
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AS-BUILT RIFFLE GRADE CONTROL	
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AS-BUILT CROSS-SECTION	
AS-BUILT STAGE RECORDER	
AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	VP#
LIMITS OF RECORDED CONSERVATION EASEMENT	LCE

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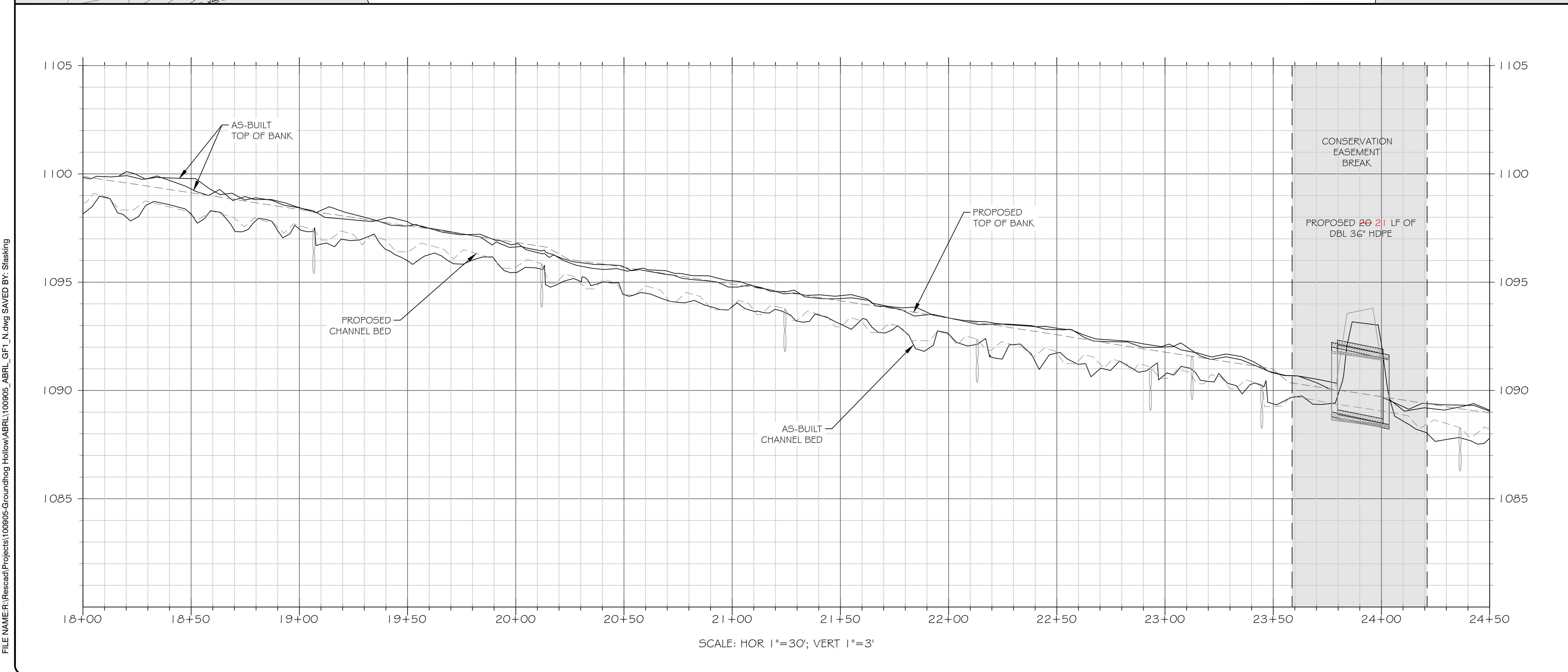
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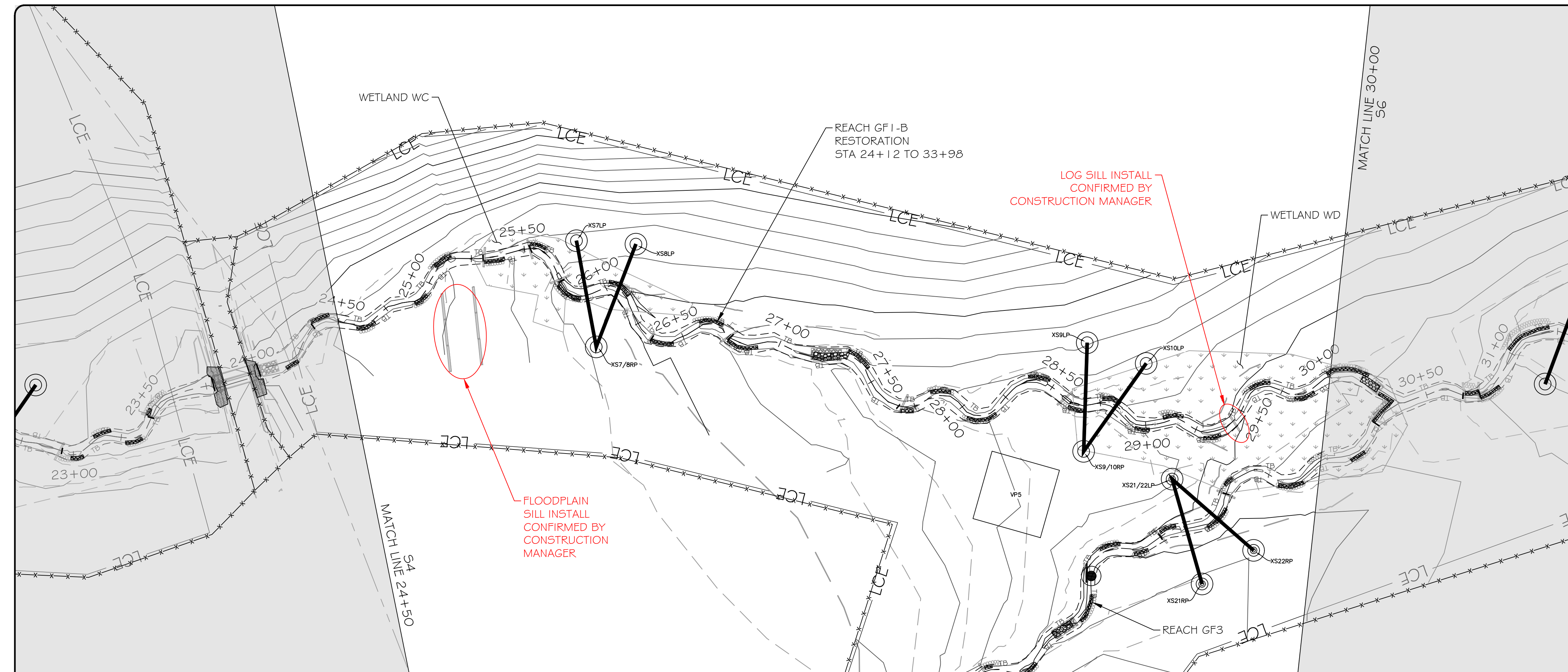
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PROJECT NUMBER: 100905
 PROJECT MANAGER: BPB
 DESIGNED: BRC
 DRAWN: SCF
 CHECKED: BRC

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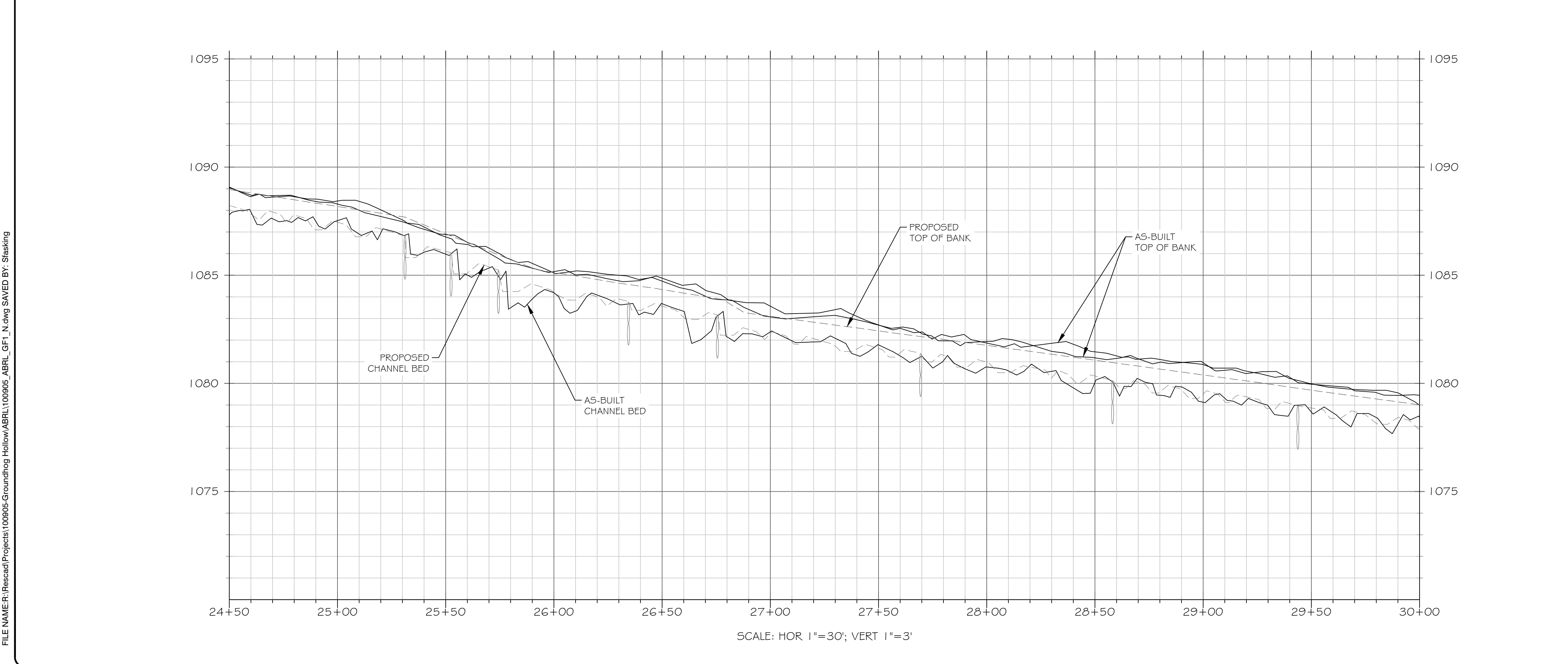
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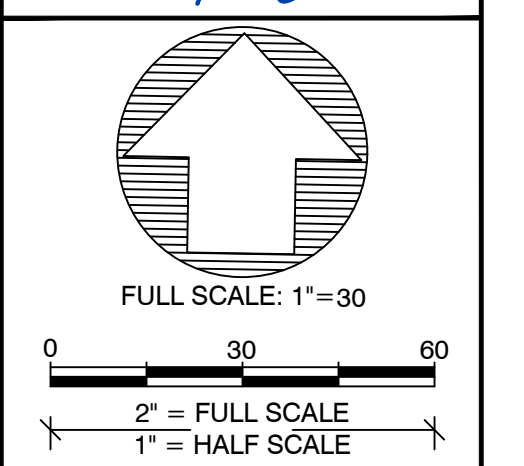
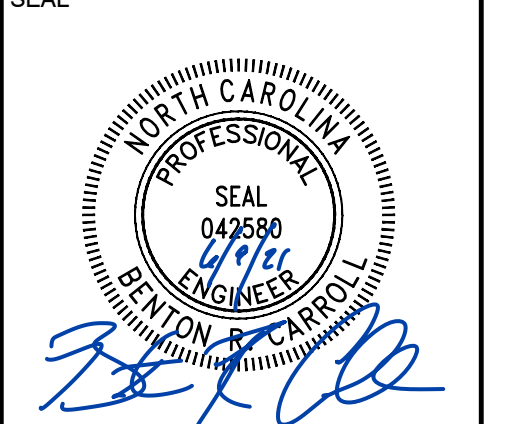
EXISTING WETLAND	
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PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
AS-BUILT CONTOUR MINOR	
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BRUSH TOE PROTECTION	
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ROCK SILL	
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6/1/2021

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PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

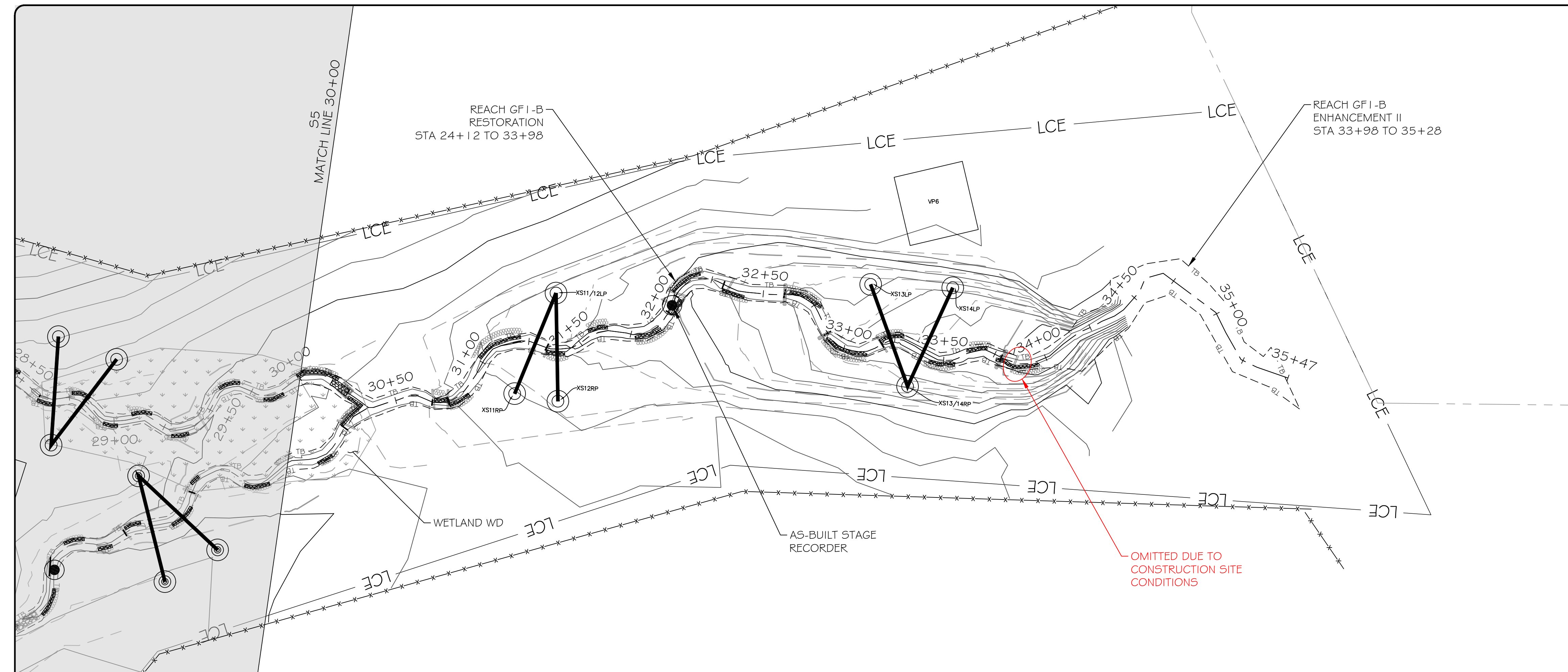
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PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
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DMS PROJECT #: 100049

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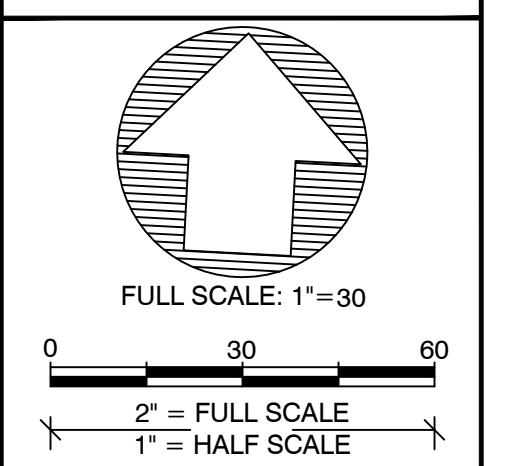
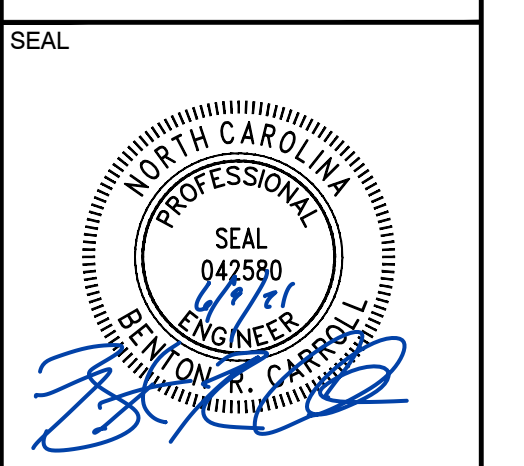
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EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
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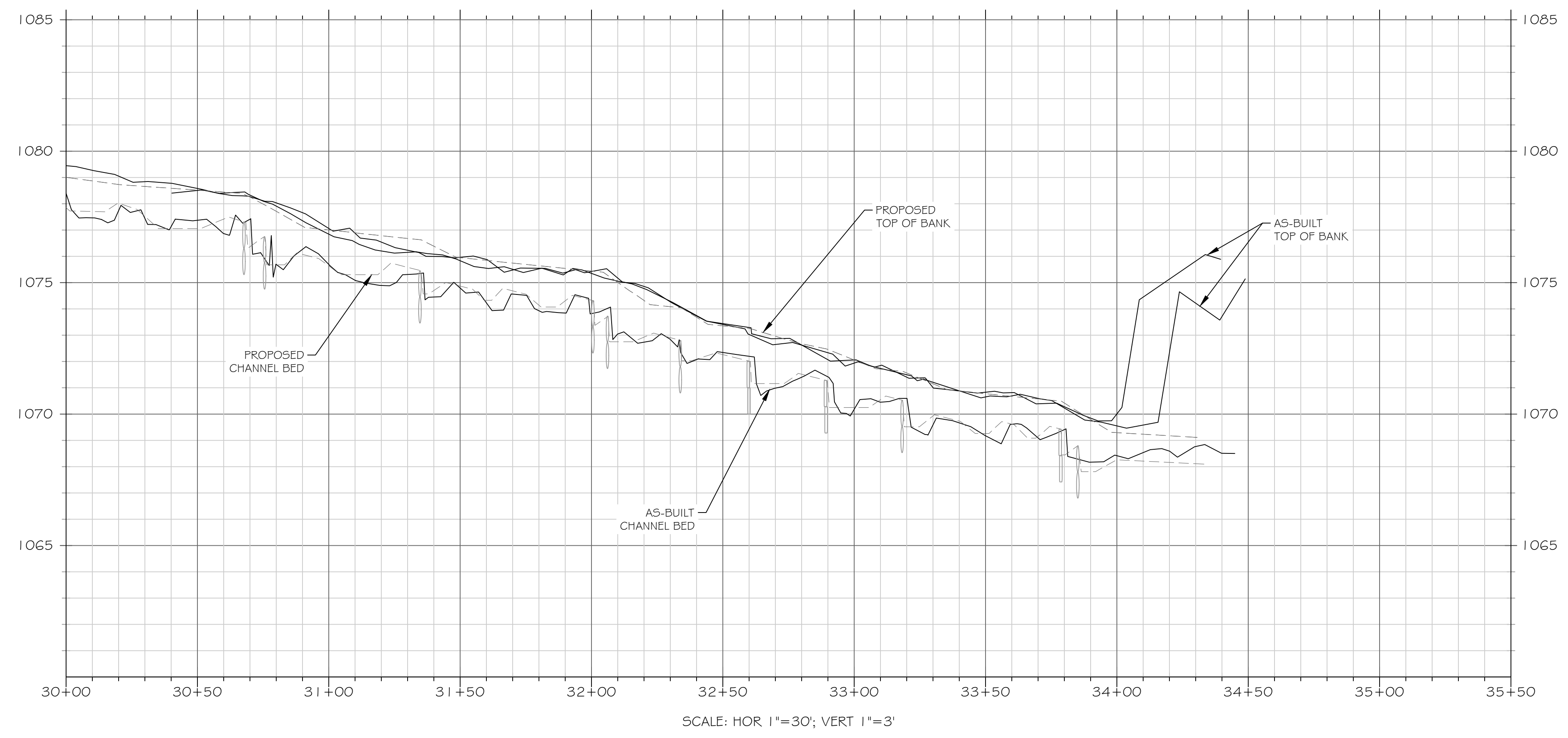
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ALEXANDER COUNTY, NORTH CAROLINA**

DRAWING TITLE:
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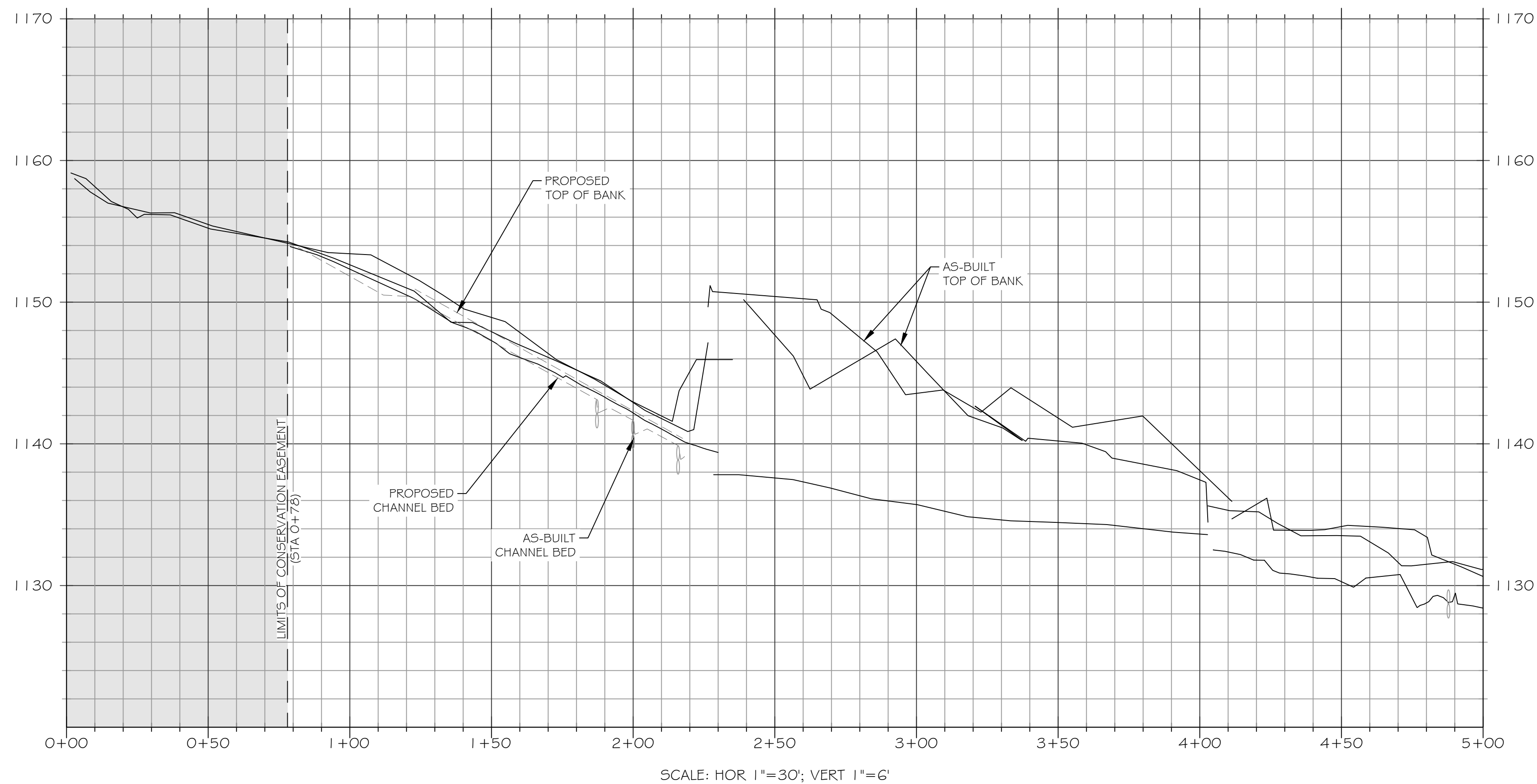
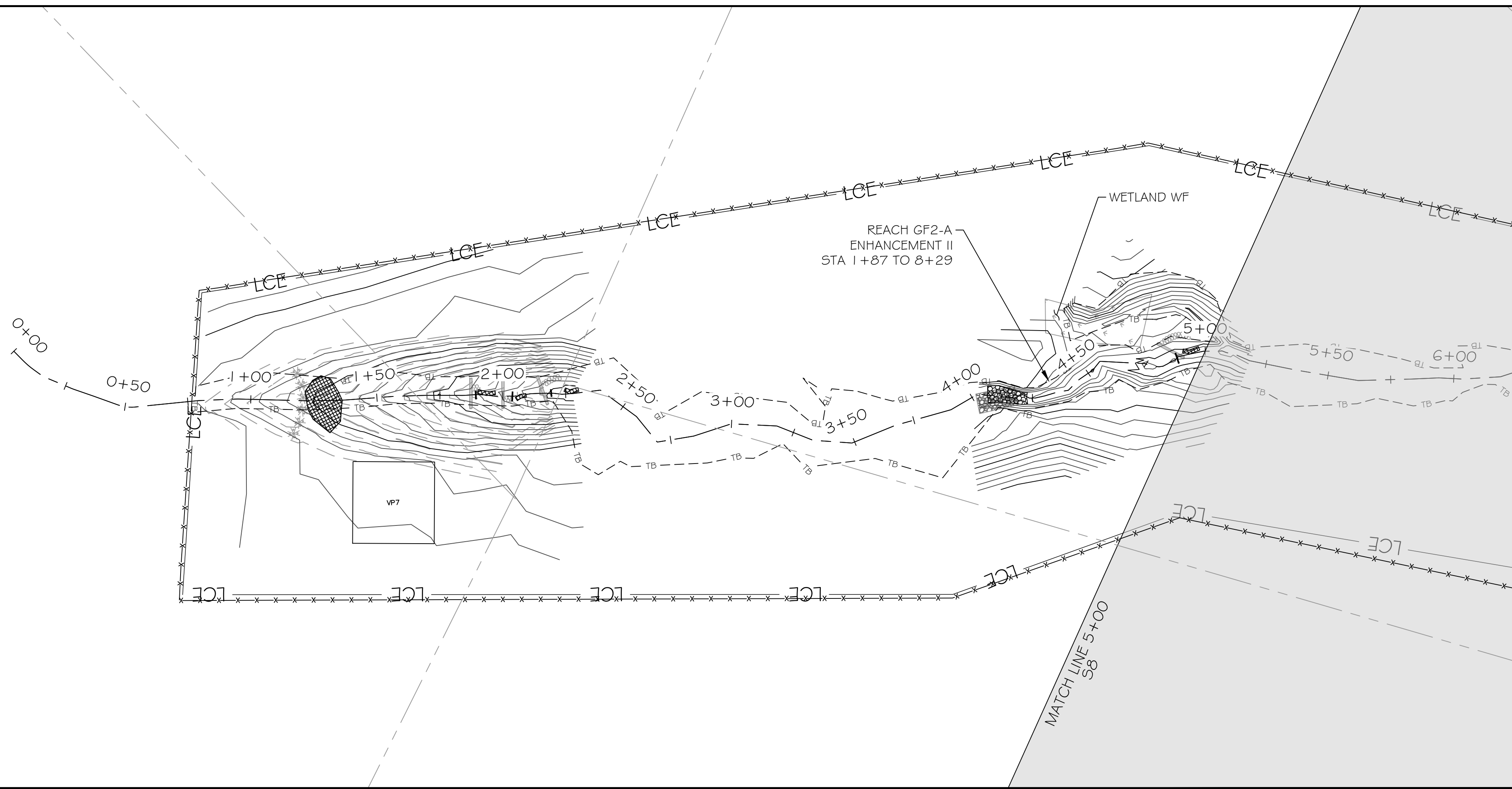
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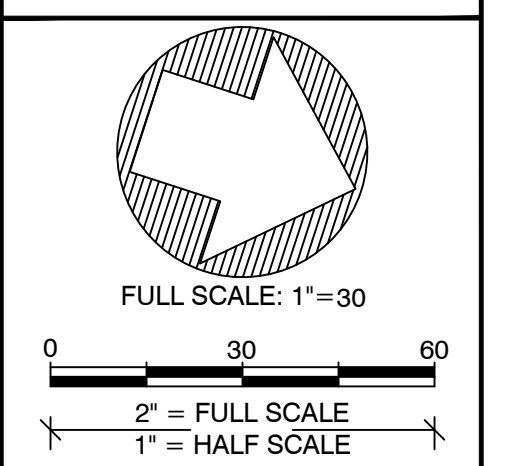
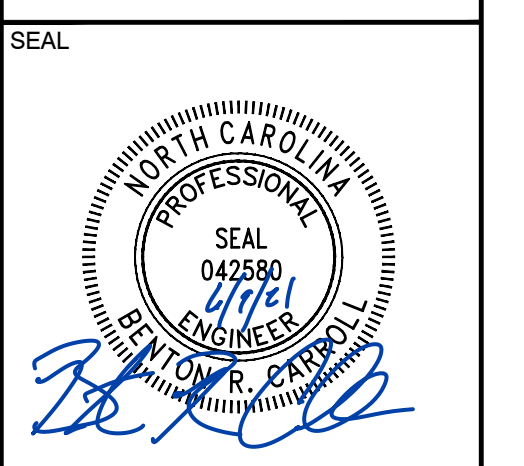
LEGEND

EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
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LIMITS OF RECORDED CONSERVATION EASEMENT	

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6/1/2021

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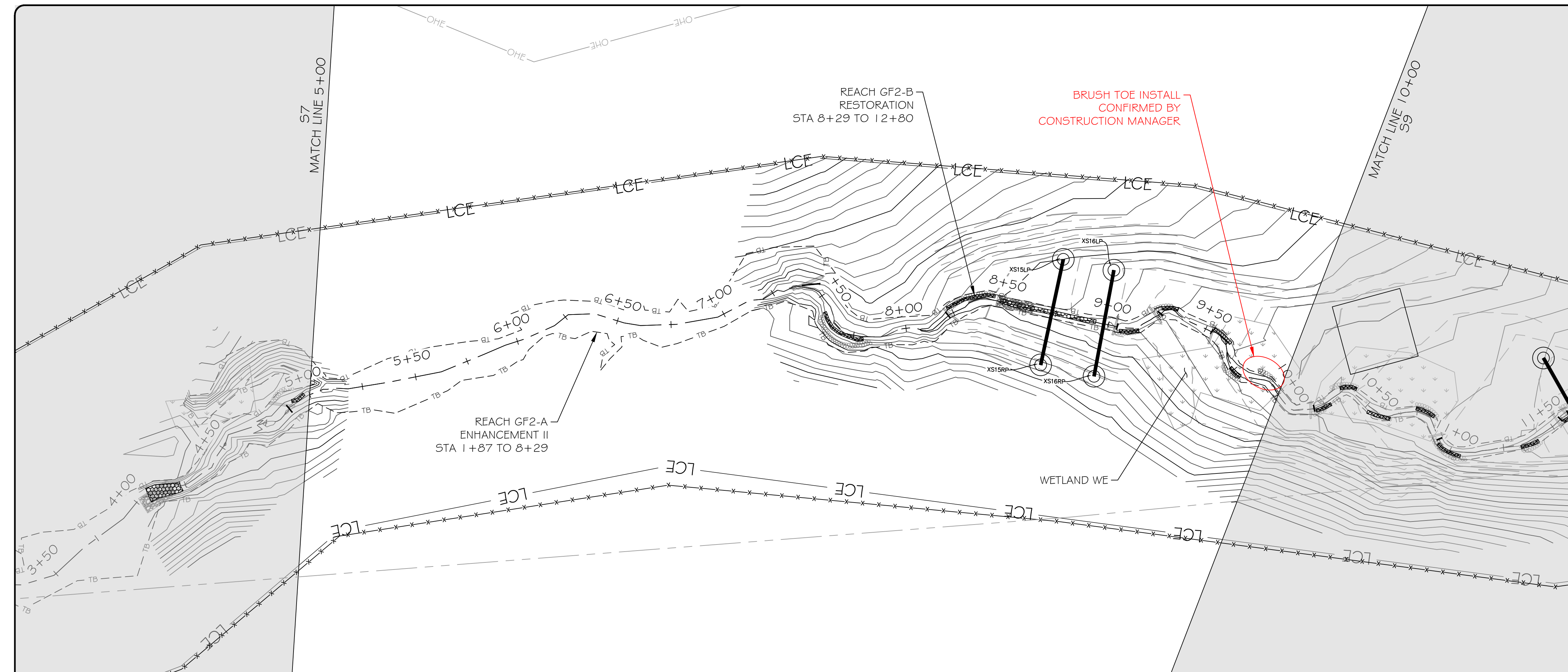
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**GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA**

DRAWING TITLE:
REACH GF2

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
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DMS PROJECT #: 100049



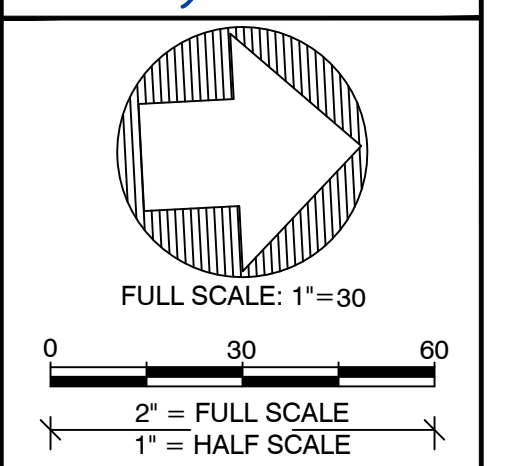
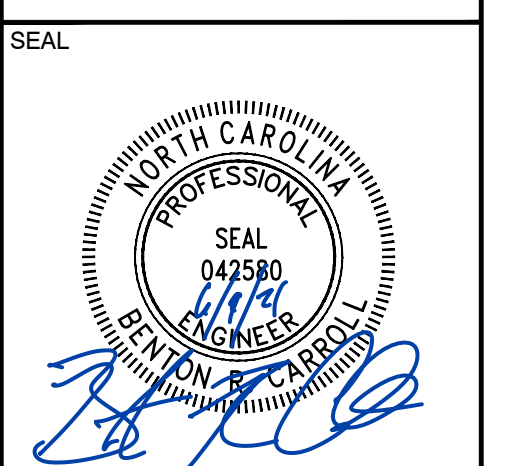
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EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
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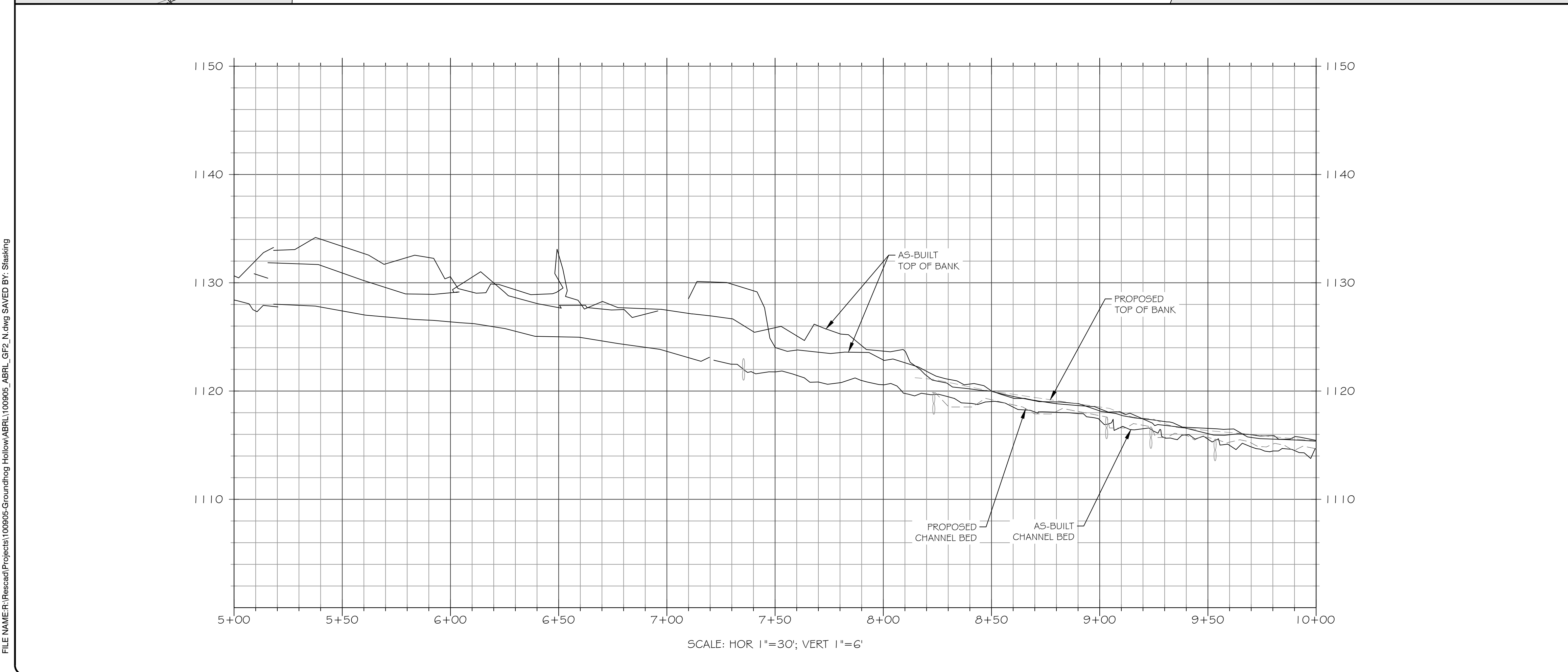
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DMS PROJECT #: 100049

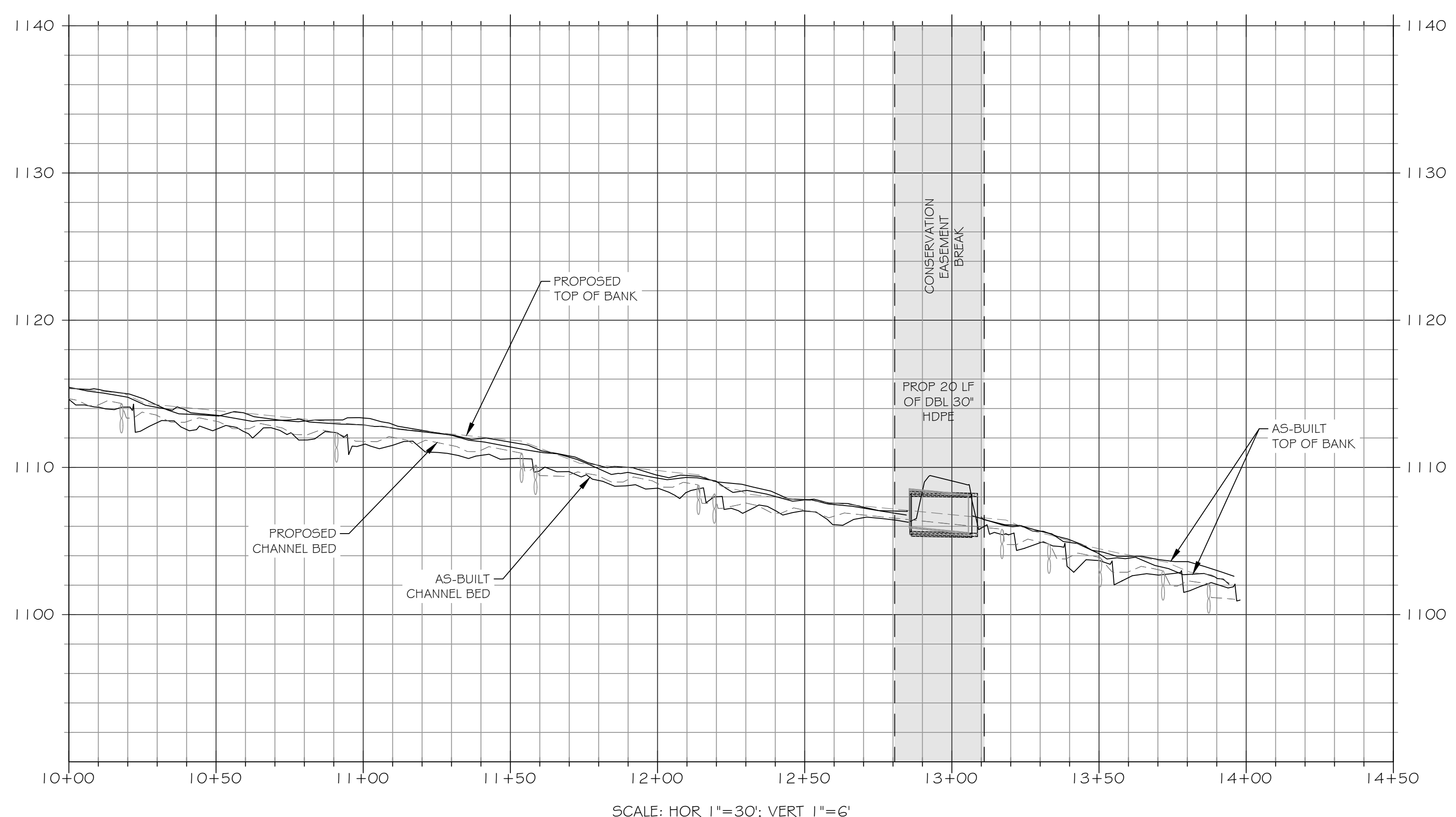
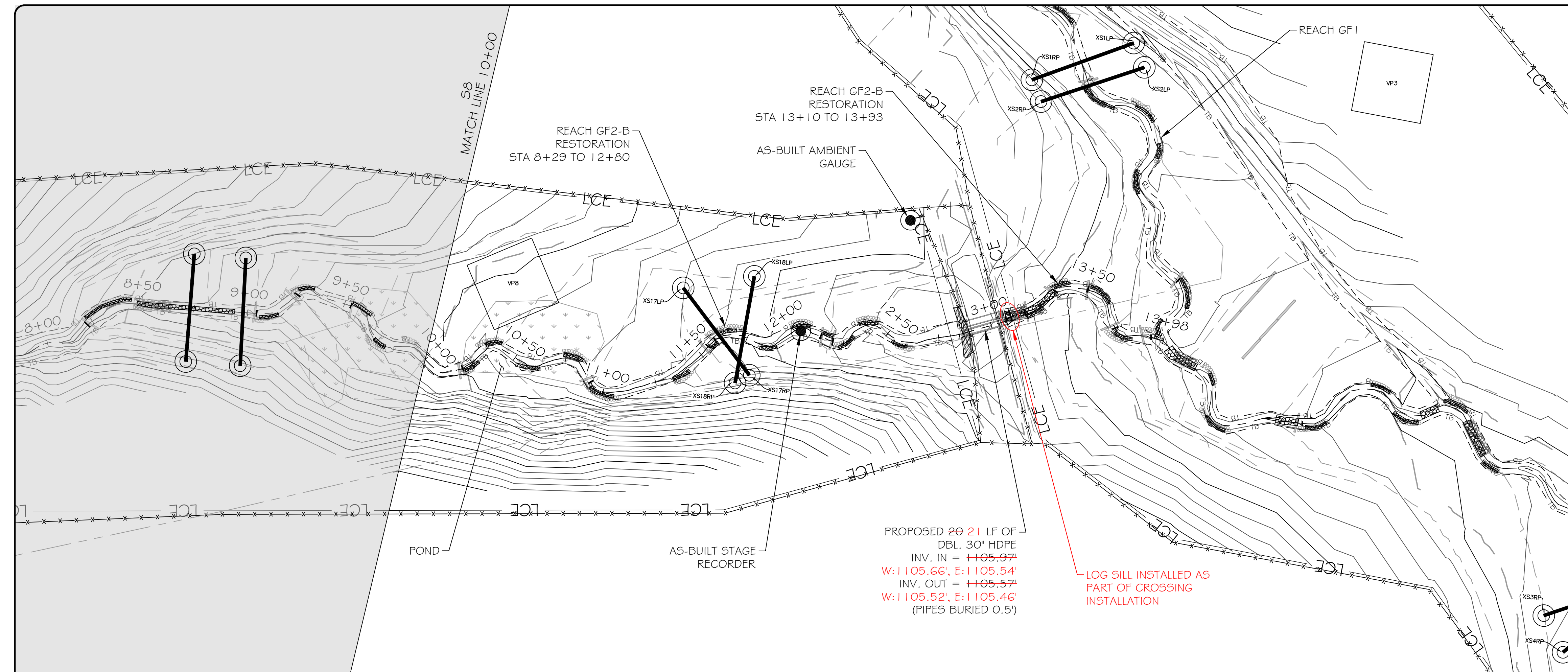
PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

DRAWING TITLE:
REACH GF2

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
S8

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LEGEND

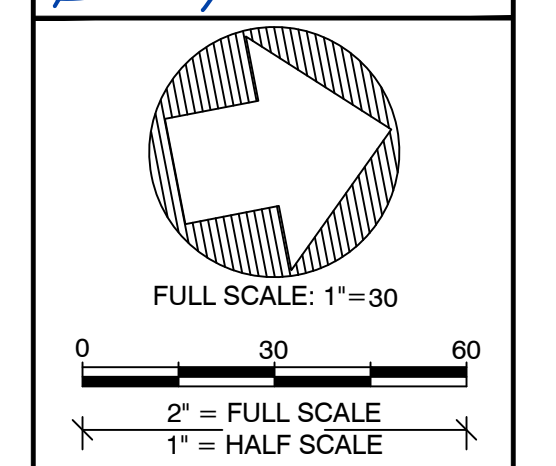
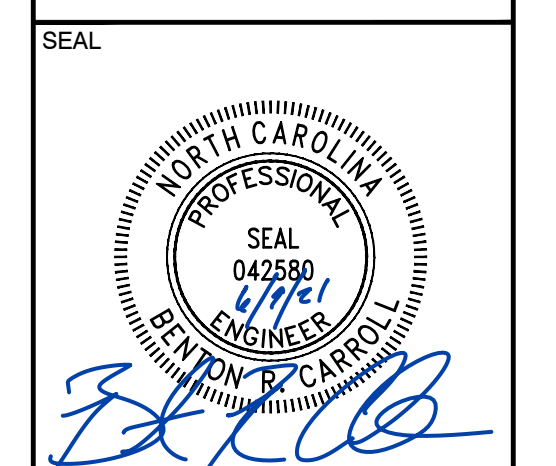
EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
AS-BUILT CONTOUR MINOR	
AS-BUILT TOP OF BANK	
AS-BUILT CHANNEL CENTERLINE	
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
ENGINEERED SEDIMENT PACK	
AS-BUILT BRUSH TOE	
AS-BUILT LOG STRUCTURE	
AS-BUILT ROCK SILL	
AS-BUILT RIFFLE GRADE CONTROL	
AS-BUILT ENGINEERED SEDIMENT PACK	
AS-BUILT CROSS-SECTION	
AS-BUILT STAGE RECORDER	
AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	
LIMITS OF RECORDED CONSERVATION EASEMENT	

NOTE: ALL SIGNIFICANT CHANGES FROM THE DESIGN ARE SHOWN IN RED

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PLOT DATE:
6/1/2021

REVISIONS:

RELEASED FOR:
RECORD DRAWINGS

PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

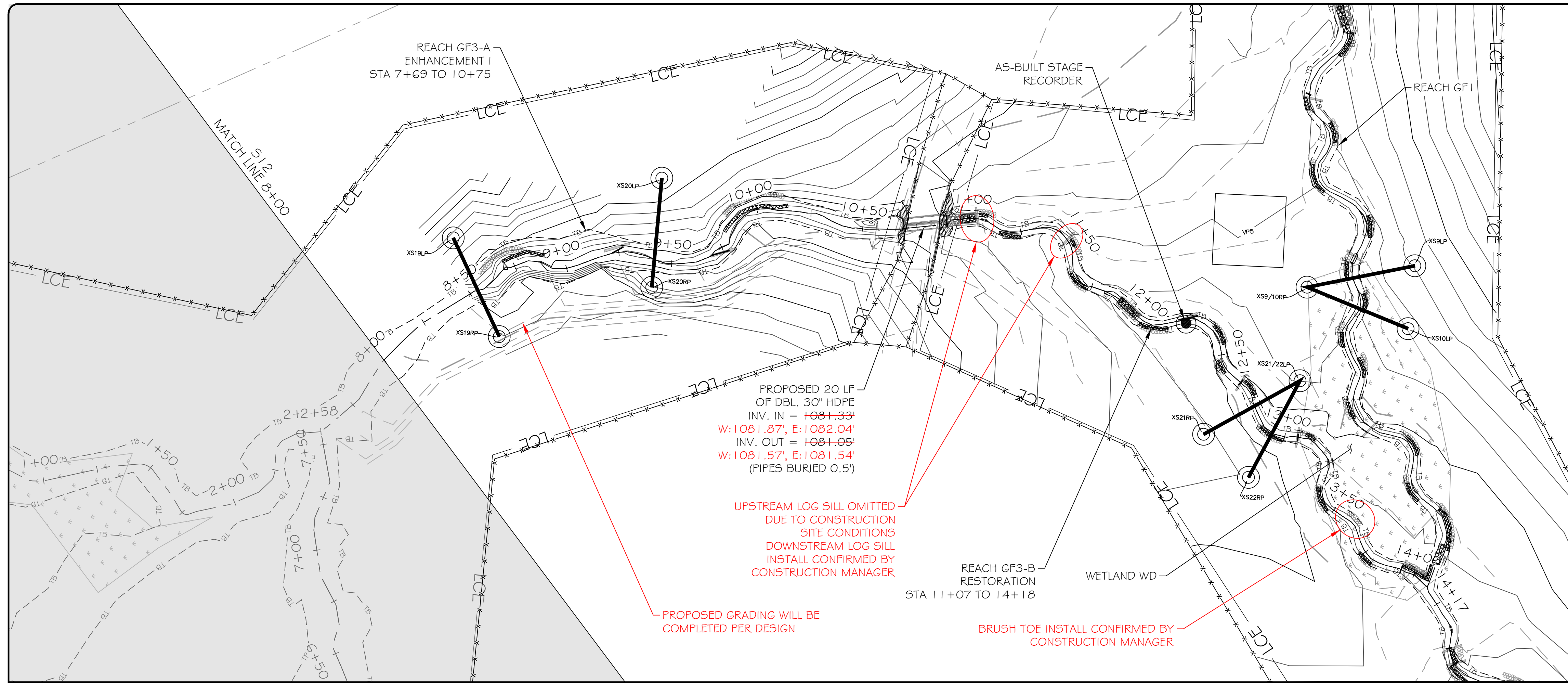
DRAWING TITLE:
REACH GF2

PROJECT NUMBER: 100905
 PROJECT MANAGER: BPB
 DESIGNED: BRC
 DRAWN: SCF
 CHECKED: BRC

SHEET NUMBER:
S9

DMS PROJECT #: 100049

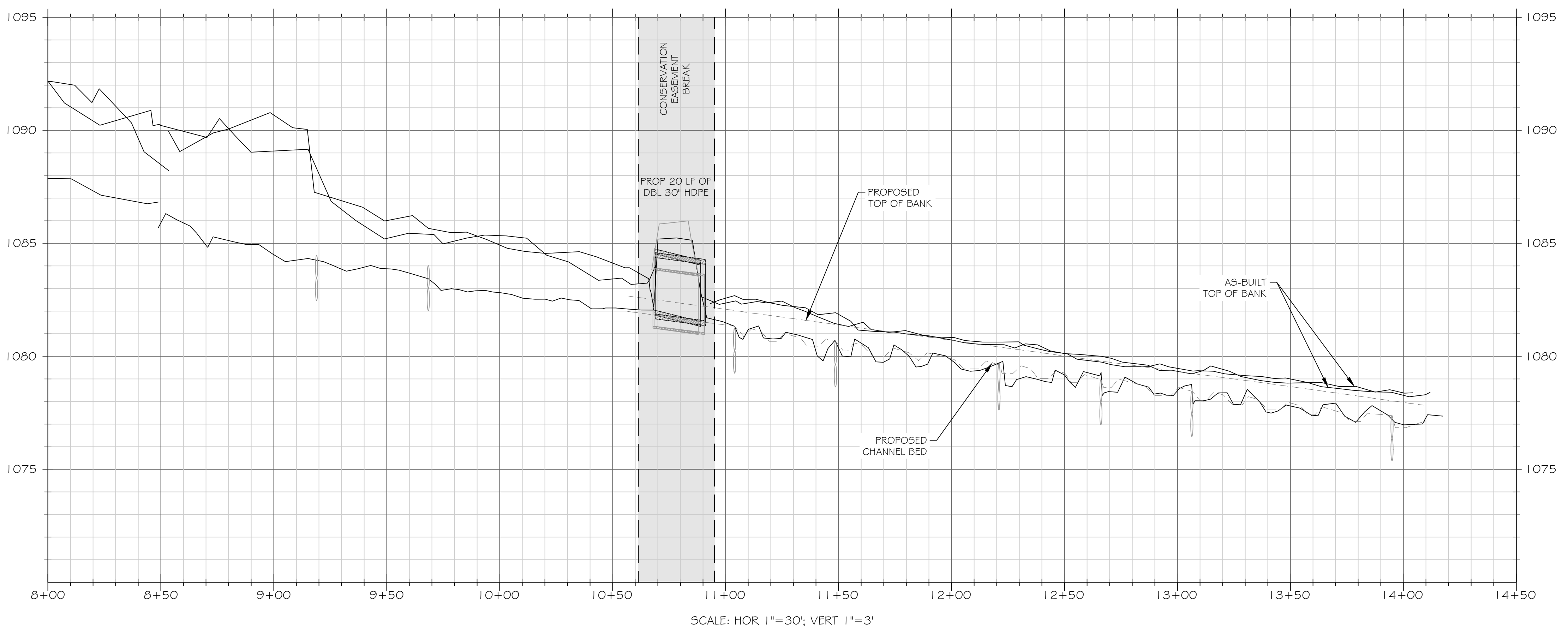
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LEGEND

EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	OHE-#
PROPERTY LINE	---
PROPOSED CONTOUR MAJOR	-50-
PROPOSED CONTOUR MINOR	- - -
PROPOSED TOP OF BANK	---
PROPOSED CHANNEL CENTERLINE	---
AS-BUILT CONTOUR MAJOR	(50)
AS-BUILT CONTOUR MINOR	- - -
AS-BUILT TOP OF BANK	---
AS-BUILT CHANNEL CENTERLINE	---
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
ENGINEERED SEDIMENT PACK	
AS-BUILT BRUSH TOE	
AS-BUILT LOG STRUCTURE	
AS-BUILT ROCK SILL	
AS-BUILT RIFFLE GRADE CONTROL	
AS-BUILT ENGINEERED SEDIMENT PACK	
AS-BUILT CROSS-SECTION	
AS-BUILT STAGE RECORDER	
AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	VP#
LIMITS OF RECORDED CONSERVATION EASEMENT	LCE

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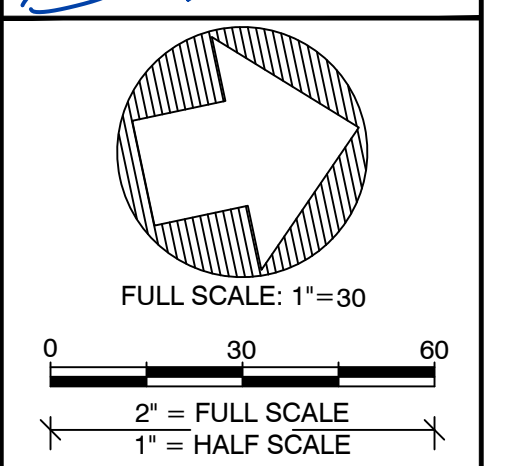
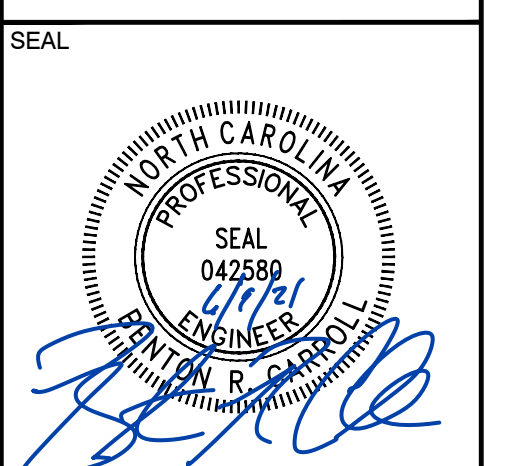


SCALE: HOR 1"=30'; VERT 1"=3'



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PROJECT NAME:
**GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA**

DRAWING TITLE:
REACH GF3

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

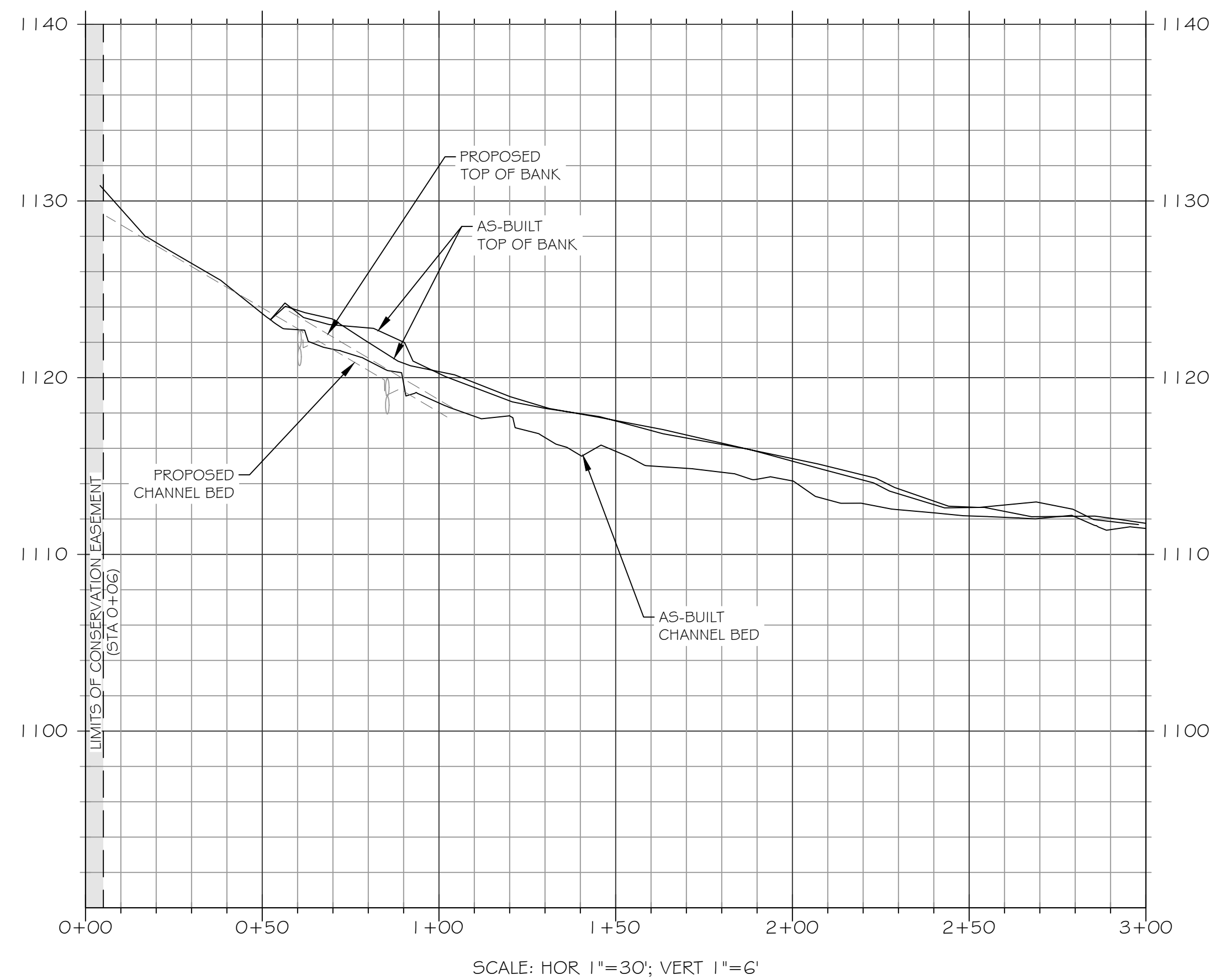
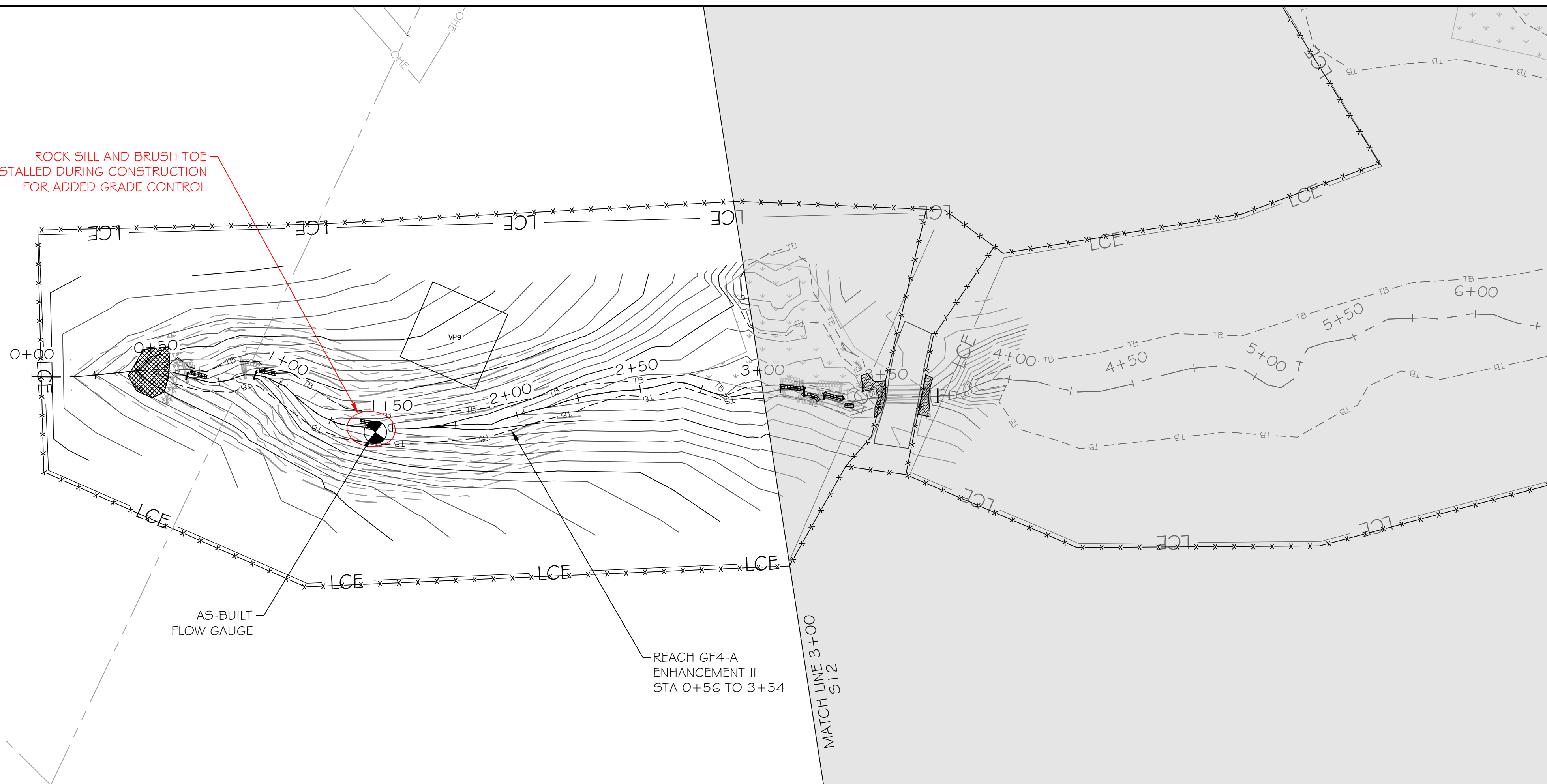
SHEET NUMBER:
S10

DMS PROJECT #: 100049

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FILE NAME: F:\Rescad\Projects\100905-Groundhog Hollow\ABRL\100905_ABRLL_GF3_N.dwg SAVED BY: Stasking

ROCK SILL AND BRUSH TOE
INSTALLED DURING CONSTRUCTION
FOR ADDED GRADE CONTROL



LEGEND

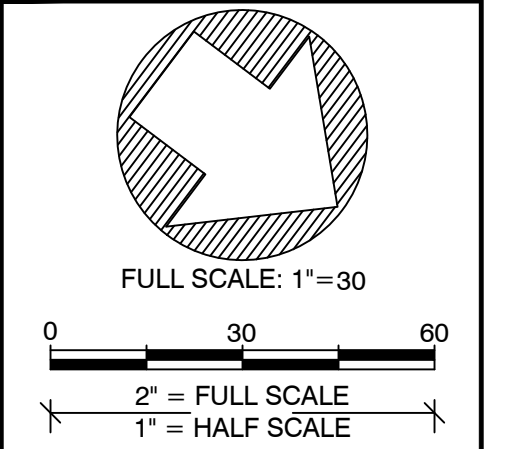
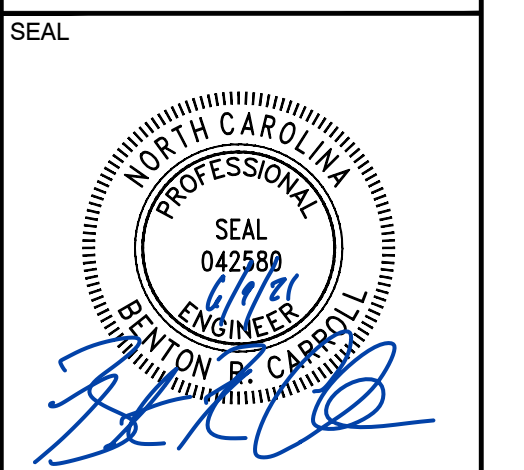
- EXISTING WETLAND
- EXISTING OVERHEAD ELECTRIC UTILITY LINE
- PROPERTY LINE
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED TOP OF BANK
- PROPOSED CHANNEL CENTERLINE
- AS-BUILT CONTOUR MAJOR
- AS-BUILT CONTOUR MINOR
- AS-BUILT TOP OF BANK
- AS-BUILT CHANNEL CENTERLINE
- BRUSH TOE PROTECTION
- LOG STRUCTURE
- ROCK SILL
- RIFFLE GRADE CONTROL
- ENGINEERED SEDIMENT PACK
- AS-BUILT BRUSH TOE
- AS-BUILT LOG STRUCTURE
- AS-BUILT ROCK SILL
- AS-BUILT RIFFLE GRADE CONTROL
- AS-BUILT ENGINEERED SEDIMENT PACK
- AS-BUILT CROSS-SECTION
- AS-BUILT STAGE RECORDER
- AS-BUILT FLOW GAUGE
- AS-BUILT VEGETATION MONITORING PLOT
- LIMITS OF RECORDED CONSERVATION EASEMENT

NOTE: ALL SIGNIFICANT CHANGES FROM THE DESIGN ARE SHOWN IN RED



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PROJECT NAME:
GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA

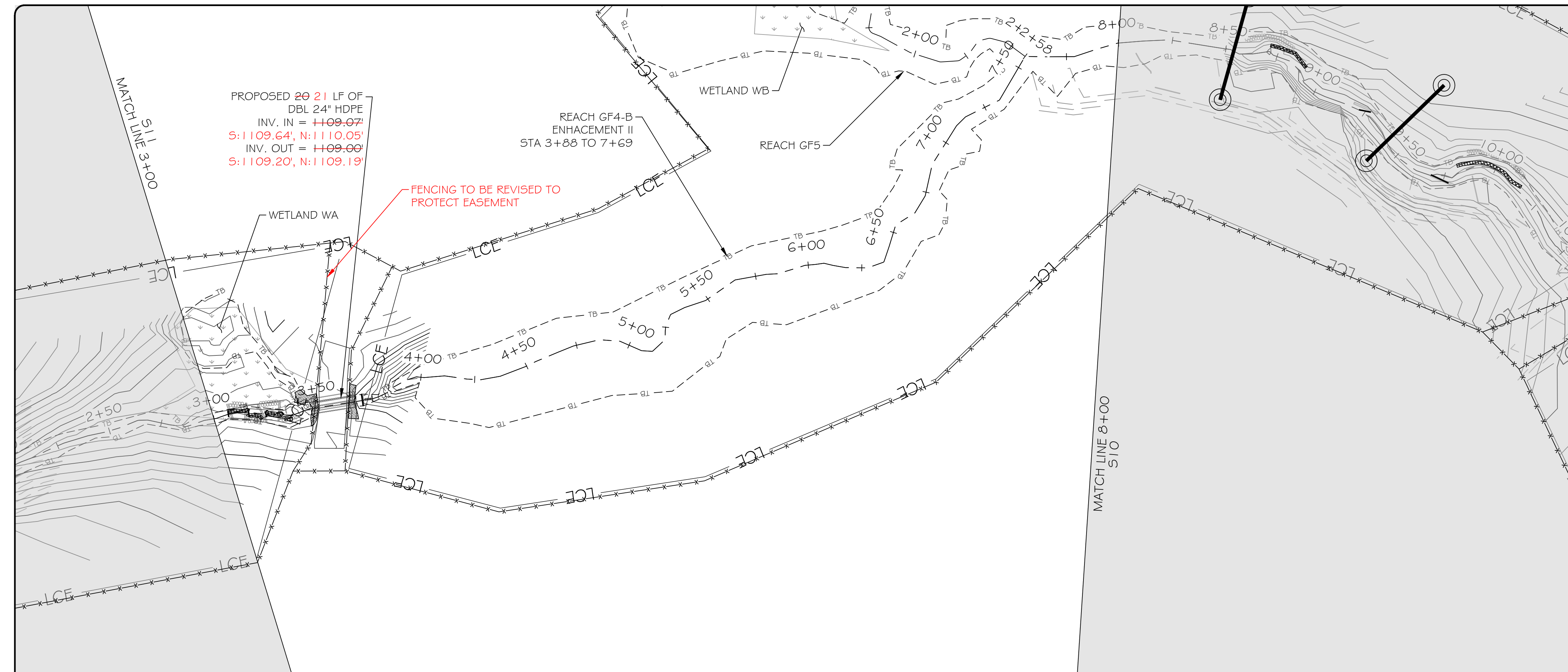
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REACH GF4

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:

S11

DMS PROJECT #: 100049



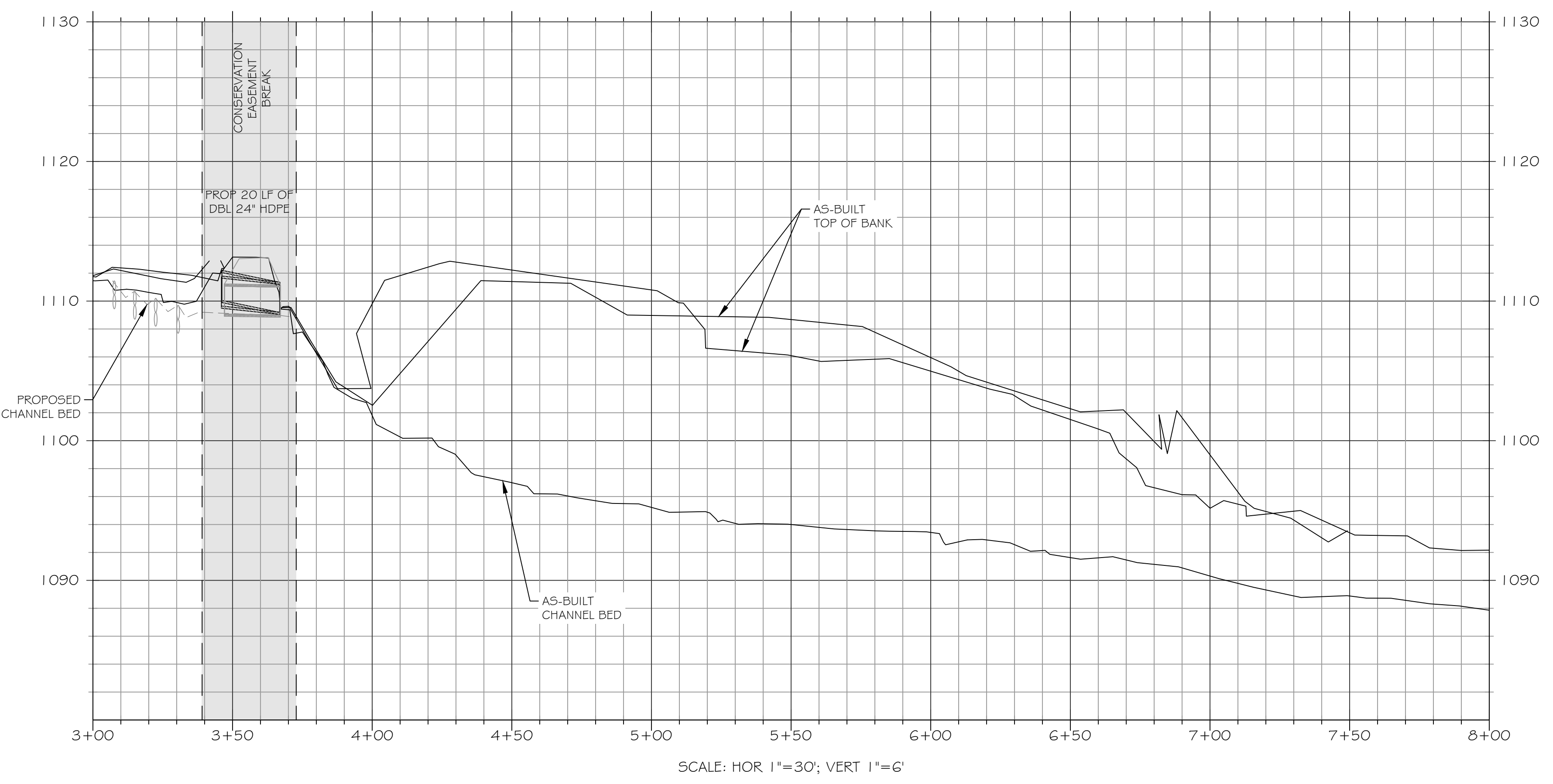
PROPOSED 20' LF OF DBL 24" HDPE
 INV. IN = 1109.07
 S: 1109.64', N: 1110.05'
 INV. OUT = 1109.09
 S: 1109.20', N: 1109.19'

FENCING TO BE REVISED TO PROTECT EASEMENT

REACH GF4-B ENHANCEMENT II
 STA 3+88 TO 7+69

REACH GF5

MATCH LINE 8+00
 S10



SCALE: HOR 1"=30'; VERT 1"=6'

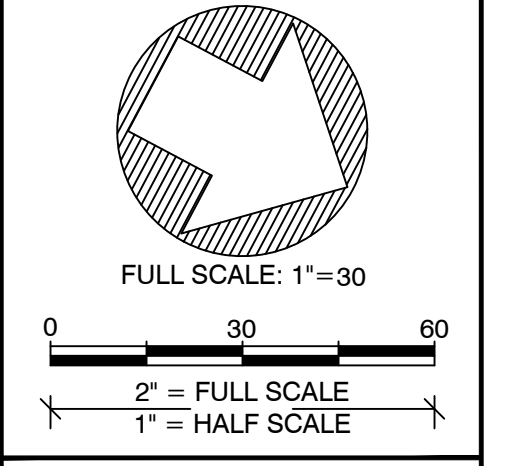
LEGEND	
EXISTING WETLAND	
EXISTING OVERHEAD ELECTRIC UTILITY LINE	
PROPERTY LINE	
PROPOSED CONTOUR MAJOR	
PROPOSED CONTOUR MINOR	
PROPOSED TOP OF BANK	
PROPOSED CHANNEL CENTERLINE	
AS-BUILT CONTOUR MAJOR	
AS-BUILT CONTOUR MINOR	
AS-BUILT TOP OF BANK	
AS-BUILT CHANNEL CENTERLINE	
BRUSH TOE PROTECTION	
LOG STRUCTURE	
ROCK SILL	
RIFFLE GRADE CONTROL	
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AS-BUILT CROSS-SECTION	
AS-BUILT STAGE RECORDER	
AS-BUILT FLOW GAUGE	
AS-BUILT VEGETATION MONITORING PLOT	
LIMITS OF RECORDED CONSERVATION EASEMENT	

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PROJECT NAME:
 GROUNDHOG HOLLOW RECORD DRAWINGS
 ALEXANDER COUNTY, NORTH CAROLINA

DRAWING TITLE:
 REACH GF4

PROJECT NUMBER: 100905
 PROJECT MANAGER: BPB
 DESIGNED: BRC
 DRAWN: SCF
 CHECKED: BRC

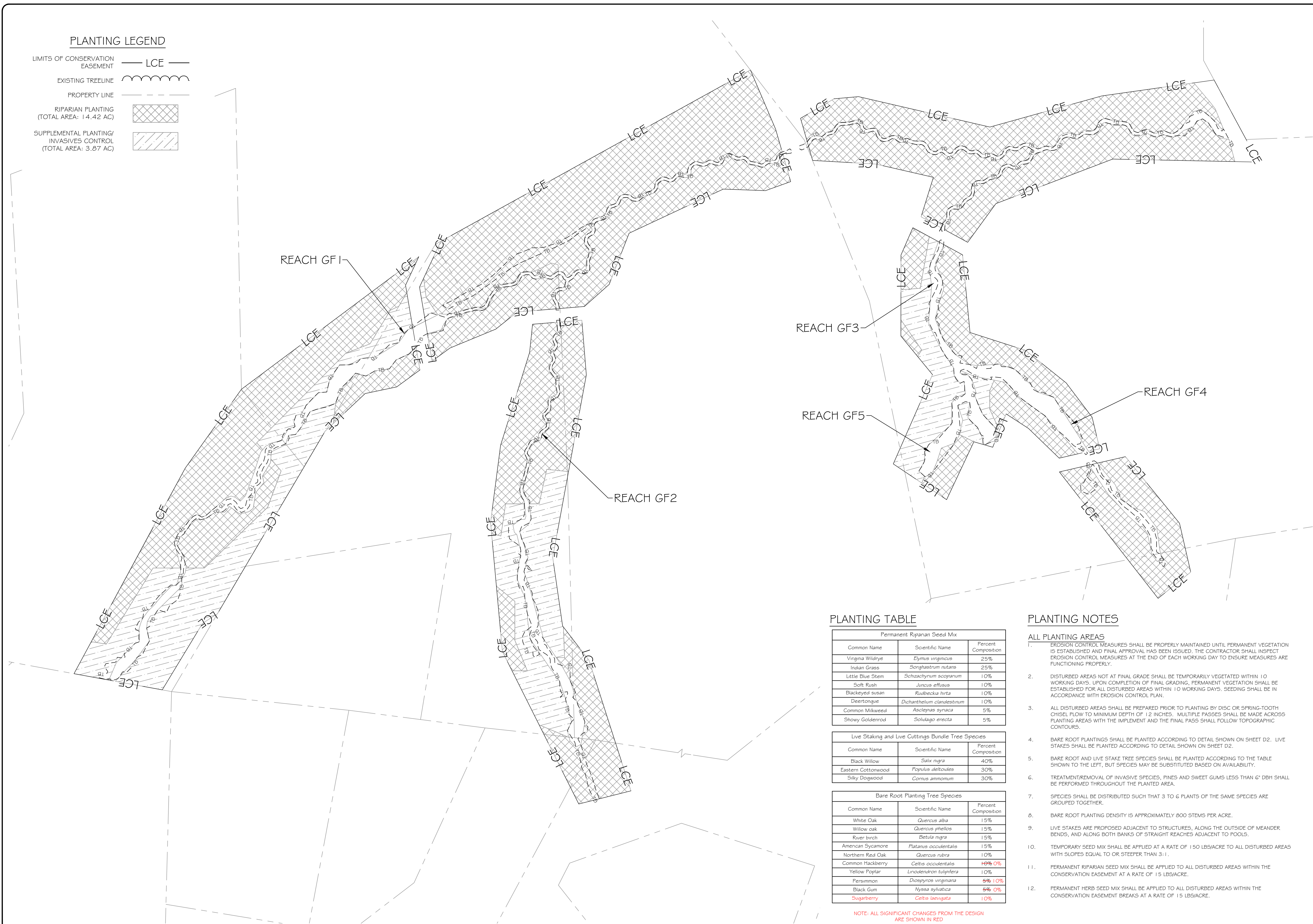
SHEET NUMBER:
S12

DMS PROJECT #: 100049

FILE NAME: F:\Rescad\Projects\100905-Groundhog Hollow\ABRL\100905_ABR_L_GF3_N.dwg SAVED BY: Stasking

PLANTING LEGEND

- LIMITS OF CONSERVATION EASEMENT — LCE —
- EXISTING TREELINE
- PROPERTY LINE
- RIPARIAN PLANTING (TOTAL AREA: 14.42 AC)
- SUPPLEMENTAL PLANTING/INVASIVES CONTROL (TOTAL AREA: 3.87 AC)



PLANTING TABLE

Permanent Riparian Seed Mix		
Common Name	Scientific Name	Percent Composition
Virginia Wildrye	<i>Elymus virginicus</i>	25%
Indian Grass	<i>Sorghastrum nutans</i>	25%
Little Blue Stem	<i>Schizachyrium scoparium</i>	10%
Soft Rush	<i>Juncus effusus</i>	10%
Blackeyed susan	<i>Rudbeckia hirta</i>	10%
Deertongue	<i>Dichanthelium clandestinum</i>	10%
Common Milkweed	<i>Asclepias syriaca</i>	5%
Showy Goldenrod	<i>Solidago erecta</i>	5%

Live Staking and Live Cuttings Bundle Tree Species		
Common Name	Scientific Name	Percent Composition
Black Willow	<i>Salix nigra</i>	40%
Eastern Cottonwood	<i>Populus deltoides</i>	30%
Silky Dogwood	<i>Cornus amomium</i>	30%

Bare Root Planting Tree Species		
Common Name	Scientific Name	Percent Composition
White Oak	<i>Quercus alba</i>	15%
Willow oak	<i>Quercus phellos</i>	15%
River birch	<i>Betula nigra</i>	15%
American Sycamore	<i>Platanus occidentalis</i>	15%
Northern Red Oak	<i>Quercus rubra</i>	10%
Common Hackberry	<i>Celtis occidentalis</i>	10% 0%
Yellow Poplar	<i>Liriodendron tulipifera</i>	10%
Persimmon	<i>Diospyros virginiana</i>	5% 10%
Black Gum	<i>Nyssa sylvatica</i>	5% 0%
Sugarberry	<i>Celtis laevigata</i>	10%

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PLANTING NOTES

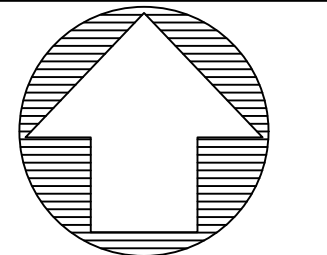
- ALL PLANTING AREAS**
- EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED AND FINAL APPROVAL HAS BEEN ISSUED. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
 - DISTURBED AREAS NOT AT FINAL GRADE SHALL BE TEMPORARILY VEGETATED WITHIN 10 WORKING DAYS. UPON COMPLETION OF FINAL GRADING, PERMANENT VEGETATION SHALL BE ESTABLISHED FOR ALL DISTURBED AREAS WITHIN 10 WORKING DAYS. SEEDING SHALL BE IN ACCORDANCE WITH EROSION CONTROL PLAN.
 - ALL DISTURBED AREAS SHALL BE PREPARED PRIOR TO PLANTING BY DISC OR SPRING-TOOTH CHISEL PLOW TO MINIMUM DEPTH OF 12 INCHES. MULTIPLE PASSES SHALL BE MADE ACROSS PLANTING AREAS WITH THE IMPLEMENT AND THE FINAL PASS SHALL FOLLOW TOPOGRAPHIC CONTOURS.
 - BARE ROOT PLANTINGS SHALL BE PLANTED ACCORDING TO DETAIL SHOWN ON SHEET D2. LIVE STAKES SHALL BE PLANTED ACCORDING TO DETAIL SHOWN ON SHEET D2.
 - BARE ROOT AND LIVE STAKE TREE SPECIES SHALL BE PLANTED ACCORDING TO THE TABLE SHOWN TO THE LEFT, BUT SPECIES MAY BE SUBSTITUTED BASED ON AVAILABILITY.
 - TREATMENT/REMOVAL OF INVASIVE SPECIES, PINES AND SWEET GUMS LESS THAN 6" DBH SHALL BE PERFORMED THROUGHOUT THE PLANTED AREA.
 - SPECIES SHALL BE DISTRIBUTED SUCH THAT 3 TO 6 PLANTS OF THE SAME SPECIES ARE GROUPED TOGETHER.
 - BARE ROOT PLANTING DENSITY IS APPROXIMATELY 800 STEMS PER ACRE.
 - LIVE STAKES ARE PROPOSED ADJACENT TO STRUCTURES, ALONG THE OUTSIDE OF MEANDER BENDS, AND ALONG BOTH BANKS OF STRAIGHT REACHES ADJACENT TO POOLS.
 - TEMPORARY SEED MIX SHALL BE APPLIED AT A RATE OF 150 LBS/ACRE TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR STEEPER THAN 3:1.
 - PERMANENT RIPARIAN SEED MIX SHALL BE APPLIED TO ALL DISTURBED AREAS WITHIN THE CONSERVATION EASEMENT AT A RATE OF 15 LBS/ACRE.
 - PERMANENT HERB SEED MIX SHALL BE APPLIED TO ALL DISTURBED AREAS WITHIN THE CONSERVATION EASEMENT BREAKS AT A RATE OF 15 LBS/ACRE.



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SEAL



FULL SCALE: 1"=100
0 100 200
2" = FULL SCALE
1" = HALF SCALE

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PROJECT NAME:
**GROUNDHOG HOLLOW RECORD DRAWINGS
ALEXANDER COUNTY, NORTH CAROLINA**

DRAWING TITLE:
PLANTING PLAN

PROJECT NUMBER: 100905
PROJECT MANAGER: BPB
DESIGNED: BRC
DRAWN: SCF
CHECKED: BRC

SHEET NUMBER:
P1

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