

VICINITY MAP
NOT TO SCALE

I, JAMES R. WATSON, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL (2 SIGMA) TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THE HORIZONTAL ACCURACY IS 0.10'; THAT THE VERTICAL ACCURACY IS 0.15'; AND THAT THE ORIGINAL DATA WAS OBTAINED ON 3/20/2019; THAT THE SURVEY WAS COMPLETED ON 3/29/2020; THAT CONTOURS SHOWN HEREON MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD 83(2011); AND ALL ELEVATIONS ARE BASED ON NAVD 88.

WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 29TH DAY OF MARCH, A.D., 2020.

James R. Watson
L-4712



THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS GNSS SURVEY:

CLASS OF SURVEY: A
POSITIONAL ACCURACY: 0.10'
TYPE OF GPS FIELD PROCEDURE: RTK
DATES OF SURVEY: 3/20/2019 & 3/25/2020
DATUM / EPOCH: NAD 83(2011)
PUBLISHED / FIXED CONTROL USED: OPUS SOLUTION
GEOID MODEL: GEOID12
COMBINED GRID FACTOR: 0.99993451
UNITS: U.S. SURVEY FEET

NOTES:
1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
2. THE HORIZONTAL DATUM IS NAD 83(2011) AND THE VERTICAL DATUM IS NAVD 88.
3. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES.
4. THE PURPOSE OF THIS MAP IS TO SHOW POST CONSTRUCTION AS-BUILT CONDITIONS OF THE STREAM RESTORATION AND MAY NOT SHOW ALL UTILITIES, STRUCTURES, AND BOUNDARIES.
5. NO PROPERTY LINES WERE SURVEYED DURING THIS SURVEY. ALL CONSERVATION EASEMENTS, PROPERTY LINES, AND ADJOINING PROPERTY OWNERS ARE SHOWN BY PREVIOUS SURVEYS BY MATRIX EAST, PLLC AS RECORDED IN PLAT BOOK 13, PAGE 59 IN THE DAVIE COUNTY REGISTRY.
6. THE LOG STRUCTURE SHOWN AT STATION 3+58-3+66 OF REACH DS2 AND THE CONSTRUCTED RIFFLE GRADE CONTROL SHOWN AT STATION 11+95 OF REACH DS2 WERE COMPLETED AFTER THIS SURVEY AND ARE SHOWN BY INFORMATION PROVIDED BY RESOURCE ENVIRONMENTAL SOLUTIONS, LLC.

CATBIRD SITE

DAVIE COUNTY, NORTH CAROLINA

YADKIN 01 RIVER BASIN:
HUC 03040101
NC DMS PROJECT #100022

AS-BUILT SURVEY

PROJECT COORDINATES:

LATITUDE: 36.03053° N
LONGITUDE: 80.49958° W

PROJECT DIRECTORY

DESIGNER: RESOURCE ENVIRONMENTAL SOLUTIONS, LLC 3600 GLENWOOD AV., SUITE 100 RALEIGH, NC 27612 (919)209-1061	MONITORING PERFORMERS: RESOURCE ENVIRONMENTAL SOLUTIONS, LLC 3600 GLENWOOD AV., SUITE 100 RALEIGH, NC 27612 (919)209-1061
CONSTRUCTION CONTRACTOR: KBS EARTHWORKS, INC. 5616 COBLE CHURCH RD. JULIAN, NC 27283 (336)362-0289	SURVEYING: MATRIX EAST, PLLC 906 N. QUEEN ST., SUITE A KINSTON, NC 28501 (252)522-2500

SHEET INDEX

COVER SHEET	S1
STREAM BASELINE OVERVIEW	S2
STREAM MONITORING OVERVIEW	S3
STREAM BASELINE AS-BUILTS	S4 THROUGH S7

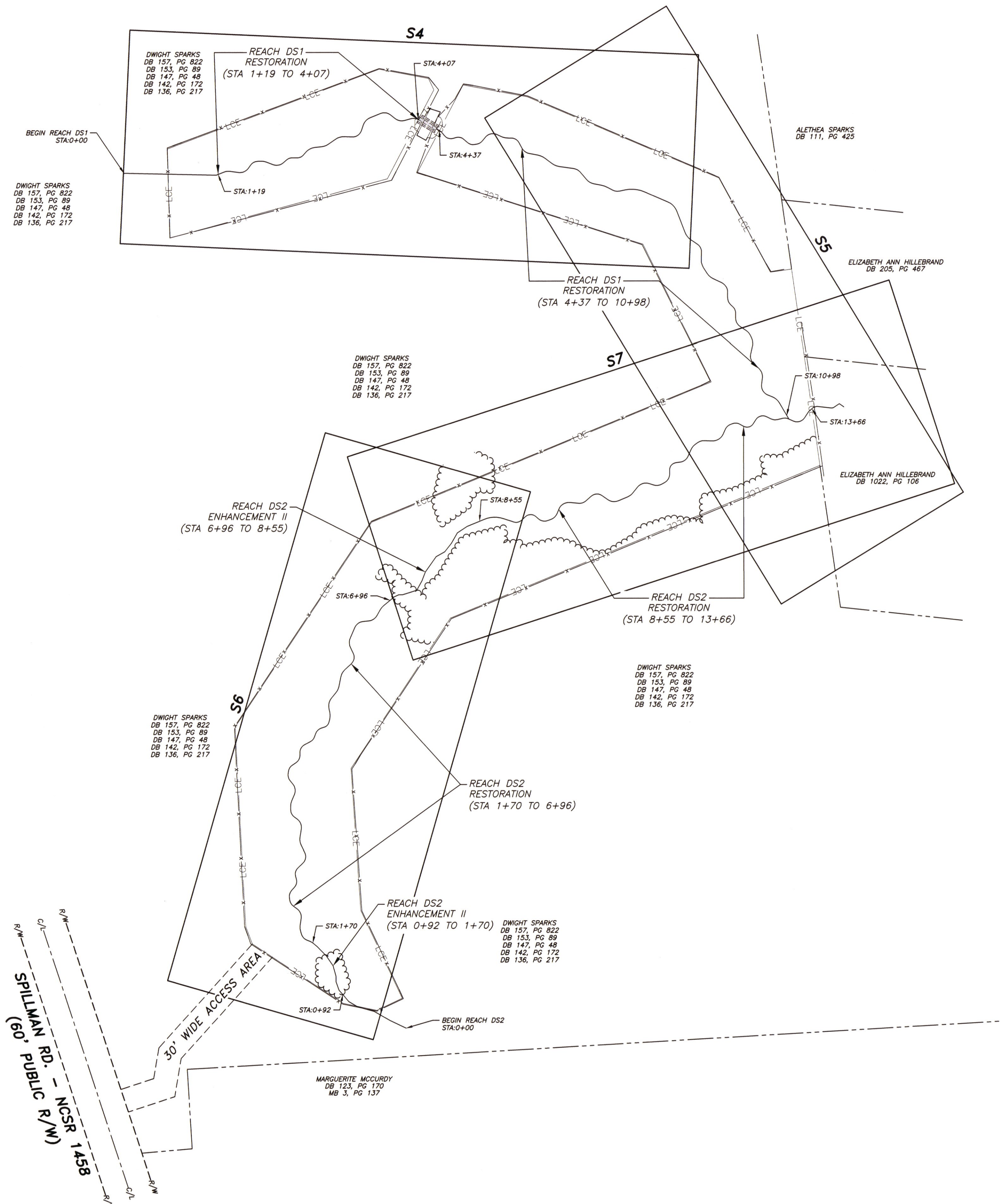
- LEGEND**
- C/L = CENTERLINE
 - R/W = RIGHT OF WAY
 - RCP = REINFORCED CONCRETE PIPE
 - XS = CROSS-SECTION
 - VP = VEGETATION PLOT
 - = LOG STRUCTURE
 - = ROCK STRUCTURE
 - ⊙ = RAIN GAUGE
 - ⊙ = STAGE RECORDER
 - ⊙ = FLOW GAUGE
 - * = SEDIMENT TRAP
 - = BRUSH TOE
 - = CONSTRUCTED RIFFLE GRADE CONTROL
 - = GRAVEL PATH / CROSSING
 - = RIP RAP
 - = CONSERVATION EASEMENT LINE
 - = ADJOINER BOUNDARY LINE
 - = WOODLINE
 - x—x— = WIRE FENCE

RESOURCE ENVIRONMENTAL SOLUTIONS, LLC
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DAVIE COUNTY, N.C.

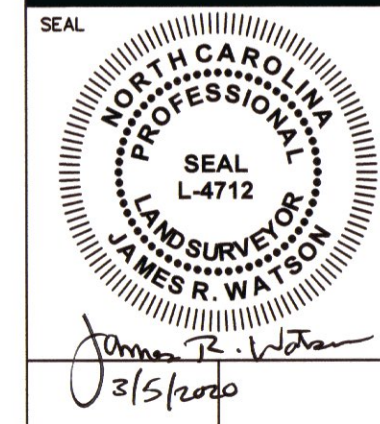
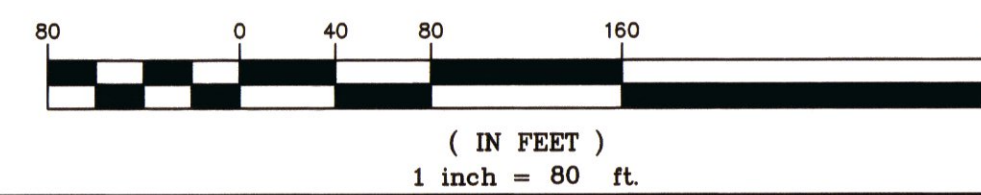
STREAM AS BUILT SURVEY COVER



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EMAIL: surveyor@matrixeast.net



REACH	MITIGATION TYPE	LENGTH IN EASEMENT
DS1	RESTORATION	949'
DS2	ENHANCEMENT II	248'
DS2	RESTORATION	1037'
TOTAL		2234'

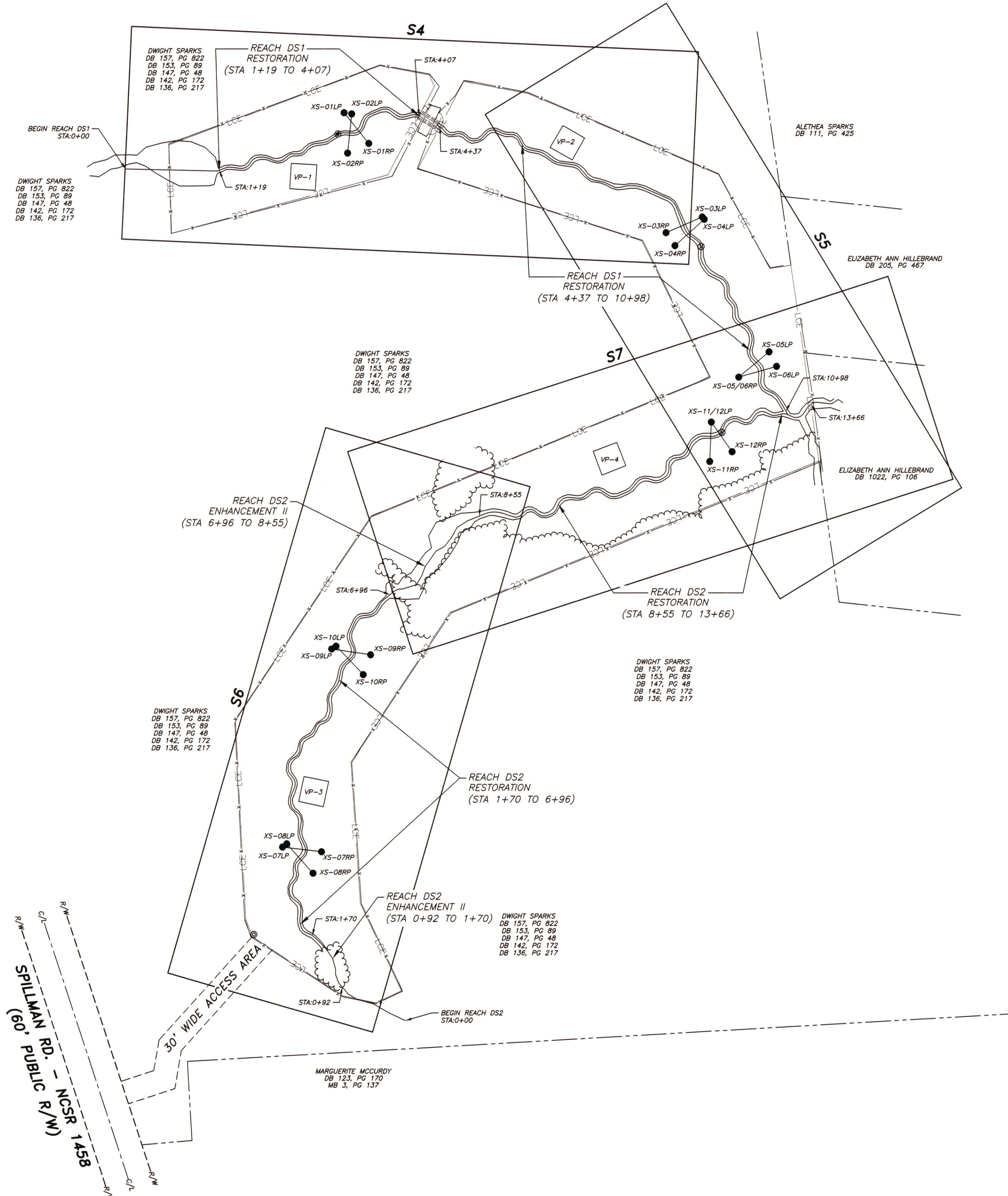
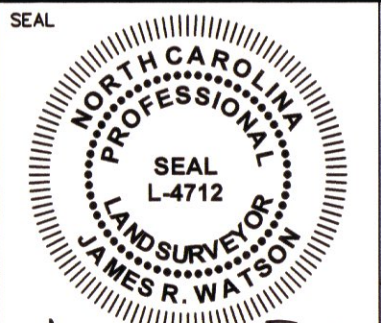


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STREAM AS BUILT SURVEY
STREAM BASELINE OVERVIEW

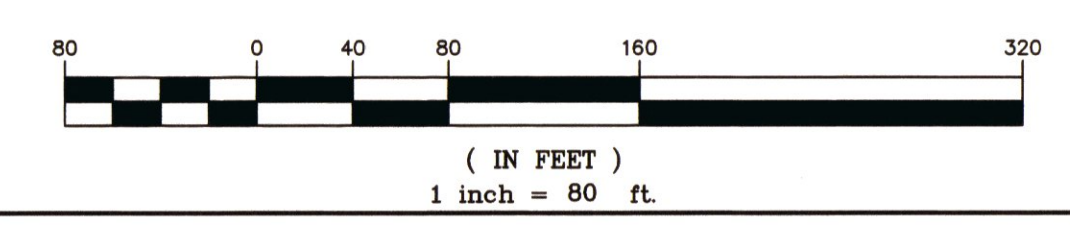


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BASELINE MONITORING CROSS SECTION CONTROL

DESCRIPTION	NORTHING	EASTING	ELEVATION
XS01LP	833,725.3346'	1,556,114.6153'	758.12'
XS01RP	833,686.4321'	1,556,146.0396'	758.38'
XS02LP	833,723.8414'	1,556,124.2613'	757.06'
XS02RP	833,674.0965'	1,556,119.1703'	759.38'
XS03LP	833,593.0143'	1,556,569.4434'	745.14'
XS03RP	833,573.1356'	1,556,523.6252'	746.03'
XS04LP	833,590.0830'	1,556,572.0789'	745.00'
XS04RP	833,556.6516'	1,556,534.9969'	745.47'
XS05/06RP	833,390.3062'	1,556,616.1018'	738.86'
XS05LP	833,422.3518'	1,556,654.5111'	738.43'
XS06LP	833,403.9774'	1,556,664.0692'	737.91'
XS07LP	832,794.4884'	1,556,038.0070'	777.90'
XS07RP	832,788.5457'	1,556,087.4806'	781.47'
XS08LP	832,798.3723'	1,556,043.5277'	777.25'
XS08RP	832,761.2624'	1,556,076.7099'	781.90'
XS09LP	833,045.5389'	1,556,100.6489'	767.53'
XS09RP	833,038.1462'	1,556,149.9647'	768.29'
XS10LP	833,049.1805'	1,556,106.1897'	766.58'
XS10RP	833,013.0793'	1,556,140.5960'	769.10'
XS11/12LP	833,333.3016'	1,556,581.6760'	738.71'
XS11RP	833,283.3297'	1,556,579.9321'	737.99'
XS12RP	833,295.6926'	1,556,608.1963'	737.74'



STREAM AS BUILT SURVEY
MONITORING OVERVIEW

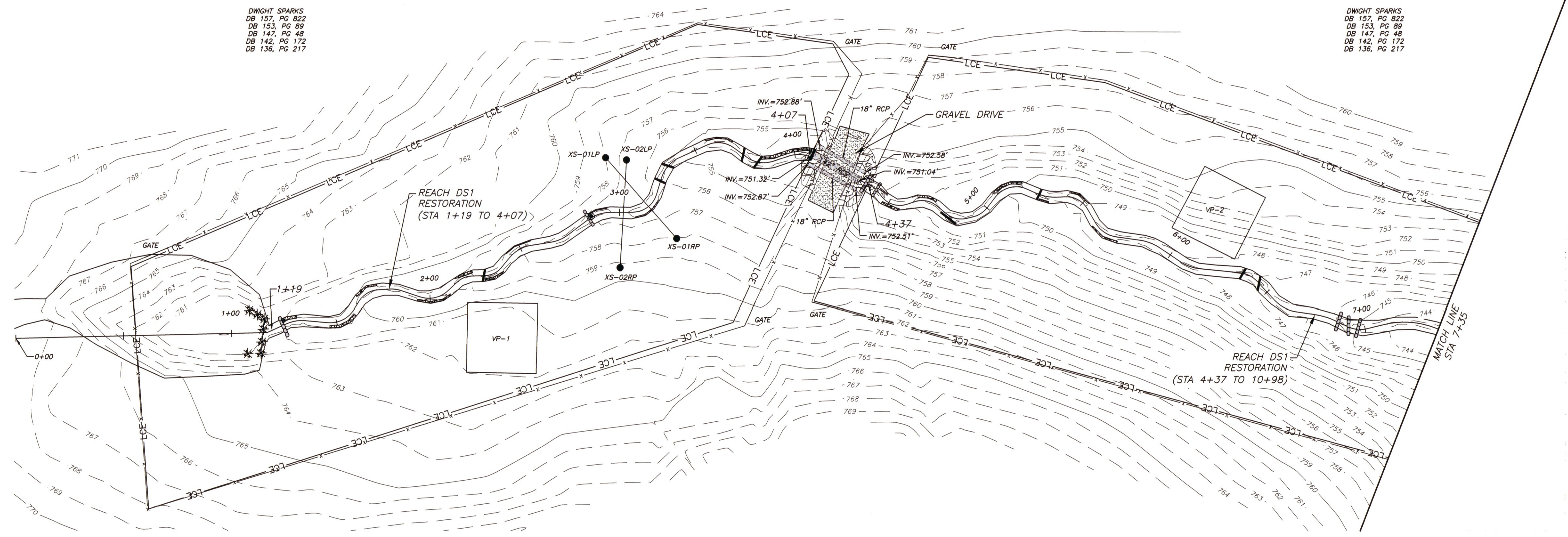
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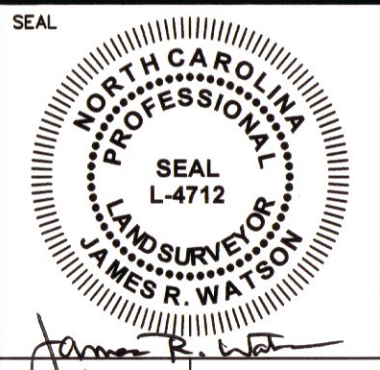
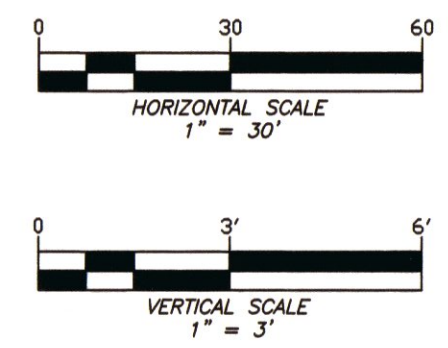
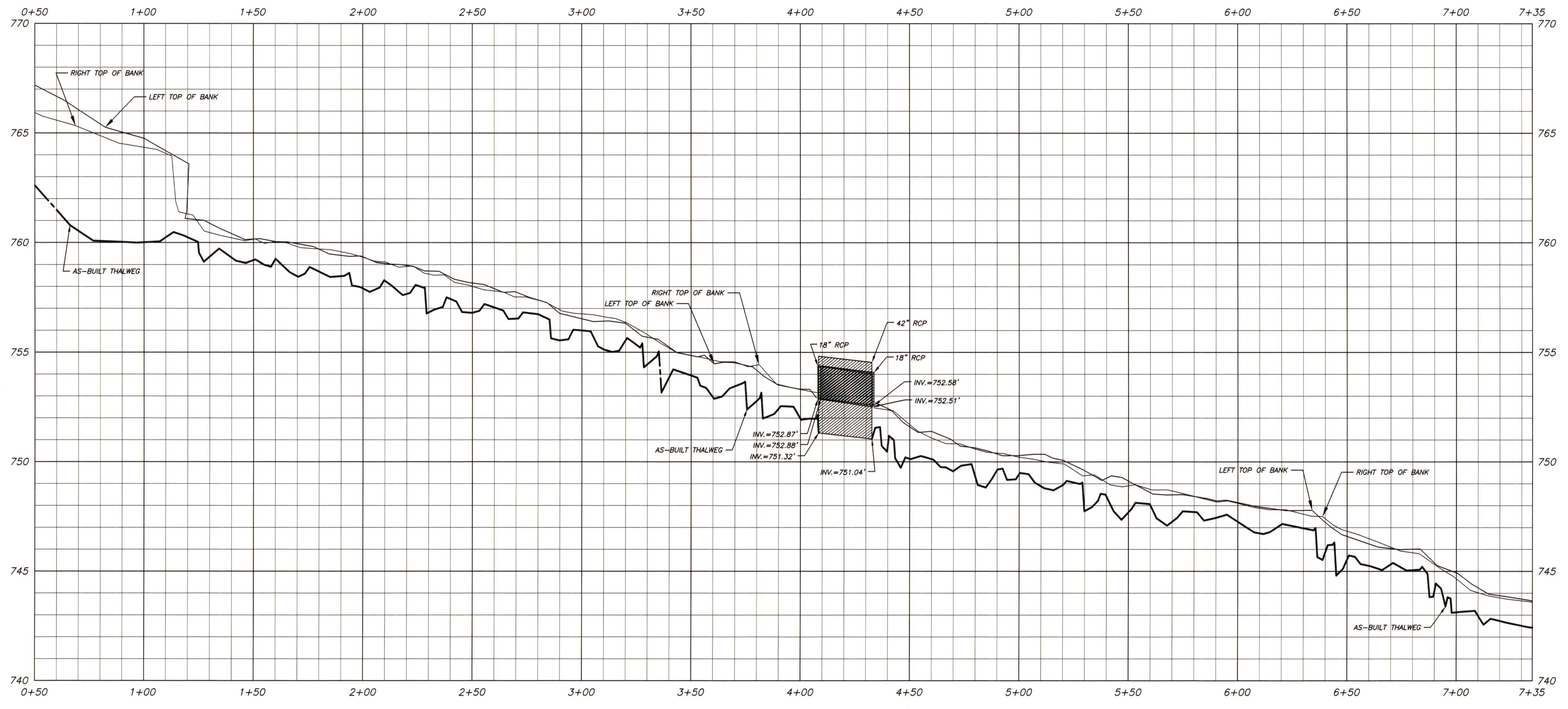
DRAWN BY JRW	DATE 3/9/2020	SCALE 1" = 80'
PROJECT NO. 20170064		
DRAWING NAME CATBIRD AS-BUILT.DWG		

NOV 8/2021



DWIGHT SPARKS
DB 157, PG 822
DB 153, PG 89
DB 147, PG 48
DB 142, PG 172
DB 136, PG 217

DWIGHT SPARKS
DB 157, PG 822
DB 153, PG 89
DB 147, PG 48
DB 142, PG 172
DB 136, PG 217



DRAWING NO.
S4

SHEET No.
4 OF 7

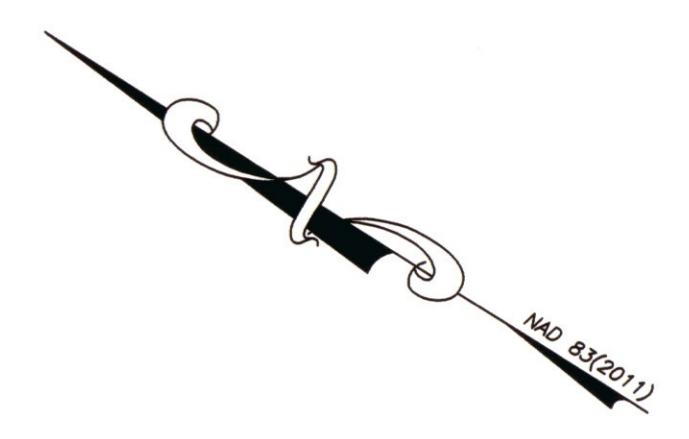
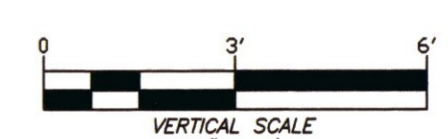
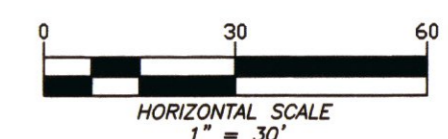
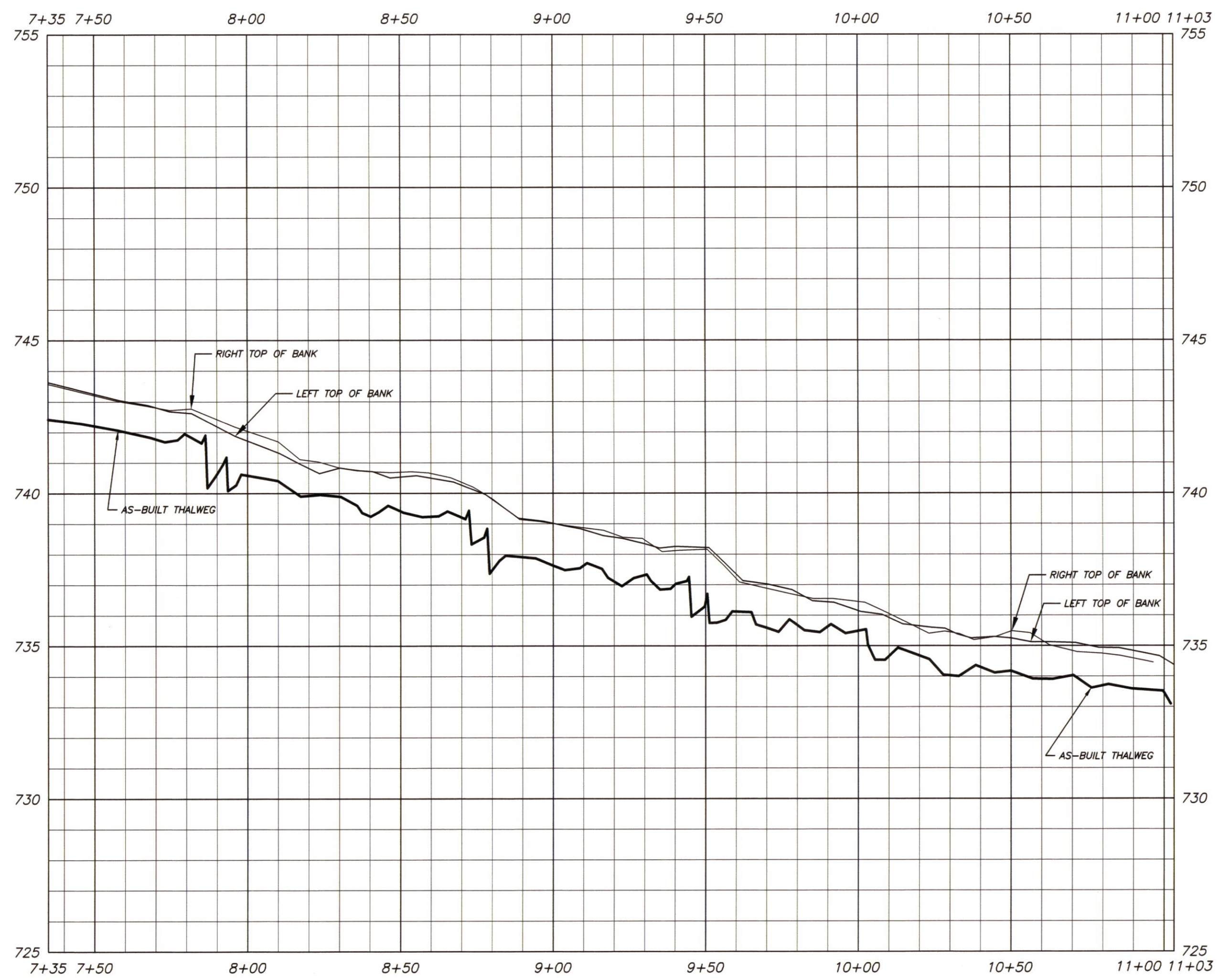
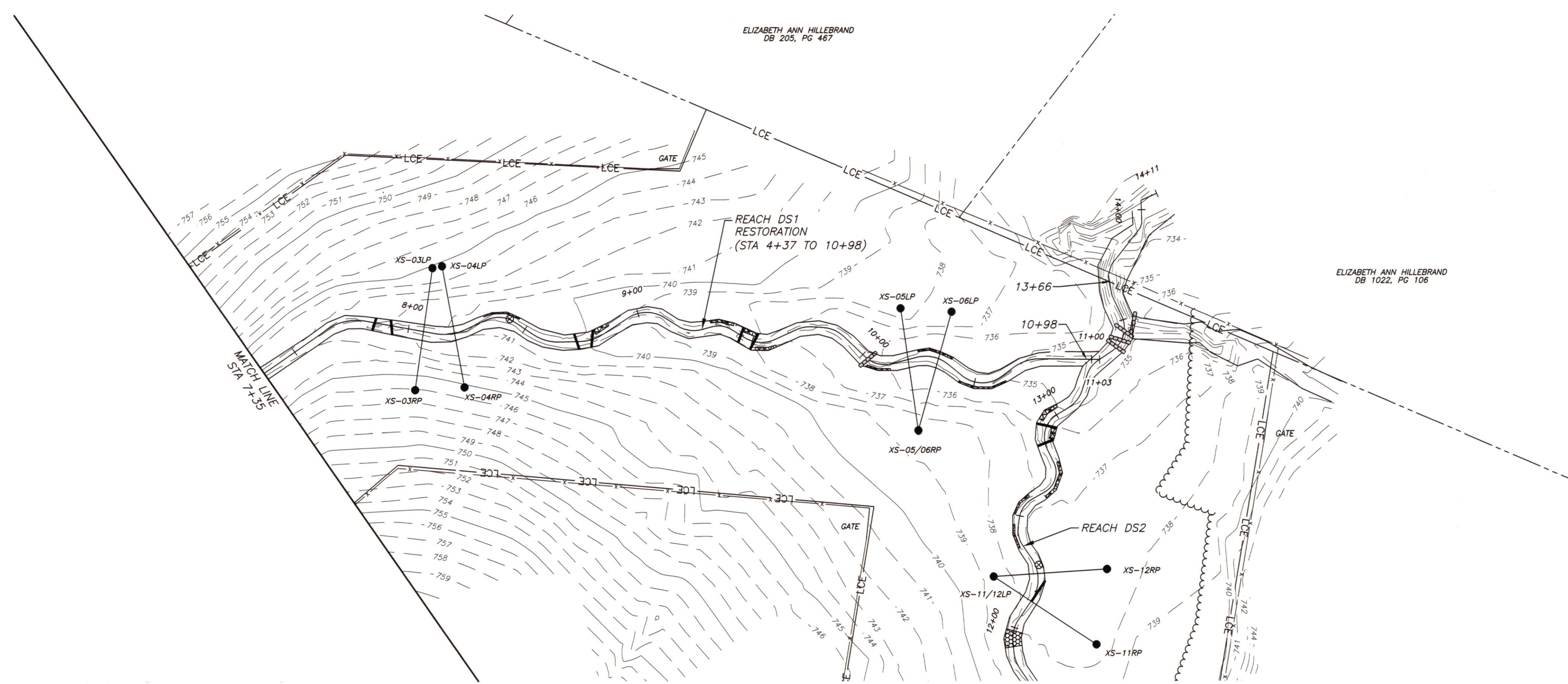
RESOURCE ENVIRONMENTAL SOLUTIONS, LLC
CATBIRD SITE
DAVIE COUNTY, N.C.

STREAM AS BUILT SURVEY
REACH DS1 PLAN & PROFILE (STA 0+50 - 7+35)

MATRIX EAST, PLLC

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DRAWN BY JRW	DATE 3/9/2020	SCALE 1" = 30'
PROJECT NO. 20170064		
DRAWING NAME CATBIRD AS-BUILT.DWG		



SEAL
NORTH CAROLINA
PROFESSIONAL
LAND SURVEYOR
L-4712
JAMES R. WATSON

DRAWING NO.
S5

SHEET No.
5 OF 7

STREAM AS BUILT SURVEY
REACH DS1 PLAN & PROFILE (STA 7+35 - 11+03)

RESOURCE ENVIRONMENTAL SOLUTIONS, LLC

CATBIRD SITE

DAVIE COUNTY, N.C.

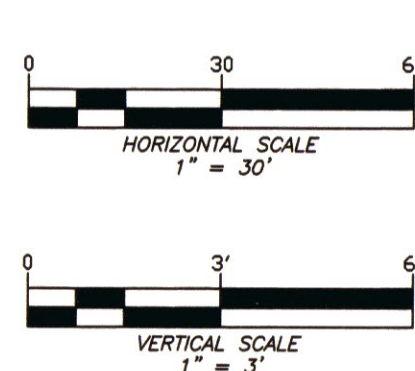
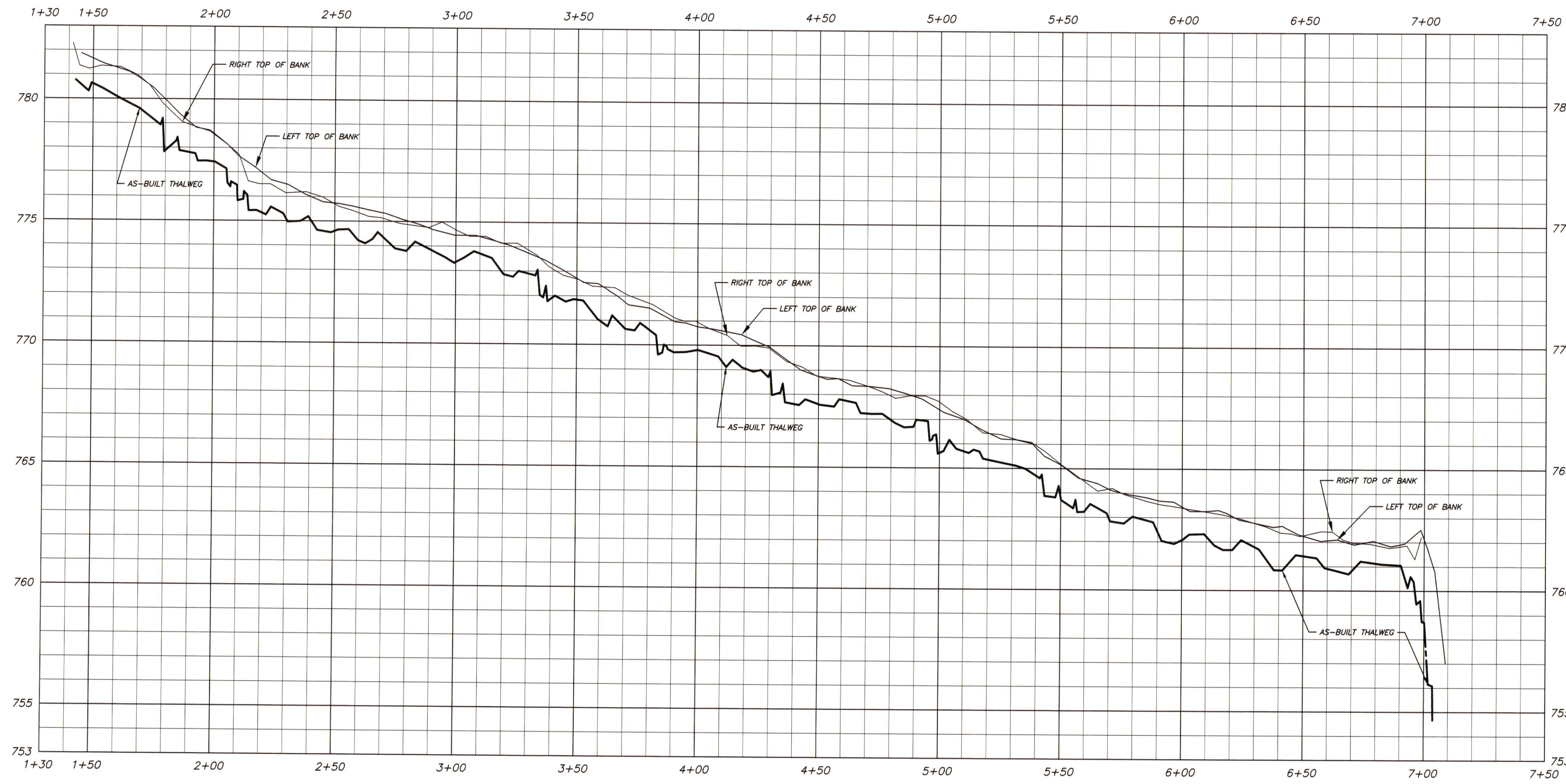
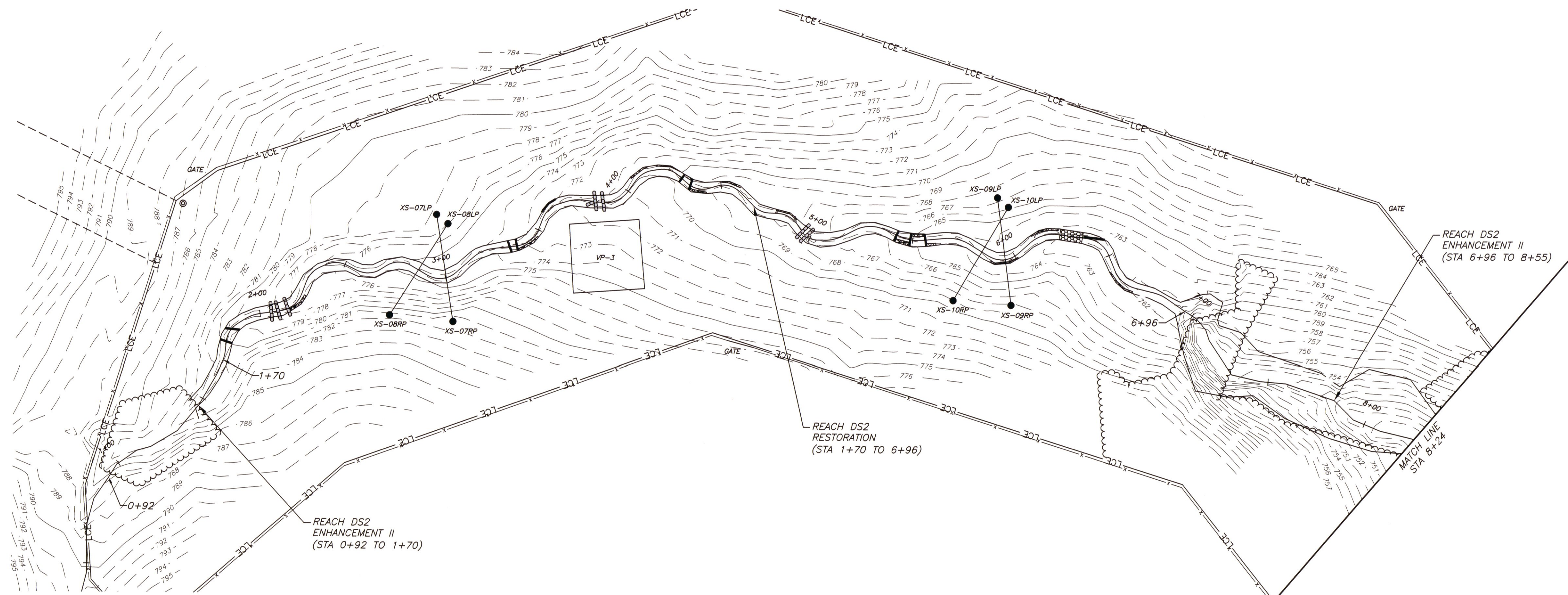
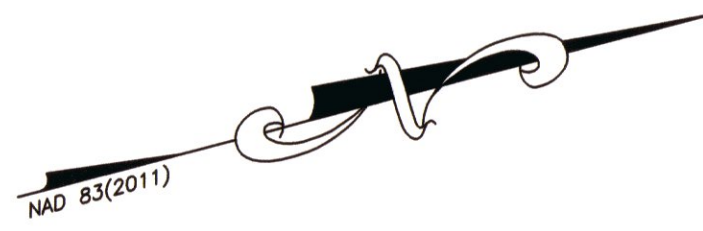
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SCALE: 1" = 30'

PROJECT NO.: 20170064

DRAWING NAME: CATBIRD AS-BUILT.DWG



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 PROFESSIONAL
 LAND SURVEYOR
 L-4712
 JAMES R. WATSON
 3/5/2020

DRAWING NO.
S6

SHEET No.
 6 OF 7

**STREAM AS BUILT SURVEY
 REACH DS2 PLAN & PROFILE (STA 1+30 - 7+50)**

RESOURCE ENVIRONMENTAL SOLUTIONS, LLC

CATBIRD SITE

DAVIE COUNTY, N.C.

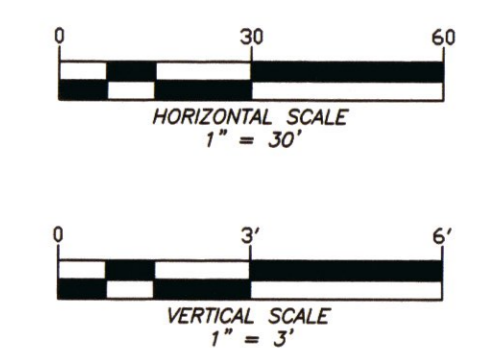
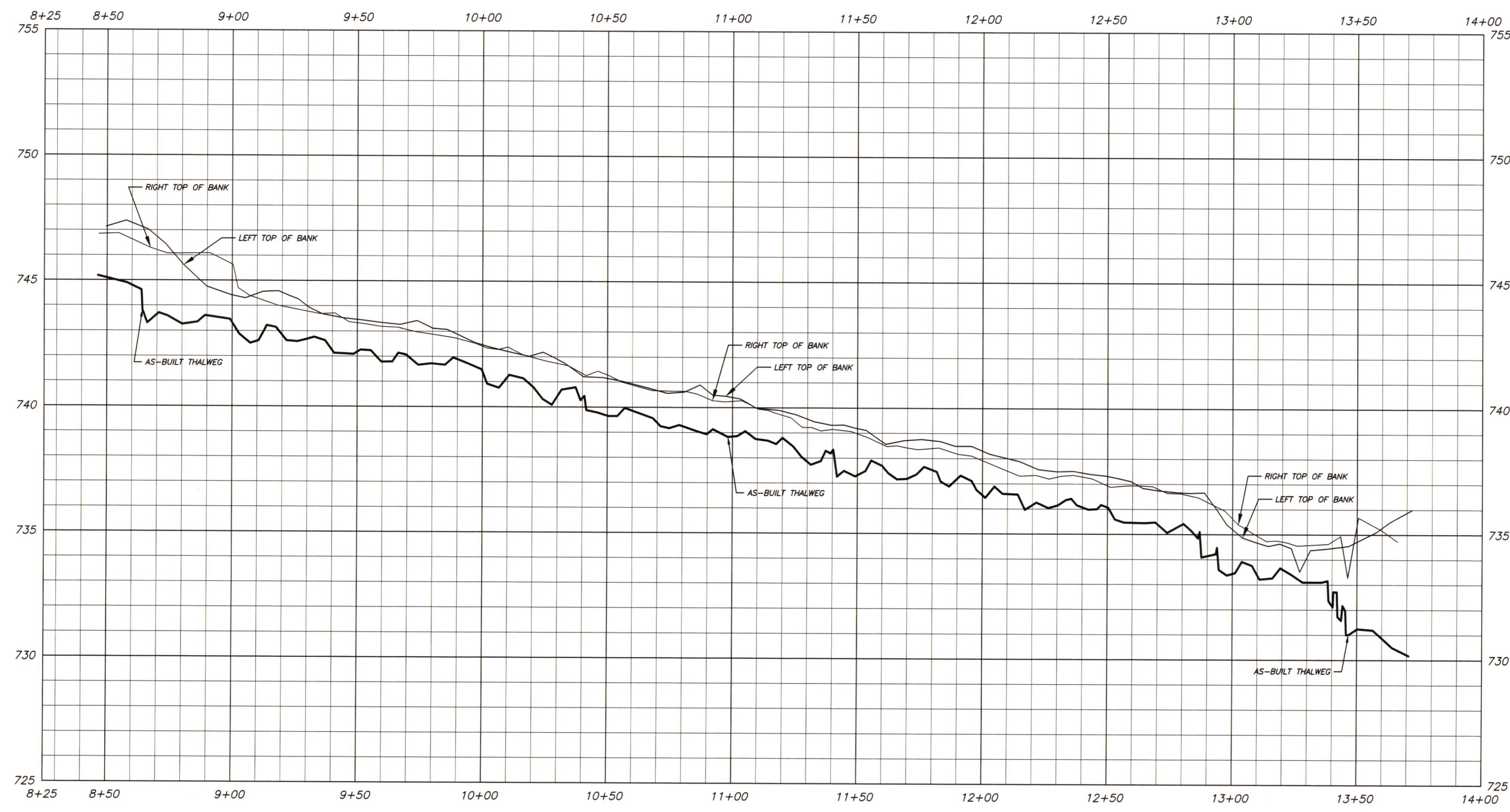
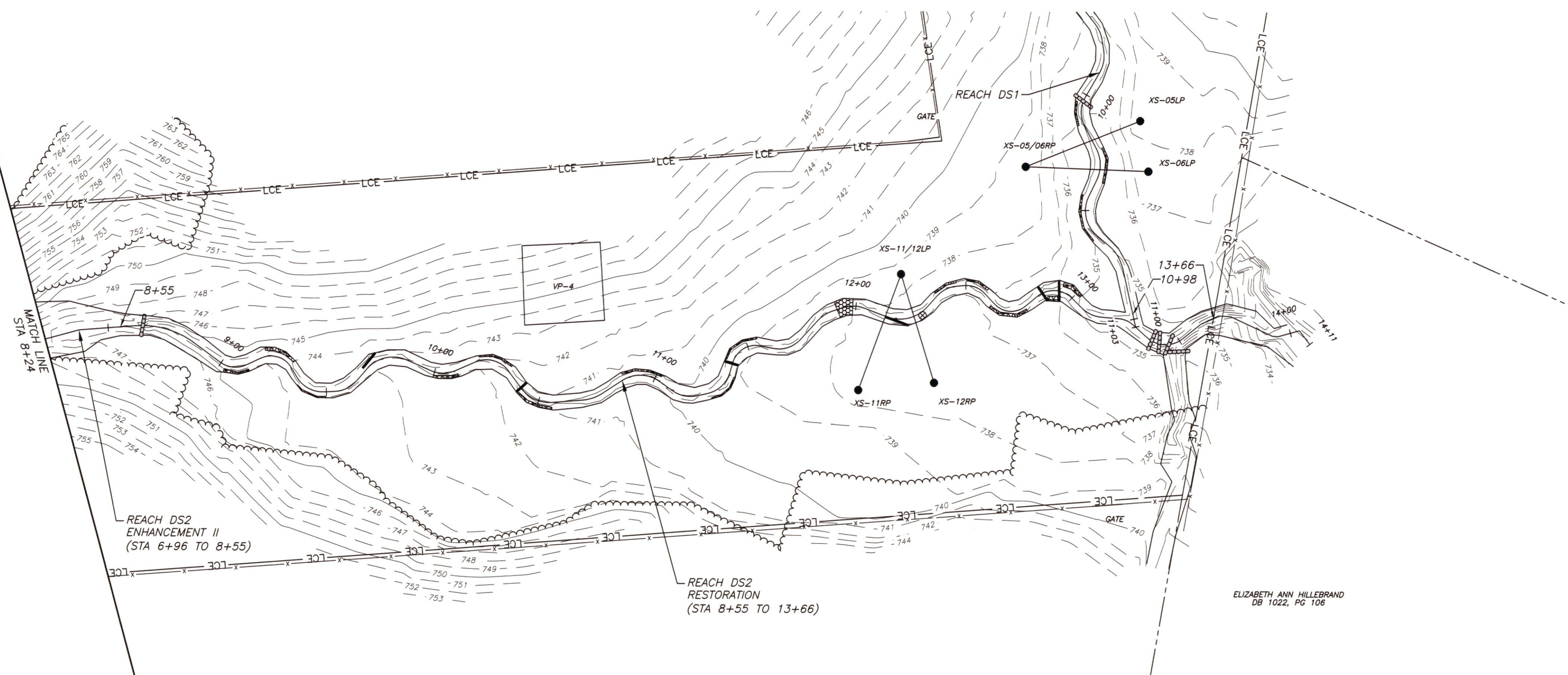
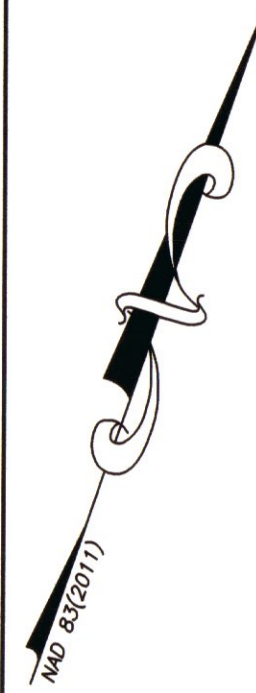
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DRAWN BY: JRW DATE: 3/9/2020 SCALE: 1" = 30'

PROJECT NO.: 20170064

DRAWING NAME: CATBIRD AS-BUILT.DWG




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 L-4712
 JAMES H. WATSON
 3/5/2020

DRAWING NO.
S7

SHEET No.
 7 OF 7

RESOURCE ENVIRONMENTAL SOLUTIONS, LLC
CATBIRD SITE
DAVIE COUNTY, N.C.

STREAM AS BUILT SURVEY
 REACH DS2 PLAN & PROFILE (STA 8+25 - 14+00)


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DRAWING NAME CATBIRD AS-BUILT.DWG		