

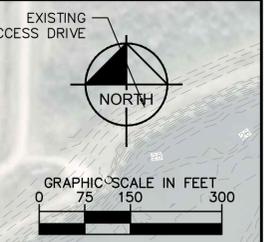
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Exhibit 4

SOUTH LAKE 1

SOUTH LAKE 2

EAST LAKE



24" RECLAIMED WATER MAIN TO REMAIN

EXISTING ACCESS DRIVE

CREEK

WETLAND

WETLAND

EAST LAKE EXPANSION

RECLAIMED PUMP BACK STATION TO REMAIN

RELOCATE EX. SCREEN

EX. SCREEN RELOCATION

REMOVE PORTION OF 36" INTAKE PIPE

36" INTAKE PIPE TO REMAIN

ACCESS DRIVE

EXISTING SOUTH LAKE 2 DISCHARGE LOCATION

WETLAND

**SEWRF East Lake Expansion**

This project component includes the reclaimed water storage area expansion of the East Lake at the South East Water Reclamation Facility in Manatee County. The scope of work includes erosion control installation, excavation, compaction, grading, dewatering, and stabilization of the new berm area located at East Lake. The expansion area is delineated as mainly "upland" area with minimal impacts to wetlands. The first 1.5' to 2.0' of cut area is expected to be unsuitable organic topsoil with roots/vegetation and is not suitable for fill material. The large vegetation can be burned onsite with a permit, other topsoil unsuitable material must be taken to the landfill on site. The East Lake expansion berms will be created with the excavated soil material, which must be mechanically mixed and free of clayey fine sands, silt, or clay. All mixed fill will need to be placed in lifts not to exceed 12 inches, compacted to 93% minimum per the modified proctor test and geotechnical report recommendations. The East Lake expansion berms will be graded at a 3:1 slope interior and exterior and shall be stabilized within 30-days to prevent erosion due to rainwater. Other miscellaneous improvements include the removal of 1200 +/- linear feet of 36-inch ductile iron pipe and relocation of the east lake intake screen.

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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KHA PROJECT 148400015
DATE 3/3/2022
SCALE AS SHOWN
DESIGNED BY MAS
DRAWN BY GMB
CHECKED BY WEW

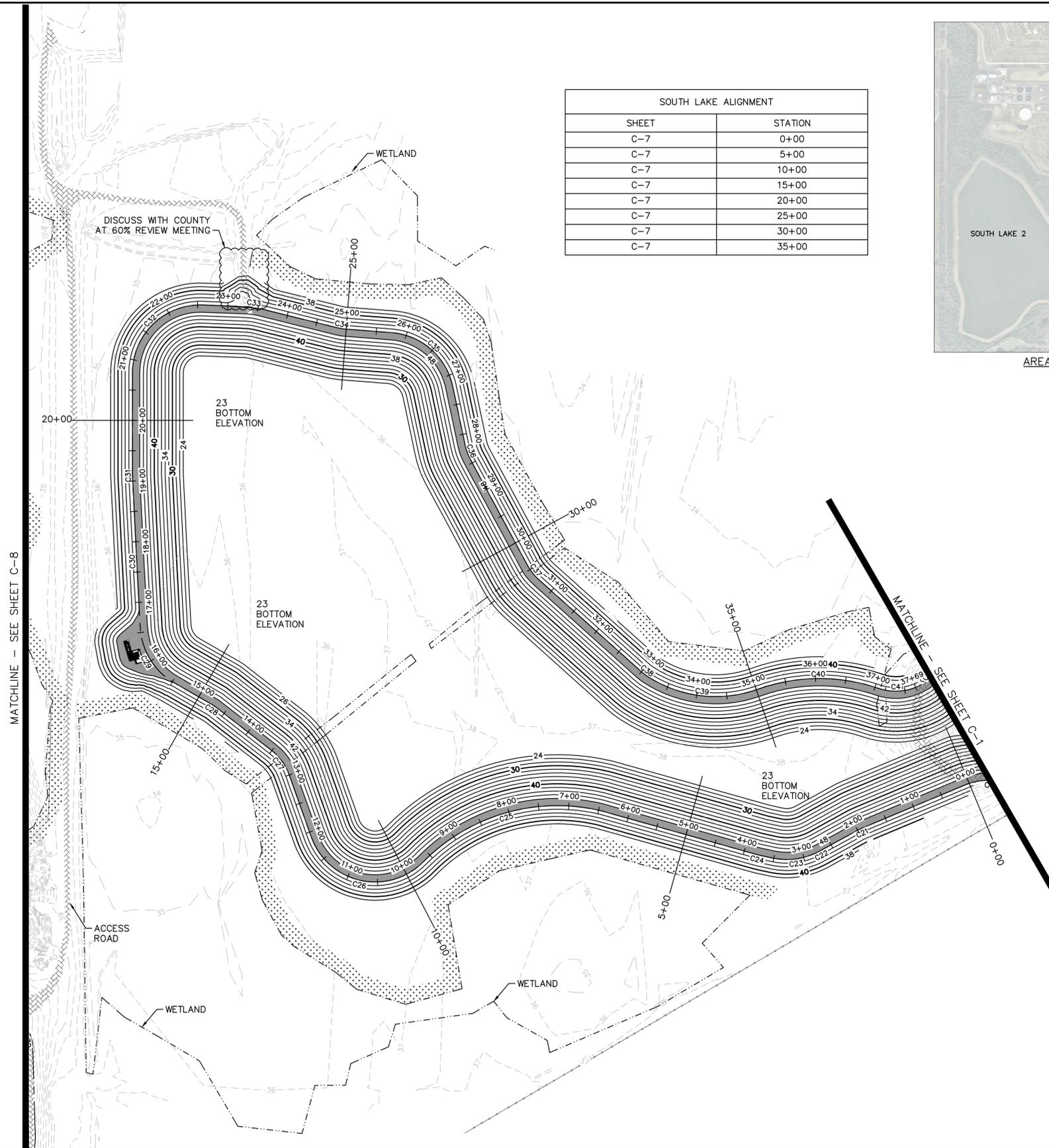
**SEWRF RECLAIMED PUMP BACK STATION**  
 MANATEE COUNTY

LICENSED PROFESSIONAL
MICHAEL A. SEMAGO, P.E.
FL LICENSE NUMBER 87501
FL DATE:

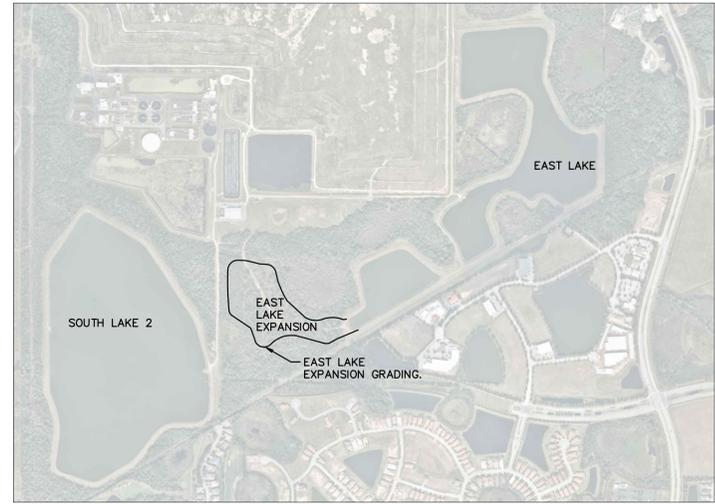
**EAST LAKE EXPANSION EXHIBIT**

SHEET NUMBER
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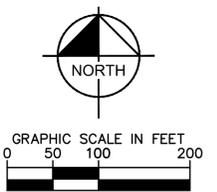
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SOUTH LAKE ALIGNMENT	
SHEET	STATION
C-7	0+00
C-7	5+00
C-7	10+00
C-7	15+00
C-7	20+00
C-7	25+00
C-7	30+00
C-7	35+00



AREA OF INTEREST: EAST LAKE EXPANSION



LEGEND:  
 25' WETLAND BUFFER  
 PROPOSED ACCESS ROAD (SEE SHEET C-28 FOR DETAILS.)  
 EXISTING ACCESS ROAD

CURVE TABLE								
CURVE	RADIUS	LENGTH	START NORTHING EASTING	START STATION	END NORTHING EASTING	END STATION	PI NORTHING EASTING	PI STATION
C21	88.00'	9.19'	N: 1136961.5269 E: 512393.1094	1+91.05	N: 1136957.5469 E: 512384.8315	2+00.24	N: 1136959.7532 E: 512388.8665	1+95.64
C22	96.64'	2.98'	N: 1136923.8427 E: 512323.1919	2+70.49	N: 1136922.4539 E: 512320.5561	2+73.47	N: 1136923.1280 E: 512321.8847	2+71.98
C23	112.00'	76.27'	N: 1136921.5055 E: 512318.6870	2+75.56	N: 1136911.8781 E: 512244.5044	3+51.83	N: 1136903.5508 E: 512283.3012	3+15.24
C24	96.64'	5.96'	N: 1136916.3206 E: 512223.8071	3+73.00	N: 1136917.7491 E: 512218.0262	3+78.96	N: 1136916.9458 E: 512220.8946	3+75.98
C25	311.71'	317.98'	N: 1136990.1583 E: 511959.4750	6+47.46	N: 1136905.6273 E: 511667.0802	9+65.43	N: 1137029.6788 E: 511789.6334	8+21.84
C26	112.00'	226.22'	N: 1136905.6273 E: 511667.0802	9+65.43	N: 1136946.7278 E: 511481.9092	11+91.65	N: 1136778.7976 E: 511541.7823	11+43.72
C27	88.00'	51.12'	N: 1137049.2226 E: 511445.3661	13+00.46	N: 1137089.8639 E: 511415.5501	13+51.59	N: 1137073.9995 E: 511436.5323	13+26.77
C28	84.64'	11.71'	N: 1137159.1374 E: 511326.1880	14+64.65	N: 1137165.6519 E: 511316.4633	14+76.37	N: 1137162.7317 E: 511321.5514	14+70.52
C29	112.00'	111.57'	N: 1137200.7198 E: 511255.3620	15+46.82	N: 1137291.8588 E: 511199.2733	16+58.39	N: 1137231.0382 E: 511202.5359	16+07.73
C30	96.64'	0.38'	N: 1137400.6048 E: 511193.4399	17+67.29	N: 1137400.9820 E: 511193.4204	17+67.67	N: 1137400.7934 E: 511193.4297	17+67.48
C31	96.64'	4.79'	N: 1137539.2761 E: 511186.5438	19+06.13	N: 1137544.0601 E: 511186.4245	19+10.92	N: 1137541.6666 E: 511186.4249	19+08.53
C32	112.00'	180.23'	N: 1137711.5483 E: 511186.3981	20+78.41	N: 1137823.4842 E: 511302.6772	22+58.64	N: 1137827.9308 E: 511186.3797	21+94.79
C33	112.00'	22.89'	N: 1137820.7343 E: 511374.5988	23+30.61	N: 1137817.5369 E: 511397.2230	23+53.50	N: 1137820.2955 E: 511386.0748	23+42.09
C34	88.00'	14.56'	N: 1137786.0724 E: 511524.3763	24+84.49	N: 1137783.7574 E: 511538.7344	24+99.05	N: 1137784.3196 E: 511531.4594	24+91.78
C35	112.00'	143.86'	N: 1137777.8822 E: 511614.7609	25+75.30	N: 1137689.4772 E: 511715.6891	27+19.16	N: 1137771.4273 E: 511698.2889	26+59.08
C36	88.00'	25.25'	N: 1137592.4693 E: 511736.2864	28+18.33	N: 1137568.8586 E: 511744.9762	28+43.57	N: 1137580.0364 E: 511738.9263	28+31.04
C37	88.00'	30.33'	N: 1137394.5520 E: 511839.3195	30+41.78	N: 1137370.8701 E: 511858.0201	30+72.10	N: 1137381.0838 E: 511846.6092	30+57.09
C38	88.00'	14.00'	N: 1137219.3132 E: 512027.3413	32+99.34	N: 1137210.8413 E: 512038.4734	33+13.35	N: 1137214.6334 E: 512032.5696	33+06.36
C39	207.02'	189.71'	N: 1137210.8413 E: 512038.4734	33+13.35	N: 1137190.2331 E: 512220.4525	35+03.06	N: 1137155.6612 E: 512124.3810	34+15.45
C40	302.10'	203.10'	N: 1137190.2331 E: 512220.4525	35+03.06	N: 1137191.5260 E: 512419.7441	37+06.16	N: 1137225.6958 E: 512319.8724	36+08.61
C41	88.00'	62.41'	N: 1137191.5260 E: 512419.7441	37+06.16	N: 1137193.2189 E: 512480.8340	37+68.57	N: 1137181.0625 E: 512450.6024	37+38.74

No.	REVISIONS	DATE	BY

**Kimley»Horn**  
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KHA PROJECT 148400015
DATE 4/17/2018
SCALE AS SHOWN
DESIGNED BY WWW
DRAWN BY ASR
CHECKED BY WEW

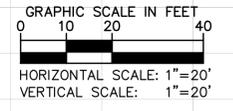
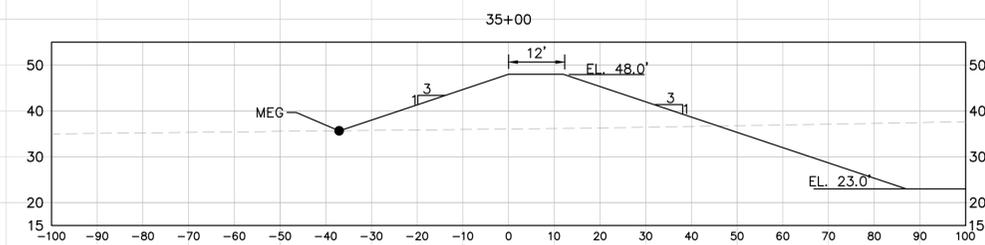
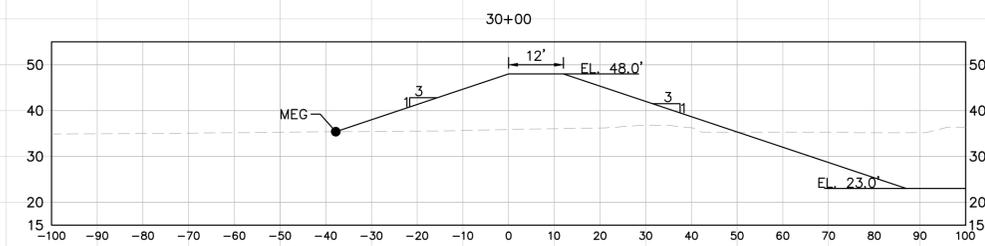
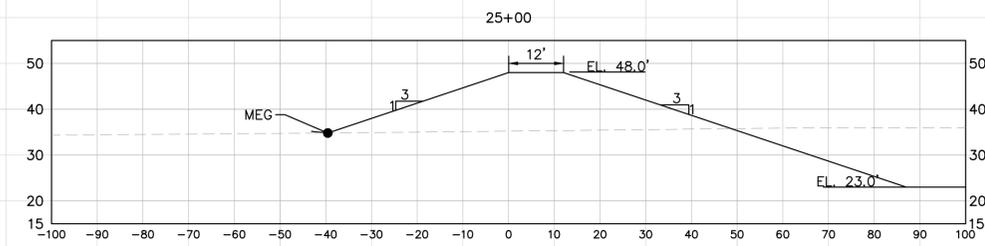
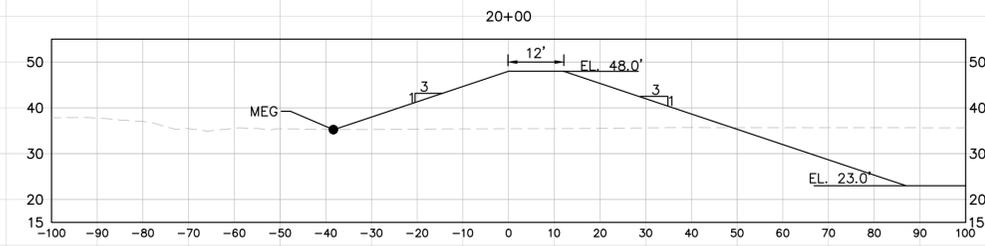
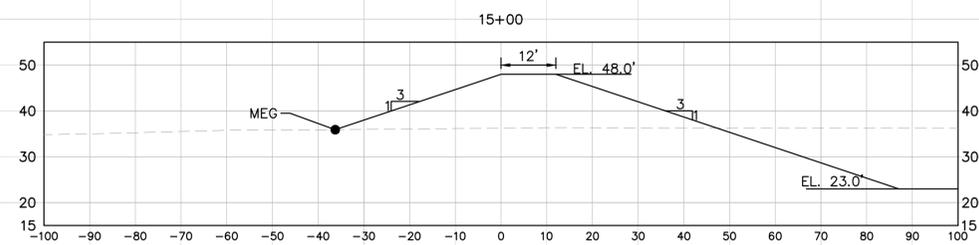
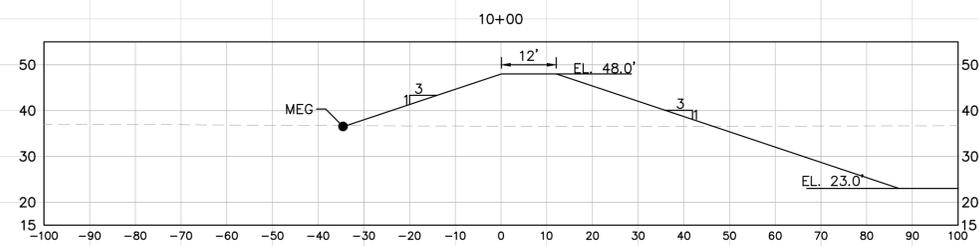
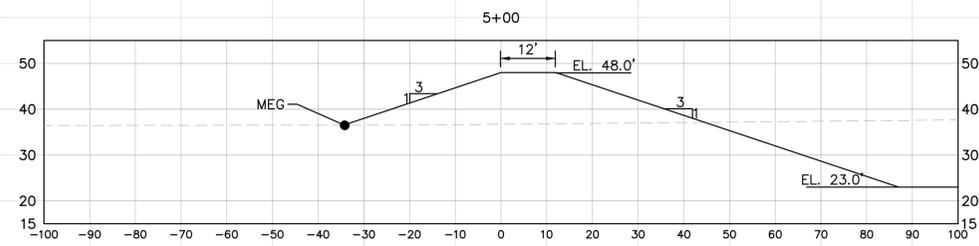
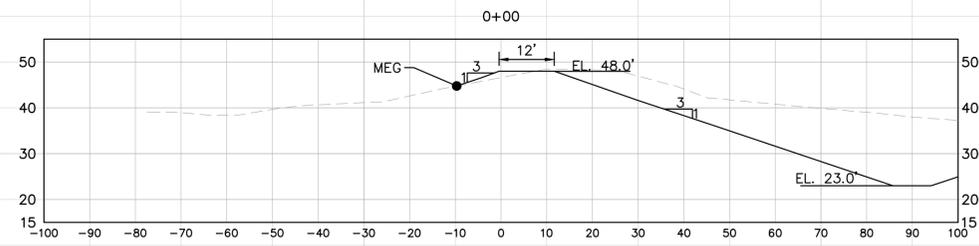
**Manatee County**  
**SEWRF RECLAIMED PUMP BACK STATION**  
 MANATEE COUNTY

LICENSED PROFESSIONAL
W. WADE WOOD, P.E.
FL LICENSE NUMBER 69051

**EAST LAKE EXPANSION AND REHABILITATION**

SHEET NUMBER
<b>C-6</b>

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No.	REVISIONS	DATE	BY

**Kimley»Horn**

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KHA PROJECT  
148400015  
 DATE  
4/17/2018  
 SCALE AS SHOWN  
 DESIGNED BY WWW  
 DRAWN BY ASR  
 CHECKED BY WEW

**Manatee County**  
 FLORIDA

**SEWRF RECLAIMED  
 PUMP BACK STATION**

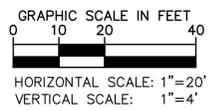
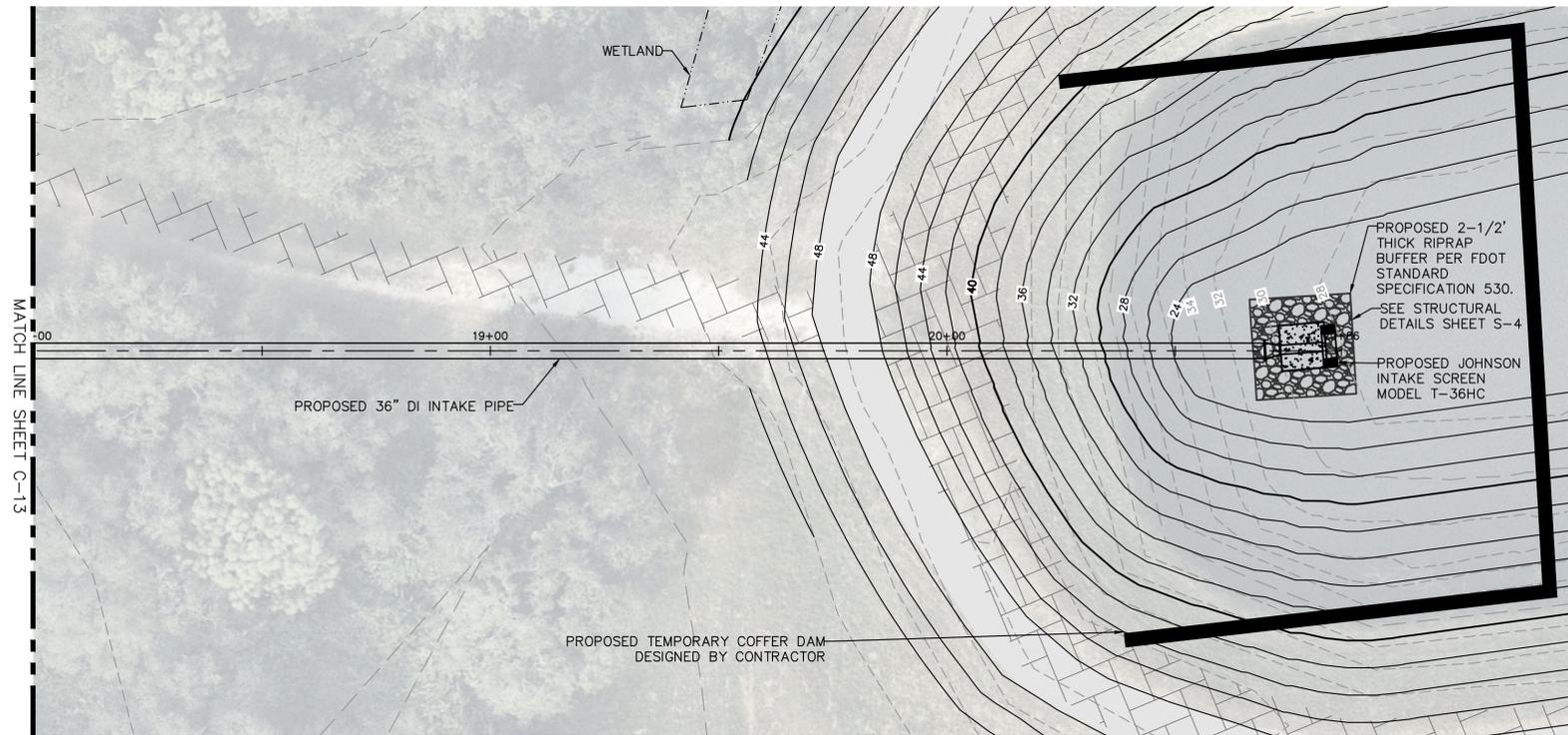
MANATEE COUNTY

LICENSED PROFESSIONAL  
 W. WADE WOOD, P.E.  
 FL LICENSE NUMBER  
 69051

**EAST LAKE EXPANSION  
 AND REHABILITATION**

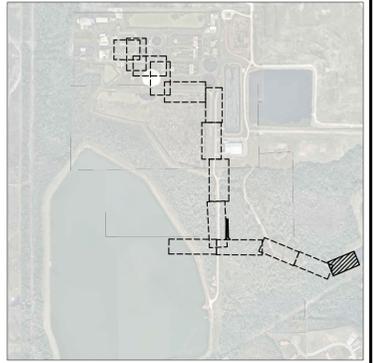
SHEET NUMBER  
**C-7**

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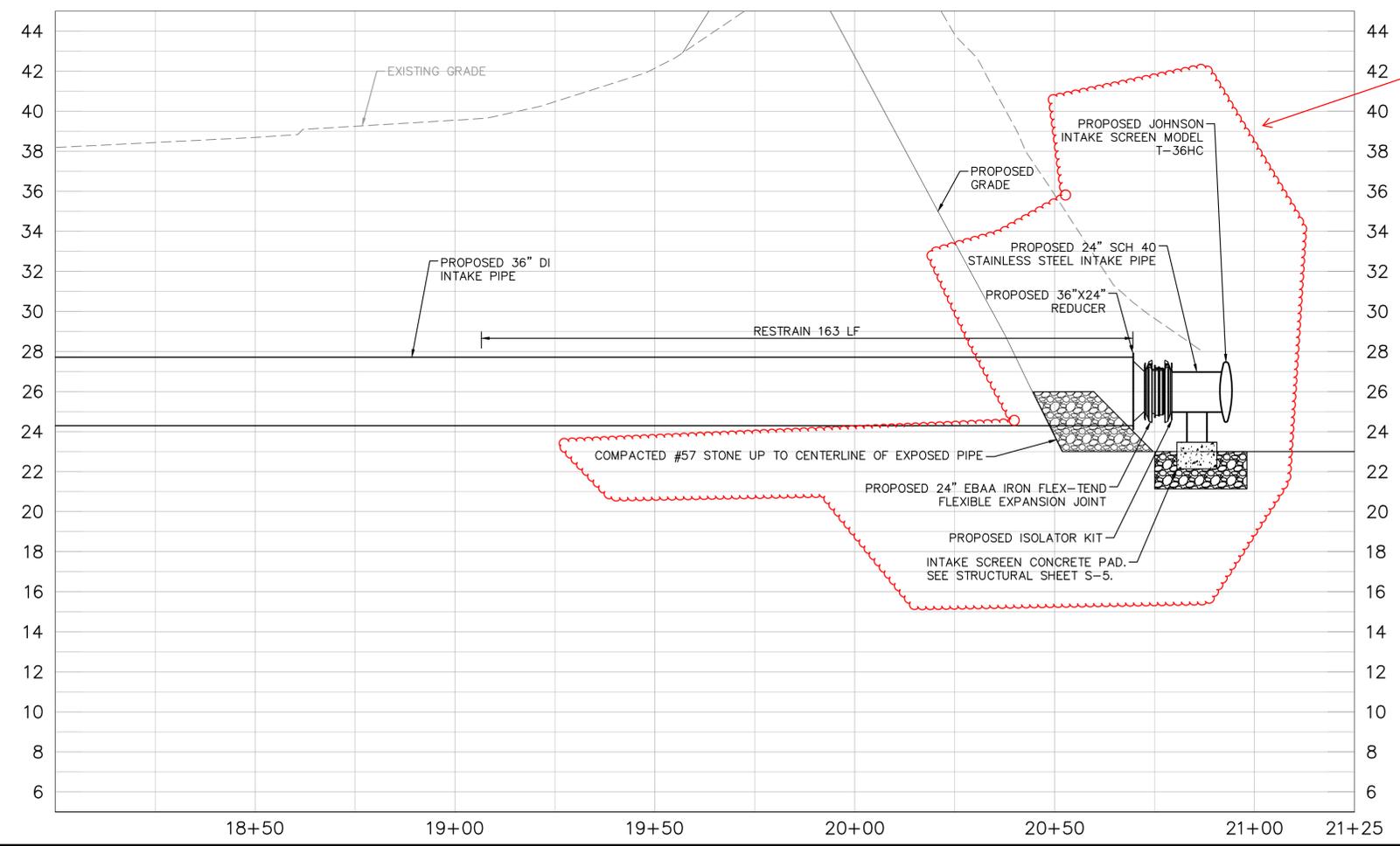


- NOTE:
- SUBMERGED DI PIPE AND FITTINGS SHALL BE RESTRAINED WITH INTEGRAL JOINT RESTRAINTS. EXTERNAL THRUST RESTRAINTS SHALL NOT BE ALLOWED.
  - CONTRACTOR SHALL INSTALL GRAVEL UP TO THE CENTERLINE OF SUBMERGED INTAKE PIPE

KEY SHEET



- LEGEND:
- PROPOSED ACCESS ROAD (SEE SHEET C-28 FOR DETAILS.)
  - EXISTING ACCESS ROAD



Existing intake screen to be relocated

\*NOTES:  
THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (\*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED FORCE MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

**GROUNDWATER / DEWATERING NOTE:**  
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 148400015
DATE 10/8/2020
SCALE AS SHOWN
DESIGNED BY SNR
DRAWN BY ASR
CHECKED BY WEW

**Manatee County FLORIDA**

**SEWRF RECLAIMED PUMP BACK STATION**

MANATEE COUNTY

LICENSED PROFESSIONAL
STEPHEN N. ROMANO, P.E.
FL LICENSE NUMBER 57579
FL DATE:

**PLAN & PROFILE - EAST LAKE INTAKE PIPING**

SHEET NUMBER
<b>C-14</b>