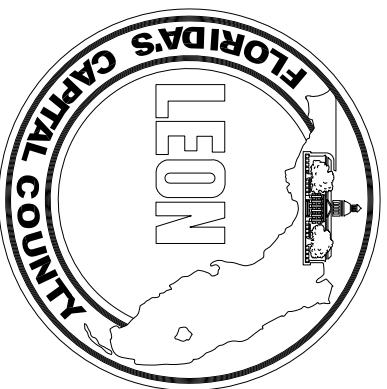


# SOUTHBROOK FLOODPLAIN ENHANCEMENT

**Commissioners:**

Bill Proctor  
District 1  
Jane G. Sauls  
District 2  
John E. Dailley  
District 3  
Bryan Dealoge  
District 4  
Kristin Dezler  
District 5  
Vice Chairman  
Mary Ann Lindley  
At-Large  
Nick Maddox  
At-Large  
Chairman



Vincent S. Long  
County Administrator  
Herbert W. A. Thiale  
County Attorney  
Tony Park, P.E.  
Director of Public  
Works and  
Community  
Development  
Falcon B. Ard, P.E.  
Project Manager

## LEON COUNTY

Department of Public Works  
Division of Engineering Services

Public Works Center

2280 Miccosukee Road, Tallahassee, FL 32308-5310

Ph: (850)606-1500 Fax: (850)606-1501

Web: <http://www.leoncountyfl.gov>

August 2013



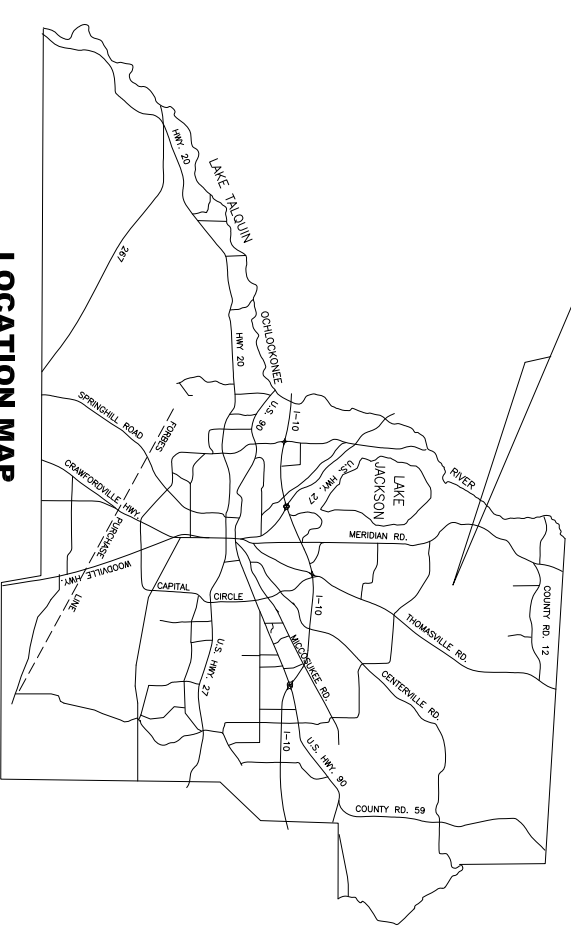
3522 Thomasville Road, Suite 300  
Tallahassee, FL 32309  
Phone: 850-386-9500  
FL COA No. EB-0000020

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, LATEST EDITION.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, 2010 EDITION AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL TECHNICAL PROVISIONS FOR THIS PROJECT.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

**PROJECT LOCATION**



**LOCATION MAP**

ISSUED FOR BID

**Water**

**Environment**

**Transportation**

**Energy**

**Facilities**

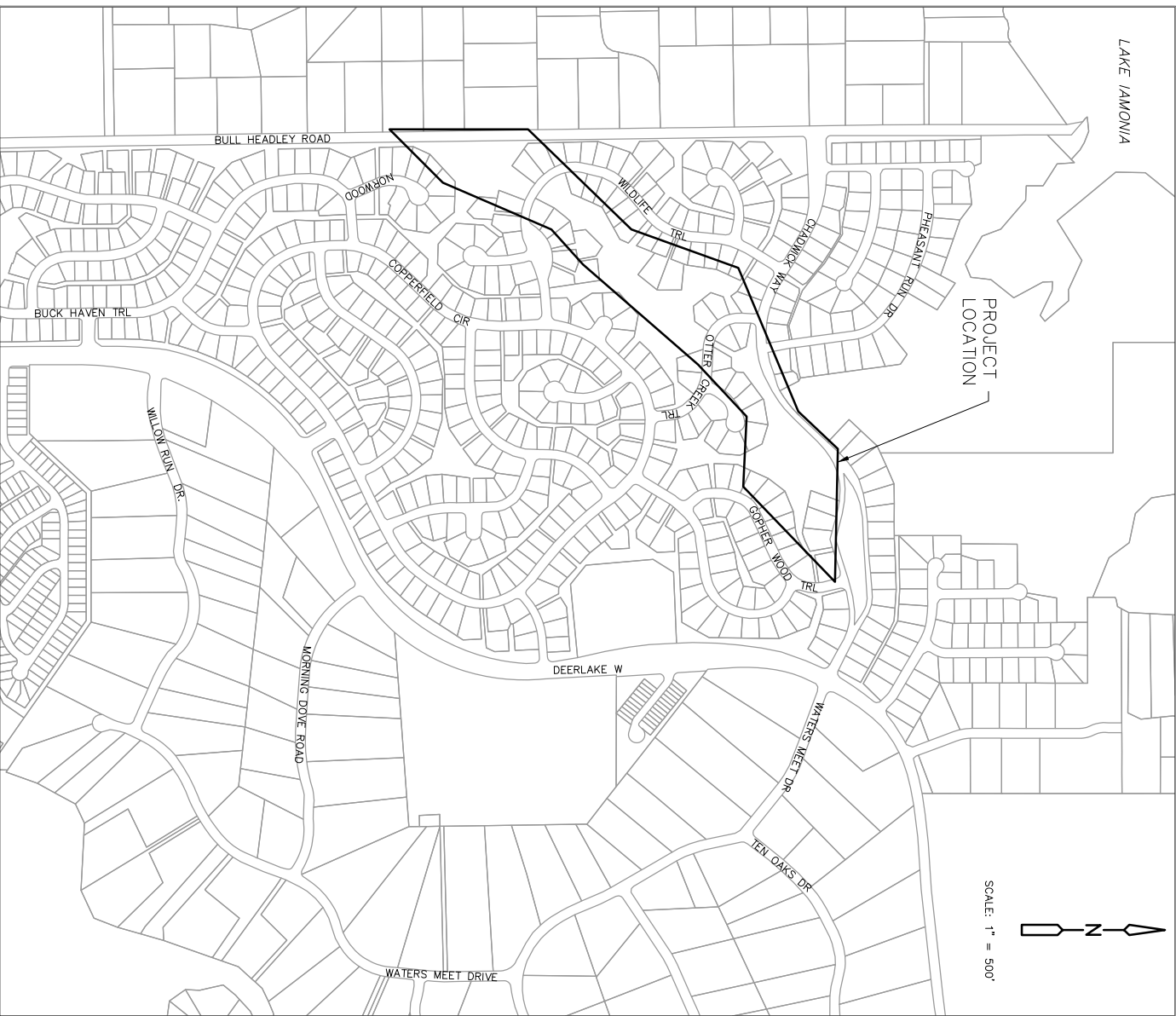
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	J. WILLIAMS
DRWN BY:	P. ANDUZE
SHEET CHK'D BY:	J. HOFFMAN
GROSS CHK'D BY:	J. WITTEG
APPROVED BY:	J. WILLIAMS
DATE:	JULY 2013

 3523 Thomaston Road, Suite 300 Tallahassee, Florida 32310 Tel: (904) 396-6500 Fax: (904) 396-6500	
---	--

LEON COUNTY, FLORIDA  SOUTHBROOK FLOODPLAIN ENHANCEMENT	LOCATION MAP, INDEX OF SHEETS AND SUMMARY OF PAY ITEMS
---	---

DATE: <b>JANE M. WILLIAMS</b> P.E. NO. 64088	PROJECT NO. 6021-79738 FILE NAME: G001GEN1 SHEET NO. G-1
--	--



SUMMARY OF PAY ITEMS					
REF. NUMBER	FDOT PAY ITEM NUMBER	DESCRIPTION	UNITS	PLAN QUANTITY	TOTAL FINAL QUANTITY
1	101-1	Mobilization	LS	1	1
2	102-1	Maintenance of Traffic	LS	1	1
3	104-10-3	Sediment Barrier	LF	10000	10000
4	104-11	Turbidity Barrier Floating	LF	70	70
5	104-15	Soil Tracking Prevention Device	EA	3	3
6	110-1-1	Cleaning & Grubbing	LS	1	1
7	120-4	Subsoil Excavation	CY	2000	2000
8	120-5	Channel Excavation	CY	22000	22000
9	120-6	Embankment	CY	500	500
10	430-94-5	Deslilling Pipe, 61" or Greater	LF	150	150
11	430-950	Deslilling Concrete Box Culvert	CY	107	107
12	530-3-3	Riprap Rubble (Bank and Shore)	TN	2570	2570
13	570-1-1	Performance Turf Seed	SY	43300	43300
14	571-1-11	Plastic Erosion Mat (NAG C125 OE)	SY	29900	29900
15	571-1-13	Plastic Erosion Mat (NAG C350 OE)	SY	13400	13400
16	580-1-2	Landscape Complete	LS	1	1
17	7000-1	Tree Barricade	LF	5000	5000
18	8000-1	Concrete Encase Existing 4" PVC Sewer	LF	375	375
19	8000-2	Concrete Encase Existing 8" PVC Sewer	LF	595	595

SHEET NO.	TITLE
GENERAL	COVER
G-1	LOCATION MAP, INDEX OF SHEETS AND SUMMARY OF PAY ITEMS
G-2	GENERAL NOTES, LEGEND AND ABBREVIATIONS
G-3	KEY PLAN
G-4	CONSTRUCTION SEQUENCE AND HAUL ROUTES
CIVIL	CIVIL
C-1	EXISTING CONDITIONS TREE TABLE AND NOTES
C-2	EXISTING CONDITIONS PLAN
C-3	EXISTING CONDITIONS PLAN
C-4	EXISTING CONDITIONS PLAN
C-5	EXISTING CONDITIONS PLAN
C-6	EXISTING CONDITIONS PLAN
C-7	HORIZONTAL CONTROL PLAN
C-8	UPSTREAM STORAGE AREA PLAN
C-9	CHANNEL PLAN AND PROFILE
C-10	CHANNEL PLAN AND PROFILE
C-11	CHANNEL PLAN AND PROFILE
C-12	DOWNSTREAM STORAGE AREA PLAN
C-13	CHANNEL SECTIONS
C-14	CHANNEL SECTIONS
C-15	STORAGE AREA SECTIONS
C-16	EROSION CONTROL PLAN
C-17	PLANTING PLAN
C-18	PLANTING PLAN
C-19	PLANTING PLAN
CIVIL DETAILS	CIVIL DETAILS
CD-1	PLANTING DETAILS
CD-2	CIVIL DETAILS

GENERAL NOTES

- 1. ALL ELEVATIONS ARE REFERRED TO NORTH AMERICAN VERTICAL DATUM OF 1988.
2. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE...

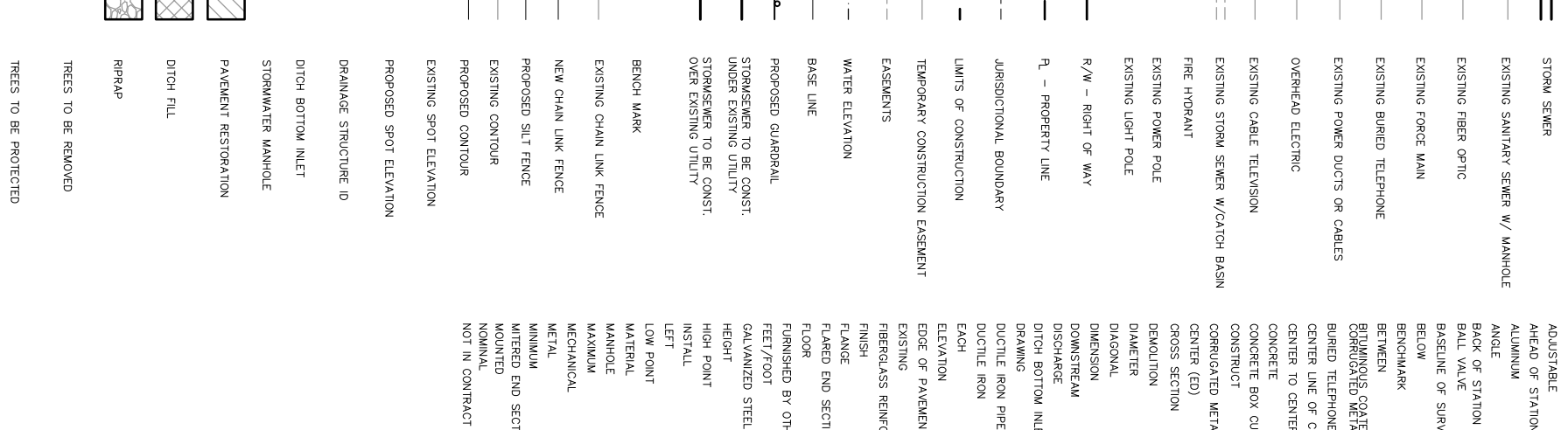
EROSION CONTROL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND STRUCTURES...
2. SEDIMENT BASINS AND TRAPS, PERIMETER DITCHES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP BEFORE ANY LAND-DISTURBING TAKES PLACE TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT...

UTILITY OWNERS & CONTACTS

- 1. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT...
2. THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
UTILITY OWNERS:
WATER & SEWER: TALQUIN ELECTRIC CO-OP, INC.
ELECTRIC: TALQUIN ELECTRIC CO-OP, INC.
TELEPHONE: QUINN ELECTRIC CO-OP, INC.

LEGEND

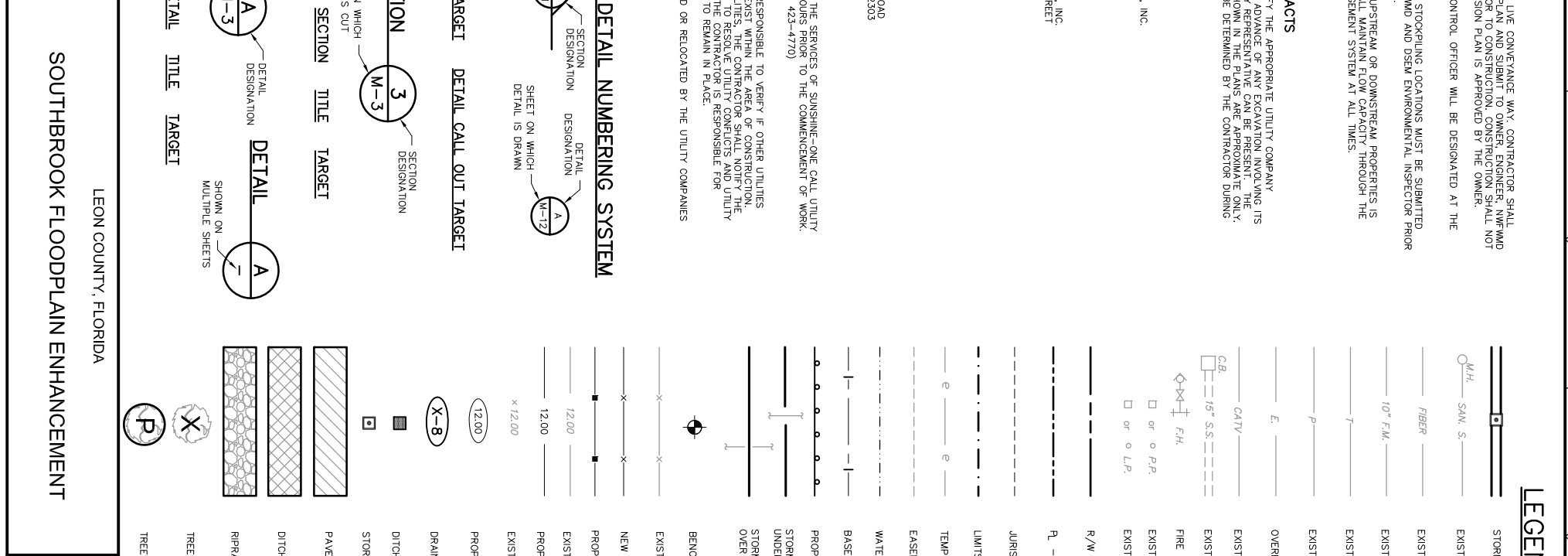
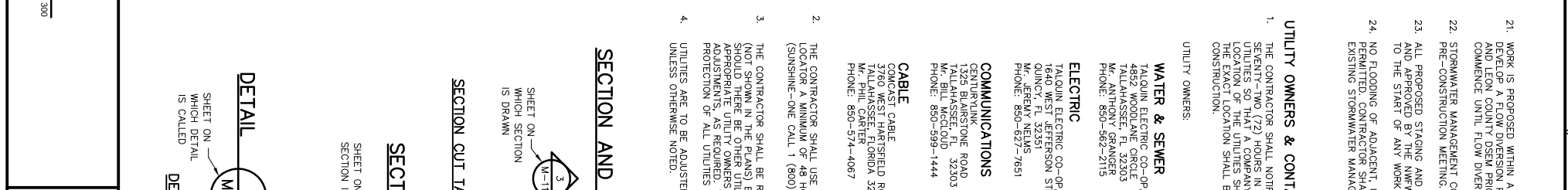


ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like ADJ (ADJUSTABLE), AL (AHEAD OF STATION), AN (ANGLE), etc.

Table with columns: REV., DATE, DRWN, CHGD, REMARKS. Contains revision history for drawing G-2.

CDM Smith logo and contact information for Leon County, Florida. Includes address: 3522 Thomaston Road, Suite 300, Tallahassee, FL 32305.



GENERAL NOTES, LEGEND AND ABBREVIATIONS section containing project information and drawing details. Includes project name: SOUTHBROOK FLOODPLAIN ENHANCEMENT and drawing title: LEGEND AND ABBREVIATIONS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS	DESIGNED BY: J. WILLIAMS
DRAWN BY: P. ANDUZE	DRAWN BY: P. ANDUZE
SHEET CHK'D BY: J. HOFFMAN	SHEET CHK'D BY: J. HOFFMAN
GROSS CHK'D BY: J. WILLIAMS	GROSS CHK'D BY: J. WILLIAMS
APPROVED BY: J. WILLIAMS	APPROVED BY: J. WILLIAMS
DATE: JULY 2013	DATE: JULY 2013

**CDM Smith**  
 3522 Thomaston Road, Suite 300  
 Tallahassee, FL 32309  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

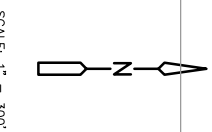
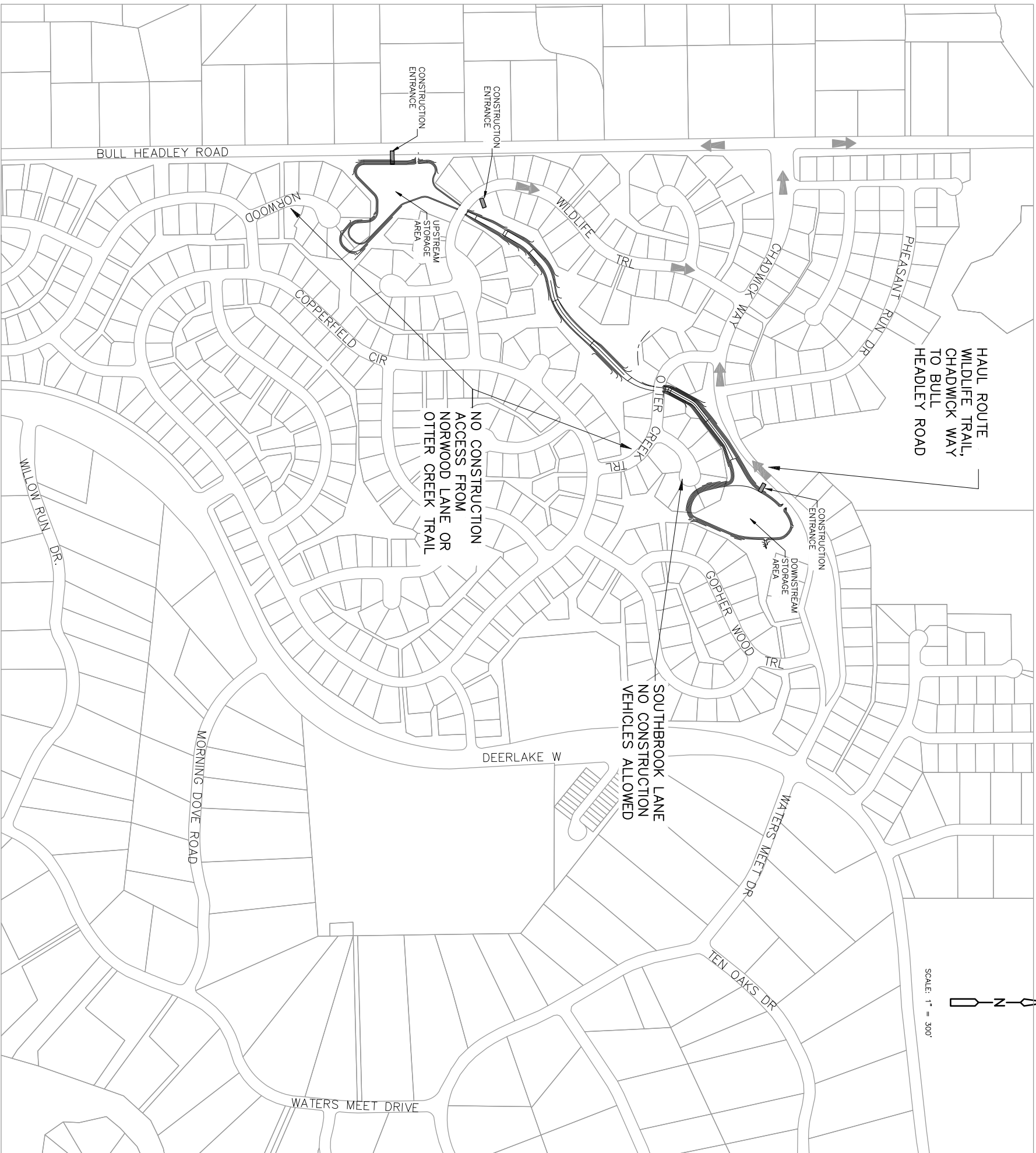
**KEY PLAN**

DATE: JANE M. WILLIAMS  
 P.E. NO. 64088

PROJECT NO. 6021-79738  
 FILE NAME: G003KYM\F.DWG

SHEET NO. G-3





**CONSTRUCTION SEQUENCE:**

THE FOLLOWING DEPICTS ONE LOGICAL SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS AND DEVELOPMENT OF A FLOW DIVERSION PLAN THAT ACCOMMODATES HIS PROPOSED WORK PLAN AND CONSTRUCTION SEQUENCE.

1. PREPARE AND SUBMIT ALL NECESSARY PERMITS FOR CONSTRUCTION INCLUDING EROSION AND SEDIMENT CONTROL CONSISTENT WITH THE PROPOSED FLOW DIVERSION AND WORK PLAN.
2. SCHEDULE PRE-CONSTRUCTION CONFERENCE WITH LEON COUNTY PUBLIC WORKS AND DSEM.
3. MOBILIZE TO THE SITE AND PERFORM SITE PREPARATION ACTIVITIES INCLUDING STABILIZATION OF ACCESS AREAS, INSTALLATION OF TREE PROTECTION, INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND ANY TEMPORARY FENCING/GATE REQUIRED TO SECURE THE SITE.
4. BEGINNING AT THE DOWNSTREAM STORAGE AREA CLEAR AND GRUB STORAGE AREA, GRADE TO FINAL DIMENSIONS, INSTALL TEMPORARY STABILIZATION AND INSTALL FILTER BERM. DOWNSTREAM STORAGE AREA WILL FUNCTION AS A TEMPORARY SEDIMENT BASIN.
5. MOVE UPSTREAM TO THE CHANNEL, CLEAR AND GRUB AND GRADE TO FINAL DIMENSIONS. USE TEMPORARY SEEDING ON EXPOSED SURFACES TO REDUCE EROSION.
6. CONCRETE ENCASE THE SANITARY SEWER PIPES WITHIN THE CHANNEL.
7. INSTALL PERMANENT TURF REINFORCEMENT MAT AND RIPRAP IN THE CHANNEL PER PLANS AND SPECIFICATIONS.
8. CLEAR AND GRUB THE UPSTREAM STORAGE AREA, GRADE TO FINAL DIMENSIONS AND INSTALL PERMANENT TURF REINFORCEMENT MAT AND RIPRAP PER PLANS AND SPECIFICATIONS.
9. MOVE TO DOWNSTREAM STORAGE AREA, RE-GRADE TO FINAL DIMENSIONS, INSTALL PERMANENT TURF REINFORCEMENT MAT AND RIPRAP PER PLANS AND SPECIFICATIONS.
10. INSTALL PLANTINGS.
11. REMOVE TEMPORARY EROSION CONTROL MEASURES.

**NOTES:**

1. CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION, A FLOW DIVERSION PLAN AND A HAUL ROUTE PLAN, PRIOR TO CONSTRUCTION, FOR APPROVAL BY THE COUNTY. THE SUBMITTAL SHALL INCLUDE EQUIPMENT PARKING AREAS AND MATERIALS STORAGE AREAS. IN ADDITION, ALL TREES WHICH WILL REMAIN BUT REQUIRE TREE PROTECTION BARRICADES IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANNING PLAN SHALL BE IDENTIFIED AS PART OF THIS SUBMITTAL.
2. CONTRACTOR SHALL VIDEO AND PHOTOGRAPH ALL HAUL ROUTES AND ROADS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL ROAD DAMAGE TO EQUAL OR BETTER CONDITION.
3. THE CONTRACTOR SHALL COORDINATE STAGING AREAS, DISPOSAL SITES AND STOCK PILE AREAS WITH THE COUNTY. OFF-SITE STAGING MAY REQUIRE A SEPARATE ENVIRONMENTAL PERMIT FROM DSEM.
4. NO STAGING OR STOCKPILING MAY OCCUR IN THE WETLANDS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITTEG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013



LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**CONSTRUCTION SEQUENCE AND HAUL ROUTES**

DATE: <b>JANNE M. WILLIAMS</b> P.E. NO. 64088	PROJECT NO.: 6021-79738
	FILE NAME: G004CONS.DWG
	SHEET NO.: G-4



REV. NO.	DATE	DRWN	CHKD	REMARKS

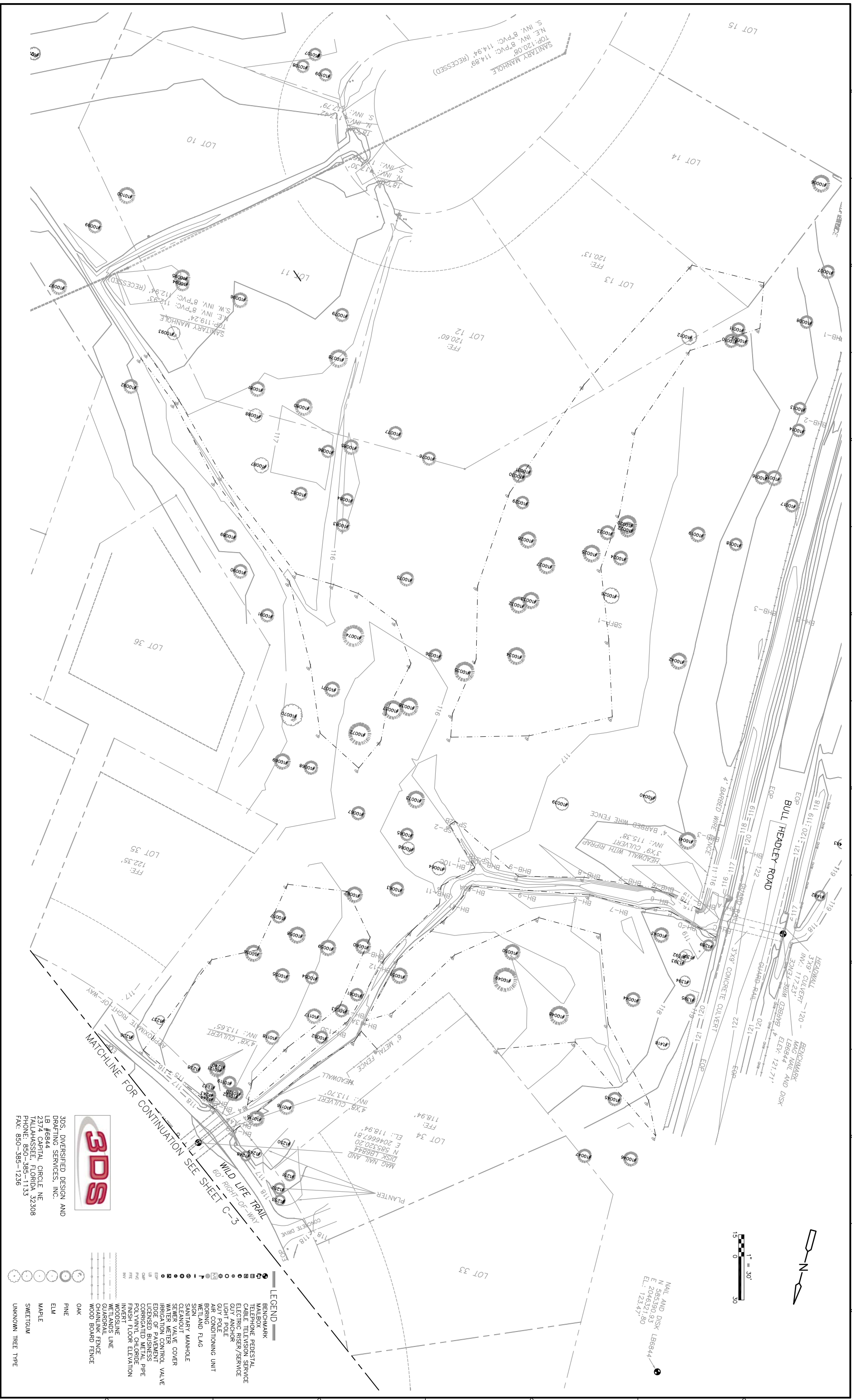
DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 SHEET CHK'D BY: \_\_\_\_\_  
 GROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: JULY 2013

**CDM Smith**  
 3522 Thomastown Road, Suite 300  
 Tallahassee, Florida 32308  
 Tel: (904) 386-4500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**EXISTING CONDITIONS PLAN**

PROJECT NO. 6021-79738  
 FILE NAME: C002SURV.DWG  
 SHEET NO. C-2  
 ISSUED FOR BID




**BDS**  
 305 DIVERSIFIED DESIGN AND  
 DRAFTING SERVICES, INC.  
 LB #6844  
 2374 CAPITAL CIRCLE NE  
 TALLAHASSEE, FLORIDA 32308  
 PHONE: 850-385-1133  
 FAX: 850-385-1236

**LEGEND**

	BENCHMARK
	MAILBOX
	TELEPHONE PEDESTAL
	CABLE TELEVISION SERVICE
	ELECTRIC METER/SERVICE
	LIGHT POLE
	GUY POLE
	AIR CONDITIONING UNIT
	BORING
	WETLAND FLAG
	SANITARY MANHOLE
	CLEANOUT VALVE
	SEWER VALVE COVER
	WATER METER
	IRRIGATION CONTROL VALVE
	LICENSED BUSINESS
	CORRUGATED METAL PIPE
	POLYVINYL CHLORIDE
	FINISH FLOOR ELEVATION
	INVERT
	WOODS
	GUARDRAIL LINE
	CHAINLINK FENCE
	WOOD BOARD FENCE
	OAK
	PINE
	ELM
	MAPLE
	SWEETGUM
	UNKNOWN TREE TYPE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 SHEET CHK'D BY: \_\_\_\_\_  
 GROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: JULY 2013



3522 Thomaston Road, Suite 300  
 Tallahassee, Florida 32308  
 Tel: (904) 386-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
 SOUTHBROOK FLOODPLAIN ENHANCEMENT

EXISTING CONDITIONS PLAN

PROJECT NO. 6021-79738  
 FILE NAME: C003SURV.DWG  
 SHEET NO. C-3  
 ISSUED FOR BID



3DS, DIVERSIFIED DESIGN AND DRAFTING SERVICES, INC.  
 LB #6844  
 2374 CAPITAL CIRCLE NE  
 TALAHASSEE, FLORIDA 32308  
 PHONE: 850-385-1133  
 FAX: 850-385-1236



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 SHEET CHK'D BY: \_\_\_\_\_  
 GROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: JULY 2013

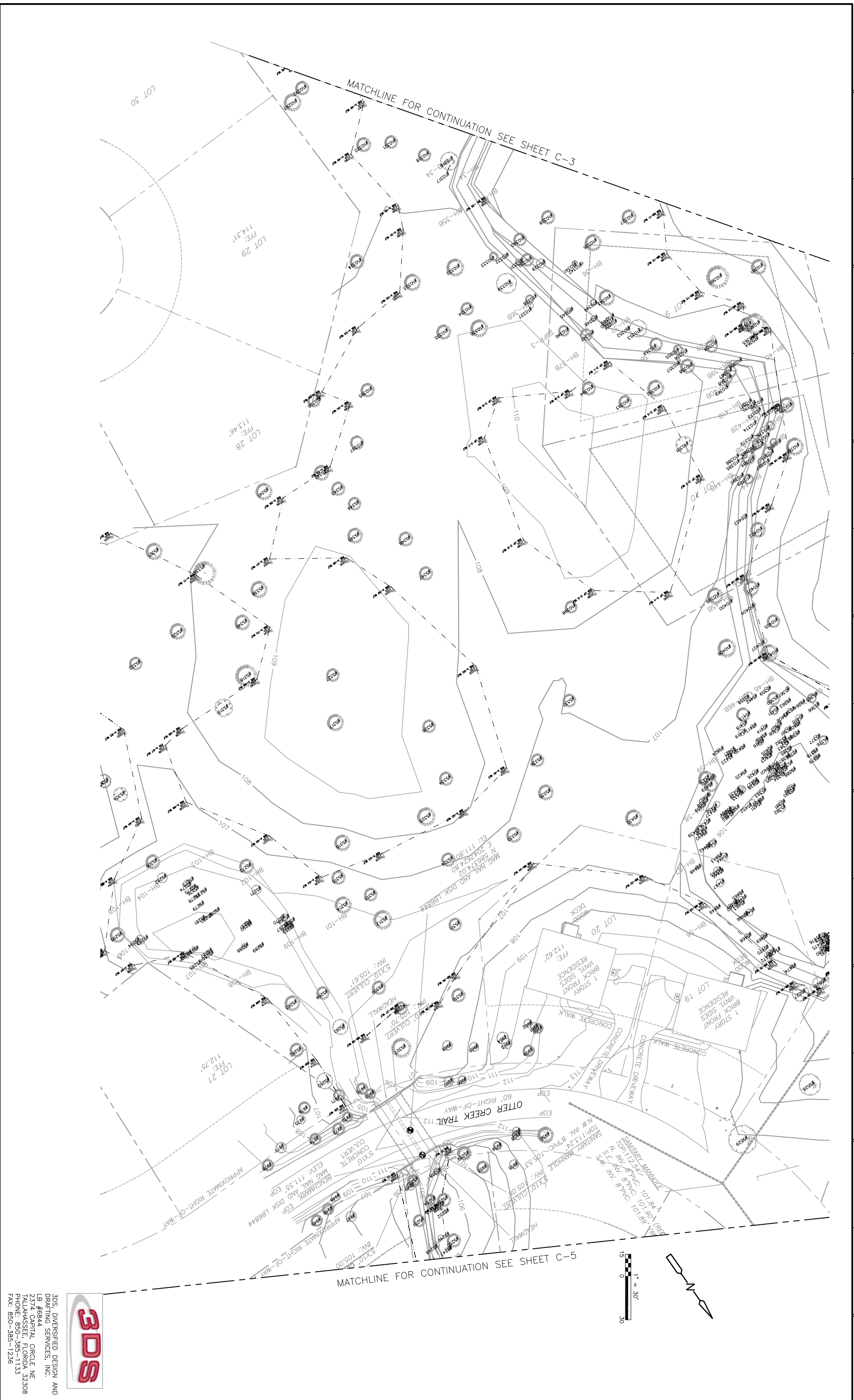


LEON COUNTY, FLORIDA

SOUTHBROOK FLOODPLAIN ENHANCEMENT

EXISTING CONDITIONS PLAN

PROJECT NO. 6021-79738  
 FILE NAME: C004SURV.DWG  
 SHEET NO. C-4  
 ISSUED FOR BID



3DS, DIVERSIFIED DESIGN AND DRAFTING SERVICES, INC.  
 2374 CAPITAL CIRCLE NE  
 TALLAHASSEE, FLORIDA 32308  
 PHONE: 850-383-1133  
 FAX: 850-383-1236

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 SHEET CHK'D BY: \_\_\_\_\_  
 CROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 DATE: JULY 2013

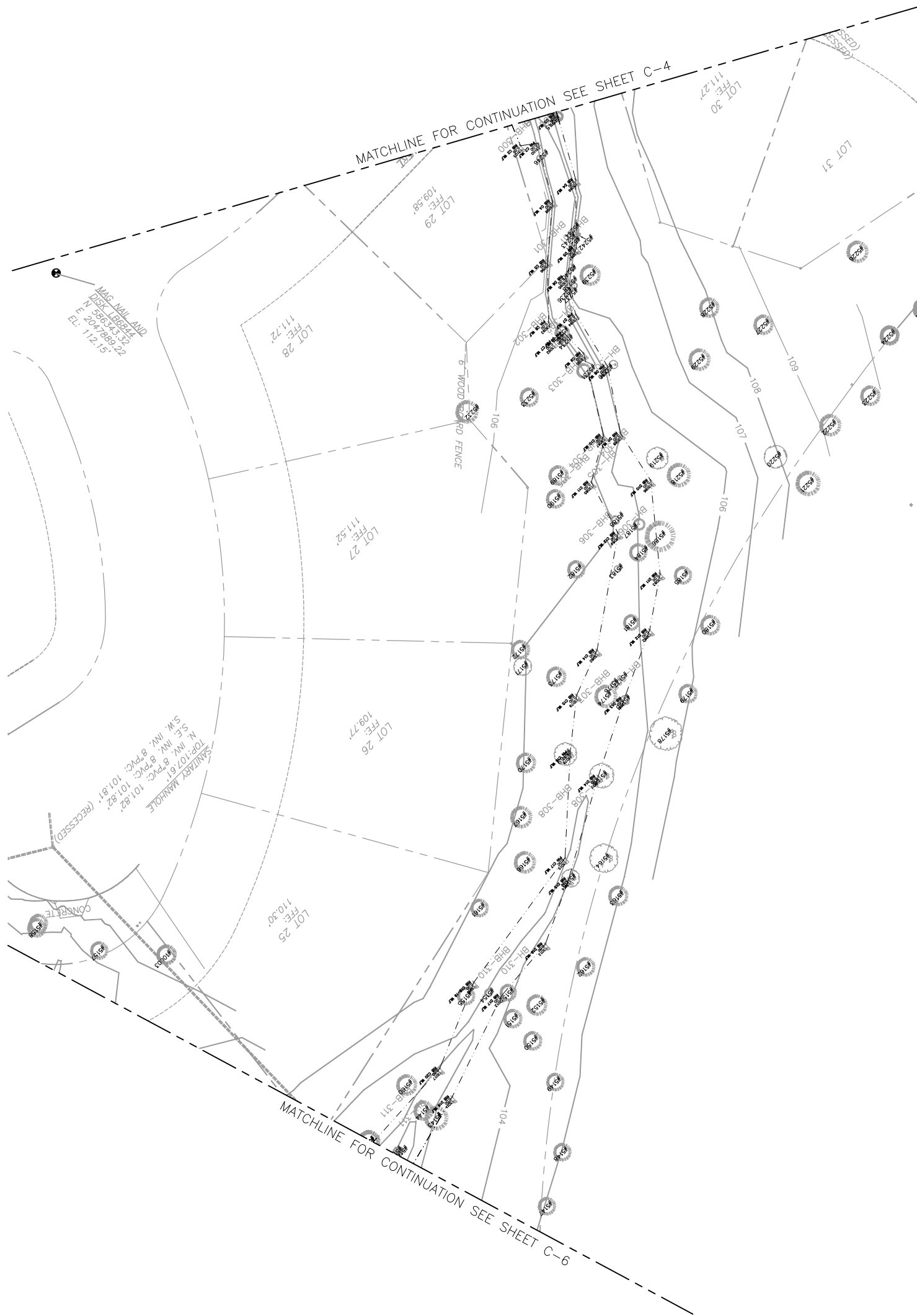
**CDM Smith**  
 3527 Thomastown Road, Suite 300  
 Tallahassee, Florida 32308  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**EXISTING CONDITIONS PLAN**

PROJECT NO. 6021-79738  
 FILE NAME: C005SURV.DWG  
 SHEET NO. C-5  
 ISSUED FOR BID

**BDS**  
 3DS, DIVERSIFIED DESIGN AND  
 DRAFTING SERVICES, INC.  
 LB #6844  
 2374 CAPITAL CIRCLE NE  
 TALLAHASSEE, FLORIDA 32308  
 PHONE: 850-385-1133  
 FAX: 850-385-1236



4

3

2

1

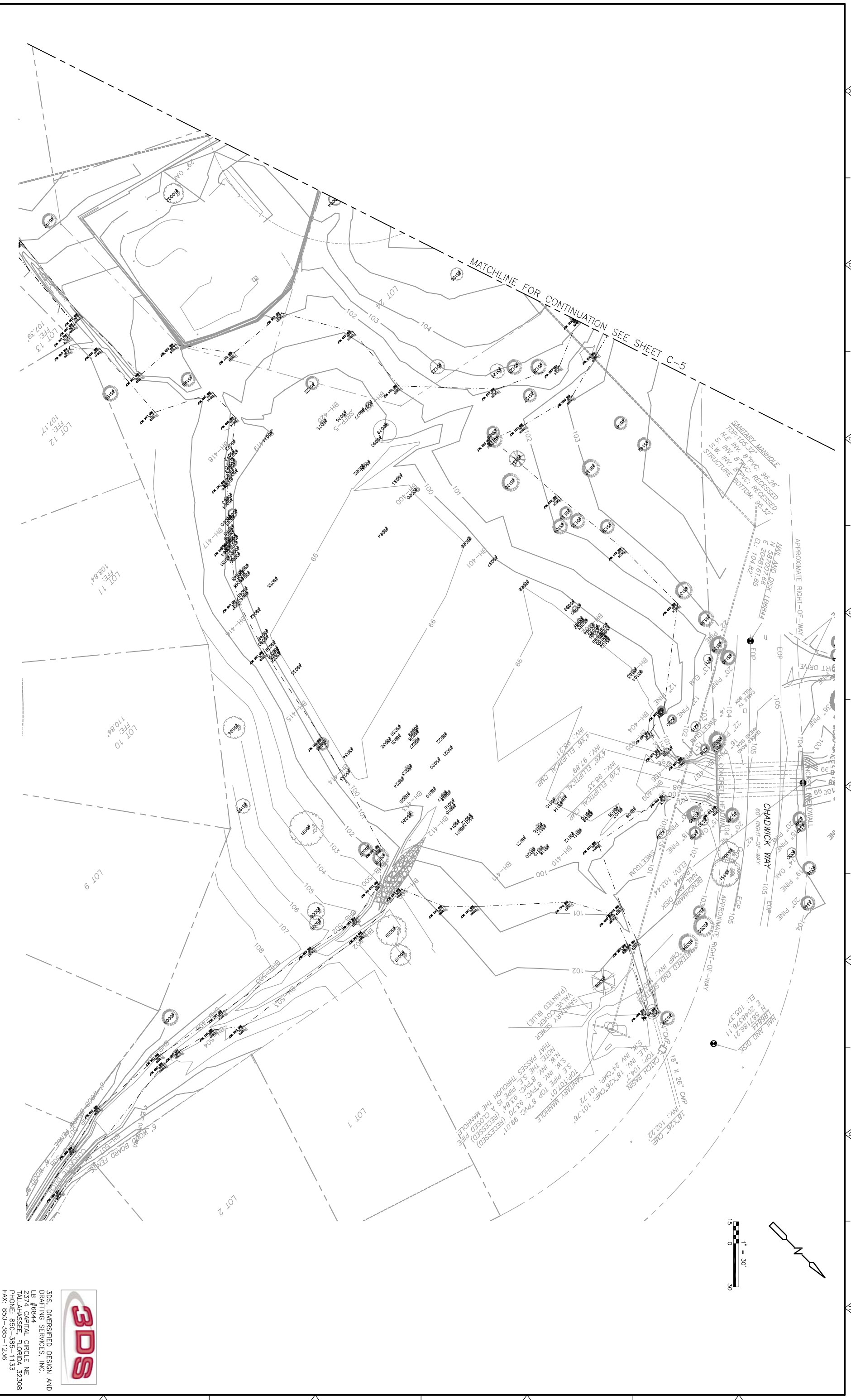
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	DRAWN BY:
CHECKED BY:	CROSS CHECKED BY:
APPROVED BY:	DATE: JULY 2013

**CDM Smith**  
 3522 Thomaston Road, Suite 300  
 Tallahassee, Florida 32308  
 Tel: (904) 398-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**EXISTING CONDITIONS PLAN**  
 PROJECT NO. 6021-79738  
 FILE NAME: C006SURV.DWG  
 SHEET NO. C-6  
 ISSUED FOR BID



**SDDS**  
 3DS, DIVERSIFIED DESIGN AND  
 DRAFTING SERVICES, INC.  
 LB #68844  
 2374 CAPITAL CIRCLE, NE  
 TALLAHASSEE, FLORIDA 32308  
 PHONE: 850-385-1133  
 FAX: 850-385-1236

CHANNEL CONSTRUCTION BASELINE ALIGNMENT LINE DATA

LINE #	BEARING	DISTANCE	START STATION	END STATION	START POINT	END POINT
L1	S89° 36' 41.32"E	26.87	10+00.00	10+26.87	N=585078.84 E=2046360.02	N=585078.65 E=2046386.89
L2	N35° 48' 36.51"E	219.82	12+21.20	14+41.02	N=585161.67 E=2046554.22	N=585339.93 E=204682.83
L3	N25° 58' 44.98"E	147.78	14+41.02	15+88.80	N=585339.93 E=2046682.83	N=585472.78 E=2046747.57
L4	N30° 01' 07.81"E	190.28	15+88.80	17+79.08	N=585472.78 E=2046747.57	N=585637.54 E=2046842.76
L5	N48° 03' 16.32"E	101.90	18+31.60	19+33.50	N=585677.96 E=2046876.05	N=585746.07 E=2046951.84
L6	N78° 25' 40.58"E	83.93	20+40.25	21+24.17	N=585792.86 E=2047046.34	N=585809.70 E=2047128.56
L7	N45° 49' 08.38"E	96.50	22+74.60	23+71.11	N=585886.15 E=2047256.84	N=585953.40 E=2047326.05
L8	N41° 50' 16.34"E	126.97	23+71.11	24+98.07	N=585953.40 E=2047326.05	N=586048.00 E=2047410.74
L9	N45° 17' 16.24"E	198.58	24+98.07	26+96.65	N=586048.00 E=2047410.74	N=586187.71 E=2047551.86
L10	N1° 30' 55.03"E	62.49	28+76.98	29+39.47	N=586348.21 E=2047626.43	N=586410.67 E=2047628.09
L11	N28° 38' 28.40"E	124.62	29+71.29	30+95.90	N=586440.52 E=2047638.79	N=586498.89 E=2047698.52
L12	N52° 11' 54.44"E	242.09	31+38.12	33+80.21	N=586579.80 E=2047727.87	N=586728.18 E=2047919.15
L13	N63° 19' 34.18"E	95.93	33+80.21	34+76.14	N=586728.18 E=2047919.15	N=586771.25 E=2048004.87
L14	S85° 54' 10.10"E	75.62	36+15.51	36+91.13	N=586806.18 E=2048138.47	N=586800.78 E=2048213.89

CHANNEL CONSTRUCTION BASELINE ALIGNMENT CURVE DATA

CURVE #	RADIUS	LENGTH	TANGENT	DELTA	CHORD LENGTH	START STATION	END STATION	START POINT	END POINT
C1	200.16	194.33	105.59	55°37'42"	186.79	10+26.87	12+21.20	N=585078.65 E=2046386.89	N=585161.67 E=2046554.22
C2	194.22	52.52	26.42	15°29'35"	52.36	17+79.08	18+31.60	N=585637.54 E=2046842.76	N=585677.96 E=2046876.05
C3	197.48	106.74	54.71	30°58'14"	105.45	19+33.50	20+40.25	N=585746.07 E=2046951.84	N=585792.86 E=2047046.34
C4	359.49	150.43	76.33	23°58'52"	149.33	21+24.17	22+74.60	N=585809.70 E=2047128.56	N=585886.15 E=2047256.84
C5	269.34	180.33	93.69	38°21'41"	176.98	26+96.65	28+76.98	N=586187.71 E=2047551.86	N=586348.21 E=2047626.43
C6	108.81	31.82	16.02	16°45'14"	31.70	29+39.47	29+71.29	N=586410.67 E=2047628.09	N=586440.52 E=2047638.79
C7	100.54	42.21	21.42	24°03'24"	41.90	30+95.90	31+38.12	N=586498.89 E=2047698.52	N=586579.80 E=2047727.87
C8	295.55	139.37	71.01	27°01'10"	138.08	34+76.14	36+15.51	N=586771.25 E=2048004.87	N=586800.78 E=2048138.47



- NOTES:
1. SEE SHEET C-16 FOR LIMITS OF CONSTRUCTION
  2. EXISTING SURVEY MONUMENTS DAMAGED OR DESTROYED AS PART OF THE CONSTRUCTION SHALL BE REPLACED.

REV. NO. _____ DATE _____ DRWN. CHKD. _____ REMARKS _____	DESIGNED BY: J. WILLIAMS DRAWN BY: P. ANDUZE SHEET CHKD. BY: J. HOFFMAN CROSS CHKD. BY: J. WITTEG APPROVED BY: J. WILLIAMS DATE: JULY 2013	<p>3522 Transonville Road, Suite 300                  Tallahassee, FL 32310                  Tel: (904) 396-6500                  Fax: (904) 396-0020</p>	LEON COUNTY, FLORIDA  <b>SOUTHBROOK FLOODPLAIN ENHANCEMENT</b>  <b>HORIZONTAL CONTROL PLAN</b>	PROJECT NO. 6021-79738 FILE NAME: C007HZCP.DWG SHEET NO. C-7 ISSUED FOR BID
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DATE: JUNE M. WILLIAMS  
 P.E. NO. 64088

REV. NO.	DATE	DRWN	CHKD	REMARKS
DESIGNED BY:	J. WILLIAMS			
DRAWN BY:	P. ANDUZE			
SHEET CHK'D BY:	J. HOFFMAN			
GROSS CHK'D BY:	J. WITTEG			
APPROVED BY:	J. WILLIAMS			
DATE:	JULY 2013			

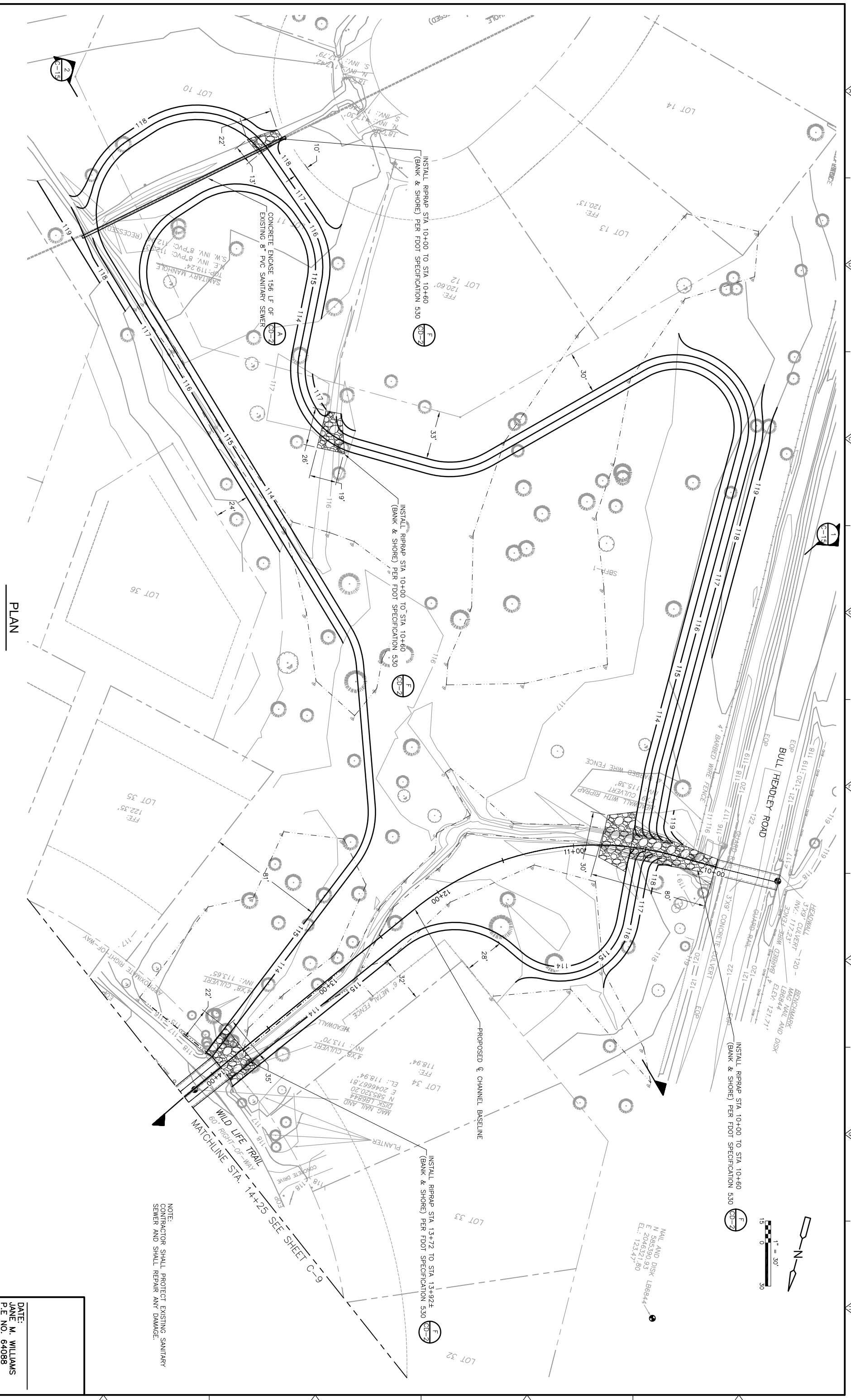
**CDM Smith**  
 3522 Thomastowne Road, Suite 300  
 Tallahassee, Florida 32309  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**UPSTREAM STORAGE AREA**  
 PLAN

DATE: JANE M. WILLIAMS  
 P.E. NO. 64088

PROJECT NO. 6021-79738  
 FILE NAME: C008STPP.DWG  
 SHEET NO. C-8



NOTE:  
 CONTRACTOR SHALL PROTECT EXISTING SANITARY SEWER AND SHALL REPAIR ANY DAMAGE.

MATCHLINE STA. 14+25 SEE SHEET C-6

PLAN

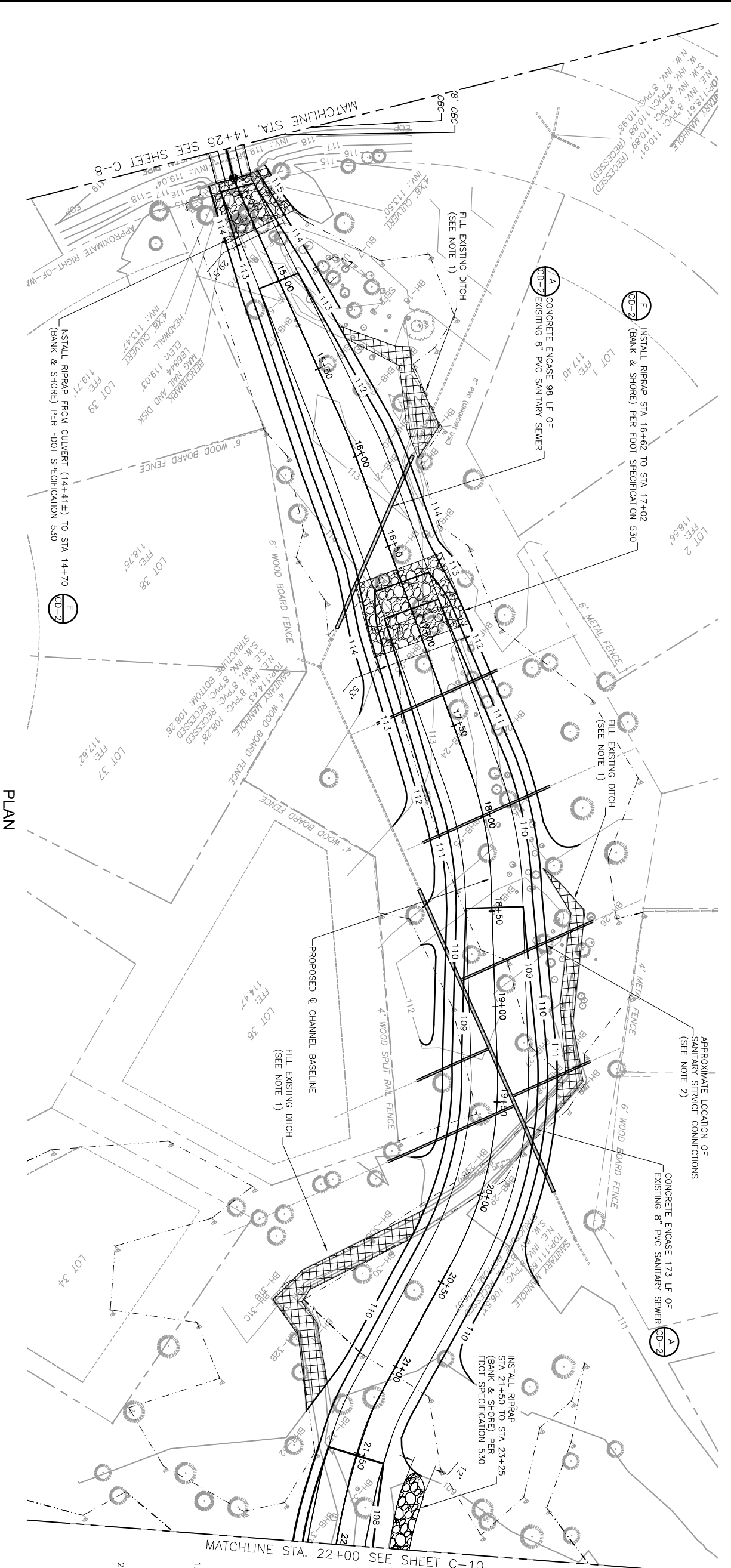
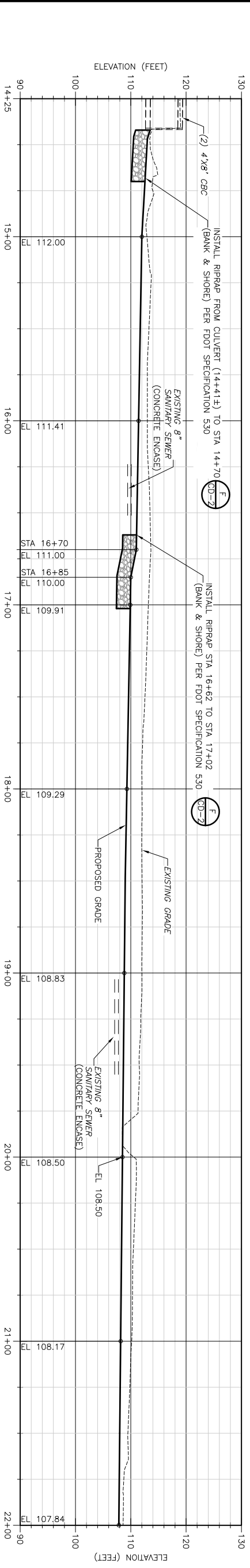
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS	DESIGNED BY: J. WILLIAMS
DRWN BY: P. ANDUZE	DRWN BY: P. ANDUZE
SHEET CHK'D BY: J. HOFFMAN	SHEET CHK'D BY: J. HOFFMAN
GROSS CHK'D BY: J. WITTEG	GROSS CHK'D BY: J. WITTEG
APPROVED BY: J. WILLIAMS	APPROVED BY: J. WILLIAMS
DATE: JULY 2013	DATE: JULY 2013

 <p>3522 Thomaston Road, Suite 300                  Tallahassee, FL 32309                  Tel: (904) 396-6500                  Fax: (904) 396-6500</p>	LEON COUNTY, FLORIDA SOUTHBROOK FLOODPLAIN ENHANCEMENT
--	---

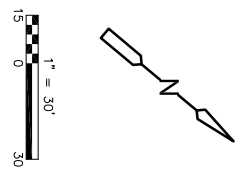
CHANNEL PLAN AND PROFILE	DATE: JANE M. WILLIAMS P.E. NO. 64088
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PROJECT NO. 6021-79738 FILE NAME: C009STPP.DWG SHEET NO. C-9	ISSUED FOR BID
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**NOTES:**

- FILL AREAS WITH IMPORTED COMMON FILL THAT DOES NOT CONTAIN STONES LARGER THAN 4 INCHES IN ANY DIMENSION AND HAS A MAXIMUM OF 20 PERCENT PASSING THE NO. 200 SIEVE. FILL SHALL BE PLACED 12" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF SANITARY SERVICE CONNECTIONS. SERVICE CONNECTIONS WITHIN LIMITS OF PROPOSED WORK SHALL BE ENCASED IN CONCRETE PER DETAIL A, SHEET CD-2. A CLEANOUT SHALL BE INSTALLED ON THE SERVICE LINE WITHIN 5 FEET OF THE LIMITS OF CONCRETE ENCASEMENT PER DETAIL H, SHEET CD-2. 6 CLEANOUTS ARE ESTIMATED BUT NUMBER MAY VARY ONCE FIELD VERIFICATION IS PERFORMED. CONTRACTOR SHALL COORDINATE WITH TALQUIN ELECTRIC COOPERATIVE, INC.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITTEG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

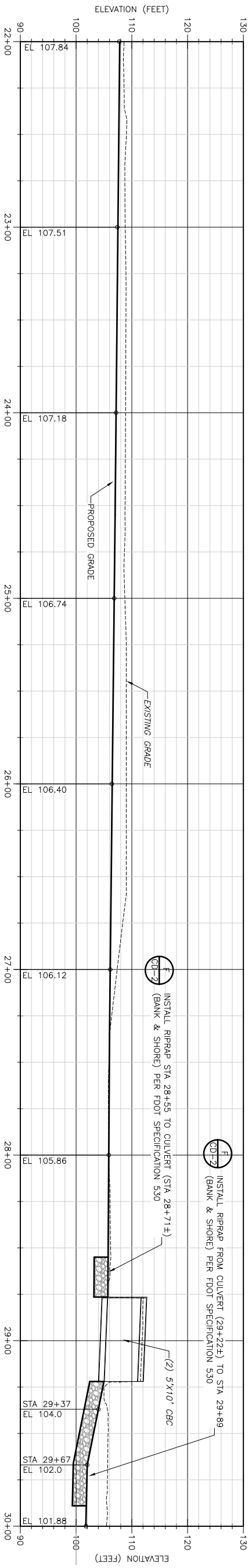


LEON COUNTY, FLORIDA  
 SOUTH BROOK FLOODPLAIN ENHANCEMENT

CHANNEL  
 PLAN AND PROFILE

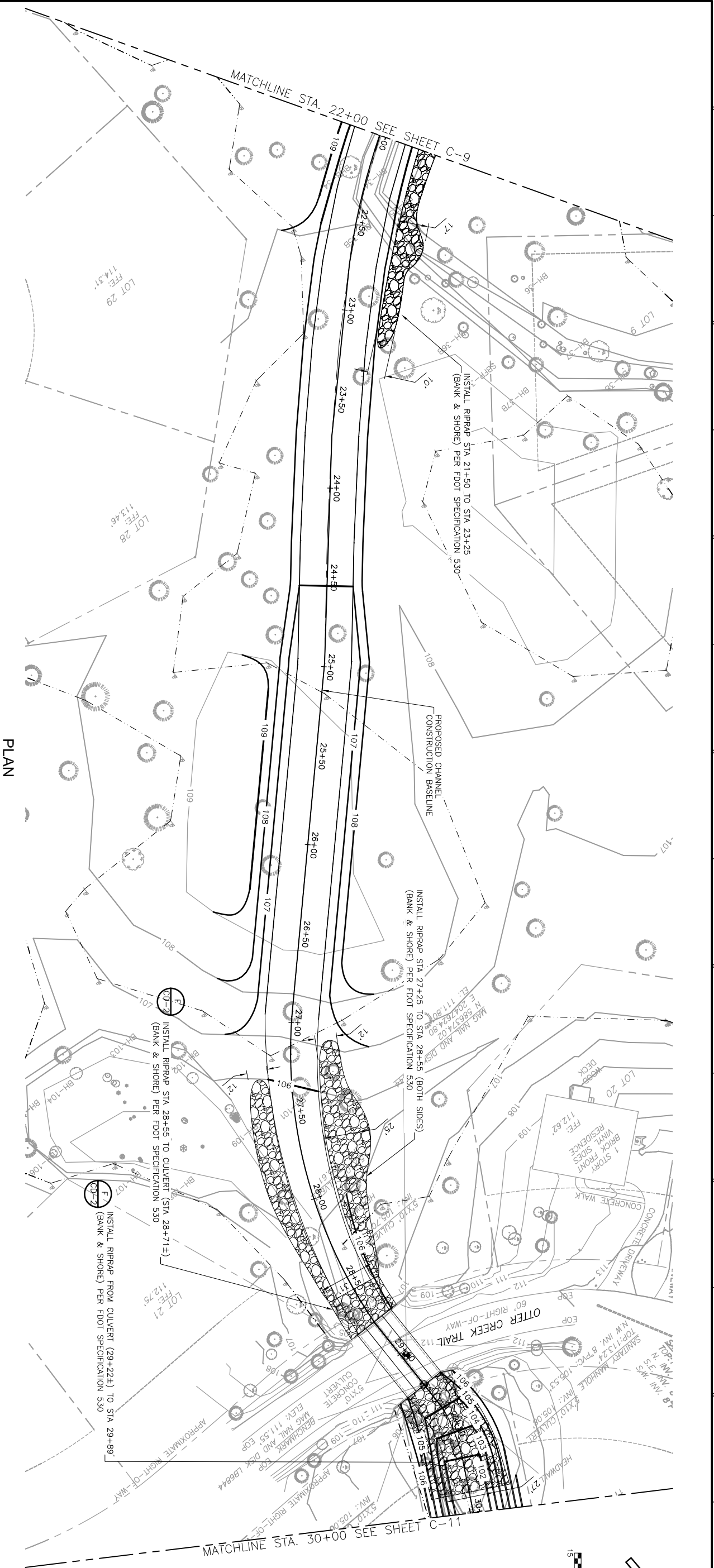
DATE: JANE M. WILLIAMS  
 PROJECT NO.: 6021-79738  
 FILE NAME: C010STPP.DWG  
 SHEET NO.: C-10

ISSUED FOR BID

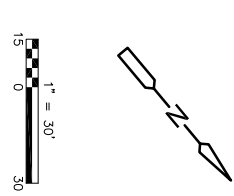


PROFILE

HORZ. 1" = 30'  
 VERT. 1" = 10'



PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITIG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

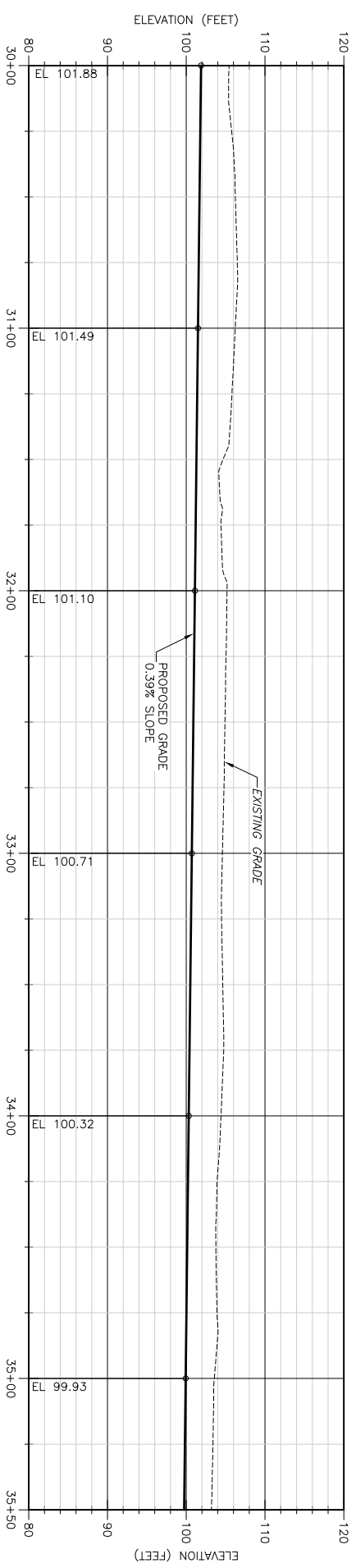


LEON COUNTY, FLORIDA  
 SOUTHBROOK FLOODPLAIN ENHANCEMENT

CHANNEL  
 PLAN AND PROFILE

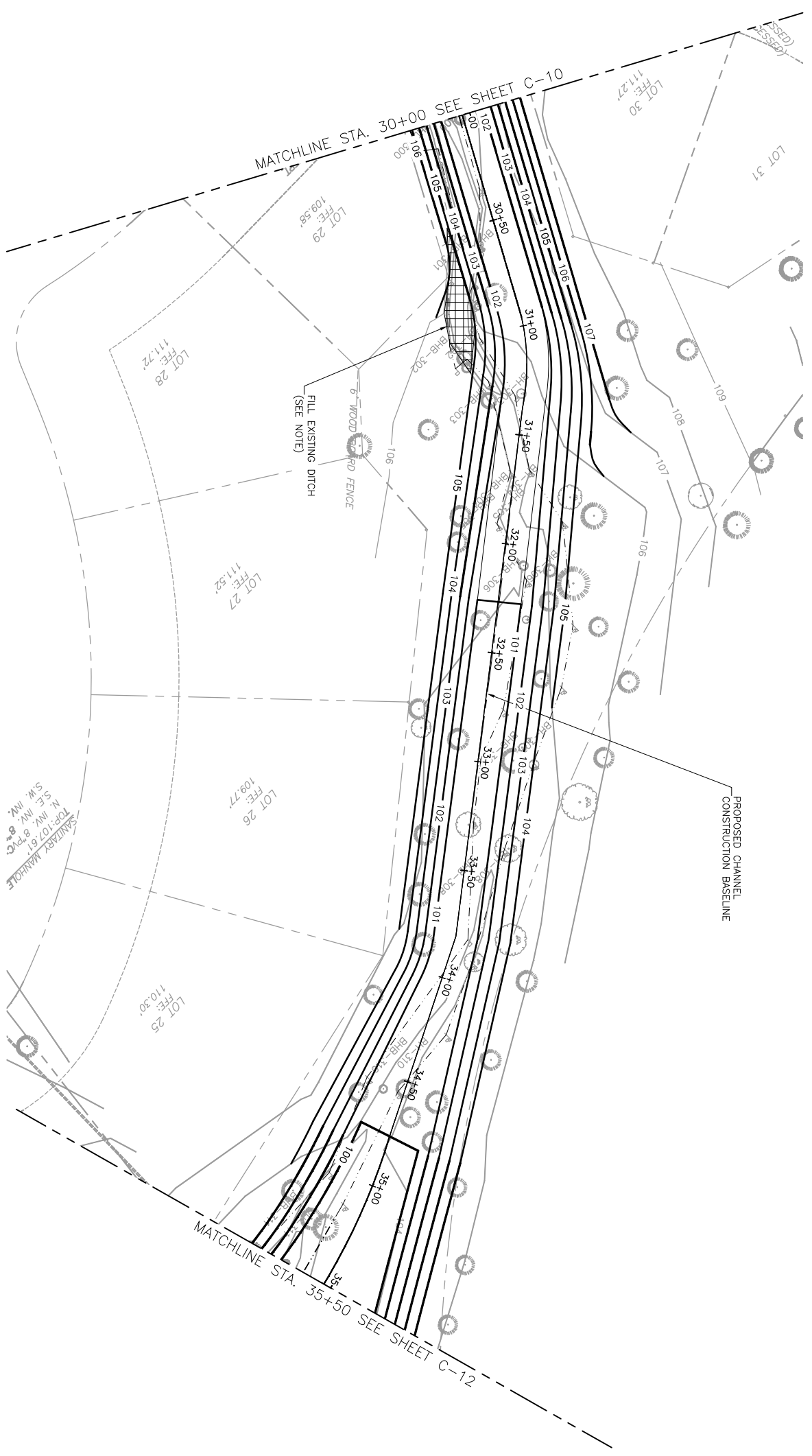
DATE: JANE M. WILLIAMS  
 P.E. NO. 64088

PROJECT NO. 6021-79738  
 FILE NAME: C011STPP.DWG  
 SHEET NO. C-11  
 ISSUED FOR BID



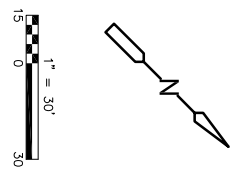
PROFILE

HORZ. 1" = 30'  
 VERT. 1" = 10'



PLAN

NOTE:  
 FILL AREAS WITH IMPORTED COMMON FILL THAT DOES NOT CONTAIN STONES LARGER THAN 4 INCHES IN ANY DIMENSION AND HAS A MAXIMUM OF 20 PERCENT PASSING THE NO. 200 SIEVE. FILL SHALL BE PLACED 12" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.





REV. NO.	DATE	DRWN	CHKD	REMARKS

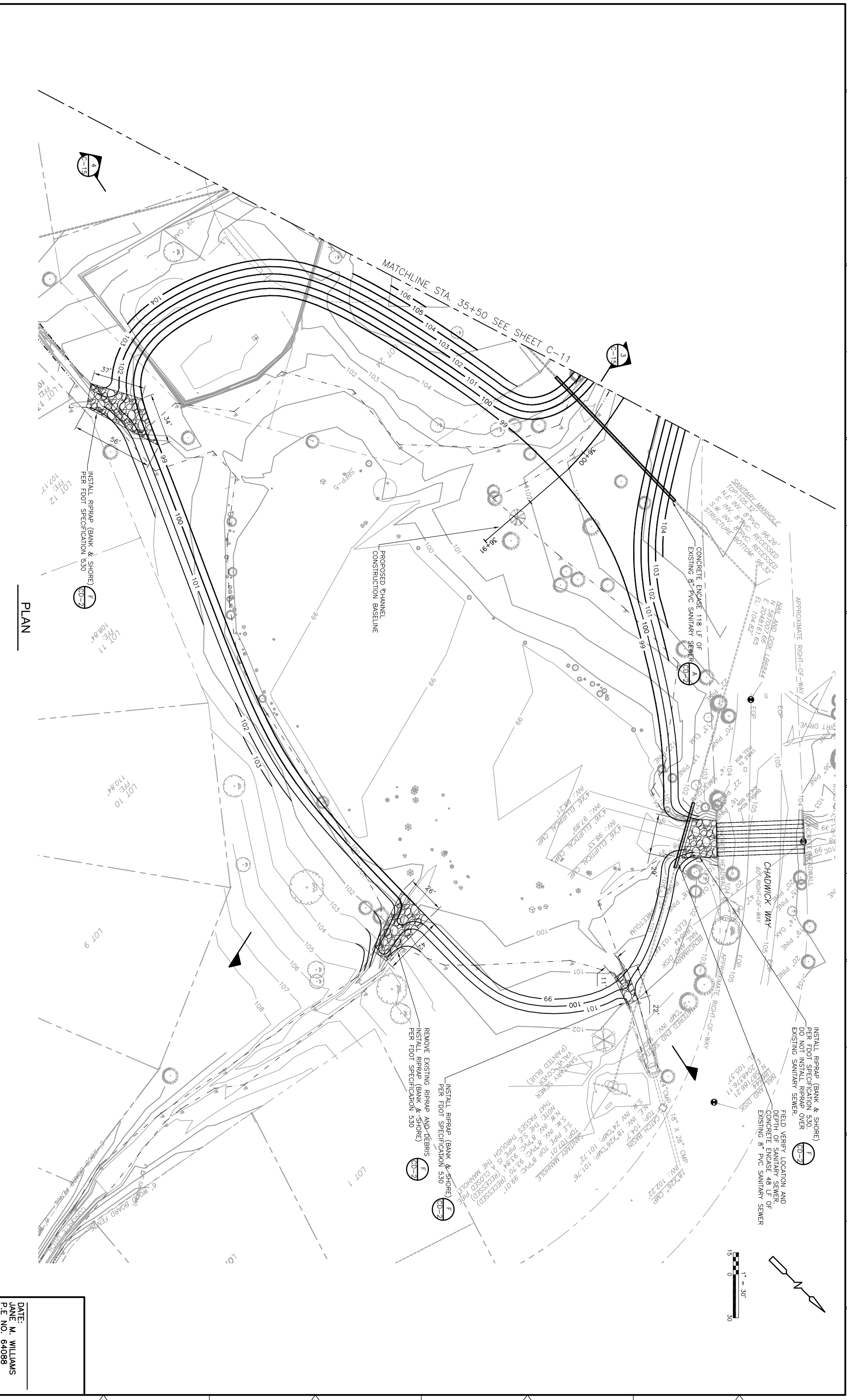
DESIGNED BY: J. WILLIAMS	DESIGNED BY: J. WILLIAMS
DRWN BY: P. ANDUZE	DRWN BY: P. ANDUZE
SHEET CHK'D BY: J. HOFFMAN	SHEET CHK'D BY: J. HOFFMAN
GROSS CHK'D BY: J. WITTEG	GROSS CHK'D BY: J. WITTEG
APPROVED BY: J. WILLIAMS	APPROVED BY: J. WILLIAMS
DATE: JULY 2013	DATE: JULY 2013

**CDM Smith**  
 3527 Thomaston Road, Suite 300  
 Tallahassee, FL 32309  
 Tel: (904) 396-6500  
 Fax: (904) 396-6500  
 P.E. No. EB-0000020

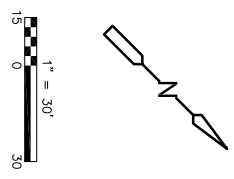
LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**DOWNSTREAM STORAGE AREA**  
 PLAN

DATE: JANE M. WILLIAMS	PROJECT NO. 6021-79738
P.E. NO. 64088	FILE NAME: C012STPP.DWG
	SHEET NO. C-12



PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITIG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

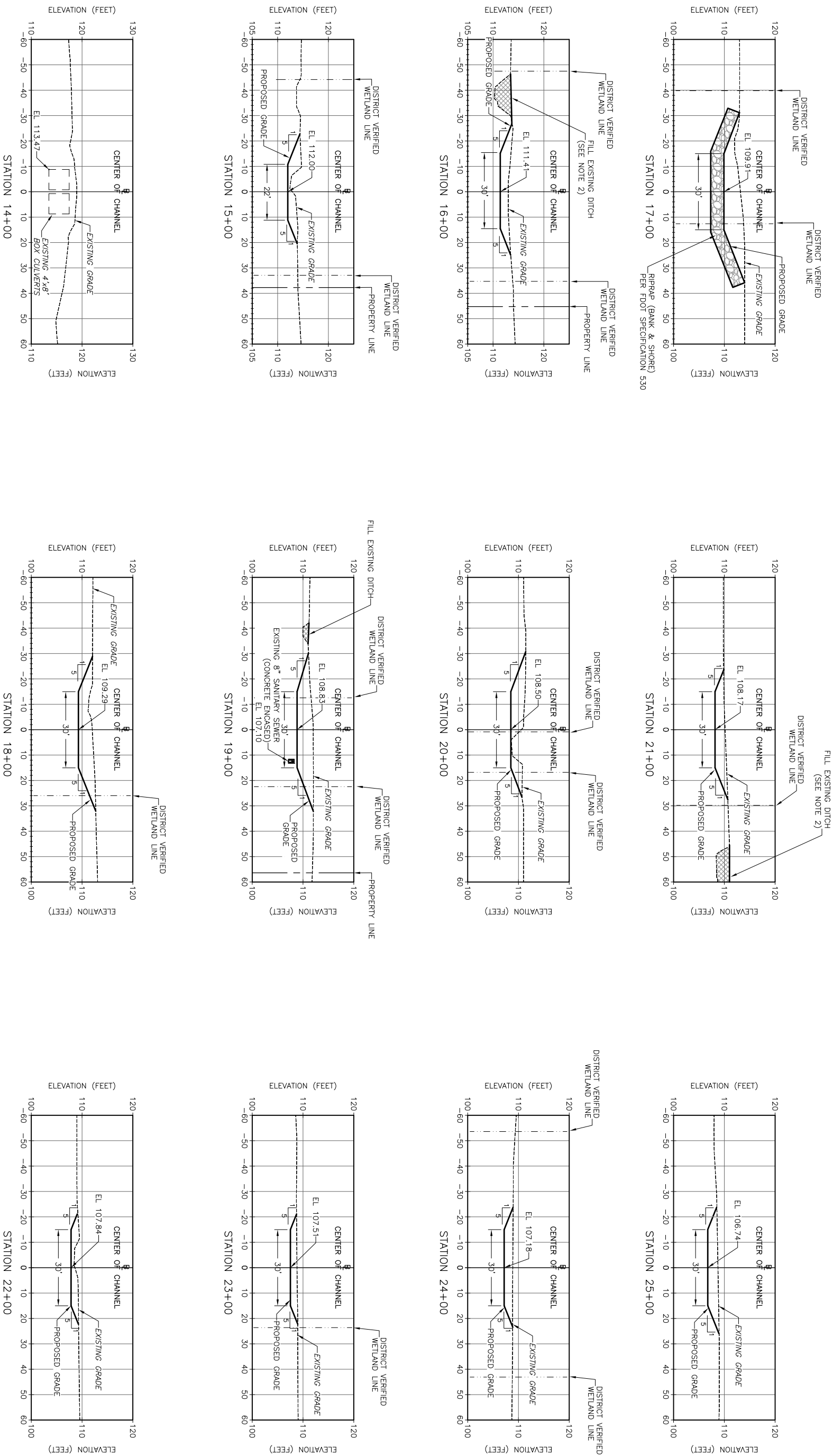


LEON COUNTY, FLORIDA

**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**CHANNEL SECTIONS**

PROJECT NO. 6021-79738  
 FILE NAME: C013XSEC.DWG  
 SHEET NO. C-13  
 DATE: JUNE M. WILLIAMS  
 P.E. NO. 64088



**SCALE:**  
 HORZ. 1" = 20'  
 VERT. 1" = 10'

- NOTES:
1. CHANNEL SHALL BE LINED WITH PERMANENT TURF REINFORCEMENT MAT, NORTH AMERICAN GREEN C350 OR APPROVED EQUAL. FERTILIZE AND SEED PRIOR TO INSTALLATION, SEE DETAIL A, SHEET CD-1.
  2. FILL AREAS WITH IMPORTED COMMON FILL THAT DOES NOT CONTAIN STONES LARGER THAN 4 INCHES IN ANY DIMENSION AND HAS A MAXIMUM OF 20 PERCENT PASSING THE NO. 200 SIEVE. FILL SHALL BE PLACED 12" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.

REV. NO.	DATE	DRWN	CHKD	REMARKS

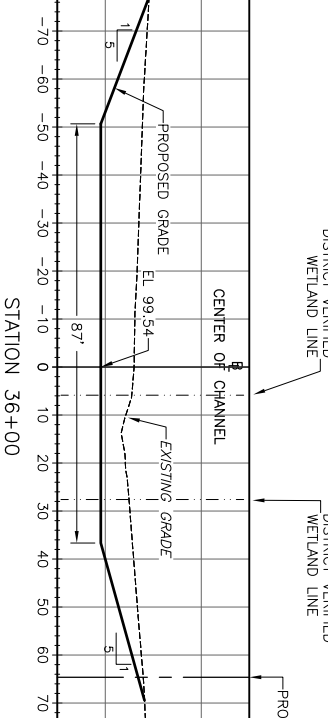
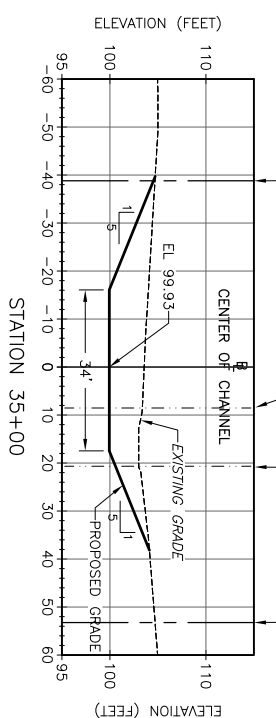
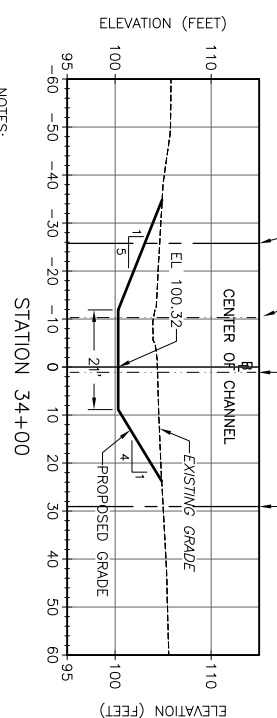
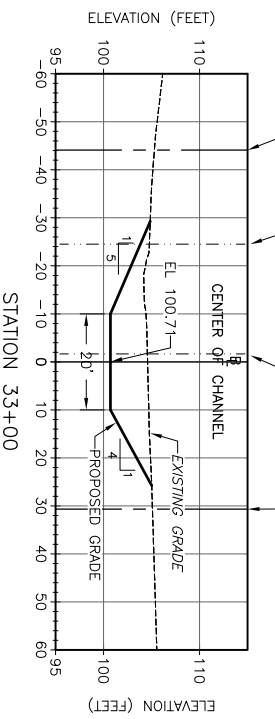
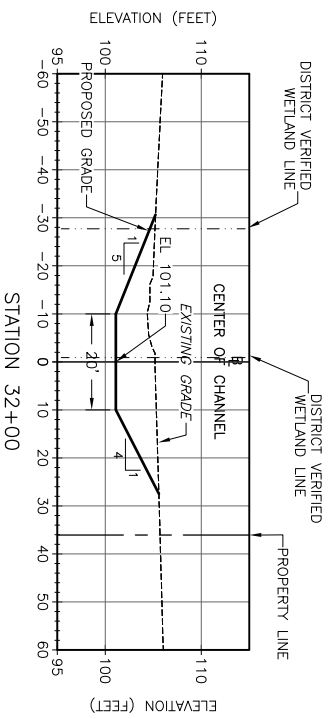
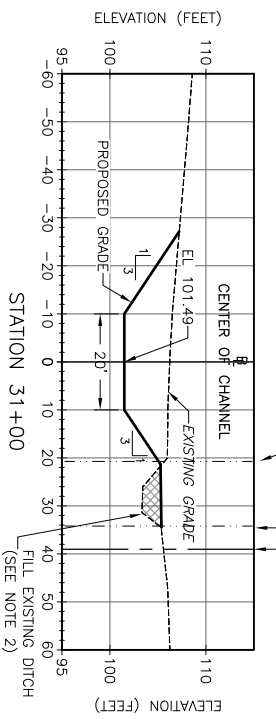
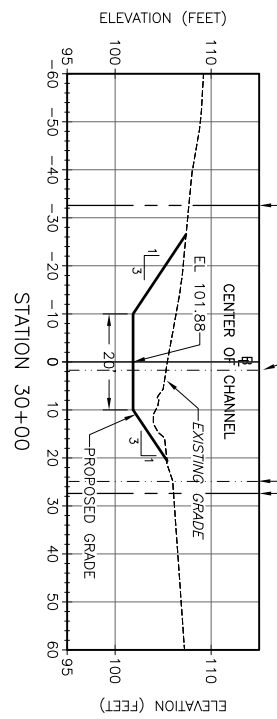
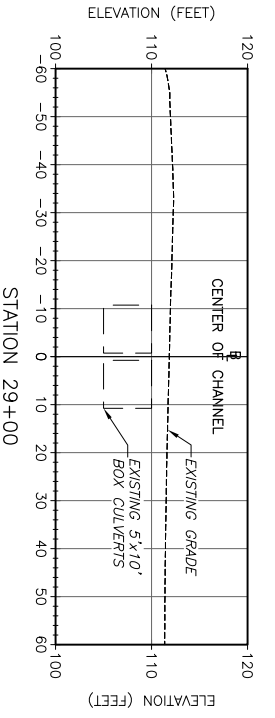
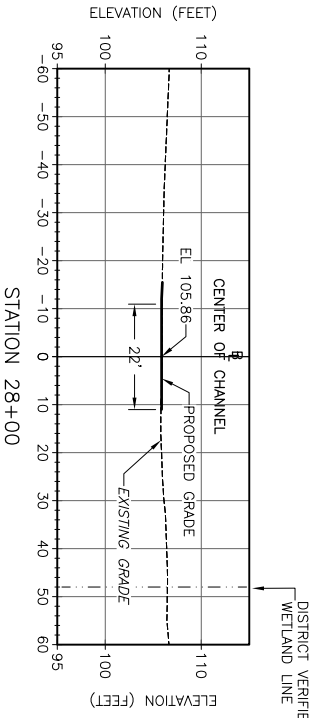
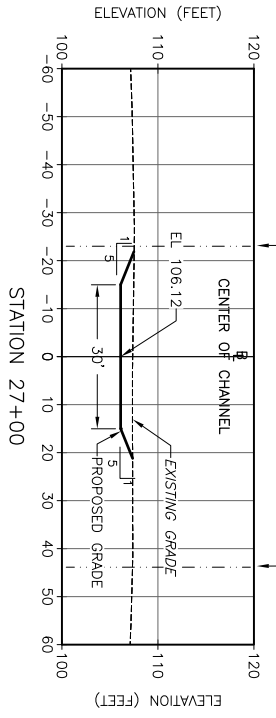
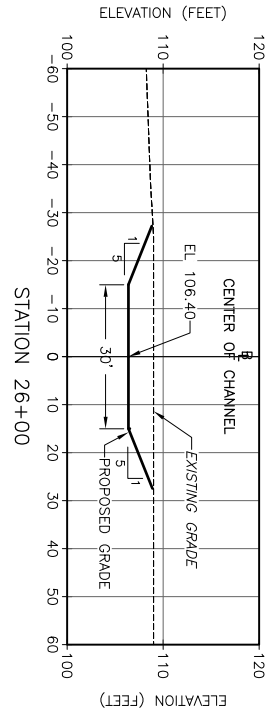
DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WILLIAMS  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

3523 Thomastown Road, Suite 300  
 Tallahassee, FL 32309  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

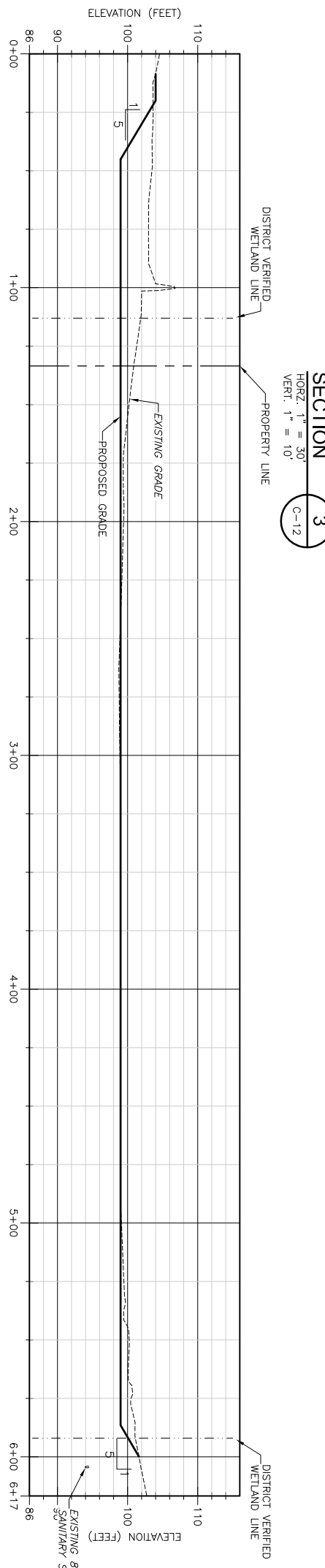
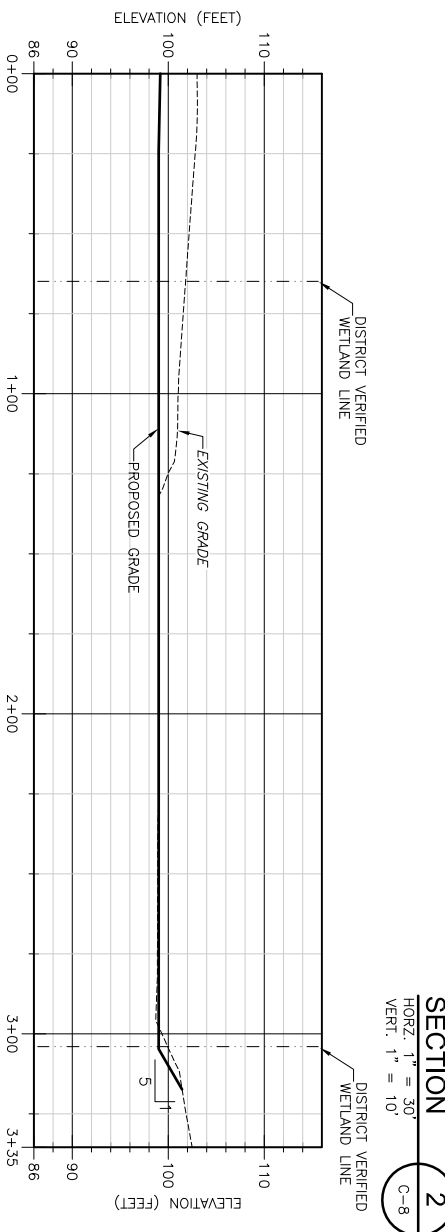
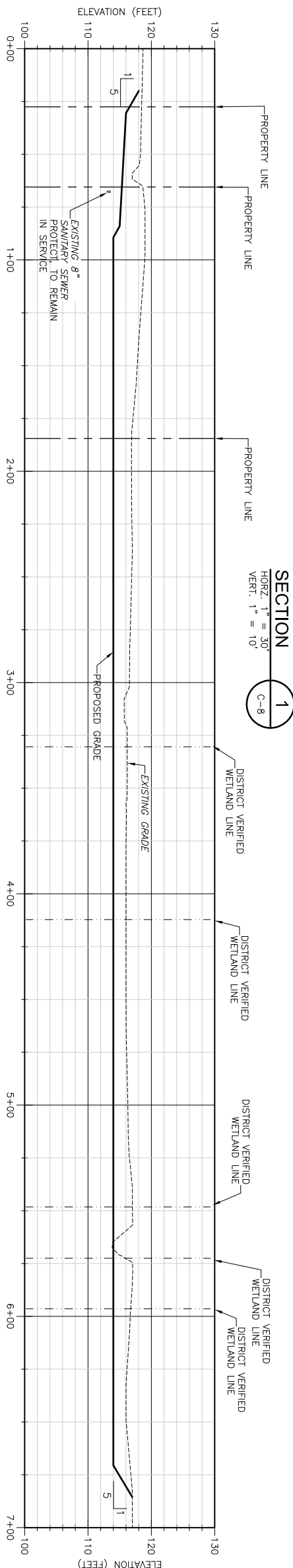
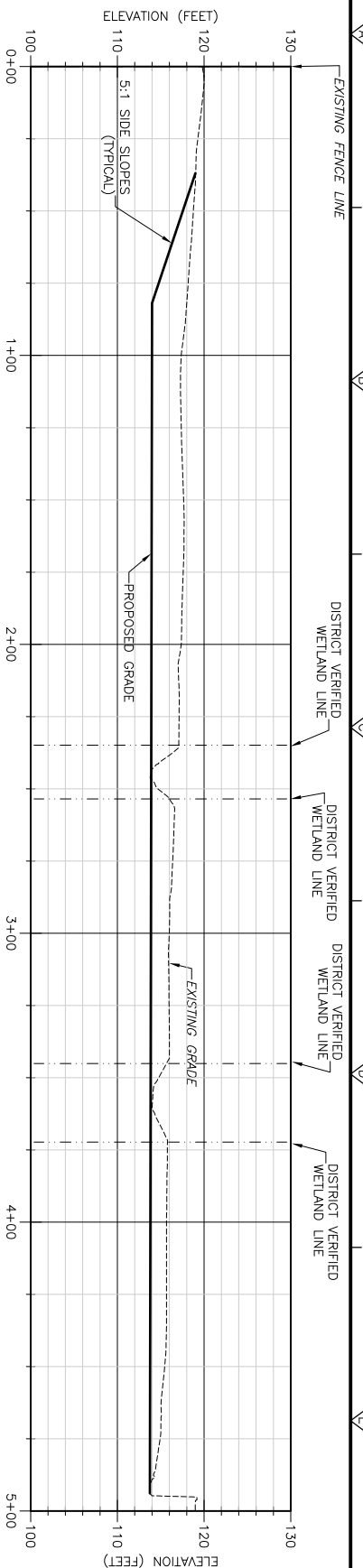
**CHANNEL SECTIONS**

PROJECT NO. 6021-79738  
 FILE NAME: C014XSEC.DWG  
 SHEET NO. C-14  
 DATE: JUNE M. WILLIAMS  
 P.E. NO. 64088



SCALE:  
 HORZ. 1" = 20'  
 VERT. 1" = 10'

NOTES:  
 1. CHANNEL SHALL BE LINED WITH PERMANENT TURF REINFORCEMENT MAT, NORTH AMERICAN GREEN C350 OR APPROVED EQUAL. FERTILIZE AND SEED PRIOR TO INSTALLATION, SEE DETAIL A, SHEET CD-1.  
 2. FILL AREAS WITH IMPORTED COMMON FILL THAT DOES NOT CONTAIN STONES LARGER THAN 4 INCHES IN ANY DIMENSION AND HAS A MAXIMUM OF 20 PERCENT PASSING THE NO. 200 SIEVE. FILL SHALL BE PLACED 12" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.



NOTE:  
 STORAGE AREAS SHALL BE LINED WITH PERMANENT TURF REINFORCEMENT MAT, NORTH AMERICAN GREEN C125 OR APPROVED EQUAL. FERTILIZE AND SEED PRIOR TO INSTALLATION. SEE DETAIL C, SHEET CD-1.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITIG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

**CDM Smith**  
 3522 Thomastown Road, Suite 300  
 Tallahassee, Florida 32309  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**STORAGE AREA SECTIONS**

DATE: JANE M. WILLIAMS  
 P.E. NO. 64088

REV. NO.	DATE	DRWN	CHKD	REMARKS

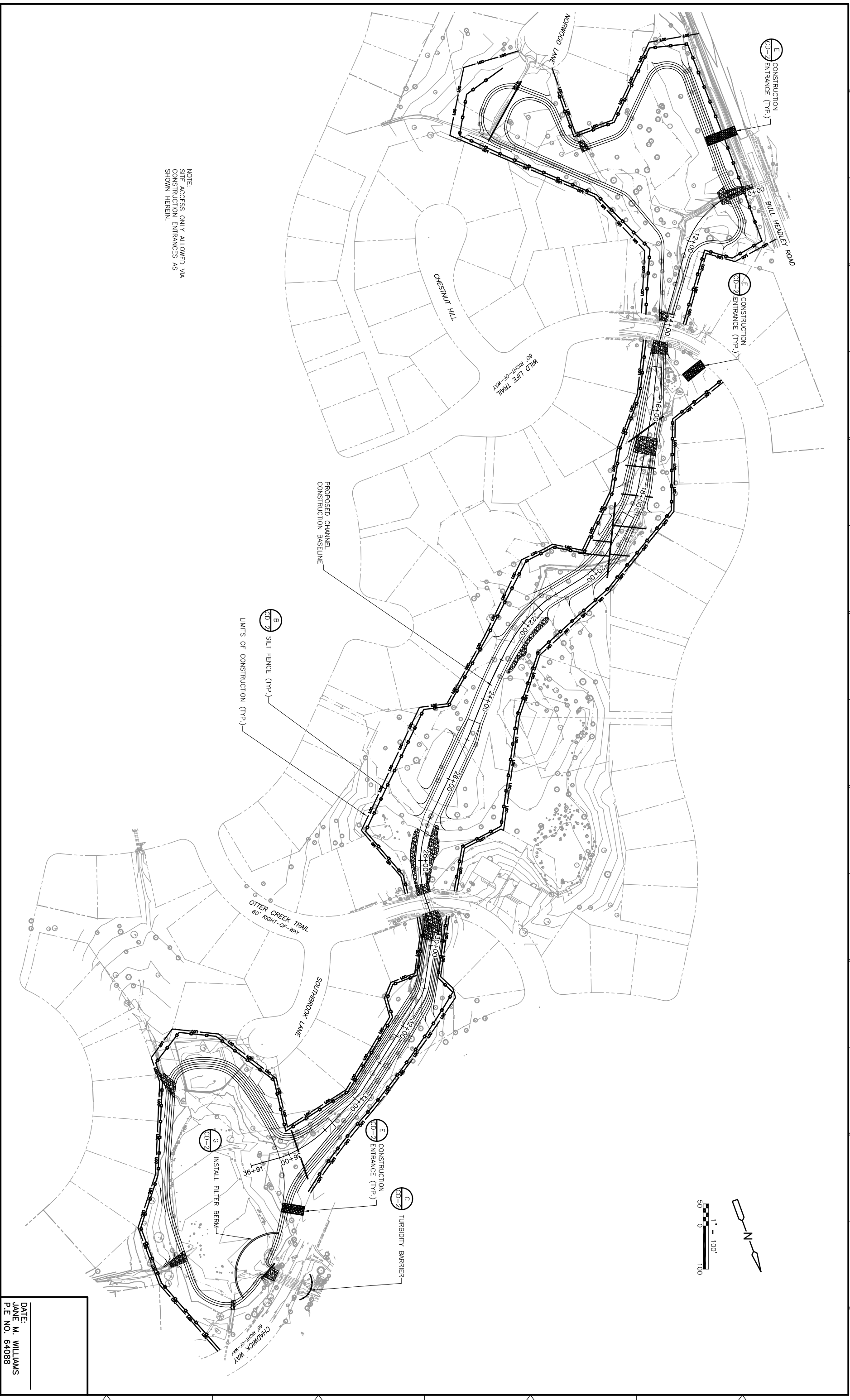
DESIGNED BY: J. WILLIAMS	DRAWN BY: P. ANDUZE
SHEET CHK'D BY: J. HOFFMAN	GROSS CHK'D BY: J. WITTEG
APPROVED BY: J. WILLIAMS	DATE: JULY 2013

**CDM Smith**  
 3522 Thomaston Road, Suite 300  
 Tallahassee, Florida 32309  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**EROSION CONTROL PLAN**

DATE: JANE M. WILLIAMS  
 P.E. NO. 64088  
 PROJECT NO. 6021-79738  
 FILE NAME: C016ERCP.DWG  
 SHEET NO. C-16  
 ISSUED FOR BID



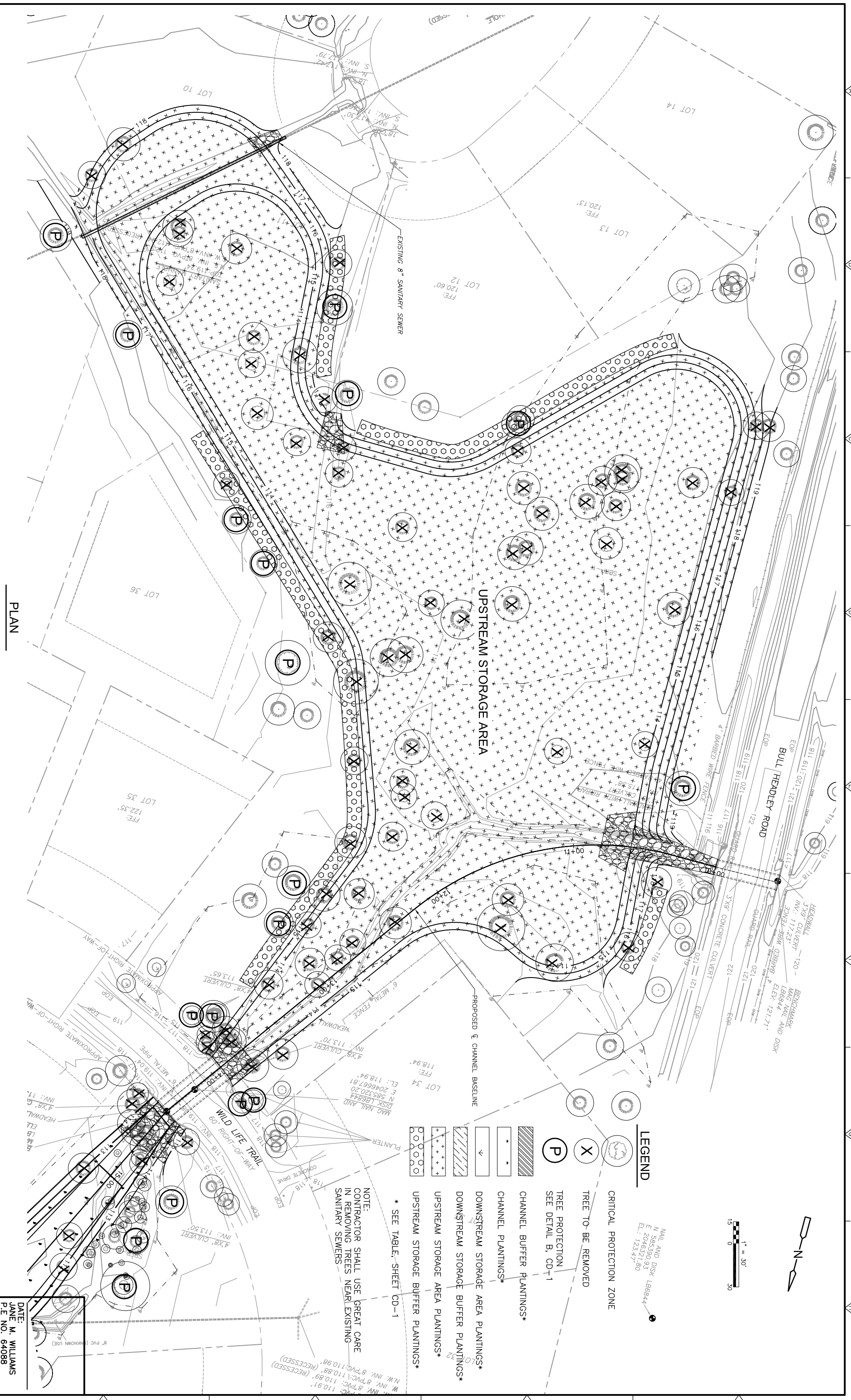
NOTE:  
 SITE ACCESS ONLY ALLOWED VIA  
 CONSTRUCTION ENTRANCES AS  
 SHOWN HEREIN.

REV. NO.	DATE	DRWN	CHKD	REMARKS
DESIGNED BY:	B. BROWN			
DRWN BY:	P. ANDUZE			
SHEET CHK'D BY:	J. HOFFMAN			
GROSS CHK'D BY:	J. WITTEG			
APPROVED BY:	J. WILLIAMS			
DATE:	JULY 2013			

**CDM Smith**  
 3522 Thomastown Road, Suite 300  
 Tallahassee, Florida 32310  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
**SOUTHBROOK FLOODPLAIN ENHANCEMENT**

**PLANTING PLAN**  
 PROJECT NO. 6021-79738  
 FILE NAME: C017PLPN.DWG  
 SHEET NO. C-17  
 ISSUED FOR BID

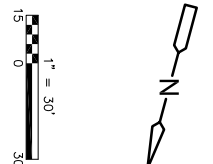


PLAN

**LEGEND**

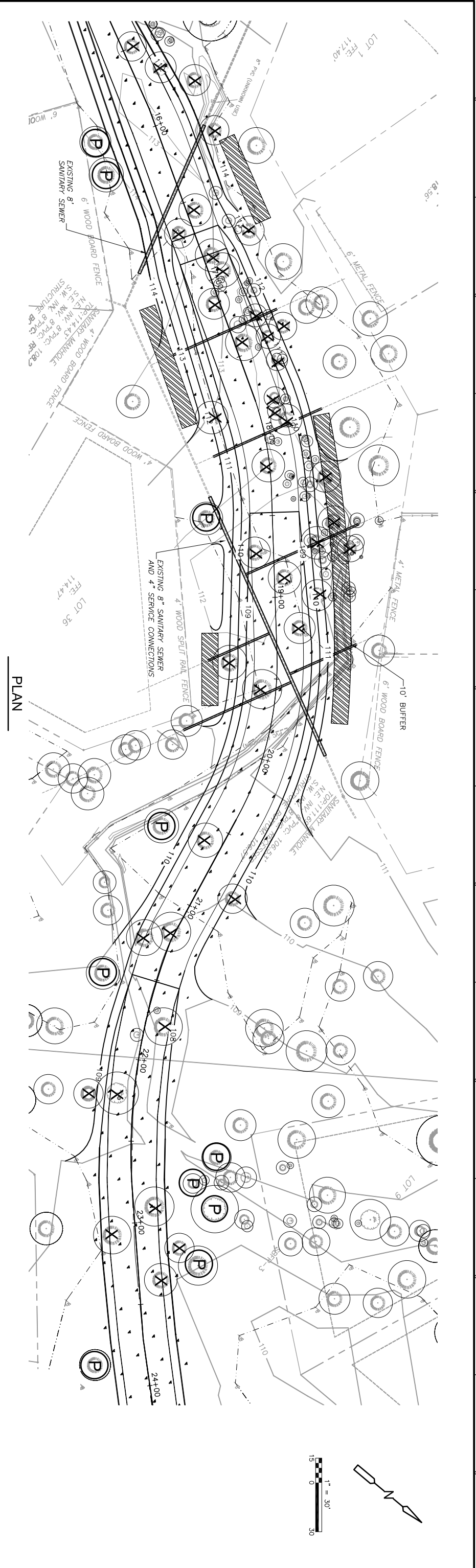
- CRITICAL PROTECTION ZONE
- TREE TO BE REMOVED
- TREE PROTECTION SEE DETAIL B, CD-1
- CHANNEL BUFFER PLANTINGS\*
- DOWNSTREAM STORAGE AREA PLANTINGS\*
- DOWNSTREAM STORAGE BUFFER PLANTINGS\*
- UPSTREAM STORAGE AREA PLANTINGS\*
- UPSTREAM STORAGE BUFFER PLANTINGS\*
- \* SEE TABLE, SHEET CD-1

NOTE:  
 CONTRACTOR SHALL USE GREAT CARE  
 IN REMOVING TREES NEAR EXISTING  
 SANITARY SEWERS

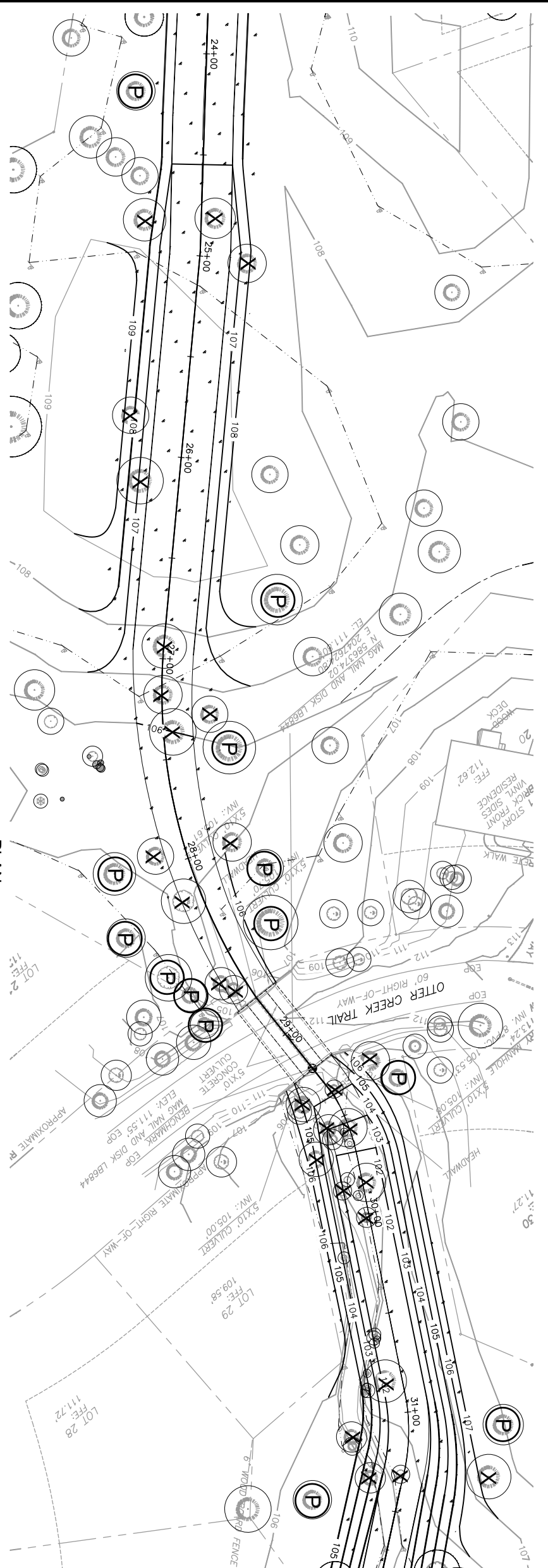
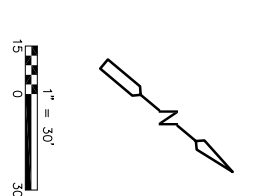


NAIL AND DISK LB6844  
 N 535380.03  
 E 2046321.80  
 EL: 123.47'

W INV. 8' PVC: 110.89' (RECESSED)  
 N.W. INV. 8' PVC: 110.98' (RECESSED)  
 DATE: JUNE M. WILLIAMS  
 P.E. NO. 64088



PLAN



PLAN

**LEGEND**

- CRITICAL PROTECTION ZONE
- TREE TO BE REMOVED
- TREE PROTECTION  
SEE DETAIL B, CD-1
- CHANNEL BUFFER PLANTINGS\*
- CHANNEL PLANTINGS\*
- DOWNSTREAM STORAGE AREA PLANTINGS\*
- DOWNSTREAM STORAGE BUFFER PLANTINGS\*
- UPSTREAM STORAGE AREA PLANTINGS\*
- UPSTREAM STORAGE BUFFER PLANTINGS\*

NOTE:  
 CONTRACTOR SHALL USE GREAT CARE IN REMOVING TREES NEAR EXISTING SANITARY SEWERS

\* SEE TABLE, SHEET CD-1

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. BROWN  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITTEG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

**CDM Smith**  
 3522 Thomaston Road, Suite 300  
 Jacksonville, FL 32224  
 Tel: (904) 396-6500  
 Fl. COA No. EB-0000020

LEON COUNTY, FLORIDA  
 SOUTHBROOK FLOODPLAIN ENHANCEMENT

PLANTING PLAN  
 PROJECT NO. 6021-79738  
 FILE NAME: C018PLPN.DWG  
 SHEET NO. C-18  
 DATE: JANE M. WILLIAMS  
 P.E. NO. 64088

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	B. BROWN
DRAWN BY:	P. ANDUZE
SHEET CHK'D BY:	J. HOFFMAN
GROSS CHK'D BY:	J. WITIG
APPROVED BY:	J. WILLIAMS
DATE:	JULY 2013

**CDM Smith**

3522 Thomaston Road, Suite 300  
 Jacksonville, FL 32217  
 Tel: (904) 396-6500  
 Fax: (904) 396-6500

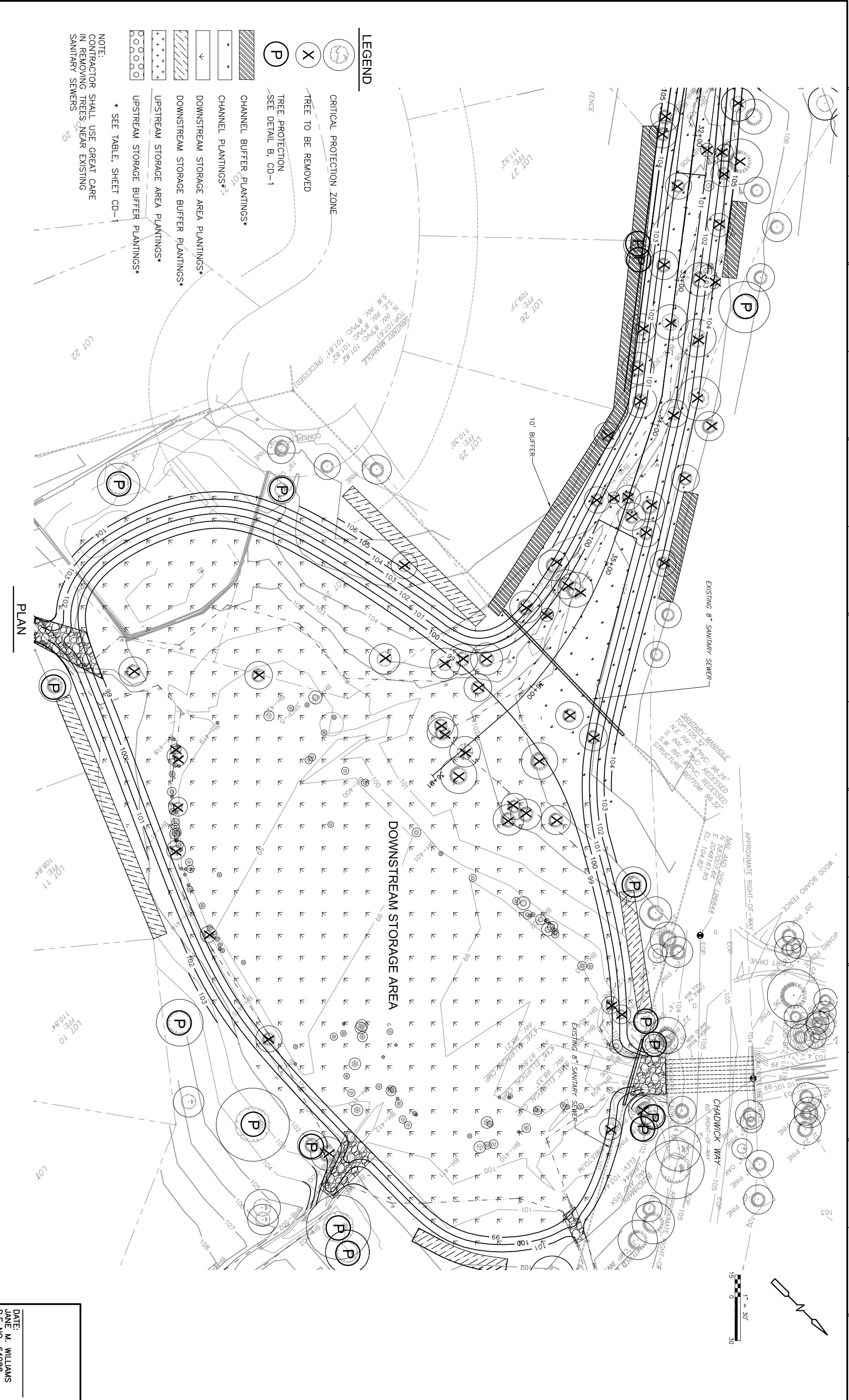
LEON COUNTY, FLORIDA

SOUTHBROOK FLOODPLAIN ENHANCEMENT

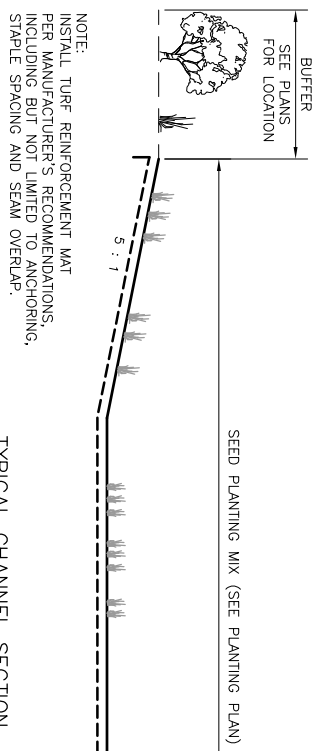
PLANTING PLAN

DATE:	JANNE M. WILLIAMS
PROJECT NO.:	6021-79738
FILE NAME:	C019PLPN.DWG
SHEET NO.:	C-19

ISSUED FOR BID







DETAIL  
A

DETAIL  
C

**PLANTING NOTES**

PLANT SIZES: ALL SIZES SHOWN FOR PLANT MATERIAL ON THE PLAN SHALL BE CONSIDERED AS MINIMUMS. ALL PLANT MATERIALS SHALL MEET OR EXCEED THESE MINIMUM REQUIREMENTS. OTHER REQUIREMENTS FOR SHAPE OR EFFECT AS NOTED ON THE PLAN SHALL BE REQUIRED FOR ACCEPTANCE.

PLANT QUALITY: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AND SHALL BE INSTALLED AS SPECIFIED IN THE 1998 CURRENT EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS STATE OF FLORIDA D.O.A.G. DIVISION OF PLANT INDUSTRY.

PLANT QUANTITIES: PLANT QUANTITIES ARE PROVIDED AS A COURTESY AND SHOULD BE VERIFIED BY THE LANDSCAPE CONTRACTOR PRIOR TO BIDDING.

PLANT LOCATIONS: PLANT LOCATIONS MAY BE FIELD ADJUSTED TO MEET FIELD CONDITIONS AND LEON COUNTY'S CRITERIA.

PLANT INSTALLATION: ALL SYNTHETIC BURGLAR SYNTHETIC STRING OR CORDS OR WIRE BASKETS SHALL BE REMOVED BEFORE ANY TREES ARE PLANTED. ALL SYNTHETIC TAPE SHALL BE REMOVED FROM TRUNKS, BRANCHES, ETC. BEFORE INSTALLATION.

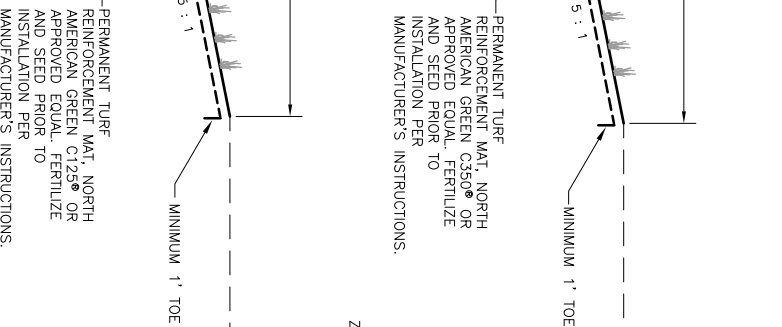
GUARANTEE: ALL PLANT MATERIAL AND WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL JOB ACCEPTANCE. DURING THE ONE YEAR GUARANTEE ANY PLANT MATERIAL THAT DIES OR IS IN AN UNHEALTHY CONDITION SHALL BE REPLACED AT NO ADDITIONAL COST WITH THE SAME PLANT TYPE MATERIAL AT LEAST EQUAL TO THE SIZE AND QUALITY ORIGINALLY SPECIFIED. THE REPLACEMENT MATERIAL SHALL HAVE ONE YEAR GUARANTEE FROM INSTALLATION.

**PLANT INSTALLATION:**

1. THE CONDITION OF THE PROPOSED PLANTING AREAS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLANT INSTALLATION. PLANTING SHALL NOT START UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
2. CONTAINER-GROWN PLANTS SHALL BE PLANTED WITHIN 48 HOURS AFTER REMOVAL FROM GROWING CONTAINERS.
3. PLANTING HOLE SHALL BE CLOSED TO REMOVE AIR POCKETS FROM AROUND ROOT SYSTEMS.
4. PINE STRAW OR SUITABLE MULCH SHALL BE PLACED AT THE BASE OF THE TREE AND SHRUBS TO SUFFICIENTLY COVER A DIAMETER OF THREE FEET.
5. MULCH AND/OR TOP SOIL WILL BE USED AS AN ADDED GROWING MEDIUM FOR EACH TREE AND SHRUB PLANTED. FERTILIZER SHALL BE ADDED AS NECESSARY FOR SUCCESSFUL GROWTH.
6. SHRUBS AND TREES SHALL BE WATERED AFTER INSTALLATION.
7. FERTILIZE AND SEED AREAS PRIOR TO THE INSTALLATION OF PERMANENT TURF REINFORCEMENT MAT.

**GENERAL NOTES:**

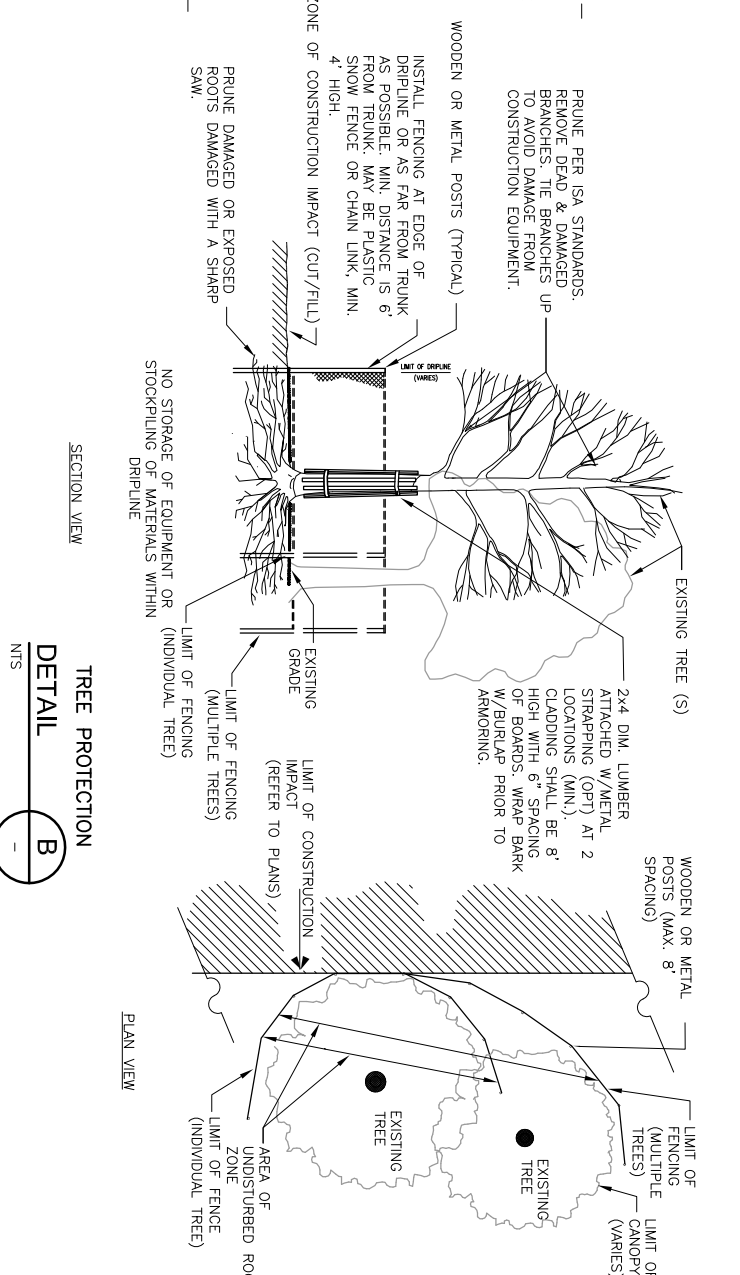
1. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL SOD, WEEDS, DEBRIS, ETC.
2. THE LANDSCAPE CONTRACTOR SHALL BE PROVIDED TO LEON COUNTY WITHIN 30 DAYS OF NOTICE TO PROCEED.
3. GROUDED TREES SHALL NOT BE ACCEPTED. CONTRACTOR SHALL CHECK PLANTING PLANS, PLANT LIST, PLANTING SPECIFICATIONS, AND ALL EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO LEON COUNTY PRIOR TO COMMENCEMENT OF WORK.
4. PLANT QUANTITIES ARE PROVIDED AS A COURTESY AND SHOULD BE VERIFIED BY CONTRACTOR PRIOR TO BIDDING.
5. PLANT LOCATION MAY BE FIELD ADJUSTED TO MEET FIELD CONDITIONS AND LEON COUNTY'S CRITERIA.
6. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM FINAL DATE OF JOB ACCEPTANCE.
7. ALL SYNTHETIC BURGLAR STRING, CORDS, OR THE TOP 1/3 OF WIRE BASKET SHALL BE REMOVED BEFORE ANY TREES ARE PLANTED. ALL PLANTING BEDS SHALL BE FREE OF SHELL ROCK AND CONSTRUCTION DEBRIS AND SHALL BE EXCAVATED TO A DEPTH OF 18" OR TO CLEAN NATIVE SOILS AND BACKFILLED WITH TOPSOIL.



**PLANTING PLAN**

AREA	COMMON NAME	SCIENTIFIC NAME	SIZE	DENSITY	ACRES	TOTAL PLANTS
CHANNEL BUFFER	REDBUD	<i>Cercis canadensis</i>	15 GALLON OR GREATER	15 FOOT CENTERS	0.2	58
	WAX MYRTLE	<i>Morella cerifera</i>	7 GALLON OR GREATER	15 FOOT CENTERS	0.2	58
CHANNEL	FLORIDA ANISE	<i>Illicium floridanum</i>	1 GALLON OR GREATER	15 FOOT CENTERS	2.7	58
	REDTOP PANICGRASS	<i>Panicum rigidulum</i>	N/A	N/A	N/A	N/A
DOWNSTREAM AND UPSTREAM STORAGE AREA	WILDRYE	<i>Elymus virginicus</i>	N/A	N/A	N/A	N/A
	BEAKED PANICGRASS	<i>Panicum anceps</i>	N/A	N/A	N/A	N/A
DOWNSTREAM STORAGE BUFFER	COMMON SNEEZEWEED	<i>Helenium autumnale</i>	N/A	N/A	N/A	N/A
	LURID SEDGE	<i>Carex lurida</i>	N/A	N/A	N/A	N/A
UPSTREAM STORAGE BUFFER	IRIS	<i>Iris virginica</i>	N/A	N/A	6.2	N/A
	CRIMSONEYED ROSEMALLOW	<i>Hibiscus moscheutos</i>	N/A	N/A	N/A	N/A
UPSTREAM STORAGE BUFFER	FLORIDA PASPALUM	<i>Paspalum floridanum</i>	N/A	N/A	N/A	N/A
	BEAKED PANIC GRASS	<i>Panicum anceps</i>	N/A	FLORIDA WET MEADOW MIX (15 LBS./ACRE)	N/A	N/A
UPSTREAM STORAGE BUFFER	LONGLEAF PANICUM	<i>Panicum longifolium</i>	N/A	N/A	N/A	N/A
	GIANT IRONWEED	<i>Vernonia gigantea</i>	N/A	N/A	N/A	N/A
DOWNSTREAM STORAGE BUFFER	BONASET	<i>Bygonesia perfoliata</i>	N/A	N/A	N/A	N/A
	GOLDENROD	<i>Solidago fistulosa</i>	N/A	N/A	N/A	N/A
UPSTREAM STORAGE BUFFER	RED MAPLE	<i>Acer rubrum</i>	15 GALLON OR GREATER	15 FOOT CENTERS	0.1	30
	SWEETBAY MAGNOLIA	<i>Magnolia virginiana</i>	7 GALLON OR GREATER	15 FOOT CENTERS	0.2	30
UPSTREAM STORAGE BUFFER	SALTBUCH	<i>Baccharis halimifolia</i>	7 GALLON OR GREATER	15 FOOT CENTERS	0.2	30
	SWAMP CHESTNUT OAK	<i>Quercus michauxii</i>	15 GALLON OR GREATER	20 FOOT CENTERS	0.2	42
UPSTREAM STORAGE BUFFER	SOUTHERN MAGNOLIA	<i>Magnolia grandiflora</i>	15 GALLON OR GREATER	20 FOOT CENTERS	0.2	42

NOTE: PLANTS IN BUFFERS TO BE PLANTED IN A SINGLE, STAGGERED LINE. STORAGE AREA AND CHANNEL TO BE SEEDDED WITH ERNST CONSERVATION SEED MIX 600 AND 185 OR EQUIVALENT. N/A INDICATES NOT APPLICABLE.



**TREE PROTECTION AND MITIGATION GENERAL NOTES**

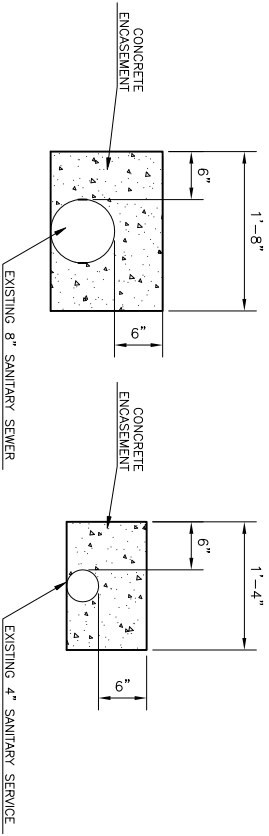
PROTECTION OF EXISTING TREES TO REMAIN  
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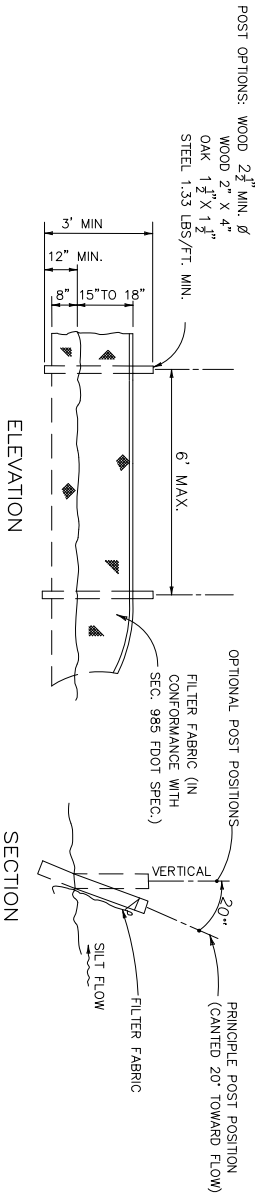
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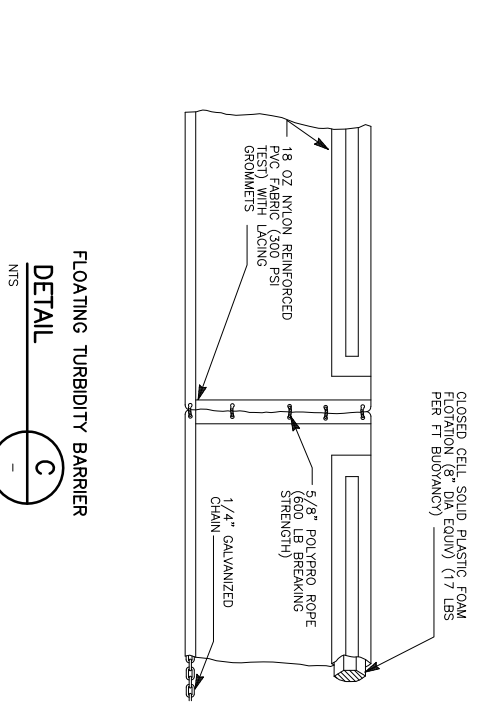
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PROJECT NO.:	6021-79738
FILE NAME:	CD01DETL.DWG
SHEET NO.:	CD-1



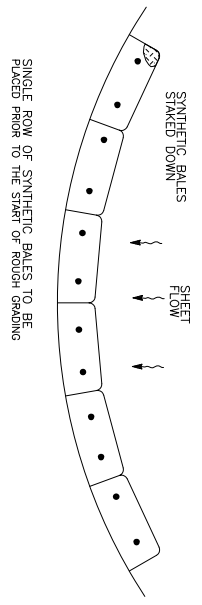
**DETAIL A**  
 SANITARY SEWER ENCASEMENT  
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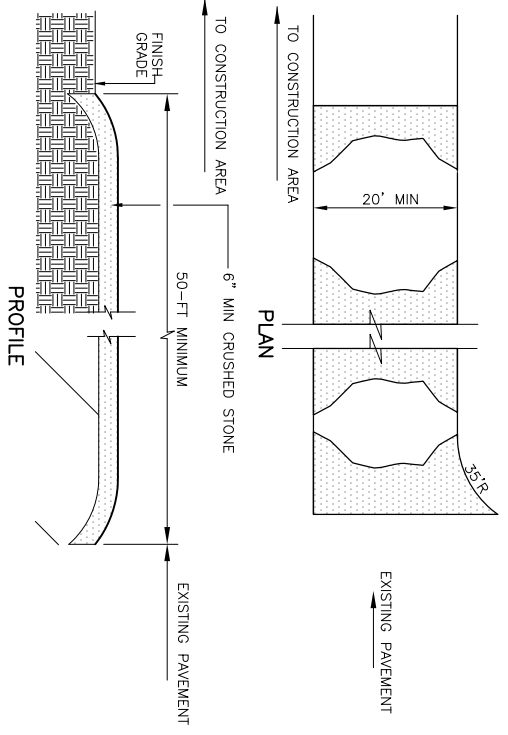
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 SILT FENCE  
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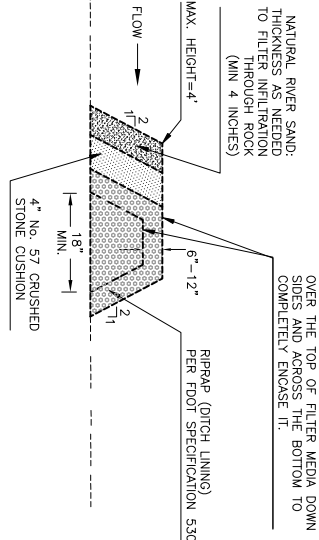
**DETAIL C**  
 FLOATING TURBIDITY BARRIER  
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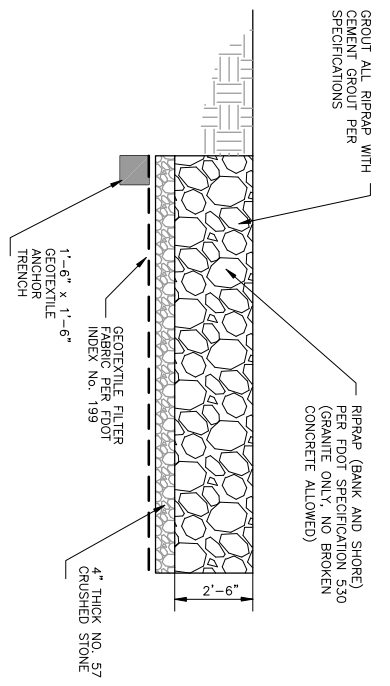
**DETAIL D**  
 TEMPORARY SYNTHETIC BALE SEDIMENT BARRIER  
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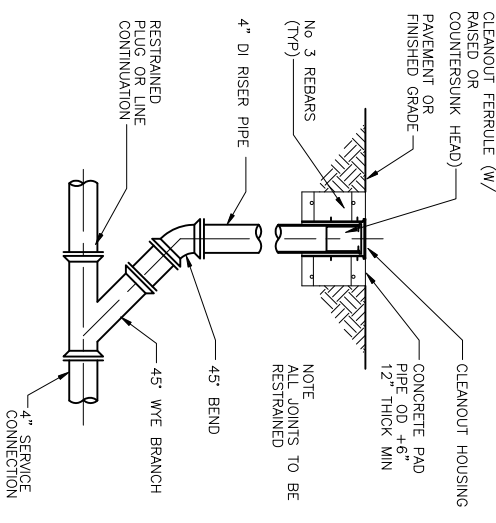
**DETAIL E**  
 TEMPORARY CONSTRUCTION ENTRANCE  
 NTS



**DETAIL G**  
 FILTER BERM  
 NTS



**DETAIL F**  
 RIPRAP  
 NTS



**DETAIL H**  
 PIPE LINE CLEANOUT  
 NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. WILLIAMS  
 DRAWN BY: P. ANDUZE  
 SHEET CHK'D BY: J. HOFFMAN  
 GROSS CHK'D BY: J. WITIG  
 APPROVED BY: J. WILLIAMS  
 DATE: JULY 2013

**CDM Smith**  
 3523 Thomastown Road, Suite 300  
 Tallahassee, FL 32309  
 Tel: (904) 396-6500  
 Fax: (904) 396-6500  
 FL COA No. EB-0000020

LEON COUNTY, FLORIDA  
 SOUTHBROOK FLOODPLAIN ENHANCEMENT

CIVIL DETAILS

DATE: JUNE M. WILLIAMS  
 P.E. NO. 64088  
 PROJECT NO. 6021-79738  
 FILE NAME: CD02DEL.DWG  
 SHEET NO. CD-2