

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

Consent No. DACW17-9-16-0163
Project: Intracoastal Waterway,
Jacksonville to Miami,
Broward County, Florida
Tract Nos. 1102 and 16400E

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 District Chief of Real Estate, Real Estate Contracting Officer, U.S. Army Corps of Engineers, Jacksonville District, hereinafter referred to as "said officer," and the **CITY OF FORT LAUDERDALE, FLORIDA** hereinafter referred to as the "Grantee":

WHEREAS, the Government has acquired a right-of-way easement over the above-numbered tracts of land, which easement, by its terms, reserves to the Government, in perpetuity, the right to use said easement for the construction, improvement, and maintenance of the Intracoastal Waterway, Jacksonville to Miami, Broward County, Florida; and

WHEREAS, the Grantee has requested permission to install, use, maintain, repair, remove, and replace a 20-inch diameter water main and 16-inch diameter wastewater force main in, on, across, over, and under a portion of the lands identified as Tract Nos. 1102 and 16400E, Section 12, Township 50 South, Range 42 East, Broward County, Florida. The area comprising 0.23 of an acre, more or less, is shown in red on Exhibit "A" attached hereto and made a part hereof.

NOW THEREFORE, this consent is granted and accepted under the following conditions:

1. 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.
2. That any proposed improvements or use authorized herein shall not be commenced until appropriate rights 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.

3. 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 has been revoked or modified.
4. 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 14 below.
5. 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.
6. 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.
7. 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 the Grantee's officers, agents, servants, or employees, or others who may be on said premises at the invitation of the Grantees 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.
8. 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 Grantees 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. That construction shall be in accordance with the drawings attached hereto and made a part hereof as Exhibit "B" and with Department of the Army Permit

No. SAJ-2016-00427, incorporated herein by reference. That no additional structures shall be constructed waterward of the Government's right-of-way line and that any structures currently within the right-of-way must be removed by the Grantee, at Grantee's expense, if future needs of the Government so require.

15. 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 _____, 2016.

UNITED STATES OF AMERICA

BY: _____
AUDREY C. ORMEROD
District Chief of Real Estate
Real Estate Contracting Officer
U.S. Army Engineer District
Jacksonville, Florida

AGREED TO AND ACCEPTED

WITNESS:

CITY OF FORT LAUDERDALE, FLORIDA,
a municipal corporation of the State of
Florida

[Witness print or type name]

By: _____
John P. "Jack" Seiler, Mayor

[Witness print or type name]

Lee R. Feldman, City Manager

ATTEST:

Jeffrey A. Modarelli, City Clerk

APPROVED AS TO FORM:
Cynthia A. Everett, City Attorney

By: _____
Robert B. Dunckel
Assistant City Attorney



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



PORT EVERGLADES QUADRANGLE
FLORIDA-BROWARD CO.
7.5-MINUTE SERIES

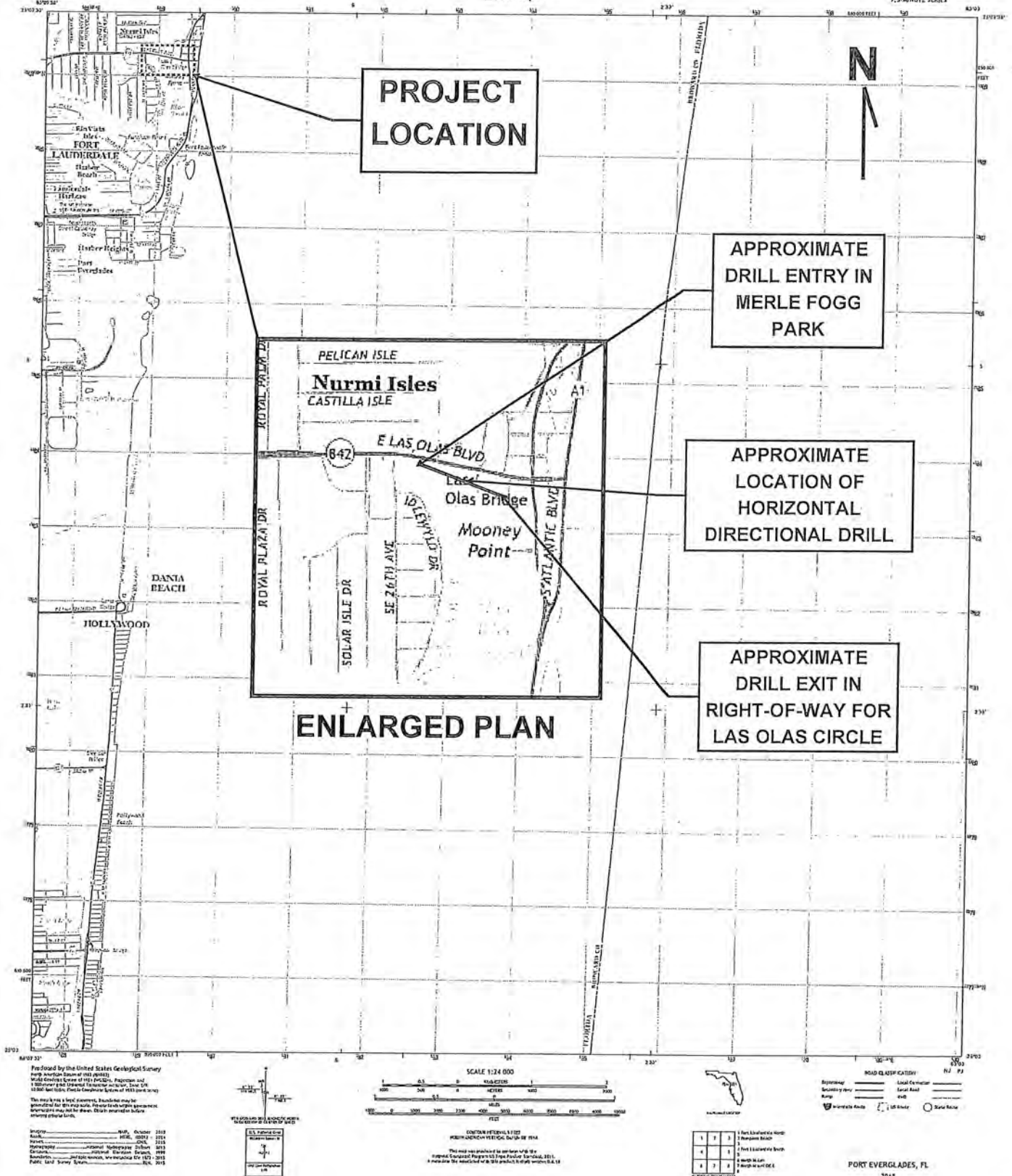
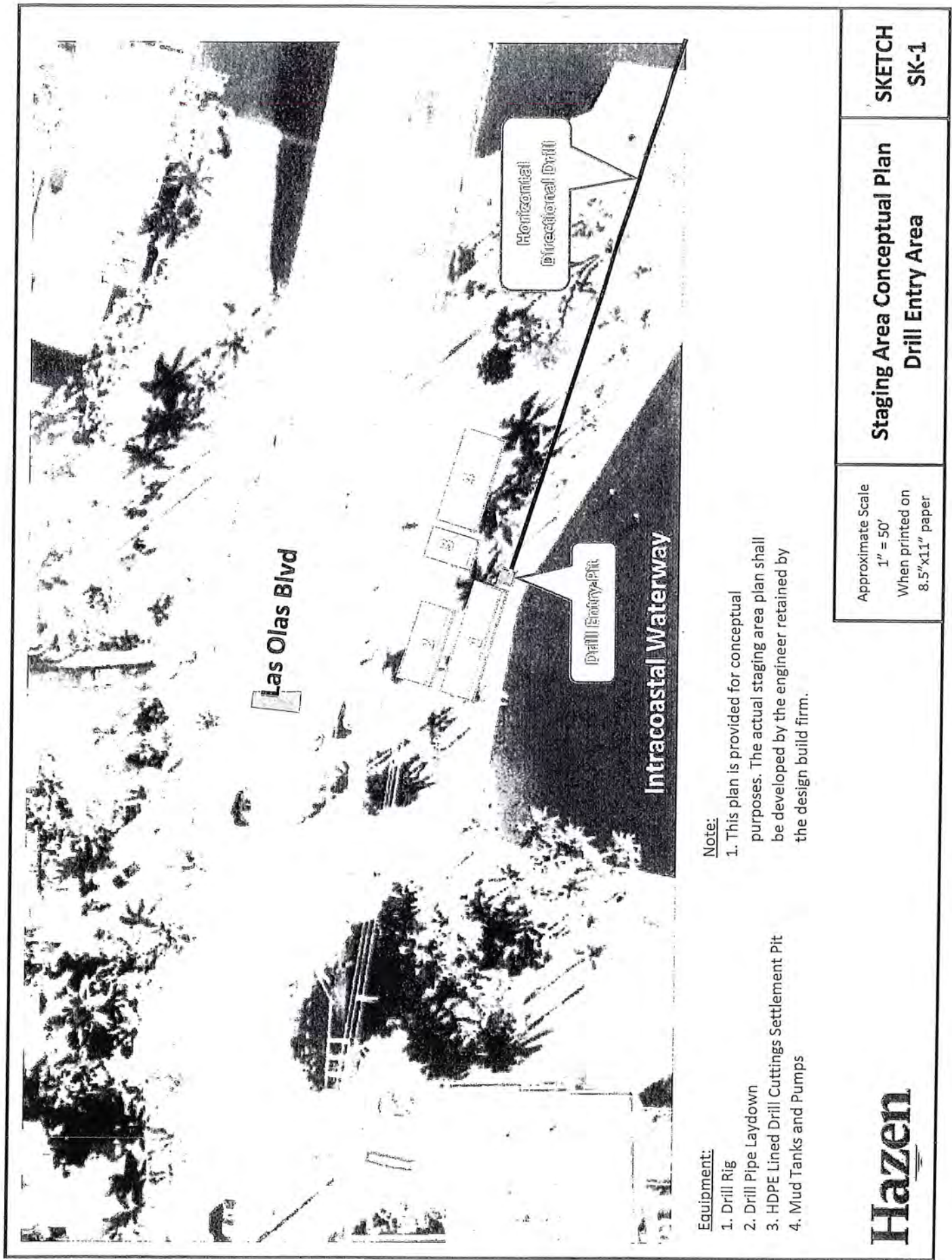


EXHIBIT "B"

CAM #16-1047

Exhibit 1

7 of 24



Equipment:

1. Drill Rig
2. Drill Pipe Laydown
3. HDPE Lined Drill Cuttings Settlement Pit
4. Mud Tanks and Pumps

Note:

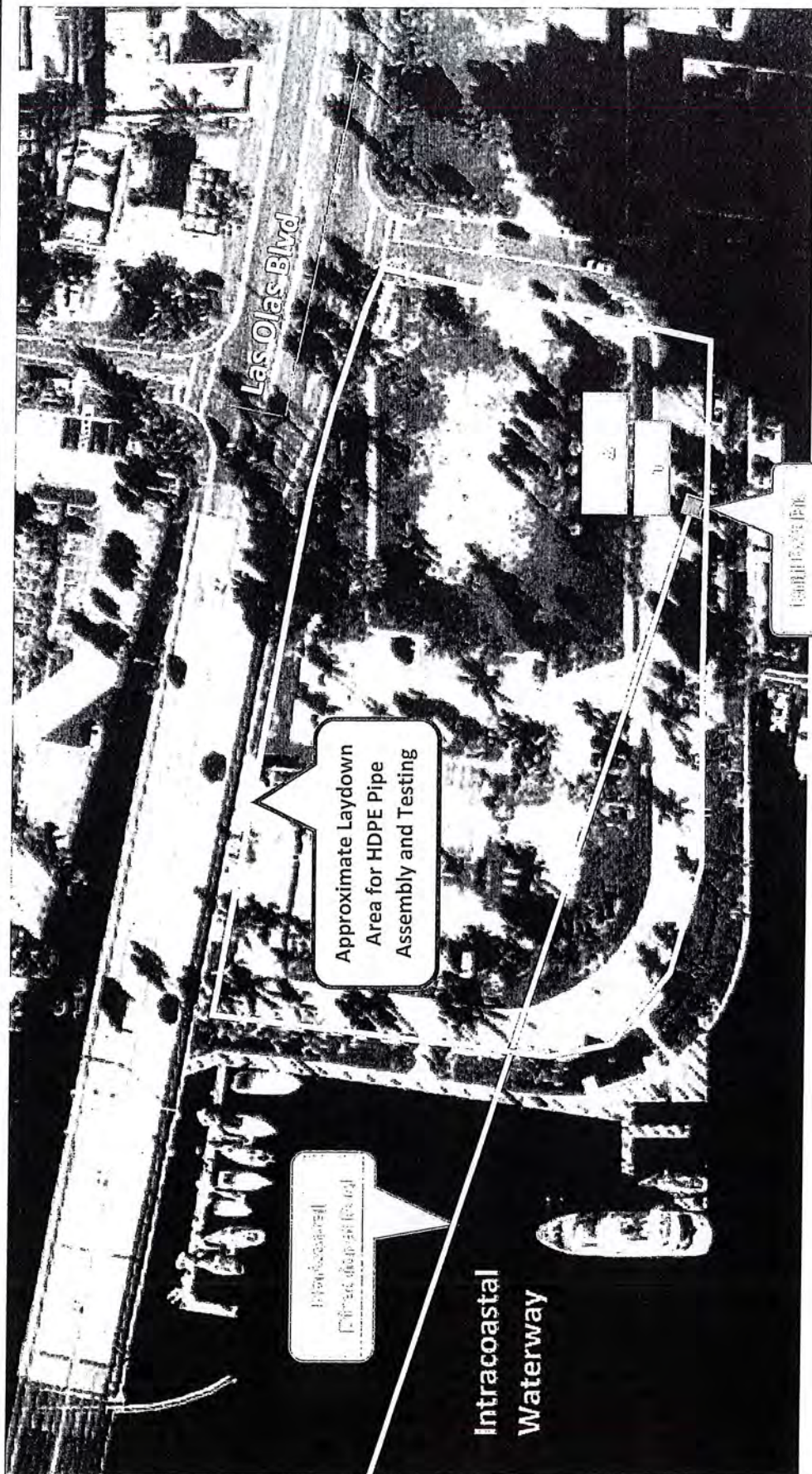
1. This plan is provided for conceptual purposes. The actual staging area plan shall be developed by the engineer retained by the design build firm.

Hazen

**SKETCH
SK-1**

**Staging Area Conceptual Plan
Drill Entry Area**

Approximate Scale
1" = 50'
When printed on
8.5"x11" paper



Intracoastal
Waterway

Las Olas Blvd

Approximate Laydown
Area for HDPE Pipe
Assembly and Testing

Drill Exit Pit

Drill Exit Pit

Equipment:

1. Drill Pipe Laydown
2. HDPE Lined Drill Cuttings Holding Pit

Note:

1. This plan is provided for conceptual purposes. The actual staging area plan shall be developed by the engineer retained by the design build firm.

Hazen

**SKETCH
SK-2**

**Staging Area Conceptual Plan
Drill Exit Area**

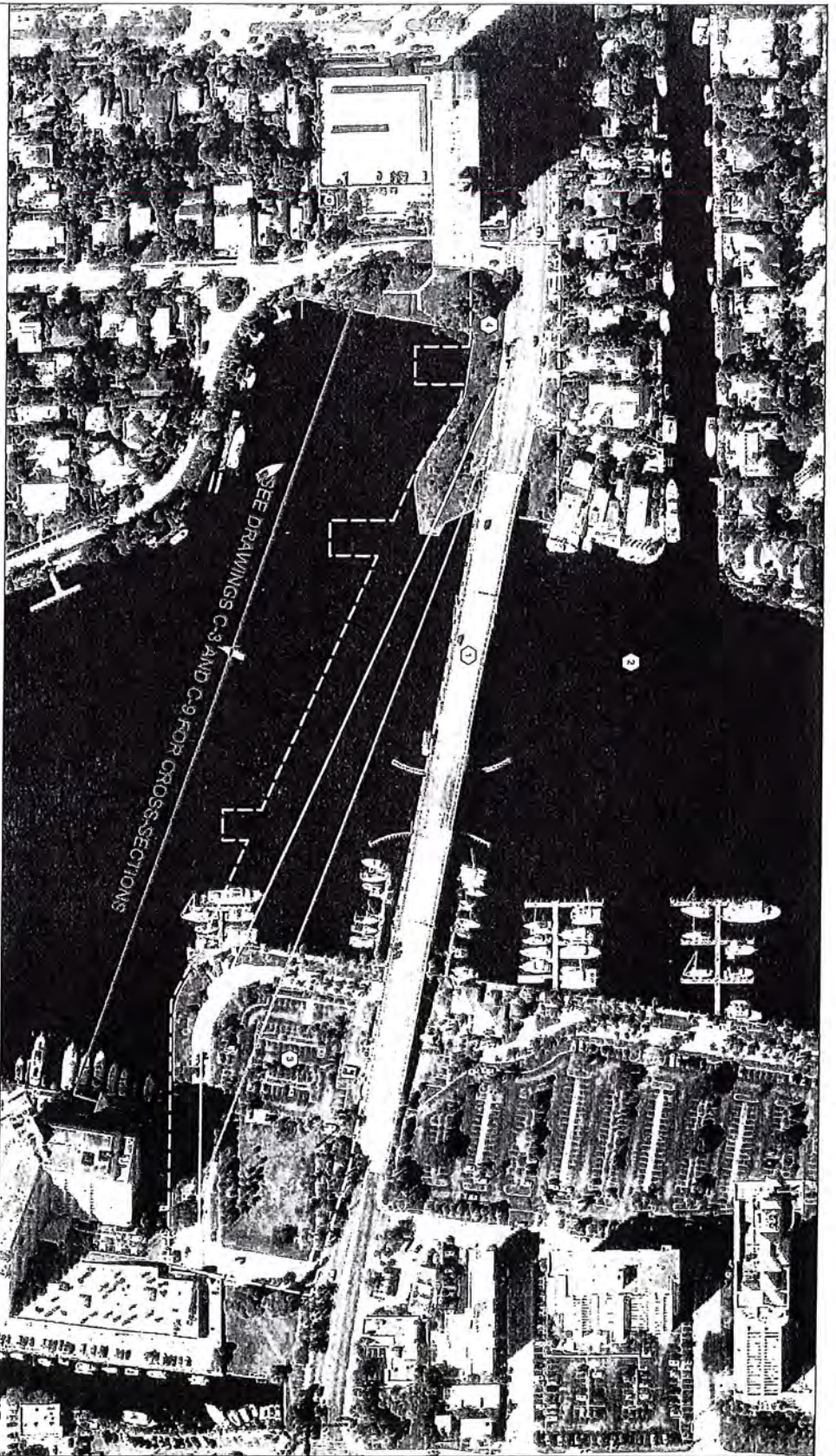
Approximate Scale
1" = 65'
When printed on
8.5"x11" paper

EXHIBIT "B"

CAN# 10478

Exhibit 1

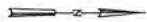
9 of 24



Location Information:
 Township: 50S
 Range: 42E
 Section: 12

City of Fort Lauderdale
 Water Main Relocation and
 New Wastewater Force Main at Las Olas Blvd

HDD CONCEPTUAL PLAN
 Sketch 3



Hazen
 4650 HOLLYWOOD BLVD, SUITE 2000
 HOLLYWOOD, FLORIDA 33021
 CERTIFICATE OF AUTHORIZATION NO. 17771

EXHIBIT "B"
 40F18

CAM #16-1047

Exhibit 1

10 of 24

KEY NOTES

1. 12" HDPE pipe, 100' length
2. 12" HDPE pipe, 100' length
3. 12" HDPE pipe, 100' length
4. 12" HDPE pipe, 100' length

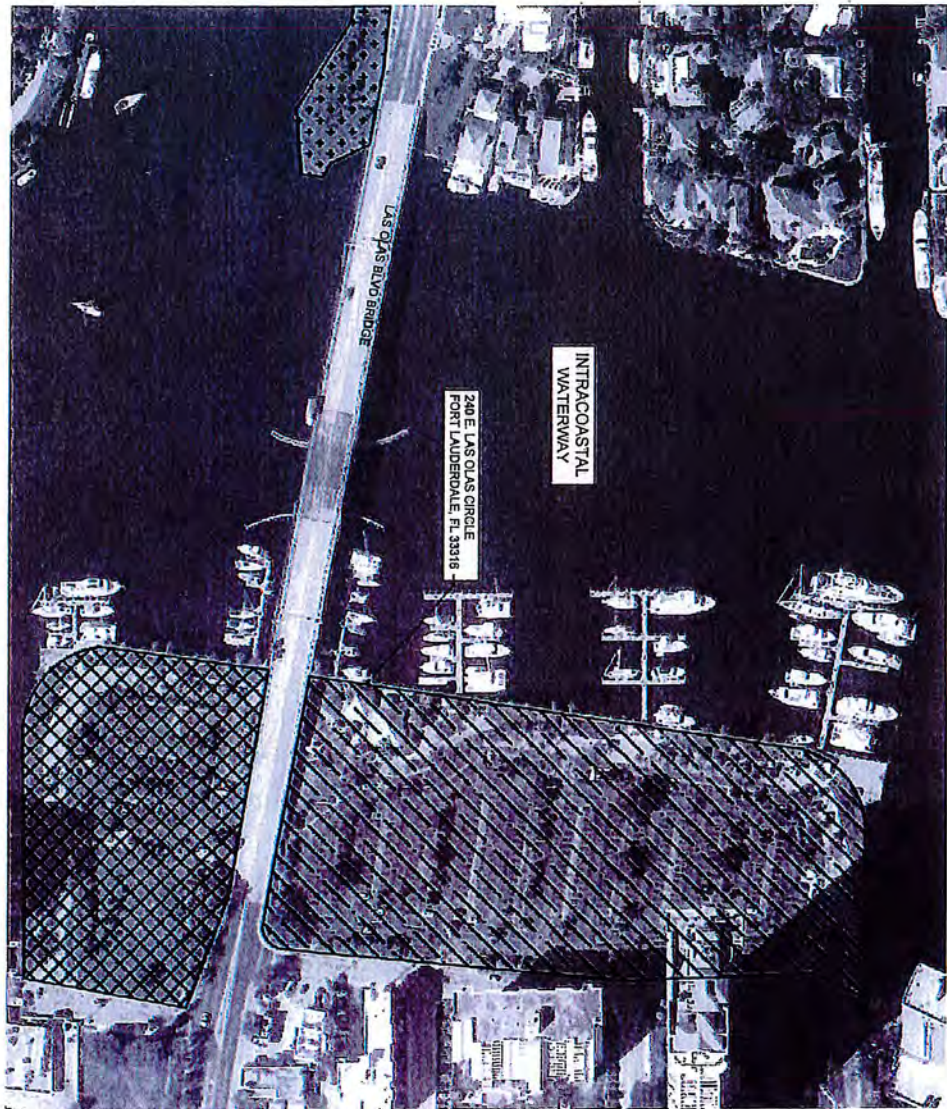
LEGEND

- 12" HDPE pipe, 100' length
- 12" HDPE pipe, 100' length
- 12" HDPE pipe, 100' length
- 12" HDPE pipe, 100' length

Hazen
 ANDERSON
 1000 N. W. 10th Ave.
 Fort Lauderdale, FL 33304
 954.575.1111
 www.hazenanderson.com



STAGING PLAN
 NTS



LOCATION INFORMATION:

TOWNSHIP: 50 S
 RANGE: 42 E
 SECTION: 12
 LATITUDE: 26° 07' N
 LONGITUDE: 80° 06' 29" W

KEYED NOTES:

- 1 THE AREA INDICATED IS OWNED BY THE CITY OF FORT LAUDERDALE. CITY OF FORT LAUDERDALE IS THE OWNER OF THE AREA. A COPY OF DESIGN DRAWINGS SHALL BE PROVIDED TO THE OWNER. A CONSTRUCTION SCHEDULE FOR PROJECT NO. 12196 UPON REQUEST.
- 2 THE AREA INDICATED IS OWNED BY THE CITY OF FORT LAUDERDALE. THIS AREA CAN BE USED FOR STAGING THE PIPE FOR WELDING AND THE MILL BACK OF THE SUBGRADE PAVING.
- 3 THE AREA INDICATED IS OWNED BY THE CITY OF FORT LAUDERDALE. THIS AREA CAN BE USED FOR STAGING OF THE DIRECTIONAL DRILLING EQUIPMENT.

LEGEND:

- AREA FOR CITY PROJECT No. 11800
- AREA FOR CITY PROJECT No. 11800 AND 2
- AREA FOR CITY PROJECT No. 12196
- AREA FOR CITY PROJECT No. 12196



NOT FOR CONSTRUCTION OR BID

| | | | | | |
|--|--|-------------|--------------------|-----------|-------------|
| PROJECT # 12196 RELOCATION OF EX. 16" WM & INSTALLATION OF 16" FM RELOCATION OF 16" WATER MAIN E. LAS OLAS BLVD. | SHEET NO. G-1 OF 1 | TOTAL 13 | DATE 12/16/2011 | BY JTB | DESCRIPTION |
|--|--|-------------|--------------------|-----------|-------------|

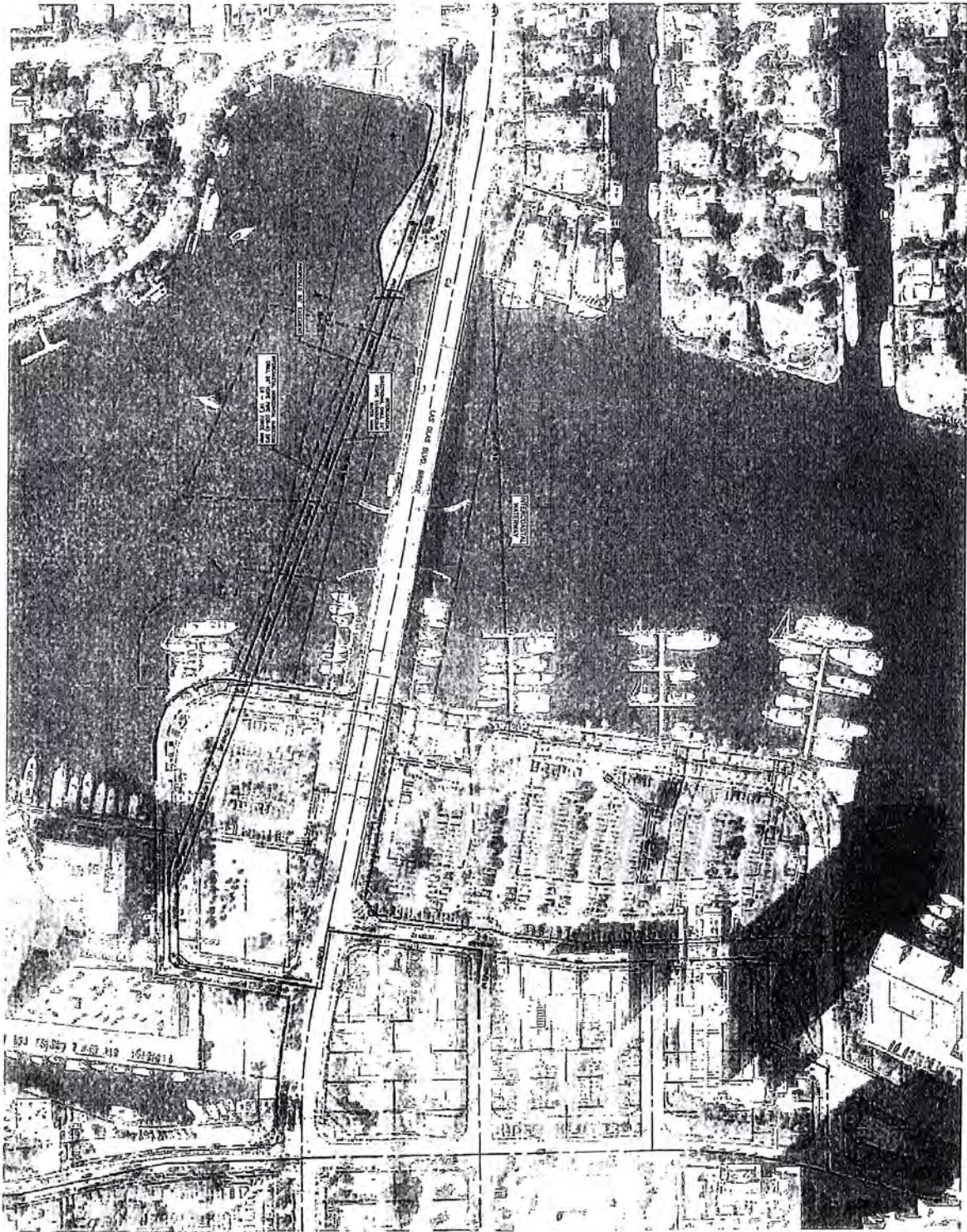
| REVISIONS | | |
|-----------|------|-------------|
| NO | DATE | DESCRIPTION |
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CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| | |
|-------------------|------------------|
| DRAWN BY LMS | DATE 02/20/16 |
| CHECKED BY PJC | SCALE NTS |
| FIELD BOOK N/A | |

EXHIBIT "B"
60F18
 CAM #16-1047
 Exhibit 1
 12 of 24



NOTE:
THE PURPOSE OF THIS SHEET
IS TO PROVIDE AN OVERALL
CONCEPTUAL PLAN OF THE
PROPOSED WORK AND
WATER MAIN DIRECTION
DILLS.



NOT FOR CONSTRUCTION OR BID

| | |
|-----------|----------|
| SHEET NO. | C-1 |
| TOTAL | 12 |
| DATE | 12/19/01 |
| BY | 4-123-11 |

PROJECT # 12196
RELOCATION OF EX. 16" WM
& INSTALLATION OF 16" FM
OVERALL PLAN
E. LAS OLAS BLVD.

| REVISIONS | | | | |
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| NO. | DATE | BY | CHKD | DESCRIPTION |
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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| DRAWN BY: | DATE: | DESIGNED BY: | SCALE: | CHECKED BY: | FIELD BOOK: |
| | MM/DD/YY | | 1"=60' | | |

EXHIBIT 18
70F18

2 SEE GEOTECHNICAL BORING REPORT (TYP.)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

www.callsunshine.com

| | |
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| PROJECT # 12196 RELOCATION OF EX. 16" WM & INSTALLATION OF 16" FM RELOCATION OF 16" WATER MAIN E. LAS OLAS BLVD. | |
| SHEET NO. | OF |
| C-2 | 3 |
| TOTAL | 13 |
| CAD TITLE 12196-002-WM-FM | |
| DRAWING TITLE NO. 4-131-41 | |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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| DRAWN BY: JMS | DATE: 02/20/1 |
| DESIGNED BY: GAB | SCALE: 1"=50' |
| CHECKED BY: PJC | |
| FIELD BOOK: | |

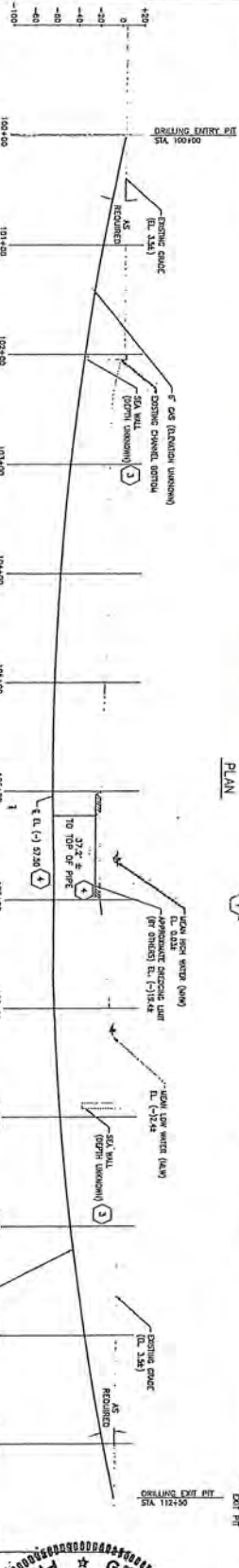
ENGINEER,
GEORGE A. BROWN, PE
REG. NO. 80078
DATE 2/4/18

EX

TEL: 854-907-0000

EXHIBIT 65 B

CAM #16-1047
Exhibit 1
14 of 24



Hazen
SOUTH AND SOUTHWEST
SUNSHINE BUILDING, 500 N. 1ST
SOUTH, DENVER, COLORADO 80202
CLARENCE R. HAZEN, PRESIDENT AND CEO

- 5) The Package is to be sealed, sealed and the bottom side of the top cover and bottom shell, together with the bottom shell, are to be sealed. The package is placed into the box and accepted by the carrier.
- 6) The package is to be sealed and the bottom side of the top cover and bottom shell, together with the bottom shell, are to be sealed. The package is placed into the box and accepted by the carrier.
- 7) The package is to be sealed and the bottom side of the top cover and bottom shell, together with the bottom shell, are to be sealed. The package is placed into the box and accepted by the carrier.

- 1) DISSE SEASPACE INFO "MALPHEA, JONSON" SEE ELECTRIC SURVEY REPORT
 - 2) SEC COTECNOICAL BEING REPORT (TYP.)
 - 3) NO RECORD DRAWING DATA ON EXISTING SEAWALLS AREA AVAILABLE FROM THE CITY.
- ALIGNMENT DEPTH SHOWN IS FOR CONCEPTUAL PURPOSES. THE ACTUAL ALIGNMENT DEPTH SHALL BE SELECTED BY THE DESIGN BOLD RY'S ENGINEER. THE DEPTH SHALL BE 25 FEET BELOW THE DESIGN BOTTOM OF THE INTRACASTLE WATERWAY NAVIGATION CHANNEL. (ESTIMATED AT CL. -19.42 NAV 89)

LEGEND:

EXISTING

APPROX. ALIGNMENT
OF PROPOSED HDD
APPROX. CHANNEL
BOTTOM ELEVATION

NOT FOR CONSTRUCTION OR BIDDING

[illegible]

| | | | | |
|---|---|---------------------------|--------------------------|--|
|  | CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE | DRAWN BY: _____ CPB | DATE: 02/20/16 | ENGINEER: GEORGE A. BROWN, PE REG. NO. 50578 SEAL 3/6/16 |
| | | DESIGNED BY: _____ CAB | SCALE: 1"=50'-0" | |
| 100 North Andrews Avenue, Fort Lauderdale, Florida 33301 | | CHECKED BY: _____ PJG | FIELD BOOK: _____ N/A | TEL: 954-571-3000 FAX: _____ |

HAZEN

HAZEN & SAWYER
CONSULTANTS, INC.
10000 W. BOULEVARD, SUITE 100
FORT LAUDERDALE, FL 33301
(954) 471-1100

HAZEN & SAWYER
ALWAYS CALL 811
BEFORE YOU DIG
to find if there is a line
www.hazensawyer.com

GENERAL NOTES FOR WATER PIPELINE

- 1) ALL ELEVATIONS ARE IN MORGAN.
- 2) THE DESIGN LOCATIONS, DEPT. AND FITTINGS MAY VARY FROM THE INFORMATION PROVIDED BY THE CITY.
- 3) RESTRAIN ALL JOINTS ON PIPING.
- 4) THE DESIGNER SHALL ASSURE THAT THE EXISTING PIPING IS NOT RESTRAINED DESIGN SHALL INCLUDE LOCATING THE EXISTING PIPING AND RESTRAINING.
- 5) THE EXISTING 16" WATER MAIN SHALL BE REMOVED AND A NEW 16" WATER MAIN SHALL BE INSTALLED TO THE RIGHT SIDE OF THE LAS OLAS BLVD. ROAD. THE CITY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RECONSTRUCTION OF THE EXISTING PIPING.
- 6) FOLLOWING CITY ACCEPTANCE OF THE PROPOSED PIPING, THE CITY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RECONSTRUCTION OF THE EXISTING PIPING.
- 7) THE DESIGNER SHALL ASSURE THAT THE EXISTING PIPING IS NOT RESTRAINED DESIGN SHALL INCLUDE LOCATING THE EXISTING PIPING AND RESTRAINING.
- 8) THE EXISTING 16" WATER MAIN SHALL BE REMOVED AND A NEW 16" WATER MAIN SHALL BE INSTALLED TO THE RIGHT SIDE OF THE LAS OLAS BLVD. ROAD. THE CITY SHALL BE RESPONSIBLE FOR THE REMOVAL AND RECONSTRUCTION OF THE EXISTING PIPING.
- 9) A TOPOGRAPHIC SURVEY FOR CITY ROAD 11900 THAT CONTAINS EXISTING UNDERGROUND UTILITY INFORMATION IS AVAILABLE FROM THE CITY OF FORT LAUDERDALE.

AERIAL PHOTO 1

KEYED NOTES:

- 1) EXISTING WATER MAIN FOR VALVE ON EXISTING 16" WATER MAIN.
- 2) EXISTING 16" WATER MAIN.
- 3) EXISTING 16" WATER MAIN.
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- 98) EXISTING 16" WATER MAIN.
- 99) EXISTING 16" WATER MAIN.
- 100) EXISTING 16" WATER MAIN.

LEGEND:

- EXISTING
- PROPOSED
- TO BE
- REMOVED



NOT FOR CONSTRUCTION OR BID

| | |
|----------------------------------|----------------------------|
| PROJECT # 12196 | RELOCATION OF EX. 16" WM |
| RELOCATION OF EX. 16" WM | AND INSTALLATION OF 16" FM |
| RELOCATION OF 16" WATER MAIN | E. LAS OLAS BLVD. |
| TOTAL SHEETS: 13 | THIS SHEET: 13 |
| DRAWING FILE NO. 12196-001-WATER | DATE: 12/15/11 |

| REVISIONS | | | |
|-----------|------|----|-------------|
| NO. | DATE | BY | DESCRIPTION |
| | | | |
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| | | | |
|---|---|-------------------------------------|---|
| CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE 100 North Andrews Avenue, Fort Lauderdale, Florida 33301 | DRAWN BY: CFB CHECKED BY: GAD DESIGNED BY: PUC TITLE: ROAD | DATE: 02/20/16 SCALE: NTS N/A | APPROVED: GEORGE A. BROWN, P.E. REG. NO. 56076 DATE: 12/15/11 |
|---|---|-------------------------------------|---|

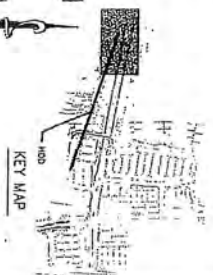


EXHIBIT "B"
CAM #16-1040 OF 18
Exhibit 1
16 of 24

HAZEN

HAZEN AND SONS, INC.
10000 W. BOULEVARD
SUITE 100
FORT LAUDERDALE, FL 33301
TEL: 954-571-1100
FAX: 954-571-1101
WWW.HAZENINC.COM



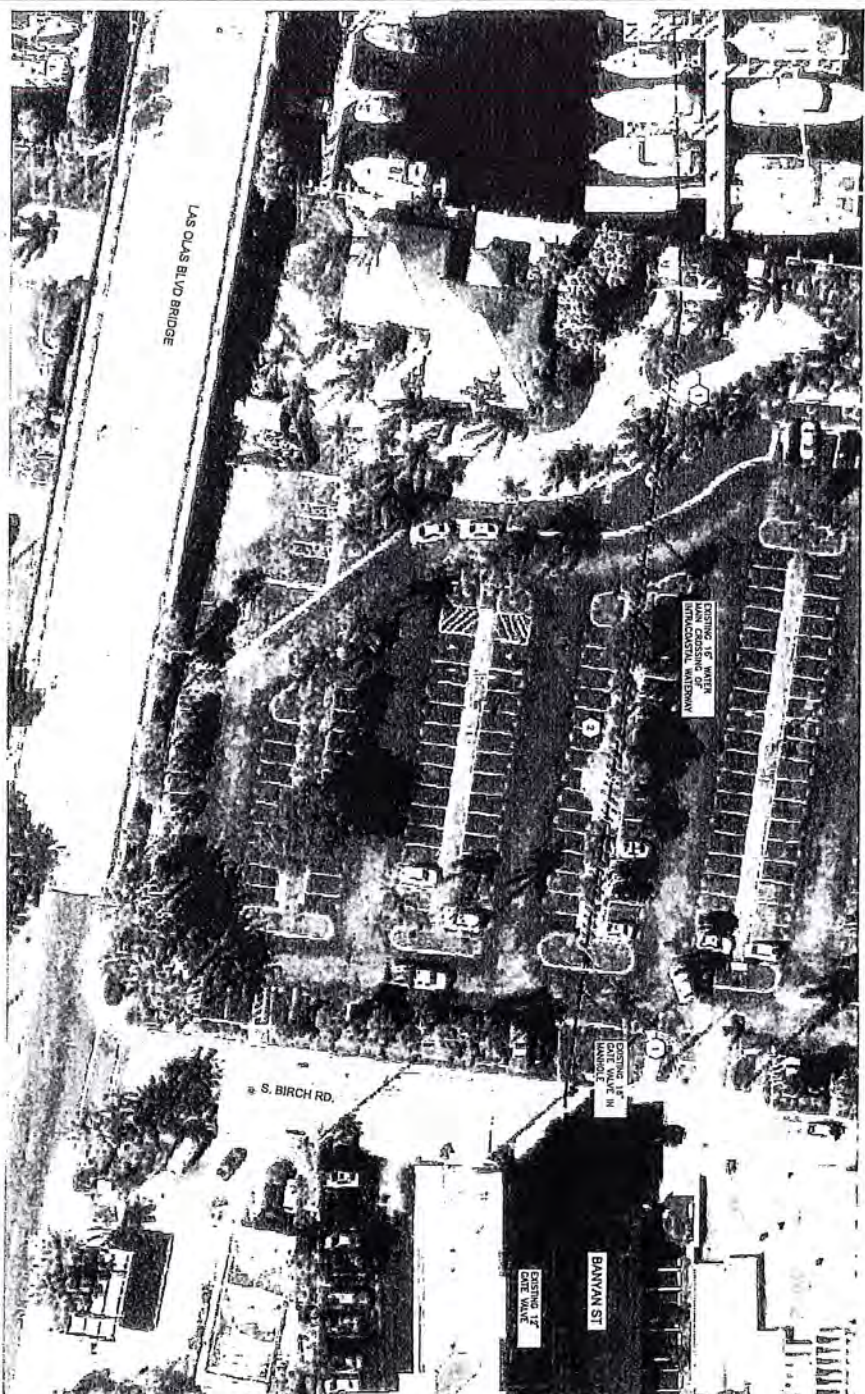
- GENERAL NOTES FOR WATER PIPELINE:**
- 1) ALL CLEANINGS ARE IN INCHES.
 - 2) THE TIE-IN LOCATIONS, DETAILS AND FITTINGS MAY BE MODIFIED TO ACCOMMODATE THE HORIZONTAL OR VERTICAL ALIGNMENT OF THE EXISTING PIPELINE.
 - 3) REPAIRS TO ALL JOINTS ON PIPE.
 - 4) THE DESIGNER SHALL ASSURE THAT THE EXISTING PIPELINE IS NOT RESTRAINED, DESIGN SHALL INCLUDE DETAILING AND THE EXISTING PIPELINE AND RESTRAINING SHALL BE MAINTAINED.
 - 5) THE EXISTING 16" WATER MAINS SHALL BE REMOVED AND A NEW 16" WATER MAIN SHALL BE INSTALLED IN THE NORTH SIDE OF THE LAS OLAS BLVD BRIDGE SHALL BE REMOVED AND A NEW 16" WATER MAIN SHALL BE INSTALLED BY THE CITY.
 - 6) FOLLOWING CITY APPROVAL OF THE PROPOSED PIPELINE, THE CITY SHALL BE RESPONSIBLE FOR THE PROPOSED PIPELINE ON THE NORTH SIDE OF THE LAS OLAS BLVD BRIDGE AND THE EXISTING PIPELINE ON THE SOUTH SIDE OF THE LAS OLAS BLVD BRIDGE.
 - 7) UNLESS INDICATED AS "EXISTING" THIS SHOWN AREA PROPOSED.
 - 8) NOT ALL EXISTING UTILITIES ARE SHOWN FOR CLARITY, AVAILABLE UNDERGROUND UTILITIES IN THE DESIGN AREA SHALL BE MAINTAINED.
 - 9) A TOPOGRAPHIC SURVEY FOR CITY PROJECT 11900 THAT CONTAINS EXISTING UNDERGROUND UTILITIES RECORDS IS AVAILABLE FROM THE CITY OF FORT LAUDERDALE.

KEYED NOTES:

- 1) CUT CAP EXISTING 16" WATER MAIN.
- 2) REMOVE EXISTING 16" WATER MAIN AND RESTORE SURFACE.

LEGEND:

EXISTING
PROPOSED
TO BE REMOVED



AERIAL PHOTO 2

NTS



KEY MAP



NOT FOR CONSTRUCTION OR BID

PROJECT # 12196
RELOCATION OF EX. 16" WM
& INSTALLATION OF 16" FM
RELOCATION OF 16" WATER MAIN
E. LAS OLAS BLVD.

DATE: 02/22/16
DRAWN BY: GAB
CHECKED BY: PJC
FIELD BOOK: N/A

DESIGNER: GEORGE A. BROWN, PE
REG. NO. 56076
EXPIRATION: 12/31/18

TEL: 954-571-1100
FAX: 954-571-1101

| REVISIONS | | | |
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| NO. | DATE | BY | DESCRIPTION |
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DATE: 02/22/16
DRAWN BY: GAB
CHECKED BY: PJC
FIELD BOOK: N/A

EXHIBIT 15B
11 OF 18

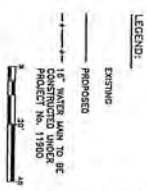
Hazen
 ANDERSON ASSOCIATES, INC.
 1101 N. W. 10th Ave., Suite 100
 Fort Lauderdale, FL 33304
 (954) 574-6000
 www.hazenanderson.com



- GENERAL NOTES FOR WATER PIPELINE:**
- 1) ALL ELEVATIONS ARE IN FEET.
 - 2) THE TIE-IN LOCATIONS, DETAILS AND FITTINGS MAY VARY DEPENDING ON THE DRAINAGE DIST. POINT AND ADJUSTMENT OF THE HOISTING, UNCRISTAL, DRILL.
 - 3) RETAINMENT ALL JOINTS.
 - 4) THE DESIGN ENGINEER SHALL ASSURE THAT THE INCLUDE DRAINAGE WITH EXISTING PIPING AND RETAINMENT JOINTS AS NEEDED.

PARTIAL PLAN 1
 1"=20'-0"

- KEYED NOTES:**
- 1) THE LOCATION SHOWN FOR THE WATER PIPING TO BE CONSTRUCTED UNDER CITY PROJECT No. 11900 IS APPROXIMATE. ADJUST LOCATIONS TO THE CITY TO CORRESPOND WITH THE LOCATION OF THE WATER PIPING TO BE CONSTRUCTED UNDER CITY PROJECT No. 11900.
 - 2) EXISTING AND PROPOSED 16" WATER MAIN TO BE CONSTRUCTED UNDER CITY PROJECT No. 11900.



NOT FOR CONSTRUCTION OR BID

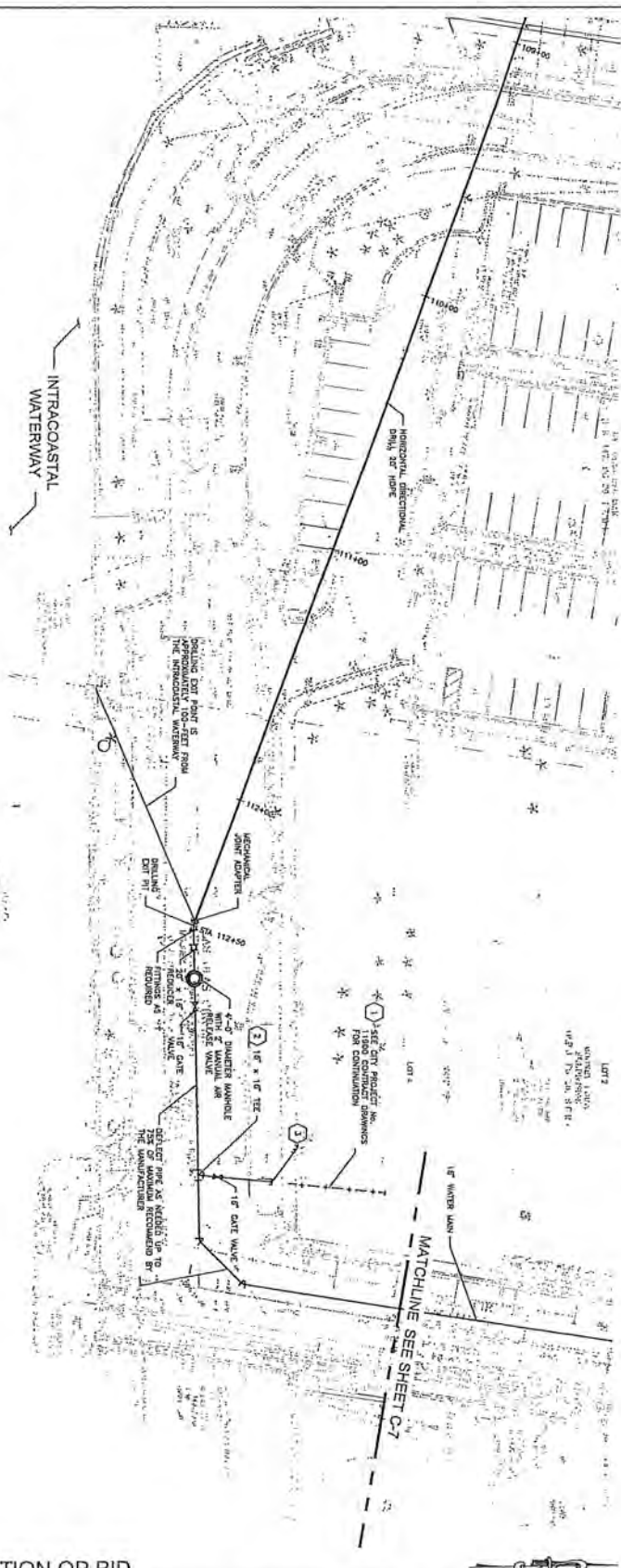
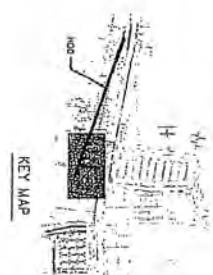
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| PROJECT # 12196 RELOCATION OF EX. 16" WM & INSTALLATION OF 16" FM RELOCATION OF 16" WATER MAIN E. LAS OLAS BLVD. | OBJECT NO. 107 C-6 7 | TOTAL 13 |
|--|----------------------------|----------|

| REVISIONS | | | |
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| NO. | DATE | BY | DESCRIPTION |
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CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 180 North Andrews Avenue, Fort Lauderdale, Florida 33301

| | |
|------------------|-----------------|
| DRAWN BY: LAF | DATE: 02/20/16 |
| DESIGNED BY: GAB | SCALE: 1"=20' |
| CHECKED BY: PJC | FIELD BOOK: N/A |

| | |
|-------------------------------|-------------------|
| ENGINEER: GEORGE A. BROWN, PE | REG. NO. 56076 |
| DATE: 2/16/16 | TEL: 954-574-6000 |



Hazen
AN ENGINEERING AND CONSULTING FIRM
 12000 W. BOULEVARD, SUITE 100
 FORT LAUDERDALE, FLORIDA 33301
 (954) 344-1111
 WWW.HAZENANDSANDERS.COM



- GENERAL NOTES FOR WATER PRELIM:**
- 1) ALL ELEVATIONS ARE IN MGD88.
 - 2) RESTRAIN ALL JOINTS ON PIPING.
 - 3) THE DESIGN ENGINEER SHALL ASSURE THAT THE PROPOSED DESIGN IS NOT RESTRICTED. DESIGN SHALL RESTRAINING JOINTS AS NEEDED.

PARTIAL PLAN 2
 1"=40'-0"



LEGEND:
 — EXISTING
 — PROPOSED

NOT FOR CONSTRUCTION OR BID

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| PROJECT # 12196 RELOCATION OF EX. 16" WM & INSTALLATION OF 16" FM RELOCATION OF 16" WATER MAIN E. LAS OLAS BLVD. | |
| SHEET NO. 09 | TOTAL 13 |
| C-7 | 0 |
| DRAWING FILE NO. 12196-007-WATER | |
| DATE: 07/20/16 | |

| REVISIONS | | | |
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| NO. | DATE | BY | DESCRIPTION |
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CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| | |
|------------------|----------------|
| DESIGNED BY: LWS | DATE: 07/20/16 |
| CHECKED BY: GAB | SCALE: 1"=20' |
| FIELD BOOK: PAC | N/A |

DESIGNED BY: GEORGE A. BROWN, PE
 REG. NO. 56076
 DATE: 5/4/16
 TEL: 954-937-0066
 FAX:

EXHIBIT "B"
 13aF18

OWNER: THE HATCH AND ASSOCIATES, INC.
 2000 S.W. 10TH AVENUE, SUITE 200
 MIAMI, FL 33135
 PHONE: (305) 371-1111
 FAX: (305) 371-1112
 WWW.HATCHANDASSOCIATES.COM



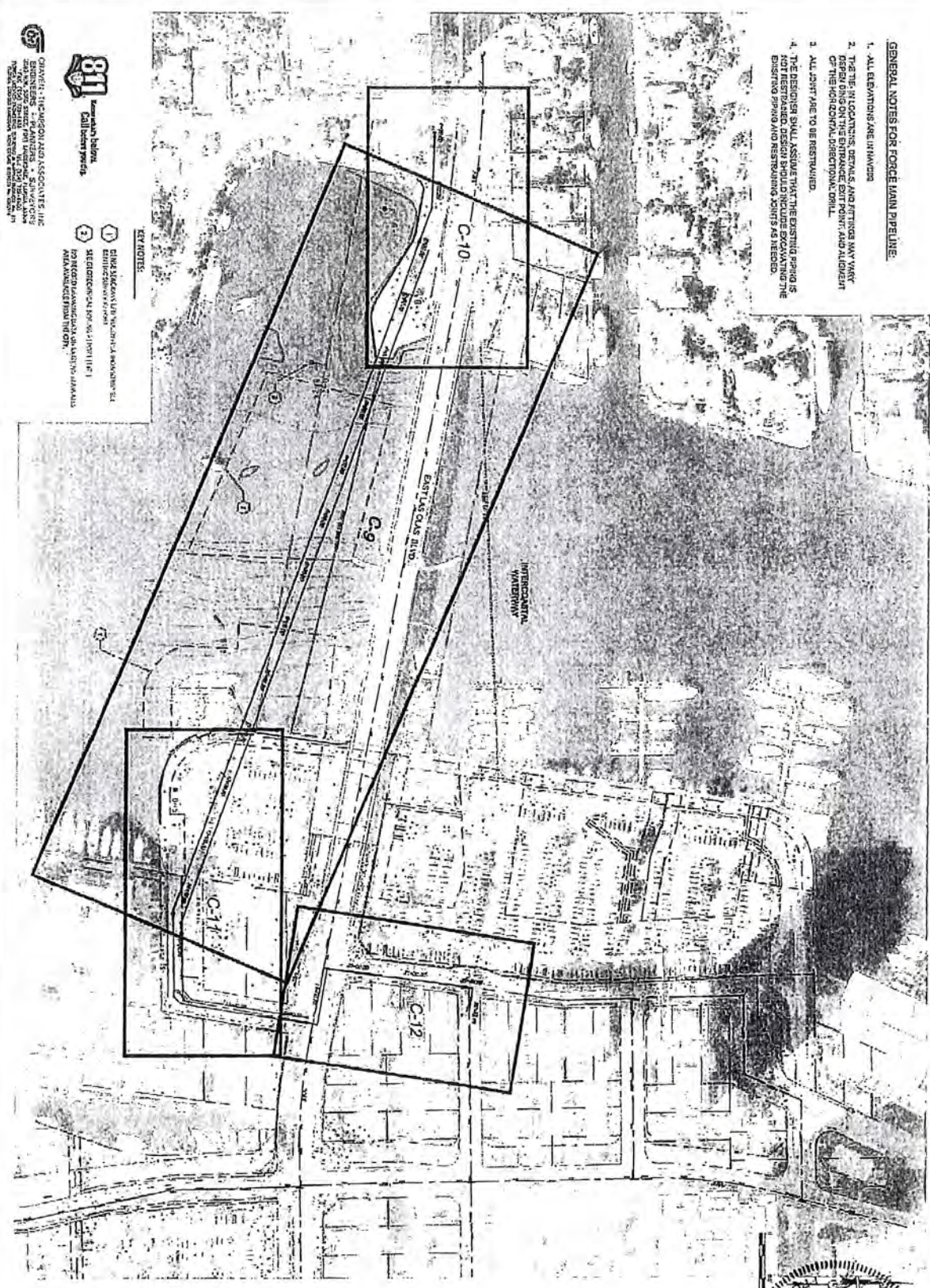
811
 Call Before You Dig
 Call 811 or visit 811.com

- 1. CIVIL ENGINEER: JAMES W. HATCH, P.E.
- 2. SURVEYOR: JAMES W. HATCH, P.S.
- 3. PROJECT MANAGER: JAMES W. HATCH, P.E.
- 4. PROJECT ENGINEER: JAMES W. HATCH, P.E.

KEY NOTES:

- 1. EXISTING 16" WM TO BE RELOCATED TO THE NEW ALIGNMENT.
- 2. EXISTING 16" FM TO BE RELOCATED TO THE NEW ALIGNMENT.
- 3. EXISTING 16" FM TO BE RELOCATED TO THE NEW ALIGNMENT.
- 4. EXISTING 16" FM TO BE RELOCATED TO THE NEW ALIGNMENT.

- GENERAL NOTES FOR FORCE MAIN PIPELINE:**
1. ALL REVISIONS ARE IN HANDS.
 2. THE 16" FM LOCATIONS, DEPTHS, AND FITTINGS MAY VARY DEPENDING ON THE ENTRANCE, EXIT POINT, AND ALIGNMENT OF THE HORIZONTAL DIRECTION, ONLY.
 3. ALL JOINTS ARE TO BE RESTRAINED.
 4. THE DESIGNER SHALL ASSURE THAT THE EXISTING PIPES ARE NOT RESTRAINED, DESIGN AND CONSTRUCTION SHALL BE THE EXISTING PIPES AND RESTRAINED JOINTS AS NEEDED.



NOT FOR CONSTRUCTION OR BID

| NO. | DATE | BY | REVISION |
|-----|----------|-----|--------------------|
| 1 | 01/12/16 | JWH | ISSUED FOR BIDDING |

PROJECT # 12196
RELOCATION OF EX. 16" WM
& INSTALLATION OF 16" FM
PROPOSED FORCE MAIN KEY MAP
E. LAS OLAS BLVD.

| NO. | DATE | BY | REVISION |
|-----|----------|-----|--------------------|
| 1 | 01/12/16 | JWH | ISSUED FOR BIDDING |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

STATE OF FLORIDA
PROFESSIONAL ENGINEER
PETER W. HATCH, P.E.
140518



CRAMER-THOMPSON AND ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS
100 North Andrews Avenue, Fort Lauderdale, Florida 33301
TELEPHONE: (305) 461-1111
FAX: (305) 461-1112

GENERAL NOTES FOR WATER PROFILE

1. ALL ELEVATIONS ARE IN FEET.
2. THE 16" FORCE MAIN IS TO BE INSTALLED AT THE PROPOSED LOCATION.
3. THE 16" FORCE MAIN IS TO BE INSTALLED AT THE PROPOSED LOCATION.
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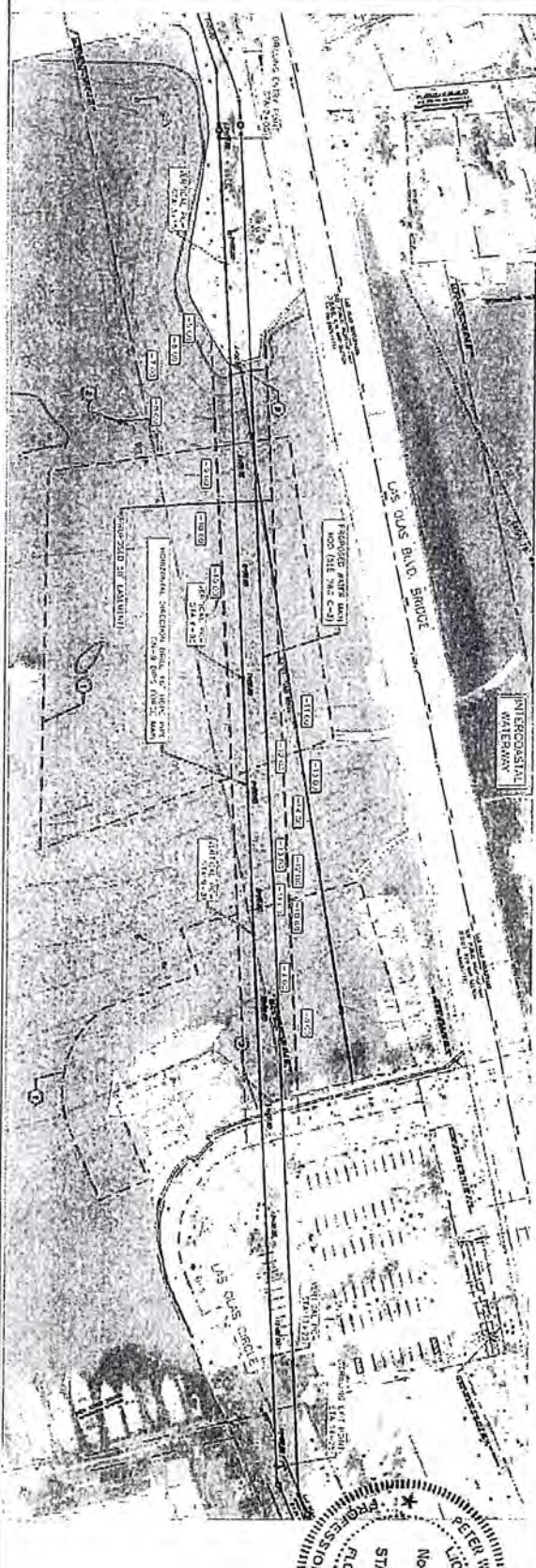
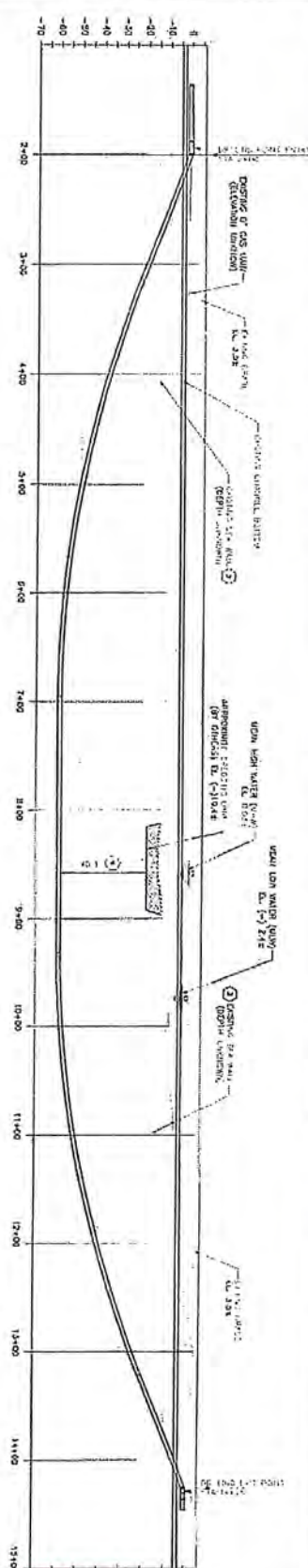
REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|---------------------------|
| 1 | 01/11/01 | REVISION TO WATER PROFILE |
| 2 | 01/11/01 | REVISION TO WATER PROFILE |
| 3 | 01/11/01 | REVISION TO WATER PROFILE |
| 4 | 01/11/01 | REVISION TO WATER PROFILE |
| 5 | 01/11/01 | REVISION TO WATER PROFILE |

LEGEND

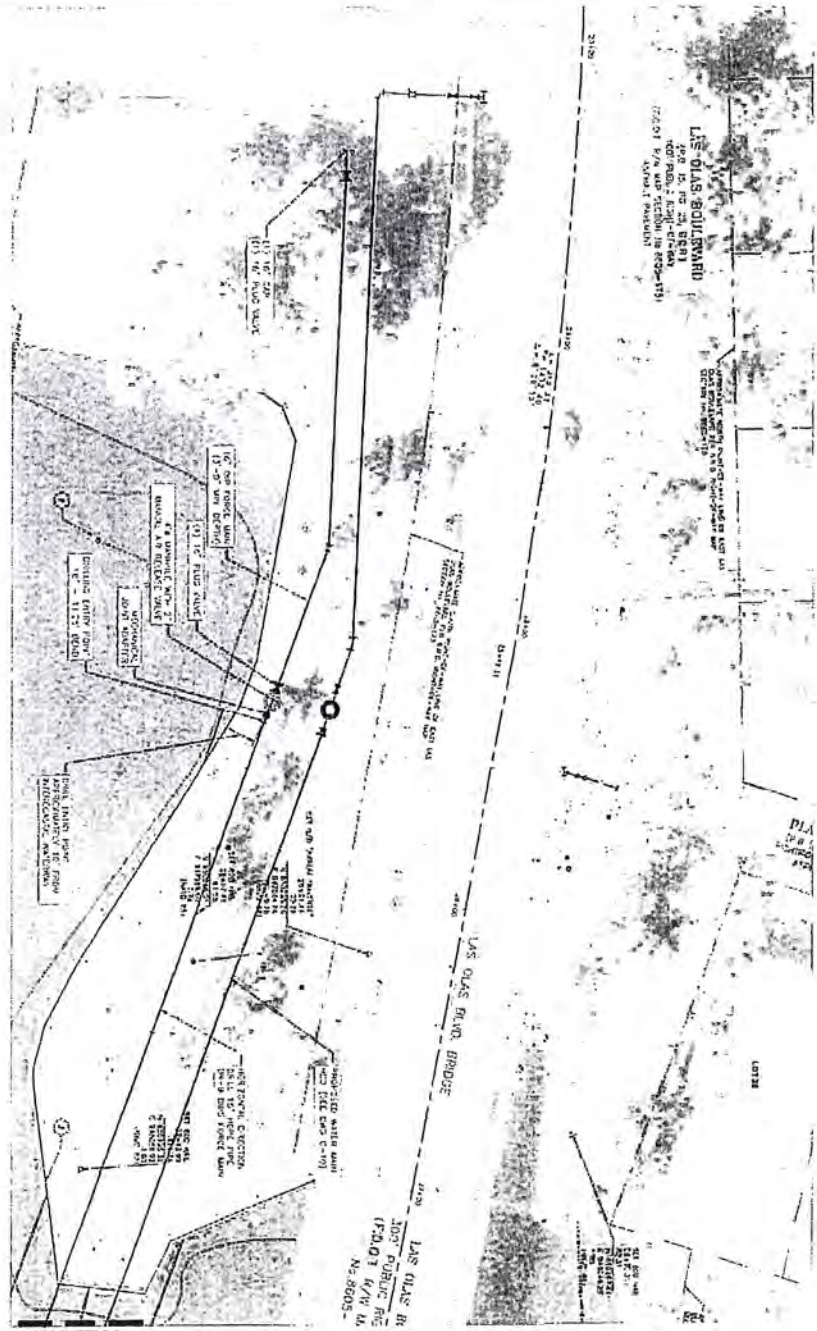
| SYMBOL | DESCRIPTION |
|--------|----------------|
| (16") | 16" FORCE MAIN |
| (12") | 12" FORCE MAIN |
| (8") | 8" FORCE MAIN |
| (4") | 4" FORCE MAIN |
| (2") | 2" FORCE MAIN |

NOT FOR CONSTRUCTION OR BID



| | | | | | | | |
|--|---------------------------------------|--|---|---|---|---|---|
| PROJECT # 12196 RELOCATION OF EX. 16" WM & INSTALLATION OF 16" FM PROPOSED 16" FORCE MAIN E. LAS OLAS BLVD. | | SUPERVISIONS NO. DATE BY DESCRIPTION | | CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE 100 North Andrews Avenue, Fort Lauderdale, Florida 33301 | PROFESSIONAL STATE No. 347 PETER R. WATKINS REGISTERED PROFESSIONAL ENGINEER | DATE 01/11/01 BY P. WATKINS FOR CITY OF FORT LAUDERDALE | SCALE AS SHOWN DATE 01/11/01 BY P. WATKINS FOR CITY OF FORT LAUDERDALE |
| TOTAL 13 DATE 01/11/01 BY P. WATKINS FOR CITY OF FORT LAUDERDALE | CLIENT NO. C-9 12 | PROJECT NO. 12196 | DATE 01/11/01 BY P. WATKINS FOR CITY OF FORT LAUDERDALE | | | | |

DESIGNED BY: J. H. JOHNSON AND ASSOCIATES, INC.
 1100 NORTH ANDREWS AVENUE, SUITE 2000
 FORT LAUDERDALE, FLORIDA 33301
 PHONE: (305) 768-1100
 FAX: (305) 768-1101
 WWW.JHJOHNSON.COM

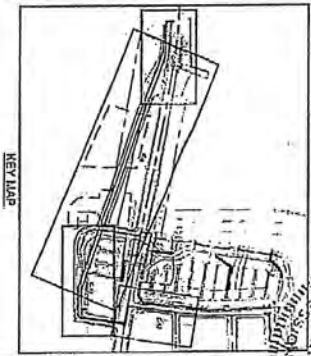


- GENERAL NOTES FOR WATER PIPELINE:**
1. ALL DEPTHS ARE IN FEET.
 2. THE PROPOSED 16\"/>

- EXISTING NOTES:**
1. EXISTING 16\"/>

- LEGEND:**
- PROPOSED 16\"/>

SEE SHEET C-3



NOT FOR CONSTRUCTION OR BID

| | |
|-------------|---------------|
| PROJECT NO. | 12198 |
| SHEET NO. | 12 |
| TOTAL | 13 |
| DATE | 11/08/08 |
| DESIGNED BY | J. H. JOHNSON |
| CHECKED BY | J. H. JOHNSON |
| APPROVED BY | J. H. JOHNSON |

PROJECT # 12198
RELOCATION OF EX. 16\"/>

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| | |
|-------------|---------------|
| DESIGNED BY | J. H. JOHNSON |
| CHECKED BY | J. H. JOHNSON |
| APPROVED BY | J. H. JOHNSON |
| DATE | 11/08/08 |

EXHIBIT "B"
16 OF 18



CHARTER ENGINEERING ASSOCIATES, INC.
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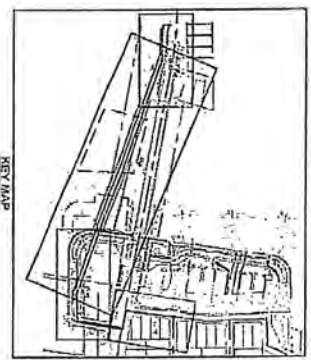
CHARTER ENGINEERING ASSOCIATES, INC.
121196 EX. 16
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GENERAL NOTES FOR VARIATION

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. THE TOTAL LENGTH OF THE PROPOSED 16" FORCE MAIN SHALL BE 1,100 FEET.
3. THE PROPOSED 16" FORCE MAIN SHALL BE INSTALLED AT A DEPTH OF 10 FEET.
4. THE PROPOSED 16" FORCE MAIN SHALL BE INSTALLED AT A DEPTH OF 10 FEET.

LEGEND

- 1. 16" FORCE MAIN
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- 99. 16" FORCE MAIN
- 100. 16" FORCE MAIN



NOT FOR CONSTRUCTION OR BID

| NO. | DATE | BY | CHKD. | REVISION |
|-----|----------|----|-------|----------|
| 1 | 12/11/16 | JL | | 1.0 |
| 2 | 12/11/16 | JL | | 2.0 |
| 3 | 12/11/16 | JL | | 3.0 |
| 4 | 12/11/16 | JL | | 4.0 |
| 5 | 12/11/16 | JL | | 5.0 |
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| 8 | 12/11/16 | JL | | 8.0 |
| 9 | 12/11/16 | JL | | 9.0 |
| 10 | 12/11/16 | JL | | 10.0 |
| 11 | 12/11/16 | JL | | 11.0 |
| 12 | 12/11/16 | JL | | 12.0 |
| 13 | 12/11/16 | JL | | 13.0 |
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| 21 | 12/11/16 | JL | | 21.0 |
| 22 | 12/11/16 | JL | | 22.0 |
| 23 | 12/11/16 | JL | | 23.0 |
| 24 | 12/11/16 | JL | | 24.0 |
| 25 | 12/11/16 | JL | | 25.0 |
| 26 | 12/11/16 | JL | | 26.0 |
| 27 | 12/11/16 | JL | | 27.0 |
| 28 | 12/11/16 | JL | | 28.0 |
| 29 | 12/11/16 | JL | | 29.0 |
| 30 | 12/11/16 | JL | | 30.0 |
| 31 | 12/11/16 | JL | | 31.0 |
| 32 | 12/11/16 | JL | | 32.0 |
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| 35 | 12/11/16 | JL | | 35.0 |
| 36 | 12/11/16 | JL | | 36.0 |
| 37 | 12/11/16 | JL | | 37.0 |
| 38 | 12/11/16 | JL | | 38.0 |
| 39 | 12/11/16 | JL | | 39.0 |
| 40 | 12/11/16 | JL | | 40.0 |
| 41 | 12/11/16 | JL | | 41.0 |
| 42 | 12/11/16 | JL | | 42.0 |
| 43 | 12/11/16 | JL | | 43.0 |
| 44 | 12/11/16 | JL | | 44.0 |
| 45 | 12/11/16 | JL | | 45.0 |
| 46 | 12/11/16 | JL | | 46.0 |
| 47 | 12/11/16 | JL | | 47.0 |
| 48 | 12/11/16 | JL | | 48.0 |
| 49 | 12/11/16 | JL | | 49.0 |
| 50 | 12/11/16 | JL | | 50.0 |
| 51 | 12/11/16 | JL | | 51.0 |
| 52 | 12/11/16 | JL | | 52.0 |
| 53 | 12/11/16 | JL | | 53.0 |
| 54 | 12/11/16 | JL | | 54.0 |
| 55 | 12/11/16 | JL | | 55.0 |
| 56 | 12/11/16 | JL | | 56.0 |
| 57 | 12/11/16 | JL | | 57.0 |
| 58 | 12/11/16 | JL | | 58.0 |
| 59 | 12/11/16 | JL | | 59.0 |
| 60 | 12/11/16 | JL | | 60.0 |
| 61 | 12/11/16 | JL | | 61.0 |
| 62 | 12/11/16 | JL | | 62.0 |
| 63 | 12/11/16 | JL | | 63.0 |
| 64 | 12/11/16 | JL | | 64.0 |
| 65 | 12/11/16 | JL | | 65.0 |
| 66 | 12/11/16 | JL | | 66.0 |
| 67 | 12/11/16 | JL | | 67.0 |
| 68 | 12/11/16 | JL | | 68.0 |
| 69 | 12/11/16 | JL | | 69.0 |
| 70 | 12/11/16 | JL | | 70.0 |
| 71 | 12/11/16 | JL | | 71.0 |
| 72 | 12/11/16 | JL | | 72.0 |
| 73 | 12/11/16 | JL | | 73.0 |
| 74 | 12/11/16 | JL | | 74.0 |
| 75 | 12/11/16 | JL | | 75.0 |
| 76 | 12/11/16 | JL | | 76.0 |
| 77 | 12/11/16 | JL | | 77.0 |
| 78 | 12/11/16 | JL | | 78.0 |
| 79 | 12/11/16 | JL | | 79.0 |
| 80 | 12/11/16 | JL | | 80.0 |
| 81 | 12/11/16 | JL | | 81.0 |
| 82 | 12/11/16 | JL | | 82.0 |
| 83 | 12/11/16 | JL | | 83.0 |
| 84 | 12/11/16 | JL | | 84.0 |
| 85 | 12/11/16 | JL | | 85.0 |
| 86 | 12/11/16 | JL | | 86.0 |
| 87 | 12/11/16 | JL | | 87.0 |
| 88 | 12/11/16 | JL | | 88.0 |
| 89 | 12/11/16 | JL | | 89.0 |
| 90 | 12/11/16 | JL | | 90.0 |
| 91 | 12/11/16 | JL | | 91.0 |
| 92 | 12/11/16 | JL | | 92.0 |
| 93 | 12/11/16 | JL | | 93.0 |
| 94 | 12/11/16 | JL | | 94.0 |
| 95 | 12/11/16 | JL | | 95.0 |
| 96 | 12/11/16 | JL | | 96.0 |
| 97 | 12/11/16 | JL | | 97.0 |
| 98 | 12/11/16 | JL | | 98.0 |
| 99 | 12/11/16 | JL | | 99.0 |
| 100 | 12/11/16 | JL | | 100.0 |

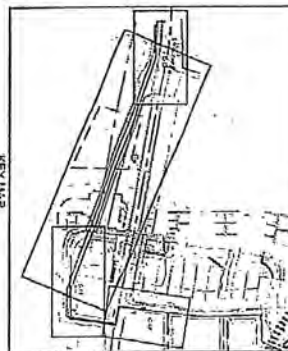
PROJECT # 12196
RELOCATION OF EX. 16" WM
& INSTALLATION OF 16" FM
PROPOSED 16" FORCE MAIN
E. LAS OLAS BLVD.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301





GENERAL INFORMATION AND DISCLOSURES: THE CITY OF FORT LAUDERDALE, FLORIDA, IS THE OWNER OF THE PROJECT. THE PROJECT IS A RELOCATION OF EX. 16" FM PROPOSED 16" FORCE MAIN E. LAS OLAS BLVD. FROM 100' TO 120' FROM THE RIGHT-OF-WAY. THE PROJECT IS A RELOCATION OF EX. 16" FM PROPOSED 16" FORCE MAIN E. LAS OLAS BLVD. FROM 100' TO 120' FROM THE RIGHT-OF-WAY.



- GENERAL NOTES FOR WATER MAINS:**
1. ALL TRENCHES ARE TO BE OPENED AND RECLOSED BY THE CONTRACTOR.
 2. ALL TRENCHES ARE TO BE OPENED AND RECLOSED BY THE CONTRACTOR.
 3. ALL TRENCHES ARE TO BE OPENED AND RECLOSED BY THE CONTRACTOR.
 4. ALL TRENCHES ARE TO BE OPENED AND RECLOSED BY THE CONTRACTOR.

LEGEND

| | |
|--------|----------------|
| 16" FM | 16" FORCE MAIN |
| 16" FM | 16" FORCE MAIN |
| 16" FM | 16" FORCE MAIN |
| 16" FM | 16" FORCE MAIN |
| 16" FM | 16" FORCE MAIN |

NOT FOR CONSTRUCTION OR BID

PROJECT # 12196
RELOCATION OF EX. 16" FM
& INSTALLATION OF 16" FM
PROPOSED 16" FORCE MAIN
E. LAS OLAS BLVD.

REVISIONS

| NO. | DATE | BY | DESC | DESCRIPTION |
|-----|------|----|------|-------------|
| 1 | | | | |
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PROJECT NO. 12196
DATE 01-12-12
BY 12196-012-2008
DATE 01-12-12

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 South Andrews Avenue, Fort Lauderdale, Florida 33301

STATE OF FLORIDA
PROFESSIONAL ENGINEER
PETER W. WATKINS
NO. 34478
DATE 01/12/2012
PROJECT NO. 12196
DATE 01-12-12
BY 12196-012-2008
DATE 01-12-12