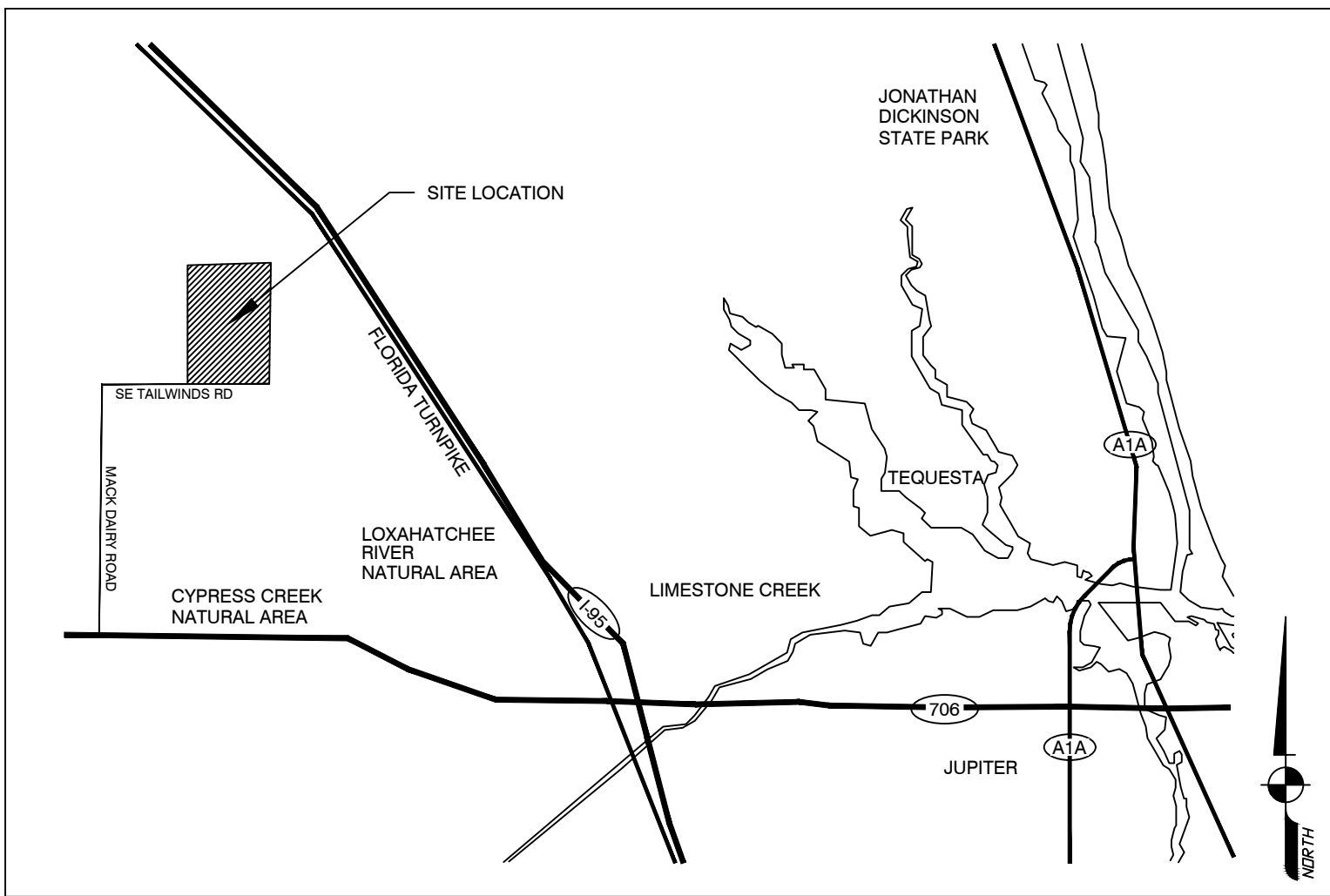


JONATHAN'S LANDING OLD TRAIL GOLF CLUB

JONATHAN'S LANDING JUPITER, FL 33477



LOCATION MAP
NOT TO SCALE

INDEX:

-	COVER SHEET
LM-0	OVERALL LAKE MODIFICATION PLAN
LM-1	LAKE MODIFICATION PLAN
LM-2	LAKE MODIFICATION PLAN
LM-3	LAKE MODIFICATION PLAN
LM-4	LAKE MODIFICATION PLAN
LM-5	LAKE MODIFICATION PLAN
LM-6	LAKE MODIFICATION PLAN
LM-7	LAKE MODIFICATION DETAILS
GP	OVERALL PROPOSED GRADING PLAN
ESC	EROSION & SEDIMENT CONTROL PLAN

Dennis R Shultz

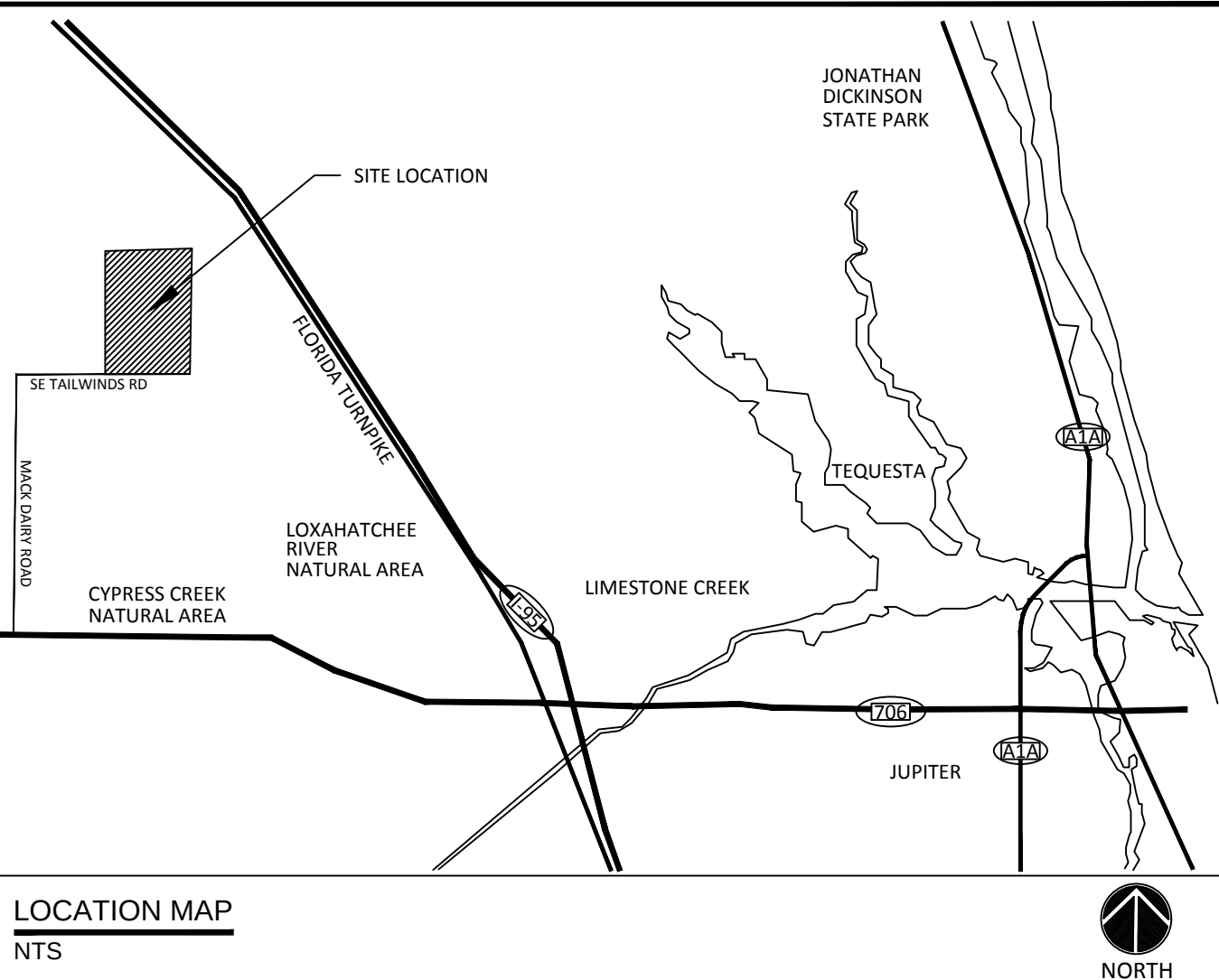
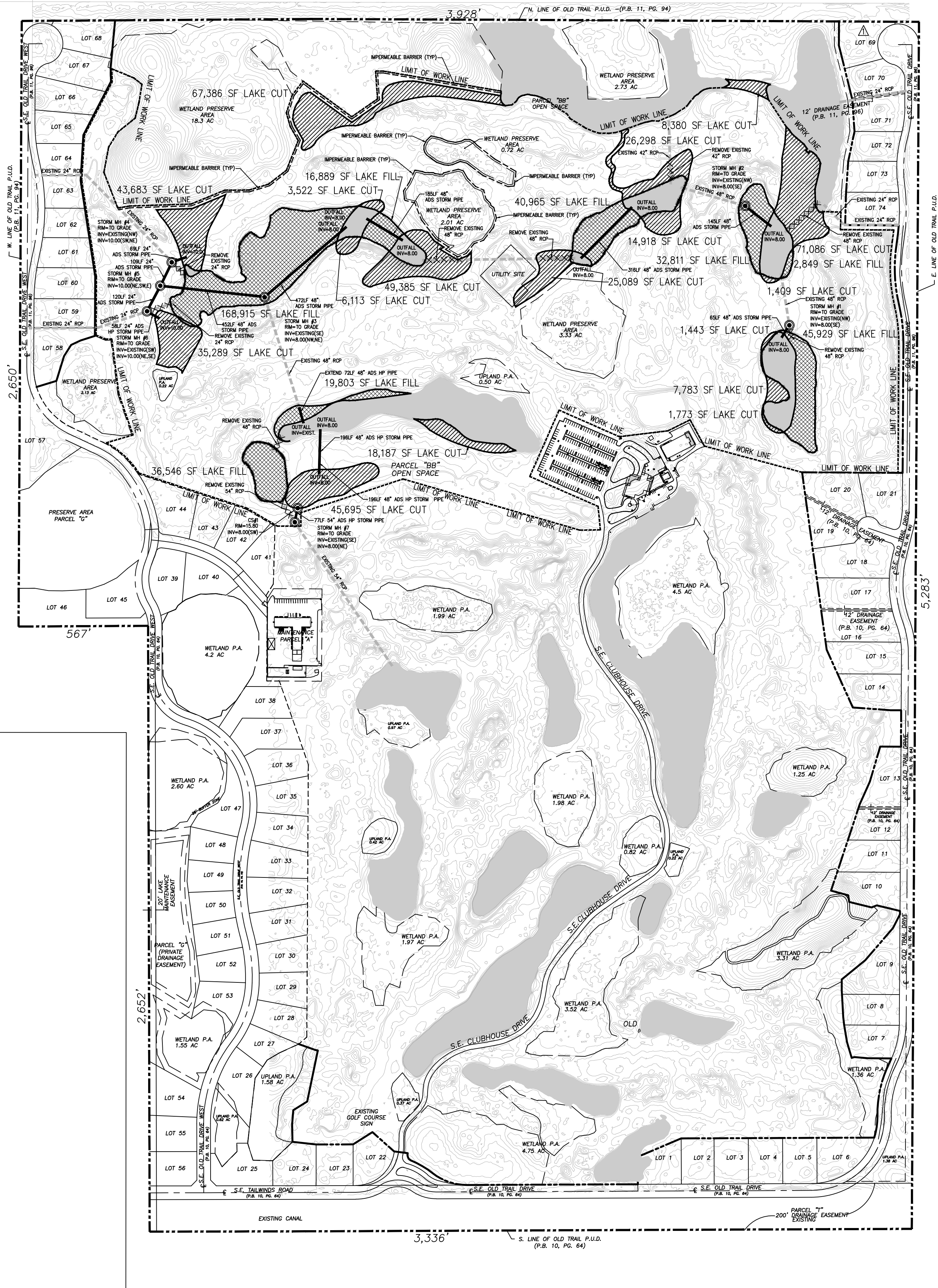


Digitally signed by Dennis R Shultz
DN: cn=US, o=Flynn Engineering Services P.A.,
ou=AG14276000016663A084E700002092, cm=Dennis
R Shultz
Date: 2020.12.16 14:11:46 -0500

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		Plot Date 12/16/20
		Drawn by NAH
		Proj. Engr. DRS
		Appr. by DRS



- LAKE AREA CALCULATION AND LEGEND:
- P.A. = PRESERVE AREAS
 - EXISTING LAKE AREA
 - LAKE EXPANSION= 9.81 ACRES (427,439 SF)
 - LAKE FILL= 8.37 ACRES (364,707 SF)
 - NET 1.44 ACRES (62,732 SF) LAKE INCREASE
 - EXIST. DRAINAGE PIPE
 - EXTENDED DRAINAGE PIPE
 - NEW DRAINAGE PIPE
 - IMPERMEABLE BARRIER
 - LIMIT OF WORK LINE

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EFP 6578

JONATHAN'S LANDING
GOLF CLUB

Sheet Title
OVERALL LAKE MODIFICATION PLAN

Job Title
JONATHAN'S LANDING OLD TRAIL GOLF CLUB

Phase:
PERMITTING

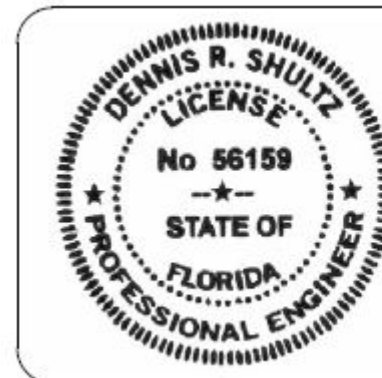
Revisions

07/15/20	PRELIMINARY PLANS
11/09/20	PRELIMINARY PLANS
11/18/20	SPWMD RESUBMITTAL
11/19/20	COUNTY RESUBMITTAL
12/09/20	SPWMD RESUBMITTAL
12/16/20	SPWMD RESUBMITTAL

Scale:
N.T.S.
Job No.
18-1416.02
Drawn by
NAH
Proj. Mgr.
DRS
Appr. by
DRS

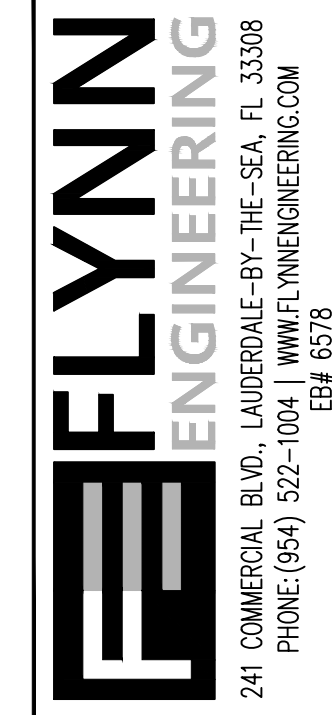
Date
07/10/20
Plot Date
12/16/20
Sheet No.
LM-0
1 of 10





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LAKE MODIFICATION PLAN

JONATHAN'S LANDING
OLD TRAIL GOLF CLUB
55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 33154



Revisions	
07/15/20	PRELIMINARY PLANS
11/09/20	PRELIMINARY PLANS
11/16/20	SPMD RESUBMITTAL
12/09/20	SPMD RESUBMITTAL
12/16/20	SPMD RESUBMITTAL

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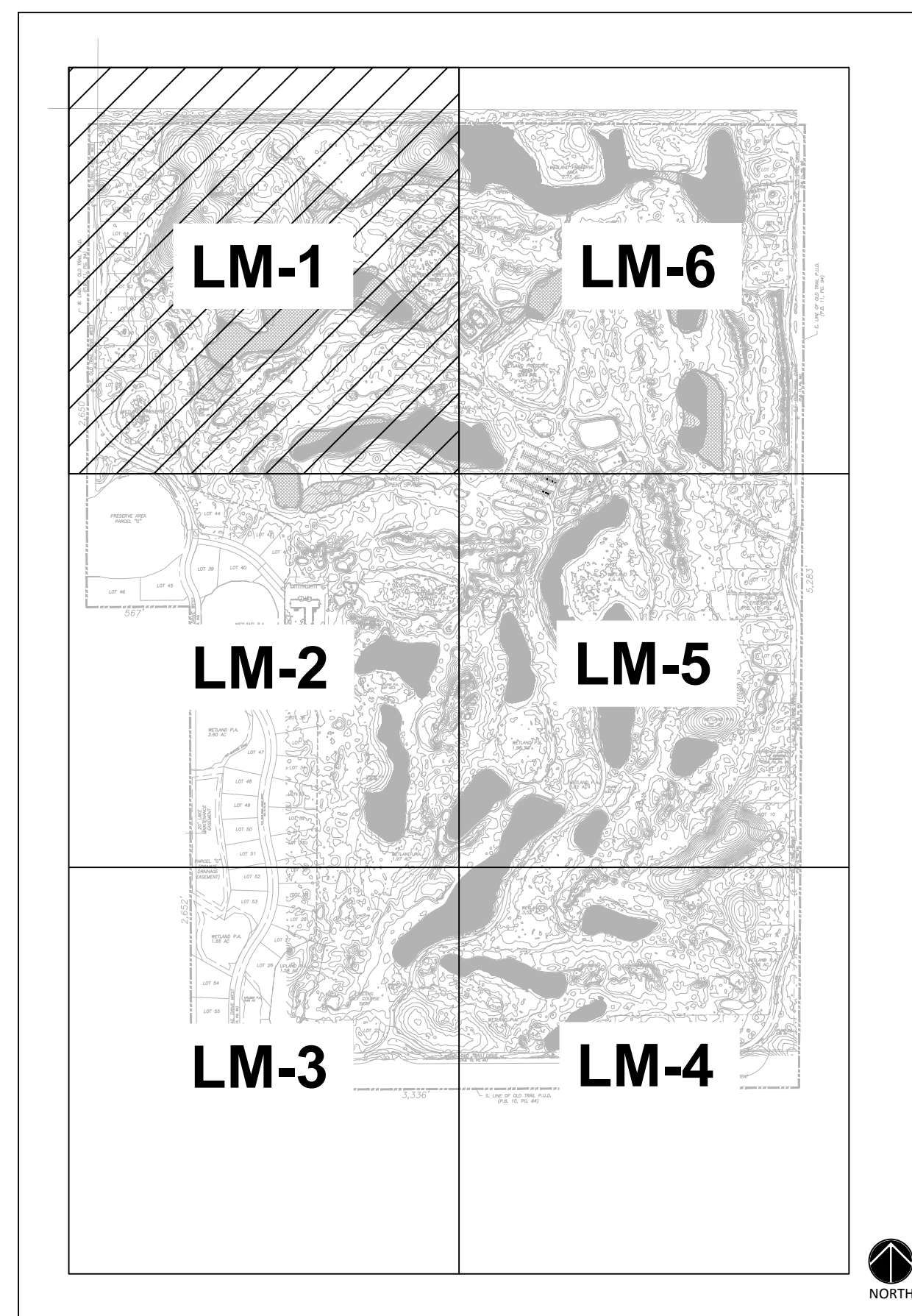
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Job No. 18-1416.02	Plot Date 12/16/20
Drawn by NAH	Sheet No. LM-1
Proj. Mgr. DRS	
Appr. by DRS	2 of 10

SEE SHEET LM-6

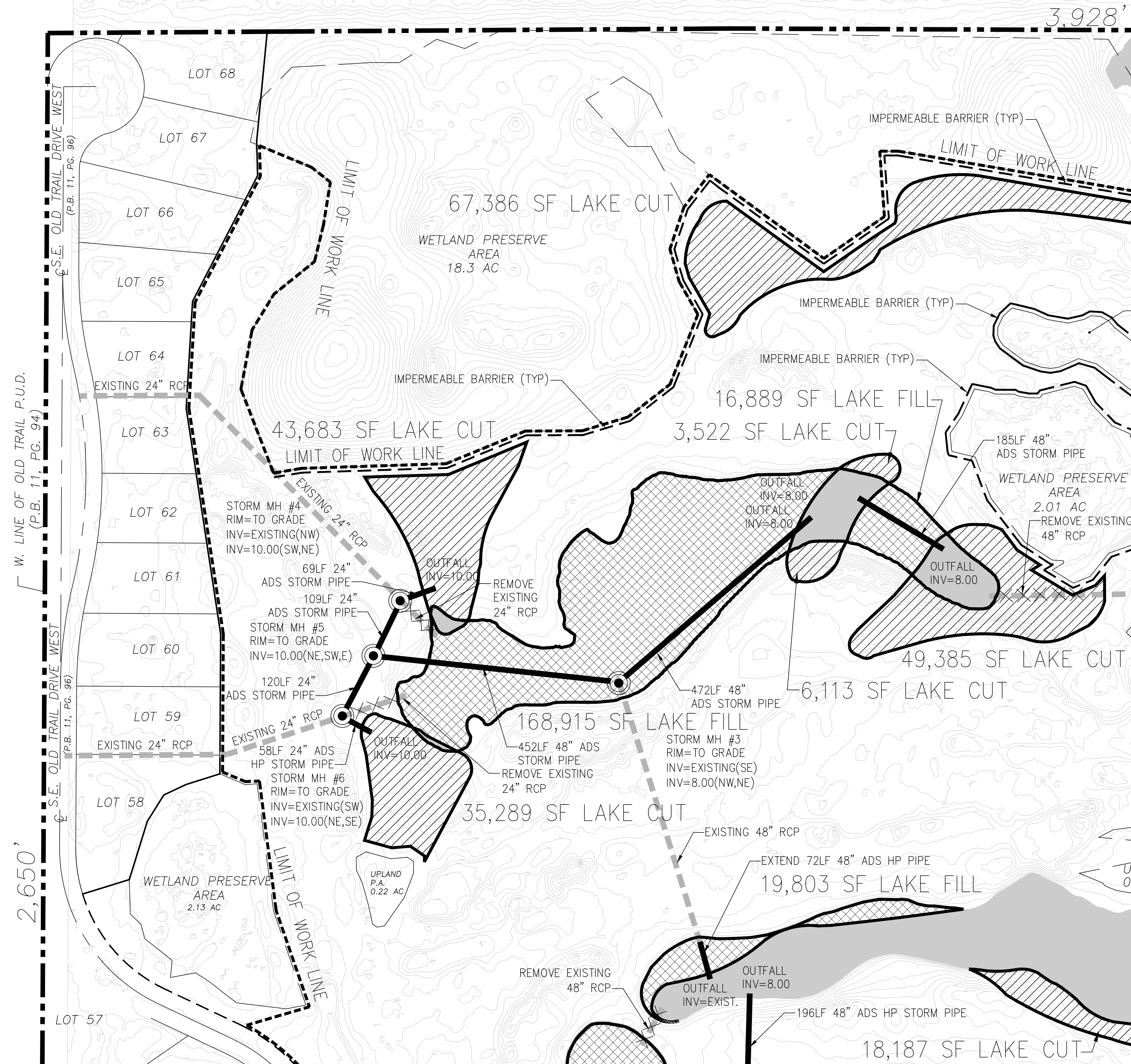
SEE SHEET LM-2

LAKE AREA CALCULATION AND LEGEND:

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- LIMIT OF WORK LINE



KEY MAP



Drawing name: F:\2018 Jobs\18-1416.02 Jonathan's Landing Old Trail Course\18-1416.02 SITE.dwg
Dec 16, 2020 - 1:23pm

DENNIS R. SHULTZ

LICENSE

No 66159

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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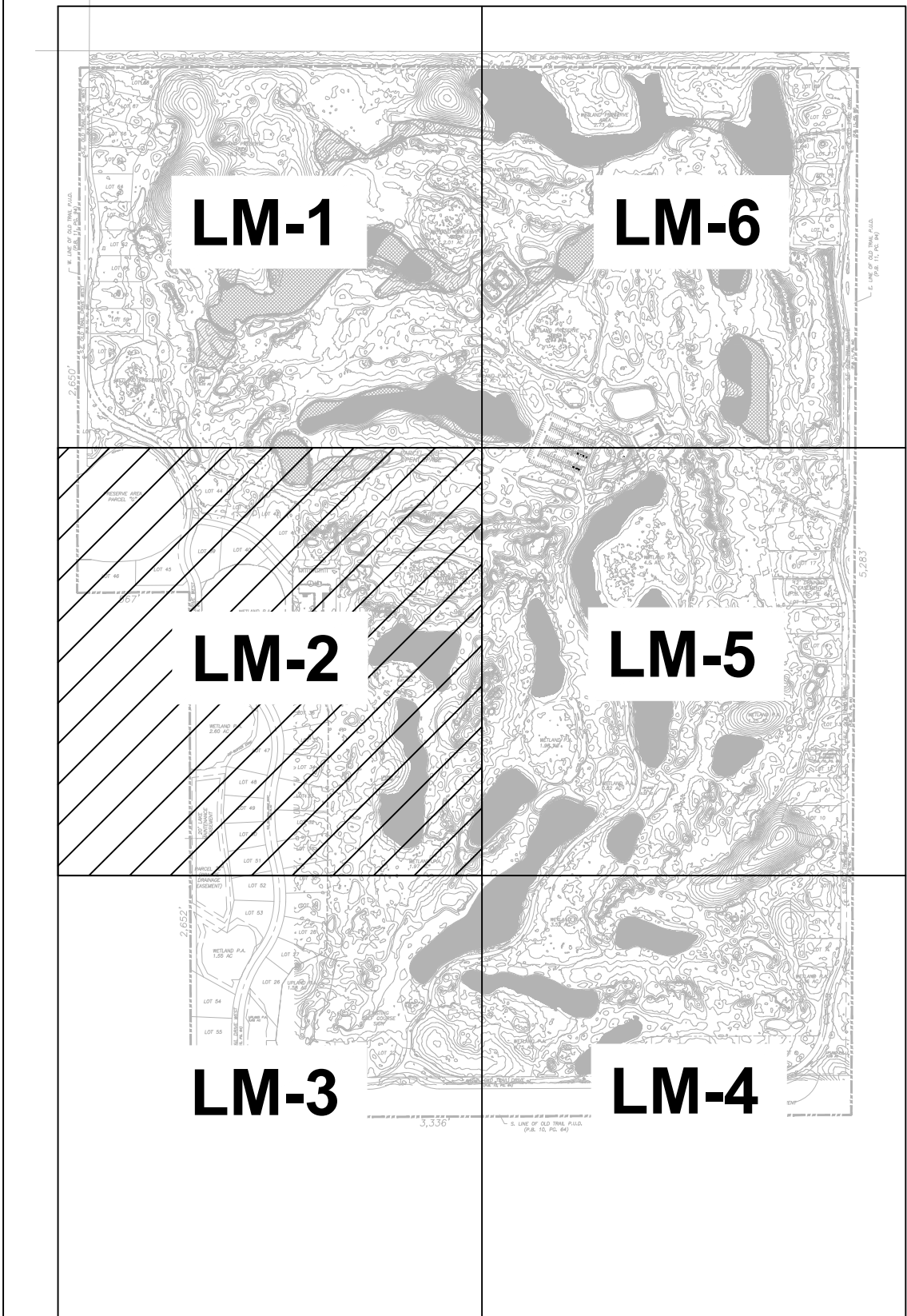
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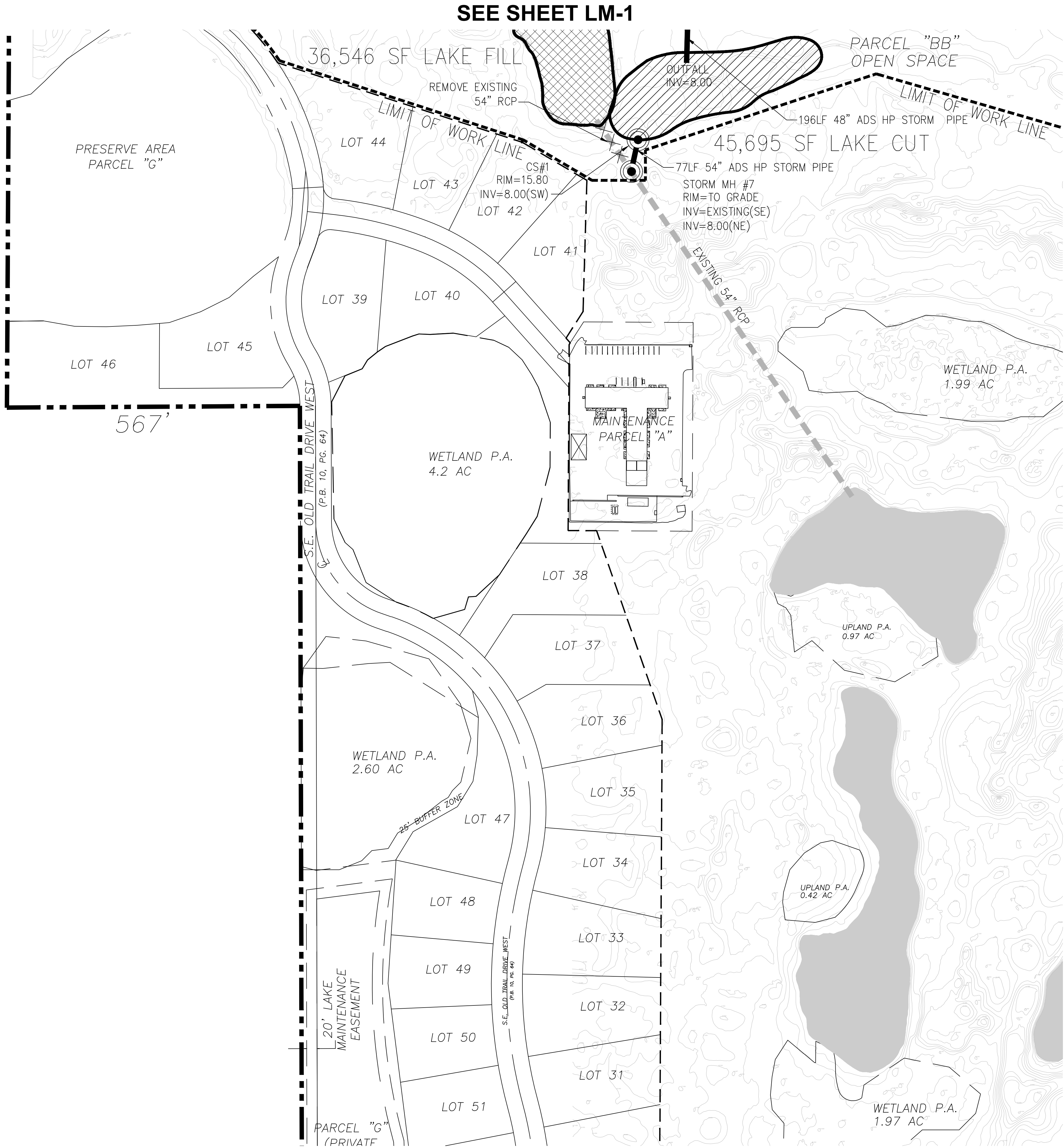
- P.A.

=

PRESERVE AREAS
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KEY MAP



SEE SHEET LM-1

SEE SHEET LM-3

SEE SHEET LM-5

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JONATHAN'S

LANDING

GOLF CLUB

LAKE MODIFICATION

PLAN

JONATHAN'S LANDING

OLD TRAIL GOLF CLUB

55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 33154

NORTH

Revisions	
07/15/20	PRELIMINARY PLANS
11/09/20	PRELIMINARY PLANS
11/16/20	SFMD RESUBMITTAL
12/09/20	SFMD RESUBMITTAL
12/16/20	SFMD RESUBMITTAL

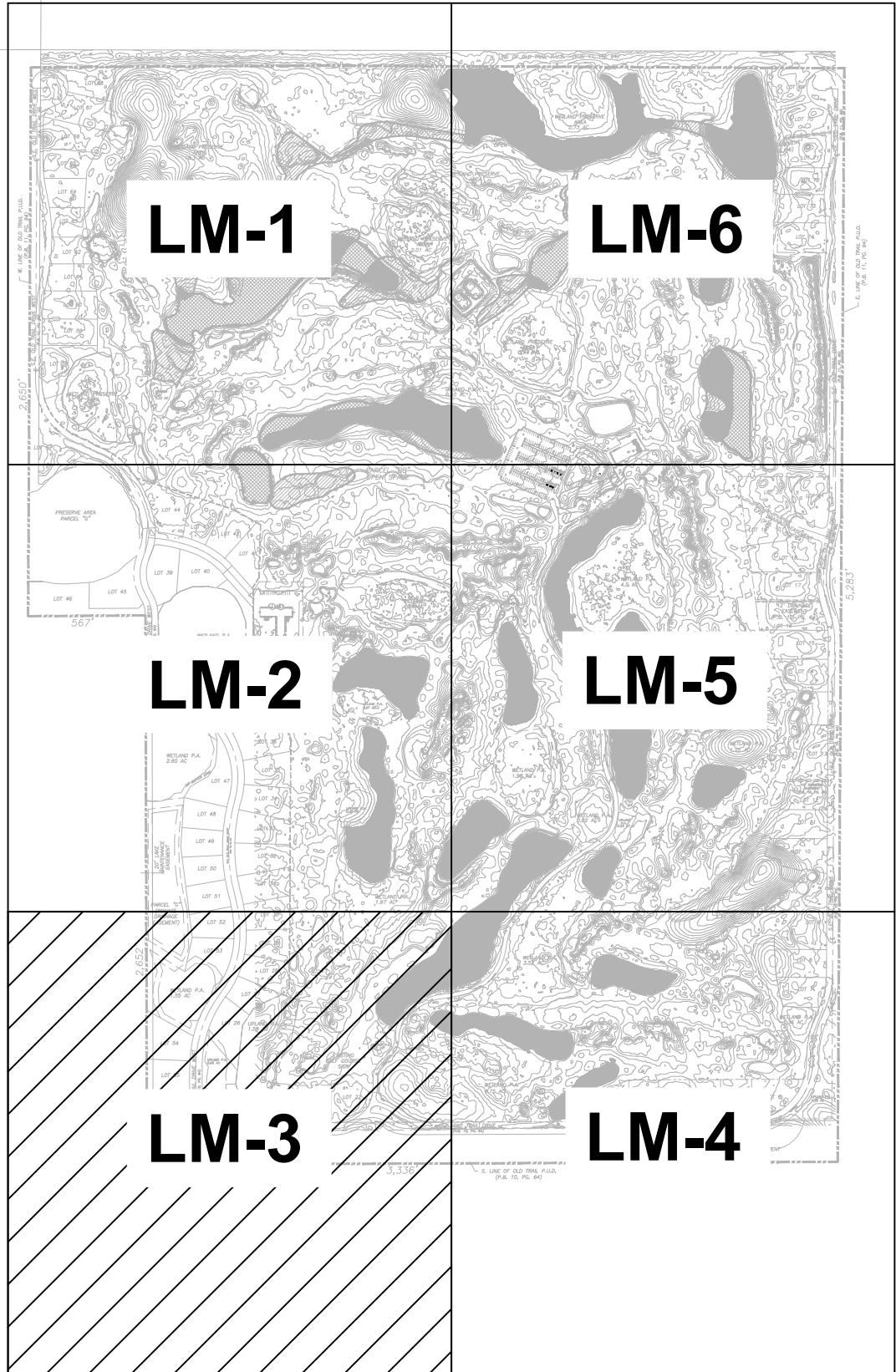
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Drawn by NAH	Sheet No.
Proj. Mgr. DRS	LM-2
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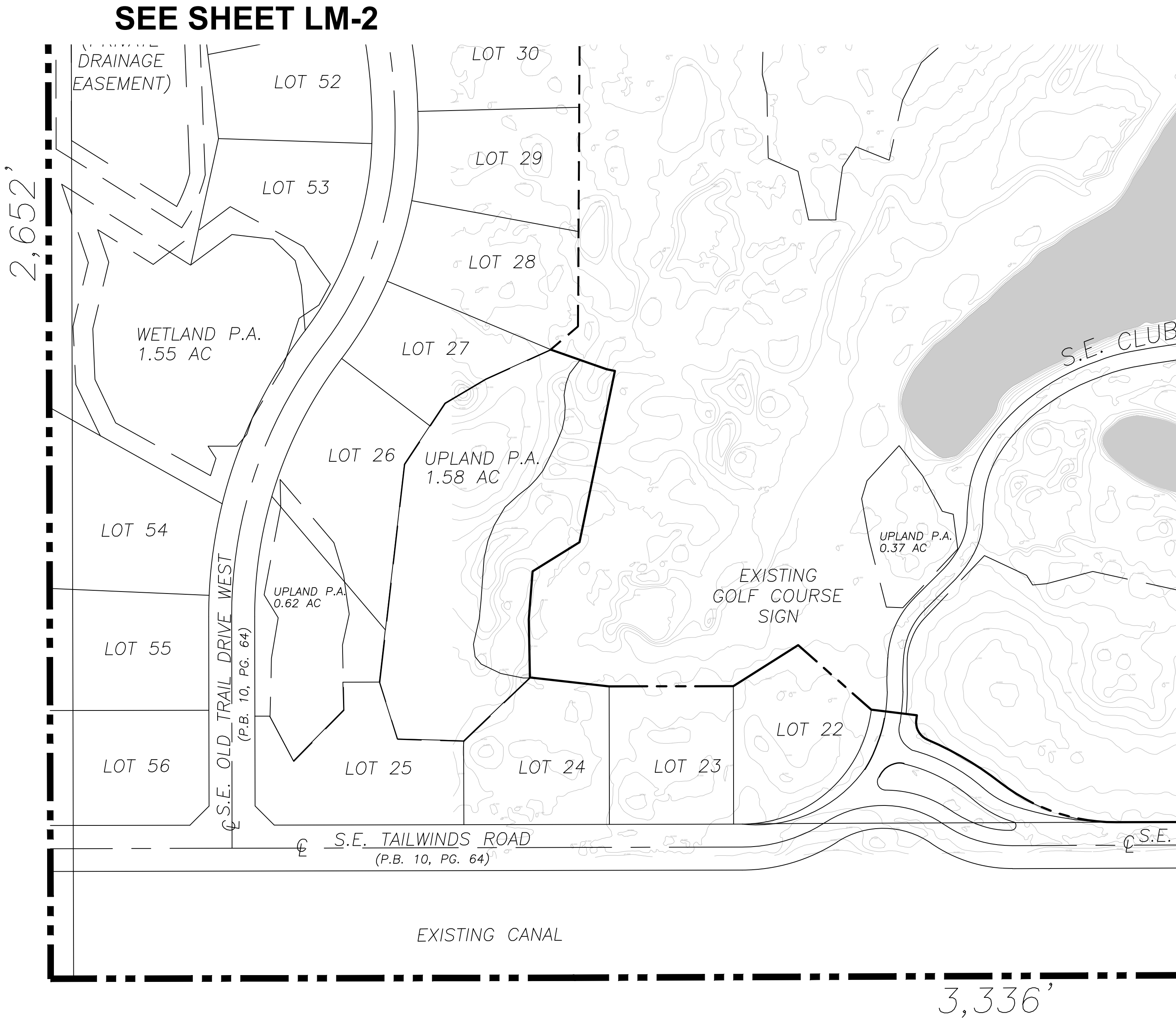
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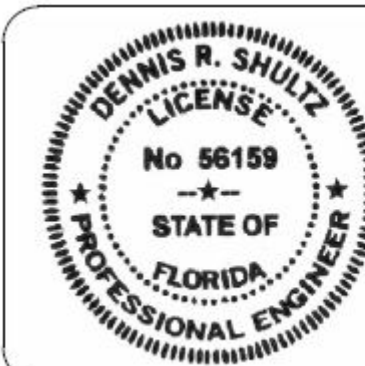
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KEY MAP

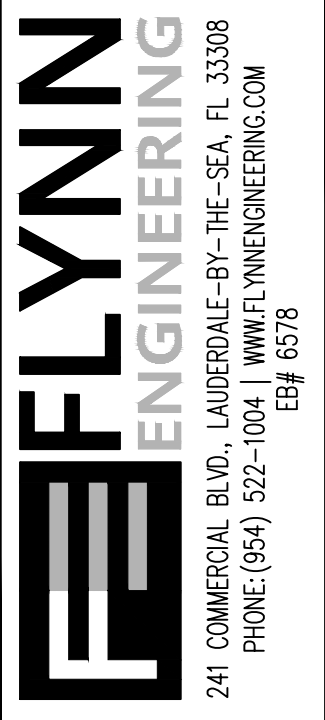


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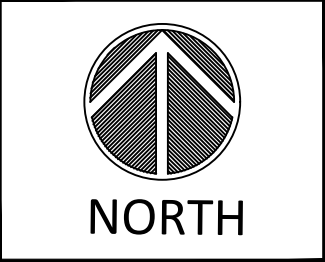
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JONATHAN'S LANDING
LAKE MODIFICATION
PLAN

JONATHAN'S LANDING
OLD TRAIL GOLF CLUB
55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 33154



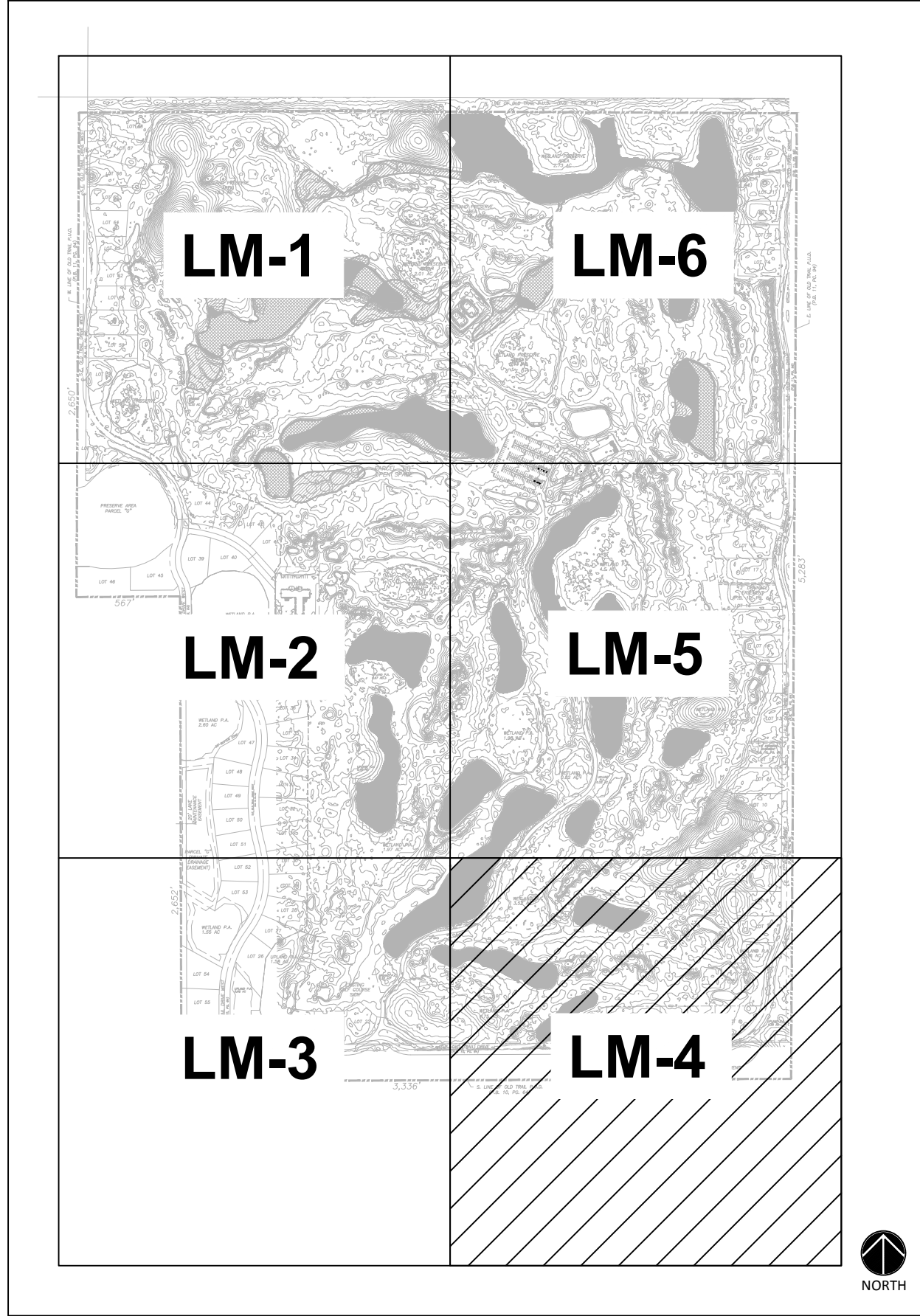
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11/16/20	SPMD RESUBMITTAL
12/16/20	SPMD RESUBMITTAL

Phase:
PERMITTING

SEAL

Scale: 1"=100'	Date 07/10/20
Job No. 18-1416.02	Plot Date 12/16/20
Drawn by NAH	Sheet No. LM-3
Proj. Mgr. DRS	
Appr. by DRS	4 of 10

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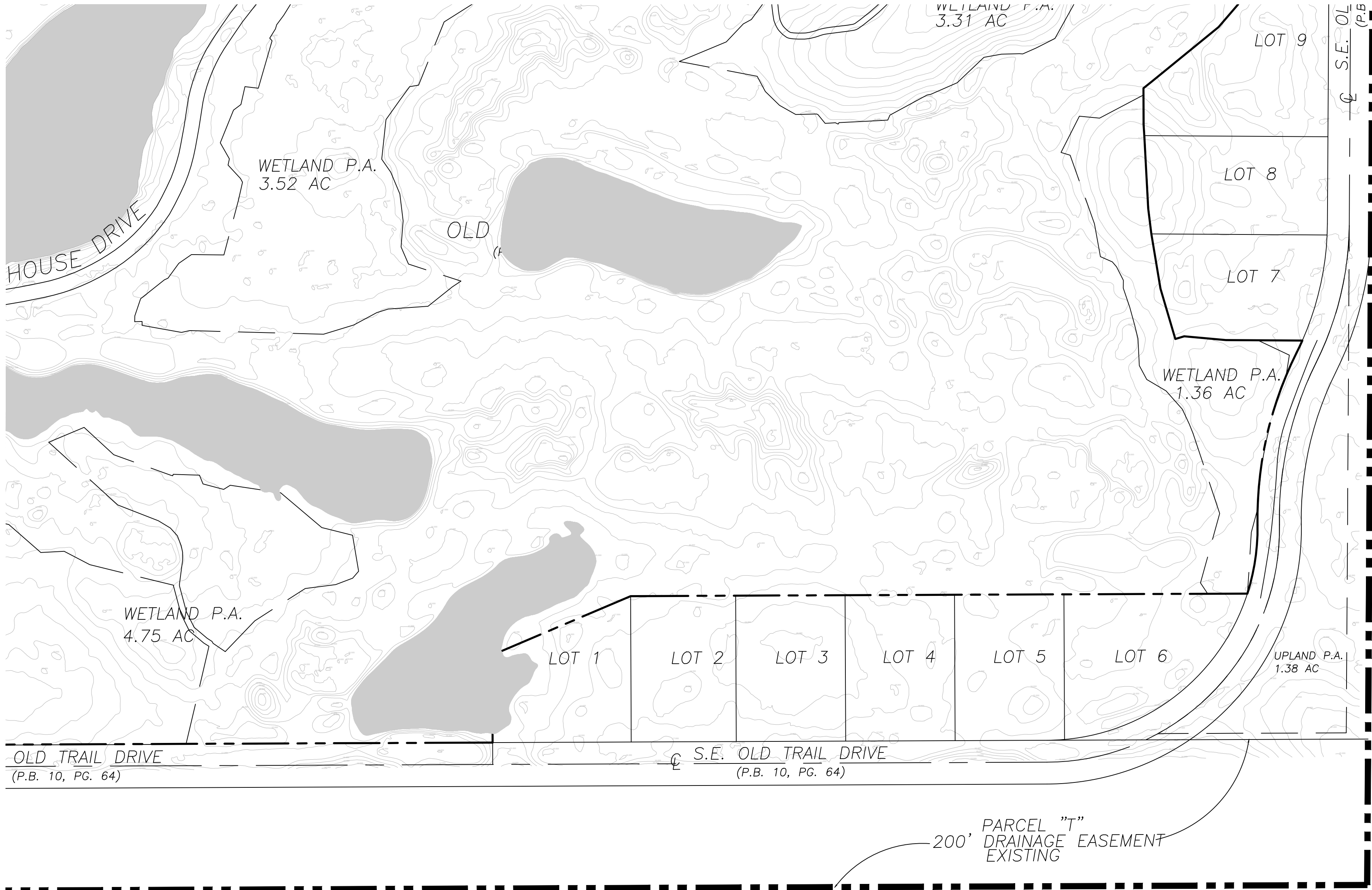
KEY MAP

LAKE AREA CALCULATION AND LEGEND:

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- LIMIT OF WORK LINE

SEE SHEET LM-3

SEE SHEET LM-5



S. LINE OF OLD TRAIL P.U.D.
(P.B. 10, PG. 64)

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JONATHAN'S
LANDING
— GOLF CLUB —

Sheet Title

**LAKE MODIFICATION
PLAN**

Job Title

**JONATHAN'S LANDING
OLD TRAIL GOLF CLUB**
55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 32154

NORTH

Revisions	
07/15/20	PRELIMINARY PLANS
11/16/20	SPMDO RESUBMITTAL
12/16/20	SPMDO RESUBMITTAL

Phase:
PERMITTING

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Job No. 18-1416.02	Plot Date 12/16/20
Drawn by NAH	Sheet No. LM-4
Proj. Mgr. DRS	
Appr. by DRS	5 of 10

DENNIS R. SHULTZ

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No 56159

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LAKE AREA CALCULATION AND LEGEND:

P.A.

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PRESERVE AREAS

EXISTING LAKE AREA

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NET 1.44 ACRES (62,732 SF) LAKE INCREASE

EXIST. DRAINAGE PIPE

EXTENDED DRAINAGE PIPE

NEW DRAINAGE PIPE

IMPERMEABLE BARRIER

LIMIT OF WORK LINE

KEY MAP

SEE SHEET LM-2

SEE SHEET LM-4

SEE SHEET LM-6

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JONATHAN'S

LANDING

GOLF CLUB

Sheet Title

LAKE MODIFICATION PLAN

Job Title

JONATHAN'S LANDING
OLD TRAIL GOLF CLUB
55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 33154

NORTH

Revisions		
	07/15/20	PRELIMINARY PLANS
	11/16/20	SPMD RESUBMITTAL
	12/16/20	SPMD RESUBMITTAL

Phase:
PERMITTING

SEAL

Scale: 1"=100'	Date 07/10/20
Job No. 18-1416.02	Plot Date 12/16/20
Drawn by NAH	Sheet No.
Proj. Mgr. DRS	LM-5
Appr. by DRS	6 of 10

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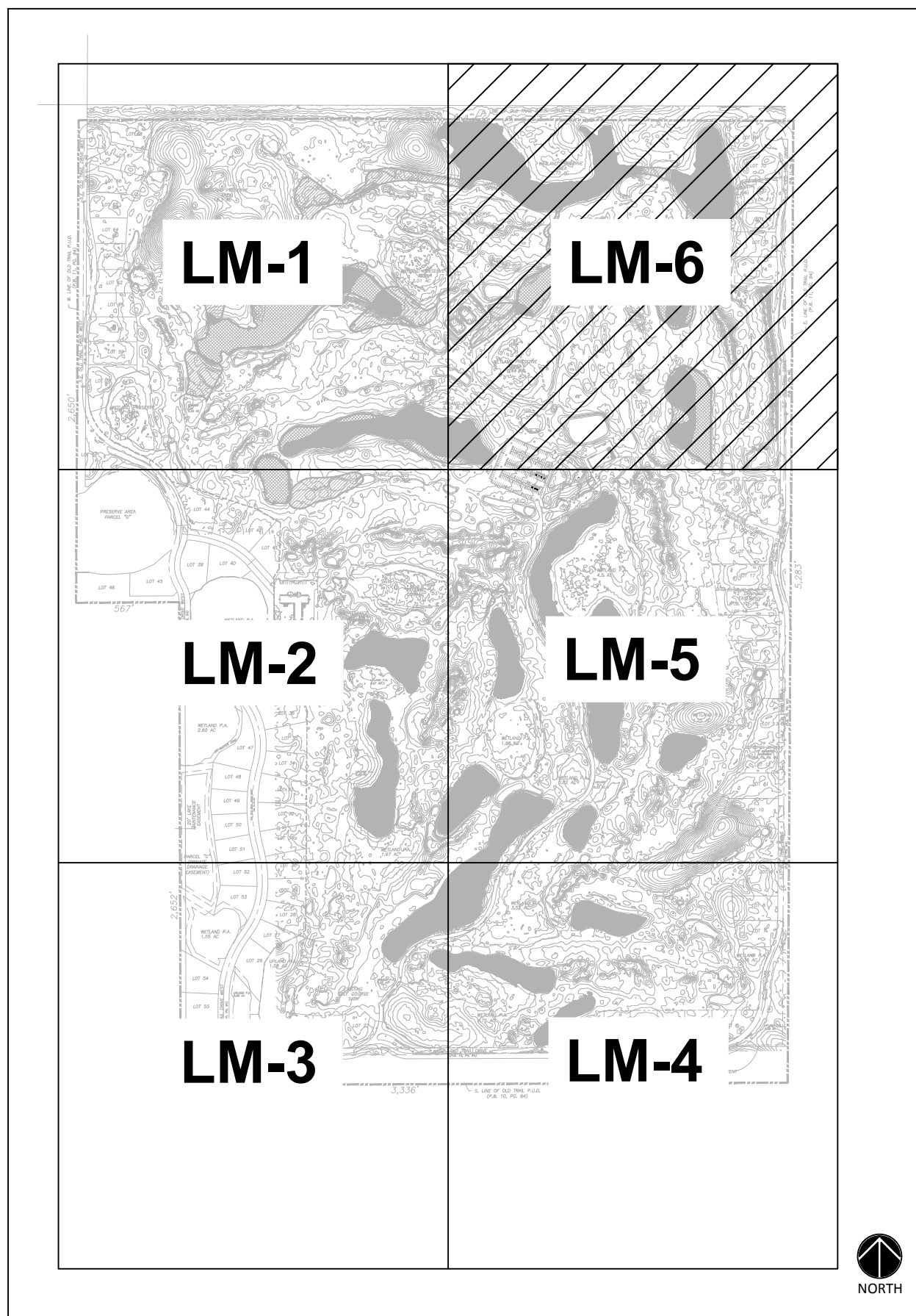


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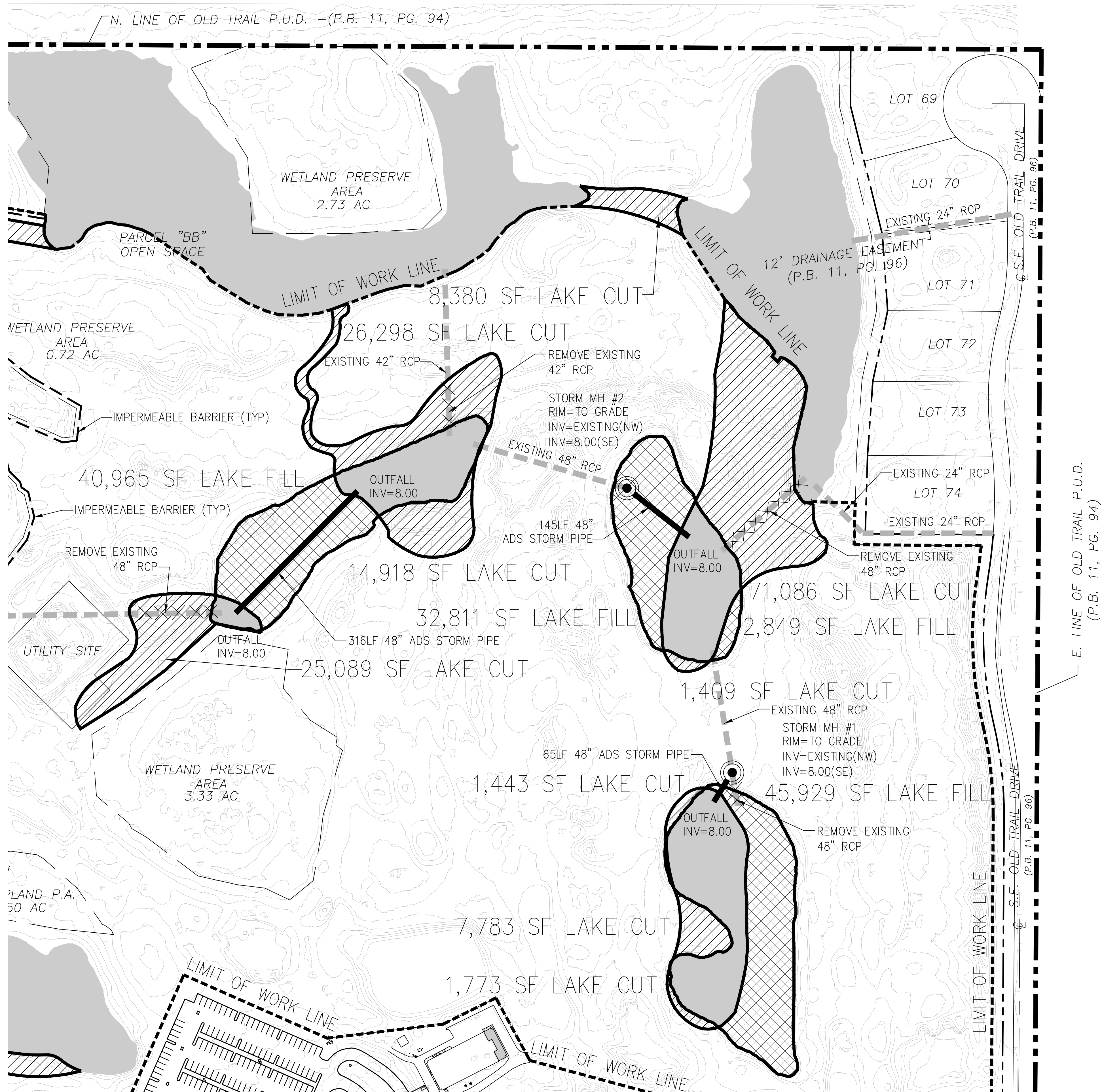
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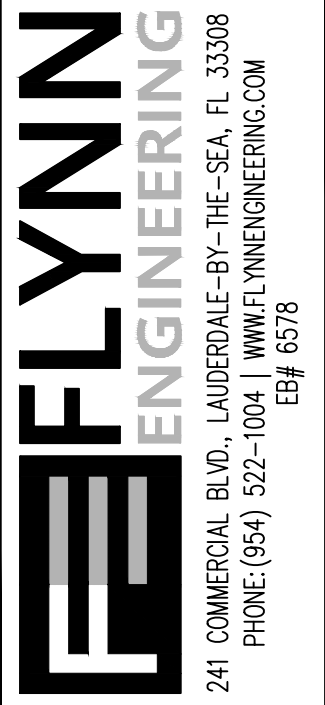


KEY MAP

SEE SHEET LM-1



SEE SHEET LM-5



LAKE MODIFICATION
PLAN

JONATHAN'S LANDING
OLD TRAIL GOLF CLUB
55 INDIAN CREEK ISLAND RD,
INDIAN CREEK, FL 33154



Revisions	
07/15/20	PRELIMINARY PLANS
11/09/20	PRELIMINARY PLANS
11/16/20	SPWMD RESUBMITTAL
12/09/20	SPWMD RESUBMITTAL
12/16/20	SPWMD RESUBMITTAL

Phase:
PERMITTING

SEAL

Scale: 1"=100'	Date 07/10/20
Job No. 18-1416.02	Plot Date 12/16/20
Drawn by NAH	Sheet No. LM-6
Proj. Mgr. DRS	
Appr. by DRS	7 of 10

[illegible]

The drawing consists of two views: a cross-section labeled 'SECTION' and a plan view labeled 'PLAN'.

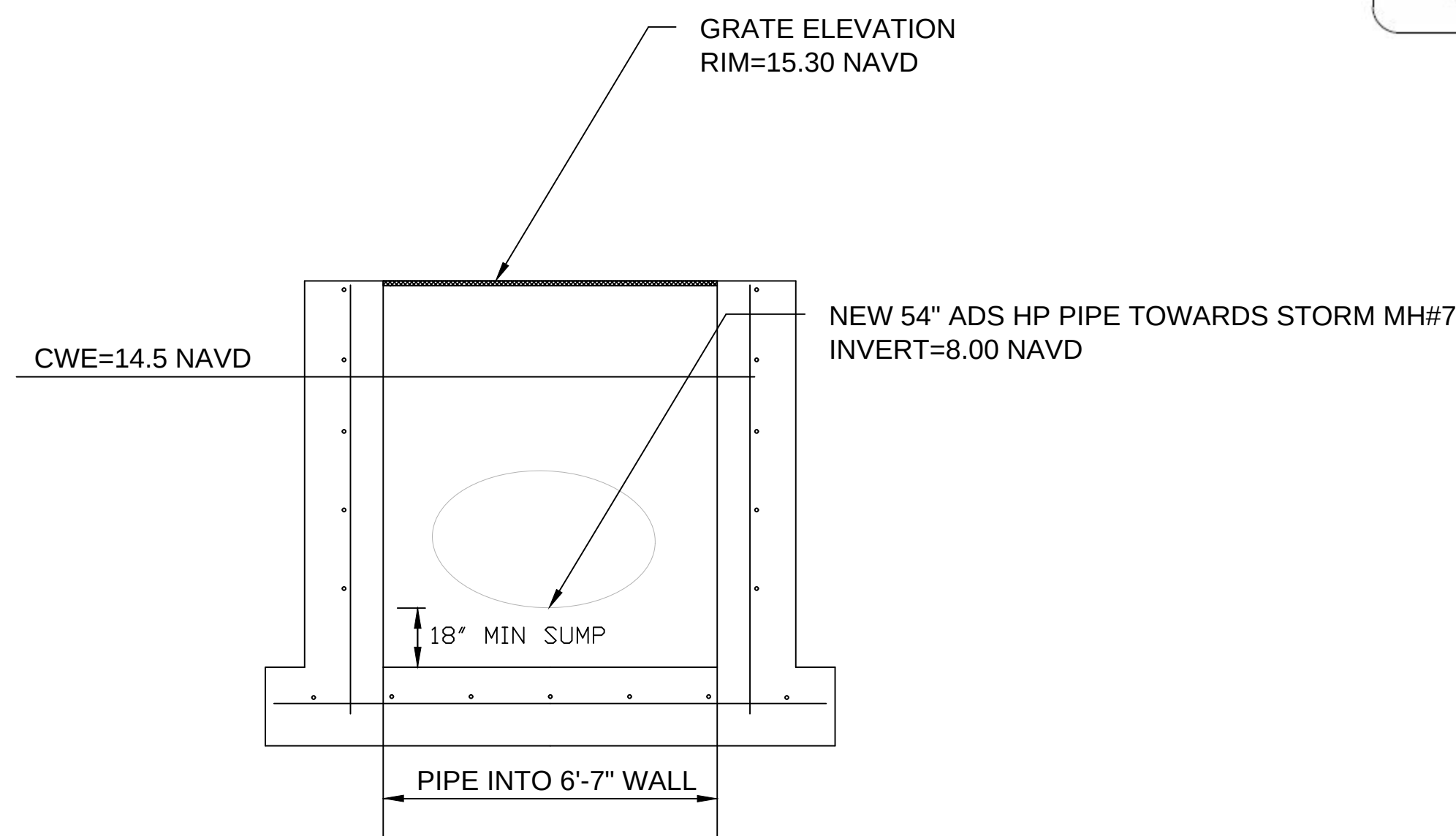
SECTION View: This view shows the vertical profile of the drainage structure. At the top, there is a 'CATCH BASIN FRAME & GRATE' with a 'JUNCTION BOX FRAME & GRATE' on either side. The 'PROPOSED GRADE, SLOPE TO DRAIN TOWARDS CATCH BASINS, TOP' is indicated. Below the grates is a 'BRICK TO GRADE BY CONTRACTOR'. The main body of the structure is a 'TOP SLAB' with 'STANDARD HOOKS TIED UNDER BASE STEEL'. Dimensions include '1" C' for the top slab thickness, '18" MIN.' for the height of the main body, and '1" C' for the base slab thickness. A note 'SEE TABLE FOR DIMENSIONS' points to the main body. A dimension '1" C' is also shown for the width of the top slab.

PLAN View: This view shows the top-down layout of the drainage structure. It is a square with a central square opening. The opening has a width of '37"'. The distance from the center of the opening to the outer edge of the top slab is '1" C'. The total width of the top slab is '1" C'. A note 'ADDITIONAL REINFORCING #8 BARS' points to the reinforcement in the top slab. A dimension '1" C' is also shown for the width of the top slab.

SECTION B-B: This view shows a cross-section of the drainage structure, labeled 'SECTION B-B'. It shows a '1" C' thick top slab with 'STANDARD HOOKS TIED UNDER BASE STEEL'. The main body has a height of '18" MIN.' and a width of '1" C'. A note 'SEE TABLE FOR DIMENSIONS' points to the main body. A dimension '1" C' is also shown for the width of the top slab.

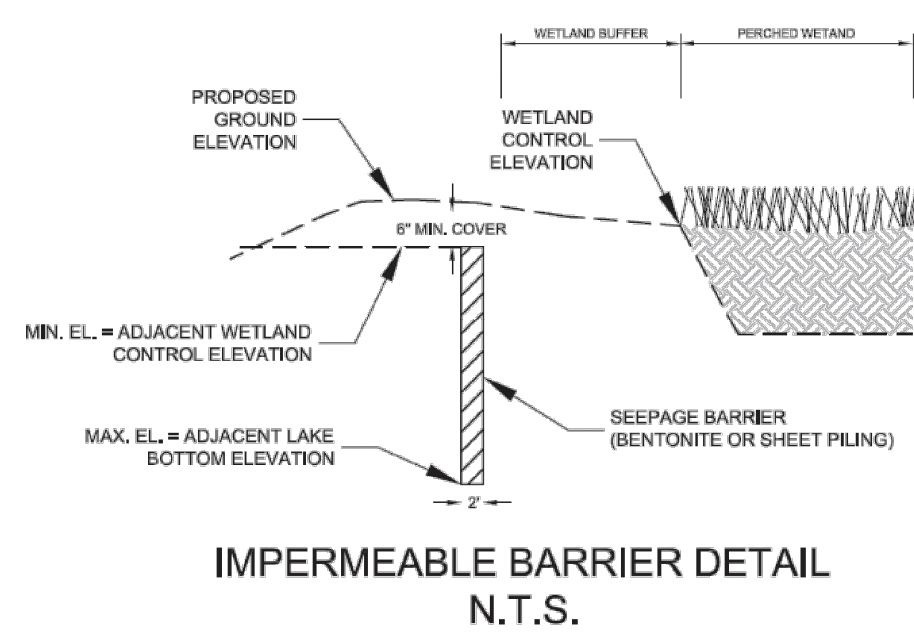
DRAINAGE STRUCTURE TOP SLAB DETAIL

N.T.S.

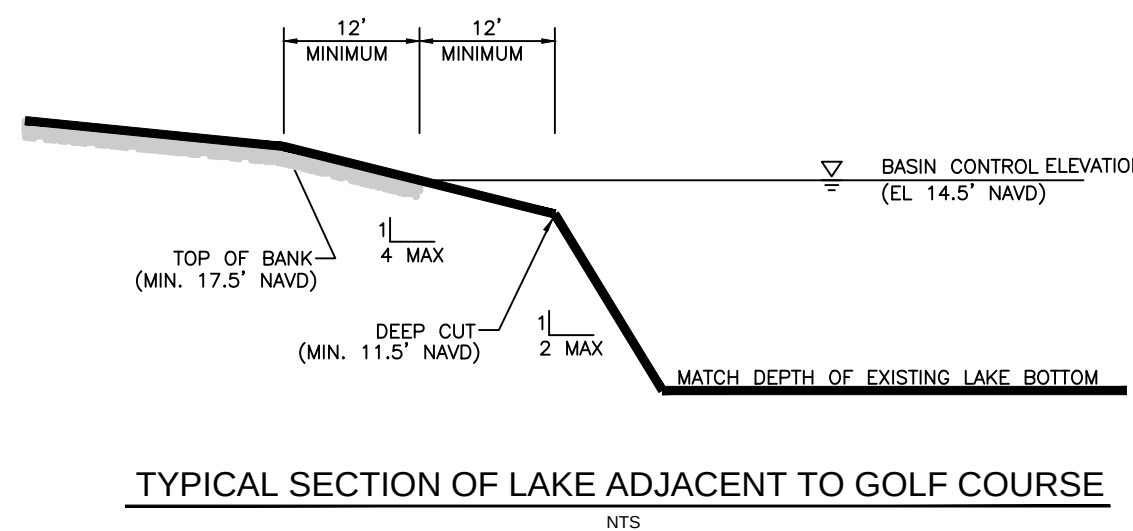
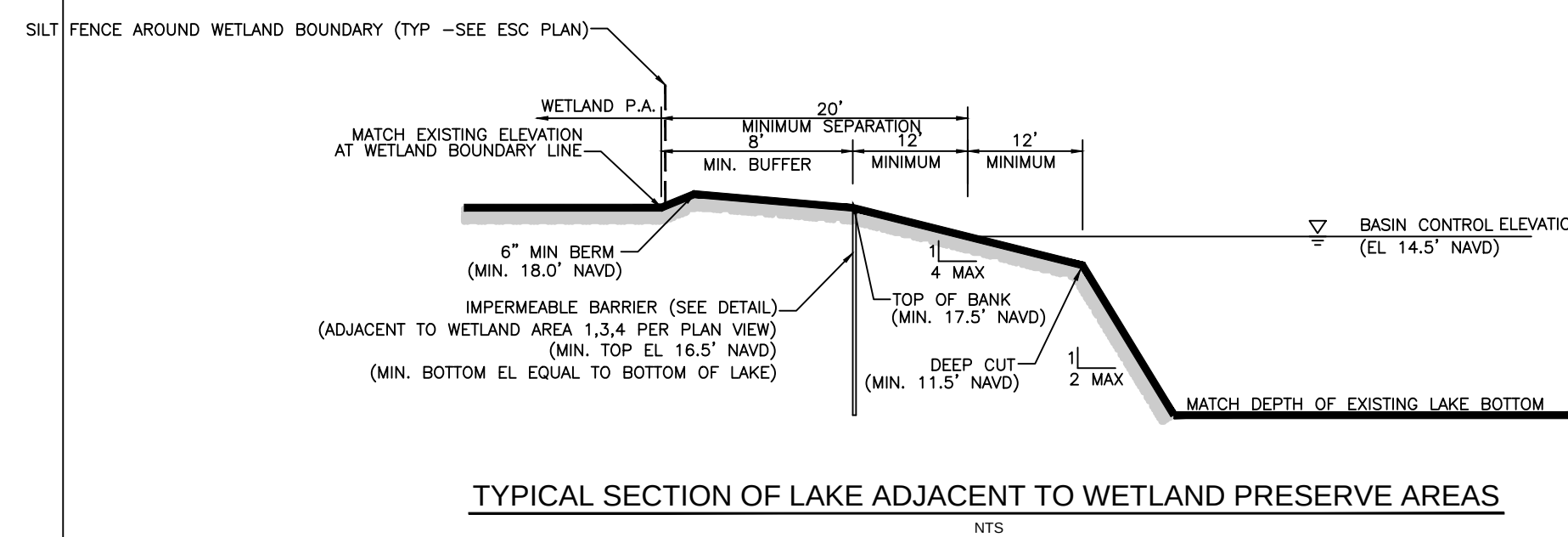


1. NEW CS#1 ADDED TO INCREASE WATER QUALITY VOLUME PROVIDED.
2. STRUCTURE TO BE SET IN MIDDLE OF CONSTRUCTED LAKE BANK.
3. ELEVATIONS SHOWN ARE IN NAVD 88 DATUM.

NEW CONTROL STRUCTURE - CS#1
(SEE PLAN LM-2 FOR SPECIFIC LOCATION)



1. SOIL BENTONITE SURFACE SEEPAGE BARRIER SHALL MEET THE FOLLOWING REQUIREMENTS:
 - a. A MINIMUM BENTONITE CONTENT OF 3.0% BY DRY WEIGHT OF SOIL.
 - b. A MINIMUM OF 13% MATERIAL (BENTONITE AND SOIL) BY DRY WEIGHT FINER THAN THE U.S. STANDARD NO. 200 SIEVE DETAINED IN A 200 SIEVE.
 - c. A COEFFICIENT OF PERMEABILITY EQUAL TO OR LESS THAN 1.0×10^{-10} CMSECS AT THE IN-SITU DENSITY.
 - d. A SATURATED PASTE PLACEMENT CONSISTENCY AND WATER CONTENT CORRESPONDING TO A SLUMP CONE VALUE OF 4 TO 10 INCHES DETERMINED IN ACCORDANCE WITH ASTM C438.
 - e. A PLACEMENT SATURATION OF 100% TO BE PROVEN BY TEST TO BE GREATER THAN THE BENTONITE SURFACE DETERMINED IN ACCORDANCE WITH API RP 158.
2. CONTRACTOR MUST CONTACT ENGINEER FOR SPECIFICATION A MINIMUM OF A FULL BUSINESS DAY PRIOR TO THE START OF THE WORK.
3. CONTRACTOR MUST PROVIDE ENGINEER WITH PHOTO DOCUMENTATION OF INSTALLATION AS REQUIRED FOR SFVMD CERTIFICATION.
4. CONTRACTOR TO PROVIDE AS-BUILT SURVEY OF FINAL BARRIER EXTENTS WITH SOUNDINGS AT A MINIMUM OF 20' INTERVAL.
5. ALTERNATIVELY, SHEET PILING MAY BE SUBSTITUTED FOR SOIL BENTONITE SURFACE SEEPAGE BARRIER.



TYPICAL SECTION OF GOLF COURSE ADJACENT TO WETLAND PRESERVE AREAS

* EXISTING STORM DRAINAGE SHOWN IS BASED ON AS-BUILTS OBTAINED FROM PERMIT FILE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR AND ADJUSTED AS REQUIRED. QUANTITIES OF NEW AND EXTENDED PIPE ARE SUBJECT TO EXISTING INFORMATION PROVIDED BY THE OWNER.

* TOPOGRAPHY SHOWN IS BASED ON TOPO CAD FILE PROVIDED BY WANTMAN GROUP FOR PREVIOUS 2018 GOLF COURSE RENOVATION

* ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

CONTROLLED WATER ELEVATION (CWE)* IS 14.5 NAVD (16.0 NGVD)
* THE CONVERSION FACTOR IS NAVD+1.47'=NGVD

* REFER TO ESC PLANS FOR EROSION AND SEDIMENT CONTROL MEASURES.

1. REMOVE NOXIOUS VEGETATION (BRAZILIAN PEPPER, FLORIDA HOLLY, MELALEUKA, ETC.) SEMI-ANNUALLY FROM ALL PRESERVE AREAS.
2. PRESERVATION AREAS ARE NOT TO BE DISTURBED OR ALTERED WITHOUT PRIOR APPROVAL BY MARTIN COUNTY BOARD OF COUNTY COMMISSIONERS.
3. NATURAL VEGETATION OF LITTORAL ZONE PLANT SPECIES WILL BE ENHANCED BY SUPPLEMENTAL ORGANIC MATERIAL AND APPROVED SEED MIX IN LAKE AREAS NOT CONDUCTIVE TO NATURAL WATER BODY CIRCULATION.
4. PRESERVE AREA SIGNS SHALL BE PLACED ALONG THE PRESERVE AREA BOUNDARY AT A FREQUENCY NO LESS THAN ONE SIGN PER 500 FEET.

P.A. = PRESERVE AREAS

EXISTING LAKE AREA

LAKE EXPANSION= 9.81 ACRES (427,439 SF)

LAKE FILL= 8.37 ACRES (364,707 SF)

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- - - - - EXIST. DRAINAGE PIPE
 - - - - - EXTENDED DRAINAGE PIPE
 _____ NEW DRAINAGE PIPE
 - - - - - IMPERMEABLE BARRIER
 - - - - - LIMIT OF WORK LINE



Sheet Title
**OVERALL
PROPOSED GRADING PLAN**

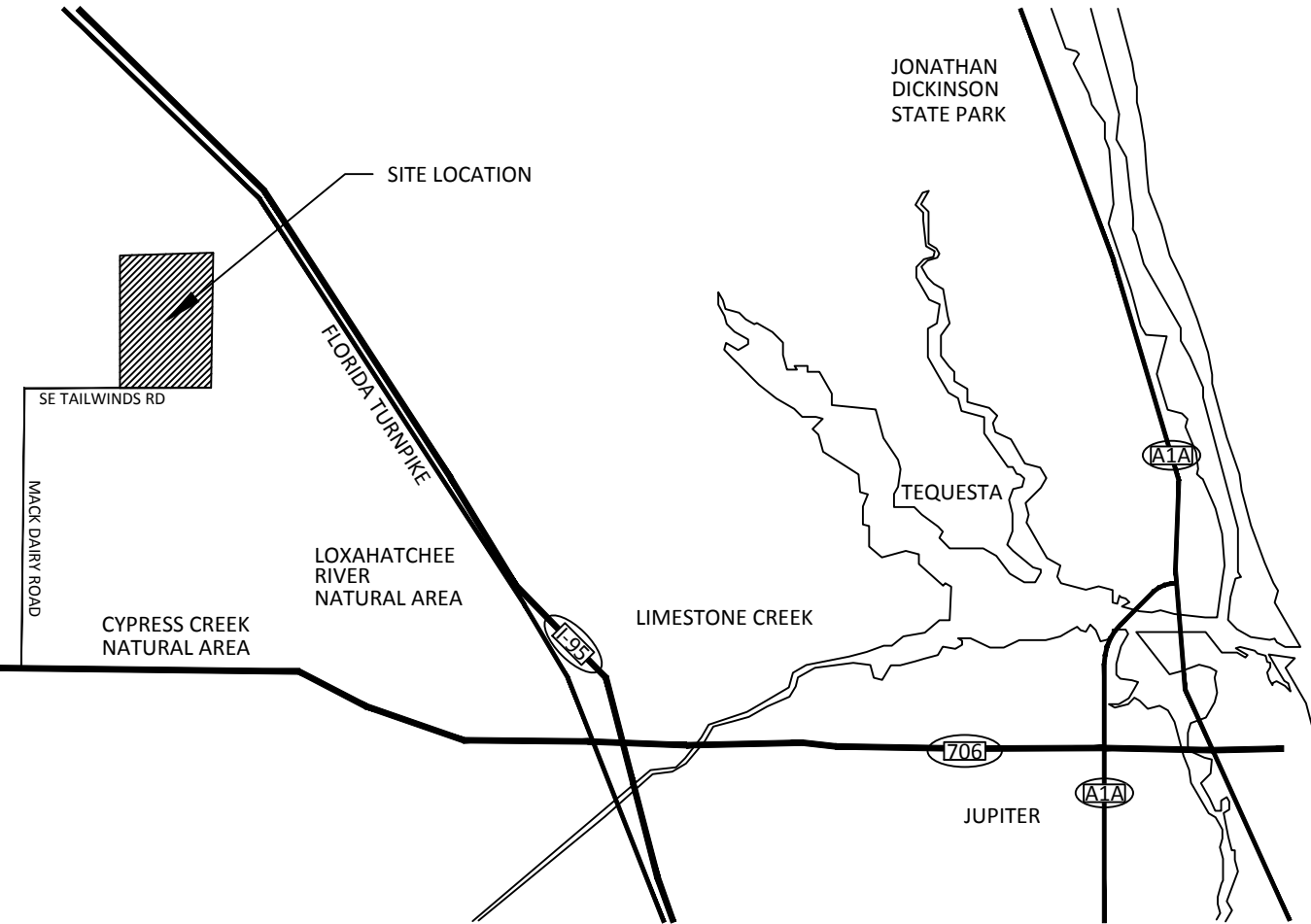
Job Title
**JONATHAN'S LANDING OLD TRAIL
GOLF CLUB**

Phase:
PERMITTING

Revisions

07/15/20	PRELIMINARY PLANS
11/09/20	PRELIMINARY PLANS
12/16/20	SWMD RESUBMITTAL

Scale:	Date
N.T.S.	07/10/20
Job No.	Plot Date
18-1416.02	12/16/20
Drawn by	Sheet No.
NAH	GP
Proj. Mgr.	
DRS	
Appr. by	9 of 10
DRS	



LOCATION MAP
NTS

P.A. = PRESERVE AREAS

LAKE AREA CALCULATION AND LEGEND:

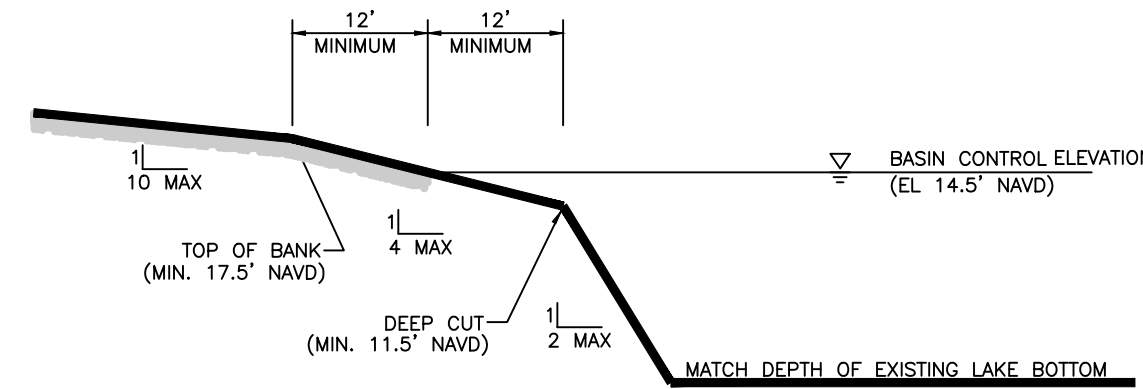
- EXISTING LAKE AREA
- LAKE EXPANSION= 9.81 ACRES (427,439 SF)
- LAKE FILL= 8.37 ACRES (364,707 SF)

NET 1.44 ACRES (62,732 SF) LAKE INCREASE

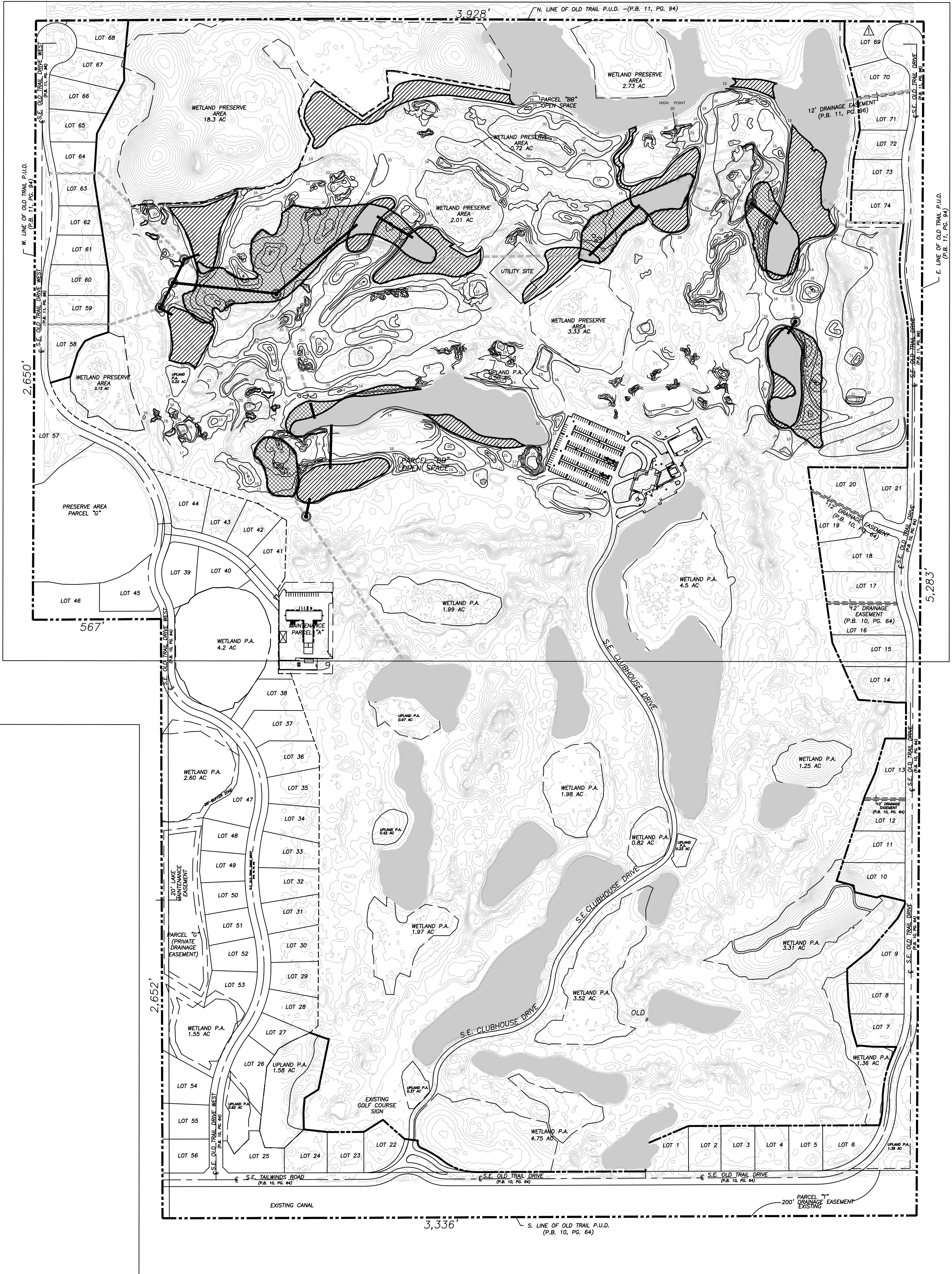
- EXIST. DRAINAGE PIPE
- EXTENDED DRAINAGE PIPE
- NEW DRAINAGE PIPE

GENERAL NOTES:

- EXISTING STORM DRAINAGE SHOWN IS BASED ON AS-BUILTS OBTAINED FROM PERMIT FILE AND SHOULD BE FIELD VERIFIED BY CONTRACTOR AND ADJUSTED AS REQUIRED. QUANTITIES OF NEW AND EXTENDED PIPE ARE SUBJECT TO EXISTING INFORMATION PROVIDED BY THE OWNER.
- TOPOGRAPHY SHOWN IS BASED ON TOPO CAD FILE PROVIDED BY WANTMAN GROUP FOR PREVIOUS 2018 GOLF COURSE RENOVATION.
- ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- CONTROLLED WATER ELEVATION (CWE)* IS 14.5 NAVD (16.0 NGVD)
- THE CONVERSION FACTOR IS NAVD+1.47=NGVD
- REFER TO ESC PLANS FOR EROSION AND SEDIMENT CONTROL MEASURES.



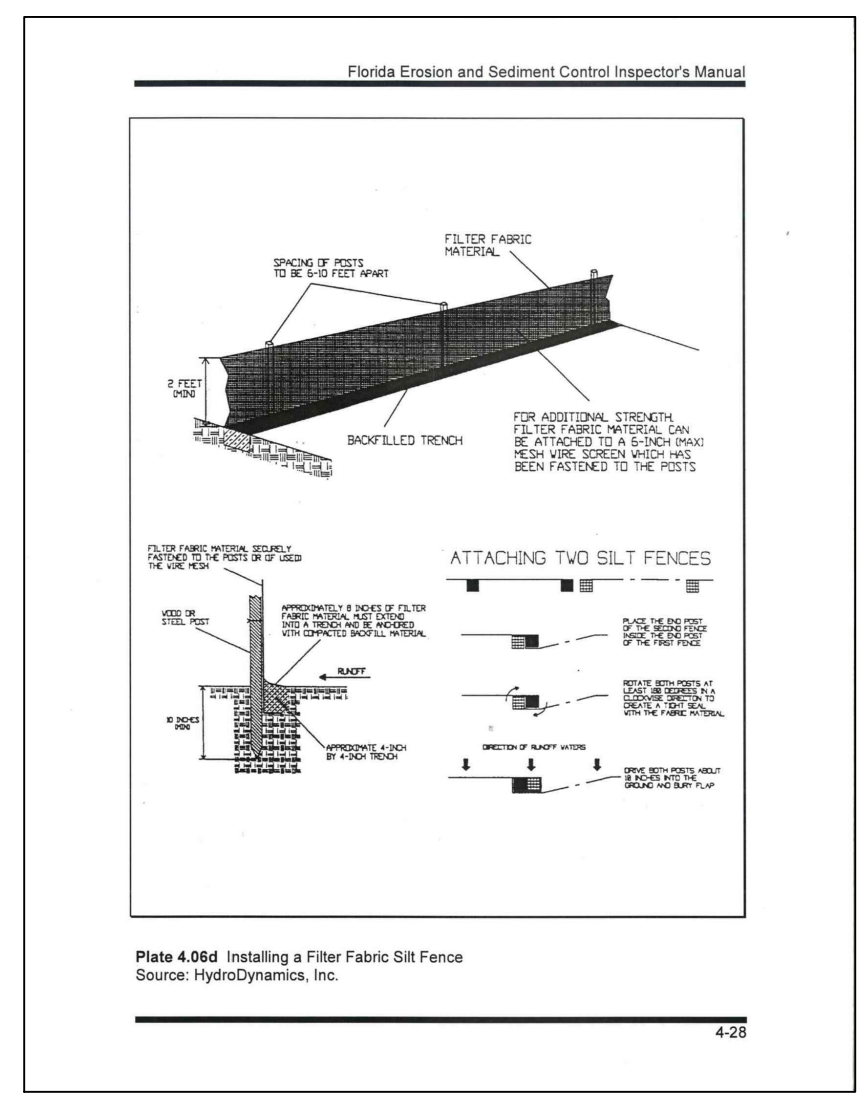
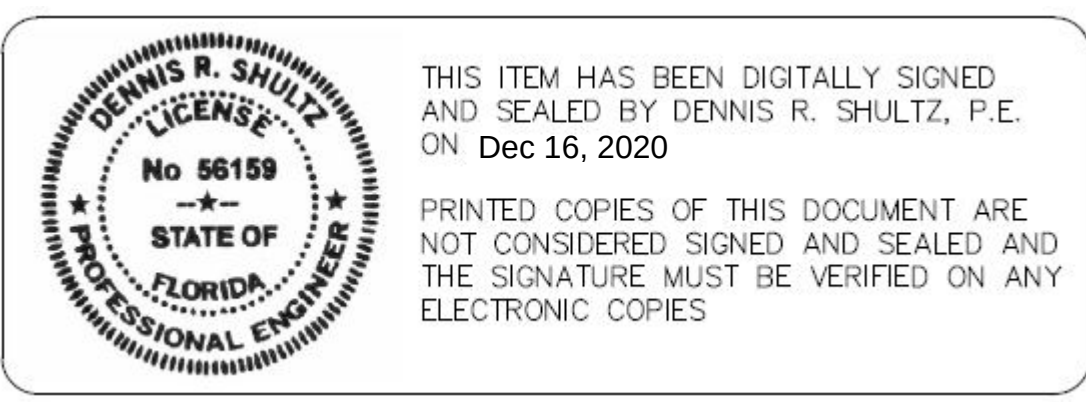
TYPICAL LAKE SECTION
NTS



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY DENNIS R. SHULTZ, P.E.
ON Dec 16, 2020

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- ## ESC NOTES:
1. THIS PLAN REFLECTS THE ENGINEER'S SUGGESTION FOR EROSION AND SEDIMENT CONTROL. SITE OPERATOR TO MODIFY PLAN AS NEEDED TO MAINTAIN "BEST MANAGEMENT PRACTICES" DURING CONSTRUCTION.
 2. AT ALL TIMES DURING CONSTRUCTION, ALL STORMWATER MUST REMAIN ONSITE. NO DISCHARGE INTO THE PUBLIC RIGHT OF WAY OR ADJOINING PROPERTIES IS ALLOWED.
 3. DRAINAGE STRUCTURES INSTALLED TO BE PROTECTED WITH FILTER FABRIC AND/OR PERMALLOW SILT FENCE.
 4. PROVIDE FILTER FABRIC OR OTHER METHOD OF SEDIMENT PROTECTION FOR ANY EXISTING CATCH BASIN/INLET WITHIN 100 FEET OF THE PROJECT AREA.
 5. ANY SEDIMENT THAT IS TRACKED ONTO ROADS MUST BE SWEEP UP IMMEDIATELY.
 6. SEDIMENT SHALL NOT BE REMOVED BY WASHING/FLUSHING WITH WATER AT THE RIGHT OF WAY.
 7. ALL PRESERVE AREAS WITHIN WORK AREA (UPLANDS & WETLANDS) SHALL BE PROTECTED BY ORANGE SAFETY FENCING AROUND PERIMETER WITH SILT FENCE IN FRONT OF THE ORANGE SAFETY FENCING.

