

APPROXIMATE TIDAL DATUMS

DATUM	ELEVATION (NAVD88)
MEAN HIGHER-HIDE WATER (MHHW)	0.59
MEAN HIGH WATER (MHW)	0.54
MEAN SEA LEVEL (MSL)	-0.21
MEAN LOW WATER (MLW)	-1.05
MEAN LOWER-LOW WATER (MLLW)	-1.15

SOURCE: NOAA (VALUES ARE INTERPOLATED BETWEEN THE MAIN STREET BRIDGE AND BUCKMAN BRIDGE TIDE STATIONS)

STORM SURGE ELEVATIONS

ANNUAL CHANCE EVENT	ELEVATION (NAVD88)
10%	2.4
4%	2.6
2%	3.2
1%	4.0
0.20%	5.9
HURRICANE IRMA	5.5

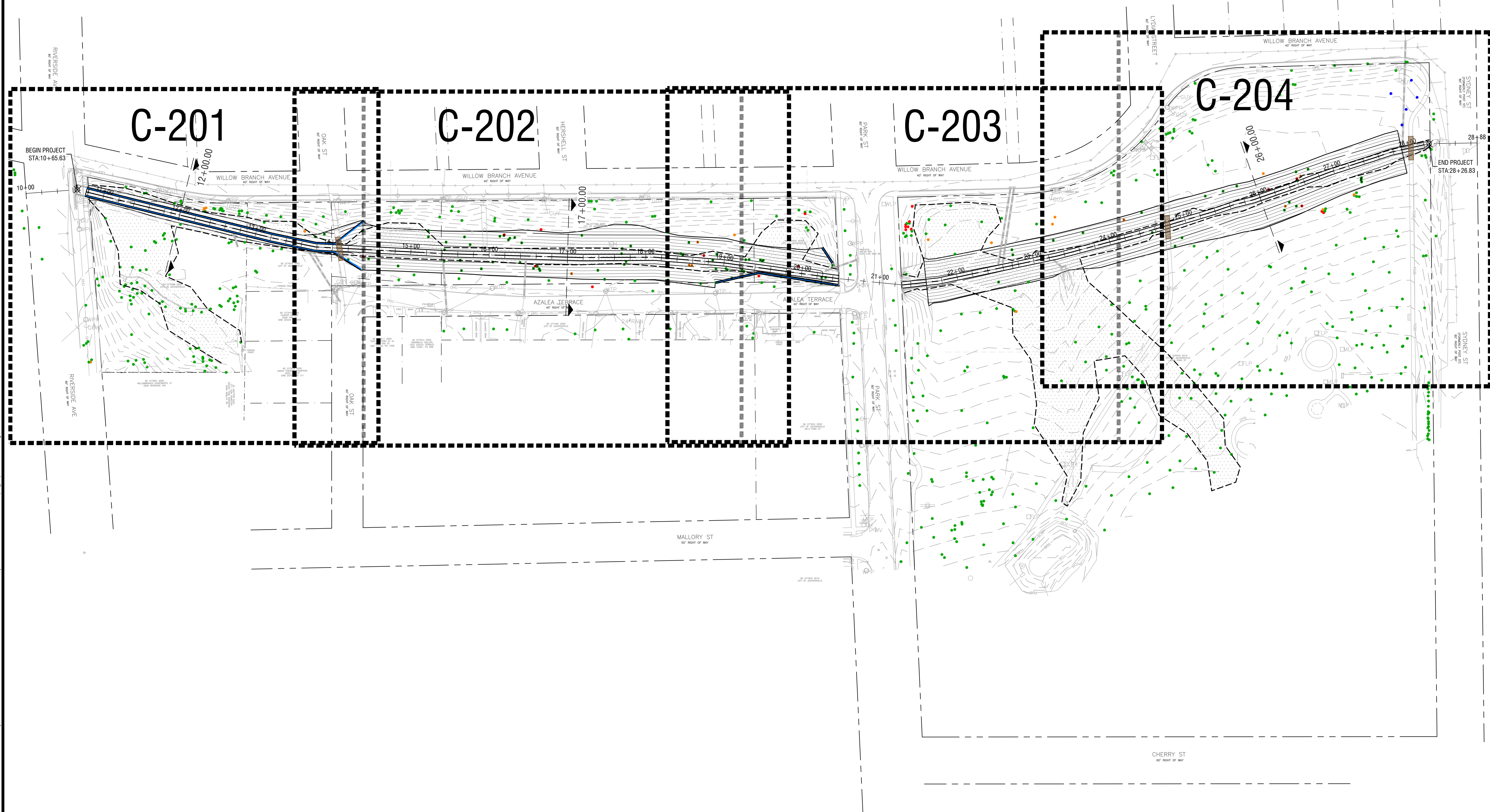
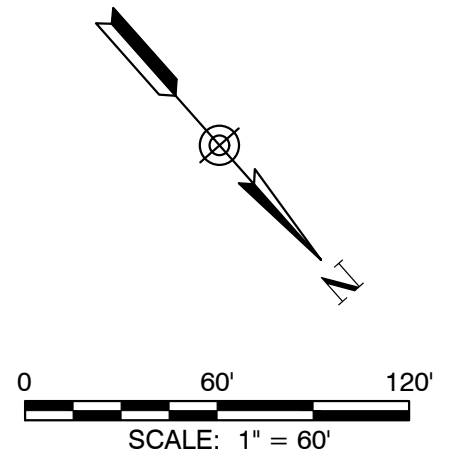
SOURCE: FEMA FLOOD INSURANCE STUDY

TREES REMOVED

SPECIES	PROTECTED		COUNT REMOVED
	INCHES REMOVED		
COTTONWOOD	9		1
HICKORY	91		4
LIGUSTRUM	10		1
MAGNOLIA	54		2
MO	193		9
MYRTLE	51		2
OAK	547		29
WATER OAK	34		2
PALM	549		32
PECAN	18		1
SWEETGUM	179		8
WILLOW	16		1
TOTAL	1,751		92
NOT PROTECTED			
CAMPBOR	89		5
MULBERRY	108		4
TOTAL	197		9

LEGEND

- PEDESTRIAN BRIDGE TO BE REPLACED
- PROPOSED ENVIROLOCK GEOBAG STABILIZED SLOPE
- PROPOSED ENVIROLOCK GEOBAG AND/OR ROLANKA BID-BLOCK STABILIZED SLOPE
- PROPOSED CHANNEL CENTERLINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREE - PROTECTED
- EXISTING TREE - INVASIVE
- EXISTING TREE - DEAD/DISEASED/DYING
- EXISTING TREE - MEMORIAL
- EXISTING TREE - IMPACTED/REMOVED
- WETLAND LINE
- RIGHT OF WAY LINE
- EXISTING STORM PIPE



PROJECT NAME
WILLOW BRANCH CANAL STABILIZATION
 PREPARED FOR
CITY OF JACKSONVILLE
 DEPARTMENT OF PUBLIC WORKS

9985 GATE PARKWAY N. SUITE 200
 JACKSONVILLE, FLORIDA USA 32246
 PHONE 904.730.8360 WWW.HALFF.COM
 FL CA 33380 FLC 26000645

NO.	DATE	DESCRIPTION

SEAL

MICHAEL A. COFFEY, PH.D., PE.
 LEED AP LICENSE # 57412






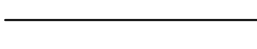





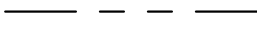
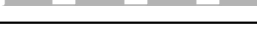

PRELIMINARY - NOT FOR CONSTRUCTION

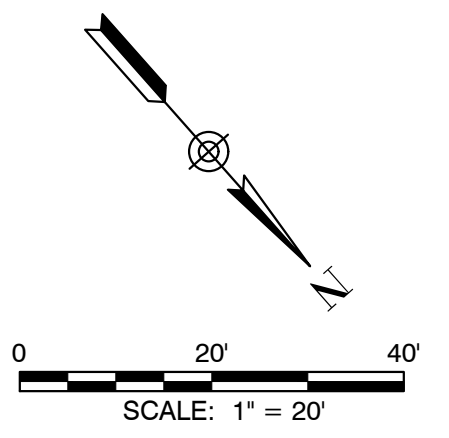
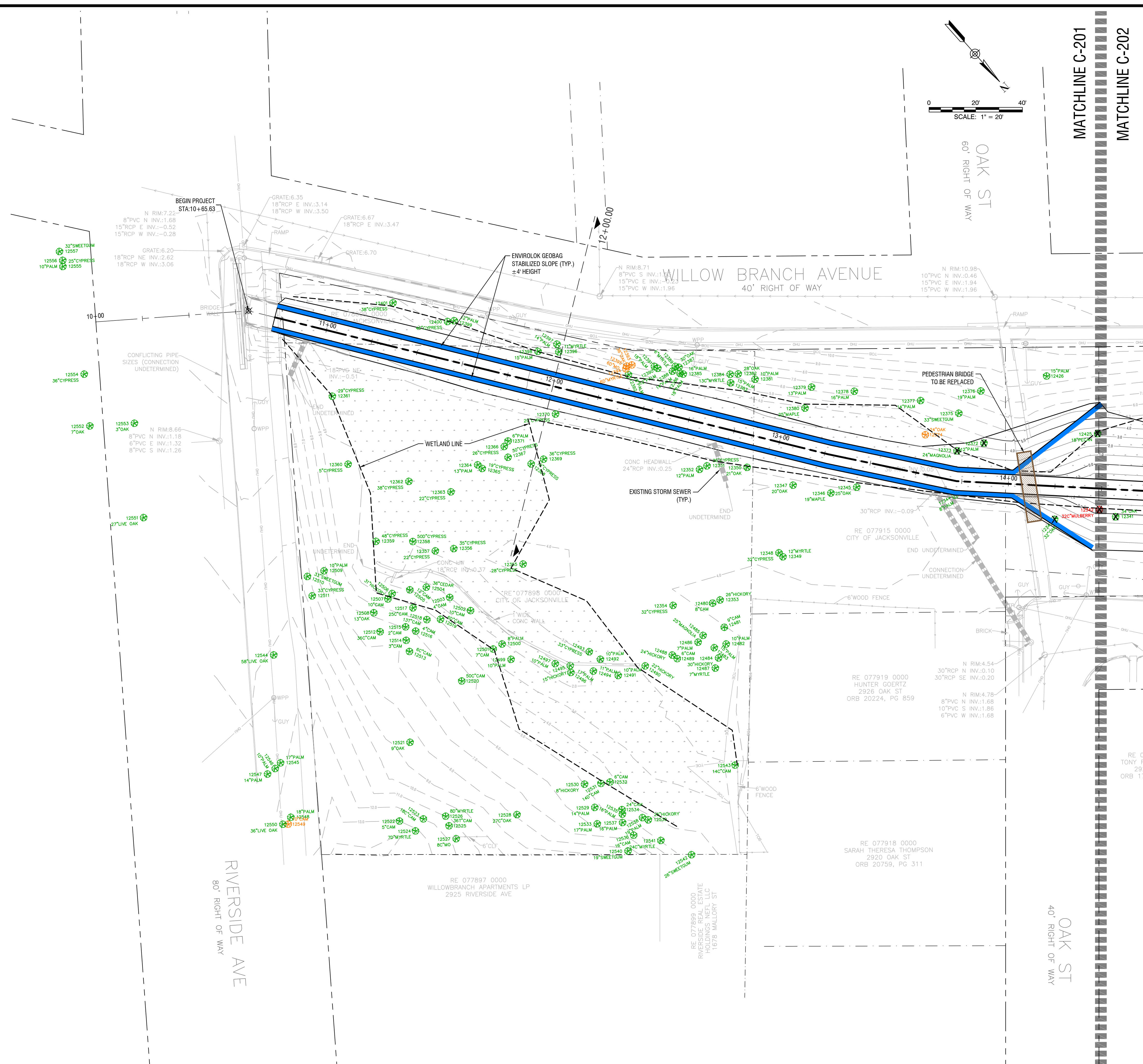
PROJECT NO.:	47408.001
ISSUED:	2/29/2024
DRAWN BY:	NTD
CHECKED BY:	MAC
SCALE:	1" = 20'

CONCEPT 1 OVERALL GRADING PLAN

C-200

LEGEND

-  PEDESTRIAN BRIDGE TO BE REPLACED
-  PROPOSED ENVIROLOCK GEOBAG STABILIZED SLOPE
-  PROPOSED ENVIROLOCK GEOBAG AND/OR ROLANKA BIOD-BLOCK STABILIZED SLOPE
-  PROPOSED CHANNEL CENTERLINE
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  EXISTING TREE - PROTECTED
-  EXISTING TREE - INVASIVE
-  EXISTING TREE - DEAD/DISEASED/DYING
-  EXISTING TREE - MEMORIAL
-  EXISTING TREE - IMPACTED/REMOVED
-  WETLAND LINE
-  RIGHT OF WAY LINE
-  EXISTING STORM PIPE



MATCHLINE C-201
MATCHLINE C-202

WILLOW BRANCH CANAL STABILIZATION
CITY OF JACKSONVILLE
DEPARTMENT OF PUBLIC WORKS

9885 GATE PARKWAY N, SUITE 200
JACKSONVILLE, FLORIDA USA 32246
PHONE 904.730.8360 WWW.HALFF.COM
FL CA 33380 FL LC 26000645

NO.	DATE	DESCRIPTION

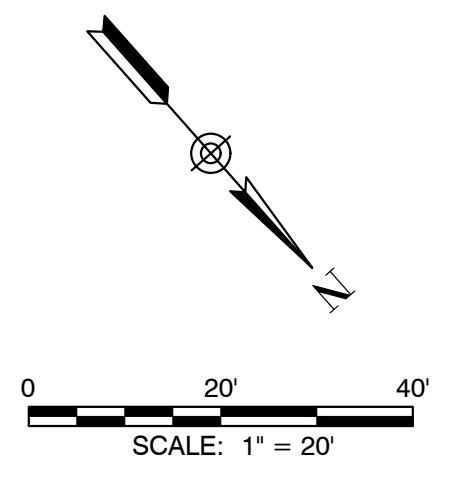
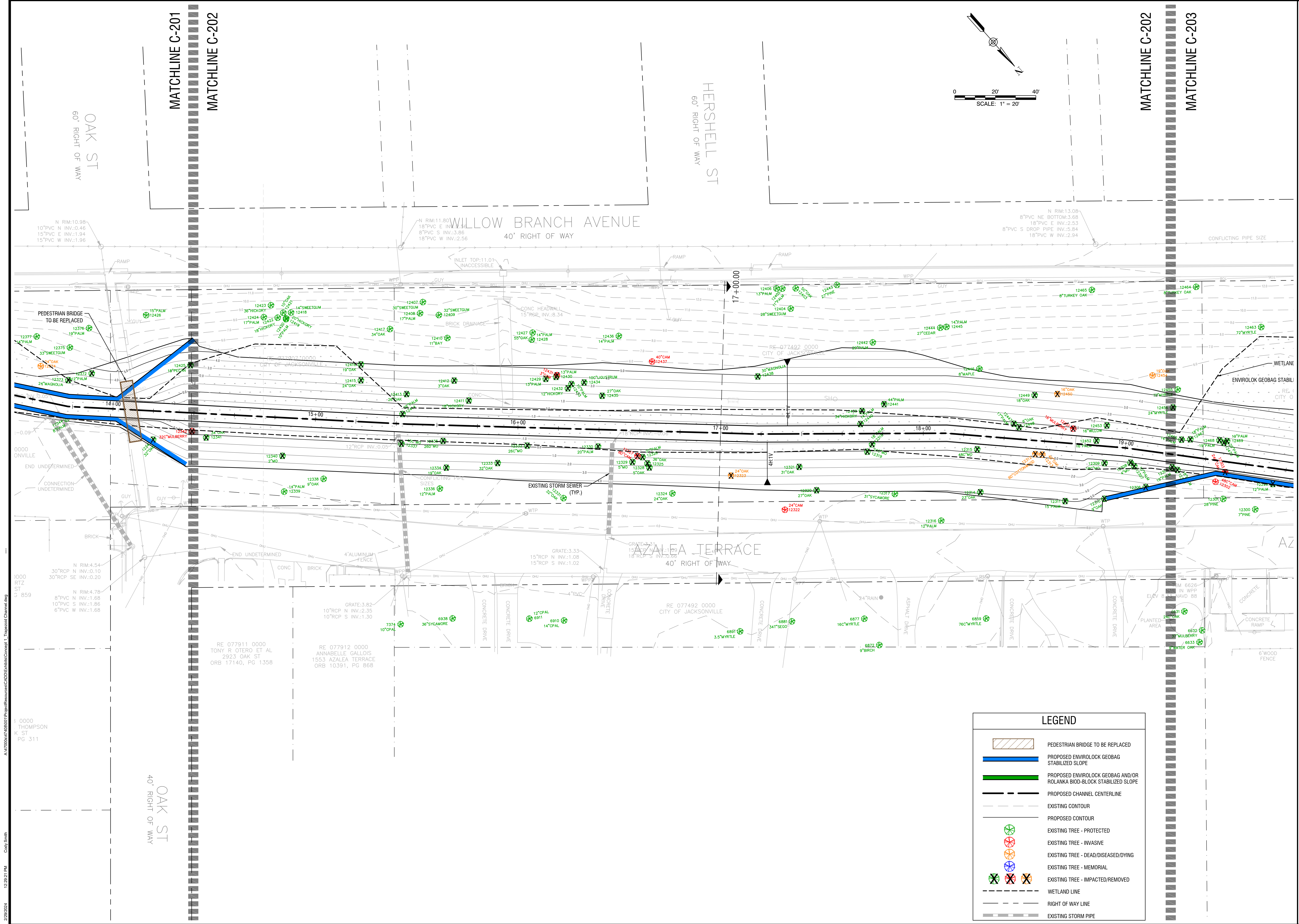
SEAL
MICHAEL A. COFFEY, PH.D., PE.
LEED AP LICENSE # 57412

PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT NO.: 47408.001
ISSUED: 2/29/2024
DRAWN BY: NTD
CHECKED BY: MAC
SCALE: 1"= 20'

CONCEPT 1 GRADING PLAN

C-201



PROJECT NAME
WILLOW BRANCH CANAL STABILIZATION

PREPARED FOR
CITY OF JACKSONVILLE
 DEPARTMENT OF PUBLIC WORKS



NO.	DATE	DESCRIPTION

SEAL

MICHAEL A. COFFEY, PH.D., PE.
 LEED AP LICENSE # 57412

PRELIMINARY - NOT FOR CONSTRUCTION

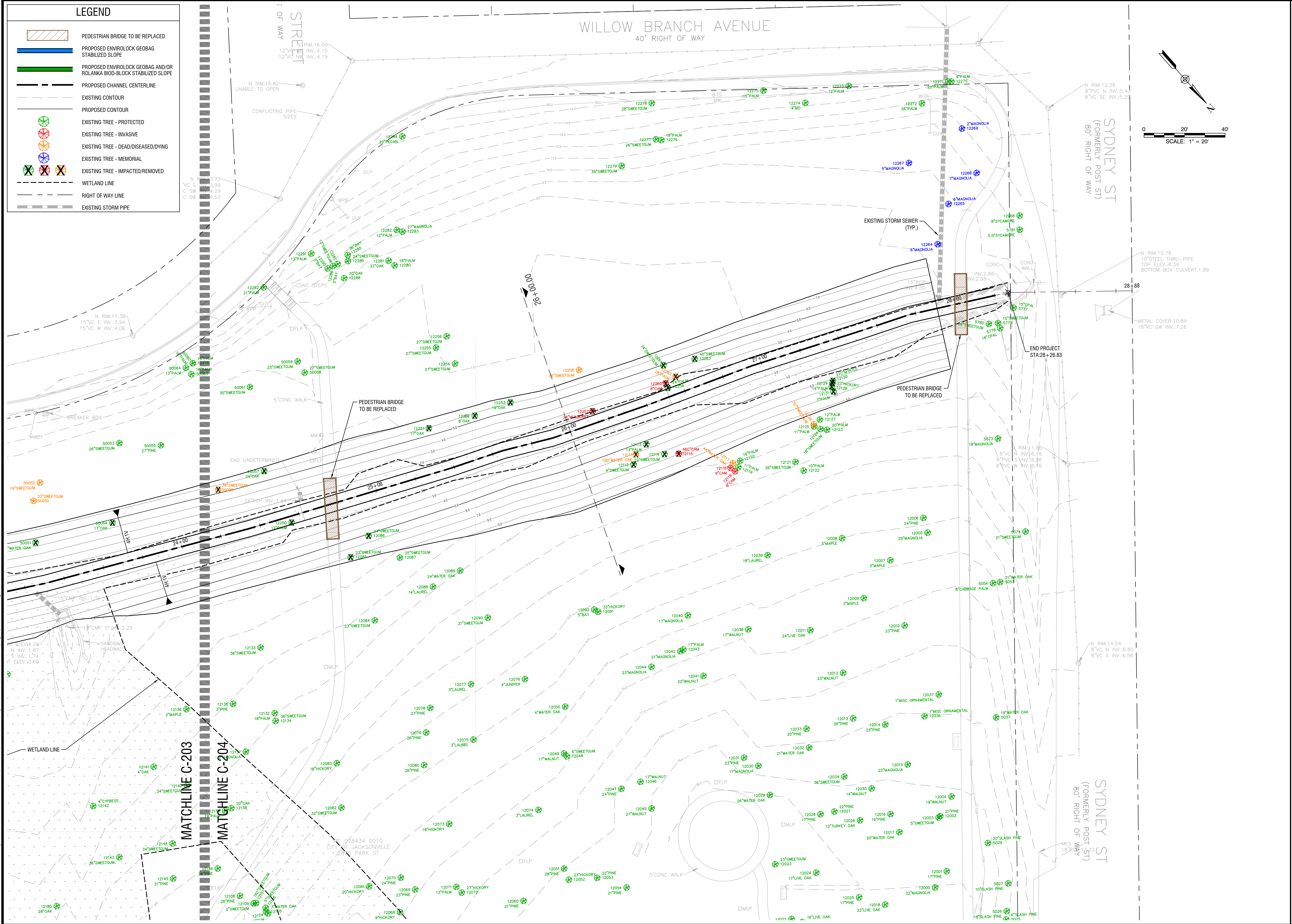
PROJECT NO.: 47408.001
 ISSUED: 2/29/2024
 DRAWN BY: NTD
 CHECKED BY: MAC
 SCALE: 1" = 20'

CONCEPT 1 GRADING PLAN

C-202

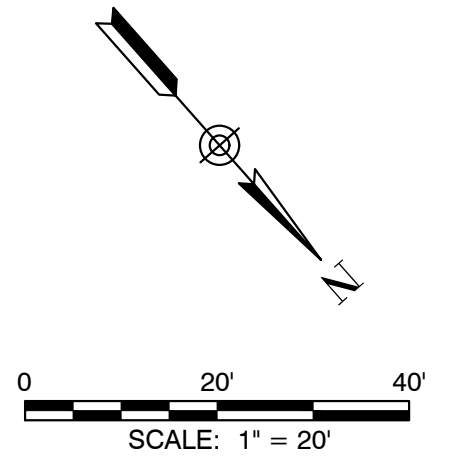
LEGEND	
	PEDESTRIAN BRIDGE TO BE REPLACED
	PROPOSED ENVIROLOK GEOBAG STABILIZED SLOPE
	PROPOSED ENVIROLOK GEOBAG AND/OR ROLANKA BIOD-BLOCK STABILIZED SLOPE
	PROPOSED CHANNEL CENTERLINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING TREE - PROTECTED
	EXISTING TREE - INVASIVE
	EXISTING TREE - DEAD/DISEASED/DYING
	EXISTING TREE - MEMORIAL
	EXISTING TREE - IMPACTED/REMOVED
	WETLAND LINE
	RIGHT OF WAY LINE
	EXISTING STORM PIPE

2/29/2024 12:29:21 PM C:\Users\smth\OneDrive\Desktop\Projects\Revised\CAD\Enviroment\CAD\Enviroment\Concept 1 - Truncated Channel.dwg I:\0000 THOMPSON K ST PG 311 A:\47408\14748001\Project\Revised\CAD\Enviroment\Concept 1 - Truncated Channel.dwg



LEGEND

	PEDESTRIAN BRIDGE TO BE REPLACED
	PROPOSED ENVIROLOCK GEOBAG STABILIZED SLOPE
	PROPOSED ENVIROLOCK GEOBAG AND/OR ROLANKA BIOD-BLOCK STABILIZED SLOPE
	PROPOSED CHANNEL CENTERLINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING TREE - PROTECTED
	EXISTING TREE - INVASIVE
	EXISTING TREE - DEAD/DISEASED/DYING
	EXISTING TREE - MEMORIAL
	EXISTING TREE - IMPACTED/REMOVED
	WETLAND LINE
	RIGHT OF WAY LINE
	EXISTING STORM PIPE



WILLOW BRANCH CANAL STABILIZATION
 PROJECT NAME

CITY OF JACKSONVILLE
 DEPARTMENT OF PUBLIC WORKS

PREPARED FOR



9985 GATE PARKWAY N, SUITE 200
 JACKSONVILLE, FLORIDA USA 32246
 PHONE 904.730.8360 WWW.HALFF.COM
 FL CA 33380 FLC 26000645

NO.	DATE	DESCRIPTION

SEAL

MICHAEL A. COFFEY, PH.D., PE.
 LEED AP LICENSE # 57412

PRELIMINARY - NOT FOR CONSTRUCTION

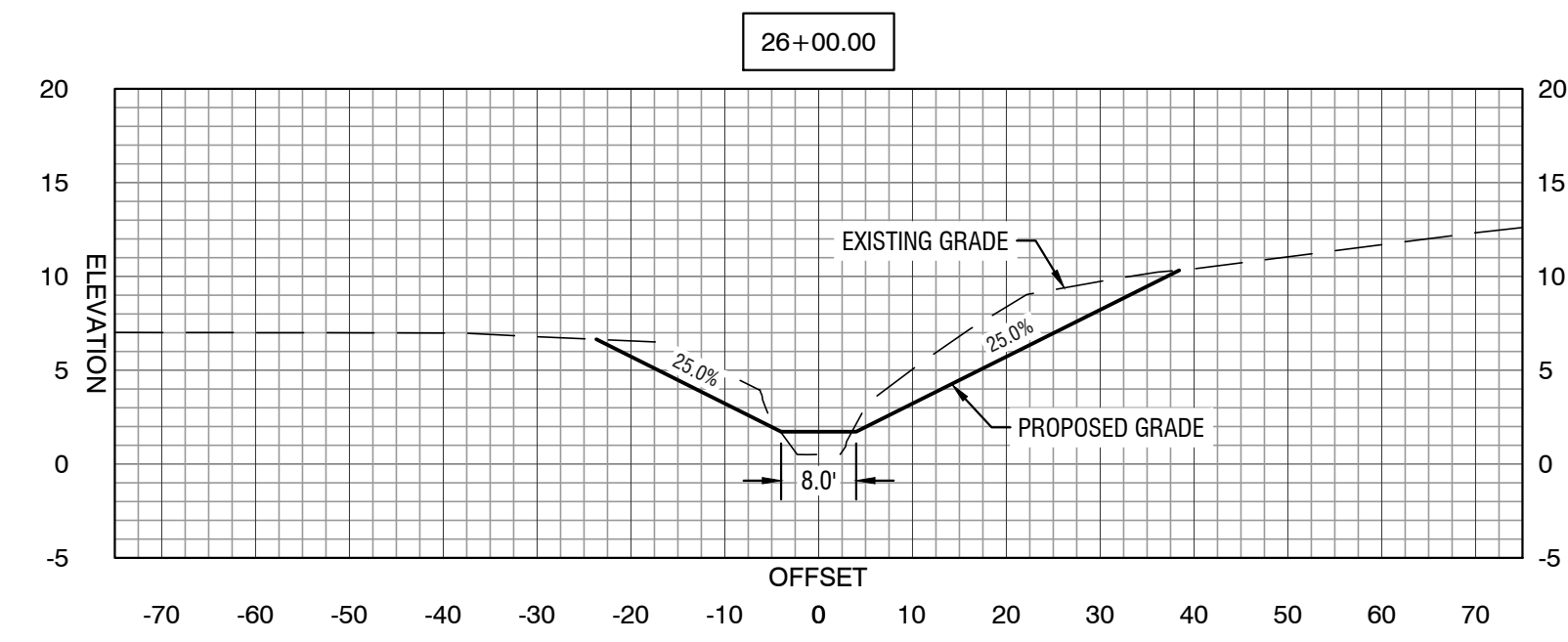
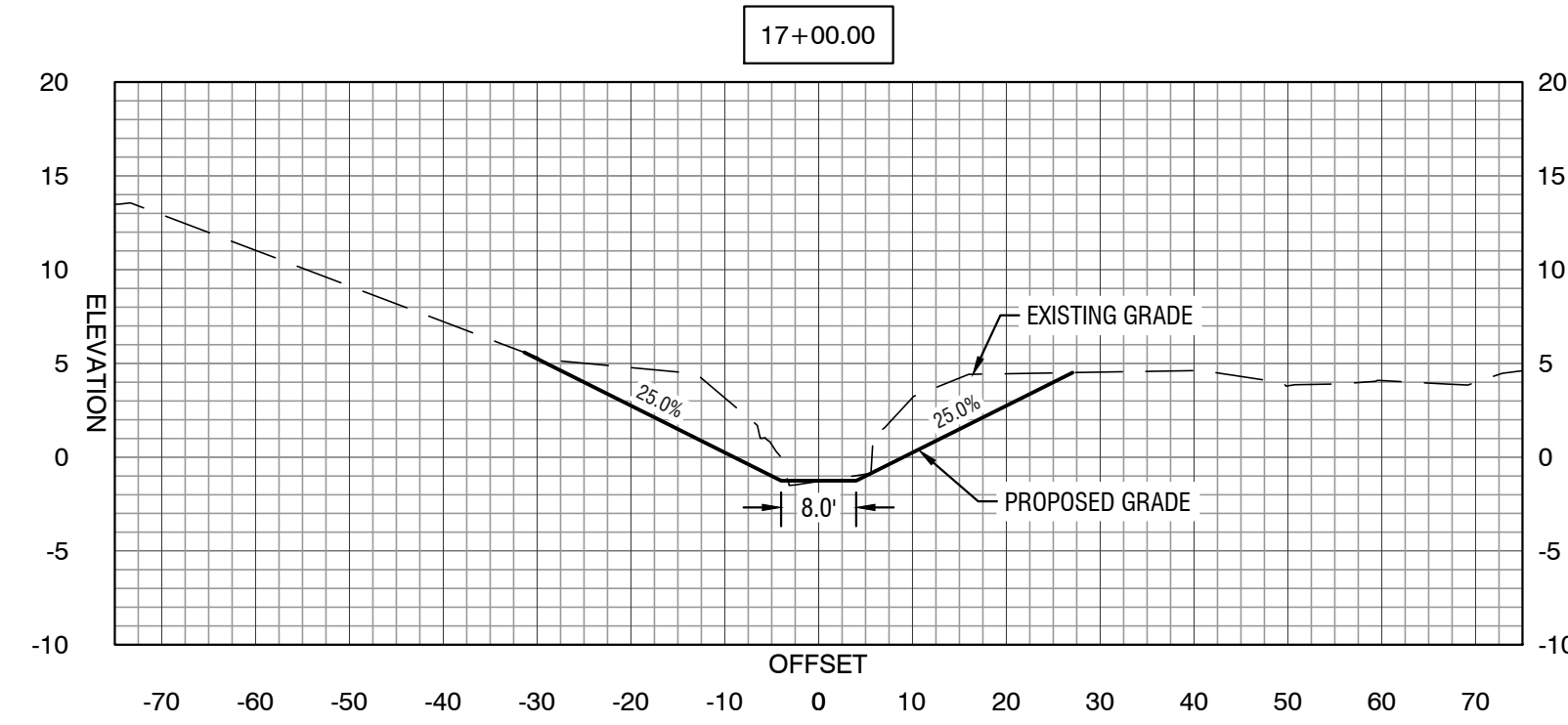
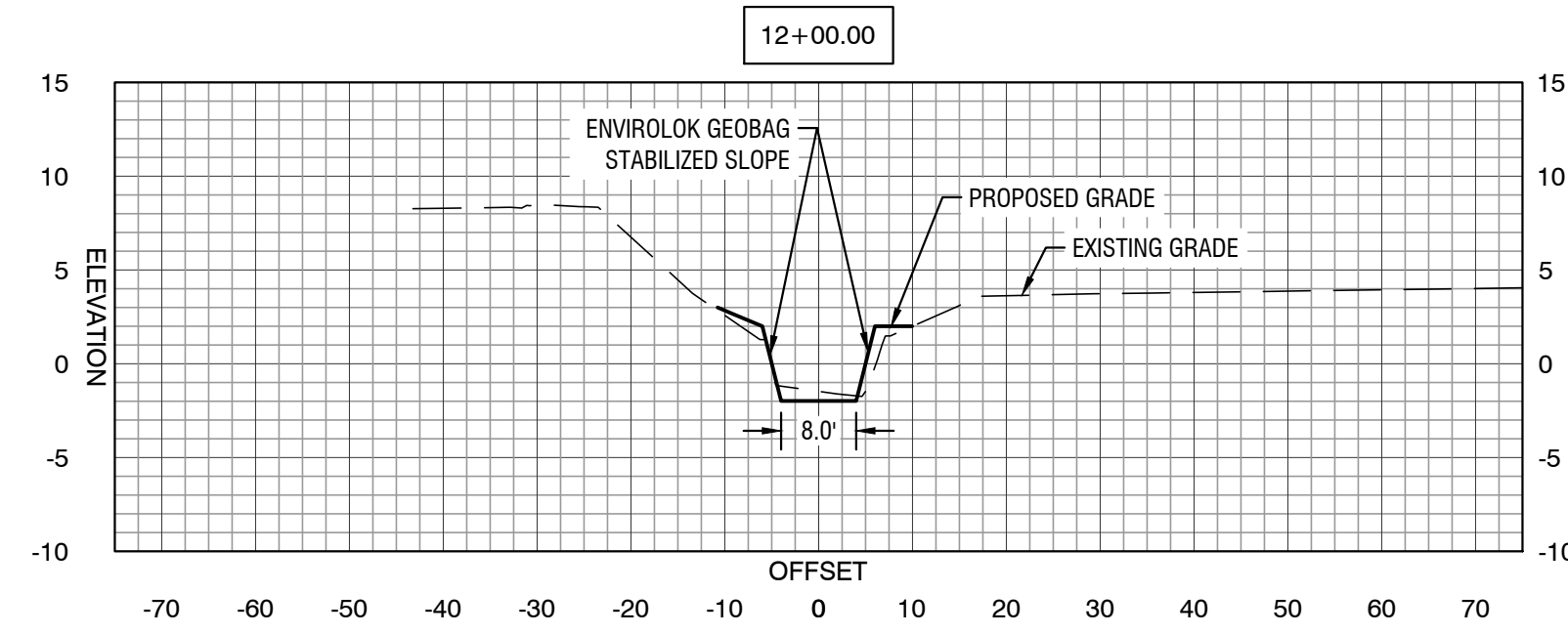
PROJECT NO.:	47408.001
ISSUED:	2/29/2024
DRAWN BY:	NTD
CHECKED BY:	MAC
SCALE:	1" = 20'

CONCEPT 1 GRADING PLAN

C-204

2/29/2024 12:28:41 PM C:\p\smith\47408\1\ProjectResources\CADD\External\Concept 1 - Truncated Channel.dwg C:\p\smith

2/29/2024 12:29:49 PM Cody Smith A:\47408\47408\01\ProjectResources\CADD\Exhibit\Concept 1_Truncated Channel.dwg



SCALE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 10'

PROJECT NAME

WILLOW BRANCH CANAL
 STABILIZATION

PREPARED FOR
 CITY OF JACKSONVILLE
 DEPARTMENT OF PUBLIC WORKS



9985 GATE PARKWAY N. SUITE 200
 JACKSONVILLE, FLORIDA USA 32246
 PHONE 904.730.8360 WWW.HALFF.COM
 FL CA 33380 FL LC 26000645

REVISIONS	NO.	DATE	DESCRIPTION

SEAL

MICHAEL A. COFFEY, PH.D., PE.
 LEED AP LICENSE # 57412

PRELIMINARY - NOT
 FOR CONSTRUCTION

PROJECT NO.: 47408.001
 ISSUED: 2/29/2024
 DRAWN BY: NTD
 CHECKED BY: MAC
 SCALE: 1" = 20'

CONCEPT 1
 SECTIONS

C-205