

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT POST OFFICE BOX 4970 JACKSONVILLE, FLORIDA 32232-0019

October 30, 2020

Regulatory Division North Permits Branch Jacksonville Permits Section SAJ-2020-01108 (NWP-TMM)

Jacksonville Electric Authority Attention: Andrew Sears 21 West Church Street Jacksonville, Florida 32202

Dear Mr. Sears:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit the file number SAJ-2020-01108. A review of the information and drawings provided indicates that the proposed work would result in discharge clean-fill material into 0.34 acre (0.28 acre at Well Site Number 3 and 0.06 acre at Well Site Number 2) acre of waters of the United States (palustrine wetlands) to facilitate the construction of two proposed production well structures, 2 dry retention basins, and associated 12-foot-wide access roads to support the RiverTown Water Treatment Plant Project. The project is located two site locations – Well Site Number 2 and Well Site Number 3. Well Site Number 2 is adjacent to the east of Longleaf Pine Parkway and south of a borrow pond at Latitude 30.043, Longitude -81.614631. Well Site Number 3 is 0.25 miles north of Well Site Number 2 and is adjacent to the west side of Longleaf Pine Parkway and is located at Latitude 30.048011, Longitude -81.614968. The sites are located within Sections 39, Township 5 South, Range 27 East, St. Johns, St. Johns County, Florida. The project would affect waters of the United States (wetlands) associated with Orange Grove Branch. The activities subject to this permit are authorized pursuant to authorities under Section 404 of the Clean Water Act (33 USC 1344).

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) 12 – *Utility Line Activities*. This authorization is valid until **March 18**. **2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is as follows:

http://www.saj.usace.army.mil/Missions/Regulatory.aspx

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 12. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. Reporting Address: The Permittee shall submit all reports, notifications, documentation, and correspondence required by the general and special conditions of this permit to either (not both) of the following addresses:

a. For electronic mail (preferred): <u>SAJ-RD-Enforcement@usace.army.mil</u> (not to exceed 15 MB).

b. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

The Permittee shall reference this permit number, SAJ-2020-01108, on all submittals.

2. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit the Permittee shall submit a completed "Commencement Notification" Form.

3. Posting of the permit: The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

4. Cultural Resources/Historic Properties:

a. No structure or work shall adversely affect impact or disturb properties listed in the *National Register of Historic Places* (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend, or revoke the permit in accordance with 33 CFR 925.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend, or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

5. Erosion Control: Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area into waters of the United States. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be stabilized using sod, degradable mats, barriers, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized.

6. Fill Material: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

7. Mitigation Bank Credit Purchase: Within 30 days from the date of initiating the work authorized by this permit, the Permittee shall provide verification to the Corps that 0.24 of WRAP federal mitigation bank credits have been purchased from the

Loblolly Mitigation Bank (SAJ-2002-07493). The required verification shall reference this project's permit number (SAJ-2020-01108).

8. Eastern Indigo Snake Protection Measures and Inspection: Permittee shall comply with U.S. Fish and Wildlife Service's "*Standard Protection Measures for the Eastern Indigo Snake*" dated August 12, 2013. All gopher tortoise burrows, active or inactive, shall be evacuated prior to site manipulation in the vicinity of the burrow. If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission (FWC) Authorized Gopher Tortoise Agent permit. The excavation method selected shall minimize the potential for injury of an indigo snake. The Permittee shall follow the excavation guidance provided in the most current FWC Gopher Tortoise Permitting Guidelines found at http://myfwc.com/gophertortoise. If an indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Holes, cavities, and snake refugia other than gopher tortoise burrows shall be inspected each morning before planned site manipulation of a particular area, and if occupied by an indigo snake, no work shall commence until the snake has vacated the vicinity of the proposed work.

9. Agency Changes/Approvals: Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Jacksonville Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.

10. Self-Certification: Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. Prior to the initiation of any construction, projects qualifying for this Nationwide permit must qualify for an exemption under section 403.813(1), Florida Statutes or 373.406, Florida Statutes, or otherwise be authorized by the applicable permit required under Part IV of Chapter 373, Florida Statutes, by the Department of Environmental Protection, a water management district under section 373.069, Florida Statutes, or a local government with delegated authority under section 373.441, Florida Statutes, and receive Water Quality Certification and applicable Coastal Zone Consistency Concurrence or waiver thereto, as well as any authorizations required for the use of state-owned submerged lands under Chapter 253,

Florida Statutes, and, as applicable, Chapter 258, Florida Statutes. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter of authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (<u>http://www.myfwc.com/license/wildlife/</u>) for more information, including a list of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (<u>http://www.fnai.org/</u>) also maintains updated lists, by county, of documented occurrences of those species.

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced GP, please contact Terri Mashour by telephone at 904-570-4512 or by email <u>Terri.M.Mashour@usace.army.mil.</u>

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. Please visit

<u>http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey</u> to complete our automated Customer Service Survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,

Muriel M. Blaisdell Chief, Jacksonville Permits Section

Enclosures

Copies Furnished: The NDN Companies. Attention: Brandon Faustini, <u>BFaustini@thendncompanies.com</u>

GENERAL CONDITIONS 33 CFR PART 320-330

1. The time limit for completing the work authorized ends on March 18, 2022.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

COMMENCEMENT NOTIFICATION

Within ten (10) days of initiating the authorized work, submit this form via electronic mail to <u>saj-rd-enforcement@usace.army.mil</u> (preferred, not to exceed 15 MB) or by standard mail to U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, Florida 32232-0019.

- 1. Department of the Army Permit Number: SAJ-2020-01108
- 2. Permittee Information:

Name:	
Email:	
Address:	
Phone:	
3. Construction St	art Date:
4. Contact to Sche	dule Inspection:
Name:	
Email:	
Phone:	
	Signature of Permittee
	Printed Name of Permittee

Date

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: NW-12 Application Number: SAJ-2020-01108

Permittee's Name & Address (please print or type):
Telephone Number:
Location of the Work:
Date Work Started: Date Work Completed:
PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES NO
TO SCHEDULE AN INSPECTION PLEASE CONTACT
Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.):
Acreage or Square Feet of Impacts to Waters of the United States:
Describe Mitigation completed (if applicable):
Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

Signature of Permittee

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2020-01108

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. <u>Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.</u>

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019.

(TRANSFEREE-SIGNATURE)	(SUBDIVISIO	DN)
(DATE)	(LOT)	(BLOCK)
(NAME-PRINTED)	(STREET AD	DRESS)
(MAILING ADDRESS)		

(CITY, STATE, ZIP CODE)



CONTRACTOR PROHIBITED FROM CLEARING OUTSIDE OF DESIGNATED SILT FENCE LIMITS. ANY CLEARING **OUTSIDE OF DEFINED LIMITS MUST BE RESTORED AND REVEGETATED TO** MATCH ORIGINAL CONDITION.

> APPROXIMATE LIMITS OF **TEMPORARY SITE STABILIZATION**

SILT FENCING/ **EROSION & SEDIMENT** TRANSPORT CONTROL/ LIMITS OF CLEARING, TYP

N 2076 503.42 E 461 747.12 NEW WELL NO. 2

TEMPORARY **DISCHARGE PIPE**

APPROXIMATE LOCATION OF TEMPORARY SECURITY FENCING AND GATE. CONTRACTOR IS RESPONSIBLE FOR FINAL TEMPORARY FENCE LAYOUT WITHIN THE FUTURE **RIVERTOWN WTP SITE AS NEEDED FOR WELL** CONSTRUCTION, SECURITY, AND SAFETY OF THE PUBLIC.

STABILIZATION AREA FOR WELL CONSTRUCTION -



JEA PROPERTY LINE (TYP)

100' SJRWMD WELL SETBACK

WATER GENERATED DURING REVERSE-AIR **DRILLING WILL BE SETTLED AND FILTERED BEFORE BEING CONVEYED TO THE DESIGNATED DISCHARGE AREA. TURBIDITY** OF THE DISCHARGE WATER SHALL NOT EXCEED 29 NTU ABOVE BACKGROUND.

FIGURE 3 - WELL NO. 2 SITE PLAN JEA RIVERTOWN WTP WELL NOS. 1, 2, & BACKUP WELL (NO. 3)

PLOT DATE: 2020\02\07

JACOBS PLOT TIME: 3:46:45 PM



SILT FENCING/ **EROSION & SEDIMENT** TRANSPORT CONTROL/ LIMITS OF CLEARING, TYP

STABILIZATION AREA FOR WELL CONSTRUCTION

APPROXIMATE LOCATION OF TEMPORARY SECURITY FENCING AND GATE. CONTRACTOR IS RESPONSIBLE FOR FINAL TEMPORARY FENCE LAYOUT WITHIN THE FUTURE **RIVERTOWN WTP SITE AS NEEDED FOR WELL** CONSTRUCTION, SECURITY, AND SAFETY OF THE PUBLIC.

JEA RIVERTOWN WTP WELL NOS. 1, 2, & BACKUP WELL (NO. 3)



FIGURE 4 - BACKUP WELL (NO. 3) SITE PLAN

JACOBS PLOT TIME: 3:54:34 PM

Legend

Well Site 2 Limits of Clearing Soil Classification & Description

7: Arents, nearly level

Figure Number:	2
Source:	USDA NRCS, ESRI Basemap
Date:	June 2020
Scale:	1:600

Soil Types Map

JEA Rivertown Longleaf Pine Parkway St Johns, FL 32259











Delineated Wetlands Map

4

ESRI Basemap

June 2020

1:600

Figure Number:

Source:

Date:

Scale:

JEA Rivertown Longleaf Pine Parkway St Johns, FL 32259



Wetland 1

6250: Hydric Pine Flatwoods 6250: Hydric Pine Flatwoods

Wetland 2

Legend

- Existing Wetland Boundaries
 - Existing Wetlands
- /// Proposed Wetland Impact
- Well Site 3 Limits of Clearing

Note: FLUCs codes indicated in FDEP data (2013-2016) for the project area are not consistent with on-the-ground conditions found during field inspection.

Figure Number:	4
Source:	ESRI Basemap
Date:	June 2020
Scale:	1:1,000

Wetland Name	Wetland Impact Acreage
Wetland 1	0.14
Wetland 2	0.14
Total Wetland Im	pact Acreage: 0.28

Delineated Wetlands Map

JEA Rivertown Longleaf Pine Parkway St Johns, FL 32259



CONSTRUCTION DRAWINGS FOR

RIVERTOWN WATER TREATMENT PLANT WELL NO. 2 AND BACKUP WELL (NO. 3) VOLUME IV - WELLHEAD MECHANICAL AND FACILITIES

WELL NO. 3





4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020 PROJECT NO. 6103-229758

JEA PROJ NO.: 8003981



IMAGE OBTAINED FROM GOOGLE EARTH JANUARY 2020



WELL NO. 2



Building Communitysm







245 Riverside Ave, Suite 300 Jacksonville, FL 32202 Tel: (904) 636-5432 EB0000072 AAC001992 LC26000188 PROJECT NUMBER: D3270100

> **ISSUE FOR PERMIT JUNE 2020**

INDEX TO DRAWINGS

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<u>GENEF</u>	RAL	
1 2 3	G-1 G-2 G-3	COVER SHEET AND VICINITY & LOCATION MAP INDEX TO DRAWINGS CIVIL AND YARD PIPING LEGEND AND GENERAL NOTES
RIVERTOWN WTP WELLHEAD NO. 2		

B

CIVIL AND ELECTRICAL - WELLHEAD NO. 2 SITE PLAN 2-C-1 4

RIVERTOWN WTP BACKUP WELLHEAD NO. 3

CIVIL AND ELECTRICAL - BACKUP WELLHEAD NO. 3 SITE PLAN 3-C-1 5

<u>DETAILS</u>

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6	CD-1	CIVIL DETAILS
7	CD-2	CIVIL DETAILS

PLOT DATE: 6/24/2020

REMARKS





245 RIVERSIDE AVE, SUITE 300 JACKSONVILLE, FLORIDA 32202 EB0000072 AAC001992 LC26000188 JEA

RIVERTOWN WATER TREATMENT PLANT PROJECT

INDEX TO DRAWINGS

GENERAL

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1

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY RICHARD THOMAS MORRISON ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC OPIES. VI * NIJA * PRO DATE: 06/2020 Richard Thomas morrison PE NO. 67713 PROJECT NO. 6103-237938 JACOBS FILE NAME: STO-G-002_D3270100.dgn SHEET NO. G-2

3

ISSUE FOR PERMIT

SURVEY AND LOCATE DATA:

1. ELEVATIONS ARE BASED ON N.A.V.D. 88.

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2. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND ROADWAY AND SUBDIVISION AS BUILT PLANS.

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3. BENCHMARK DATA: SEE EXISTING SURVEY FOR APPLICABLE BENCHMARK LOCATIONS AND DATA.

PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.
- 2. THE FDEP, SJRWMD, JEA AND ST JOHNS COUNTY ARE TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR RESPECTIVE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL ALL ENVIRONMENTAL PERMITS HAVE BEEN ISSUED.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, LATEST EDITION, AND ST JOHNS COUNTY STANDARDS AND DETAILS MANUAL, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.
- 4. THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.
- 5. THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE ST JOHNS COUNTY, FDOT, AND FDEP REQUIREMENTS.
- 6. CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.
- 7. SJRWMD ERP PERMIT AND ARMY CORPS OF ENGINEERS 404 PERMIT/NATIONWIDE PERMIT (TBD) TO BE ACQUIRED PRIOR TO COMMENCEMENT OF WORK WITHIN WETLANDS.

REV. NO. DATE DRWN CHKD

DESIGNED B



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A. AT B. ATa C. AT D. ST E. ST F. FL G. JE H. JE/ I. JEA J. JEA K. JEA L. JE M. JE N. JE

RESTORATION NOTES:

THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.

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THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.

UTILITY CONTACTS:

A. AT&T ~ GENERAL NUMBER	904-519-2529
B. AT&T ~ ADAM DUGAN ~ NORTH DISTRICT	904-781-0741
C. AT&T ~ BILL LAKE ~ SOUTH DISTRICT	904-303-8754
D. ST JOHNS COUNTY ~ ENGINEERING	904-209-0110
E. ST JOHNS COUNTY ~ ROAD AND BRIDGE	904-209-0246
F. FLORIDA DEPT. OF TRANSPORTATION	904-360-5200
G. JEA ~ WATER COLLECTION & DISTRIBUTION	904-665-8484
H. JEA ~ SEWER COLLECTION & DISTRIBUTION ~ JOSH PARKER	904-665-6052
I. JEA ~ GENERAL INFORMATION	904-665-6000
J. JEA ~ PROJECT OUTREACH	904-665-7500
K. JEA ~ POWER OUTAGES	904-665-6000
L. JEA ~ SEWER PROBLEMS	904-665-4802
M. JEA ~ WATER PROBLEMS	904-665-4801
N. JEA ~ WATER & SEWER LOCATES	904-665-8410
O. ST JOHNS COUNTY UTILITY DEPT.	904-209-2700
P. SUNSHINE ONE CALL	811

EXISTING UTILITY PROTECTION:

IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE ST JOHNS COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.

2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.

3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

EXISTING RIGHT OF WAY LINE LIMITS OF CONSTRUCTION FENCE (HEIGHT & MAT'L ____O____O____ FLOW DIRECTION STORM DRAIN GRATE

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CIVIL LEGEND

WATER MAIN SIZE, TYPE INDICATED WATER MAIN (IN CASE 10

CENTER LINE

INDICATED)

DRAIN PIPE

CATCH BASIN

FIRE HYDRANT

END CAP

REDUCER

FIRE HYDRANT

VALVE (TYPE INDICATED)

PLUG (AT END OF LINE)

TRENCH) SIZE, TYPE INDICATED GRAVITY OR SANITARY SEWER SIZE, TYPE INDICATED

STORM DRAIN SEWER FORCE MAIN SIZE, TYPE INDICATED LINE VALVE CHECK VALVE

DOUBLE CHECK VALVE ASSEMBLY

MANHOLE - TYPE (IF INDICATED) E - ELECTRIC S - SANITARY D - STORM T - TELEPHONE • . . . CLEAN OUT SPRINKLER HEAD SPR TEMPORARY SAMPLING TAP POINT (BACTERIOLOGICAL SAMPLING POINT)

SPOT ELEVATION	⊗ 158.5
CONTOUR LINE	155
PROPERTY LINE	
WETLAND LIMITS	
TEST HOLE	\bullet

ABBREVIATIONS:

AC	ASBESTOS CEMENT
A.G.	ALLEY GRATE
β	BASE LINE
Б.М.	BENCH MARK
BC	BOTTOM OF CURVE
C.B.	CATCH BASIN
C.I.	CAST IRON
գ	CENTER LINE
Ċ.E.P.	CITY ELECTRIC POLE
CLDI	CEMENT-LINED DUCTILE IRON
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.M.P.	CORRUGATED METAL PIPE
C.M.P.A.	CORRUGATED METAL PIPE ARCH
CULV.	CULVERT
C&G	CURB & GUTTER
С	CUT
D.B.I.	DITCH BOTTOM INVERT
D.W. OR DR	DRIVEWAY
D.I.	DUCTILE IRON
E.O.P.	EDGE OF PAVEMENT
ELEV.	ELEVATION
ERCP	ELLIPTICAL REINFORCED
	CONC. PIPE
EXP. JT.	EXPANSION JOINT
F	FILL
F.H.	FIRE HYDRANT
ቺ	FLOW LINE
FM	FORCE MAIN
GALV./GLV	GALVANIZED
G	GASLINE
G.V.	GAS VALVE
HDPE	
H.W.	
н.с.	HIGH CUKB

CDM Smith 4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020



245 RIVERSIDE AVE, SUITE 300 JACKSONVILLE, FLORIDA 32202 EB0000072 AAC001992 LC26000188 JEA

RIVERTOWN WATER TREATMENT PLANT PROJECT

CIVIL AND YARD PIPING LEGEND AND GENERAL NTOES

GENERAL

J.VV.VV.	JACKSONVILLE WATER
	WORKS
LT.	LEFT
MB	MAIL BOX
M.H.	MANHOLE
N.T.S.	NOT TO SCALE
O.E.	OVERHEAD ELECTRIC
O.T.	OVERHEAD TELEPHONE
P.R.M.	PERMANENT REFERENCE
	MONUMENT
PVC	
r	BADIUS
B	BATE
R.C.P.	REINFORCED CONCRETE PIPE
RT	RIGHT
R/W	RIGHT OF WAY
RW	RAW WATER MAIN
R.D.	ROOF DRAIN
S/W	SIDE WALK
S.B.T.	SOUTHERN BELL TELEPHONE
SST	STAINLESS STEEL
STA	STATION
ТС	TOP OF CURVE
U.G.E.	UNDERGROUND ELECTRIC
U.G.T.	UNDERGROUND TELEPHONE
U.S.C. & G.S.	UNITED STATES COASTAL &
	GEODETIC SURVEY
V.C.	VITRIFIED CLAY
WM	WATER METER
W.V.	WATER VALVE
WLP	WOOD LIGHT POLE
WPP	WOOD POWER POLE
WTP	WOOD TELEPHONE POLE

	INTEROFOTION
IN L. INIZ	
.I W W	JACKSONVILLE WATER
0.00.00	WORKS
LT.	LEFT
MB	MAIL BOX
M.H.	MANHOLE
N.T.S.	NOT TO SCALE
O.E.	OVERHEAD ELECTRIC
O.T.	OVERHEAD TELEPHONE
P.R.M.	
DVO	
P.V.C.	
B	BATE
R.C.P.	REINFORCED CONCRETE PIPE
RT	RIGHT

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PROPOSED

L.O.C.

6' CHAIN LINK

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SAMPLE TAP NO.	

	CENTER LINE, BUILDING, ROAD, ETC.
10.	SILT FENCE

DEMOLITION

AND REPLACED

ASPHALT PAVEMENT OVERLAY

INDICATES DRIVEWAY/SIDEWALK TO BE

TRUCTURI	e, buildi Point - c	ING OR FA

JILDING OR FACILITY IT - COORDINATES	

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UTILITY SYMBOLS

WOOD POWER POLE

CONCRETE POWER POLE

TRAFFIC SIGNAL POLE

OVERHEAD ELECTRIC

GUY WIRE

IRON PIPE

ELECTRIC POLE OR S.B.T. POLE (CONC.)

D CPP \longrightarrow O I.P. - - - - - OHU- - - - -- EX- - - - -_ __ _ _ ____ UG-----M(TR)

س WPP

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00.00 00.00



 \overline{A} \B/ JIVV. CYPRESS 58/~25'42"E PRES 5.5 "CYPR ZZ 45 JEA PROPERTY BOUNDARY, TYP - WETLAND DELINEATION LINE, TYP 0 74 51 ⊗_{29.4} 29.4 - WETLAND - \otimes 25.1 ۲ 0 _____8.6 ⊗ 0 INT · • 4 5 \otimes 29.4 34.5' 8 5 ¹/ - HH-2 / – ANTENNA 406 [°] ED-1 The h · 29.3 29.1 29.49 □ - - - - - - - - DB- - - - - $\otimes \neg$ 29.65 29.45 - RVSS-RT3 - MTS-RT3 ন্ট LIGHT POLE -4' (8) GRAND DAG 9"MAPL #24.6 8' N 2 077 938.20 E 461 596.58 29.45 29.49 FOR ENGLARGED PLAN OF THIS AREA SEE DWG 3-M-1 - 12" RW 29.4 ℓ ⊗ • 15' ⊖ ⊗^{29;2} 29.49 29.65 29.50 Ť 0 N 2 077 903.59 E 461/587.06 N 2 077 902 16 E 461 601.63 2077881. 4 509 ED-4 461514 12"-V135 GATE VALVE ---29.40 29.3 PINE / 12"/MJ 45° BEND 29.64 N 2 077 882.03 RA! DINE. E 461_594.08 29.3 V ____ • ∕ ^{29,4} ∕ ⊗ 10.5 **** \ GRASSED TURNAROUND N87°28125MAPLE ZZ4. 5"RAV B DYKES DESIGNED B N PATTERSON R MORRISON SHEET CHK'D B` CROSS CHK'D E R MORRISON PPROVED REV. NO. DATE DRWN CHKD REMARKS JUNE 2020 DATE: PLOT DATE: 6/24/2020 PLOT TIME: 10:56:40 AM



Jacksonville, FL 32256 EB0000072 AAC001992 LC26000188 Tel: (904) 731-7109 FL COA No. EB-0000020



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\H/ SHEET KEYNOTES 1. X 2. LOCATION OF PADMOUNT SERVICE TRANSFORMER IS APPROXIMATE. COORDINATE ACTUAL LOCATION WITH THE CIVIL DESIGN AND SUPPLYING ELECTRIC UTILITY (FP&L, MICHELLE USRY 386.329.5158 OR MICHELLE.USRY@FPL.COM). CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AS REQUIRED BY THE UTILITY INCLUSIVE OF, BUT NOT LIMITED TO TRANSFORMER PAD, PRIMARY CONDUITS, SECONDARY CONDUITS, METERING FRAME, AND METERING ENCLOSURE. DESIGN IS FOR 150KVA PADMOUNT TRANSFORMER, BUT PAD SHALL ACCOMMODATE UP TO A 300KVA UNIT. BOTH THE PADMOUNT TRANSFORMER AND THE METERING FRAME SHALL FACE THE DRIVEWAY TURNAROUND UNLESS DIRECTED DIFFERENTLY BY THE SUPPLYING ELECTRIC UTILITY. FURNISH/INSTALL 8-INCH CONCRETE PROTECTIVE POSTS PER DETAIL. COORDINATE POST LOCATIONS WITH SUPPLYING ELECTRIC UTILITY. TYPICAL OF TWO LOCATIONS. POSTS SHALL PROVIDE PROTECTION FOR THE PADMOUNT TRANSFORMER WITHOUT BLOCKING OPENING OF THE CABLE COMPARTMENT DOORS A FULL 120-DEGS CONTRACTOR TO CONTACT FP&L UTILITY ENGINEER (MICHELLE USRY AT 386.329.5158 OR MICHELLE.USRY@FPL.COM) PRIOR TO STARTING ANY WORK TO VERIFY EXISTING SERVICE **REQUIREMENTS. SERVICE DELIVERY TO BE** 480/277VAC, 3P/4W, SOLIDLY-GROUNDED WYE, 150KVA. HANDHOLE HH-1 AND HH-2 FURNISHED AND INSTALLED BY CONTRACTOR. HANDHOLES SHALL BE PRECAST CONCRETE, H-20 RATED, OPEN-BOTTOM AS MANUFACTURED BY OLD CASTLE/CHRISTY OR APPROVED EQUAL. REFER TO TABLE 4A OF DETAIL 406 FOR SIZING INFO. FP&L REVENUE METER TO BE LOCATED ON SUPPORT FRAME AS SHOWN IN DETAIL 'A', THIS DRAWING. CONTRACTOR TO FURNISH AND INSTALL SUPPORT FRAME PER DETAIL 407 ON DWG. ED-2 UTILIZING TWO (2) POSTS WITH A 36-INCH CENTER-TO-CENTER SEPARATION. FURNISH AND INSTALL METERING CAN PER FP&L ELECTRIC SERVICE STANDARDS DATED MARCH, 2017. ROUTE 2-3"C BETWEEN FP&L SERVICE TRANSFORMER AND THE METERING FRAME, AND HH-1 AND THE METERING FRAME. ONE CONDUIT IN EACH DIRECTION SHALL BE A SPARE. STUB THE SPARE CONDUIT FROM EACH HANDHOLE (TOTAL OF 2) BENEATH THE METER BOX 6-INCHES AFG AND CAP. APPLY A S/S TAG TO EACH FOR IDENTIFICATION AS SPARE CONDUIT. LOCATION OF WELLHEAD ILLUMINATION. ARROW 8 INDICATES AIMING DIRECTION OF POLE TOP LUMINAIRE.



CIVIL/ELECTRICAL

BACKUP WELLHEAD NO. 3 SITE PLAN







JEA



\E/





- 1. CONTRACTION JOINT SHALL BE MADE, CLEANED WITH COMPRESSED AIR, INSTALL BACKER-ROD AND AND FILL SAWCUT WITH SIKAFLEX 1A.
- 2. CONCRETE JOINT SPACING: AS SHOWN OR MAXIMUM 8'x8'.
- 3. INSTALL 1/2" PREMOLDED JOINT FILLER FULL DEPTH WHERE CONCRETE PAVEMENT ABUTS CONCRETE CURB, BUILDING OR ANY RIGID STRUCTURE.
- 4. PROVIDE A 12" THICK BY 18" WIDE THICKENED EDGE AROUND PERIMETER OF SLAB. TRANSITION THICKENED EDGE TO NORMAL 8" THICKNESS IN 18".



\H/

V PRO DATE: 06/2020 RICHARD THOMAS MORRISON PE NO. 67713 PROJECT NO. 6103-237938 JACOBS FILE NAME: ST9000-CD-001_D3270100.dgn

SHEET NO.

CD-1

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STANDARD DETAILS

CIVIL STANDARD DETAILS

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RIVERTOWN-WELL NO. 1

RIVERTOWN-WTP

PREPARED BY: **CDM Smith**

4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020 PROJECT NO. 6103-229758

CONSTRUCTION DRAWINGS FOR

RIVERTOWN WATER TREATMENT PLANT

ENVIRONMENTAL RESOURCE PERMIT SUBMITTAL ACCESS DRIVEWAY BACKUP WELL NO. 3 JEA PROJ NO.: 8003981



VICINITY MAP NOT TO SCALE



-RIVERTOWN BACKUP

-ACCESS DRIVEWAY TO **BACKUP WELL SITE No. 3**

INDEX OF SHEETS

C-1 C-3	COVER SHEET BACKUP WELL NO. 3 ACCESS DRIVEWAY
C-4	RAW WATER MAIN BACKUP WELL NO. 3
	PROPOSED PLAN AND PROFILE
C-6	BACKUP WELL NO. 3 ACCESS DRIVEWAY DETAILS
C-7	BACKUP WELL NO. 3 ACCESS DRIVEWAY DETAILS
S-1	RETAINING WALL NOTES SECTION AND DETAILS



245 Riverside Ave, Suite 300 Jacksonville, FL 32202 Tel: (904) 636-5432 EB0000072 AAC001992 LC26000188

> **ISSUED FOR PERMIT** JUNE 2020





6. CONTRACTOR SHALL FURNISH, INSTALL, AND OPERATE GROUNDWATER CONTROL AND LOWERING MEASURES TO LOWER THE GROUNDWATER A MINIMUM OF 2 FEET BELOW THE BOTTOM OF EXCAVATION SUCH THAT COMPACTED REQUIREMENTS ARE ACHIEVED AS SPECIFIED. 7. BRING SUBGRADE TO PROPER GRADE AND CROSS-SECTION IN A UNIFORMLY COMPACTED SURFACE. 8. AFTER THE EXCAVATION GRADE IS OBTAINED AND IN THE PRESENCE OF THE ENGINEER, PROOF-ROLL THE SUBGRADE WITH A LOADED HAUL TRUCK (OR OTHER HEAVY EQUIPMENT ACCEPTABLE TO THE ENGINEER). TO IDENTIFY AREAS OF WEAK OR SOFT SUBGRADE. SUBGRADE SHALL BE FIRM AND UNYIELDING PRIOR TO COMMENCING PLACEMENT OF SUBSEQUENT FILL LIFTS. 9. COMPACT THE UPPER 6 INCHES OF THE ENTIRE SUBGRADE UNDER THE EMBANKMENT TO 95 PERCENT RELATIVE COMPACTION OTHERWISE HEREIN.

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- AS DETERMINED BY ASTM D1557. FILL AND BACKFILL: SUBGRADE PREPARATION 10. PERFORM FILL AND BACKFILL IN GENERAL ACCORDANCE WITH THE
- LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS SECTION 120 - EXCAVATION AND EMBANKMENT - UNLESS SPECIFIED
- 11. PRODUCTS: EMBANKMENT FILL SHALL BE SAND, WITH NO MORE THAN 5% NONPLASTIC FINES, CLASSIFIED AS SP IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487).
- 12. PLACEMENT: PLACE AND COMPACT EMBANKMENT FILL ACROSS FULL WIDTH OF EMBANKMENT. FILL MATERIAL SHALL BE PLACED IN CONTINUOUS HORIZONTAL LIFTS EXTENDING THE FULL WIDTH OF THE CROSS SECTION WHERE PRACTICABLE.
- 13. LIFT THICKNESS: NOT TO EXCEED 12-INCHES LOOSE LIFT
- 14. COMPACTION: COMPACT EACH LIFT TO A MINIMUM OF 95 PERCENT RELATIVE COMPACTION AS DETERMINED IN ACCORDANCE WITH
- A. MODIFIED PROCTOR MAXIMUM DENSITY (ASTM D1557): ONE B. SOIL CLASSIFICATION (ASTM D6913): ONE PER MODIFIED PROCTOR MAXIMUM DENSITY. C. DENSITY TESTING (ASTM D6928): TEST THE FULL THICKNESS OF THE LIFT A MINIMUM OF 2 TEST PER LIFT OR EVERY 500 CUBIC YARDS, WHICHEVER IS GREATER.
- 16. SUBMIT TEST RESULTS AS SOON AS AVAILABLE TO OWNER OR
- 17. SHAPE, TRIM AND FINISHED SLOPES TO CONFORM WITH LINES, GRADES, AND CROSS-SECTIONS SHOWN, WITH PROPER ALLOWANCE FOR TOPSOIL OR SLOPE PROTECTION, WHERE SHOWN.
- 18. FINISH SLOPES WITH A MINIMUM OF 4 INCHES OF TOP SOIL IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 162
- 19. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING. THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES ERRORS, OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.
- 20. SOD AND STAKE SIDE SLOPES OF NEWLY CONSTRUCTED SITE AREA AND ACCESS ROAD. SOD SHALL EXTENDED FROM THE TOE OF THE SLOPE TO 3' BEYOND THE INSIDE OF TOP OF SLOPE ALONG THE PERIMETER OF THE NEWLY CONSTRUCTED RAISED SITE. RESTORE ANY DISTURBED AREAS OF EXISTING RIGHT OF WAY. SEE CIVIL SECTIONS ON DRAWING C-6 FOR GENERAL GUIDANCE ON SODDING LIMITS.

	W W I
PE NO. 433	93
ROJECT NO.	6103–23793
ILE NAME:	C008STPL.DW

DAVID J. PRAH

BACKUP WELL NO. 3 ACCESS DRIVEWAY

SHEET NO.

C-3

	$\overline{\mathbb{A}}$	B		1	∇
			NE 7"PINE		
			_		
<u>GENERAL N</u> 1 THE CO	OTES INTRACTOR SHALL STRICTLY FOLL	W DESIGN STANDARDS AS	÷ ×25.7		
GIVEN JANUAF	N "WATER AND WASTEWATER STAN Y 1, 2020 FOR ALL UTILITY INST	DARDS MANUAL" BY JEA,	VE * 9.5"PIN	E	
STANDA AND AL	RD SPECIFICATIONS AND DETAILS, L APPLICABLE STATE AND LOCAL	EXCEPT AS OTHERWISE NOTED, REGULATIONS.	"PINF		
2. LOCATIO STRUCT	NS, ELEVATIONS, AND DIMENSION URES, AND OTHER FEATURES ARE	S OF EXISTING UTILITIES, SHOWN ACCORDING TO THE	PINE		
BEST II PLANS,	IFORMATION AVAILABLE AT THE TIL BUT DO NOT PURPORT TO BE A	ME OF PREPARATION OF THESE BSOLUTELY CORRECT. BY			WETLAI
SUBMIT RESPON	ING A BID, THE CONTRACTOR SH ISIBLE FOR ANY AND ALL DAMAGI	ALL AGREE TO BE FULLY ES WHICH MIGHT BE			
OCCASI HIS WC	ONED BY HIS FAILURE TO EXACTL RK.	Y LOCATE FEATURES AFFECTING			
3. LOCATIO AND SO	N OF EXISTING UTILITIES OBTAINE	D BY AVAILABLE AS-BUILTS ON PLANS.	× <i>26.1</i> FOR	CONTINUTION OF 12	
4. PRIOR PHYSIC	TO BEGINNING CONSTRUCTION, TH ALLY VERIFY LOCATOIN OF ALL UT	E CONTRACTOR SHALL ILITIES, ABOVE AND BELOW		N SEE JACOBS WELL 3 SITE PLAN	ENTRANCE
GROUN PORTIO) AND NOTIFY JEA 72 HOURS PR N OF THE SITE.	IOR TO DIGGING IN ANY			
5. THE CO DURING	NTRACTOR SHALL NOTE ALL EXIS EXCAVATION AND INCLUDE ON A	TING UTILITIES ENCOUNTERED S-BUILT DRAWINGS.	9"FINE	12" DI PVC	0 5"DINE_
6. THE CO EQUAL	INTRACTOR SHALL, BY REPAIR OR OR BETTER CONDITION ALL PAVE	REPLACEMENT, RETURN TO MENT, SIDEWALK, LAWNS,		MJt PLUG	9.5 PINE 4.5"PINE
7. ALL BR	S AND OTHER TIEMS DAMAGED BY USH, STRIPPING OR UNSUITABLE	MATERIAL SHALL BE DISPOSED	VE	×26.8 8.5"PINE	5.5 "PINE
OF OFF THE W	STE AT THE CONTRACTOR'S EXE STE MATERIAL SHALL BE REMOVE	D FROM THE SITE WITHOUT	- 6.5" APRE 11/02	$\frac{\mathcal{P}}{\mathcal{P}} = \frac{1}{2} \frac{1}$	
8. MEASUF	SION OF THE OWNER. (ES SHALL BE TAKEN BY THE CO	NTRACTOR TO ENSURE THAT			
ADEQUA	IE ERUSION AND SEDIMENTATION IES.	CONTROL ARE MAINTAINED AT		AW —— RAW	RAW
9. NO REI EXCESS	MATERIAL OR MATERIAL NOT SU	TABLE FOR USE AS BACKFILL	26 JBE 1	25.2 . 6"TW.MAPL	E•
	CTOR'S EXPENSE, AND WHERE N	ECESSARY, SUITABLE FILL AND		6"OAK 5.9×	
SHALL	BE ALLOWED.	ADDITIONAL COMPENSATION		×25.1	- 22
				×R#F4W6-1	4 "MAPLE ·
INSTALLATIO	<u>N NOTES</u> INTRACTOR SHALL INSTALL THE P	ROPOSED RAW WATER MAIN IN		\	
ACCORI WASTEV	ANCE WITH THE FOLLOWING SECT	TONS OF THE "WATER AND			
	SECTION II 406: SITE PREPARATION	N, CLEANUP AND RESTORATION	W5—1		
c. 5	SECTION III 350: POTABLE WATER	PIPING		N:2077846.7320	
e. 5	SECTION VI SOT. AS BOILT DIAW SECTION VIII: WATER & RECLAIMED	CONSTRUCTION DETAILS		E:461698.1130	
2. ALL PI	'E LENGTHS SHOWN ON PLAN AN	D PROFILES ARE ALONG			
3. THE CO	INTRACTOR SHALL NOTIFY APPLICA	ABLE UTILITY CONTACT			
FACILITI 4 WHEN	ES IN THEIR RESPECTIVE AREAS.	POLE AND THE TRENCH IS			
LESS T RESPON	HAN THE TRENCH DEPTH, THE CO	NTRACTOR SHALL BE			
SECURE 5 PRIOR	POWER POLES.	OR GRADING THE			
CONTRA	CTOR SHALL OBTAIN ALL GEOTEC	HNICAL AND TOPOGRAPHIC			
UTILITIE	S. SHOULD THE CONTRACTOR DIS	COVER ANY INACCURACIES,			
NOTIFY CAN BE	THE DESIGN ENGINEER IN ORDER ANTICIPATED AND ORDERED.	THAT PROPER ADJUSTMENTS			
6. IT SHAI LOCATE	L BE THE SOLE RESPONSIBILITY AND AVOID ALL UTILITIES OTHER	OF THE CONTRACTOR TO STRUCTURES AND			
OBSTRI DAMAGE	CTIONS BOTH ABOVE AND BELOW RESULTING FROM THE CONTRAC	GROUND SURFACE. ALL FOR'S FAILURE TO COMPLY			
WITH T EXPENS	IS REQUIREMENT SHALL BE REP	AIRED AT THE CONTRACTOR'S			
7. IF SOL SHALL	'ENT CONTAMINATION IS FOUND IN BE STOPPED AND THE PROPER #	I THE PIPE TRENCH, WORK UTHORITIES NOTIFIED. WITH			
APPRO AND SC	'AL OF THE PERMITTING AGENCY, DEVENT RESISTANT GASKET MATER	DUCTILE IRON PIPE, FITTINGS AL SHALL BE USED IN THE	35 -		
CONTAN 100 FE	INATED AREA. THE DUCTILE IRON ET BEYOND ANY SOLVENT NOTED	PIPE SHALL EXTEND AT LEAST			
			30		
			25	_ +	
				12" DI MJt PLUG	
			20		
<u> </u>			10+50	1	1+00
				DESIGNED BY: DRAWN BY:	ABB SLD
$\left \right $				SHEET CHK'D BY:	
				APPROVED BY:	D PRAH
DATE DRWN	СНКО	REMARKS		DATE:	JUNE 2020



EZ000SS, 13419 Rivertown 12/2020 12:26:17 PM m:PW_PL1\6103\237938\C CWP SE -pw. by: by:

	DATE: DAVID J. PRAH PE NO. 43393	
BACKUP WELL NO. 3 ACCESS DRIVEWAY DETAIL	PROJECT NO. 6103-237938 FILE NAME: COO8STPL.DWG SHEET NO. C-6	
ISSUED FOR PERMIT - JUNE 2020		

Ω , CEZ000SS, 13419 Rivertown 6/11/2020 3:39:32 PM y.com:PW_PL1\6103\237938\0 SE pw., hS__ by:

ISSUED FOR PERMIT - JUNE 2020

				SHEET PILE CONCRETE CAP		PIPE PI
				DETAIL A		DETAIL
						1/2" = 1'-0
					DESIGNED BY: H. MORATAYA DRAWN BY: P. SCHIAVO SHEET CHK'D BY: K. FRANCOFORTE CROSS CHK'D BY: J. BRIAND	CDM Smith
REV. NO.	DATE	DRWN	СНКД	REMARKS	APPROVED BY: H. MORATAYA DATE: MAY 2020	4651 Salisbury Road, Suite 420 Jacksonville, FL 32256 Tel: (904) 731-7109 FL COA No. EB-0000020

12"

- 4. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

- 3. PROVIDE $\frac{3}{4}$ " CHAMFERS ON ALL EXPOSED EDGES UNLESS NOTED OTHERWISE.

2. CONCRETE SHALL BE CLASS II AND OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 PSI.

4. TEMPORARY EXCAVATION SLOPES SHALL NOT EXCEED 1.0 VERTICAL TO 2.0 HORIZONTAL.

ASSOCIATED COST SHALL BE INCIDENTAL TO THE COST OF STEEL SHEET PILING (PERMANENT).

ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.

TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

5. FOR EXISTING AND PROPOSED UTILITY LOCATIONS, SEE CIVIL AND ROADWAY PLANS.

CONCRETE AND REINFORCING NOTES:

1. CONCRETE SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 346.

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CONSTRUCTION (2020 EDITION) AND SUPPLEMENTS THERETO.

B. FDOT STRUCTURES MANUAL DATED 2020.

ENGINEER'S RECOMMENDATIONS.

6. STEEL SHEET PILES SHALL BE ASTM A572.

SEVENTH EDITION AND IMPLEMENTED MODIFICATIONS THERETO.

1. SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

A. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS,

C. SHEET PILE WALLS HAVE BEEN DESIGNED BASED ON THE RETAINED HEIGHT AS SHOWN AND WHEN APPLICABLE, WITH A

7. THE CONTRACTOR SHALL HAVE SUITABLE EQUIPMENT AND SHALL TAKE APPROPRIATE MEASURES TO ACHIEVE THE REQUIRED TIP

ELEVATIONS. THESE MAY INCLUDE PRE-PUNCHING, SPUDDING, PREFORMED PILE HOLES, OR OTHER METHODS, AND ANY

8. THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATION AND

9. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE CIVIL AND ROADWAY DRAWINGS AND SPECIFICATIONS.

10. THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSION SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE STRUCTURE. SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE

11. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY

12. STANDARD DETAILS APPLY TO ALL SIMILAR SITUATIONS ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

240 PSF LIVE LOAD SURCHARGE AT THE UPPER GROUND SURFACE WHEN TRAFFIC IS ADJACENT TO THE WALL.

3. SHOP DRAWINGS FOR STEEL SHEET PILE WALLS SHALL BE SUBMITTED IN ACCORDANCE WITH FDOT SPECIFICATION 5.

D. SOIL DATA IS BASED UPON THE GEOTECHNICAL REPORT FROM CSI GEO (DATED JUNE 2, 2020) AND GEOTECHNICAL

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GENERAL NOTES:

2. DESIGN:

OTHERS.

JOINT MATERIAL (TYP)

PIPE OUTER DIAMETER

UP TO 18" —

RIVERTOWN WATER TREATMENT PLANT PROJECT

JEA

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NOTE: REFER TO CIVIL DRAWING C-3 FOR WALL LOCATIONS AND LENGTHS.

SKS11 SHEET PILE (FY=50 KSI) —

EXISTING GRADE

CONCRETE

PILE CAP -

. – TOP OF CAP EL REFER TO CIVIL Î II

\E/

- PROVIDE ALUMINUM PIPE GUIDERAIL AT ALL LOCATIONS WHERE THE RETAINED SOIL HEIGHT IS GREATER THAN OR EQUAL TO 2'-6"

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SECTION 1/2" = 1'-0'

	DATE: HECTOR G. MORATAYA PE NO. 76177	
	PROJECT NO. 6103-237938 FILE NAME: SOO1STNT.DWG	
RETAINING WALL	SHEET NO.	
NOTES, SECTION AND DETAILS	S-1	
ISSUED FOR PERMIT	- JUNE 2020	

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STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE U.S. Fish and Wildlife Service August 12, 2013

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: jaxregs@fws.gov; South Florida Field Office: verobeach@fws.gov; Panama City Field Office: panamacity@fws.gov). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or "approval" from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or "approval" from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via email, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

POSTER INFORMATION

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11" x 17" or larger paper and laminated, is attached):

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

PROTECTION UNDER FEDERAL AND STATE LAW: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of \$25,000 for civil violations and up to \$50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

IF YOU SEE A LIVE EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A <u>DEAD</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida Field Office – (904) 731-3336 Panama City Field Office – (850) 769-0552 South Florida Field Office – (772) 562-3909

PRE-CONSTRUCTION ACTIVITIES

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.

2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.

3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

DURING CONSTRUCTION ACTIVITIES

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).

2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.

3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.