

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS**

AGENDA ITEM SUMMARY

Meeting Date: April 6, 2021

Consent [X]

Regular []

Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: a Consent to Easement Agreement (Easement) between United States of America, Department of the Army (USADA) and Palm Beach County (County) on property located across the Herbert Hoover Dike (HHD) in Pahokee.

Summary: The proposed Easement (Consent No. DACW17-9-20-0073) to use the United States Army Corps of Engineers (USACE) right-of-way is required over the HHD where Palm Beach County Water Utilities Department (PBCWUD) is proposing to install water and sewer improvements. The Easement will provide PBCWUD staff access to the HHD to construct, use, maintain, control, operate and repair these improvements in Pahokee. USACE has requested to replace the existing Easement (Consent No. DACW17-9-13-0100) to cover all work necessary to make the connections of the new water and sewer mains that require approval by the Board of County Commissioners. The terms of the Easement will be indefinite unless there are any changes with the water or sewer mains. PBCWUD recommends approval of the Easement. (PBCWUD Project No.18-056) District 6 (MJ)

Background and Justification: On April 1, 2014, the County entered into an Easement with the USACE (R2014-0458) to relocate or grout in place the existing water main along the HHD. In order to maintain the same level of service in Pahokee, a new 8-inch water main and a 4-inch force main will be installed crossing the HHD to provide service to the waterside area of the HHD.

Attachments:

1. Two (2) Original Consent to Easement Agreements
2. Location Map

Recommended By:

Jim Stiles
Department Director

2-19-21

Date

Approved By:

J. M. Deputie
Assistant County Administrator

3/10/21

Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	0	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
NET FISCAL IMPACT	0	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

Budget Account No.: Fund Dept Unit Object

Is Item Included in Current Budget? Yes No

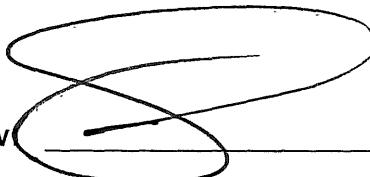
Does this item include the use of federal funds? Yes No

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

No Fiscal Impact.

C. Department Fiscal Review



III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

Quesada 3/3/21
PMB OFMB 3/3/21

John J. Farland 3/5/21
Contract Development and Control
3-4-21 PW

B. Legal Sufficiency:

Cooper 3/7/21
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

**DEPARTMENT OF THE ARMY
CONSENT TO EASEMENT
TO USE CORPS OF ENGINEERS RIGHT-OF-WAY**

Consent No. DACW17-9-20-0073
Project: Intracoastal Waterway-
Tributary Channel, Okeechobee Waterway
Palm Beach County, Florida
Tract No. 731

THIS CONSENT TO EASEMENT AGREEMENT, made by and between the **UNITED STATES OF AMERICA, DEPARTMENT OF THE ARMY**, hereinafter referred to as the "Government", acting by and through the Real Estate Contracting Officer, Chief, Real Estate Division, hereinafter referred to as "said officer," and **PALM BEACH COUNTY**, hereinafter referred to as the "Grantee":

WHEREAS, the Government has acquired right-of-way easements over the above-numbered tract of land, which easements, by the terms, reserve to the Government, in perpetuity, the right to use said easements for the construction, improvement, and maintenance of the Herbert Hoover Dike which is part of the authorized Intracoastal Waterway-Tributary Channel, Okeechobee Waterway, Palm Beach County, Florida; and

WHEREAS, the Grantee has requested to construct, use, maintain, control, operate, and repair the Pahokee water and sewer main improvements in, on, across, over, and under a portion of the Herbert Hoover Dike lands identified as Tract No. 731, Sections 13 and 18, Township 42 South, Ranges 36 and 37 East, Palm Beach County, Florida. The general location and project plans of which are shown on Exhibits "A" and "B", attached hereto and made a part hereof; and

WHEREAS, the Government has approved the project modifications authorizing the Grantee's construction of the specified improvements, including the requirement that the Grantee obtain a Consent to Easement Agreement from the Government.

NOW THEREFORE, this Consent to Easement is granted and accepted under the following conditions:

1. That construction shall be in accordance with the drawings attached hereto and made a part hereof as Exhibit "B".
2. That it is understood that this consent is effective only insofar as the property rights of the Government in the land to be occupied are concerned, and that it does not relieve the Grantee from the necessity of obtaining grants from the owners of the fee and/or other interests, therein, nor does it obviate the requirement that the Grantee obtain State or local assent required by law for the activity authorized herein.

3. That any proposed improvements or use authorized herein shall not be commenced until appropriate rights shall have been obtained by the Grantee from the record owners and encumbrancers of the fee title to the lands involved, or until the Grantee has obtained all Federal, State, or local permits required by law.
4. That the proposed improvements or use authorized herein shall be consistent with the terms and conditions of this consent; and that any improvements or use not specifically identified and authorized shall constitute a violation of the terms and conditions of this consent which may result in a revocation of this consent and in the institution of such legal proceedings as the Government may consider appropriate, whether or not this consent have been revoked or modified.
5. That the exercise of the privileges hereby consented to shall be without cost or expense to the Government and under the supervision of and subject to the approval of the said officer having immediate jurisdiction over the property and subject to such regulations as he may from time to time prescribe, including, but not limited to, the specific conditions, requirements, and specifications set forth in paragraph 1.
6. That the Grantee shall supervise and maintain the said improvements and cause it to be inspected at reasonable intervals, and shall immediately repair any damage found therein as a result of such inspection, or when requested by said officer to repair any defects. Upon completion of the installation of said improvements or the making of any repairs thereto, the premises shall be restored immediately by the Grantee, at the Grantee's own expense, to the same condition as that in which they existed prior to the commencement of such work, to the satisfaction of said officer.
7. That any property of the Government damaged or destroyed by the Grantee incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the Grantee to the satisfaction of the said officer, or in lieu of such repair or replacement, the Grantee shall, if so required by said officer and at his option, pay to the Government an amount sufficient to compensate for the loss sustained by the Government by reason of damage to or destruction of Government property.
8. That the Government shall not be responsible for damages to the property or injuries to persons which may arise from or be incident to the exercise of the privileges herein granted, or for damages to the property of the Grantee, or for damages to the property or injuries to the person of the Grantee, or the persons of Grantee's officers, agents, servants, or employees, or others who may be on said premises at the invitation of the Grantee or the invitation of one of them, arising from Governmental activities on or in the vicinity of the said premises, and the Grantee shall hold the Government harmless from any and all claims, to the extent allowed by law.

9. That the Government shall in no case be liable for any damage, either hidden or known, to any improvements herein authorized which may be caused by any action of the Government, under the rights obtained in its easements, or that may result from the future operations undertaken by the Government, and no claim or right to compensation shall accrue from such damage, and if further operations of the Government require the alteration or removal of any improvements herein authorized, the Grantee shall, upon due notice, from said officer, alter or remove said improvements without expense to the Government and subject to the supervision and approval of the said officer and no claim for damages shall be made against the Government on account of such alterations or removal.

10. That construction and/or operation, maintenance, and use of any improvements incident to the exercise of the privileges herein granted shall be in such a manner as not to conflict with the rights of the Government, nor to interfere with the operations by the Government under such rights nor to endanger lives and safety of the public.

11. That this consent may be terminated by the Government or said officer upon reasonable notice to the Grantee if the Government or said officer shall determine that any improvements or use to which consent is herein granted interferes with the use of said land or any part thereof by the Government, and this consent may be annulled and forfeited by the declaration of the Government or said officer for failure to comply with any or all of the provisions and conditions of this consent, or for nonuse for a period of two (2) years, or for abandonment.

12. That upon relinquishment, termination, revocation, forfeiture, or annulment of this consent, the Grantee shall vacate the premises, remove all property of the Grantee therefrom, and restore the premises to a condition satisfactory to the said officer. If the Grantee shall fail or neglect to remove the said property and so restore the premises, then at the option of the Government or said officer, the said property shall either become the property of the Government without compensation therefor, or the Government or said officer, may cause it to be removed, and the premises to be so restored at the expense of the Grantee, and no claim for damages against the Government, or its officer or agents, shall be created by or made on account of such removal and restoration.

13. That the Grantee within the limits of its respective legal powers shall comply with all Federal, interstate, State, and/or local governmental regulations, conditions, or instructions for the protection of the environment and all other matters as they relate to real property interests granted herein.

14. That the Grantee shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archeological, architectural, or other cultural artifacts, relics, vestiges, remains, or objects of antiquity. In the event such items are discovered on the premises, the Grantee shall immediately notify the District Engineer, Jacksonville

District, Post Office Box 4970, Jacksonville, Florida 32232-0019, and the site and the material shall be protected by the Grantee from further disturbance until a professional examination of them can be made or until a clearance to proceed is authorized by the District Engineer.

15. That prior to construction, the Grantee must coordinate work with the District's Construction and Operations personnel and its contractor. The Grantee must ensure that a District representative be present and on-site to observe the installation and verify the connections before placement of backfill material. That the Grantee is required to provide "As-Builts" once the improvements have been made to include all pertinent features, elevations, and locations including, but not limited to pipe size, pipe type, elevation and cover information, valve location, mechanical constraints, bedding material, excavation limits, trench widths, etc. That no additional permanent facilities shall be constructed waterward of the Government's right-of-way and any facilities currently within the right-of-way must be removed by the Grantee, at the Grantee's expense, if future needs of the Government so require. However, the Grantee may be required to make future modifications, as needed, to the utility crossing to ensure the safety of the embankment dam.

16. That this consent may not be transferred to a third party without the prior written notice to the Chief, Real Estate Division, U.S. Army Corps of Engineers, Jacksonville District, Post Office Box 4970, Jacksonville, Florida 32232-0019, and by the transferee's written agreement to comply with and be bound by all the terms and conditions of this consent. In addition, if the Grantee transfers the improvements authorized herein by conveyance of realty, the deed shall reference this consent and the terms and conditions herein and the consent shall be recorded along with the deed in the Registrar of Deeds or with other appropriate official.

This consent is not subject to Title 10, United States Code, Section 2662.

IN WITNESS WHEREOF, I have hereunto set my hand, by authority of the Secretary of the Army, this _____ day of _____ 20____.

UNITED STATES OF AMERICA

BY: _____

TIMOTHY H. MCQUILLEN
Real Estate Contracting Officer
Chief, Real Estate Division

AGREED TO AND ACCEPTED

PALM BEACH COUNTY, FLORIDA
BY ITS BOARD OF COUNTY COMMISSIONERS

ATTEST:

**Joseph Abruzzo,
Clerk of the Circuit Court
& Comptroller,
Palm Beach County**

By: _____
Deputy Clerk

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: _____
Dave Kerner, Mayor

APPROVED AS TO TERMS AND
CONDITIONS

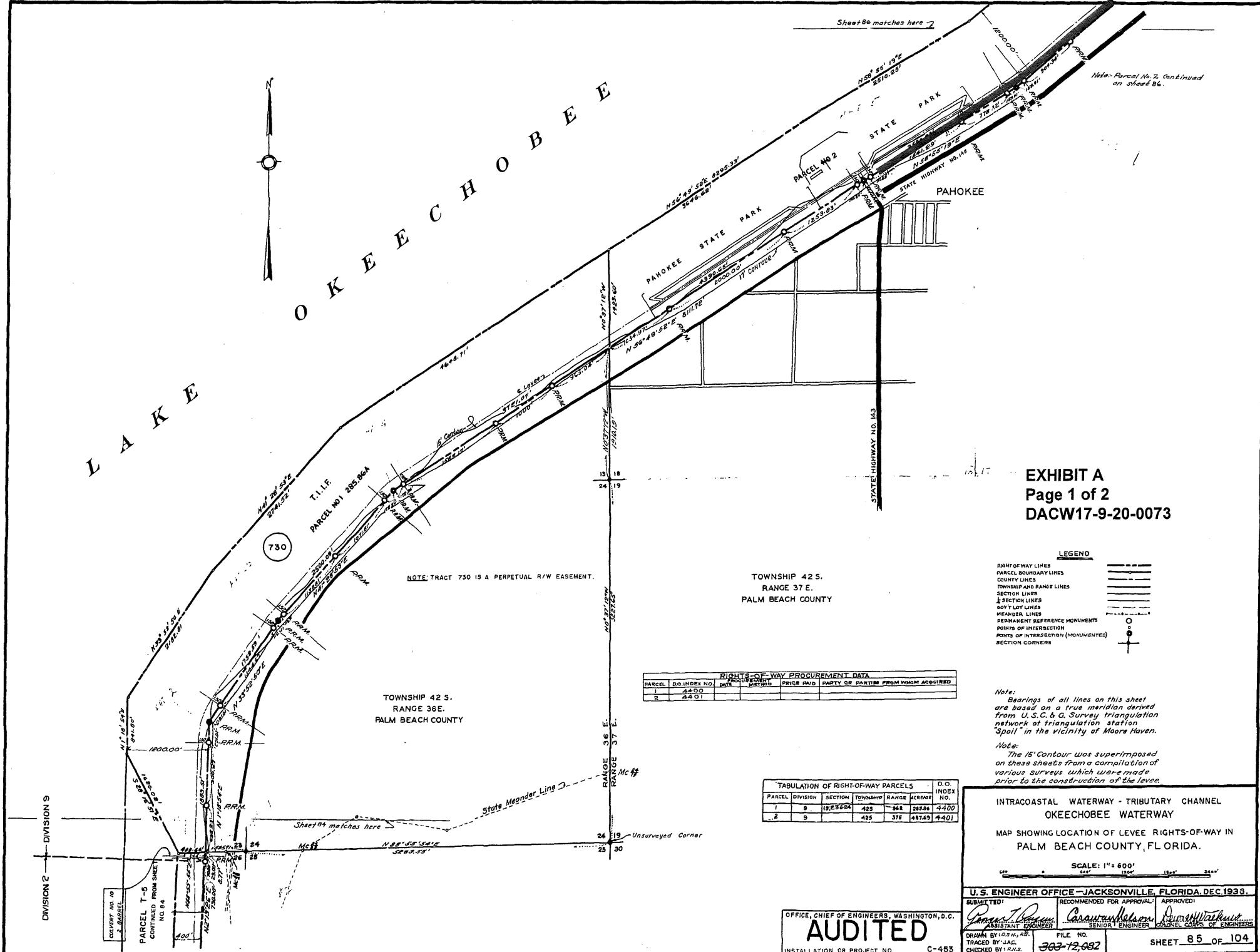
By: _____
County Attorney

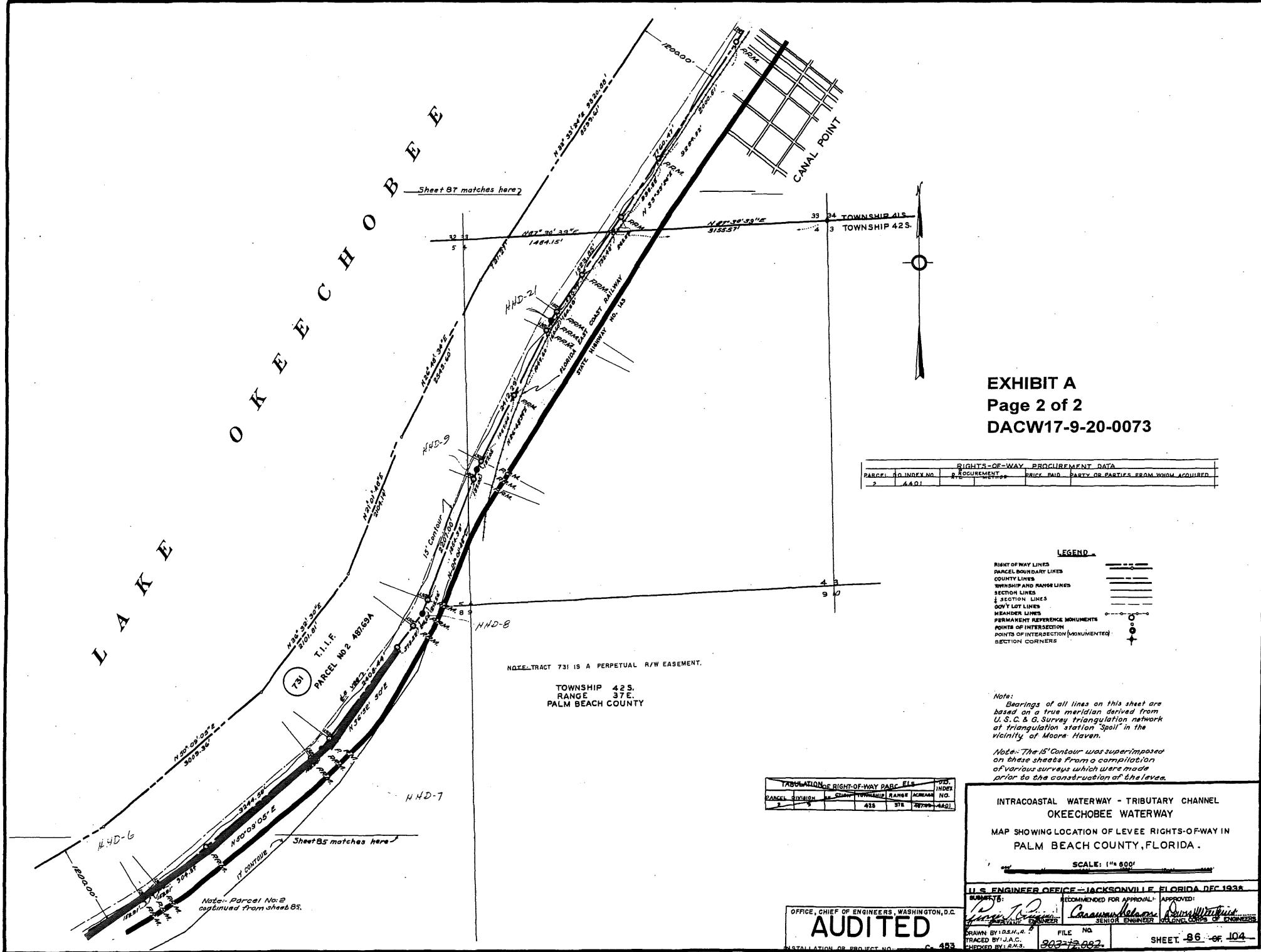
By: *Jim Stokes*
Director of Water Utilities

CERTIFICATE OF AUTHORITY

I, _____, certify that I am the _____ of
the Board of County Commissioners, Palm Beach County, Florida; that _____
_____ who signed the foregoing instrument on behalf of the Grantee
was then _____ of Palm Beach County Board of County
Commissioners. I further certify that the said officer was acting within the scope of
powers delegated to this officer by the governing body of the Grantee in executing said
instrument.

(Signature)





PAGE NO.
18-056

WATER MAIN RELOCATION FROM THE
HERBERT HOOVER DIKE (HHD) IN PAHOKEE
COVER



PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT

COUNTY of PALM BEACH
STATE of FLORIDA
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER MAIN RELOCATION FROM THE HERBERT HOOVER DIKE (HHD) IN PAHOKEE

WUD PROJECT No. 18-056

VERDENIA C. BAKER
COUNTY ADMINISTRATOR

BOARD OF COUNTY COMMISSIONERS



HAL R. VALECHE
District 1

GREGG K. WEISS
District 2

VICE MAYOR
DAVE KERNER
District 3

ROBERT S. WEINROTH
District 4

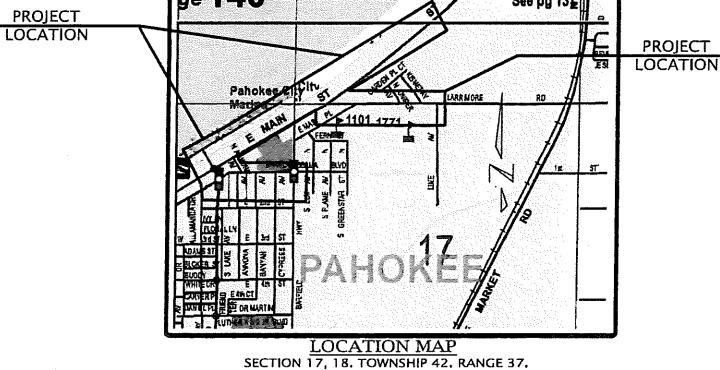
MARY LOU BERGER
District 5

MELISSA McKINLAY
District 6



INDEX OF PLANS

SHEET NUMBER	SHEET TITLE
WATER MAIN RELOCATION FROM THE HERBERT HOOVER DIKE (HHD) IN PAHOKEE	
OVERALL PROJECT GENERAL INFORMATION	
C-01	COVER
C-02	OVERALL PROJECT AREA KEY MAP
C-03	LEGEND & SURVEYORS NOTES
C-04	GENERAL NOTES
C-05	GENERAL DETAILS
C-06 - C-09	WUD STANDARD DETAILS
C-10 - C-17	PLAN SHEETS
C-18 - C-22	PLAN SHEETS
C-23	AERIAL CROSSING PROFILE
C-24 - C-25	HORIZONTAL CONTROL PLAN
C-26 - C-30	WUD WASTEWATER DETAILS



PERMIT SET

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS
MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ENGINEER's CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN
ARE IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN
STANDARDS AND CRITERIA IN EFFECT ON THIS DATE FOR
THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT,
PALM BEACH COUNTY ENGINEERING DEPARTMENT, AND THE
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARDS AND SPECIFICATIONS:

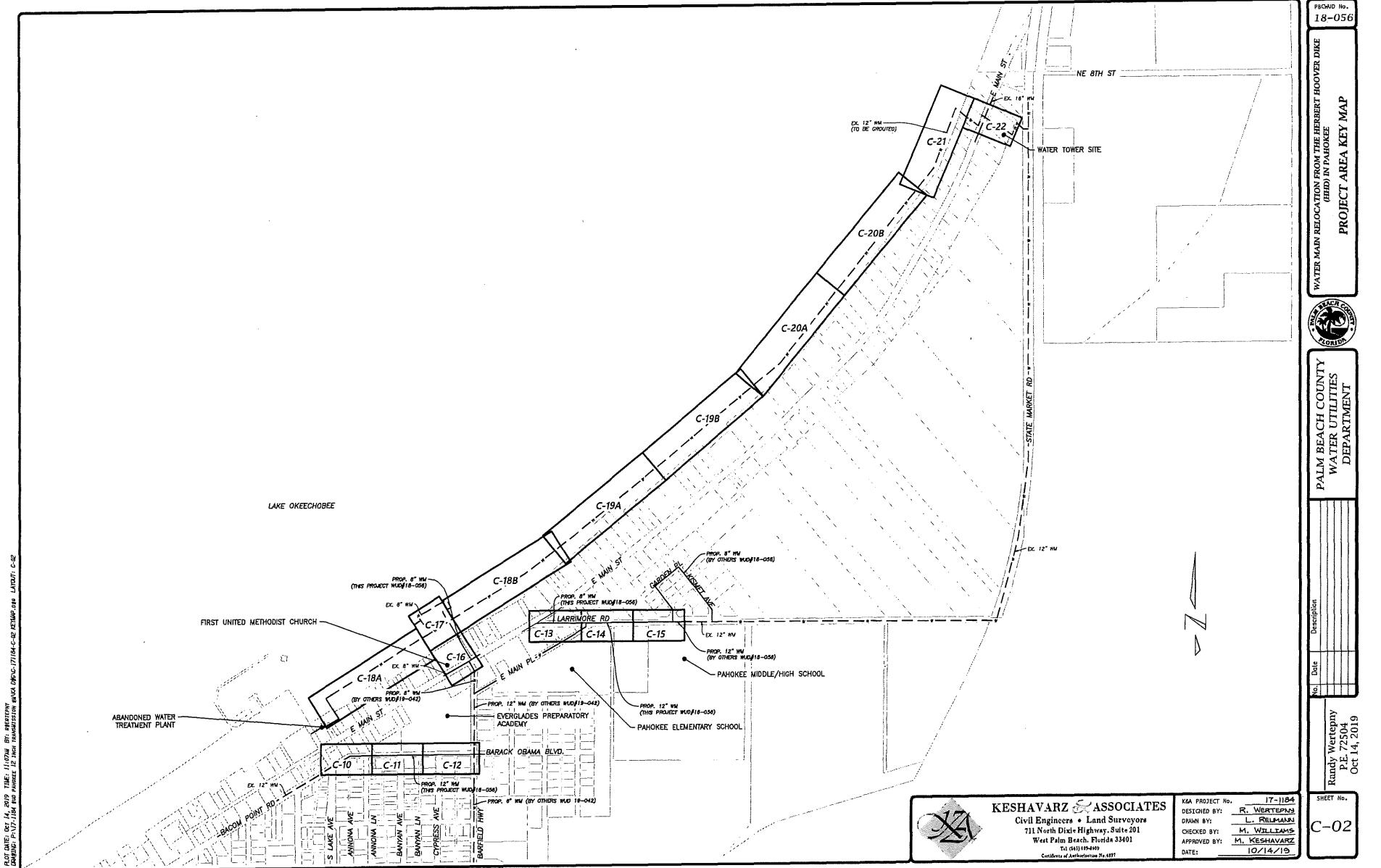
THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT'S MINIMUM
DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER, RECLAIMED
WATER AND WASTEWATER SYSTEMS' EFFECTIVE THE DATE OF PLAN
APPROVAL BY PALM BEACH COUNTY WATER UTILITIES DEPARTMENT AND
SPECIAL PROVISIONS THERETO IF NOTED IN THE CONTRACT SPECIFICATIONS
FOR THIS PROJECT.

KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel: (561) 964-0449
Certificate of Authorization No. 447

KMA PROJECT No. 17-1164
DESIGNED BY: R. V. VASQUEZ
DRAWN BY: L. REILMAN
CHECKED BY: M. WILLEMS
APPROVED BY: M. KESHAVARZ
DATE: 10/14/19

SHEET No.
C-01

EXHIBIT B - DACW17-9-20-0073



SURVEYOR'S NOTES:

CONVERSION FACTOR FOR PALM BEACH COUNTY BENCHMARK TITLED "PONCA"

$$\text{"PONCA": } 19.382 \text{ (NAYD88)} + 1.237 = 20.619 \text{ (NGVD29)}$$

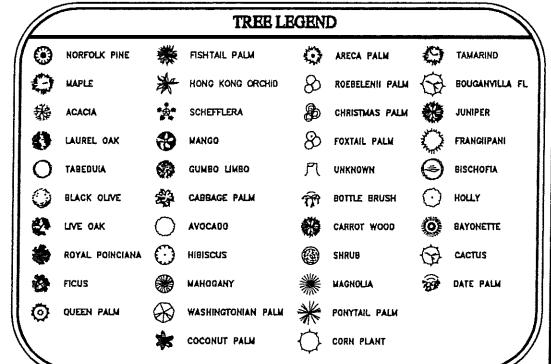
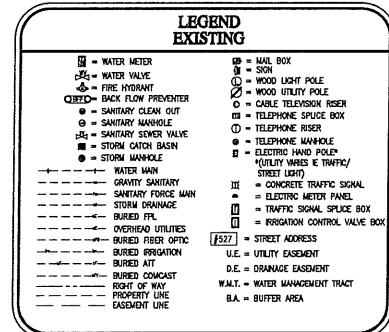
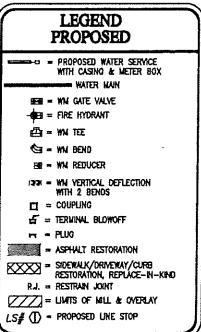
NGC 288 + 1237 = NGC 29

5. FOUNDATIONS, FORTERS AND OTHER UNDERGROUND FACILITIES THAT MAY EXIST HAVE NOT BEEN LOCATED UNLESS OTHERWISE SHOWN.
 6. EASEMENTS AND / OR RESTRICTIONS SHOWN HEREON THIS SURVEY ARE BASED SOLELY ON THE PLATS AS REFERENCED IN NOTE 2 ABOVE; THERE ARE NO ADDITIONAL EASEMENTS THAT AFFECT THE SURVEYED LANDS LOCATED IN THE TERRITORY OF THE CITY OF BEACH CITY, FLORIDA, NO SEARCH OF THE PUBLIC RECORDS BY KESHAWARZ & ASSOCIATES, INC.
 7. THE EXPECTED USE OF THE SUBJECT PROPERTY FALLS WITHIN THE SUBURBAN CATEGORY AS CLASSIFIED IN THE 2007 FLORIDA STATE PLANNING MAP. ALL MEASURED CONTROL MEASUREMENTS EXCEEDED THE ACCURACY REQUIREMENTS FOR THIS CLASSIFICATION.
 8. THE CONTRACTED USE OF THIS SURVEY IS FOR THE ENGINEERING DESIGN AND PERMITTING OF THE DESIGNATED PROJECTS LISTED ON THE SURVEY. NO FEES ARE TO BE PAID FOR ANY OTHER USE.
 9. THIS SURVEY IS PREPARED ONLY FOR THE PARTIES LISTED BELOW.
PREPARED FOR:
FANNING BEACH CITY WATER UTILITIES DEPARTMENT

10. © D 2019 BY KESHAWARZ & ASSOCIATES, INC., THE SURVEY AND SURVEY REPORT CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF THE SURVEYOR. THIS SURVEY AND SURVEY REPORT ACCOMPANYING THE OTHER SUBDIVISIONS OF THIS SURVEY IS NOT VALID WITHOUT THE ORIGINAL RAISED SEAL OF A FLORIDA SURVEYOR AND MAPPER EMPLOYED BY KESHAWARZ & ASSOCIATES, INC.

DATE OF SURVEY: NOVEMBER 02, 2016

SCOTT F. BRYSON
PROFESSIONAL SURVEYOR AND MAPPER



KESHAVARZ & ASSOCIATES

CIVIL ENGINEERS • LAND SURVEYORS

CIVIL Engineers • Land Surveyors
711 North Dixie Highway, Suite 201

West Palm Beach, Florida 33401

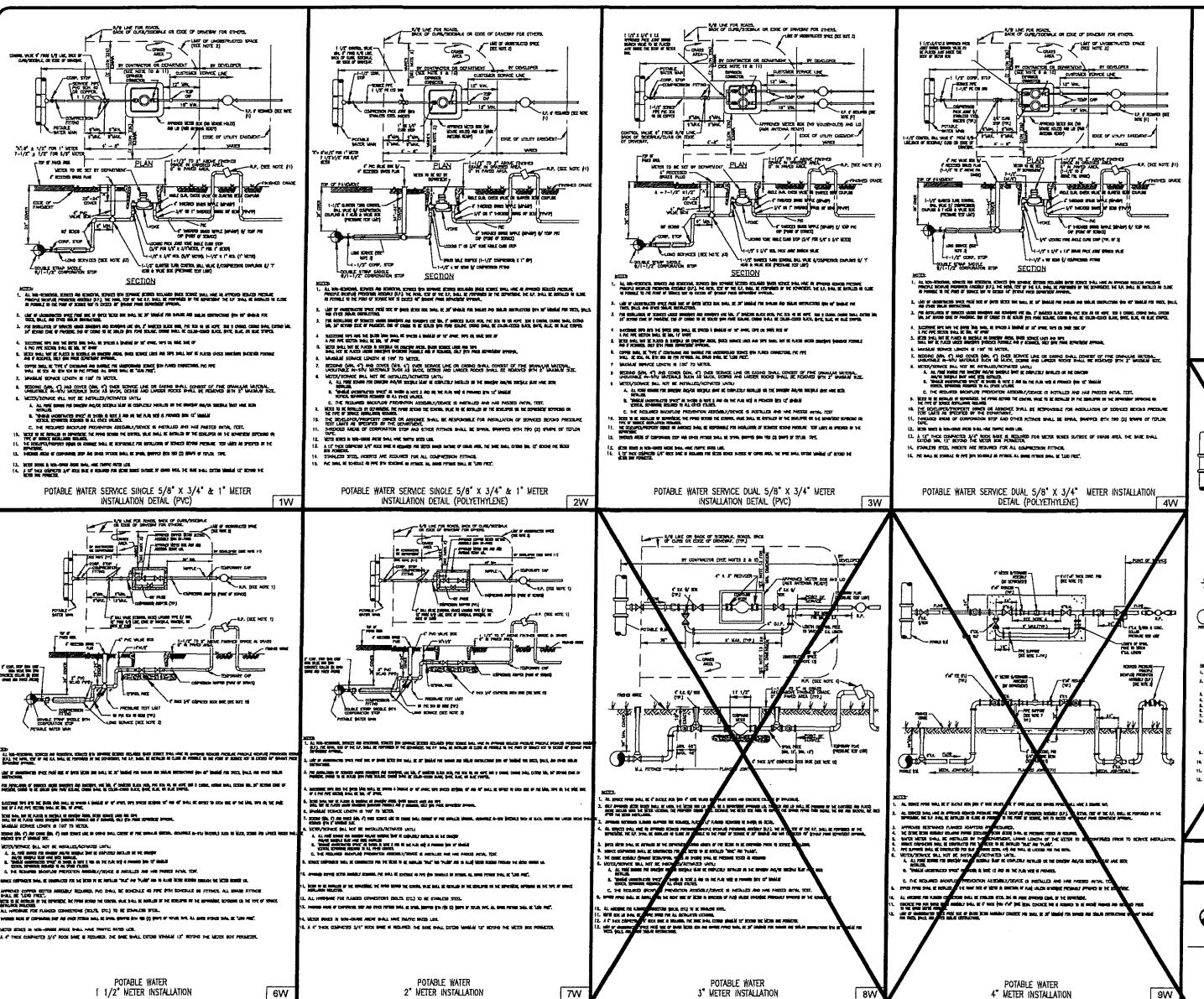
Tel (341) 489-4499

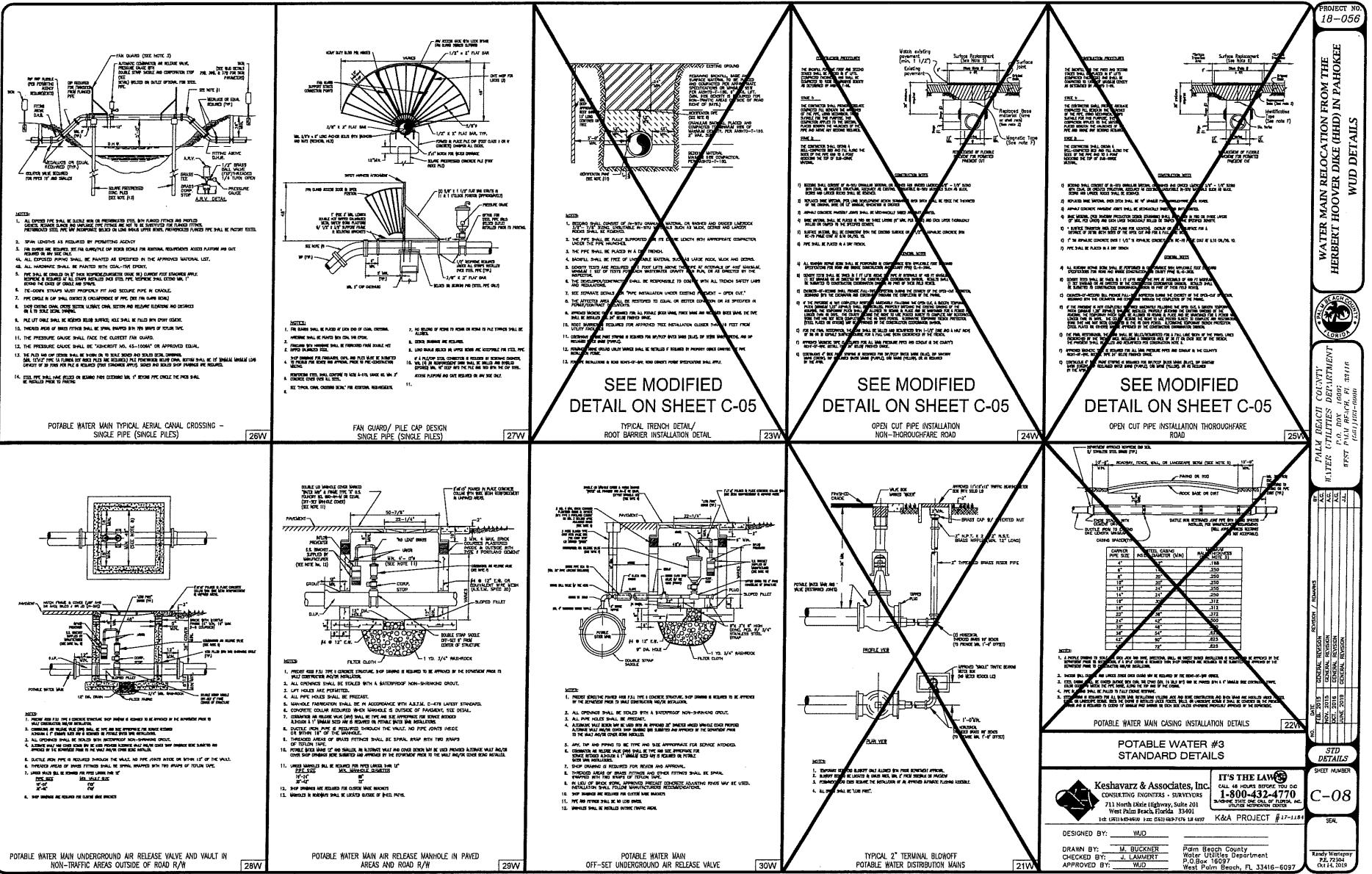
K&A PROJECT No. 17-1184
DESIGNED BY: R. WERTEPNY
DRAWN BY: L. REILMANN
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 10/14/19

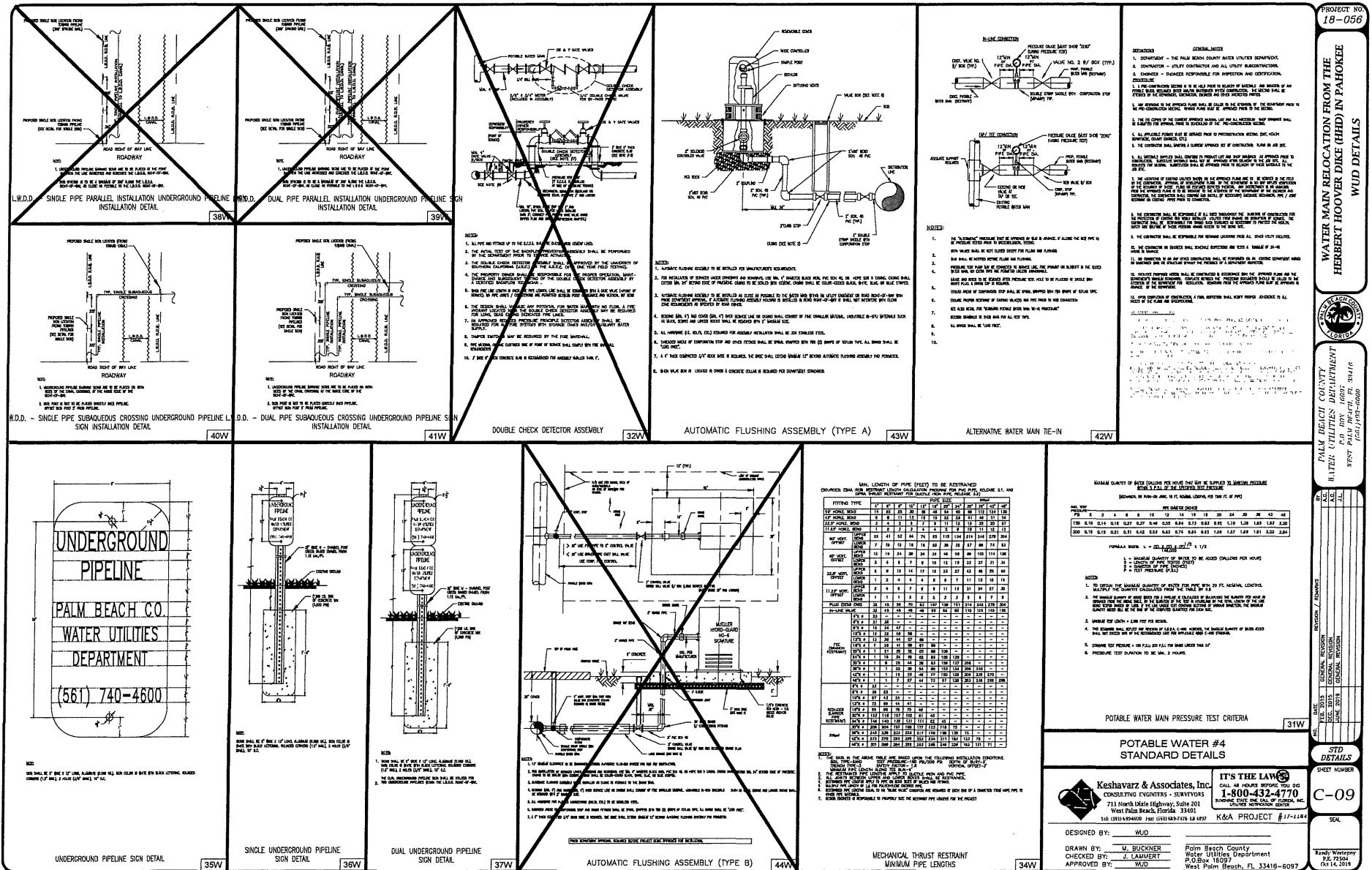
SHEET No.
C-03

Andy Wertepny
P.E. 72504
Apr 08, 2020

-05





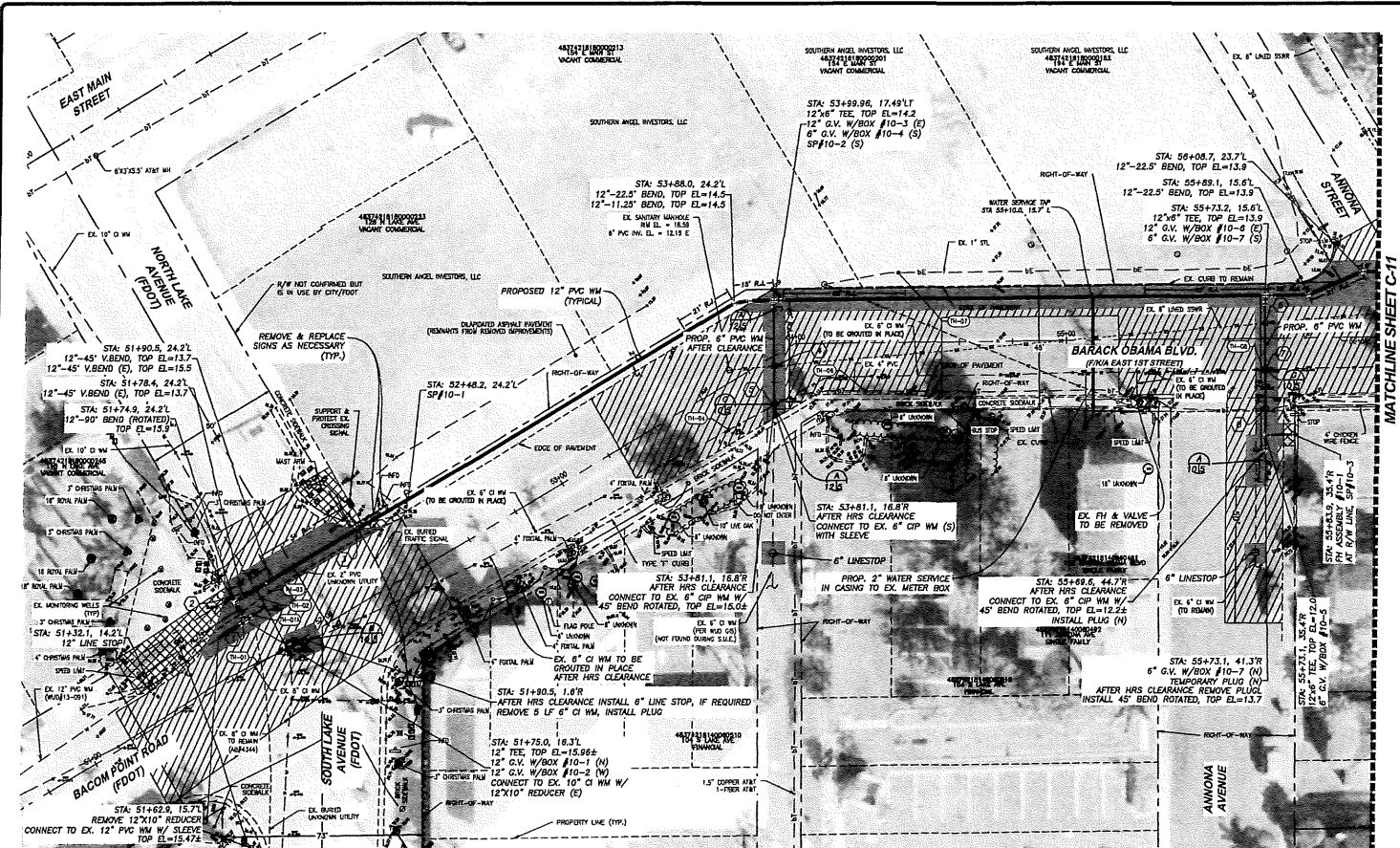




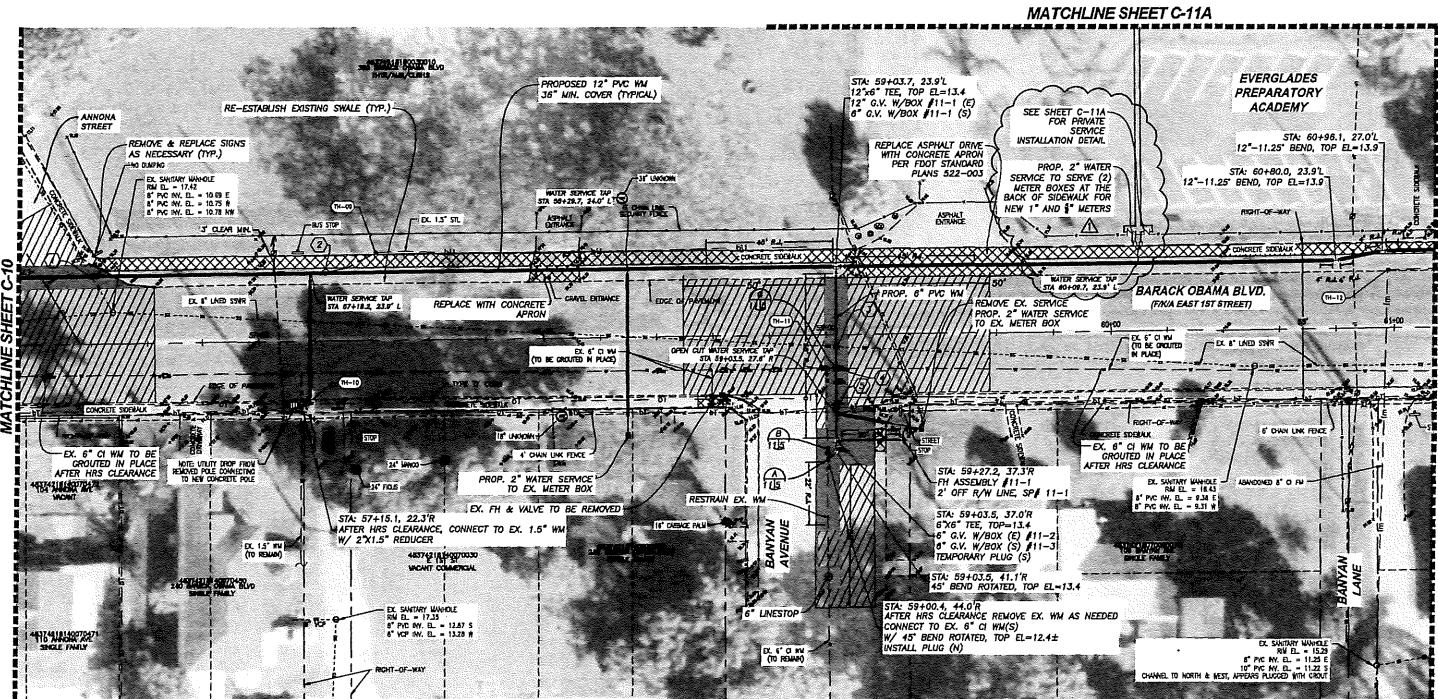
No.	Date	Description
Randy Wertkopy PE	Oct 14-2019	Sheet No. C-10

SHEET NO.
C-10

CONFIDENTIAL
FIC XAD DOCUMENT
RELEASER: RANDY WERTKOPY
In Accordance with F5
Chapter 11.80.01 (D1-D)
F5 Chapter 11.53

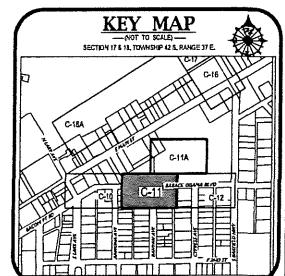


CONFIDENTIAL
PCW-DOD DOCUMENT
MATERIALS FOR CONSTRUCTION
In Accordance with FS
Chapter 119.07.01 (10)
Chapter 119.07.01 (10)



- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE PROPOSED WATER MAIN.
- ALL UTILITIES UNLINED SHALL BE HELD AND PROTECTED DURING CONSTRUCTION. ALL WATER MAINS SHALL BE HELD AND PROTECTED BY EXISTING UTILITIES WITH 4" HONDA VERTICAL CLEARANCE AND 12" HORIZONTAL CLEARANCE. EXISTING PROPOSED WATER SERVICES ARE TO CROSS OVERWATER DURING REPLACEMENT TO BE IN ACCORDANCE WITH SECTION 119.07.01 (10).
- ALL AREAS DISTURBED MUST BE RESTORED TO ORIGINAL GRADE AND SLOPES. CONTRACTOR IS TO HOLD GRAVE OF ENTIRE SITE OF PROJECT PRIOR TO CONSTRUCTION PERMIT.
- ALL EXISTING UTILITY LOCATIONS AND PLACES ARE TO BE REMOVED AND REPLACED IN-ZONE WHERE EXISTING UTILITIES ARE NOT CONNECTED TO PROPOSED WATER SERVICES. EXISTING MAIN AND BRANCH CONNECTIONS, ONE ELEVATION AT A TIME, SHALL BE REMOVED AND INSTALLED IN PLANS. DRAINED REPLACEMENT TO BE IN ACCORDANCE WITH SECTION 119.07.01 (10).
- CONTRACTOR TO COORDINATE LOCATION OF LINE STOPS AND/OR SHUT-OFFS OF EX. MAINS WITH ROAD AND PROPERTY OWNERS. CONTRACTOR TO BE BASED ON FUNCTIONAL CONDITION OF EXISTING VALVES.
- ALL PROPOSED GIP WATER MAIN SHALL BE PLACED IN A HORIZONTAL POSITION. EXISTING GIP WATER MAIN SHALL HAVE 3" HONDA CLEARANCE.
- GIP PIPE DEFLECTED AT THE JOINT SHALL NOT EXCEED 30 DEGREES. CONTRACTORS RESPONSIBLE FOR WATER MAIN DEFLECTION.
- WHERE SHOWN ON PLANS, EXIST. WATER MAINS ARE TO BE REMOVED AND PLACED IN PLACE AFTER HIS CLEARANCE OF THE GIP WATER MAIN.
- SEE SHEET C-01 FOR ADDITIONAL GENERAL NOTES. SEE SHEET C-01 FOR ADDITIONAL GENERAL DETAILS.
- PROP. WATER SERVICES ARE TO BE 2" UNLESS OTHERWISE SPECIFIED. REFER TO HHS STANDARD DETAILS FIG. 10-10W, SHEET C-04.

GRAPHIC SCALE
0 10 20 40



TEST HOLE DATA			
NO.	EX GROUND ELEV (FT)	MEASURED DEPTH (FT)	DESCRIPTION
TH09	16.56	2.63	1.5" STEEL UNKNOWN
TH10	16.19	1.46	1.5" PVC WATER
TH11	16.99	4.61	6" CAST IRON WATER
TH12	15.81	2.93	6" CAST IRON SANITARY SEWER FORCE MAIN

VERTICAL DATUM	
ALL ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)	CONVERSION FACTOR: NAVD88 + 1.24 = NGVD29
LSD	LSA

KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel (561) 479-4449
Certificate of Authorization No. 4397

KAA PROJECT NO. 17-1184
DESIGNED BY: R. WELKOPUS
DRAWN BY: L. REILMAN
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 04/08/20

IT'S THE LAW!
CALL TWO (2) BUSINESS DAYS
BEFORE YOU DIG
SUNSHINE 811

PLOT DATE: Apr 06, 2020 TIME: 2:58PM BT: ADRENELL
DRAWING: PL-17114 ID: PL-17114 DPC-C-17-1184 G10-017 PLAN SHEETS.SEP LAND/C-11

UTILITY CONFLICT CROSSING TABLE

① PROP. 12" PVC MW, BOT EL=2.57	② EX. 12" SAN. SEWER, TOP EL=1.57±	③ 1" PVC S. SEWER
④ EX. 1.5" STEEL UNHORN, BOT EL=1.37	⑤ PROP. 12" PVC MW, TOP EL=2.45±	⑥ EX. 8" PVC (LINED) SEWER, TOP EL=10.50±
⑦ PROP. 6" DIP MW, BOT EL=12.65	⑧ EX. 8" PVC MW, BOT EL=12.67	⑨ EX. 8" PVC MW (TO BE CROSSED AND ABANDONED), TOP EL=12.33±
⑩ EX. 4" PVC Buried AT&T, BOT EL= 14.09±	⑪ EX. 6" PVC MW, TOP EL=12.53	

LEGEND EXISTING
— WATER MAIN
— SEWER FORCE MAIN
— SANITARY SEWER
— BURIED CABLE
— OVERHEAD FPL
— BURIED AIR
— BURIED FIBER OPTIC
— BOLLARD
— RIGHT-OF-WAY
— EXISTENT LINE
— CABLE TELEVISION RISER
— BACK FLOW PREVENTER

LEGEND PROPOSED
— RESTRAIN joint
— PROPOSED WATER MAIN
— PROPOSED FIRE HYDRANT
— PROPOSED LINE STOP
— LIMITS OF MILL & OVERLAY
— SIDEWALK/ROADWAY/DRIVE RESTORATION, CONCRETE
— ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION

R.J. = RESTRAIN joint
W.M. = WATER MAIN
F.H. = FIRE HYDRANT
L.S. = LINE STOP
S.R. = SIDEWALK/ROADWAY/DRIVE RESTORATION, CONCRETE
A.R. = ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION

R.J. = RESTRAIN joint

W.M. = WATER MAIN

F.H. = FIRE HYDRANT

L.S. = LINE STOP

S.R. = SIDEWALK/ROADWAY/DRIVE RESTORATION, CONCRETE

A.R. = ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION

R.J. = RESTRAIN joint

W.M. = WATER MAIN

F.H. = FIRE HYDRANT

L.S. = LINE STOP

S.R. = SIDEWALK/ROADWAY/DRIVE RESTORATION, CONCRETE

A.R. = ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION

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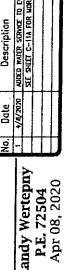
F.H. = FIRE HYDRANT

L.S. = LINE STOP

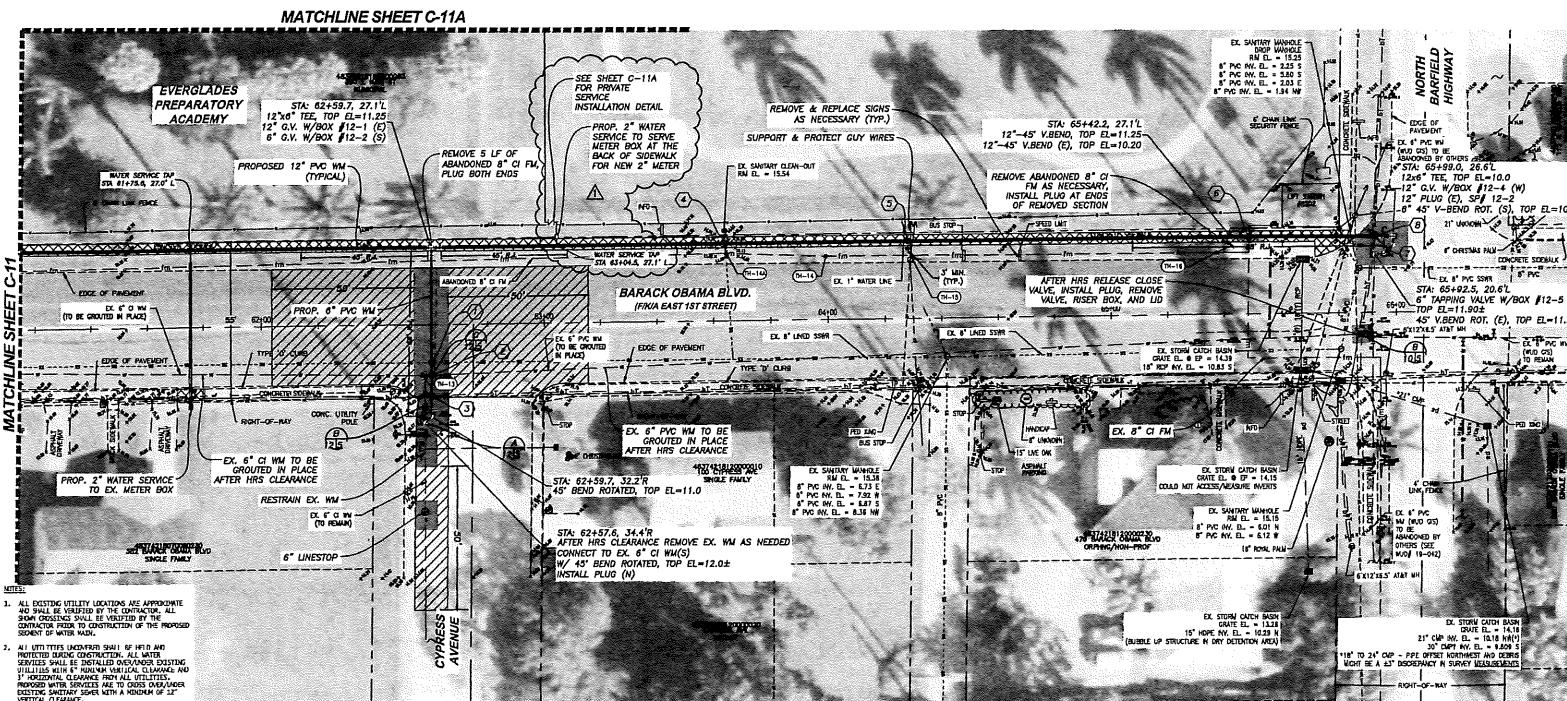
S.R. = SIDEWALK/ROADWAY/DRIVE RESTORATION, CONCRETE

A.R. = ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION



CONFIDENTIAL
PROJECT INFORMATION
NOT FOR PUBLIC DISCLOSURE
In Accordance with FS
Chapter 11.071 (d)
FS Chapter 11.071



PLOT DATE: Apr 08, 2020 TIME: 4:18pm BT: 10471 MD Planner: 12 Inch TopoSheet: C-12

IT'S THE LAW!
CALL 800-822-8020
WITHIN 48 HOURS
IF YOU SEE
SUNSHINE 811

ALL DIGGERS MUST CALL 800-822-8020
BEFORE THEY DIG
TO AVOID ACCIDENTAL
DAMAGING OF WATER MAINS
AND OTHER UTILITIES

MATCHLINE SHEET C-11A

C-12

SEE HORIZONTAL CONTROL PLAN SHEETS C-24 & C-25 FOR HORIZONTAL CONTROL INFORMATION ON PLAN SHEETS C-10 THROUGH C-17 & C-23

UTILITY CONFLICT CROSSING TABLE

- ① PROPOSED 6" PVC WM, BOT EL=10.43
EX. 8" VCP (LINED) SEWER, TOP EL=9.375
- ② EX. 6" CPV WM, BOT EL=12.03
PROPOSED 6" PVC WM, TOP EL=11.00
- ③ EX. 4" PVC BURIED AT 8", BOT EL=13.224
PROPOSED 6" PVC WM, TOP GL=11.00
- ④ PROPOSED 12" PVC WM, BOT EL=8.70
EX. 1" BURIED WATER LINE, BOT EL=8.32
- ⑤ PROPOSED 12" PVC WM, TOP EL=11.28
EX. 8" CI SANITARY SEWER, BOT EL=11.24
- ⑥ PROPOSED 12" PVC WM, TOP EL=10.00
EX. ATRA Duct, BOT EL=11.28
- ⑦ PROPOSED 12" PVC WM, TOP EL=10.00
6" WM. SEPARATION
- ⑧ EX. 6" PVC WM, BOT EL=11.32
PROPOSED 12" PVC WM, TOP EL=10.00

NO.	EXISTING ELEV (FT)	MEASURED DEPTH (FT)	DESCRIPTION
TH13	15.59	3.26	6" PVC WATER
TH14	15.07	2.49	8" CAST IRON SANITARY SEWER FORCE MAIN
TH14A	15.08	6.76	PVC SANITARY SEWER SERVICE LATERAL
TH15	15.29	2.25	1" WATER
TH16	14.58	2.60	8" CAST IRON SANITARY SEWER FORCE MAIN

TEST HOLE DATA
ALL ELEVATIONS SHOWN ARE IN
NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88)
CONVERSION FACTOR:
NAVD88 + L24 = NGVD29

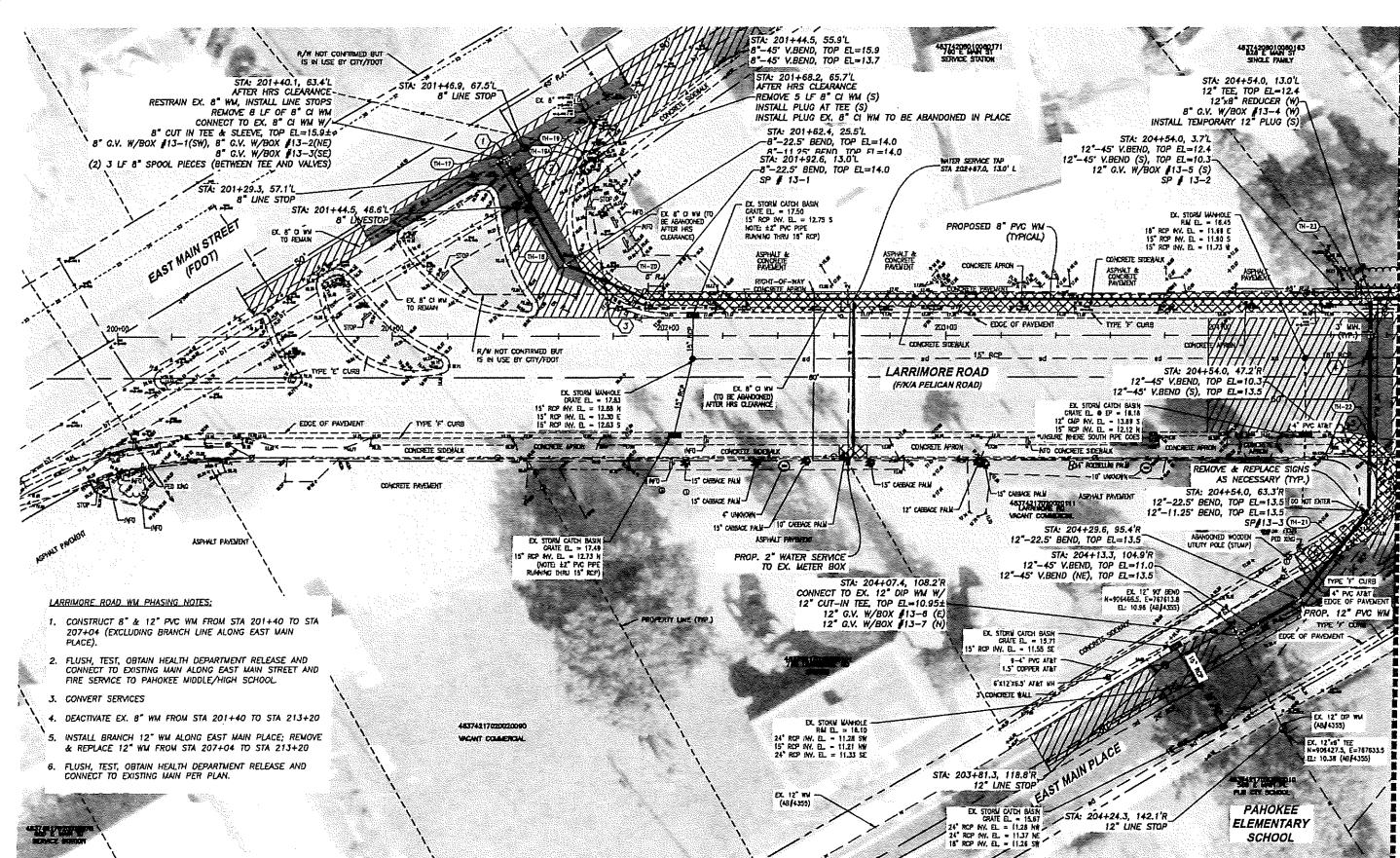
VERTICAL DATUM
ALL ELEVATIONS SHOWN ARE IN
NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD88)
CONVERSION FACTOR:
NAVD88 + L24 = NGVD29

KESHAVARZ ASSOCIATES

Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel (561) 964-0449
Certificate of Authorization No. 4197

KAA PROJECT NO.: 17-1144
DESTROYED BY: R. WERTHEIM
DRAWN BY: L. REILMAN
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 04/08/20

SHEET No.
C-12



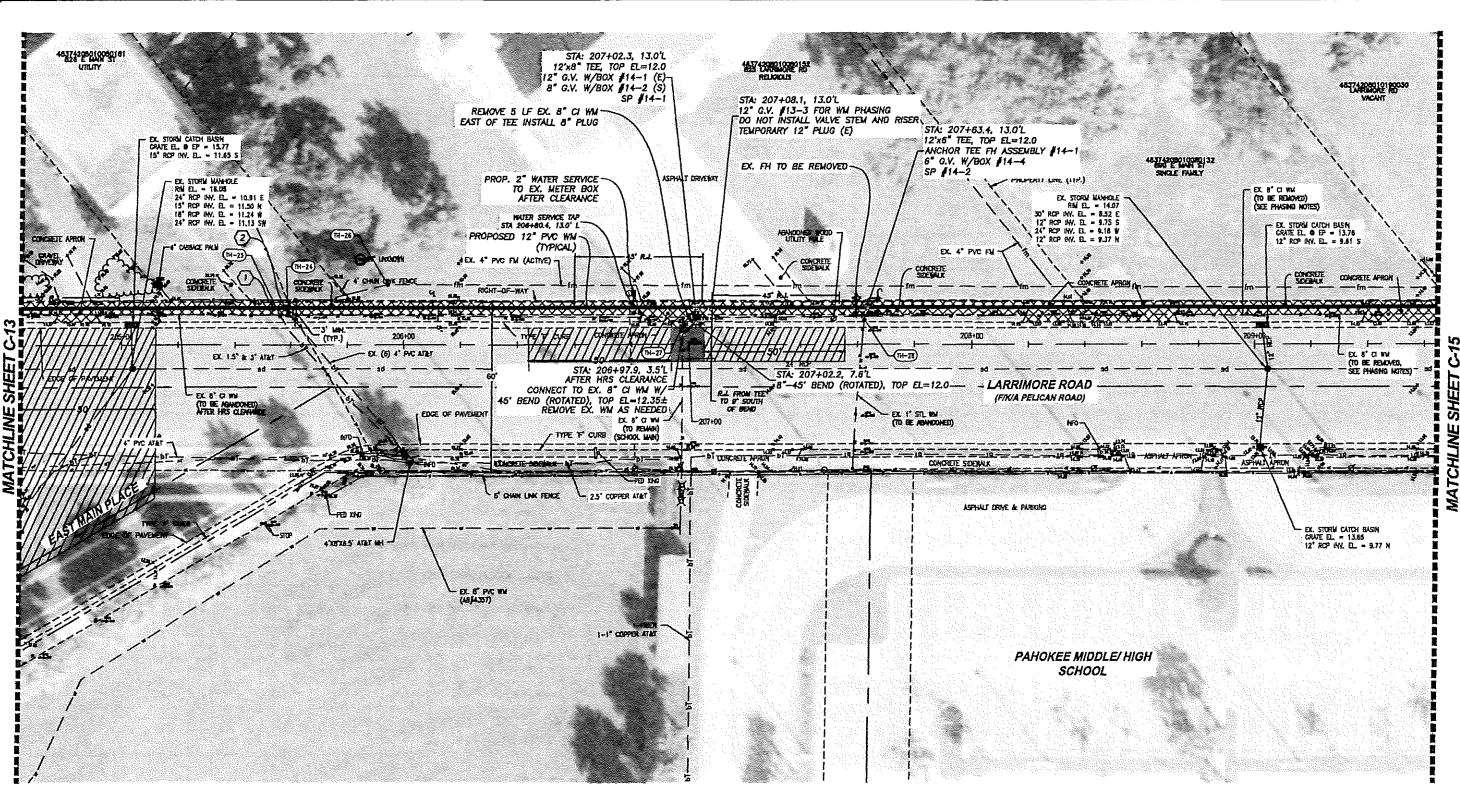


No.	Date	Description

Randy Westerby
P.E. #72504
Oct 14, 2019

SHEET No.
C-14

CONFIDENTIAL
FBC WAD DOCUMENT
HOLDING PENDING APPROVAL
In Accordance with FS
Chapter 11
Glossary 118.071 (319)
FS Chapter 113



SEE HORIZONTAL CONTROL PLAN SHEETS C-24 &
C-25 FOR HORIZONTAL CONTROL INFORMATION ON
PLAN SHEETS C-10 THROUGH C-17 & C-23

PLOT DATE: OCT 14, 2019 TIME: 11:18AM BFC: BENTON
DRAWING: PAH-104 AND PHASE: 12 HIGHWAY MAINTENANCE WORKS DPC-C-17-184 C10-C17 PLAN SHEETS SHEF LAYOUT: C-14

IT'S THE LAW!
CALL TWO (2) BUSINESS DAYS
BEFORE YOU DIG
SUNSHINE 811

UTILITY CONFLICT CROSSING TABLE

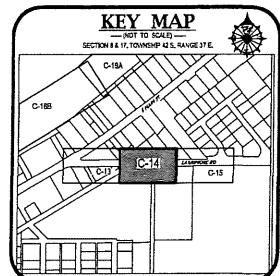
- (1) EX. 1.5" UNKNOWN TELEPHONE, BOT EL=12.80
PROP. 1.5" DIA. BURIED CABLE, TOP EL=11.12
PROP. 1.5" PVC MM, TOP EL=11.12
REFLECT EX. UTILITY AS NECESSARY.
- (2) EX. (8) 4" TELEPHONE, BOT EL=13.24
PROP. 12" PVC MM, TOP EL=12.70

LARRIMORE ROAD WM PHASING NOTES:

1. CONDUCT 8" & 12" PVC WM FROM STA 201+40 TO STA 213+00 (EXCLUDING BRANCH LINE ALONG EAST MAIN PLACES).
2. FLUSH, TEST, OBTAIN HEALTH DEPARTMENT RELEASE AND CONNECT TO EXISTING MAIN ALONG EAST MAIN STREET AND FIRE SERVICE TO PAHOKEE MIDDLE/HIGH SCHOOL.
3. CONVERT SERVICES
4. DEACTIVATE EX. 8" WM FROM STA 201+40 TO STA 213+20
5. INSTALL BRANCH 12" WM ALONG EAST MAIN PLACE; REMOVE & REPLACE 12" WM FROM STA 207+04 TO STA 213+20
6. FLUSH, TEST, OBTAIN HEALTH DEPARTMENT RELEASE AND CONNECT TO EXISTING MAIN PER PLAN.

LEGEND IDENTIFYING		SEE SHEET 3 FOR ADDITIONAL INFORMATION		LEGEND PROPOSED		VERTICAL DATUM	
—	—	WATER MAIN	—	WATER MAIN	—	ALL ELEVATIONS SHOWN ARE IN	
—	—	GRAVITY SEWER	—	WATER GATE VALVE	—	NORTH AMERICAN VERTICAL	
—	—	SEWER FORCE MAIN	—	PROPOSED WATER SERVICE	—	DATUM OF 1988 (NAVD88)	
—	—	SEWER FORCE MAIN	—	WITH CASING & METER BOX	—	CONVERSION FACTOR:	
—	—	—	—	—	—	NAVD88 + 1.24 = NGVD29	
—	—	BURIED PIPE	—	PROPOSED FIRE HYDRANT	—		
—	—	OVERHEAD FPL	—	PROPOSED LINE STOP	—		
—	—	BURIED AT	—	LAUNTS OF MILL & OVERLAY	—		
—	—	BURIED FIBER OPTIC	—	RESTORATION, CONCRETE	—		
—	—	CABLE TELEVISION RISER	—	ASPHALT RESTORATION	—		
—	—	BACK FLOW PREVENTER	—		—		

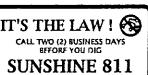
NO.	EX-GROUND ELEV.(FT)	MEASURED DEPTH(FT)	DESCRIPTION
TH24	15.85	2.24	(4) 4" TELEPHONE
TH25	16.09	3.05	1.5" TELEPHONE
TH26	15.86	4.37	SANITARY FORCE MAIN
TH27	14.57	2.22	8" CAST IRON WATER
TH28	14.71	2.70	1" STEEL WATER



KESHAVARZ ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel (561) 454-5449
Certificate of Authorization No. 4471

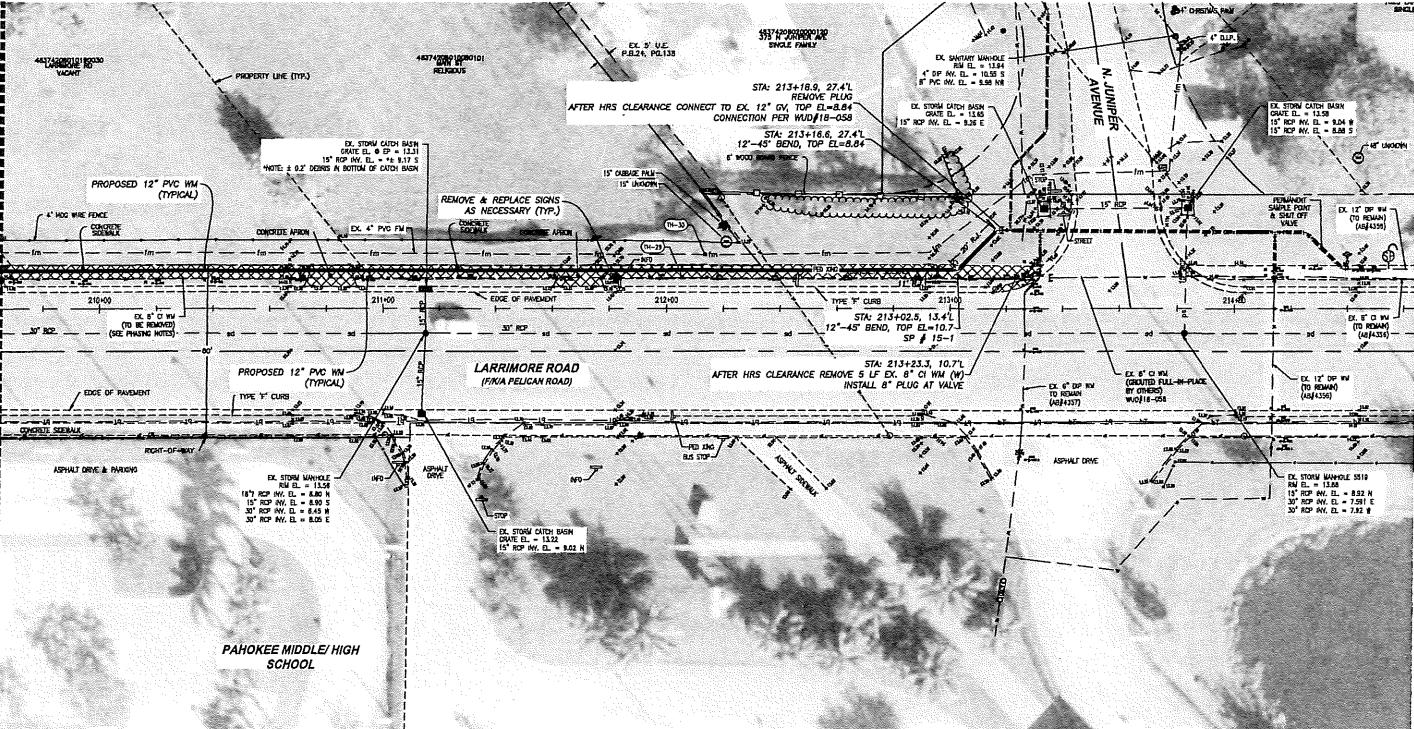
KSA PROJECT NO.: 17-1184
DESIGNED BY: R. WERTHEY
DRAWN BY: L. REILLY
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 10/14/19

PLOT DATE: OCT 14, 2019 TIME: 11:11 AM BY: REQUESTER
RECEIVED BY: NOVA DIC-C-17-1184 GLO-CI7-1184
DRAWING: P17-1184 TWO PHASES 12 INCH TRANSMISSION NOVA DIC-C-17-1184 GLO-CI7-1184
LAT/UTM: C-15



- - - - - WATER MAIN
 - - - - - GRAVITY SEWER
 - - - - - SEWER FORCE MAIN
 - - - - - STORM DRAINAGE
 - - - - - BURIED FPL
 - - - - - OVERHEAD FPL
 - - - - - BURIED ATT
 - - - - - BURIED FIBER OPTIC

MATCHLINE S

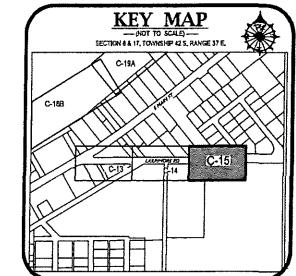


SEE HORIZONTAL CONTROL PLAN SHEETS C-24 & C-25 FOR HORIZONTAL CONTROL INFORMATION ON PLAN SHEETS C-10 THROUGH C-17 & C-23

LAFBIMORE ROAD #24 PHASING NOTES:

1. CONSTRUCT 8' x 12' PVC WM FROM STA 201+40 TO STA 207+04 (EXCLUDING BRANCH UNE ALONG EAST MAIN PLACE).
 2. FLUSH, TEST, OBTAIN HEALTH DEPARTMENT RELEASE AND CONNECT TO EXISTING MAIN ALONG EAST MAIN STREET AND FIRE SERVICE TO PAHOKEE MIDDLE/HIGH SCHOOL
 3. CONVERT SERVICES
 4. DEACTIVATE EX. 8' WM FROM STA 201+40 TO STA 213+20
 5. INSTALL BRANCH 12" WM ALONG EAST MAIN PLACE; REMOVE & REPLACE 12" WM FROM STA 207+04 TO STA 213+20
 6. FLUSH, TEST, OBTAIN HEALTH DEPARTMENT RELEASE AND CONNECT TO EXISTING MAIN ALONG EAST MAIN STREET AND FIRE SERVICE TO PAHOKEE MIDDLE/HIGH SCHOOL

TEST HOLE DATA			
NO.	EX GROUND ELEV (FT)	MEASURED DEPTH (FT)	DESCRIPTION
TH28	13.83	2.76	8" CAST IRON WATER
TH30	13.81	3.29	4" PVC SANITARY FORCE PIPE



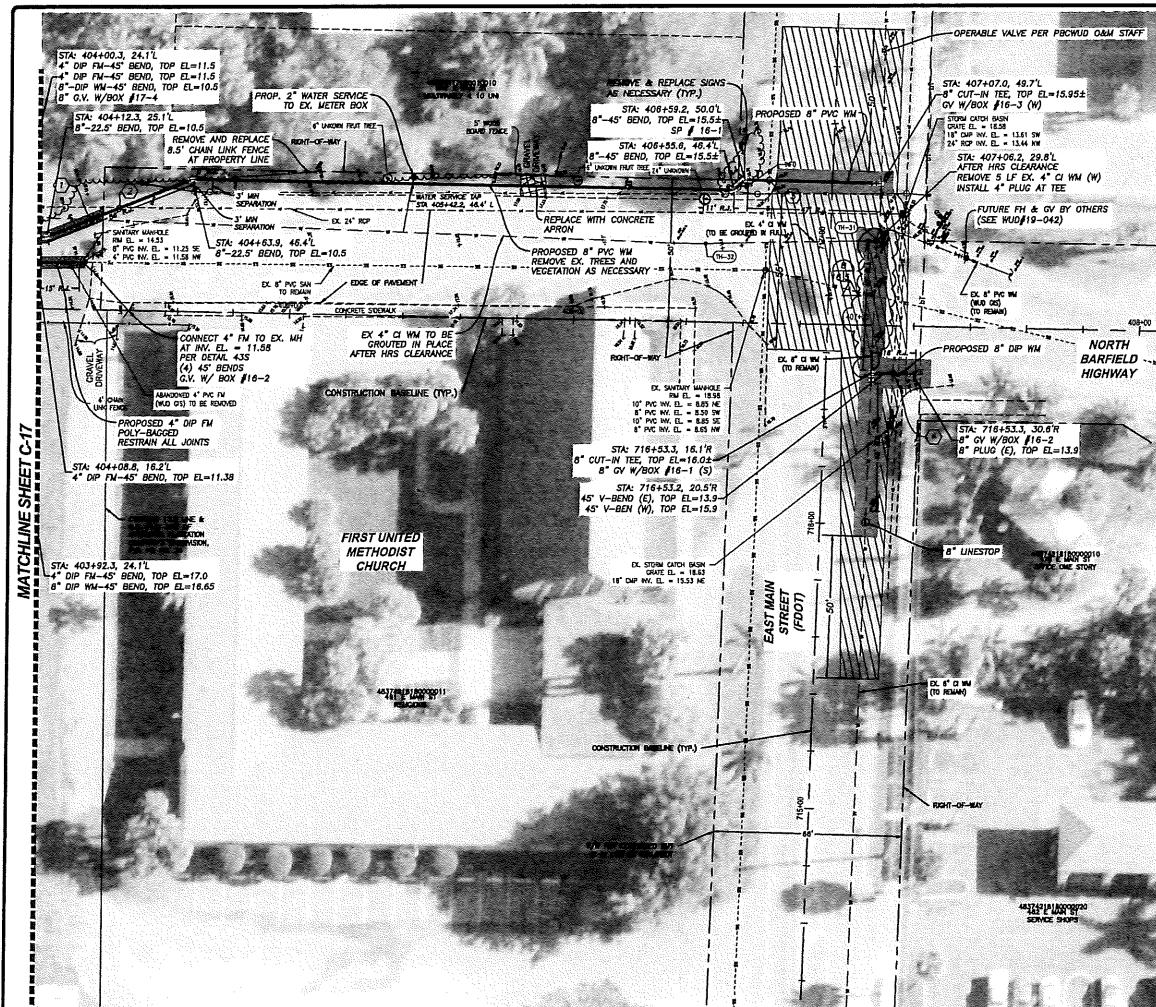
www.english-test.net

KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel. (561) 464-4469

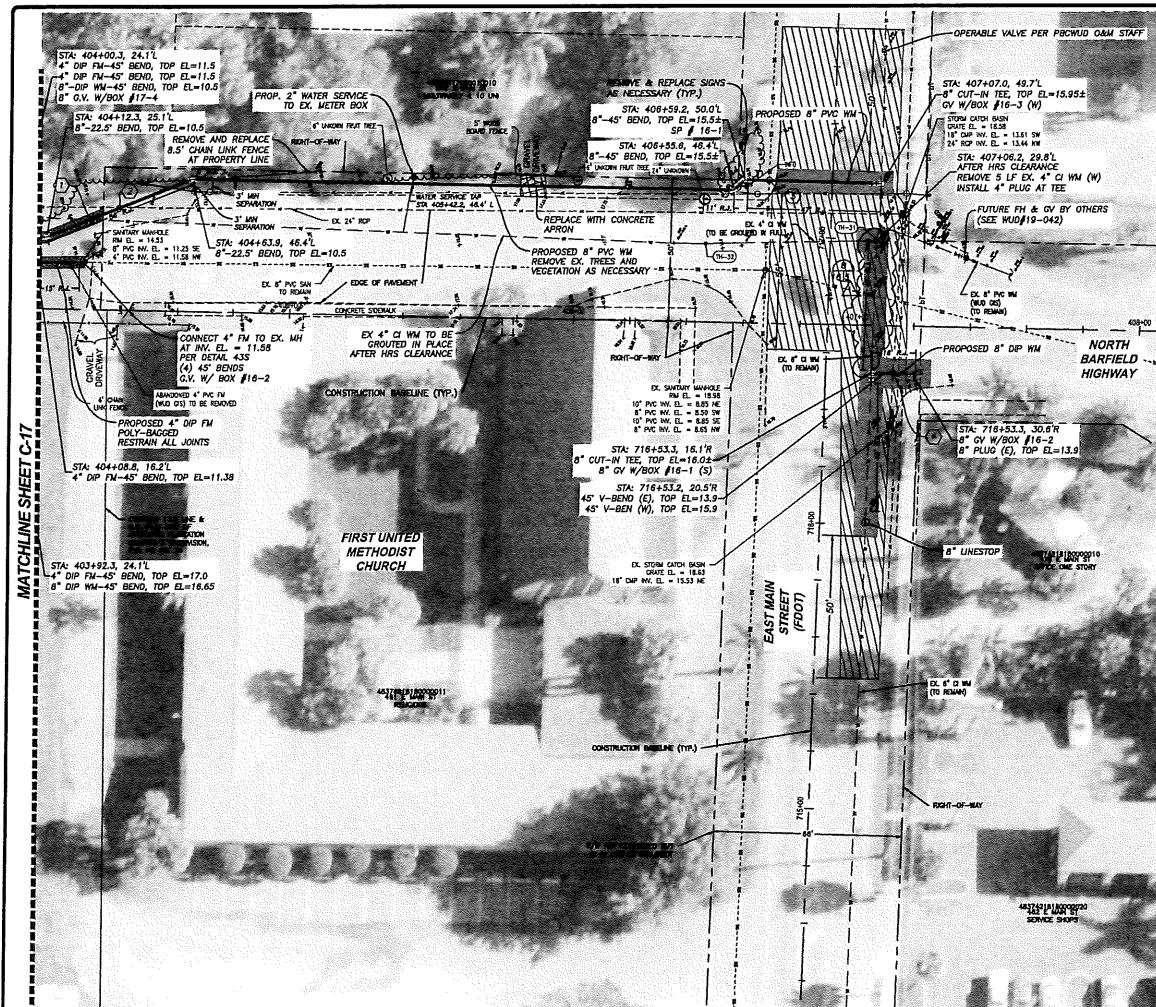
K&A PROJECT No. _____
DESIGNED BY: _____ R.
DRAWN BY: _____
CHECKED BY: _____ M.
APPROVED BY: _____ M.
DATE: _____

SHEET No.
C-15

CONFIDENTIAL
NOT FOR PUBLIC DISCLOSURE
In Accordance with F3
Article 10, Chapter 1
Chapter 118.071 (D) (8)
F5 Chapter 153



PLOT DATE: Feb 14, 2020 TIME: 11:44AM BY: ABRENIEN
DRAWING: P-17-184 AD Paquieret 12 Inch Transformation WWA DPC-C-17-184 CIR-C17 PLAT SHEETS.dwg LAYER: C-16



Randy Wertepny
P.E. #72504
Feb 14, 2020

SHEET NO.
C-16

**PBCUD No.
18-056**

CONFIDENTIAL
PFC WAD DOCUMENT
DRAFT - NOT FOR CONSTRUCTION
In Accordance with F2
Chapter 281.101 FS
Chapter 281.101.1a
F5 Chapter 153

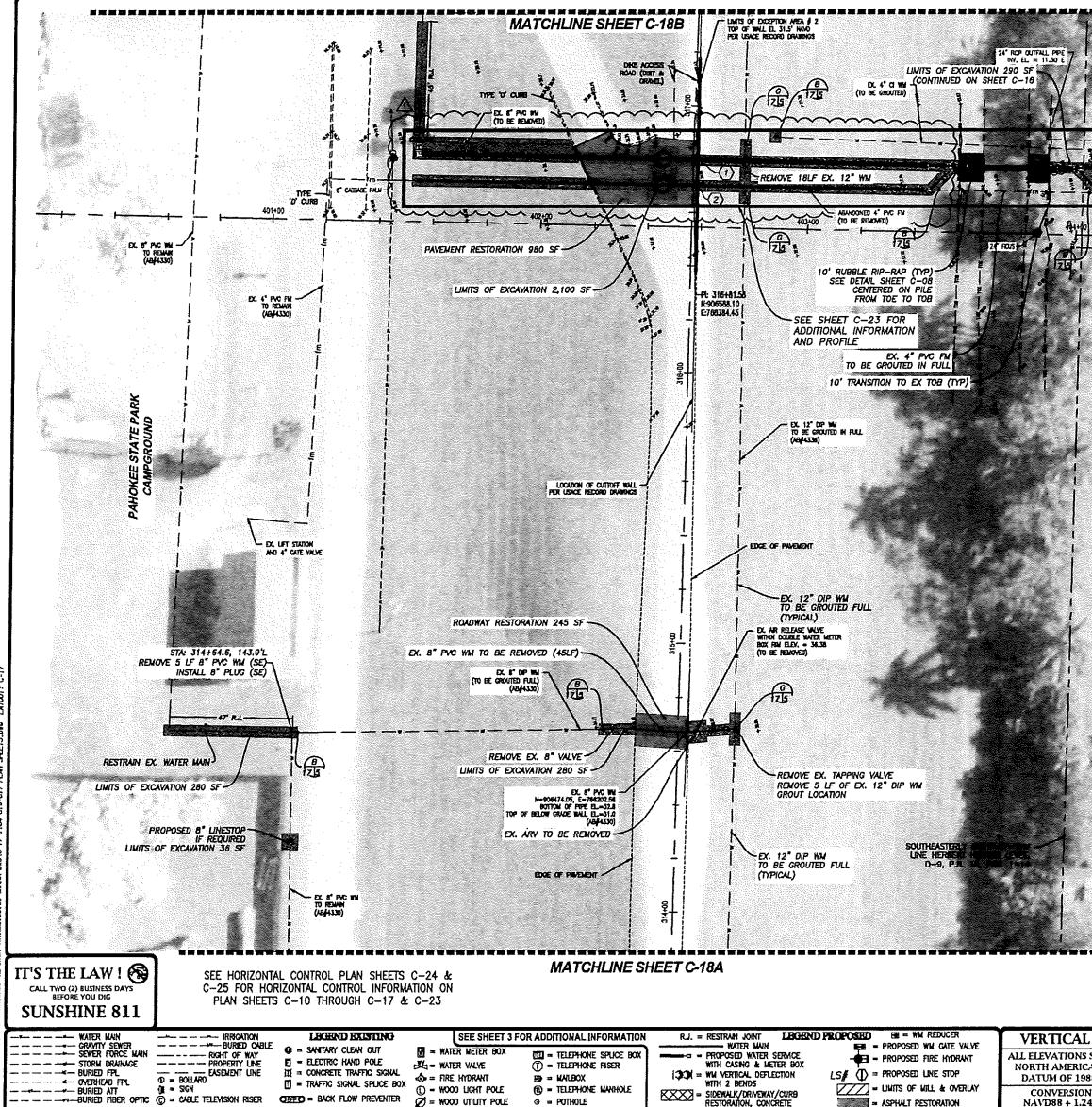
**WATER MAIN RELOCATION FROM THE
HERBERT HOOVER DIKE (HHD) IN PAHOKEE
PLAN SHEET**



**PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT**

No.	Date	Description
1.	2/27/2020	Test Hole Data
2.	3/7/2020	Test Hole Data
3.	3/12/2020	Test Hole Data
4.	3/17/2020	Test Hole Data

SHEET NO.	Randy Wertepay P.E. #2504 Mar. 02, 2020
C-17	

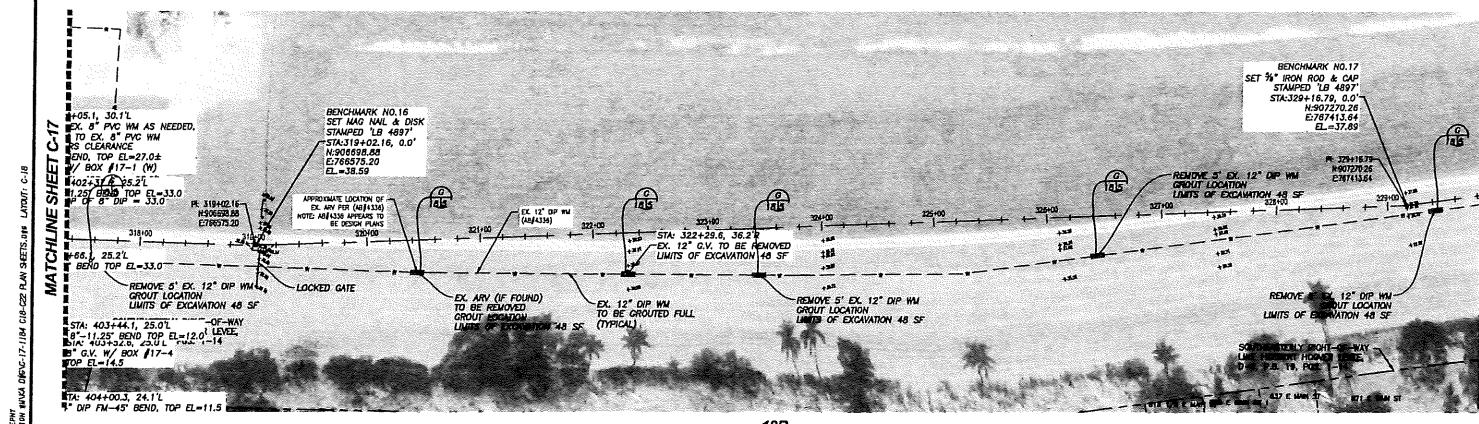
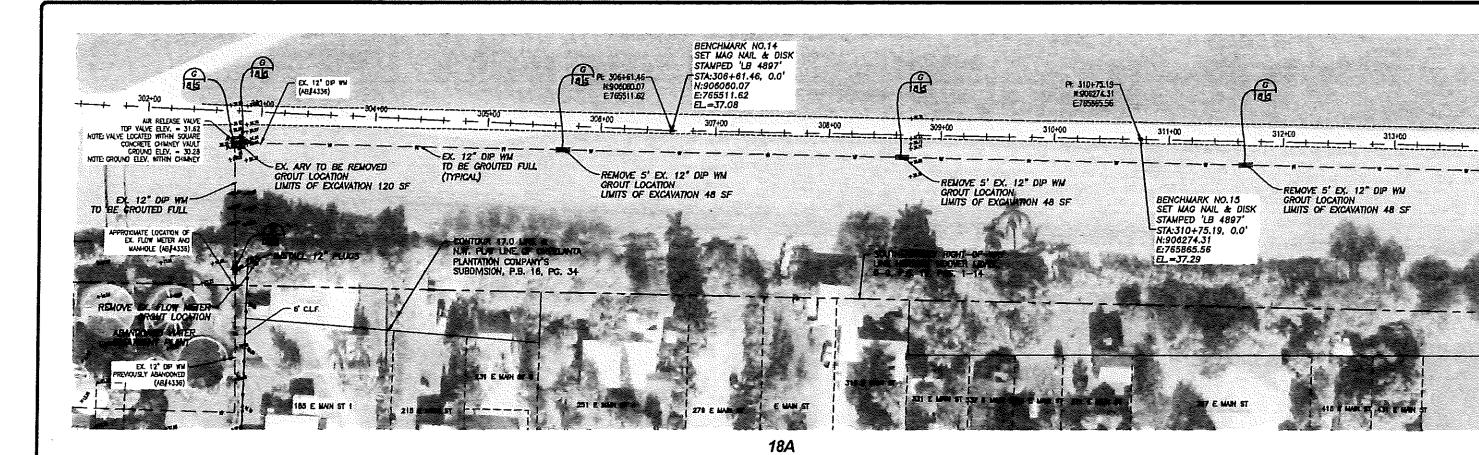
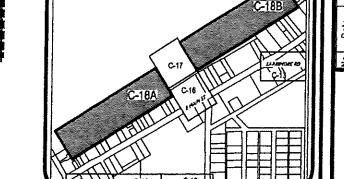
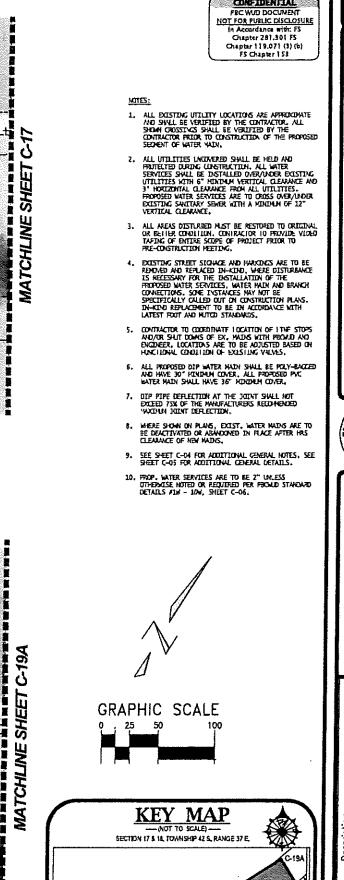


CONFIDENTIAL
FCC WD DOCUMENT
NOTICE OF EXISTING UTILITIES
In Accordance with FS
Chapter 281.301, FS
Chapter 281.301.1, FS
Chapter 281.1

**WATER MAIN RELOCATION FROM THE
HERBERT HOOVER DIKE (HHD) IN PAHOKEE**

**PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT**

SHEET NO.	Date	Description
C-18	Oct 14, 2019	Randy Wertecky P.E. #2504



MATCHLINE SHEET C-17

MATCHLINE SHEET C-18

MATCHLINE SHEET C-19

IT'S THE LAW!
CALL TWO (2) BUSINESS DAYS
IF YOU FIND
SUNSHINE 811

Plot Date: Oct 14, 2019 TIME: 11:12AM BY: RWE
Drawing: PLT-17184
Sheet: C-17
Plan Sheets: C-18, C-19
Landmark: C-18

LEGEND EXISTING

- WATER MAIN
- SEWER FORCE MAIN
- SEWER OVERFLOW
- BURIED PIPE
- OVERHEAD FPL
- BURIED AT
- BURIED FIBER OPTIC
- BURIED CABLE
- RIGHT OF WAY
- PROPERTY LINE
- SANITARY CLEAN OUT
- ELECTRIC POLE
- CONCRETE TRAFFIC SIGNAL
- TELEPHONE SIGNAL SPLICE BOX
- BOLLARD
- BACK FLOW PREVENTER

LEGEND PROPOSED

- RESTRAIN JACKET
- WATER MAIN
- PROPOSED WATER SERVICE WITH CASING & METER BOX
- PROPOSED FIRE HYDRANT
- PROPOSED LINE STOP
- SIDEWALK/DRIVeway/CURB RESTORATION, CONCRETE
- LIMITS OF MILL & OVERLAY
- ASPHALT RESTORATION

SEE SHEET 3 FOR ADDITIONAL INFORMATION

R.J. = RESTRAIN JACKET

WATER MAIN

PROPOSED WATER SERVICE WITH CASING & METER BOX

PROPOSED FIRE HYDRANT

PROPOSED LINE STOP

SIDEWALK/DRIVeway/CURB RESTORATION, CONCRETE

LIMITS OF MILL & OVERLAY

ASPHALT RESTORATION

VERTICAL DATUM

ALL ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CONVERSION FACTOR: NAVD88 + 1.24 = NGVD29

KESHAVARZ & ASSOCIATES

Civil Engineers & Land Surveyors

711 North Dixie Highway, Suite 201

West Palm Beach, Florida 33401

Tel: (561) 446-4455

Certificate of Antiquities No. 4277

KAA PROJECT No. 17-1184

DESIGNED BY: R. WERTECKY

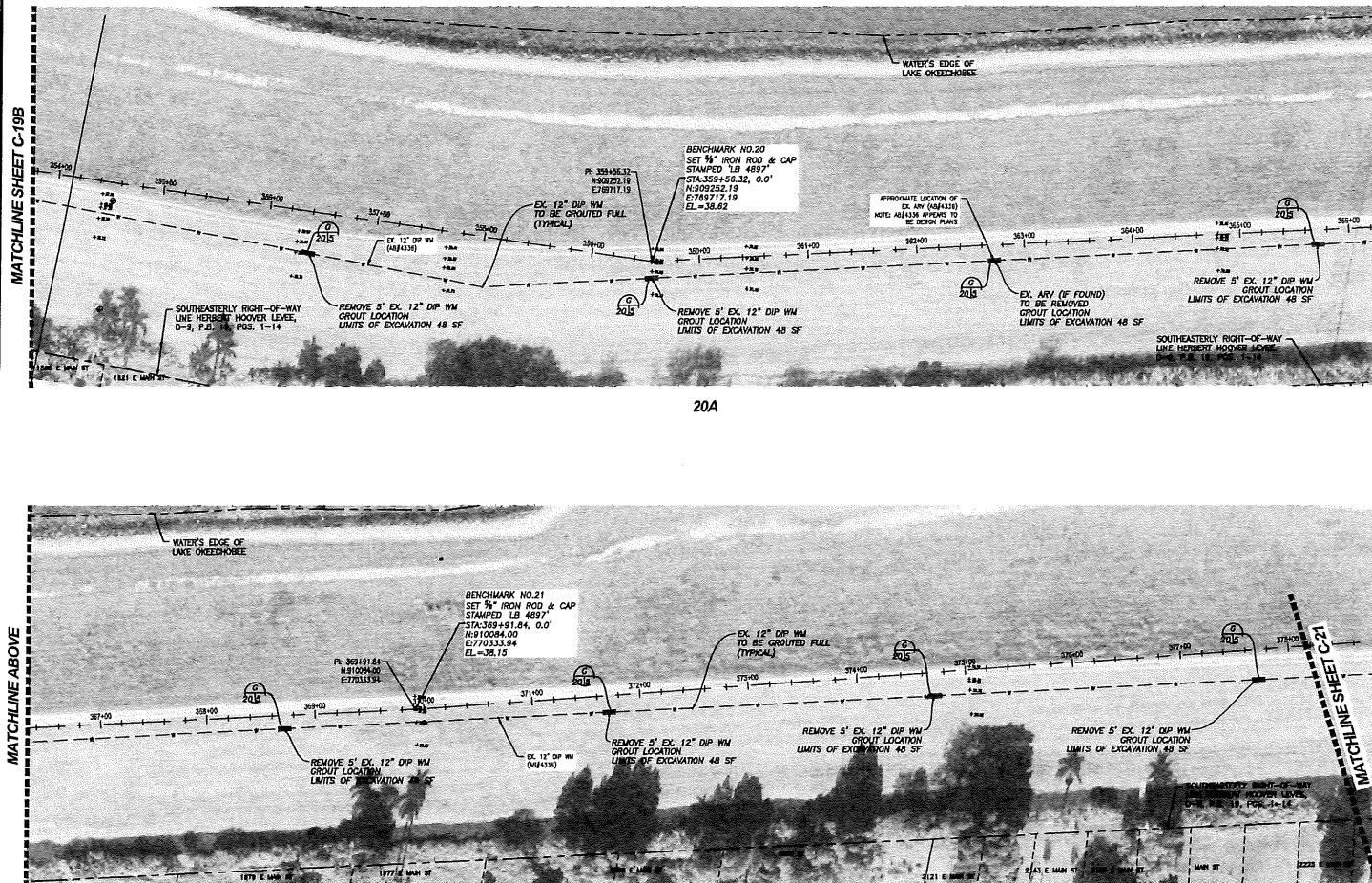
DRAWN BY: L. REILMAN

CHECKED BY: M. WILLIAMS

APPROVED BY: M. KESHAVARZ

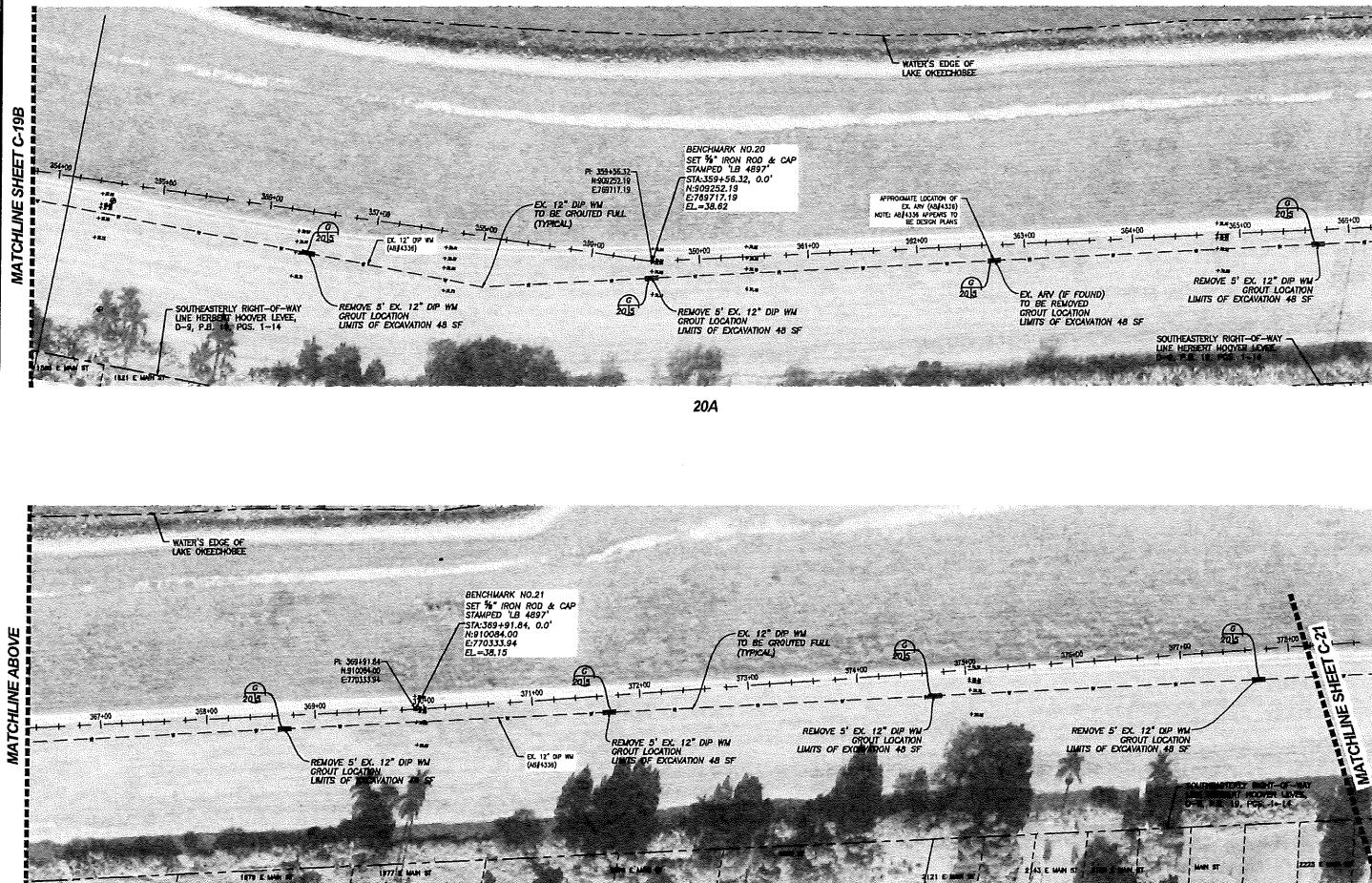
DATE: 10/14/19

100 SHEETS, 010 LAYOUT: C-20



201

MAN SHEETS.010 LAYOUT: C-20



201

WATER MAIN
GRAVITY SEWER
SEWER FORCE MAIN
STORM DRAINAGE
BURIED FPL
OVERHEAD FPL
BURIED ATT
BURIED FIBER OPTIC

— IRRIGATION
 - - - BURIED CABLE
 — RIGHT OF WAY
 — PROPERTY LINE
 — EASEMENT LINE
 LARD
 TELEVISION RISER
 LEGEND = BACKFILL

EXISTING		SEE SHEET 3 FOR ADDIT.	
CLEAN OUT	<input checked="" type="checkbox"/>	WATER METER BOX	<input type="checkbox"/> T
HAND POLE	<input checked="" type="checkbox"/>	WATER VALVE	<input type="checkbox"/> T
TRAFFIC SIGNAL	<input checked="" type="checkbox"/>	FIRE HYDRANT	<input type="checkbox"/> T
GRANITE SPICE BOX	<input checked="" type="checkbox"/>	WOOD LIGHT POLE	<input type="checkbox"/> T
LLOW PREVENTER	<input checked="" type="checkbox"/>	WOOD UTILITY POLE	<input type="checkbox"/> T

AL INFORMATION **R.A. = RESTRAIN JOINT**
PHONE SPICE BOX **WATER MAIN**
PHONE RISER
BOX
PHONE MANHOLE
HOLE
 **PROPOSED WATER SERVICE**
 **VM VERTICAL DEFLECTION**
 **WITH 2 BENDS**
 **SIDEWALK/DRIVEMAY/CURB**
RESTORATION CONCRETE

PROPOSED = WM REDUCER
 = PROPOSED WM GATE VALVE
 = PROPOSED FIRE HYDRANT
LS# = PROPOSED LINE STOP
 = LIMITS OF MILL & OVERLAY
 = ASPHALT RESTORATION

VERTICAL DATUM
ALL ELEVATIONS SHOWN ARE
NORTH AMERICAN VERTI-
CAL DATUM OF 1988 (NAVD88)
CONVERSION FACTOR:
NAVD88 + 1.24 = NGVD29

三

KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel. (561) 419-4494
Contractors to Developers, Inc., #1557

K&A PROJECT NO. 17-1184
DESIGNED BY: R. WERTEPNY
DRAWN BY: L. REIMANN
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 10/14/19

R
SHEET No.
C-20

PBCNUD No.
18-056

**N RELOCATION FROM THE
OVER DIKE (HHD) IN PAHOKEE
PLAN SHEET**

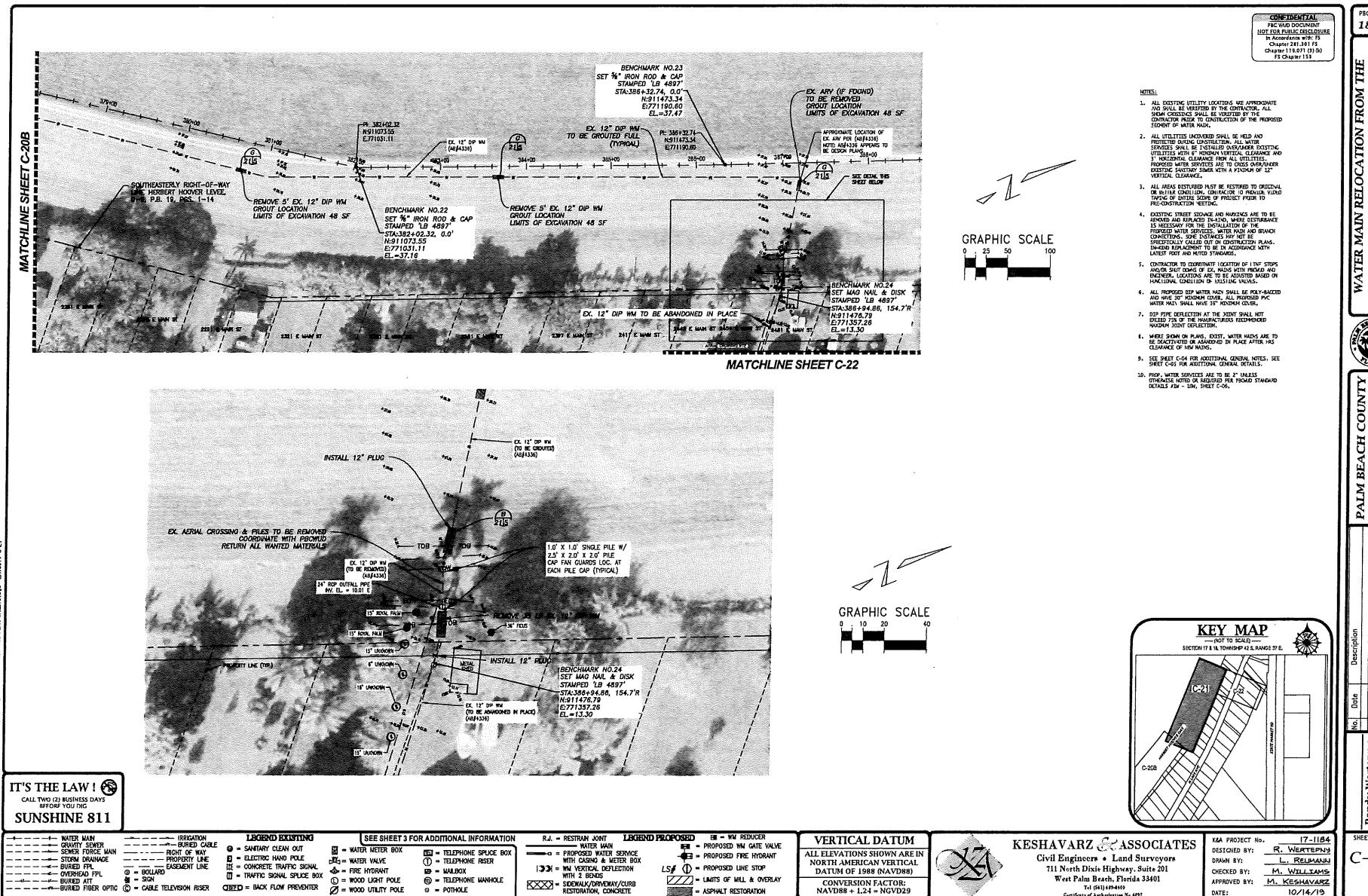
PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT

Candy Werstepny
P.E. 72504
Oct 14, 2019



Randy Wertepny
P.E. #72504
Oct 14, 2019

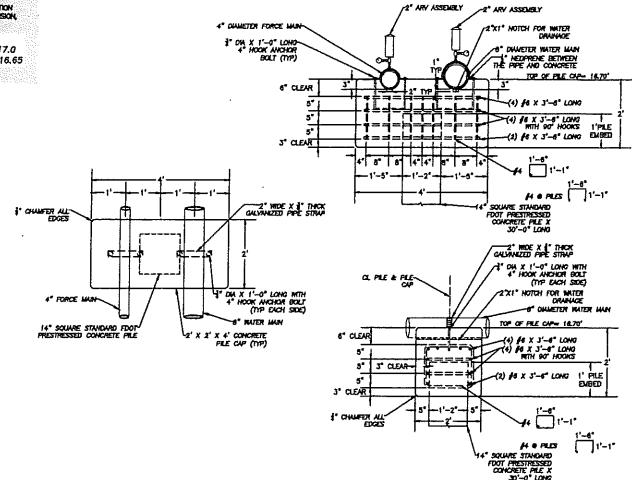
SHEET NO.
C-21



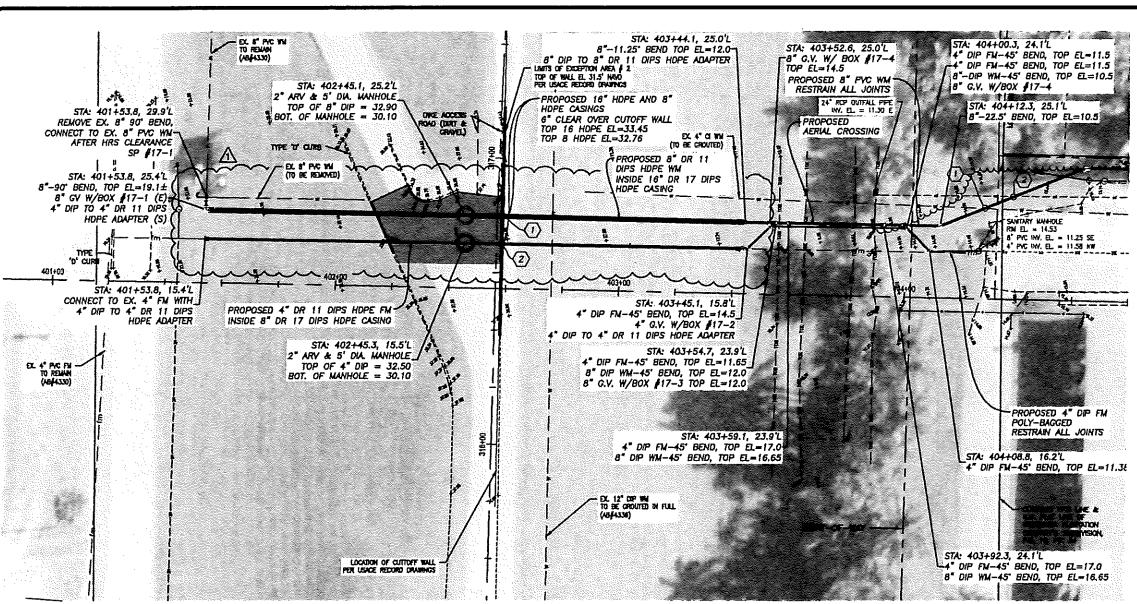
- NOTES:**
- 1. ABOVE GROUND PIPE SHALL BE SMOOTH, ROUND FLANGED GATES, THICKNESS CLASS 33.4 MIL, DIA. 4" IN. MAX.
 - 2. ALL UNDERGROUND PIPE AND FITTINGS SHALL BE DUCTILE IRON PIPE (DIP) WITH METALLIC COATING, THICKNESS CLASS 33.4 MIL, WITH CEMENT PIPE UNITS, THICKNESS CLASS 33.4 MIL, OR CONCRETE UNITS, THICKNESS CLASS 33.4 MIL, OF COVER MUST BE MAINTAINED.
 - 3. ALL BEARING PADS SHALL BE 3" THICK, PLAIN CONCRETE, WITH A MINIMUM SIDE CLEARANCE EQUAL TO THE PAD THICKNESS AND SHALL CONFORM TO THE LATEST F.G.O.T. STANDARD SPECIFICATION.
 - 4. CONTRACTOR TO REMOVE, COMPACT AND RESTORE ALL SOILS TO THE ORIGINAL GRADE. CONTRACTOR SHALL NOT USE EXCAVATION EQUIPMENT WHICH MAY DAMAGE EXISTING UTILITIES OR DAMAGE SOILS. CONTRACTOR SHALL NOT USE EXCAVATION EQUIPMENT WHICH MAY DAMAGE EXISTING UTILITIES OR DAMAGE SOILS. CONTRACTOR SHALL NOT USE EXCAVATION EQUIPMENT WHICH MAY DAMAGE EXISTING UTILITIES OR DAMAGE SOILS.
 - 5. CONTRACTOR TO ENSURE THAT ALL EXCAVATED SOILS ARE REMOVED FROM THE WORK AREA AND RELOCATED OVER EXISTING UTILITIES OR OTHER EXCAVATED AREAS.
 - 6. ALL UTILITIES LOCATED SHALL BE IDENTIFIED AND PROTECTED DURING EXCAVATION. CONTRACTOR SHALL NOT USE EXCAVATION EQUIPMENT WHICH MAY DAMAGE EXISTING UTILITIES OR DAMAGE SOILS.
 - 7. ALL UTILITIES LOCATED SHALL BE IDENTIFIED AND PROTECTED DURING EXCAVATION. CONTRACTOR SHALL NOT USE EXCAVATION EQUIPMENT WHICH MAY DAMAGE EXISTING UTILITIES OR DAMAGE SOILS.
 - 8. CONTRACTOR TO ENSURE THAT ALL EXCAVATED SOILS ARE REMOVED FROM THE WORK AREA AND RELOCATED OVER EXISTING UTILITIES OR OTHER EXCAVATED AREAS.
 - 9. CONTRACTOR TO ENSURE THAT ALL EXCAVATED SOILS ARE REMOVED FROM THE WORK AREA AND RELOCATED OVER EXISTING UTILITIES OR OTHER EXCAVATED AREAS.
 - 10. CONTRACTOR TO ENSURE THAT ALL EXCAVATED SOILS ARE REMOVED FROM THE WORK AREA AND RELOCATED OVER EXISTING UTILITIES OR OTHER EXCAVATED AREAS.
 - 11. CONTRACTOR TO ENSURE THAT ALL EXCAVATED SOILS ARE REMOVED FROM THE WORK AREA AND RELOCATED OVER EXISTING UTILITIES OR OTHER EXCAVATED AREAS.

GRAPHIC SCALE
0 10 20 40

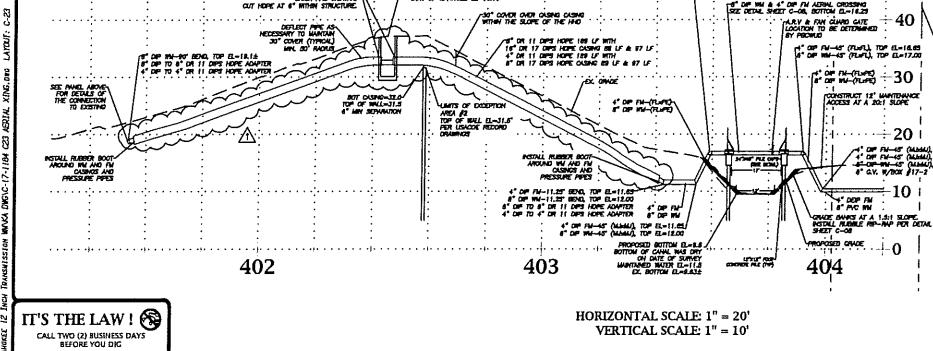
* SEE SHEET C-05 FOR
USEAGE UTILITY INSTALLATION
CROSS SECTION DETAIL



CONCRETE PIPE SUPPORT



8" WATER MAIN & 4" FORCE MAIN AERIAL CROSSING PLAN & PROFILE (LOOKING NORTH)



IT'S THE LAW!
CALL TWO 23 BUSINESS DAYS
BEFORE YOU DIG
SUNSHINE 811

Plot Date: Mar 02, 2020 TIME: 2:46pm 87° Temperature
Drawing ID: 17-184-123142511 XING_ave LAYER: C-23

LEGEND EXISTING		SEE SHEET 3 FOR ADDITIONAL INFORMATION		R.J. = RESTRAIN JOINT	LEGEND PROPOSED	VERTICAL DATUM
—	—	—	—	WATER MAIN	WATER MAIN	ALL ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
—	—	—	—	WATER SERVICE BOX	WATER SERVICE BOX	CONVERSION FACTOR: NAVD88 + 1.24 = NGVD29
—	—	—	—	ELECTRIC POLE	ELECTRIC POLE	
—	—	—	—	PHONE SPICE BOX	PHONE SPICE BOX	CERTIFICATE OF AUTHENTICATION (NAVD)
—	—	—	—	WATER VALVE	WATER VALVE	
—	—	—	—	PHONE RISER	PHONE RISER	
—	—	—	—	MANHOLE	MANHOLE	
—	—	—	—	WOOD LIGHT POLE	WOOD LIGHT POLE	
—	—	—	—	TELEPHONE MANHOLE	TELEPHONE MANHOLE	
—	—	—	—	POTHOLE	POTHOLE	
—	—	—	—	WOOD UTILITY POLE	WOOD UTILITY POLE	
—	—	—	—	SIDEWALK/DRIVEWAY/CURB RESTORATION, CONCRETE	SIDEWALK/DRIVEWAY/CURB RESTORATION, CONCRETE	
—	—	—	—	ASPHALT RESTORATION	ASPHALT RESTORATION	



KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel: (561) 344-3433
Certificate of Authorization (NAVD)

KAA PROJECT NO.: 17-1184
DESIGNED BY: R. WEIGERT/PJS
DRAWN BY: L. REILLY/MJ
CHECKED BY: M. WILLETT
APPROVED BY: M. KESHAVARZ
DATE: 05/02/20

PICARD No.
18-056

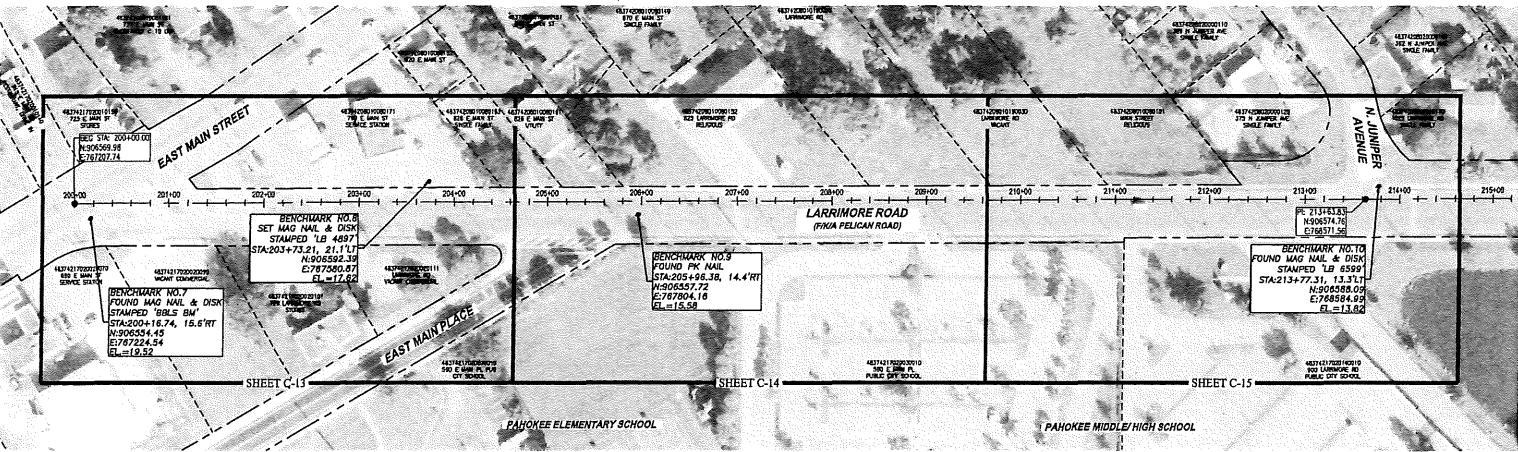
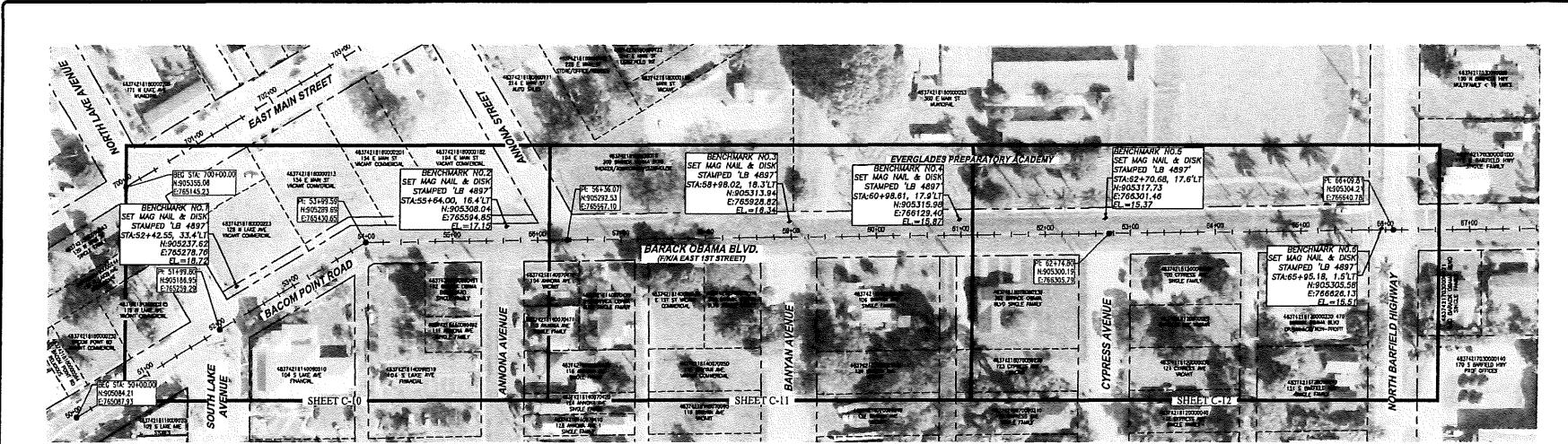
WATER MAIN RELOCATION FROM THE
HERBERT HOOVER DIKE (HHD) IN PAHOKEE
HORIZONTAL CONTROL PLAN



PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT

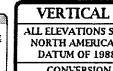
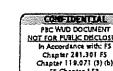
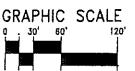
Randy Wertepy
P.E. 72504
Oct 14, 2019

SHEET No.
C-24



DATE: OCT 14, 2019 TIME: 11:16AM
BY: R. WERTEPY
DRAWING: PA-17-1184 SHEET: C-24
TRANSFERS: 1/2 INCH

SEE PLAN SHEETS C-18 THROUGH C-22 FOR HORIZONTAL
CONTROL INFORMATION ASSOCIATED WITH THOSE SHEETS



KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel (561) 674-4449
Certificate of Authorization #4397

17-1164
DESIGNED BY:
R. WERTEPY
L. REILMAN
DRAWN BY:
M. WILLIAMS
CHECKED BY:
M. KESHAVARZ
APPROVED BY:
M. KESHAVARZ
DATE:
10/14/19

PBWD No.
18-056

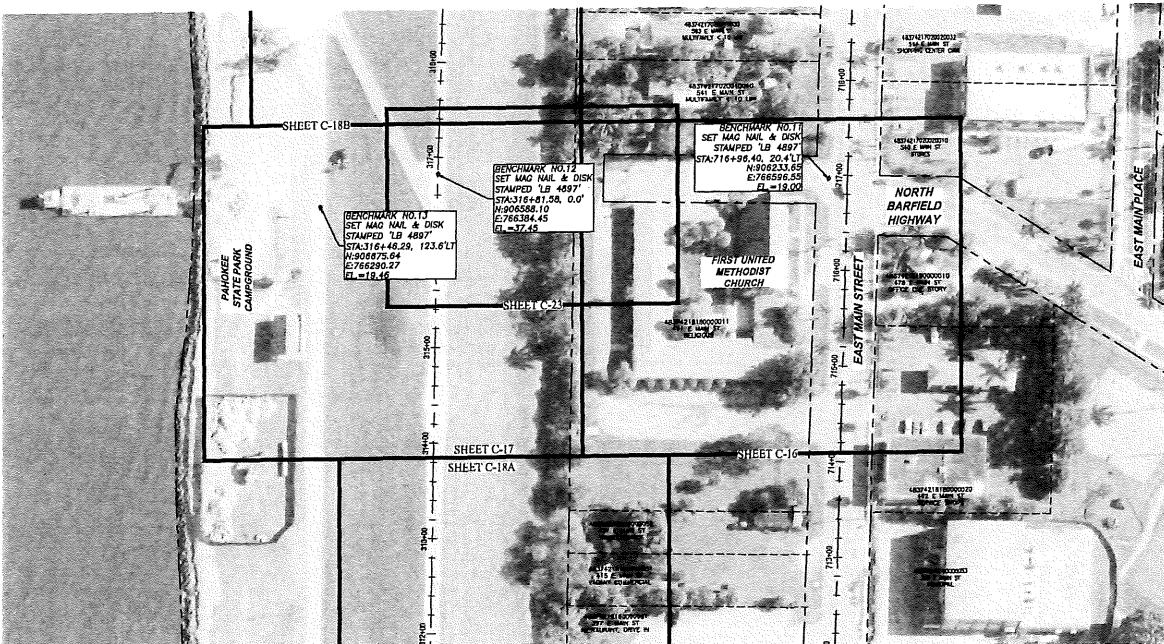
WATER MAIN RELOCATION FROM THE
HERBERT HOOVER DIKE (HHD) IN PAHOKEE
HORIZONTAL CONTROL PLAN



PALM BEACH COUNTY
WATER UTILITIES
DEPARTMENT

Randy Wernery
PE 77504
Oct 14, 2019

SHEET NO.
C-25



SEE PLAN SHEETS C-18 THROUGH C-22 FOR HORIZONTAL
CONTROL INFORMATION ASSOCIATED WITH THOSE SHEETS

PLAT DATE: OCT 14, 2019 TITLE: 171184 BY: R. WERNERY
DRAWING: PLT-171184-012 FOR: Pahokee, FL 33441
12' HIGH TOLERANCE: 1/2' HIGH TOLERANCE: 1/4' NAVD88 + L24 - 100' CHRLINE: 100'

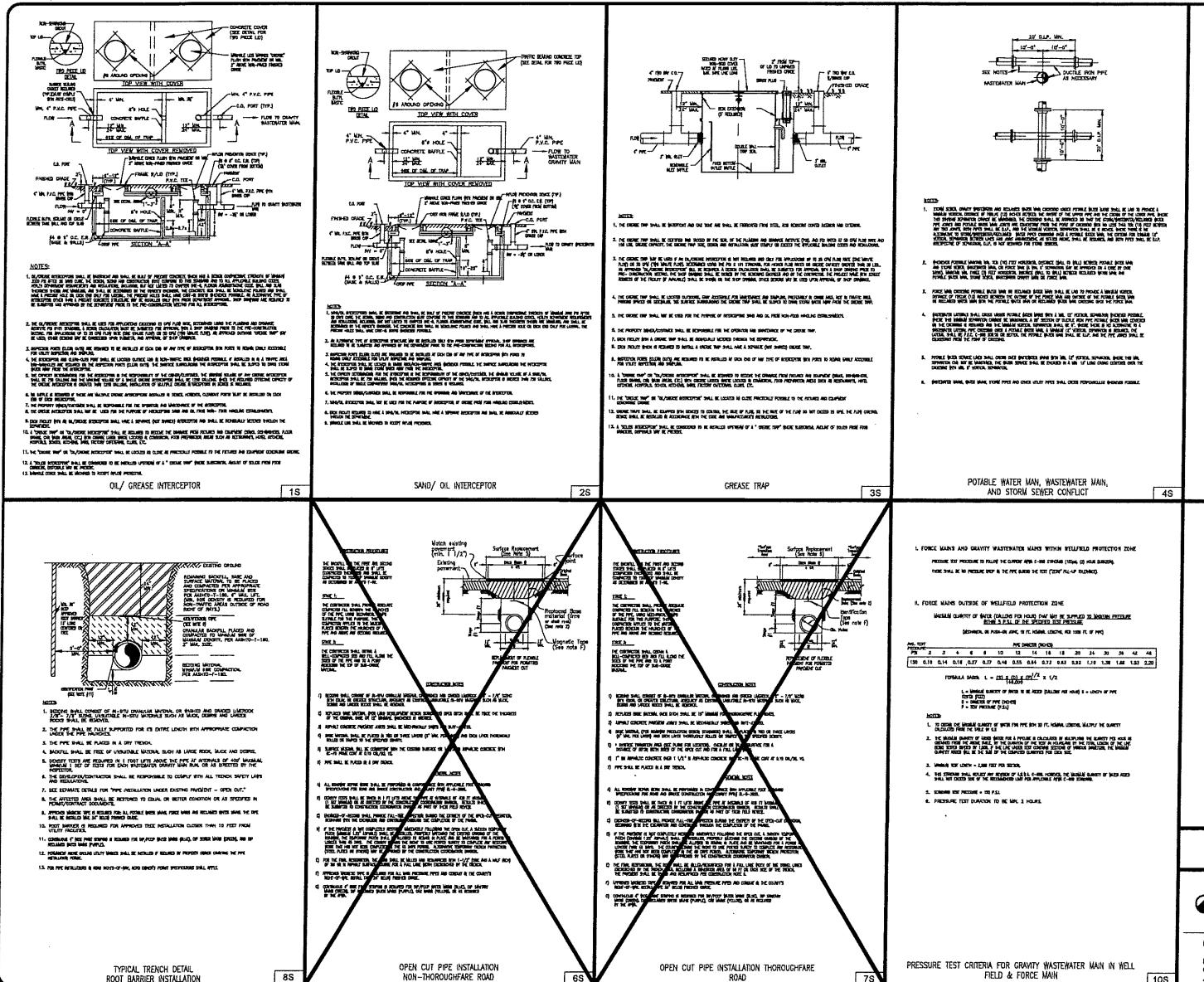
CONFIDENTIAL
FIC WWD DOCUMENT
NOT FOR CONSTRUCTION
In Accordance with F5
Chapter 281.191 F5
Chapter 281.192 F5
F5 Chapter 153

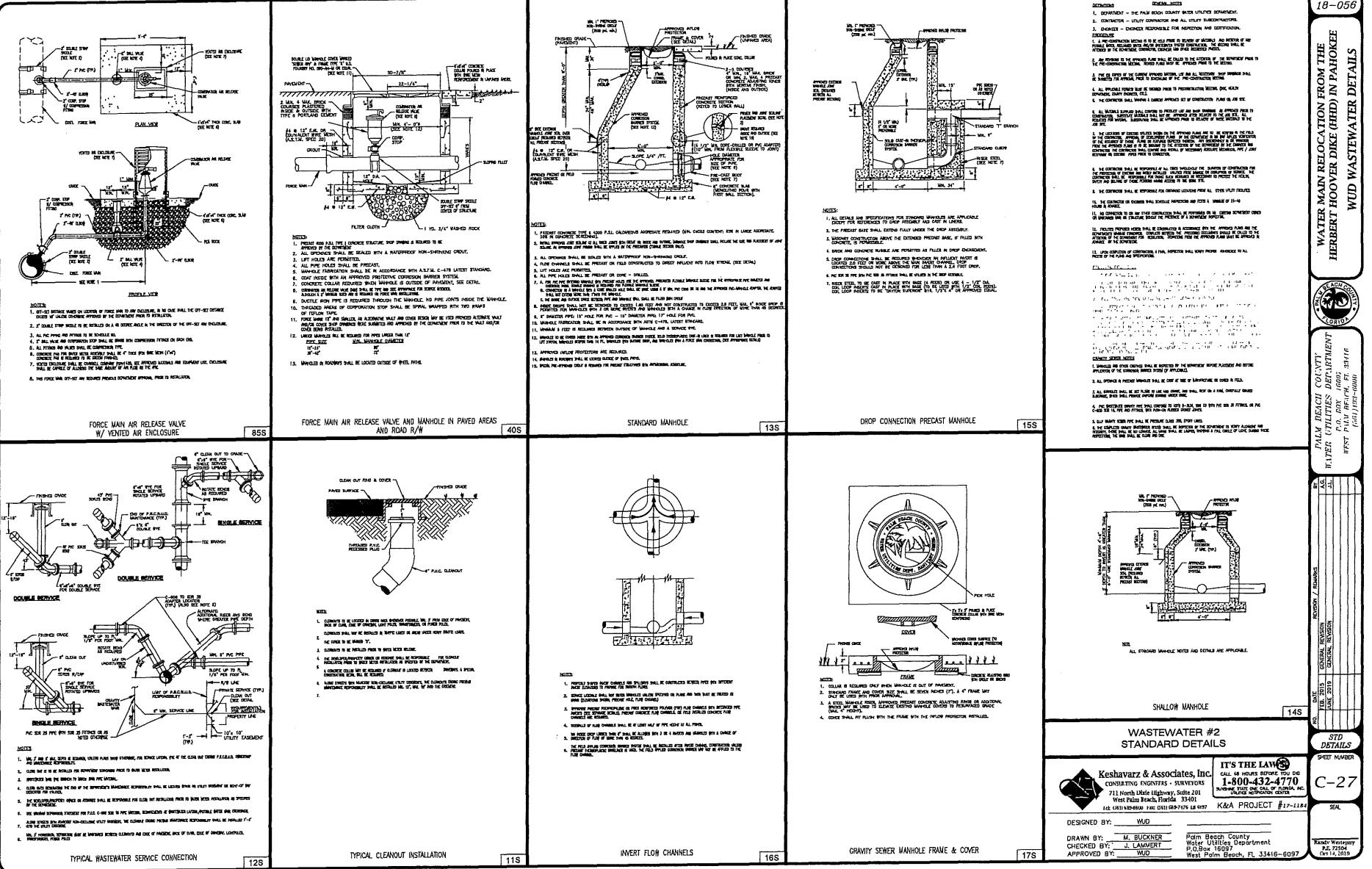
VERTICAL DATUM
ALL ELEVATIONS SHOWN ARE IN
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CONVERSION FACTOR:
NAVD88 + L24 = NGVD29



KESHAVARZ & ASSOCIATES
Civil Engineers • Land Surveyors
711 North Dixie Highway, Suite 201
West Palm Beach, Florida 33401
Tel: (800) 394-0499
Certificate of Authorization No. 4397

KIA PROJECT No.: 17-1184
DESIGNED BY: R. WERNERY
DRAWN BY: L. REIMANN
CHECKED BY: M. WILLIAMS
APPROVED BY: M. KESHAVARZ
DATE: 10/14/19

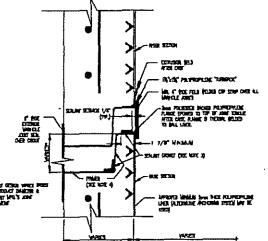






CORED HOLE W/FLEX. CONNECTOR & TURNBACK SLEEVE POLYPROPYLENE LINER SYSTEM CAST-IN

245



TURN BACK JOINT INSTALLED AFTER CAST

245

WASTEWATER #3
STANDARD DETAILSSTD
DETAILS

C-28

SHEET NUMBER

C-28

SEAL

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Call 1-800-432-4770
or write to:
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL QUALITY
111 North Miami Highway, Suite 201
West Palm Beach, Florida 33401
1st U.S. Mail Box 16097
FAX: (407) 983-1491
E-mail: 1-800-432-4770

K&A PROJECT #17-114

DESIGNED BY: VUD

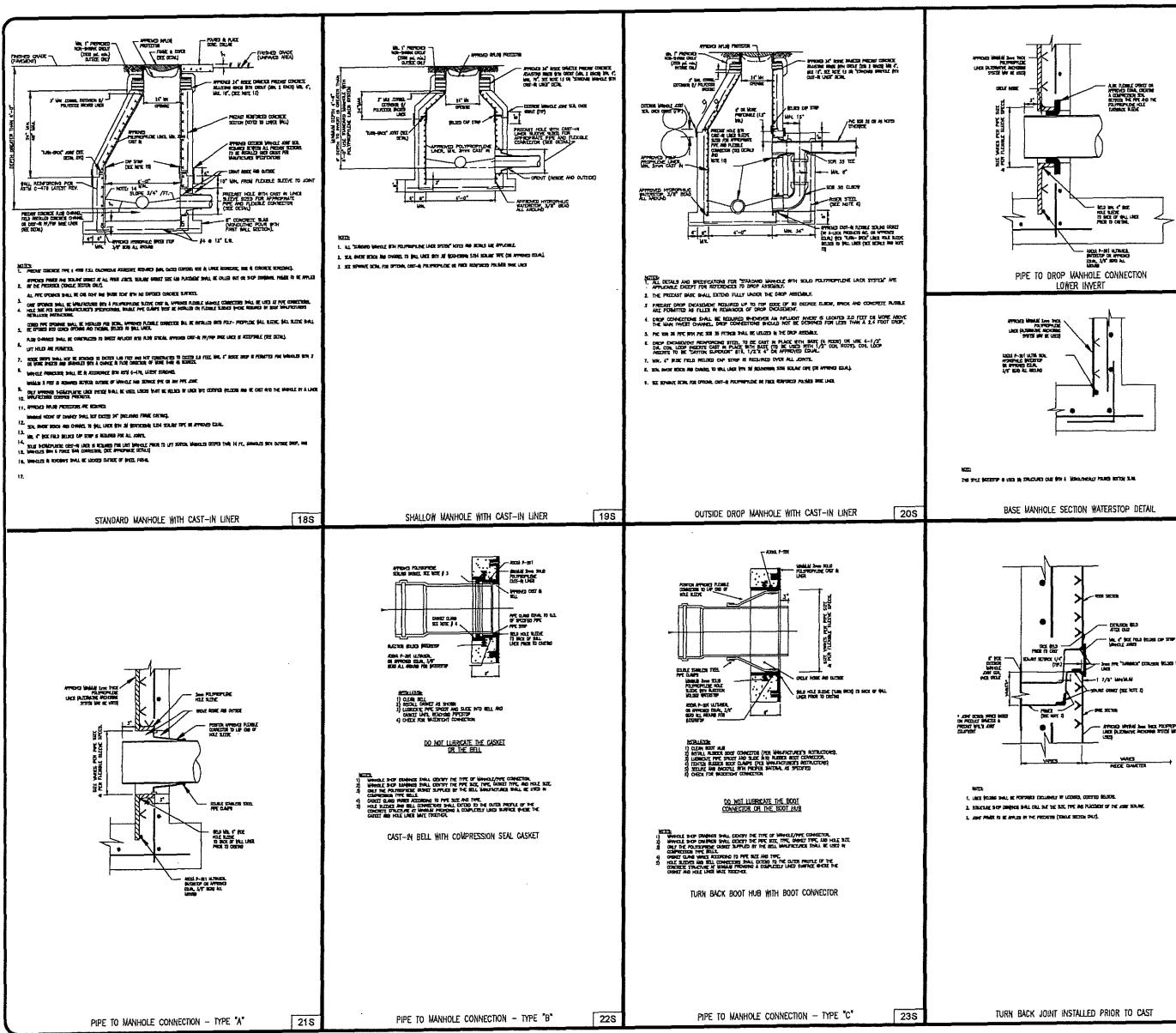
DRAWN BY: M. BUCKNER

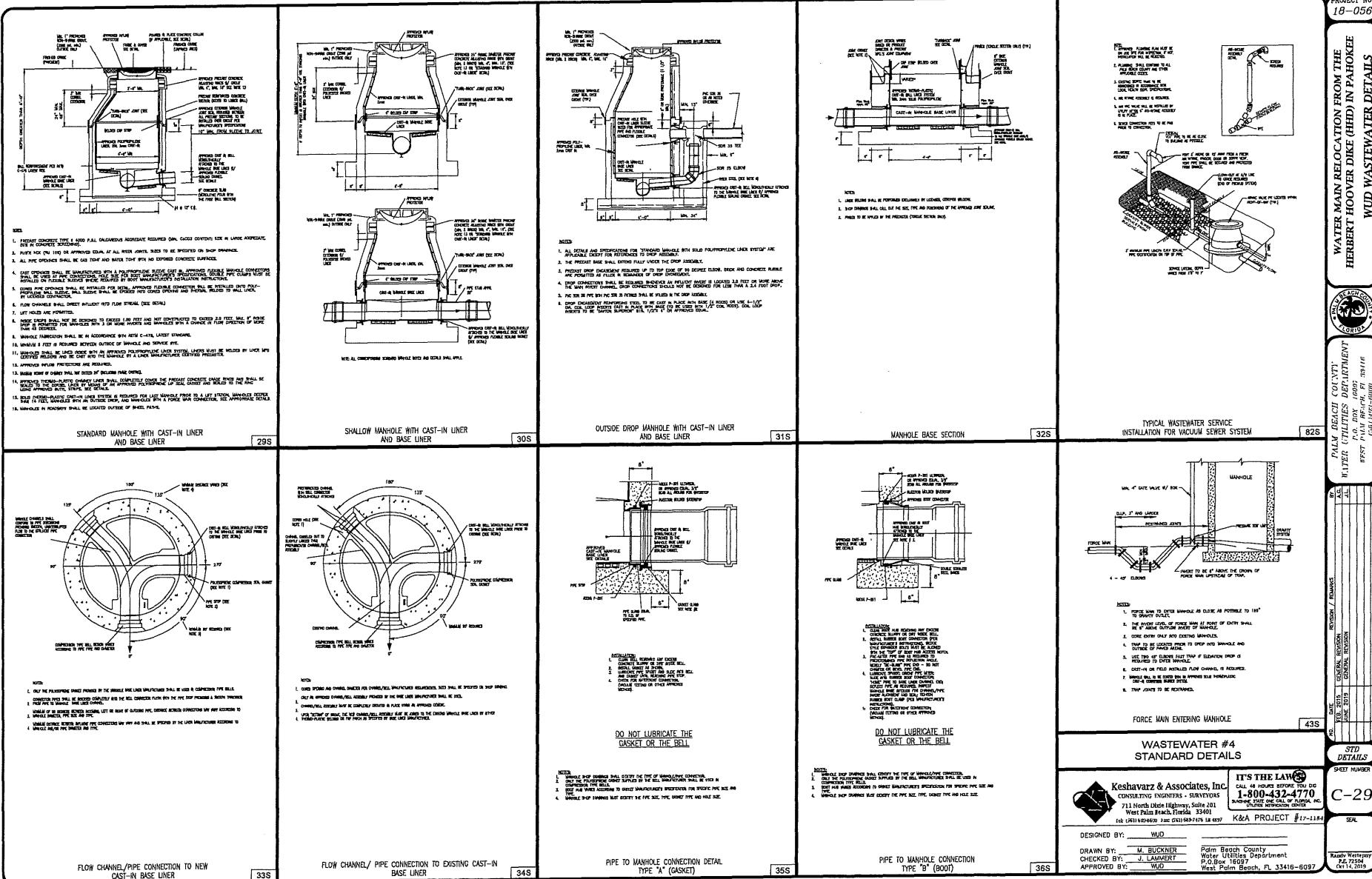
CHECKED BY: J. LAMBERT

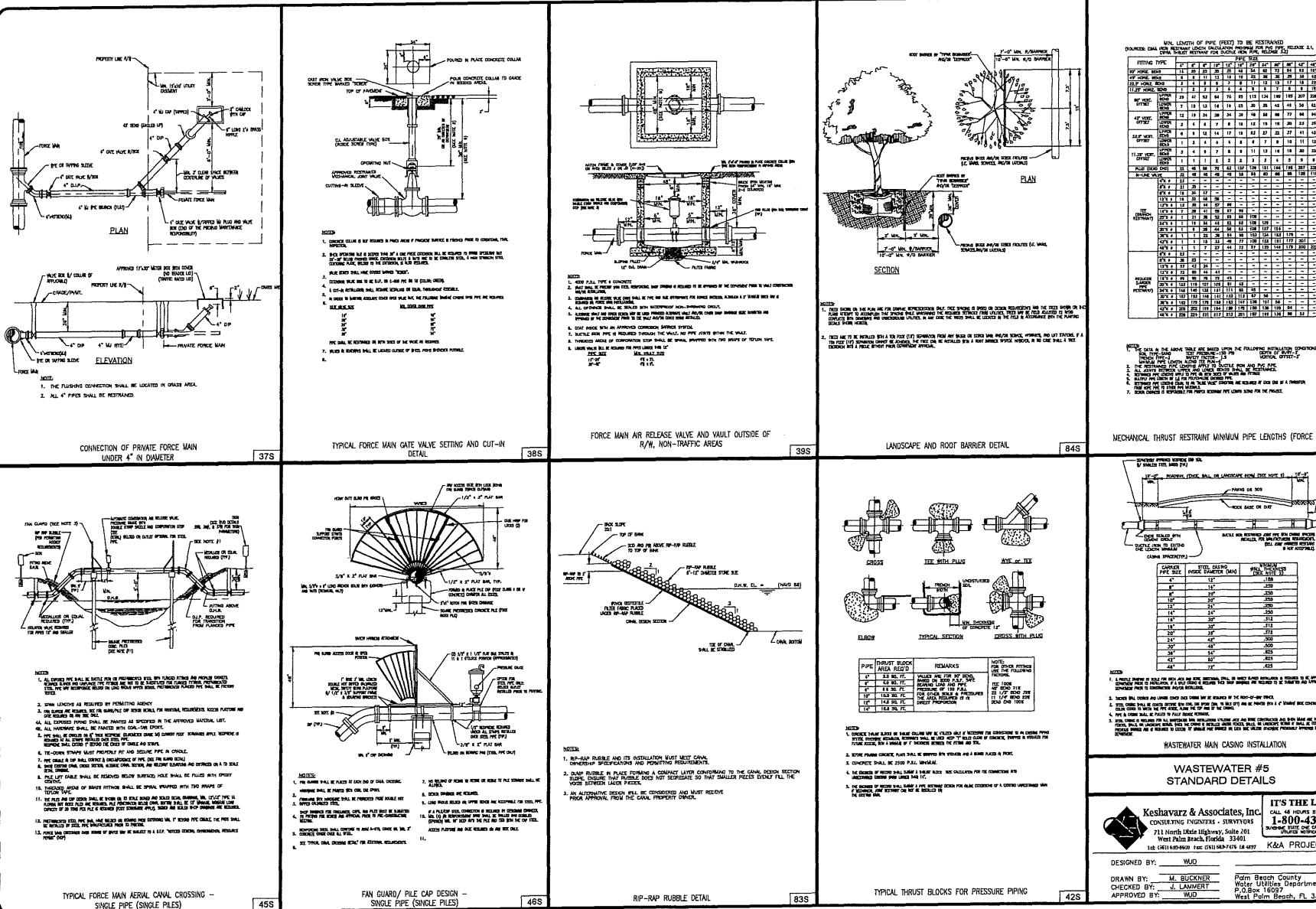
APPROVED BY: VUD

Randy Westcott
P.O. Box 16097
West Palm Beach, FL 33416-6097

FEB 11, 2010

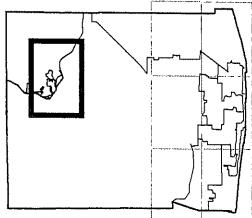
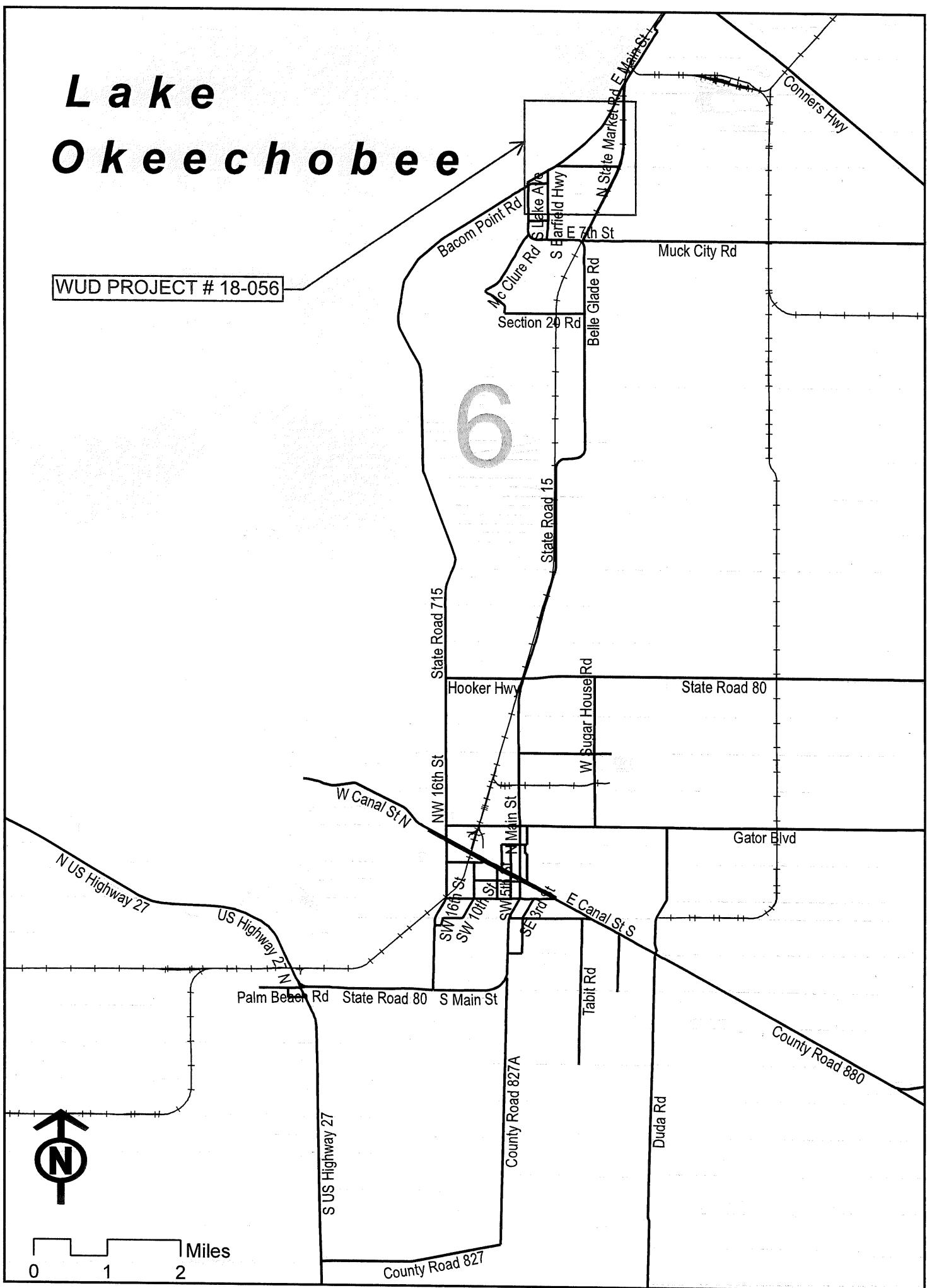






Project Location

AGENDA ITEM
ATTACHMENT 2
WUD PROJET No. 18-056



Location Sketch