



SECTION 4, 5, 6, TOWNSHIP 34 SOUTH, RANGE 22 EAST
27°33'09.7"N 82°07'25.3"W

Kimley»»Horn

Kimley»»Horn
© 2017 KIMLEY-HORN AND ASSOCIATES, INC.
116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM
CA. 00000696

This item has been digitally signed and sealed by Robert B. Conerly, P.E. on July 11, 2018 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	DATE
142146055	JUNE 2017
SCALE	AS SHOWN
DESIGNED BY	RBC
DRAWN BY	JMW
CHECKED BY	RBC

COVER SHEET

**MANATEE COUNTY LAKE
MANATEE WATER SUPPLY AND
WATER QUALITY IMPROVEMENT
- PHASE 2
PREPARED FOR
MANATEE BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY, FLORIDA**

SHEET NUMBER
C100

Plotted By: Wynn, Jared
 Sheet: SCDUETTE PRESERVE WATERSHED IMPROVEMENTS - PHASE 2, Layout: C100 COVER SHEET July 24, 2017 05:11:36pm
 L:\A\N\142146055 - Duette Preserve Hydrologic Study\Phase 2\CAD\CONSTR\C100 COVER SHEET.dwg
 K:\A\N\142146055 - Duette Preserve Hydrologic Study\Phase 2\CAD\CONSTR\C100 COVER SHEET.dwg
 This drawing is the property of Krimley-Horn and Associates, Inc. and shall be without liability to Krimley-Horn and Associates, Inc. if it is reproduced or used in any form without written authorization and adaptation by Krimley-Horn and Associates, Inc. All rights reserved.

PROJECT CONTACTS

OWNER/APPLICANT:
MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY PARKS AND NATURAL RESOURCES DEPARTMENT
PO BOX 100
BRADENTON, FLORIDA 34205
CONTACT: CHARLIE HUNSICKER
PHONE: (941) 742-5923

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
116 SOUTH KETUCKY AVE
LAKELAND, FLORIDA 33801
PHONE: 863-701-8702
CONTACT: ROBERT "BO" CONERLY, P.E.

ENVIRONMENTAL SCIENTIST:
MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS
1112 MANATEE AVENUE WEST, SUITE 203
BRADENTON, FL 34205
PHONE: (941)-742-5980
CONTACT: ALISSA POWERS P.W.S.

SURVEYOR:
HYATT SURVEY SERVICES, INC
11007 8TH AVENUE EAST
BRADENTON, FL 34212
PHONE: 941-748-4693
CONTACT: RUSSELL P. HYATT, PSM

LIDAR SOURCE:
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
PHONE: 352-796-7211

FLORIDA POWER AND LIGHT:
PHONE: 941-776-5200



PREPARED BY

Kimley»»Horn

© 2017 KIMLEY-HORN AND ASSOCIATES, INC.
116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM
CA00000696

GENERAL SITE CONSTRUCTION NOTES

1. THE PURPOSE OF THIS PROJECT IS ECOLOGICAL RESTORATION. THE CONTRACTORS WORKING ON THIS SITE SHALL TAKE GREAT CARE IN AVOIDING UNNECESSARY IMPACTS TO WETLAND, VEGETATION, AND ANIMALS.
2. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING TO CONDUCT INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT MAY BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
3. THE CONTRACTOR SHALL OBTAIN AND/OR VERIFY EXISTENCE OF ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS NOT FURNISHED BY THE OWNER.
4. PRIOR TO THE START OF CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770)", MANATEE COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, VERIZON AND ANY OTHER UTILITIES (ELECTRIC, PHONE, GAS, CABLE, ETC.) IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
5. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH NRCS STANDARDS AND SPECIFICATIONS.
6. IF HUMAN REMAINS OR ARCHEOLOGICAL ARTIFACTS ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR MUST STOP WORK IMMEDIATELY AND PROMPTLY NOTIFY THE PROJECT MANAGER.
7. THE CONTRACTOR SHALL NOT ENTER UPON, OR ALTER THE WETLAND PRESERVE AREAS THAT MAY BE ONSITE OR DIRECTLY ADJACENT TO THE PROJECT AREA EXCEPT AS NOTED IN THESE DRAWINGS. ALL WORK PERFORMED IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM VIOLATION OF PERMIT CONDITIONS.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO CALCULATE AND VERIFY ALL CUT AND FILL QUANTITIES OF EARTHWORK FOR THE PROJECT. A BULKING FACTOR SHOULD BE TAKEN INTO ACCOUNT WHEN FIGURING VOLUMES OF FILL PLACEMENT.
9. IMMEDIATELY BEFORE REQUESTING FINAL INSPECTIONS, THE CONTRACTOR SHALL CHECK ALL LINES AND DRESS TO THE PROPER GRADES/CONTOURS. ALL AREAS ARE TO BE STABILIZED AND MAINTAINED UNTIL SPECIFIED. THE CONTRACTOR SHALL MAKE ALLOWANCES WHEN ROUGH GRADING FOR THE FINISHED GRADES IN THESE AREAS.
10. POST GRADING SOIL CONDITIONS SHALL BE APPROPRIATE FOR PLANTING WITH LIMITED COMPACTION AS DETERMINED BY THE PROJECT ECOLOGIST.
11. ANY DISTURBED AREA WILL BE SEEDED/MULCHED, HYDROSEEDED, OR SODDED OR PLANTED WITH MATERIALS AS SPECIFIED IN THE PLANS.
12. ALL PLANT MATERIAL TO BE INSTALLED SHALL BE HEALTHY, IN GOOD CONDITION, FREE FROM DISEASE AND APPROVED BY A QUALIFIED ECOLOGIST PRIOR TO INSTALLATION.
13. DURING CONSTRUCTION OF SPOIL REMOVAL SITES, WORK WILL BE DONE FROM UPLANDS TO THE EXTENT POSSIBLE. IN AREAS WHERE EQUIPMENT IS USED TO PERFORM SPOIL REMOVAL IS REQUIRED TO CROSS WETLANDS/WATERS OF THE UNITED STATES THE PROJECT ECOLOGIST WILL MONITOR THE OPERATION AND ENSURE MINIMAL DAMAGE TO SOIL AND VEGETATION OCCURS. NO EXCAVATED MATERIAL WILL BE PLACED IN WETLANDS AND ANY ALTERATIONS TO GRADE FROM SPOIL REMOVAL WILL BE REPAIRED.
14. NO DEWATERING IS PROPOSED. IF DEWATERING IS TO OCCUR, PRIOR APPROVAL FROM SWFWMD WILL BE OBTAINED BY CONTRACTOR.

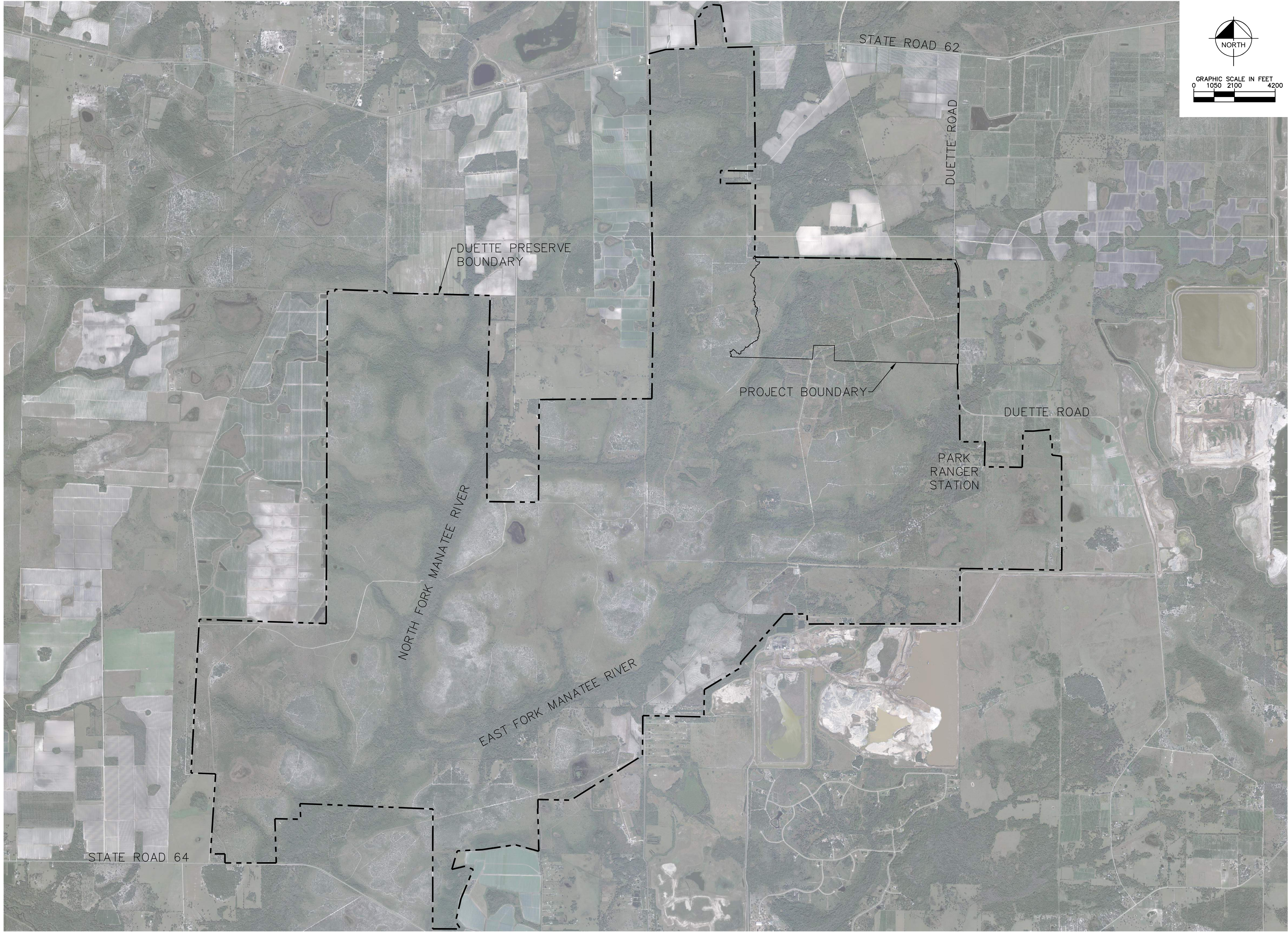
CALL 2 WORKING DAYS
BEFORE YOU DIG

IT'S THE LAW!
DIAL 811

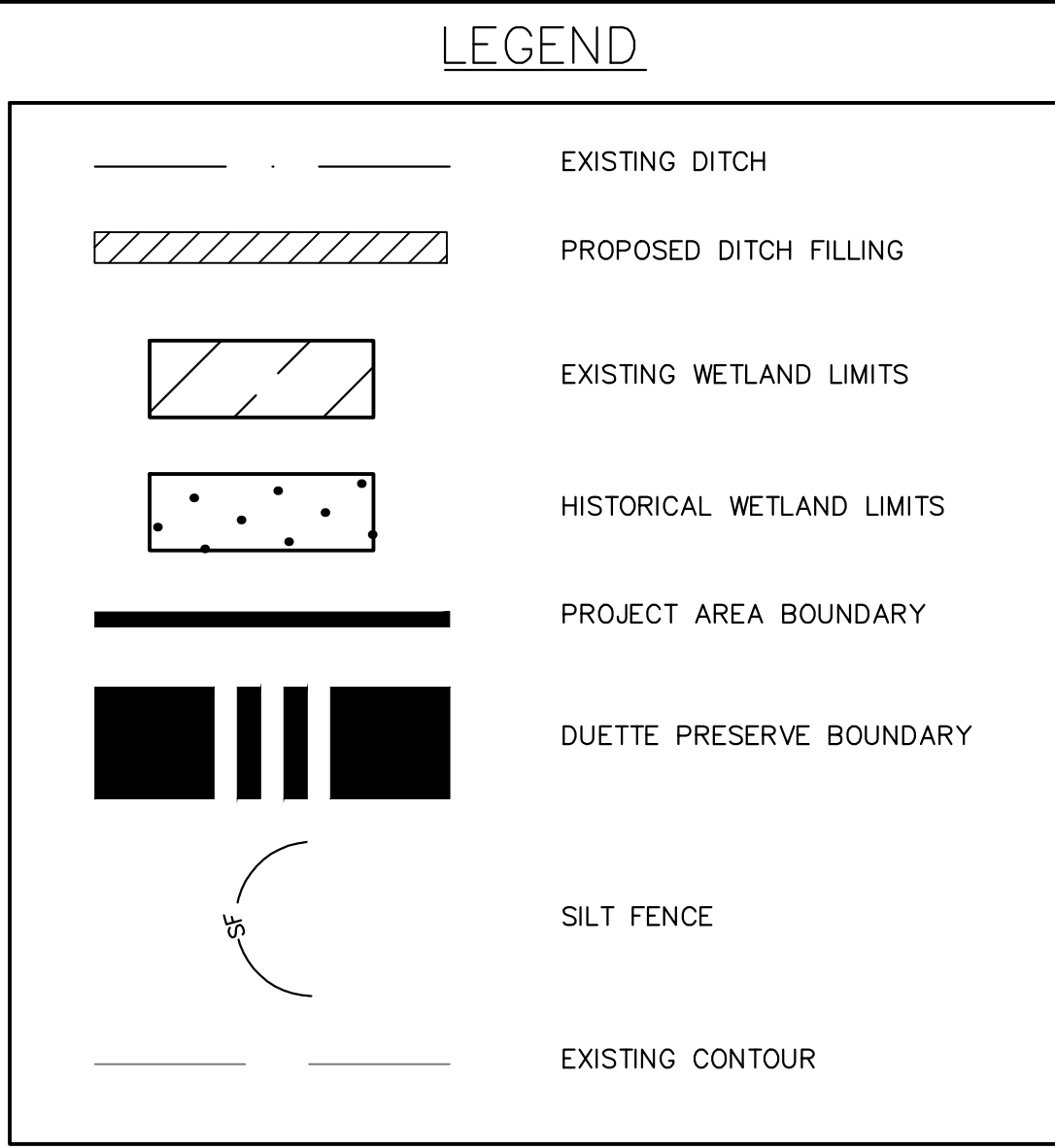
Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Wynn, Jared Sheet Set: DUETTE PRESERVE WATERSHED IMPROVEMENTS - PHASE 2 Layout: C300 OVERALL SITE AERIAL July 24, 2017 05:06:44pm K:\Lak_Civil\142146055 - Duette Preserve Hydrologic Study\Phase 2\CAD\CONSTR\C300 OVERALL SITE PLAN.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



MANATEE COUNTY LAKE MANATEE WATER SUPPLY AND WATER QUALITY IMPROVEMENT - PHASE 2 <small>PREPARED FOR MANATEE BOARD OF COUNTY COMMISSIONERS MANATEE COUNTY FLORIDA</small>	OVERALL SITE AERIAL	KHA PROJECT 142146055 DATE JUNE 2017 SCALE AS SHOWN DESIGNED BY RBC DRAWN BY JMW CHECKED BY RBC	This item has been digitally signed and sealed by Robert B. Conery, P.E. on July 11, 2018 using a Digital Signature.		Kimley»Horn <small>© 2017 KIMLEY-HORN AND ASSOCIATES, INC. 116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801 PHONE: 863-701-8702 WWW.KIMLEY-HORN.COM CA 00000696</small>	No.	REVISIONS	DATE	BY
			Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.						



A graphic scale in feet showing 0, 25, 50, and 100 feet. Below the scale is a north arrow pointing towards the top right, with the word "NORTH" written inside the arrow's shaft.

† 2017 KIMLEY-HORN AND ASSOCIATES, INC.
116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM
CA 00000696

This item has been digitally signed and sealed by Robert B. Conerly, P.E. on July 11, 2018 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT	SCALE	AS SHOWN
142146055	DESIGNED BY	RBC
	DRAWN BY	JMW
	CHECKED BY	RBC

GRADING AND DRAINAGE PLAN

- PHASE 2
PREPARED FOR
MANATEE BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY
FLORIDA

SHEET NUMBER
C401

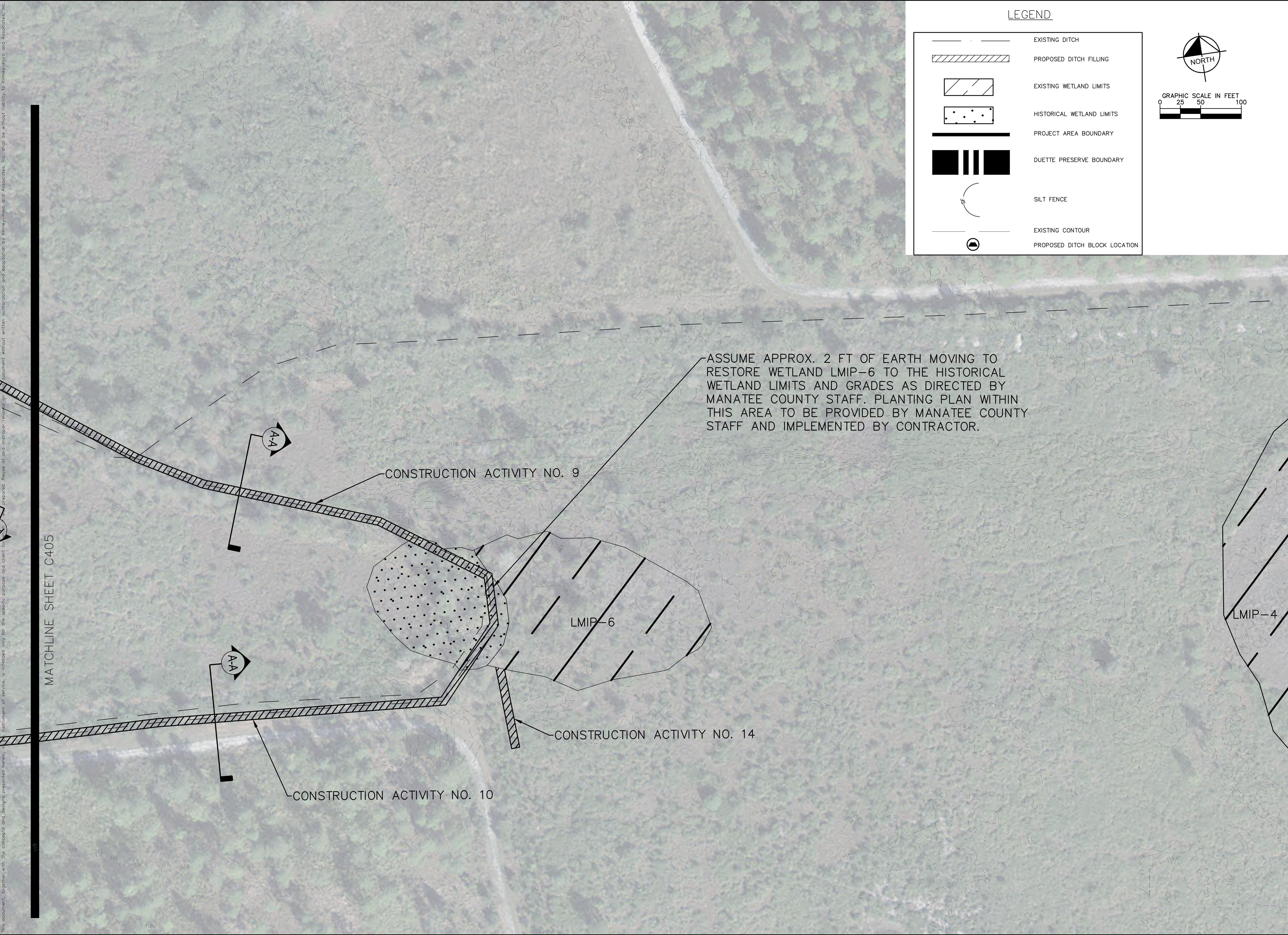
[illegible]

1. WETLANDS DELINEATED VIA AERIAL PHOTO INTERPRETATION WITH LIMITED GROUND TRUTHING BY MANATEE COUNTY (ALISSA POWERS, PWS #1581).
2. CONTOURS ARE BASED ON SWFWMD LIDAR NAVD 1988.
4. REFER TO SHEET C500 FOR CONSTRUCTION AND BMP DETAILS.
5. CONTRACTOR SHALL INSTALL ALL BMP'S PRIOR TO CONSTRUCTION.
6. ANY NGVD-'29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY: GEODETC INFORMATION CENTER ATTN: MARK MAINTENANCE SECTION N/CG-162 6001 EXECUTIVE BOULEVARD ROCKVILLE, MARYLAND 20852 TELEPHONE NO. 301/443-8319.
7. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
8. THE CONTRACTOR SHALL NOT EXCAVATE, REMOVE, OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE, OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES, OR GRADING SECTIONS ESTABLISHED FOR THIS PROJECT, EXCEPT WHERE SUCH EXCAVATION OR REMOVAL IS PROVIDED FOR IN THE CONTRACT, PLANS, OR SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL CALL (811) SUNSHINE STATE ONE CALL OF FLORIDA. FOR FIELD LOCATIONS 48 HOURS BEFORE DIGGING NEAR UNDERGROUND UTILITIES.
10. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY W/ FLA. STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES
11. IF DETERMINED NECESSARY, DEWATERING DURING EXCAVATING/BACKFILLING OPERATIONS MAY BE ACCOMPLISHED BY DITCHING AND THE USE OF SUMP PUMPS AND/OR OTHER METHODS (WELL POINTS), AS NECESSARY. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS FOR DEWATERING ACTIVITIES THAT MAY BE REQUIRED.
12. ALL PIPE JOINTS SHALL BE WATER TIGHT WITH FILTER FABRIC JACKET AT PIPE JOINTS.
13. ALL ACTIVITIES ASSOCIATED WITH EXCAVATION, PLACEMENT, BACKFILL, COMPACTION AND TESTING FOR STRUCTURES SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT OF LOCAL OR NRCS SPECIFICATIONS.
14. DISTURBED AREA WILL BE SEEDED WITH RYEGRASS AND SWALES WILL BE SODDED WITH SEASHORE PASPALUM.
15. AREAS CONSIST OF DITCHES AND ASSOCIATED SPOIL LOCATED WITHIN, UPSTREAM, DOWNSTREAM, OR ADJACENT TO EXISTING WETLAND AREAS. WORK IN THESE AREAS CONSISTS OF FILLING THE EXISTING DITCHES USING THE ADJACENT SPOIL FOR FILL AS AVAILABLE TO MATCH THE GRADE OF THE ADJACENT GROUND AREAS OF SOIL. DISTURBANCE WILL BE REPLANTED AS IDENTIFIED IN THE PLANS.

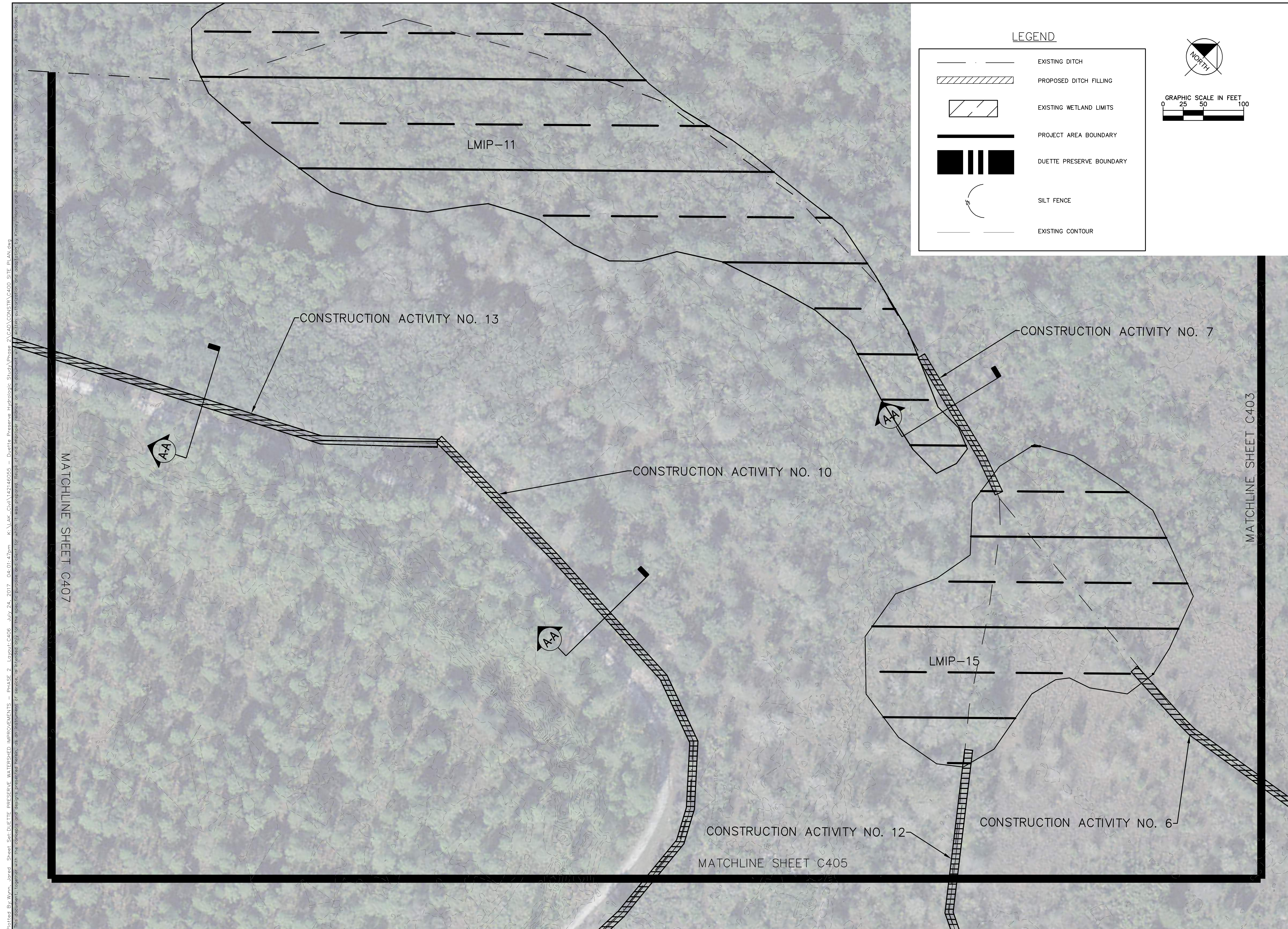


Plotted By: Norris, Logan Sheet Set: DUETTE PRESERVE WATERSHED IMPROVEMENTS - PHASE 2 Layout: C404 July 11, 2018 04:14:38pm K:\LAK_Civil\142146055 - Duette Preserve Hydrologic Study\Phase 2\CAD\CONSTR\C400 SITE PLAN.dwg

This document, together with the concepts and designs presented herein, is prepared for the specific purpose and client to whom it is prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



MANATEE COUNTY LAKE		KHA PROJECT 142146055		KIMLEY»Horn		No.		REVISIONS		DATE		BY	
MANATEE WATER SUPPLY AND WATER QUALITY IMPROVEMENT		DATE JUNE 2017		© 2017 KIMLEY-HORN AND ASSOCIATES, INC. 116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801 PHONE: 863-701-8702 WWW.KIMLEY-HORN.COM CA 00000696									
- PHASE 2		SCALE AS SHOWN		This item has been digitally signed and sealed by Robert B. Connelly, P.E. on July 11, 2018 using a Digital Signature.									
PREPARED FOR MANATEE BOARD OF COUNTY COMMISSIONERS MANATEE COUNTY		DESIGNED BY RBC		Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.									
		DRAWN BY JMW											
		CHECKED BY RBC											
SHEET NUMBER C404													



SHEET NUMBER C406	MANATEE COUNTY LAKE MANATEE WATER SUPPLY AND WATER QUALITY IMPROVEMENT - PHASE 2 PREPARED FOR MANATEE BOARD OF COUNTY COMMISSIONERS MANATEE COUNTY, FLORIDA	GRADING AND DRAINAGE PLAN	KHA PROJECT 142146055 DATE JUNE 2017 SCALE AS SHOWN DESIGNED BY RBC DRAWN BY JMW CHECKED BY RBC	This item has been digitally signed and sealed by Robert B. Conerly, P.E. on July 11, 2018 using a Digital Signature. Printed copies of this document are not considered single and sealed and the signature must be verified on any electronic copies.	Kimley»Horn © 2017 KIMLEY-HORN AND ASSOCIATES, INC. 116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801 PHONE: 863-701-8702 WWW.KIMLEY-HORN.COM CA 0000696	No.	REVISIONS	DATE	BY
-----------------------------	--	--------------------------------------	--	--	--	-----	-----------	------	----

Plotted By: Wm. Jared, Sheet: Selduette Preserve Watershed Improvements - Phase 2, Layout: C407, July 24, 2017, 04:05:49pm, K:\LAK-GWA\142146055 - Duette Preserve Hydrologic Study\Phase 2\CAD\CONSTR\C400 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KHA PROJECT 142146055				DATE JUNE 2017				SCALE AS SHOWN				DESIGNED BY RBC				DRAWN BY JMW				CHECKED BY RBC				No.				REVISIONS				DATE				BY																											
MANATEE COUNTY LAKE MANATEE WATER SUPPLY AND WATER QUALITY IMPROVEMENT - PHASE 2 PREPARED FOR MANATEE BOARD OF COUNTY COMMISSIONERS MANATEE COUNTY, FLORIDA																SHEET NUMBER C407																This item has been digitally signed and sealed by Robert B. Conerly, P.E. on July 11, 2018 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.																Kimley»Horn © 2017 KIMLEY-HORN AND ASSOCIATES, INC. 116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801 PHONE: 863-701-8702 WWW.KIMLEY-HORN.COM CA 0000696															

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

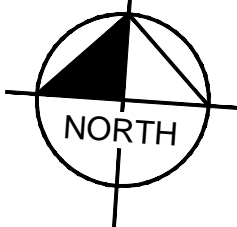
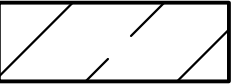
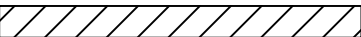


MATCHLINE SHEET C407

-CONSTRUCTION ACTIVITY NO. 13



LEGEND



GRAPHIC SCALE IN FEET

0 25 50 100

**MANATEE COUNTY LAKE
MANATEE WATER SUPPLY AND
WATER QUALITY IMPROVEMENT
- PHASE 2
PREPARED FOR
MANATEE BOARD OF COUNTY COMMISSIONERS
MANATEE COUNTY
FLORIDA**

GRADING AND DRAINAGE PLAN

KHA PROJECT 142146055	DATE JUNE 2017	SCALE AS SHOWN	DESIGNED BY RBC	DRAWN BY JMW	CHECKED BY RBC
--------------------------	-------------------	----------------	-----------------	--------------	----------------

This item has been digitally signed and sealed by Robert B. Conerly, P.E. on July 11, 2018 using a Digital Signature.

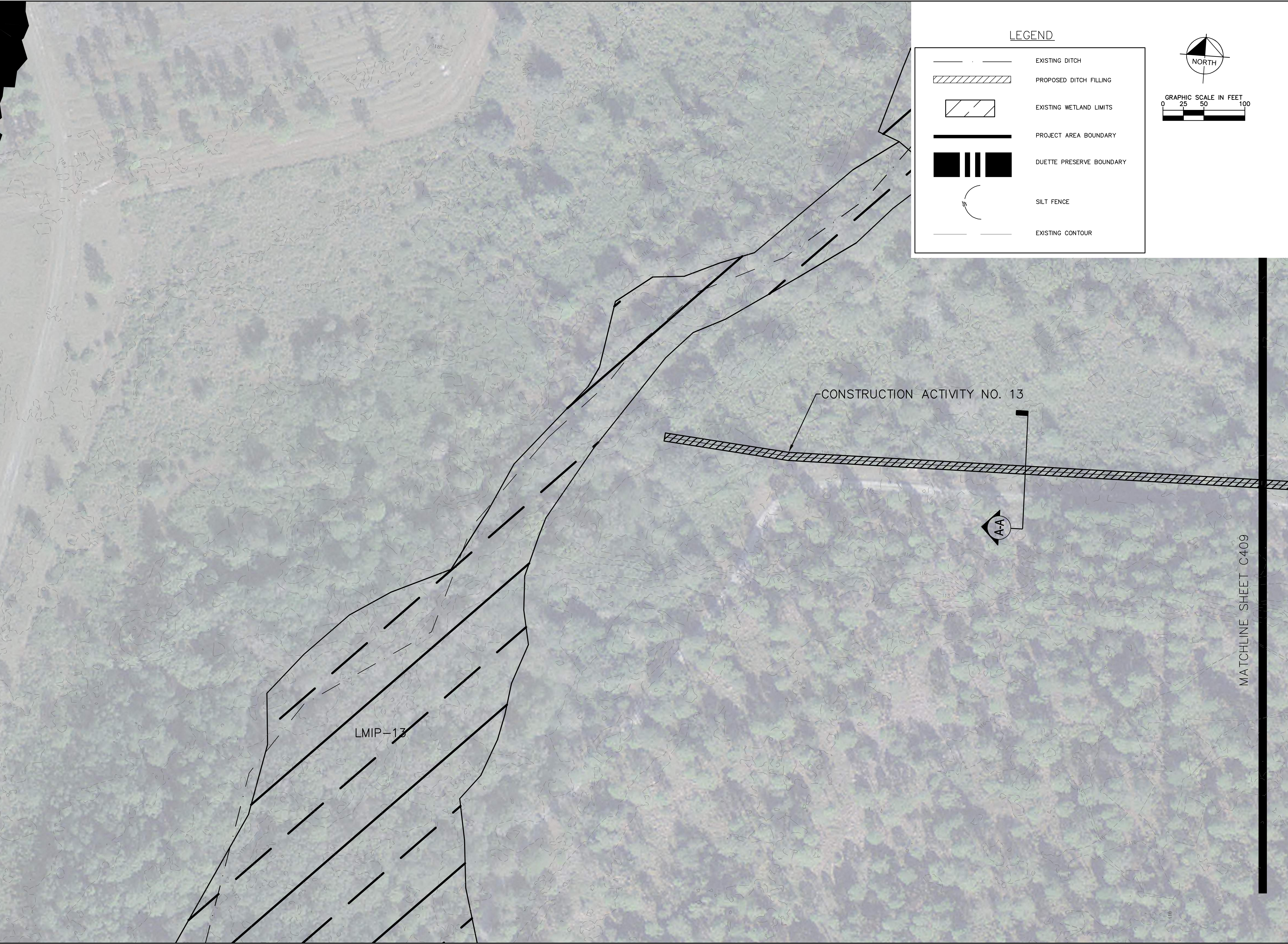
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Kimley»»Horn

© 2017 KIMLEY-HORN AND ASSOCIATES, INC.
116 SOUTH KENTUCKY AVENUE, LAKELAND, FL 33801
PHONE: 863-701-8702
WWW.KIMLEY-HORN.COM
CA 00000696

[illegible]

SHEET NUMBER
C408

[illegible]

