

Solicitation 12470-416

RE-BID Design Build Pump Station B-4 Redundant Force Main

Bid Designation: Private



City of Fort Lauderdale

Bid 12470-416

RE-BID Design Build Pump Station B-4 Redundant Force Main

Bid Number **12470-416**
 Bid Title **RE-BID Design Build Pump Station B-4 Redundant Force Main**

Bid Start Date **Jan 13, 2021 1:11:10 PM EST**
 Bid End Date **Feb 17, 2021 2:00:00 PM EST**
 Question & Answer End Date **Feb 5, 2021 5:00:00 PM EST**

Bid Contact **Penelope Burger**
Procurement Administrator
Finance
954-828-5189
pburger@fortlauderdale.gov

Contract Duration **One Time Purchase**
 Contract Renewal **Not Applicable**
 Prices Good for **120 days**

Bid Comments **The City of Fort Lauderdale, FL ("City") has re-issued this Request for Proposal (RFP) to Firms that submitted a response to RFP 12443-916 Design Build Pump Station B-4 Force Main P12567, released September 4, 2020, to provide design-build services for the design, permitting, construction, testing and startup of the Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567 project. The work to be accomplished under this contract includes, but is not limited to; installation of a redundant force main for B-4 located in George English Park to a stub located south of the intersection of NE 21st Street and Bayview Drive; including all other aspects of the project to fulfill the intent of the Project as described in the Design Criteria Package and all supporting documents. Design-Build Firms who are interested in submitting Statements of Qualification (SOQ) in response to this RFP shall comply with Section IV - Submittal Requirements.**

The City of Fort Lauderdale uses BidSync (www.bidsync.com) to administer the competitive solicitation process, including but not limited to soliciting responses, issuing addenda, posting results and issuing notification of an intended decision. There is no charge to register and download the RFP from BidSync and to participate in the solicitation, nor will any fees be charged to the awarded DBF. Proposers are strongly encouraged to read the various vendor guides and tutorials available in BIDSNYC well in advance of their intention of submitting a response to ensure familiarity with the use of BidSync. The City shall not be responsible for a Proposer's inability to submit a response by the submission deadline date and time for any reason, including issues arising from the use of BidSync.

It is the sole responsibility of the Proposer to ensure that their bid is submitted electronically through BidSync at www.bidsync.com no later than the time and date specified in this solicitation. **PAPER PROPOSAL SUBMITTALS WILL NOT BE ACCEPTED. PROPOSALS MUST BE SUBMITTED ELECTRONICALLY VIA WWW.BIDSYNC.COM.**

Electronic Proposal Openings

Please be advised that effective immediately, and until further notice, all Invitation to Bids, Request For Proposals, Request For Qualifications, and other solicitations let by the City of Fort Lauderdale will be opened electronically via WWW.BIDSYNC.COM at the date and time indicated on the solicitation. All openings will be held on the BIDSNYC.COM platform. Once the Procurement Specialist opens the solicitation, the bid tabulations may be viewed immediately on a computer, laptop, cell phone, or any other device with WiFi access. The opening may also be viewed in real time through a "Zoom meeting" or similar type platform.

ZOOM MEETING INFORMATION:

TOPIC: RFP12470-416 Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567
TIME: Feb 17, 2021 02:00 PM Eastern Time (US and Canada)

Join ZoomGov Meeting

<https://fortlauderdale.zoomgov.com/j/1600214004?pwd=YkV6MEZQNUQxMmxMWFRtaWNPK3JuUT09>

Meeting ID: 160 021 4004

Password: 593991

Mobile Phone One-tap Dial:

+16692545252,,1600214004#,,1#,593991# US (San Jose)

+16468287666,,1600214004#,,1#,593991# US (New York)

Dial by your location

+1 669 254 5252 US (San Jose)

+1 646 828 7666 US (New York)

+1 551 285 1373 US

+1 669 216 1590 US (San Jose)

Meeting ID: 160 021 4004

Password: 593991

Find your local number: <https://fortlauderdale.zoomgov.com/u/au2V8Jttu>

Pre-Proposal Meeting: There will not be a pre-proposal meeting or site visit for this Request for Proposal.

Proposal Bond: A certified check, cashier's check or bank officer's check, for **five percent (5%)** of the Price Proposal, made payable to the City of Fort Lauderdale, Florida, or bid bond in such amount, shall accompany each proposal as evidence of the good faith and responsibility of the proposer.

Added on Jan 26, 2021:

Update vendor information

Added on Feb 9, 2021:

Addendum No. 1

Change to Section 4, Submittal Requirements

All other terms, conditions, and specifications remain unchanged.

Addendum # 1

New Documents

Addendum No. 1.pdf

Item Response Form

| | |
|-------------------|---|
| Item | 12470-416--01-01 - RE-BID Design Build Pump Station B-4 Redundant Force Main |
| Quantity | 1 lot |
| Unit Price | <input type="text"/> |
| Delivery Location | City of Fort Lauderdale |
| | <u>City Hall</u> |
| | 100 N. Andrews Avenue |
| | Fort Lauderdale FL 33301 |
| | Qty 1 |

Description

ENTER TOTAL PROPOSAL "CONTRACT PRICE" AS STATED ON THE PRICE PROPOSAL FORM.

Note: Payment on the contract will be made by Visa or Mastercard.

Proposal Bond: A certified check, cashier's check or bank officer's check, for **five percent (5%)** of the Price Proposal, made payable to the City

of Fort Lauderdale, Florida, or bid bond in such amount, shall accompany each proposal as evidence of the good faith and responsibility of the proposer.

SECTION 1 INTRODUCTION

1.1 Purpose

The City of Fort Lauderdale, FL ("City") has re-issued this Request for Proposal (RFP) to Firms that submitted a response to RFP 12443-916 Design Build Pump Station B-4 Force Main P12567, released September 4, 2020, to provide design-build services for the design, permitting, construction, testing and startup of the Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567 project. The work to be accomplished under this contract includes, but is not limited to; installation of a redundant force main for B-4 located in George English Park to a stub located south of the intersection of NE 21st Street and Bayview Drive; including all other aspects of the project to fulfill the intent of the Project as described in the Design Criteria Package and all supporting documents. Design-Build Firms who are interested in submitting Statements of Qualification (SOQ) in response to this RFP shall comply with Section IV - Submittal Requirements.

The City will retain services within the scope of architecture or professional engineering and within the scope of construction contracting. The City will solicit proposals and establish a competitive selection process in accordance with City of Fort Lauderdale [Code of Ordinances Section 2-125.1](#) to procure the services of a qualified DBF.

The Design-Criteria Professional, [Hazen & Sawyer](#), P.C., including their sub-consultants, are not eligible to render design-build services for this solicitation. Pursuant to [Florida Statutes 287.055 \(9\) \(b\)](#), "A design criteria professional who has been selected to prepare the design criteria package is not eligible to render services under a design-build contract executed pursuant to the design criteria package." The City reserves the right to disqualify any proposal from a team which includes any sub-consultant and/or individual who has played a substantial role in the development of the design criteria package or whose involvement with the design-build team would confer upon that team an unfair competitive advantage because of such sub-consultant's or member's prior involvement in the project.

1.2 Bid Sync

The City of Fort Lauderdale uses BidSync (www.bidsync.com) to administer the competitive solicitation process, including but not limited to soliciting responses, issuing addenda, posting results and issuing notification of an intended decision. There is no charge to register and download the RFP from BidSync and to participate in the solicitation, nor will any fees be charged to the awarded DBF. Proposers are strongly encouraged to read the various vendor guides and tutorials available in BIDSNYC well in advance of their intention of submitting a response to ensure familiarity with the use of BidSync. The City shall not be responsible for a Proposer's inability to submit a response by the submission deadline date and time for any reason, including issues arising from the use of BidSync.

It is the sole responsibility of the Proposer to ensure that their bid is submitted electronically through BidSync at www.bidsync.com no later than the time and date specified in this solicitation. **PAPER PROPOSAL SUBMITTALS WILL NOT BE ACCEPTED. PROPOSALS MUST BE SUBMITTED ELECTRONICALLY VIA WWW.BIDSYNC.COM.**

1.3 Submission Deadline

Responses shall be submitted electronically via BidSync (www.bidsync.com) in response to **RFP No. 12470-416, Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567** prior to the designated bids due date and time indicated in the solicitation.

1.4 Electronic Proposal Openings

Please be advised that effective immediately, and until further notice, all Invitation to Bids, Request For Proposals, Request For Qualifications, and other solicitations let by the City of Fort Lauderdale will be opened electronically via WWW.BIDSYNC.COM at the date and time indicated on the solicitation. All openings will be held on the BIDSYNC.COM platform. Once the Procurement Specialist opens the solicitation, the bid tabulations may be viewed immediately on a computer, laptop, cell phone, or any other device with WiFi access. The opening may also be viewed in real time through a "Zoom meeting" or similar type platform.

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Meeting ID: 160 021 4004

Password: 593991

Mobile Phone One-tap Dial:

+16692545252,,1600214004#,,1#,593991# US (San Jose)

+16468287666,,1600214004#,,1#,593991# US (New York)

Dial by your location

+1 669 254 5252 US (San Jose)

+1 646 828 7666 US (New York)

+1 551 285 1373 US

+1 669 216 1590 US (San Jose)

Meeting ID: 160 021 4004

Password: 593991

Find your local number: <https://fortlauderdale.zoomgov.com/u/au2V8Jttu>

Anyone requesting assistance or having further inquiry in this matter must contact the Procurement Specialist indicated on the solicitation, via the question and Answer forum on Bidsync.com before the Last Day for Questions indicated in the Solicitation."

Please go to <https://www.fortlauderdale.gov/departments/human-resources/recruitment-testing-selection/employment-benefits> for a complete list of all City observed holidays.

1.5 Point of Contact

Procurement Services Division

Penelope Burger, Procurement Administrator

100 N. Andrews Avenue, 6th Floor

Fort Lauderdale, FL 33301

Fax: 954-828-5189

Email: pburger@fortlauderdale.gov

All inquiries concerning this RFP, questions, and request for additional information shall be sent via the BIDSYNC question and answer (Q&A) platform.

1.6 Pre-Proposal Meeting:

There will not be a pre-proposal meeting or site visit for this Request for Proposal.

However, it will be the sole responsibility of the proposer to inspect the City's location(s)/facilities and become familiar with the scope of the City's requirements and systems prior to submitting a proposal. No variation in price or conditions shall be permitted based upon a claim of ignorance. Submission of a proposal will be considered evidence that the proposer has familiarized himself with the nature and extent of the work, equipment, materials, and labor required.

It is the sole responsibility of the DBF to become familiar with the scope of the City's requirements and systems prior to submitting a proposal. No variation in price or conditions shall be permitted based upon a claim of ignorance.

1.7 Compliance and Legal Conditions

In order to comply fully with the requirements of the City's Code of Ordinances below and Florida Statutes 287.055, the following procedures shall be followed in selecting firms to provide design/build services and in negotiating design/build contracts.

It will be the sole responsibility of the proposer to familiarize themselves with the following ordinances and statutes:

- a) [City of Fort Lauderdale Ordinance Section 2-125.1 – Design/build contracts](#)
- b) [Florida Statutes 287.055](#) – Acquisition of professional architectural, engineering, landscape architectural, or surveying and mapping services; definitions; procedures; contingent fees prohibited; penalties.
- c) [Florida Statutes 287.055 \(9\)](#) Applicability to Design-Build Contracts

1.8 Personal Investigation

Proposers shall satisfy themselves by personal investigation and by such other means as they may think necessary or desirable, as to the conditions affecting the proposed work and the cost. No information derived from maps, plans, specifications, or from the Engineer, City Manager, or their assistants shall relieve the DBF from any risk or from fulfilling all terms of the contract.

1.9 Lobbyist Ordinance

ALL DBFS PLEASE NOTE: Any DBF submitting a response to this solicitation must comply, if applicable, with City of Fort Lauderdale Ordinance No. C-11-42 & Resolution No. 07-101, Lobbying Activities. Copies of Ordinance No. C-11-42 and Resolution No. 07-101 may be obtained from the City Clerk's Office on the 7th Floor of City Hall, 100 N. Andrews Avenue, Fort Lauderdale, Florida. The ordinance may also be viewed on the City's website at <http://www.fortlauderdale.gov/home/showdocument?id=6036>.

1.10 Debarred or Suspended Bidders or Proposers

The bidder or proposer certifies, by submission of a response to this solicitation, that neither

it nor its principals and subcontractors are presently debarred or suspended by any Federal department or agency.

1.11 Prohibition Against Contracting with Scrutinized Companies

Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the DBF certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), that it is not engaged in a boycott of Israel, and that it does not have business operations in Cuba or Syria, as provided in section 287.135, Florida Statutes (2019), as may be amended or revised. The City may terminate this Agreement at the City's option if the DBF is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2019), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2019), as may be amended or revised.

By submitting a bid, proposal or response, the company, principals, or owners certify that they are not listed on the Scrutinized Companies with Activities in Sudan List or listed on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or is engaged in business operations in Cuba or Syria.

1.12 Inconsistencies

Any seeming inconsistency between different provisions of the plans, specifications, proposal or contract, or any point requiring explanation must be inquired into by the proposer, in writing up to the Question & Answer End Date, as published in the solicitation document. After proposals are opened, the proposers shall abide by the decision of the City as to such interpretation. No modifications to Proposals will be permitted after the date and hour of the Proposal opening.

1.13 Addenda and Interpretations

No interpretations of the meaning of the plans, specifications or other contract documents will be made orally to any proposer. Prospective proposers must request such interpretation in writing as instructed in the RFP. To be considered, such request must be received by the Questions and Answers deadline as indicated in Bidsync.com. Material changes, if any, to the scope of services or bidding procedures are only transmitted by written addendum. It is the proposer's responsibility to verify if addendums have been issued in Bidsync.com. Failure of any proposer to receive any such addenda or interpretation shall not relieve any proposer from any obligation under his RFP as submitted. All addenda so issued shall become a part of the contract document. Proposer shall verify in Bidsync.com that he/she has all addenda before submitting a proposal.

1.14 Forms of Proposals

Each proposal and its accompanying statements must be submitted, in good order with all forms and blanks completed. The proposal must be signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. No proposal will be accepted,

for any reason whatsoever, which is not submitted to the City as stated above, within the specified time.

1.15 Bid Firm for Acceptance (120 days)

Proposer warrants, by virtue of bidding, that his proposal and the prices quoted in this proposal will be firm for acceptance by the City for a period of one hundred and twenty (120) days from the date of bid opening unless otherwise stated in the RFP. The City shall award contract within this time period or shall request to the recommended awarded vendor an extension to hold pricing, until products/services have been awarded.

1.16 Additional Items or Services

The City may require additional items or services of a similar nature, but not specifically listed in the contract. The DBF agrees to provide such items or services, and shall provide the City prices on such additional items or services based upon a formula or method, which is the same or similar to that used in establishing the prices in this proposal. If the price(s) offered are not acceptable to the City, and the situation cannot be resolved to the satisfaction of the City, the City reserves the right to procure those items or services from other vendors, or to cancel the contract upon giving the DBF thirty (30) days written notice.

1.17 Deletion or Modification of Services

The City reserves the right to delete any portion of the Contract at any time without cause, and if such right is exercised by the City, the total fee shall be reduced in the same ratio as the estimated cost of the work deleted, bears to the estimated cost of the work originally planned. If work has already been accomplished on the portion of the Contract to be deleted, the DBF shall be paid for the deleted portion on the basis of the estimated percentage of completion of such portion.

If the DBF and the City agree on modifications or revisions to the task elements, after the City has approved work to begin on a particular task or project, the DBF will submit a request for a Change Order and a revised budget to the City for approval prior to proceeding with the work.

1.18 Rejection of Proposals/Bids

The City reserves the right to reject any proposal if the evidence submitted by the proposer, or if the investigation of such proposer, fails to satisfy the City that such proposer is properly qualified to carry out the obligations and to complete the work contemplated. Any or all proposals will be rejected, if there is reason to believe that collusion exists among submitters. A proposal will be considered irregular and may be rejected, if it shows serious omissions, alterations in form, additions not called for, conditions or unauthorized alternates, or irregularities of any kind. The City reserves the right to reject any or all proposals and to waive such technical errors as may be deemed best for the interests of the City.

1.19 Bid Protest Procedure

Any proposer or bidder who is not recommended for award of a contract and who alleges a failure by the City to follow the City's procurement ordinance or any applicable law, may follow the protest procedures as found in the City's Procurement Ordinance within five (5) days after a Notice of Intent to award is posted on the City's website at the following link: <http://fortlauderdale.gov/departments/finance/procurement-services/notices-of-intent-to-award>

The complete protest ordinance may be found on the City's website at the following link:
https://www.municode.com/library/fl/fort_lauderdale/codes/code_of_ordinances?nodeId=COOR_CH2AD_ARTVFI_DIV2PU_S2-199.1BIPRPR

1.20 Withdrawals

Any proposer may, without prejudice to him/herself, withdraw his/her proposal at any time prior to the expiration of the time during which proposals may be submitted. Such request for withdrawal must be in writing and signed in the same manner and by the same person who signed the proposal. After expiration of the period for receiving proposals, no proposal can be withdrawn, modified, or explained.

****END OF SECTION 1****

SECTION 2 SPECIAL CONDITIONS

2.1 Definitions

Award – means the acceptance of a bid, offer or proposal by the proper authorized designee. The City Commission must approve all awards over the authority of the City Manager, with the exception of emergency purchases.

City – the City of Fort Lauderdale or the City Commission, a municipal corporation of the State of Florida.

City Commission – City Commission shall mean the governing and legislative body of the City.

Contract – This Agreement and all addenda, exhibits and amendments thereto between the City and the Design-Build Firm for this Project. Contract shall also mean the same as Agreement.

Design Build – Means a single contract with a Design-Build Firm for the design and construction of a City construction project.

Design Build Firm (DBF) – means a partnership, corporation, or other legal entity that is certified under Florida Statute 489.119 to engage in contracting through a certified or registered general contractor or a certified or registered building contractor as the qualifying agent or is certified under Florida Statute 471.023 to practice or to offer to practice engineering; certified under Florida Statute 481.219 to practice or to offer to practice architecture, or certified under Florida Statute 481.319 to practice or to offer to practice landscape architecture.

Design Criteria Package (DCP) – DCP shall mean those certain conceptual plans and specifications and performance oriented drawings or specifications of the Project, as prepared and sealed by the Design Criteria Professional, and in compliance with the requirements of Section 287.055, Florida Statutes.

Design Criteria Professional – means a firm which holds a current certificate or registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture or a firm which holds a current certificate as a registered engineer under Chapter 471, Florida Statutes, to practice engineering and who is employed by or under contract by the City to provide professional architect services, landscape architect services, or engineering services in connection with the preparation of the Design Criteria Package.

Guaranteed Maximum Price (GMP) – the mutually agreed upon contract price to be paid to the DBF for the work, with the DBF agreeing to complete the work without additional payment. The guaranteed maximum price is not subject to increase, except as expressly allowed by the City. Savings below the maximum guaranteed price are shared between owner and DBF, whereas the DBF assumes the responsibility for any overrun beyond the Guaranteed maximum price.

Negotiate – any form of that word means to conduct legitimate, arm's length discussion and conferences to reach an agreement on a term or price.

Notice to Proceed – means the written notice given by the City to the Design-Build Firm of the date and time for work to start.

Professional Services – means those services within the scope of the practice of architecture, professional engineering, landscape architect, or registered surveying and mapping, as defined by the laws of the state, or those performed by any architect, professional engineer, landscape architect, or registered surveyor and mapper in connection with his or her professional employment or practice.

Project Manager – an authorized representative of the City assigned to the Project by the City, assigned to make necessary observations of materials furnished by DBF and of the Work performed by DBF as detailed.

Proposal – means the proposal or submission submitted by a Proposer. The terms “Proposal” and “Bid” are used interchangeably and have the same meaning.

Proposer – means one who submits a Proposal in response to a solicitation. The terms “Proposer” and “Bidder” are used interchangeably and have the same meaning.

Substantial Completion – the date(s) certified by the Project Manager that all conditions of the permits and regulatory agencies have been met for the City’s intended use of the Project, and all construction has been performed in accordance with the Contract Documents so City can fully utilize, as opposed to partially utilize, the Project for its intended purpose.

Work – the completed construction required by the Contract Documents, as permitted, including all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.

2.2 Responsiveness

In order to be considered responsive to the solicitation, the firm’s response shall fully conform in all material respects to the solicitation and all of its requirements, including all form and substance.

2.3 Responsibility

In order to be considered responsible, DBF shall be fully capable of meeting all of the requirements of the solicitation and the subsequent contract; must possess the full capability, including financial and technical capacity, to perform as contractually required; and must fully document the ability to provide good faith performance.

2.4 Sub-Consultants

A Sub-Consultant is an individual or firm contracted by the DBF to assist in the performance of services required under this RFP. A Sub-Consultant shall be paid through DBF and not paid directly by the City. Sub-Consultants are permitted by the City in the performance of the services pursuant to the Agreement. DBF must clearly reflect in its Statement of Qualification (SOQ) the major Sub-Consultant(s) to be utilized in the performance of required services. The City retains the right to accept or reject any Sub-Consultant proposed in the response of successful DBFs or prior to contract execution. Any and all liabilities regarding the use of a Sub-Consultant shall be borne solely by the successful DBF and insurance for each Sub-Consultant must be maintained in good standing and approved by the City throughout the duration of the Contract. Neither successful DBF nor any of its Sub-Consultants are considered to be employees or agents of the City. Failure to list all Sub-Consultants and

provide the required information may disqualify any proposed Sub-Consultant from performing work under this RFP.

DBFs shall include in their responses the requested Sub-Consultant information and include all relevant information required of the DBF. In addition, within five (5) working days after the identification of the award to the successful DBF, the DBF shall provide a list confirming the Sub-Consultant(s) that the successful DBF intends to utilize in the Contract, if applicable. The list shall include, at a minimum, the name, and location of the place of business for each Sub-Consultant, the services Sub-Consultant will provide relative to any contract that may result from this RFP, Sub-consultants hourly rates or fees, any applicable licenses, insurance, references, ownership, and other information required of the DBF. No more than 20% of the team members selected for this project can be substituted and any and all team and/or staff substitutions must be approved by the City in advance.

2.5 Contract Term

Time is of the essence for the DBF's performance of the Work.

The City will enter into a Not-To-Exceed (NTE) contract with the successful DBF for a Guaranteed Maximum Price (GMP) for the Work. The terms and conditions of this contract are fixed price and for a fixed period of time. The DBF submitted proposal is to be a NTE GMP proposal for completing the Scope of Work in the RFP. The DBF will provide a Schedule of Values to the City for their approval. The total of the Schedule of Values will be this NTE GMP contract price for the work.

The DBF shall not assign, transfer or sub-contract any work either in whole or in part, without prior written approval of the City. The submittal responses shall be valid until such time as City Commission awards a contract as a result of this RFP.

City reserves the right, where it may serve the City of Fort Lauderdale's best interest, to request additional information or clarification from Proposers including but not limited to oral interviews as requested by the Evaluation Committee.

The City of Fort Lauderdale reserves the right to waive formalities in any proposal and further reserves the right to take any other action that may be necessary in the best interest of the City.

The City reserves the right to let other contracts in connection with this Project, provided it does not interfere with DBF's work or schedule. By submitting a Proposal each firm is confirming that the firm has not been placed on the convicted vendors list as described in [Florida Statue §287.133 \(2\) \(a\)](#).

2.6 Unauthorized Work

The successful DBF(s) shall not begin work until a Contract and a Notice to Proceed has been issued. DBF(s) agree and understand that a purchase order and/or task order shall be issued and provided to the DBF(s) following City Commission award; however, receipt of a purchase order and/or task order shall not prevent the DBF(s) from commencing the work once the City Commission has awarded the contract and notice to proceed is issued.

2.7 Proposal Bond

A certified check, cashier's check or bank officer's check, for **five percent (5%)** of the Price Proposal, made payable to the City of Fort Lauderdale, Florida, or bid bond in such amount, shall accompany each proposal as evidence of the good faith and responsibility of the proposer.

Proposers can submit proposal bonds for projects **four** different ways:

- 1) BidSync allows bidders to submit bid bonds electronically directly through their system using **Surety 2000**. For more information on this feature and to access it, contact BIDSYNC customer care department.
- 2) Proposers may **electronically upload** their original executed proposal bond on Bidsync to accompany their electronic proposal, and deliver the original, signed and sealed hard copy within five (5) business days after proposal opening, with the Firm's name, proposal number and title clearly indicated.

Proposal bond shall be written by a surety insurer authorized to do business in the State of Florida as surety, in accordance with Section 255.05, Florida Statutes. Insufficient proposal bond surety shall automatically constitute a failure on the part of the Consultant and shall be grounds for rejection of your proposal.

- 3) Bidders can **hand deliver** their bid bond in a sealed envelope to the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Room 619, Fort Lauderdale, Florida 33301-1016, before time of bid opening, with the company name, bid number and title clearly indicated on the envelope.
- 4) Bidders can **mail** their bid bond to the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Room 619, Fort Lauderdale, Florida 33301-1016, before time of bid opening, with the company name, bid number and title clearly indicated on the envelope. **NOTE: Bond must be received in Procurement and time stamped before bid opening.**

It will be the sole responsibility of the proposer to ensure that his proposal is submitted prior to the proposal opening date and time listed. **PAPER PROPOSAL SUBMITTALS WILL NOT BE ACCEPTED. PROPOSALS MUST BE SUBMITTED ELECTRONICALLY VIA BIDSYNC.COM**

Certified Checks, Cashier's Checks and Bank Drafts:

These **CANNOT** be submitted via BIDSYNC, nor are their images allowed to be uploaded and submitted with your electronic proposal. These forms of securities, as well as hard copy proposal bonds, must be received on or before the Design Build Request for Proposal (RFP) opening date and time, at the Finance Department, Procurement Services Division, 100 North Andrews Avenue, Room 619, Fort Lauderdale, Florida 33301-1016, with the bid number and title clearly indicated on the envelope.

It is the proposer's sole responsibility to ensure that his proposal bond or other proposal security is received by the Procurement Services Division before time of proposal opening. Failure to adhere to this requirement may be grounds to consider the proposal as non-responsive.

The check or bond shall be retained by the City as liquidated damages should the proposer refuse to or fail to enter into a contract for the execution of the work embraced in this proposal, in the event the proposal of the proposer is accepted. Retention of such amount shall not be construed as a penalty or forfeiture.

The above bond or check shall be a guarantee that the proposer will, if necessary, promptly execute a satisfactory contract and furnish good and sufficient bonds. As soon as a satisfactory contract has been executed and the bonds furnished and accepted, proposal bond accompanying the proposal of the successful proposer will be returned to him/her. If the successful proposer shall not enter into, execute, and deliver such a contract and furnish the required bonds within fifteen (15) days after receiving notice to do so, proposal bond shall immediately become the property of the City of Fort Lauderdale as liquidated damages. Retention of such amount shall not be construed as a penalty or forfeiture.

Additional insurance and bonds may be required for the construction phase of the project.

2.8 Performance and Payment Bond (Surety Bond)

The DBF shall execute and record in the public records of Broward County, Florida, a payment and performance bond in an amount at least equal to the Contract Price with a surety insurer authorized to do business in the State of Florida as surety, ("Bond"), in accordance with [Section 255.05, Florida Statutes](#), as may be amended or revised, as security for the faithful performance and payment of all of the DBF's obligations under the Contract Documents.

The successful bidder shall furnish a performance and payment bond in compliance with Section 255.05, Florida Statutes, written by a Corporate Surety company, holding a Certificate of Authority from the Secretary of the Treasury of the United States as acceptable sureties on federal bonds, in an amount equal to the total amount payable by the terms of the contract, executed and issued by a Resident Agent licensed by and having an office in the State of Florida, representing such Corporate Surety, conditioned for the due and faithful performance of the work, and providing in addition to all other conditions, that if the DBF, or his or its subcontractors, fail to duly pay for any labor, materials, or other supplies used or consumed by such DBF, or his or its subcontractor or subcontractors, in performance of the work contracted to be done, the Surety will pay the same in the amount not exceeding the sum provided in such bonds, together with interest at the rate of fifteen percent (15%) per annum, and that they shall indemnify and save harmless the City of Fort Lauderdale to the extent of any and all payments in connection with carrying out of the contract, which the City may be required to make under the law.

The DBF is required at all times to have a valid surety bond in force covering the work being performed. A failure to have such bond in force at any time shall constitute a default on the part of the DBF. A bond written by a surety, that becomes disqualified to do business in the State of Florida, shall automatically constitute a failure on the part of the DBF to meet the above requirements.

Such bond shall continue in effect for one (1) year after completion and acceptance of the work with liability equal to at least twenty-five percent (25%) of contract price, or an additional bond shall be conditioned that the DBF will correct any defective or faulty work or material which appear within one (1) year after completion of the contract, upon notification by the

City, except in contracts which are concerned solely with demolition work, in which cases twenty-five percent (25%) liability will not be applicable.

Insurance Requirements

As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the DBF, at its sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the DBF. The DBF shall provide the City a certificate of insurance evidencing such coverage. The DBF's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the DBF shall not be interpreted as limiting the DBF's liability and obligations under this Agreement. All insurance policies shall be through insurers authorized or eligible to write policies in the State of Florida and possess an A.M. Best rating of A-, VII or better, subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be relied upon by the DBF for assessing the extent or determining appropriate types and limits of coverage to protect the DBF against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the DBF under this Agreement.

The following insurance policies/coverages are required:

Commercial General Liability

Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- \$1,000,000 each occurrence and \$2,000,000 aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- \$1,000,000 each occurrence and \$2,000,000 aggregate for Products and Completed Operations

Policy must include coverage for Contractual Liability and Independent Consultants.

The City, a Florida municipal corporation, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of the DBF. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, and volunteers.

Business Automobile Liability

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$1,000,000 combined single limit each accident.

If the DBF does not own vehicles, the DBF shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Professional Liability and/or Errors and Omissions

Coverage must be afforded for Wrongful Acts in an amount not less than \$1,000,000 each claim and \$2,000,000 aggregate.

DBF must keep insurance in force until the third anniversary of expiration of this Agreement or the third anniversary of acceptance of work by the City.

Workers' Compensation and Employer's Liability

Coverage must be afforded per Chapter 440, Florida Statutes. Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

The DBF waives, and the DBF shall ensure that the DBF's insurance carrier waives, all subrogation rights against the City, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 00 03 13 Waiver of our Right to Recover from Others or equivalent.

The DBF must be in compliance with all applicable State and federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act and the Jones Act, if applicable.

Insurance Certificate Requirements

- a. The DBF shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than ten (10) days prior to the start of work contemplated in this Agreement.
- b. The DBF shall provide to the City a Certificate of Insurance having a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
- c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the DBF to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
- d. In the event the Agreement term goes beyond the expiration date of the insurance policy, the DBF shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.
- e. The Certificate of Insurance shall indicate whether coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the Certificate of Insurance must show a retroactive date, which shall be the effective date of the initial contract or prior.
- f. The City shall be named as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
- g. The City shall be granted a Waiver of Subrogation on the DBF's Workers' Compensation insurance policy.
- h. The title of the Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the Certificate of Insurance.

The Certificate Holder should read as follows:

City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301

The DBF has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at the DBF's expense.

If the DBF's primary insurance policy/policies do not meet the minimum requirements, as set forth in this Agreement, the DBF may provide evidence of an Umbrella/Excess insurance policy to comply with this requirement.

The DBF's insurance coverage shall be primary insurance as respects to the City, a Florida municipal corporation, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, a Florida municipal corporation, its officials, employees, or volunteers shall be non-contributory.

Any exclusion or provision in any insurance policy maintained by the DBF that excludes coverage required in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, or until this Agreement is terminated, whichever is later. Any lapse in coverage shall be considered breach of contract. In addition, DBF must provide to the City confirmation of coverage renewal via an updated certificate should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of DBF's insurance policies.

The DBF shall provide notice of any and all claims, accidents, and any other occurrences associated with this Agreement to the DBF's insurance company or companies and the City's Risk Management office, as soon as practical.

It is the DBF's responsibility to ensure that any and all of the DBF's independent contractors and subcontractors comply with these insurance requirements. All coverages for independent contractors and subcontractors shall be subject to all of the applicable requirements stated herein. Any and all deficiencies are the responsibility of the DBF.

Loss Control/Safety

Precaution shall be exercised at all times by the DBF for the protection of all persons, including employees, and property. The DBF shall comply with all laws, regulations, or ordinances relating to safety and health, and shall make special effort to detect hazardous conditions and shall take prompt action where loss control/safety measures should reasonably be expected.

The City may order work to be stopped if conditions exist that present immediate danger to persons or property. The DBF acknowledges that such stoppage will not shift responsibility for any loss or damages from the DBF to the City.

2.9 Invoices/Payment

A payment schedule based upon agreed upon deliverables may be developed with the awarded vendor.

The DBF shall submit a proposed schedule of values, after contract award, in a form acceptable to the City and will be required to be approved by the City before any design Work on this Project can commence. The proposed schedule of values shall be broken into two phases for the design and the construction.

During the design phase, the DBF may submit a request for payment monthly based upon percentage of completion of the final plans and specifications. Payment during the construction phase will be based upon percentage of work/inspections completed for each item in the approved schedule of values. DBF requisition for payment shall show a complete breakdown of the Project components, and the amount due, together with such supporting evidence, as may be required by the Project Manager (PM).

The City agrees that it will pay the DBF per Florida Statutes 218.735. If, at any time during the contract, the City shall not approve or accept the DBF's work product, and an agreement cannot be reached between the City and the DBF to resolve the problem to the City's satisfaction, the City shall negotiate with the DBF on a payment for the work completed and usable to the City. This negotiated payment shall be based on the overall task or project breakdown, relative to the percentage of work completed.

Payment of invoices from the DBF shall be retained by the City per Florida Statute 255.078, until the Project has obtained Final Completion, receipt of as-built, and been accepted by the City.

2.10 Payment Method

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to payment by credit card via MasterCard or Visa. This allows you as a vendor of the City of Fort Lauderdale to receive your payment fast and safely. No more waiting for checks to be printed and mailed. Payments will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, firms must presently have the ability to accept credit card payment or take whatever steps necessary to implement acceptance of a credit card before the commencement of a contract. See Contract Payment Method form attached.

2.11 Price Proposal

A total Price Proposal (proposed Contract Price) shall be submitted on the Price Proposal Form. The Price Schedule breakdown shall consist of a Not-To-Exceed, Guaranteed Maximum Price (GMP) amount. The Price Proposal shall be based upon and include any and all costs or expenses to be incurred by the DBF in implementing, fulfilling and completing all aspects of the Design-Build Project. The information must include but is not limited to, the design, plans approval, permitting, construction and activation of the project in accordance with the requirements set forth in the City's Request for Proposals and the requirement of any and all agencies or organizations having jurisdiction for project review, permit approval or the design, construction, occupancy, activation, use or operation of the project, or use of the property on which the project is located.

The Price Proposal, in addition to all direct costs and expenses, shall include all other indirect costs and expenses including but not limited to, such costs as the Design-Builder's general, administrative and overhead costs, project management and supervisory costs, all fees, taxes, labor, direct and indirect payroll costs, insurance and bond costs, cost of equipment, materials, tools, transportation, and service fee (profit).

2.12 Bid Allowance/Reimbursable

Allowance for Permits: Payments will be made to the DBF based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The amount indicated is intended to be sufficient to cover the entire project. If the City Permit fees exceed the allowance indicated, the City will reimburse the DBF the actual amount of City Permit Fees required for project completion.

| Allowance | \$ |
|-----------------------------------|--------|
| Permit fees and testing allowance | 10,000 |
| TOTAL | 10,000 |

2.13 City Project Manager

The Project Manager is hereby designated by the City as, Krishan Kandial. The Project Manager will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the Contract Documents in connection with completion of the work in accordance with this Agreement.

For information or questions concerning technical specifications, please utilize the Question/Answer platform provided by BIDSYNC at www.bidsync.com. Questions of a material nature must be received prior to the cut-off date specified in the solicitation.

2.14 Liquidated Damages

Upon failure of the DBF to complete the work within the total specified period of time, plus approved time extension, DBF shall pay to the City the sum of **One Thousand Five Hundred Dollars and 00/100 Dollars (\$1500.00)** for each and every calendar day that the completion of the work is delayed beyond the time specified in this Agreement for completion.

The time frame for liquidated damages shall not commence and thus shall not be tolled until the Project Manager submits the punch list to the DBF. These amounts are not penalties but are liquidated damages to City for its inability to obtain full beneficial use of the Project. Liquidated damages are fixed and agreed upon between the parties, recognizing the impossibility of precisely ascertaining the amount of damages that will be sustained by City as consequence of such delay.

2.16 Public Entity Crimes

Proposer, by submitting a proposal, certifies that neither the proposer nor any of the Proposer's principals has been placed on the convicted vendor list as defined in Section 287.133, Florida Statutes (2018), as may be amended or revised. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime

may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

2.17 Work Schedule

Monday – Friday 7:00 am – 7:00 pm. City Inspector hours are 8:00 a.m. to 4:30 p.m. Any inspection requested by the DBF outside those hours will be considered overtime to be paid by the DBF.

Inspection Overtime Cost: \$100/hr.

2.18 Contract

The proposer to whom award is made shall execute a written contract to do the work and maintain the same in good repair until final acceptance by the proper authorities, and shall furnish good and sufficient bonds as specified within fifteen (15) days after receiving such contract for execution. If the bidder to whom the first award is made fails to enter into a contract as provided, the award may be annulled and the contract let to the next highest ranked bidder who is reliable, responsible, and responsive in the opinion of the City, and that proposer shall fulfill every stipulation and obligation as if such proposer were the original highest ranked bidder.

****END OF SECTION 2****

SECTION 3 SCOPE OF WORK

3.1 Project Objective

The CITY has re-issued this Request for Proposal (RFP) to Firms that submitted a response to RFP 12443-916 Design Build Pump Station B-4 Force Main P12567, released September 4, 2020, to provide design-build services for the design, permitting, construction, testing and startup of the Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567, in accordance with the terms, conditions, and specifications for the Project (PROJECT).

This project is located along Bayview Drive from pump station B-4 (located in George English Park) to the intersection of NE 21st St and Bayview Drive., in the City of Fort Lauderdale. The work to be accomplished under this contract includes, but is not limited to, design, permitting, construction, testing and startup of: One new 24-inch nominal internal diameter force main along Bayview Drive utilizing high-density polyethylene pipe installed by horizontal directional drilling (HDD) and ductile iron pipe for connections via open-cut installation as required. Connect proposed piping on the southern end to the discharge piping of Pump Station B-4. Connect proposed piping to the 24-inch stub out near NE 21st Street and Bayview Drive. Restore work area including City park area damaged by work as required. Relocate water main and reconnect services in conflict as required.

Included in the scope of work are design, permitting and construction, construction management services, as well as inspection, construction certification and all associated work delineated herein or determined by the DBF as required to meet the Project intent. The RFP Documents, including the DCP, Technical Specifications, all exhibits and attachments, and the successful proposal, shall form the terms and conditions of the Contract.

The DBF shall be responsible for design, surveying, geotechnical exploration, preparation of completed permit submittal packages and procurement of all required permits for construction, construction phasing, maintenance of traffic and all other related work or services.

3.2 Project Scope

The selected DBF shall perform the complete design, permitting, and construction of all aspects of the PROJECT to fulfill the intent of the PROJECT as described in this Design Criteria Package (DCP) and all supporting documents. Included in the PROJECT is the acquisition of all tools, equipment, materials, and other supplies including but not limited to fuel, power, water, and communication devices required to complete the PROJECT. The work also includes the performance of all labor, work, and other operations required to complete the PROJECT. All work must be complete with all work, materials, and services not directly specified in the Contract Documents but necessary for the completion of the PROJECT to fulfill the intent of the CITY performed and installed by the DBF at no additional cost to the CITY above what is agreed upon in the Contract Documents.

PROJECT shall include:

Additional to the design, permitting, and construction of the PROJECT, the DBF is to perform inspections, construction certification, construction management, public involvement, and all associated work described in the DCP or as determined necessary by the DBF and confirmed by the CITY to fulfill the PROJECT intent. The terms and conditions of the contract shall consist of the RFP documents including the DCP with all exhibits and attachments in addition to the proposal accepted by the CITY.

The DBF will be responsible for the complete design, surveying, permit submittal packages and procurement of all required construction permits that have not been previously acquired by the CITY, construction phasing, dewatering, maintenance of traffic, public involvement, and all other related work/services.

This DCP conveys the minimum requirements of the CITY regarding the design, construction, maintenance of traffic operations, management, and scheduling of the PROJECT including any scheduling and coordination with local, county, and state governments and regulating agencies necessary to obtain permits for construction.

3.3 Project Requirements

The selected DBF must use effective project management practices while working on the PROJECT. Included in project management is clear communication with the CITY and other parties involved in the PROJECT, management of time and resources, and documentation of all services and communication. Contract administration and technical reviews of all work pertaining to the PROJECT will be performed by the CITY.

3.3.1 Site Inventory and Evaluation of City's Criteria Confirmation

1. Site investigations, including but not limited to survey, subsurface utility investigations, geotechnical investigations, environmental engineering, to verify existing conditions if necessary.
2. Preliminary evaluation of proposed site use, material selection, construction systems and equipment and provide recommendations on constructability, time, labor and scheduling factors related to project costs.
3. No inspection, failure to inspect, or waiver of inspection on the part of the City shall relieve the DBF of their duty to complete the Work as described in this RFP.
4. DBF agrees that the price specified on the Price Proposal Form is based on the DBF examination of the site and that no claim for additional compensation shall be made if the conditions encountered differ from those anticipated by such examination.

3.3.2 Design and Construction Criteria

The selected DBF shall take a comprehensive and thorough technical approach to completing the design-build operation outlined for the PROJECT and the minimum requirements set forth in the DCP in Exhibit A and technical requirement incorporated herein as Exhibit B. Submitted technical proposals must convey that the DBF has a complete understanding of the PROJECT, its intent, and CITY objectives. Additionally, the technical proposal shall address the following items:

1. Completion of construction documents for the PROJECT which must have emergency contact information as required by the CITY.
2. Procurement of all required construction permits from local, state, and federal agencies including but not limited to the Florida Department of Transportation, Florida Department of Environmental Protection, South Florida Water Management District, Broward County Environmental Protection and Growth Management Department, Broward County Traffic Engineering Division, Broward County Health Department, and the City of Fort Lauderdale. The DBF

must develop permitting strategies and determine possible issues, testing requirements, and timing for the PROJECT.

3. Identification quality control/quality assurance measures to be performed for the PROJECT.
4. Production of signed and sealed record drawings following completion of construction of the PROJECT.

3.3.3 Detailed Description

The technical proposal submitted by the DBF shall demonstrate a comprehension of the following design aspects:

1. Local subsurface conditions and associated geotechnical data.
2. Open cut excavation and backfilling method of installing pipe.
3. HDD method of installing pipe.
4. Connection of new pipe to existing, in-service utilities.
5. Landscaping and pavement restoration.
6. Maintenance of traffic operations.
7. Dewatering.
8. Erosion and Sediment Control.

3.3.4 Governing Regulations

The selected DBF shall provide services in compliance with all regulations and guidelines created by the City of Fort Lauderdale, Broward County Environmental Protection and Growth Management Department, Broward County Health Department, South Florida Water Management District, Florida Department of Environmental Protection, and the Occupational Safety and Health Administration. These regulations and guidelines are to be followed by the selected DBF except where explicitly described in this document. The most recent editions of the following publications must be used for the completion of the PROJECT:

1. Broward County Environmental Protection and Growth Management Department – A Consulting Engineer's Guide for a Wastewater Collection/Transmission System Construction License Application
2. Florida Building Code
3. South Florida Water Management District – Environmental Resource Permit Information Manual
4. OSHA Regulations for Construction – Title 29, Part 1926, Construction Safety and Health Regulations, Code of Federal Regulations
5. OSHA Standards – Title 29, Part 1910, Occupational Safety and Health Standards, Code of Federal Regulations
6. Federal Highway Administration - Manual on Uniform Traffic Control Devices

3.4 Services and Materials Provided by the City

A project manager will represent the CITY as the technical representative of the PROJECT.

1. Review of submitted design for the PROJECT.
2. Construction observations and inspections of the PROJECT at will of the CITY.

3. Participation in the CITY's Tax Saver Program for the purchase of goods and supplies required for the completion of the PROJECT.

3.5 Existing Underground Utility Information

There are existing underground utilities in the PROJECT site. Limited information on the location of these utilities has been provided in Exhibit D and Exhibit E. The CITY does not assume responsibility for the accuracy of the provided existing underground utility documents or liability if the locations of these utilities differ from the documents provided. It is the responsibility of the DBF to confirm actual location of existing underground utilities.

3.6 CADD Standards

All submitted design drawings for the PROJECT shall meet the standards set by the CITY in the "City of Fort Lauderdale Public Works Engineering & Architectural Department CADD Specifications for Project Drawings" (hereinafter referred to as CITY CADD Standards). The selected DBF will comply with the most recent edition of the CITY CADD Standards in place at the time of contract execution. Exhibit F includes a copy of the CITY CADD Standards.

3.7 Provisions for Utilities, Dewatering, Staging and Parking

The selected DBF will be required to pay for all utilities needed for the completion of the PROJECT.

The selected DBF shall only perform dewatering activities after acquiring all applicable permits from regulating agencies with jurisdiction in the PROJECT area. Any dewatering operations performed by the DBF must meet conditions of applicable permits. Any dewatering activities performed by the DBF without proper permits or without meeting permit conditions may result in punitive actions to the DBF by the CITY and Broward County.

The selected DBF will be responsible for the coordination of parking and staging area with the CITY prior to mobilization of equipment and crews into the area. Parking and staging areas must remain free of any form of refuse and the removal of any remaining refuse will be the responsibility of the selected DBF.

3.8 Project Meetings

The CITY shall require meetings throughout the PROJECT which require the participation of the CITY, selected DBF, all subcontractors, all sub consultants, representatives of governmental agencies with jurisdiction in the PROJECT area, and any others as requested by the CITY and/or DBF. All meetings shall be held at a central site that is convenient to all parties.

Following the written Notice to Proceed, the DBF shall coordinate with the CITY to hold a preconstruction meeting. All following meetings shall likewise be organized by the DBF upon instruction from the CITY. The DBF shall prepare meeting minutes.

3.9 Construction Duration

Time is of the essence for the DBF's performance of the Work. The selected DBF is expected to complete the PROJECT as expeditiously as possible. At minimum, the selected DBF must adhere to the following schedule as set by the CITY:

| MILESTONE | CALENDAR DAYS FROM NOTICE TO PROCEED (COMPLETION DATE) |
|-----------------------------------|---|
| Assumed Notice to Proceed Date | TBD |
| Substantial Completion of PROJECT | 180 |
| Final Completion of PROJECT | 210 |

Within ten days after notification of award and as a condition precedent to executing the Contract, prior to the start of any work, the DBF shall submit their preliminary construction schedule to City for approval which shall be consistent with the Schedule in its Proposal. The Schedule shall be written in sufficient detail to show the chronological relationship of all major aspects of the project, including estimated starting and completion dates of various activities, design phase, procurement of materials, scheduling of equipment, and construction phase with a level of detail commensurate with the level of detail in the Proposal. The schedule is subject to approval by City.

The selected DBF is responsible for obtaining all permits needed for the PROJECT not already obtained by the CITY. The procurement of permits is critical for the completion of the PROJECT and needs to be in consideration of the selected DBF.

3.10 General

Firms that submitted a response to RFP 12443-916 Design Build Pump Station B-4 Force Main P12567, are eligible to submit a proposal to RFP 12470-416 Re-Bid Design Build Pump Station B-4 Redundant Force Main P12567.

NOTE: NO EXCEPTIONS/CHANGES TO ATTACHED SAMPLE CONTRACT WILL BE CONSIDERED.

3.11 Presentation Meeting

Approximately two weeks after proposal opening, all responsive and responsible firms will be invited to virtual Oral Presentations. Presenting Firms presentations are limited to thirty (30) minutes, immediately followed up with a City Staff/Firm fifteen (15) minute Question/Answer session. The meeting notice will be posted to the City's website. The meeting notice will list the date of the presentation meetings, name of presenting firms, including the time and link to the Evaluation Committee Zoom electronic public discussions meeting. The Evaluation Committee will meet only once, to hear presentations, followed by final ranking after presentations are completed.

Firms presentation order of presenting, will be based on the alphabetical first name of firms. For example, Apple Inc., will present first, while Zebra LLC, will present last.

Below are subject topics to be included in presentation.

1. What is your current staffing availability and workload? What adjustments and changes will you make to ensure this project remains a priority and gets the attention it needs?
2. What work will be self-performed by the DBF to meet the 40% dollar value requirement of this RFP?

3. Elaborate on your approach for providing public outreach, notifying residents and businesses about disruptions (e.g. MOT, construction phasing schedule, lane closures/reductions, etc.).
4. Provide a slide that summarizes the HDD and open-cut work that best represents the project.
5. Explain the method to be used for ground dewatering during open-cut work which will ensure that the waterbodies will be protected from illicit discharge to meet FDEP and Broward County standards for turbidity levels.

END OF SECTION 3*

SECTION 4 SUBMITTAL REQUIREMENTS

Section IV – Submittal Requirements

4.1 Instructions

- 4.1.1** The City of Fort Lauderdale uses BIDSYNC (www.bidsync.com) to administer the competitive solicitation process, including but not limited to soliciting responses, issuing addenda, posting results and issuing notification of an intended decision. There is no charge to register and download the RFP from BIDSYNC. Offerors are strongly encouraged to read the various vendor Guides and Tutorials available in BIDSNYC well in advance of their intention of submitting a response to ensure familiarity with the use of BIDSYNC. The City shall not be responsible for an Offeror's inability to submit a response by the end date and time for any reason, including issues arising from the use of BIDSYNC.
- 4.1.2** Careful attention must be given to all requested items contained in this RFP. Consultants are invited to submit responses in accordance with the requirements of this RFP. Please read entire solicitation before submitting a proposal. Consultants must provide a response to each requirement of the RFP. Responses should be prepared in a concise manner with an emphasis on completeness and clarity.

NOTE: NO EXCEPTIONS TO ATTACHED SAMPLE CONTRACT WILL BE CONSIDERED

- 4.1.3** All information submitted by DBF shall be typewritten or provided as otherwise instructed to in the RFP. DBFs shall use and submit any applicable or required forms provided by the City and attach such to their response. Failure to use the forms may cause the response to be rejected and deemed non-responsive.
- 4.1.4** Responses shall be submitted by an authorized representative of the firm. Responses must be submitted in the business entities name by the President, Partner, Officer or Representative authorized to contractually bind the business entity. Responses shall include an attachment evidencing that the individual submitting the response, does in fact have the required authority stated herein.
- 4.1.5** All responses will become the property of the City. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of the City. All proposals will become the property of the City. The Proposer's response to the RFP is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this RFP and the Contract to be executed for this RFP, subject to the provisions of Chapter 119.07 of the Florida Statutes. Any language contained in the Proposer's response to the RFP purporting to require confidentiality of any portion of the Proposer's response to the RFP, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that

it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the RFP constitutes a Trade Secret. The city's determination of whether an exemption applies shall be final, and the Proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of the City.

IF THE DBF HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE DBF'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT: (954-828-5002, PRRCONTRACT@FORTLAUDERDALE.GOV, CITY **CLERK'S OFFICE, 100** NORTH ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301)

DBF shall:

1. Keep and maintain public records that ordinarily and necessarily would be required by the City in order to perform the service.
2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2018), as may be amended or revised, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this contract if the DBF does not transfer the records to the City.
4. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the DBF or keep and maintain public records required by the City to perform the service. If the DBF transfers all public records to the City upon completion of this Contract, the DBF shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the DBF keeps and maintains public records upon completion of this Contract, the DBF shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

4.1.6 Submittals

Please be advised that effective immediately, and until further notice, all Technical and Price Proposals offers to this Request for Proposal, shall be submitted “**electronically**” via BidSync and will be opened “**electronically**” via BIDSYNC.COM at the date and time indicated on the solicitation. **PAPER BID SUBMITTALS WILL NOT BE ACCEPTED. BIDS MUST BE SUBMITTED ELECTRONICALLY VIA BIDSYNC.COM**

The DBF should concisely follow the format set out herein and provide all the information requested:

It is the sole responsibility of the Proposer to ensure their proposal is received on or before the date and time stated, in the specified number of copies and in the format stated herein.

4.2 Contents of Qualification Statement/Submittals:

The following information and documents are required to be provided with DBF response to this RFP. Failure to do so may deem your Proposal non-responsive or non-responsible. The City deems certain documentation and information important in the determination of responsiveness/responsibility, and for the purpose of evaluating responses. Responses should seek to avoid information in excess of that requested, must be concise, and must specifically address the issues of this RFP. The following checklist is not inclusive of all the information that may be necessary to properly evaluate the response and meet the requirements of the scope of work and/or specifications. Additional documents and information should be provided as deemed appropriate by the Proposer in response to specific requirements stated herein or through the RFP.

Table of Contents

4.2.1 Proposal Contact Person Information

Indicate which firm/company is the Lead Design-Builder whose signature grants authority to bind submitter to the provisions of this RFP.

Identify the following:

- Legal name of proposer(s)
- Federal employee identification (FEIN) number
- Mailing address City State Zip
- Contact person's name
- Title
- Email address
- Phone number
- Fax number

Any firm/company qualifying as a minority entity to this RFP should also be identified in the same manner. If there are multiple firms proposed as one team, each firm must be identified.

4.2.2 QUALIFICATIONS OF THE FIRM

Minimum Qualifications

The Proposer shall have the following Minimum Qualifications to be considered eligible to submit a Proposal in response to this Solicitation. It is the responsibility of the Proposer to ensure and certify that it meets the Minimum Qualifications stated below.

The Design Build Firm shall have previous design and construction experience in underground water and wastewater piping installation in the State of Florida within the last ten (10) years. Proposers shall submit proof of design and construction experience for a minimum of three (3) projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by DBF; and client's name, address, telephone number and email address.

Licensure

- The Proposer shall be either a State of Florida certified General Contractor, or a State of Florida certified Underground Utility Contractor, at the time of submittal of its RFP response, and shall maintain licensure for the duration of the Design-Build Contract.
- The Proposer's Engineer shall be a State of Florida certified Professional Engineer and shall maintain licensure for the duration of the Design-Build Contract.

Business Structure

- Provide a brief introduction narrative letter highlighting the qualifications of the firm in providing the professional services as it relates specifically to the project;
- Corporations, Joint Ventures, LLC or Partnerships – submit a copy indicating when the corporation was organized as a legal entity in the State of Florida, corporation number. Shall be a minimum of ten (10) years to do business in the State of Florida.
- Any firm(s) involved in a joint venture in this Proposal will be evaluated individually. An executed copy of the joint venture agreement must be submitted with the proposal. Percentages of participation of fees must be clearly stated for each joint venture partner;
- Include copies of all active State of Florida professional licenses, including professional engineers, State of Florida certifications; State of Florida certified general contractors license with unlimited building classification, held by the Firm under Florida Law to provide the required services;
- Names of Key Personnel and Role in this project
- Name, title, name of firm, phone number, fax number, and email
- Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for both Professional Liability, General Liability, Automobile Liability, Worker's Compensation, and Professional Liability and/or Errors and Omissions, evidencing the dollar amounts of the coverage.

Workload of the Firm

For the prime DBF, or in the case of a Joint Venture (JV), list all completed and active projects that DBF or JV has managed within the past five years. In addition, list all projected projects and dollar value that DBF or JV will be working on in the near future.

Projected projects will be defined as a project(s) that DBF or JV has been awarded a contract, but the Notice to Proceed has not been issued. Identify any projects that DBF or JV is working on concurrently and dollar value of remaining work. Describe Vendor's approach in managing these projects. Were there or will there be any challenges for any of the listed projects? If so, describe how Vendor dealt with or will deal with the projects' challenges.

Joint Ventures

If applicant is a joint venture, provide a copy of the joint venture agreement that was filed with the State of Florida. All applicants must comply with Chapter 489 Florida Statutes, as well as the Florida Administrative Code **prior to the proposal submission.**

Firms Past Experience

Firms should submit any information they deem appropriate for evaluation of past performance with projects similar in nature to the one under consideration by the City.

- Title of example project;
- Location of example project;
- Client name/owner's representative name, address, phone number, and email;
- Date project started and completed or is anticipated to be completed; Point of contact name and organization which contracted the service who is very familiar with the project and the firm's performance and phone number and email;
- Brief description of Project relevance to this contract;
 - Original budget vs. Final cost
 - Principal elements and special features of the project.
 - Details of project value engineering; cost savings realized; innovative solutions; project time enhancement; value added efforts; etc.
 - Present status of project.

Key Personnel

The DBF shall provide a maximum of seven (7) resumes of the key staff to be assigned to perform the Work. The resumes provided shall identify the Project Manager, Design Manager, DBF or General Superintendent, Project Quality Control Manager, Scheduler/Project Controls Specialist, Project Health and Safety Manager. These Primary positions shall only serve in one (1) role.

NOTE: The Project Manager must be an employee from the DBF or JV submitting the Proposal and not a Subconsultant or not a Subcontractor. Persons whose resumes are submitted as a Team Member must actually perform the Work unless DBF/JV receives prior approval by the CITY Project Manager to use a backup Team Member.

Provide an organization chart for proposed Team Member key personnel staff, including subconsultants and subcontractors.

Concerning Subconsultants, suppliers, and Others

The amount of work that is sublet by the DBF, including Joint Ventures, shall be limited by the condition that the DBF, or in the case of a Joint Ventures, shall with his own organization, perform at least forty percent (40%) of the total dollar amount of the Work to be performed under the Agreement.

Safety

Most recent Experience Modification Rate (EMR) (provided on letterhead from current insurance provider) not greater than 1.0; Five-year average OSHA Total Recordable Incident Rates (TRIR) of less than 3.4; Five-year average OSHA Days Away, Restricted or Transferred (DART) Rate of less than 2.1; and Five-year average OSHA Days Away from Work Case (DAWC) rate of less than 1.0.

4.2.3 QUALIFICATIONS OF THE TEAM

The DBF must identify all design and construction disciplines and specialty consultants that the DBF intends to employ in the design and construction of this Project.

- Name and title of each proposed team member;
- Years' experience;
- Area of responsibility;
- Firm name and location;
- Education – provide information on the highest relevant academic degree(s) received and areas of specialization;
- Current professional registration; license(s)
- Provide information on any other professional qualifications relating to this contract such as publications, organizational memberships, certifications, training, awards, and foreign language capabilities;

For each key personnel, a minimum of three (3) alternate delivery projects on which they held a key delivery role should be included. Resumes should clearly identify and describe the role of the Key Personnel, in each project listed. Resumes shall also identify any specialty or technical process expertise. **Resumes shall not be more than two (2) pages each on 8.5" x 11" sized paper. No more than seven (7) resumes should be submitted.**

Sub-consultant(s)

DBF must clearly reflect in its Proposal any Sub-consultant including but not limited to the Project Manager, Design Manager, DBF or General Superintendent, Project Quality Control Manager, Scheduler/Project Controls Specialists, Project Health and Safety Manager (collectively, the "Team Members"), proposed to be utilized along with a summary of their background and qualifications, including but not limited to name of the sub-consultant, location of place of business, service(s) the sub-consultant will provide, license (if applicable), two (2) sub-consultant references, ownership, education, and experience. These Primary positions shall only serve in one (1) role. The City retains the right to accept or reject any Sub-consultant proposed.

4.2.4 Project Manager's Experience

Provide a comprehensive summary of the experience and qualifications of the individual(s) who will be selected to serve as the project managers overseeing the design and construction for the City. Individual(s) must have a minimum of five (5) years' experience in required discipline and have served as project manager on a minimum of three (3) previous occasions. Include their related work experience and qualification and copies of active licenses and certifications. Include the length of tenure with Firm.

All proposed team Project Managers must be committed for the duration of the Project and must have the City's approval prior to replacement.

Example Projects

- Illustrate proposed team member's qualifications preferably where multiple team members worked together in the past five (5) years on similar projects, including projects that involve design, permitting, and construction including:
 - Title and location of project
 - Year started and completed
 - Project owner, point of contact, point of contact phone number, and email
 - Initial cost of project and actual cost at completion
 - Brief description of project and relevance to this project.
- Provide organizational chart of proposed team:
 - Indicate names and titles of all team members and the firm they are associated with.
- Resumes of key team members proposed for this project.

4.2.5 Project Methodology & Approach

- Provide a statement of the firms understanding of the project and methodology and approach to managing the project. Include a plan for completing the specified work including ability to meet time and budget requirements;
- Provide a conceptual design for the proposed Project. Include design, construction, planning, coordination, scheduling, maintainability and any other areas that utilize new or time saving techniques to accomplish the work in a timely manner without sacrificing quality. Include the maintainability of the water main and force main;
- Describe approach to minimizing impact to surrounding neighbors, businesses, and travelling public;
- Describe approach for minimizing lane closures, lanes reductions, maintenance of traffic (MOT) plan, and reducing traffic impacts;
- Describe means and methods for expediting project schedule;
- Provide information on your firm's current workload and how this project will fit into your workload;
- Describe available facilities, technological capabilities and other available resources you offer for the project.

4.2.6 References

The DBF shall have previous experience in the design, permitting, construction aspects of Pump Station Redundant Force Main work, and shall have previous

construction experience in underground water and wastewater piping installation as described in this RFP, in the State of Florida within the last ten (10) years.

DBF shall submit proof of design, permitting, and construction experience for a minimum of three (3) projects or any information they deem appropriate for evaluation of past performance with projects similar in scope and scale (or larger) to the one under consideration; and shall, for each project listed, including but not limited to:

- Client Name, address, contact person telephone, fax numbers, and email addresses.
- Project name and overall scope.
- Dates of construction.
- Description of work that was self-performed.
- Details of project value engineering; cost savings realized; innovative solutions; project time enhancement; value added efforts; etc.
- Total cost of the construction, estimated and actual.

The DBF shall be responsible for verifying reference contact name, phone number, email addresses, and contact place of employment, submitted as proof of project experience.

Note: Do not include only the City of Fort Lauderdale work or staff references as a demonstration of your capabilities. The Committee is interested in details of work experience and references other than the City of Fort Lauderdale.

Proposer's shall mark any pages of the Submittal it considers proprietary or confidential accordingly. Proposer shall state what proprietary or confidential governing law the Proposer is stating to claim such relief. Information will be treated as such by the City; provided, however, that the City cannot ensure that this information would not be subject to release pursuant to a public disclosure request. If a request for such information is received, the City will promptly notify the Proposer of such request and it shall be the Proposer's sole burden and responsibility to immediately seek and obtain such injunctive or other relief from the Courts and to immediately serve notice of the same upon the party requesting the public records.

4.2.7 Price Proposal Form

Proposer must submit the Price Proposal Form included in this RFP. In addition to submitting the required Price Proposal Form, the Proposer must include a separate Schedule of Values for each phase or task of work. This Schedule of Values and Price Proposal form shall also be submitted in electronic Microsoft Excel format with detailed breakouts of pricing and supporting calculations and organizational structure. The price proposal shall be based upon and include any and all costs or expenses to be incurred by the DBF in implementing, fulfilling and completing all aspects of the design-build project. The price proposal, in addition to all direct costs and expenses, shall include all other indirect costs and expenses including but not limited to, such costs as the design-builder's general, administrative and overhead costs, project management and supervisory costs, all fees, changes and taxes,

labor, direct and indirect payroll costs, insurance and bond costs, cost of equipment, materials, tools, transportation, and service fee (profit).

4.2.8 Contract Forms

All contract forms must be completed (with all blanks filled in), and executed.

a. Statement of Qualification Certification

Complete and attach the Statement of Qualification Certification.

b. Non-Collusion Statement

This form is to be completed, if applicable, and inserted in this section.

c. Contract Payment Method

This form must be completed and returned with your proposal. Proposers must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

d. Sample Insurance Certificate

Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for both Professional Liability and General Liability and the dollar amounts of the coverage.

e. Non-Discrimination Certification Form

f. Trench Safety

g. Prime DBF Identification

h. CITB Specific References Form

i. E-Verify Affirmation Statement

j. Acknowledgment of Addenda

k. Proposal Bond

- 4.3** Before awarding a contract, the City reserves the right to require that a firm submit such evidence of his/her qualifications as the City may deem necessary. Further, the City may consider any evidence of the financial, technical, and other qualifications and abilities of a firm or principals, including previous experiences of same with the City and performance evaluation for services, in making the award in the best interest of the City.

****END OF SECTION 4****

SECTION 5 EVALUATION AND SELECTION CRITERIA

5.1 Evaluation Criteria and Scoring (100 Percentage)

Design-Build Team's responses to this RFP will be evaluated and ranked by an RFP Evaluation Committee. Submittals shall be evaluated based upon the information and references contained in the Proposals as submitted.

| | |
|---------------------------------------|------------|
| Qualifications of the Firm & the Team | 30 Percent |
| Project Methodology & Approach | 30 Percent |
| Price Proposal | 30 Percent |
| References | 10 Percent |

5.2 EVALUATION PROCEDURE Committee

Evaluation of the submittals will be conducted by an Evaluation Committee, consisting of a minimum of three (3) members of City Staff, or other persons selected by the City Manager or designee. All committee members must be present at scheduled evaluation meetings. Submittals shall be evaluated based upon the information and references contained in the Proposals as submitted. Any firm(s) involved in a joint venture in its Proposal will be evaluated individually, as each firm of the joint venture would have to stand on its own merits.

Scoring and Ranking

The City uses a mathematical formula to determine the scoring for each individual responsive and responsible firm based on the weighted criteria stated herein. Each evaluation committee member will rank each firm by criteria, giving their first ranked firm as number 1, the second ranked firm as number 2, and so on. The lowest final ranking score will determine the recommendation by the evaluation committee to the City Manager.

Clarification

During the evaluation process, the City has the right to require any clarification it needs in order to understand the DBF's view and approach to the project scope of the work. Any clarifications to the Proposal made before executing the contract will become part of the final DBF contract.

Negotiations

The City Manager or designee reserves the right to conduct contract negotiations with the selected responsible, responsive DBF. If successful, the DBF and City will enter into a contract for the work. All proposers are considered fully informed as to the intentions of the City regarding the timeframe to prepare and complete contract negotiations.

If the City is unable to negotiate a satisfactory design-build contract with the design-build firm considered to be the most qualified, negotiations with that design-build firm shall be formally terminated. Upon termination of said negotiations, negotiations shall then be undertaken with the second ranked firm, with this process being repeated until an agreement is reached which is then recommended and formally approved by the City Commission or until the short-list is exhausted in which case a new RFP may be undertaken.

The City may withdraw this RFP, reject qualifications or any portion thereof at any time prior to an award, and is not required to furnish a statement of the reason why a particular qualification was not deemed to be the most advantageous to the City.

Consult Design Criteria Professional

The City shall consult with the design criteria professional who prepared the package concerning evaluation of the proposals, approval of detail work and drawings for the project and compliance of project construction with the package.

Award

The City reserves the right to award a contract to that DBF who will best serve the interest of the City. The City reserves the right, based upon its deliberations and in its opinion, to accept or reject any or all submittals. The City also reserves the right to waive minor irregularities or variations of the submittal requirements and RFP process and any informality in any proposal and to reject any or all proposals. The City reserves the right to reduce or delete any of the proposal items.

Upon award of a Contract, in accordance with Florida Statutes, by the City Commission, the City Manager is authorized to execute the Contract on behalf of the City.

At time of award of contract, the City reserves the right to set a guaranteed maximum price limit that may be expended on this project. Contract quantities of any or all items may be increased, reduced, or eliminated to adjust the contract amount to coincide with the amount of work necessary or to bring the contract value to within the established limit.

Exceptions

TIME IS OF THE ESSENCE, NO EXCEPTIONS TO ANY ELEMENT OF THE SOLICITATION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE RFP, DCP, DRAWINGS, CONSTRUCTION TIME FRAME, SAMPLE AGREEMENT, GENERAL TERMS AND CONDITIONS, ETC. SHALL BE CONSIDERED.

****END OF SECTION 5****

SECTION 6 EXHIBITS

- A) Design Criteria Package (DCP)
- B) Technical Specifications
- C) Conceptual Layouts
- D) Existing Utility Information
- E) CADD Standards
- F) Amended Consent Order
- G) PS B-4 As-Built Drawings (dated July 1960)
 - P3574 - PS B-4 Force Main Connection to 42-inch Force Main (dated August 1981)
 - PS B-4 Field Notes from New Force Main Installation (dated August 2001)
 - PS B-4 Field Notes from New Force Main Installation (dated February 2020)
- H) PS B-5 Group II-Pump Station Rehabilitation Project No. 10545 (dated December 2004)
- I) City of Fort Lauderdale Noise Ordinance
- J) City of Fort Lauderdale Standard Details

****END OF SECTION 6****

GENERAL CONDITIONS

Unless otherwise modified in the Projects Special Conditions, the following General Conditions shall be part of the Contract:

GC - 01 - DEFINITIONS - The following words and expressions, or pronouns used in their stead, shall wherever they appear in the Contract and the Contract Documents, be construed as follows:

"Addendum" or "Addenda" - shall mean the additional Contract provisions issued in writing, by the Engineer, prior to the receipt of bids.

"Bid" – shall mean the offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

"Bidder" – shall mean any person, firm, company, corporation or entity submitting a Bid for the Work.

"Bonds" –shall mean bid, performance and payment bonds and other instruments of security, furnished by Contractor and his surety in accordance with the Contract Documents.

"City" – shall mean the City of Fort Lauderdale, Florida, a Florida municipal corporation. In the event the City exercises its regulatory authority as a government body, the exercise of such regulatory authority and the enforcement of any rules, regulations, codes, laws and ordinances shall be deemed to have occurred pursuant to City's authority as a governmental body and shall not be attributable in any manner to the City as a party to this Contract. For the purpose of this Contract, "City" without modification shall mean the City Commission, and/or City Manager or his/her designee(s) as applicable.

"Construction Manager" - shall mean the Public Works Director or his/her designee.

"Construction Project Manager" - shall mean the Public Works Director or his/her designee.

"Consultant" – shall mean a person, firm, company, corporation or other entity employed by the City to perform the professional services for the project.

"Contract Work" - shall mean everything expressed or implied to be required to be furnished and furnished by the Contractor by any one or more of the parts of the Contract Documents referred to in the Contract hereof except Extra Work as hereinafter defined, it being understood that, in case of any inconsistency in or between any part or parts of this Contract, the Public Works Director shall determine which shall prevail.

"Design Documents" – shall mean the construction plans and specifications included as part of a Bid/Proposal Solicitation prepared either by the City or by the Consultant under a separate Agreement with the City.

"Engineer" - shall mean the Public Works Director or his/her designee.

"Extra Work" - shall mean work other than that required by the Contract.

"Inspector" – shall mean an authorized representative of the City assigned to make necessary inspections of materials furnished by Contractor and of the Work performed by Contractor.

"Notice" - shall mean written notice sent by certified United States mail, return receipt requested, or sent by commercial express carrier with acknowledgement of delivery, or via fax or email, or by hand delivery with a request for a written receipt of acknowledgment of delivery and shall be served upon the Contractor either personally or to its place of business listed in the Bid.

"Owner" - shall mean the City of Fort Lauderdale.

"Project Manager" - shall mean the Public Works Director or his/her designee.

"Public Works Director" – shall mean the Public Works Director of the City of Fort Lauderdale, Florida or his/her designee(s).

"Site" - shall mean the area upon or in which the Contractor's operations are carried out and such other areas adjacent thereto as may be designated as such by the Public Works Director.

"Sub-contractor" - shall mean any person, firm, company, corporation or other entity, other than employees of the Contractor, who or which contracts with the contractor, to furnish, or actually furnishes labor and materials, or labor and equipment, or labor, materials and equipment at the site.

"Surety" - shall mean any corporation or entity that executes, as Surety, the Contractor's performance and payment bond securing the performance of this Contract.

GC - 02 - SITE INVESTIGATION AND REPRESENTATION - The Contractor acknowledges that it has satisfied itself as to the nature and location of the Work under the Contract Documents, the general and local conditions of the Site, particularly those bearing upon availability of transportation, disposal, handling and storage of materials, availability of labor, water, electric power, and roads, the conformation and conditions at the ground based on City provided reports, the type of equipment and facilities needed preliminary to and during the prosecution of the Work and all other matters which can in any way affect the Work or the cost thereof under the Contract Documents.

The Contractor acknowledges that it has conducted extensive tests, examinations and investigations and represents and warrants a thorough familiarization with the nature and extent of the Contract Documents, the Work, locality, soil conditions, moisture conditions and all year-round local weather and climate conditions (past and present), and, in reliance on such tests, examination and investigations conducted by Contractor and the Contractor's experts, has determined that no conditions exist that would in any manner affect the Bid Price and that the project can be completed for the Bid Price submitted.

The Contractor, on its own, has made or caused to be made examinations, investigations, tests and studies of reports and related data in addition to those referred above, as Contractor deemed necessary to perform the Work at the Bid price set by the Contractor, within the contract time and in accordance with the other terms and conditions of the Contract Documents and the bid made by the Contractor; and no additional examinations, investigations, tests, reports or similar data are, or will be, required by Contractor to assure that the Work can be done at the Bid price set by the Contractor.

The Contractor further acknowledges that it has satisfied itself based on any geotechnical reports the City may provide and inspection of the project Site as to the character, quality, and quantity of surface and subsurface materials to be encountered from inspecting the site and from evaluating information derived from exploratory work that may have been done by the City or included in the Contract Documents and finds and has further determined that no conditions exist that would in any manner affect the Bid price and that the project can be completed for the Bid price submitted.

Any failure by the Contractor to acquaint itself with all the provided information and information obtained by visiting the project Site will not relieve Contractor from responsibility for properly estimating the difficulty or cost thereof under the Contract Documents. In the event that the actual subsurface conditions vary from the actual City provided reports, the Contractor shall notify the City and the Contract amount may be adjusted depending on the conditions, at the approval of the City.

GC - 03 - SUBSTITUTIONS - If the Contractor desires to use materials and/or products of manufacturer's names different from those specified in the Contract Documents, the Bidder requesting the substitution shall make written application as described herein. The burden of proving the equality of the proposed substitution rests on the Bidder making the request. To be acceptable, the proposed substitution shall meet or exceed all expressed requirements of the Contract Documents and shall be submitted upon the Contractor's letterhead, in addition to the "Contractor's Request for Substitution" form provided by the Public Works Director. The following requirements shall be met in order for the substitution to be considered:

1. Requests for substitution shall reach the Public Works Director no less than ten (10) Working Days prior to the date set for opening of Bids; and
2. Requests for substitution shall be accompanied by such technical data, as the party making the request desires to submit. The Public Works Director will consider reports from reputable independent testing laboratories, verified experience records from previous users and other written information valid in the circumstances; and
3. Requests for substitution shall completely and clearly indicate in what respects the materials and/or products differ from those indicated in the Contract Documents; and
4. Requests for substitution shall be accompanied by the manufacturer's printed recommendations clearly describing the installation, use and care, as applicable, of the proposed substitutions; and
5. Requests for substitution shall be accompanied by a complete schedule of changes in the Contract Documents, if any, which must be made to permit the use of the proposed substitution; and

If a proposed substitution is approved by the Public Works Director, an addendum will be issued to prospective bidders not less than three (3) working days prior to the date set for opening of bids. Unless substitutions are received and approved as described above, the successful Bidder shall be responsible for furnishing materials and products in strict accordance with the Contract Documents.

GC - 04 - CONTROL OF THE WORK - The Public Works Director shall have full control and direction of the Work in all respects. The Public Works Director and/or his authorized designee(s) shall, at all times, have the right to inspect the Work and materials. The Contractor shall furnish all reasonable facilities for obtaining such information, as the Public Works Director may desire respecting the quality of the Work and materials and the manner of conducting the Work. Should the Contractor be directed or permitted to perform night Work, or to vary the period which work is ordinarily carried on in the daytime, he shall give ample notice to the Public Works Director so that proper and adequate inspection may be provided. Such Work shall be done only under such regulations as are furnished in writing by the Public Works Director, and no extra compensation shall be allowed to the Contractor therefore. In the event of night work, the Contractor shall furnish such light, satisfactory to the Public Works Director, as will ensure proper inspection. Nothing herein contained shall relieve the Contractor from compliance with any and all City ordinances relating to noise or Work during prohibited hours.

The Contractor shall keep the Public Works Director informed, a reasonable time in advance, as to his need for grades and lines in order that the same may be furnished and all necessary measurements made for records and for payment with the minimum of inconvenience to the Public Works Director or of delay to the Contractor. The Contractor shall submit to the Public Works Director or Inspector on the job a written request outlining the streets, etc., for which the Contractor desires lines and grades. It is the intention not to delay the Work for the giving of lines and grades, but when necessary, work operations shall be suspended for such reasonable time as the Public Works Director may require for this purpose. However, such cost increases shall be authorized either by the City Manager and/or designee, or the City Commission based upon the purchasing threshold amounts provided for in Chapter 2 of the City of Fort Lauderdale's Code of Ordinances.

GC - 05 - SUB-CONTRACTOR - The Contractor shall not sublet, in whole or any part of the Work without the written consent and approval of the Public Works Director. Within ten (10) days after official notification of starting date, the Contractor must submit in writing, to the Public Works Director, a list of all Sub-contractors. No Work shall be done by any Sub-contractor until such Subcontractor has been officially approved by the Public Works Director. A sub-contractor not appearing on the original list will not be approved without written request submitted to the Public Works Director and approved by the Public Works Director. In all cases, the Contractor shall give his personal attention to the Work of the Sub-contractors and the Sub-contractor is liable to be discharged by the Contractor, at the direction of the Public Works Director, for neglect of duty, incompetence or misconduct.

Acceptance of any sub-contractor, other person, or organization by the Public Works Director shall not constitute a waiver of any right of Public Works Director to reject defective Work or Work not in conformance with the Contract Documents.

Contractor shall be fully responsible for all acts and omissions of his Sub-contractors and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that he is responsible for the acts and omissions of persons directly employed by him. Nothing in the Contract Documents shall create any contractual relationship between City and any sub-contractor or other person or organization having a direct contract with Contractor, nor shall it create any obligation on the part of City to pay or to see to the payment of any moneys due to any sub-contractor or other person, or organization, except as may otherwise be required by law.

GC - 06 - QUANTITIES - It is mutually agreed that the proposal shows the approximate amounts only along with the Plans and the general location. It is also mutually agreed that no change will be made involving any departure from the general scheme of the Work and that no such change involving a material change in cost, either to the City or Contractor, shall be made, except upon written permission of the City. However, the Public Works Director shall have the right to make minor alternations in the line, grade, plan, form or materials of the Work herein contemplated any time before the completion of the same. That if such alterations shall diminish the quantity of the Work to be done, such alterations shall not constitute a claim for damages or anticipated profits. That if such alterations increase the amount of the Work to be done, such increase shall be paid for according to the quantity actually performed and at the unit price or prices stipulated therefore in the Contract.

The City shall, in all cases of dispute, determine the amount or quantity of the several kinds of Work which are to be paid for under this Contract, and shall decide all questions relative to the execution of the same, and such estimates and decisions shall be final and binding.

Any Work not herein specified, which might be fairly implied as included in the Contract, of which the City shall judge, shall be done by the Contractor without extra charge. However, such cost increases shall be authorized either by the City Manager and/or designee, or the City Commission based upon the purchasing threshold amounts provided for in Chapter 2 of the City of Fort Lauderdale's Code of Ordinances.

GC - 07 - NO ORAL CHANGES - Except to the extent expressly set forth in the Contract, no change in, or modification, termination or discharge of the Contract in any form whatsoever, shall be valid or enforceable unless it is in writing and signed by the parties charged, therewith or their duly authorized representative.

GC - 08 - PERMITS AND PROTECTION OF PUBLIC – Permits on file with the City and or those permits to be obtained, shall be considered directive in nature, and will be considered a part of this Contract. A copy of all permits shall be given to the City and become part of the Contract Documents. Terms of permits shall be met prior to acceptance of the Work and release of the final payment.

The Contractor shall be required to observe all the ordinances in relation to obtaining permits for occupying, excavating, or in any way obstructing the streets and alleys. He shall erect and maintain barricades and sufficient safeguards around all excavations, embankments or obstructions; he shall place sufficient warning lights at or near the Work; keep the same burning from sunset to sunrise, employ watchmen, and strictly obey all laws and ordinances controlling or limiting those engaged in similar work.

Where there are telephones, light or power poles, water mains, conduits, pipes or drains or other construction, either public or private, in or on the streets or alleys, the Work shall be so conducted that no interruption or delay will be caused in the operation or use of the same. Proper written notice shall be given, and all the facilities, afforded the owners of such construction encountered or likely to be encountered, as will enable them to preserve the same from injury.

The Contractor shall not be permitted to interfere with public travel and convenience by grading or tearing up streets indiscriminately, but the Work of constructing the various items in this contract shall proceed in an orderly, systematic and progressive manner.

Contractor shall not load nor permit any part of any structure to be loaded with weights that will endanger the structure, nor shall he subject any part of the Work to stresses or pressures that will endanger it.

Where lifting operations involving the use of specialized cranes are required as part of construction, Contractor must undertake the following investigation and submit the results and documentation to the Engineer prior to commencing any lifting operations: marking a very specific area in the field for the placement of the crane; a drawing showing the limitations of the job operation (i.e. not over adjacent properties or pedestrian and high vehicular traffic areas); underground utility exploration in the vicinity of the crane location, which may include ground penetrating radar to identify voids or old pipe or other subsurface features that could lead to sudden failure; assessment of the underlying soil and roadway materials and a worst case analysis based on entire load being distributed on just one or two outriggers; provision of properly sized pads under the outriggers; loading charts from manufacturer showing allowable configurations/loads; and inspection to make sure crane operation is in accordance with the permit conditions.

GC - 09 - DISEASE REGULATIONS - The Contractor shall enforce all sanitary regulations and take all precautions against infectious diseases as the Public Works Director may deem necessary. Should any infectious or contagious diseases occur among his employees, he shall arrange for the immediate removal of the employee from the Site and isolation of all persons connected with the Work.

GC - 10 - CONTRACTOR TO CHECK PLANS, SPECIFICATIONS, AND DATA - The Contractor shall verify all dimensions, quantities, and details shown on the plans, supplementary drawings, schedules, or other data received from the Public Works Director, and shall notify the Public Works Director of all errors, omissions, conflicts and discrepancies found therein within three (3) working days of discovery. Failure to discover or correct errors, conflictions, or discrepancies shall not relieve the Contractor of full responsibility for unsatisfactory Work, faulty construction, or improper operation resulting therefrom nor from rectifying such condition at its own expense.

GC - 11 - SUPPLEMENTARY DRAWINGS - When, in the opinion of the Public Works Director, it becomes necessary to explain more fully the Work to be done, or to illustrate the work further, or to show any changes which may be required, drawings, known as supplementary drawings, with specifications pertaining thereto, will be prepared by the Public Works Director and copies will be given to the Contractor.

The supplementary drawings shall be binding upon the Contractor with the same force as the original Plans. Where such supplementary drawings require either less or more than the estimated quantities of work, credit to the City or compensations therefore to the Contractor shall be subject to the terms of the Contract.

GC - 12 - MATERIALS AND WORKMANSHIP - All material and workmanship shall, in every respect, be in conformity with approved modern practice and with prevailing standards of performance and quality. In the event of a dispute, the Public Works Director's decision shall be final. Wherever the Plans, Specifications, Contract Documents, or the directions of the Public Works Director are unclear as to what is permissible and/or fail to note the quality of any Work, that interpretation will be made by the Public Works Director, which is in accordance with approved modern practice, to meet the particular requirements of the Contract.

In all cases, new materials shall be used, unless this provision is waived by notice from the City in writing.

GC - 13 - SAFEGUARDING MARKS - The Contractor shall safeguard all points, stakes, grade marks, monuments, and bench marks made or established on the Work, bear the cost of re-establishing same if disturbed, or bear the entire expense of rectifying Work improperly installed due to not maintaining or protecting or for removing without authorization, such established points, stakes and marks. The Contractor shall safeguard all existing and known property corners, monuments and marks not related to the Work and, if required, shall bear the cost of having them re-established by a licensed surveyor if disturbed or destroyed during the course of construction.

GC - 14 - EXISTING UTILITY SERVICE - All existing utility service shall be maintained with a minimum of interruption at the expense of the Contractor.

GC - 15 - JOB DESCRIPTION SIGNS – Contractor, at Contractor's expense, shall furnish, erect, and maintain suitable weatherproof signs on jobs over \$100,000 containing the following information:

1. City Seal (in colors)
2. Project or Improvement Number
3. Job Description
4. Estimated Cost
5. Completion Date

Minimum size of sign shall be four feet high, eight feet wide and shall be suitably anchored. The entire sign shall be painted and present a pleasing appearance. Exact location of signs will be determined in the field. Two (2) signs will be required, one at each end of the job. All costs of this work shall be included in other parts of the work.

GC - 16 - FLORIDA EAST COAST RIGHT-OF-WAY - Whenever a City contractor is constructing within the Florida East Coast Railway Company's Right-of-Way, it will be mandatory that the contractor carry bodily injury and property damage insurance in amounts satisfactory to the Florida East Coast Company. This insurance requirement shall be verified by the contractor with the Florida East Coast Company prior to commencing work, and maintained during the life of the Contract.

GC - 17 - ACCIDENTS - The Contractor shall provide such equipment and facilities as are necessary and/or required, in the case of accidents, for first aide services to be provided to a person who may be injured during the project duration. The Contractor shall also comply with the OSHA requirements as defined in the United States Labor Code 29 CFR 1926.50.

In addition, the Contractor must report immediately to the Public Works Director every accident to persons or damage to property, and shall furnish in writing full information, including testimony of witnesses regarding any and all accidents.

GC - 18 - SAFETY PRECAUTIONS - Contractor must adhere to the applicable environmental protection guidelines for the duration of a project. If hazardous waste materials are used, detected or generated at any time, the Project Manager must be immediately notified of each and every occurrence. The Contractor shall comply with all codes, ordinances, rules, orders and other legal requirements of public authorities (including OSHA, EPA, DERM, the City, Broward County, State of Florida, and Florida Building Code), which bear on the performance of the Work.

The Contractor shall take the responsibility to ensure that all Work is performed using adequate safeguards, including but not limited to: proper safe rigging, safety nets, fencing, scaffolding, barricades, chain link fencing, railings, barricades, steel plates, safety lights, and ladders that are necessary for the protection of its employees, as well as the public and City employees. All riggings and scaffolding shall be constructed with good sound materials, of adequate dimensions for their intended use, and substantially braced, tied or secured to ensure absolute safety for those required to use it, as well as those in the vicinity. All riggings, scaffolding, platforms, equipment guards, trenching, shoring, ladders and similar actions or equipment shall be OSHA approved, as applicable, and in accordance with all Federal, State and local regulations.

GC - 19 - DUST PREVENTION - The Contractor shall, by means of a water spray, or temporary asphalt pavement, take all necessary precautions to prevent or abate a dust nuisance arising from dry weather or Work in an incomplete stage. All costs of this Work shall be included in cost of other parts of the Work.

Should the Contractor fail to abate a dust nuisance by the above methods, he will be required to immediately construct temporary patches per City standards.

GC - 20 - PLACING BARRICADES AND WARNING LIGHTS - The Contractor shall furnish and place, at his own expense, all barricades, warning lights, automatic blinker lights and such devices necessary to properly protect the work and vehicular and pedestrian traffic. Should the Contractor fail to erect or

maintain such barricades, warning lights, etc., the Public Works Director may, after 24 hours' notice to the Contractor, proceed to have such barricades and warning lights placed and maintained by City or other forces and all costs incurred thereof charged to the Contractor and may be retained by the City from any monies due, or to become due, to the Contractor.

GC - 21 - TRAFFIC CONTROL - The Contractor shall coordinate all Work and obtain, through the City's Transportation and Mobility Department, Broward County, Florida Department of Transportation, as applicable, any permits required to detour traffic or close any street before starting to work in the road. The following section: Part VI Traffic Controls for Street and Highway Construction and Maintenance Operations, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, U.S. Department of Transportation Federal Highway Administration, 2009, or current edition, shall be used as a guide for requirement and placement of traffic control devices, signs and barricades. The Public Works Director shall determine requirements for the above. The above publication is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. In the event that a Maintenance of Traffic (MOT) Plan is required, the Plan shall be prepared by an A.A.S.T.A. certified technician.

All traffic control devices, flashing lights, signs and barricades shall be maintained in working condition at all times.

GC - 22 - COORDINATION - The Contractor shall notify all utilities, transportation department, etc., in writing, with a copy to the Public Works Director before construction is started and shall coordinate its Work with them. The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal, construction and rearrangement operations in order that services rendered by these parties will not be unnecessarily interrupted.

The Contractor shall arrange its Work and dispose of his materials so as to not interfere with the operation of other contractors engaged upon adjacent work and to join its Work to that of others in a proper manner and to perform its Work in the proper sequence in relation to that of other contractors all as may be directed by the Public Works Director.

Each Contractor shall be responsible for any damage done by it or its agents to the work performed by another contractor.

The Contractor shall contact the Broward County Transportation Department and the Florida Department of Transportation, as applicable, to verify and obtain location of any and all traffic conduits, loops, and street light underground services.

GC - 23 - WATER - Bulk water used for construction, flushing pipelines, and testing shall be obtained from fire hydrants. Contractor shall make payment for hydrant meter at Treasury Billing Office, 1st Floor, City Hall, 100 N. Andrews Avenue. With the paid receipt, contractor can pick up hydrant meter at the utility location office. No connection shall be made to a fire hydrant without a meter connected.

GC - 24 - PROHIBITION AGAINST CONTRACTING WITH SCRUTINIZED COMPANIES - As to any contract for goods or services of \$1 million or more and as to the renewal of any contract for goods or services of \$1 million or more, subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed*, *Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and that it does not have business operations in Cuba or Syria, as provided in section 287.135, Florida Statutes (2019), as may be amended or revised. As to any contract for goods or services of any amount and as to the renewal of any contract for goods or services of any amount, the Contractor certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), and that it is not engaged in a boycott of Israel. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2019), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), or is engaged in a boycott of Israel or has been

engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2019), as may be amended or revised.

GC - 25 - LOCATION OF UNDERGROUND FACILITIES - If the Proposer, for the purpose of responding to this solicitation, requests the location of underground facilities through the Sunshine State One-Call of Florida, Inc. notification system or through any person or entity providing a facility locating service, and underground facilities are marked with paint, stakes or other markings within the City pursuant to such a request, then the Proposer shall be deemed non-responsive to this solicitation in accordance with Section 2-184(5) of the City of Fort Lauderdale Code of Ordinances.

GC - 26 - USE OF FLORIDA LUMBER TIMBER AND OTHER FOREST PRODUCTS - In accordance with Florida Statute 255.20 (3), the City specifies that lumber, timber, and other forest products used for this Project shall be produced and manufactured in the State of Florida if such products are available and their price, fitness, and quality are equal. This requirement does not apply to plywood specified for monolithic concrete forms, if the structural or service requirements for timber for a particular job cannot be supplied by native species, or if the construction is financed in whole or in part from federal funds with the requirement that there be no restrictions as to species or place of manufacture. The Bidder affirms by submitting a bid response to this solicitation that they will comply with section 255.20 (3) Florida Statutes.

GC - 27 - PUBLIC RECORDS/TRADE SECRETS/COPYRIGHT: The Proposer's response to the Solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this Solicitation and the Contract to be executed for this Solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.

Any language contained in the Proposer's response to the Solicitation purporting to require confidentiality of any portion of the Proposer's response to the Solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the Solicitation constitutes a Trade Secret. The City's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the City and the City's officers, employees, and agents, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as public records. In addition, the proposer agrees to defend, indemnify, and hold harmless the City and the City's officers, employees, and agents, against any loss or damages incurred by any person or entity as a result of the City's treatment of records as exempt from disclosure or confidential. Proposals purporting to be subject to copyright protection in full or in part will be rejected. The proposer authorizes the City to publish, copy, and reproduce any and all documents submitted to the City bearing copyright symbols or otherwise purporting to be subject to copyright protection.

EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Telephone Number: (954) 828-5002

Mailing Address: **City Clerk's Office**
 100 N. Andrews Avenue
 Fort Lauderdale, Florida 33301-1016

E-mail: **prcontract@fortlauderdale.gov**

Contractor shall:

1. Keep and maintain public records required by the City in order to perform the service.
2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2019), as may be amended or revised, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this contract if the Contractor does not transfer the records to the City.
4. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of this Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

Rev. 5/8/2020



PRICE PROPOSAL FORM

RFP #12470-416 RE-BID DESIGN-BUILD SERVICES FOR PUMP STATION B-4 REDUNDANT FORCE MAIN P12567

DESIGN

- | | |
|--------------------------------|-----------------|
| 1. Design Development | \$ _____ |
| 2. Construction Administration | \$ _____ |
| SUB-TOTAL DESIGN COSTS | \$ _____ |

CONSTRUCTION

GENERAL

- | | |
|--------------------------------|----------|
| 3. Mobilization/Demobilization | \$ _____ |
| 4. Maintenance of Traffic | \$ _____ |
| 5. Restoration | \$ _____ |

FORCEMAIN

- | | |
|---|-----------------|
| 6. 24-Inch Opencut Piping <i>(Includes labor, material, fittings, valves, ARV's, manholes, testing, connection to existing force mains, connections to existing pump stations, reducers, etc.)</i> | \$ _____ |
| 7. 24-Inch HDPE Pipeline – Directional Drill | \$ _____ |
| SUBTOTAL CONSTRUCTION COSTS | \$ _____ |

PERMIT ALLOWANCE

- | | |
|--|---------------------|
| 8. Permitting <i>(For both Design and Construction)</i> | \$ <u>10,000.00</u> |
|--|---------------------|

TOTAL PROPOSAL – Design, Construction, and Permit Allowance Costs (proposed “Contract Price”). Enter this figure in Bidsync, Item Response Form, to indicate your total price.

(IN WORDS)

\$ _____

(FIGURES)

1. The prices listed in the Price Proposal Form shall include the total cost to complete the Work including but not limited to materials, labor, equipment, profit, bonds, insurances, etc., as necessary to ensure proper execution of the design-build services and product requested by the City of Fort Lauderdale. Any pricing, quantities, costs or services that are not listed above, and are known to be required, must be added by the Proposer and listed on a separate sheet and included in the total.
2. I hereby certify that I am authorized to act on behalf of the firm, individual, partnership, corporation or association making this proposal and that all statements made in this document are true and correct to the best of my knowledge. I agree to hold this proposal open for a period of one hundred and eighty (120) days from the deadline for receipt of proposals.
3. I understand and agree to be bound by the conditions contained in the Request for Proposal and shall conform with all requirements of the Request for Proposal.

Name: (Please Print)

Proposer Signature

Title:

Date:

STATEMENT OF QUALIFICATION CERTIFICATION

Please Note: It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through www.BidSync.com prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the Department of State, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone No. _____ FAX No. _____ Email: _____

Check box if your firm qualifies for MBE / SBE / WBE: ☐

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

| <u>Addendum No.</u> | <u>Date Issued</u> | <u>Addendum No.</u> | <u>Date Issued</u> | <u>Addendum No.</u> | <u>Date Issued</u> |
|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

VARIANCES: TIME IS OF THE ESSENCE, NO EXCEPTIONS TO ANY ELEMENT OF THE SOLICITATION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE RFP, DCP, DRAWINGS, CONSTRUCTION TIME FRAME, SAMPLE AGREEMENT, GENERAL TERMS AND CONDITIONS, ETC. SHALL BE CONSIDERED.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed)

Signature

Date:

Title:

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME**RELATIONSHIPS**

| |
|--|
| |
| |
| |
| |

| |
|--|
| |
| |
| |
| |

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

Authorized Signature

Title

Name (Printed)

Date

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below you agree with these terms.

Please indicate which credit card payment you prefer:

☐ MasterCard

☐ Visa

Company Name

Name (Printed)

Signature

Date

Title

**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

Authorized Signature

Print Name and Title

Date

TRENCH SAFETY

Bidder acknowledges that included in the appropriate bid items of his bid and in the Total Bid Price are costs for complying with the Florida Trench Safety Act, Florida Statutes 553.60 – 553.64. The bidder further identifies the costs of such compliance to be summarized below:

| Trench Safety Measure (Description) | Units of Measure (LF/SF) | Unit (Quantity) | Unit Cost | Extended Cost |
|--|--------------------------------|----------------------|-------------------------|-------------------------|
| A. <input type="text"/> | <input type="text"/> | <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| B. <input type="text"/> | <input type="text"/> | <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| C. <input type="text"/> | <input type="text"/> | <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| D. <input type="text"/> | <input type="text"/> | <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |

Total: \$

The bidder certifies that all trench excavation done within his control in excess of five feet (5') in depth shall be in accordance with the Occupational Safety and Health Administration's excavation safety standards, C.F.R. s. 1926.650 Subpart P., and the Florida Trench Safety Act, Florida Statutes 553.60-553.64.

Failure to complete the above may result in the bid being declared non-responsive.

DATE:

(SIGNATURE)

STATE OF: COUNTY OF:

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

(Name of Individual Signing)

who, after first being duly sworn by me,

affixed his/her signature in the space provided above on this

day of , 20 .

NOTARY PUBLIC

My Commission Expires:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT

MINORITY BUSINESS ENTERPRISE (MBE) - WOMEN BUSINESS ENTERPRISE (WBE)

PRIME CONTRACTOR IDENTIFICATION FORM

In order to assist us in identifying the status of those companies doing business with the City of Fort Lauderdale, this form must be completed and returned with your bid package.

| | |
|---------------------------------|----------------------|
| Name of Firm: | <input type="text"/> |
| Address of Firm: | <input type="text"/> |
| Telephone Number: | <input type="text"/> |
| Name of Person Completing Form: | <input type="text"/> |
| Title: | <input type="text"/> |
| Signature: | <input type="text"/> |
| Date: | <input type="text"/> |
| City Project Number: | <input type="text"/> |
| City Project Description: | <input type="text"/> |

Please check the item(s) which properly identify the status of your firm:

- ☐ Our firm is not a MBE or WBE.
- ☐ Our firm is a MBE, as at least 51 percent is owned and operated by one or more socially and economically disadvantaged individuals.
- ☐ American Indian ☐ Asian ☐ Black ☐ Hispanic
- ☐ Our firm is a WBE, as at least 51 percent is owned and operated by one or more women.
- ☐ American Indian ☐ Asian ☐ Black ☐ Hispanic

MBE/WBE CONTRACTOR INFORMATION

The City, in a continuing effort, is encouraging the increased participation of minority and women-owned businesses in Public Works Department related contracts. Along those lines, we are requiring that each firm provide documentation detailing their own programs for utilizing minority and women-owned businesses.

Submit this information as a part of this bid package and refer to the checklist, to ensure that all areas of concern are covered. The low responsive bidder may be contacted to schedule a meeting to discuss these objectives. It is our intention to proceed as quickly as possible with this project, so your cooperation in this matter is appreciated.

CONTRACTOR CHECKLIST

- ☐ List Previous City of Fort Lauderdale Contracts

- ☐ Number of Employees in your firm

--Percent (%) Women

--Percent (%) Minorities

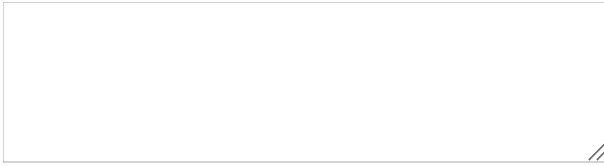
--Job Classifications of Women and Minorities

- ☐ Use of minority and/or women subcontractors on past projects.

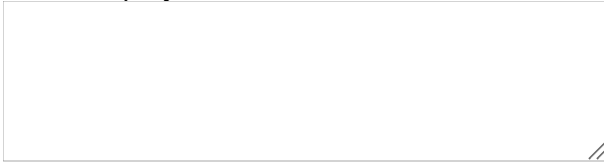
- ☐ Nature of the work subcontracted to minority and/or women-owned firms.

- ☐ How are subcontractors notified of available opportunities with your firm?

☐ Anticipated amount to be subcontracted on this project.

A large, empty rectangular box with a thin black border, intended for the user to input the anticipated amount to be subcontracted on this project. A small double-slash icon is visible in the bottom right corner of the box.

☐ Anticipated amount to be subcontracted to minority and/or women-owned businesses on this project.

A large, empty rectangular box with a thin black border, intended for the user to input the anticipated amount to be subcontracted to minority and/or women-owned businesses on this project. A small double-slash icon is visible in the bottom right corner of the box.

RFP NO. 12470-416 / PROJECT NO. 12567 SPECIFIC REFERENCES FORM

The DBF shall have previous experience in the design, permitting, construction aspects of Pump Station Redundant Force Main work and shall have previous construction experience in underground water and wastewater piping installation as described in this RFP, in the State of Florida within the last ten (10) years. DBF shall submit project experience for a minimum of three (3) projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by Contractor; and client's name, address, telephone number and e-mail address. **DBF's are expected to provide information on each project by including these forms in their bid submittals.** If these forms are not utilized, the DBF's must provide identical information to the City for evaluation purposes.

Note: Do not include proposed team members or parent/subsidiary companies as references in your submittals.

A. PRIME BIDDER'S NAME: _____

CLIENT NO.1 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Dates should be in mm/yy format

Project Performance Period: _____ to _____

Project Name : _____

Location of Project: _____

Overall Construction Cost: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

CLIENT NO.2 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name : _____

Location of Project: _____

Overall Construction Cost: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

CLIENT NO.3 - Name of firm to be contacted: _____

Address: _____

Contact Person: _____

Phone No: (____) _____

Contact E-Mail Address: _____

Project Performance Period: _____ to _____
Dates should be in mm/yy format

Project Name : _____

Location of Project: _____

Overall Construction Cost: _____

Description of the overall scope: _____

Description of work that was self-performed by Bidder:

E-VERIFY AFFIRMATION STATEMENTRFP/Bid /Contract No: Project Description:

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- (a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- (b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: Authorized Company Person's Signature: Authorized Company Person's Title: Date:

9/15/2020

AGREEMENT

Between

CITY OF FORT LAUDERDALE

and

for

DESIGN/BUILD SERVICES FOR

RE-BID Design Build Pump Station B-4

Redundant Force Main

City Project Number P12567

REQUEST FOR PROPOSAL NO.

12470-416

This Agreement made and entered into this _____ day of _____, 202__ between the CITY OF FORT LAUDERDALE, FLORIDA, a municipal corporation of the State of Florida, its successors and assigns, hereinafter referred to as "CITY" and _____, a _____ Corporation authorized to transact business in Florida, its successors and assigns, hereinafter referred to as "DESIGN/BUILD FIRM."

WITNESSETH, in consideration of the mutual terms and conditions, promises, covenants and payments hereinafter set forth, CITY and DESIGN/BUILD FIRM agree as follows:

ARTICLE 1 – DEFINITIONS AND IDENTIFICATIONS

For the purposes of this Agreement and the various covenants, conditions, terms and provisions which follow, the definitions set forth below are assumed to be true and correct and are agreed upon by the parties.

Agreement - This document, inclusive and including all exhibits and documents that are expressly incorporated by reference.

Applicable Laws - All federal, state, county, and local statutes, codes, laws, rules, regulations, ordinances, orders and standards applicable to the Project and any other such law hereafter enacted, and any rules adopted pursuant thereto, as all such laws may be amended from time to time to perform the Work.

Change Order - A written document ordering a change in the Not To Exceed Guaranteed Maximum Price or Contract Time or a material change in the Work.

CITY - The CITY (or Owner) shall mean the City of Fort Lauderdale, a Florida municipal corporation, having its principal offices at 100 North Andrews Avenue, Fort Lauderdale, Florida 33301, which is a party hereto and/or for which this Contract is to be performed. In all respects hereunder, CITY's performance is pursuant to CITY's position as the owner of a construction project. In the event CITY exercises its regulatory authority as a governmental body, the exercise of such regulatory authority and the enforcement of any rules, regulations, laws and ordinances shall be deemed to have occurred pursuant to the CITY's regulatory authority as a governmental body and shall not be attributable in any manner to CITY as a party to this Contract.

City Commission - City Commission shall mean the governing and legislative body of the CITY.

City Manager - City Manager shall mean the Chief Administrative Officer of the CITY.

Construction Documents Phase - The phase in which DESIGN/BUILD FIRM will consult with Project Manager and prepare the Construction Documents for the Project, based upon the information provided in the Design Criteria Package (DCP), for review and approval of the CITY (including, without limitation, any and all applicable CITY departments) and any applicable regulatory agencies.

Construction Manager - The Construction Manager is the authorized individual or firm which is the representative of the DESIGN/BUILD FIRM, who/which will administer/manage the construction effort on behalf of the DESIGN/BUILD FIRM.

Construction Phase - The phase which constitutes DESIGN/BUILD FIRM's administration of the construction of the Project and all activities necessary for the completion of the Project.

Consultant - The person or entity who is a registered architect, professional engineer, professional land surveyor, and/or registered landscape architect having a contract with DESIGN/BUILD FIRM to provide professional services for the design of the Project, and who is licensed by the State of Florida to provide said services.

Contract Documents - This Agreement, as approved by the Mayor and City Commission and its exhibits, attachments and forms, any addenda, performance bond and payment bond, plans and specifications (as approved and permitted) as prepared by the DESIGN/BUILD FIRM in accordance with the information provided in the DCP, Notice of Award, Notice(s) to Proceed, and any and all agreed upon contract and/or design modifications, including but not limited to change orders; Project schedule; a schedule of values, and any additional documents the submission of which is required by this Agreement. When reference is made in the Contract Documents to publications, standards or codes issued by associations or societies, the intent shall be to specify the current or adopted edition of such publication or standard including revision and effect on the date of the issuance of all applicable permits.

Contract Time - The time between the Project Initiation Date specified in the Notice to Proceed and final completion, including any milestone dates thereof, established in the Agreement, as may be amended by Change Order.

Contract Price - The Not to Exceed Guaranteed Maximum Price agreed to between DESIGN/BUILD FIRM and the CITY. The Contract Price is not subject to increase, except as expressly allowed within the Contract Documents.

Design/Build Firm – _____ its successors and assigns, is the DESIGN/BUILD FIRM selected to perform the Work pursuant to this Agreement, and is the person, firm or corporation liable for the acceptable performance of, and payment of, all legal debts pertaining to the Project. All references in the Contract Documents to third parties under contract or control of DESIGN/BUILD FIRM shall be deemed to be a reference to DESIGN/BUILD FIRM. The DESIGN/BUILD FIRM will be responsible for the provision, installation, and performance of all equipment, materials, services and Work. The DESIGN/BUILD FIRM is in no way relieved of the responsibility for the performance of all equipment furnished.

Design Criteria Package (DCP) - DCP shall mean those certain conceptual plans and specifications and performance-oriented drawings or specifications of the Project, as prepared and sealed by the Design Criteria Professional, and in compliance with the requirements of Section 287.055, Florida Statutes.

Design Criteria Professional – _____ Design Criteria Professional shall mean the individual or entity who/which holds a current certificate as a registered engineer under Chapter 471 to practice engineering and who/which is employed by or retained by the CITY to provide professional services in compliance with the requirements of Section 287.055, Florida Statutes, and in connection with the preparation of the DCP who/which shall review and provide recommendations regarding the Construction Documents prepared by the DESIGN/BUILD FIRM for the Project, and evaluate compliance of Project construction with the DCP.

Field Order or Supplemental Instruction - A written order for minor changes or interpretations of the Contract Documents but which does not involve a change in the Not To Exceed Price or Contract Time.

Final Completion - The date certified by the Project Manager that all conditions of the permits and regulatory agencies have been met; all construction, including corrective and punch list work, has been performed and accepted by the CITY; all administrative requirements of the Contract Documents have been completed; and CITY has received from DESIGN/BUILD FIRM all necessary documentation, as deemed required by the CITY including, but not limited to, the following: all final releases of liens, consent of surety, release of claims by DESIGN/BUILD FIRM, correct as-built drawings, a final bill of materials, executed final adjusted Change Orders, final invoice, copies of pertinent test results, correspondence, warranties, guarantees, operational manuals, spare parts, service contracts and tools.

NOT TO EXCEED PRICE (NTE) - THE MUTUALLY AGREED UPON CONTRACT PRICE TO BE PAID OF \$_____ TO THE DESIGN/BUILD FIRM, AND THAT THE DESIGN/BUILD FIRM GUARANTEES NOT TO EXCEED, FOR ALL LABOR, EQUIPMENT, AND MATERIALS TO DESIGN, PERMITS (AS REQUIRED BY THE CONTRACT DOCUMENTS), ADMINISTER, COORDINATE, INSPECT, CONSTRUCT AND INSTALL THE PROJECT WITHIN THE CONTRACT TIME. THE DOLLAR AMOUNT SHALL INCLUDE, BUT NOT BE LIMITED TO ALL PROFIT, OVERHEAD, ON-SITE AND OFF-SITE CONDITIONS (KNOWN AND UNKNOWN) AND ADMINISTRATIVE COSTS. THE NOT TO EXCEED GUARANTEED MAXIMUM PRICE IS NOT SUBJECT TO INCREASE EXCEPT AS EXPRESSLY ALLOWED.

Holidays - Those designated non-work days as established by the City Commission of the City of Fort Lauderdale.

Notice to Proceed - One or more written notice(s) to DESIGN/BUILD FIRM issued by the Project Manager authorizing the commencement of specified Work.

Owners Representative – The individual or entity who/which holds a current certificate as a registered engineer under Chapter 471 to practice engineering and who/which is employed by or retained by the CITY to provide professional services in compliance with the requirements of Section 287.055, Florida Statutes, and who/which shall review and provide recommendations regarding the Construction Documents prepared by the DESIGN/BUILD FIRM for the Project, and evaluate compliance of Project construction with the requirements of this Agreement.

Plans and Specifications - The official graphic representations of the Project as prepared, signed and sealed by Architect/Engineer and which, upon written approval of CITY, shall become a part of the Contract Documents.

Project: The design/construction project described in the Contract Documents.

Project Manager/Contract Administrator - The employee of the City, or other designated individual who is herein referred to as the Project Manager, will assume all duties and responsibilities and will have the rights and authorities assigned to the Project Manager in the Contract Documents in connection with completion of the Work in accordance with this Agreement. The Project Manager, or designee, shall be the authorized agent for the City unless

otherwise specified. The Term Project Manager and Contract Administrator are used interchangeably.

Punch List - The City's list of Work yet to be done or be corrected by the DESIGN/BUILD FIRM before the final completion date can be determined by the City.

Shop Drawings - Drawings, diagrams and schedules, and other data specially prepared by the DESIGN/BUILD FIRM or its Subcontractors, sub-Subcontractors, manufacturer, supplier or distributor to illustrate some portion of the Work.

Substantial Completion - The date, as certified by the Project Manager that all conditions of the permits and regulatory agencies have been met for the CITY's stated use of the Project, and all construction has been performed therein in accordance with the Contract Documents so CITY can beneficially enjoy, use or occupy and can operate it in all respects for its intended purpose.

Surety - The surety company or individual which is bound by the performance bond and payment bond with and for DESIGN/BUILD FIRM, who is primarily liable, and which surety company or individual is responsible for DESIGN/BUILD FIRM's acceptable performance of the Work under the Contract and for the payment of all debts pertaining thereto in accordance with Section 255.05, Florida Statutes.

Work - The totality of the obligations, including design, permitting, governmental entitlements, site plan approvals and construction and all other services required by the Contract Documents, whether completed or partially completed, including all labor, materials, equipment and services provided to or to be provided by DESIGN/BUILD FIRM to fulfill its obligations.

ARTICLE 2 – GENERAL PROVISIONS

- 2.1 DESIGN/BUILD FIRM hereby agrees to furnish all of the labor, materials, equipment, Work, services and incidentals necessary to complete the Project, in accordance with the Contract Documents, within the Contract Time and for the Not to Exceed Guaranteed Maximum Price.
- 2.2 Relationship of CITY and DESIGN/BUILD FIRM: The DESIGN/BUILD FIRM accepts the relationship of trust and confidence established between it and the CITY by this Agreement. The DESIGN/BUILD FIRM warrants and represents to CITY that it will furnish its best skill and judgment in performing the Work, and shall always act to further the interest of the CITY in the expeditious completion of the Project at the lowest cost to the CITY, and in strict accordance with the Contract Documents and prudent and customary construction practices.
- 2.3 By signing this Agreement, the DESIGN/BUILD FIRM accepts a fiduciary duty with the CITY and warrants and represents to the CITY that the DESIGN/BUILD FIRM: (a) has all licenses and certifications required by applicable laws; (b) is experienced in all aspects of pre-construction and construction planning for projects similar to the Project; (c) will act in the CITY's highest and best interests in performing the Work; and (d) that no employees or affiliates of the DESIGN/BUILD FIRM, including all Consultants, any sub-consultants, Subcontractors, and suppliers, at any tier, have been convicted of a public

entity crime, fraud, theft, and/or a property damage crime within the preceding thirty-six (36) months from the time this Agreement is executed, as required pursuant to Section 287.133, Florida Statutes.

- 2.4 Intention of Contract Documents: It is the intent of the Contract Documents to describe a functionally complete Project to be designed and constructed in accordance with the Contract Documents. Any Work, design, construction, other professional services, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied by the DESIGN/BUILD FIRM, whether or not specifically called for by the Contract Documents. When words, which have a well-known technical or trade meaning are used to describe Work, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals, or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference is specific or by implication, shall mean the latest standard specification, manual, code or laws or regulations in effect at the time of permit issuance. CITY shall have no duties other than those duties and obligations expressly set forth within the Contract Documents.
- 2.5 DESIGN/BUILD FIRM shall plan, record, and update, at least monthly, the design and construction schedule of the Project. The Project Schedule shall indicate the dates for the commencement and completion of the various stages of design and construction and shall be revised at least monthly and as required by the conditions of the Work. The Project Schedule shall encompass all of the work of all professions and trades necessary for the construction of the Project and shall be sufficiently complete and comprehensive to enable progress to be monitored on a weekly basis. DESIGN/BUILD FIRM shall be responsible to have available to it all materials, supplies, and appropriate personnel, trades, etc., necessary to complete the Work in accordance with the Project Schedule.

ARTICLE 3 - PROJECT MANAGER

- 3.1 The Project Manager is hereby designated by the City as _____, Project Manager whose address is 100 N. Andrews Avenue, 4th Floor, Fort Lauderdale, Florida 33301. The Project Manager will assume all duties and responsibilities and will have the rights and authority assigned to the Project Manager in the Contract Documents in connection with completion of the Work in accordance with this Agreement.

ARTICLE 4 – CONTRACT DOCUMENTS

- 4.1 The Contract Documents shall be followed as to Work, Materials and dimensions except with the Project Manager may authorize, in his/her sole discretion, and in writing, an exception.
- 4.2 Dimensions given in figures are to hold preference over scaled measurements from the drawings; however, all discrepancies shall be decided upon by the Consultant, with concurrent written notice to Contract Administrator / Project Manager. DESIGN/BUILD FIRM shall not proceed when in doubt as to any dimension or measurement but shall seek clarification from the Consultant, with concurrent written notice to Project Manager.

- 4.3 DESIGN/BUILD FIRM shall maintain two (2) copies of the Contract Documents, one of which shall be preserved and always kept accessible at the site for the Project Manager, and/or authorized representatives.
- 4.4 The Contract Documents shall have the following order of precedence, beginning with the most important:
- A. This Agreement (Contract) and all exhibits, addendums, and amendments thereto;
 - B. Change Orders (to the extent permitted under this Agreement);
 - C. The Specifications, as approved and permitted;
 - D. The Plans, as approved and permitted;
 - E. All other information provided in the DCP;
 - F. CPM Project Schedule and Schedule of values; and
 - G. Design-Build Firm's response to the City's request;

ARTICLE 5 – SCOPE OF WORK

- 5.1 DESIGN/BUILD FIRM agrees to complete the Project generally described as Design/Build _____, (RFP) NO. _____, submitted by the Design/Build Firm, responsible for the design, permitting, construction, testing and startup of _____. The work to be accomplished under this contract includes, but is not limited to; _____ (as indicated on the conceptual plans), including all other aspects of the project to fulfill the intent of the Project as described in the Design Criteria Package and all supporting documents. The Project shall be construed in accordance with the requirements and provisions of said Contract Documents and for the Not to Exceed Guaranteed Maximum Price.
- 5.2 DESIGN/BUILD FIRM agrees to meet with the Project Manager or his/her respective designees at reasonable times and with reasonable notice.
- 5.3 Prior to the Final Completion of construction services under this Agreement, and as a condition precedent to final payment, there shall be established a record set of plans on reproducible vellum and a record set of Specifications, both of which shall bear the written approvals of the DESIGN/BUILD FIRM and the City's Project Manager. Such approval shall be indicated by the written signature of both parties. In addition, there shall be established electronic copies on USB drives of the record set plans, non-compressed, formatted in the latest version of AutoCAD and of the record set of Specifications.
- 5.4 DESIGN/BUILD FIRM herein represents that Construction Manager, at a minimum, will provide the following services:
- 5.4.1 At least five (5) days prior to the commencement of the construction phase of the Project, the DESIGN/BUILD FIRM will identify and provide the qualifications of a suitably qualified and experienced Construction Manager, approved by the City,

who will be on site full time at the Project. No More than twenty percent (20%) of the proposed team can be changed and such change will require CITY approval.

- 5.4.2 DESIGN/BUILD FIRM will use reasonable efforts to have the same Construction Manager on the Project, full time, to its conclusion, and any new representative will first be approved in writing by Project Manager before permanent assignment. Approval shall not be unreasonably withheld.
- 5.4.3 The Construction Manager will conduct weekly meetings with the DESIGN/BUILD FIRM and its Subcontractors at regular times, as previously agreed upon and approved by the Project Manager and shall issue weekly reports on the progress of the Work and the minutes of the previous meeting.
- 5.4.4 The Construction Manager will administer the DESIGN/BUILD FIRM's Work.
- 5.4.5 The Construction Manager shall coordinate the processing of shop drawings and material submittals.
- 5.4.6 The Construction Manager will achieve satisfactory performance by DESIGN/BUILD FIRM and, if required, will require corrections to DESIGN/BUILD Firm's Work including, but not limited to, maintaining punch lists and observing testing.
- 5.4.7 The Construction Manager will monitor the cost of the Project, including payment applications and the preparation thereof.
- 5.4.8 The Construction Manager will assist in the preparation of record drawings, and shall transmit to the Consultant requests for additional information concerning the design. In addition, the Project Manager shall be copied on these requests for monitoring purposes.
- 5.4.9 The Construction Manager will observe testing, start-up activities, and commissioning of project scope as described in the DCP.
- 5.4.10 The Construction Manager will secure all equipment brochures and warranties from the DESIGN/BUILD FIRM.
- 5.4.11 The Construction Manager will coordinate the correction and completion of the Work including that required by the punch list.
- 5.5 DESIGN/BUILD FIRM herein represents that Consultant, at a minimum, will provide the following services:
 - 5.5.1 Consultant shall perform all of the architectural and engineering services necessary to describe, detail and design the Project in accordance with the Contract Documents.
 - 5.5.2 Consultant shall design the Project so as to comply with Applicable Laws.

- 5.5.3 Consultant shall prepare the Plans and Specifications, as well as obtain all required and necessary reviews and approvals (or take other appropriate action upon) for same, and/or other submittals including, but not limited to, shop drawings, product data, and samples.
- 5.5.4 Consultant shall also submit the Plans and Specifications to the Owners Representative, with a copy to Project Manager, for his/her review and written approval. Owners Representative shall expeditiously review and approve the Plans and Specifications in accordance with the accepted Project Schedule. Owners Representative's approval of the Plans and Specifications shall not constitute acceptance of any design work which does not comply with Applicable Laws, information provided in the DCP, and/or with the terms of this Contract. Except as provided herein, and to the extent limited by, the preceding sentence, the approval of the Plans and Specifications by the Owners Representative shall constitute a representation by the Owners Representative that the Project, if constructed as required by the Contract Documents, will be sufficient for its purposes. The Plans and Specifications shall include technical drawings, schedules, diagrams, and specifications setting forth in detail the requirements for construction of the Project; provide information necessary for the use of DESIGN/BUILD FIRM Subcontractors and those in the building trade; and include documents necessary for regulatory agencies and other governmental approvals.
- 5.5.5 Consultant shall prepare construction change directives, if necessary, at no additional cost to the CITY, and authorize minor changes in the Work, as provided in the Contract Documents.
- 5.5.6 Consultant shall receive and review for compliance with the Contract Documents, all written warranties and related documents required hereby to be assembled upon Substantial Completion and issue Applications for Payment performed in compliance with the requirements of the Contract Documents.
- 5.6 The approved and permitted Plans and Specifications shall constitute a representation by Consultant to CITY that the Project, if construed as required by the Contract Documents, will be sufficient for its purposes. The Plans and Specifications include technical drawings, schedules, diagrams, and specifications setting forth in detail the requirements for construction of the Project; provide information necessary for the use of Design/Build FIRM, Sub-contractors, and those in the building trade; and include documents necessary for regulatory agencies and other governmental approvals.
- 5.7 Project Manager will provide the following services:
 - 5.7.1 The Project Manager shall review Applications for Payment and coordinate the processing thereof with the CITY.
 - 5.7.2 The Project Manager shall monitor the schedule(s).

- 5.7.3 The Project Manager shall track, log and review all required Project related documents and subsequently address any and all concerns with DESIGN/BUILD FIRM.
- 5.7.4 The Project Manager shall review and observe the Work and testing thereof for conformance and compliance with the requirements of the Contract Documents.
- 5.7.5 The Project Manager shall attend all required meetings and maintain and distribute meeting minutes.
- 5.7.6 At all times, the Project Manager will act as liaison between the parties to this Agreement, and the City's Project Manager.

ARTICLE 6 - CONTRACT TIME AND COMPLETION DATE

- 6.1 Time is of the essence for the DESIGN/BUILD FIRM's performance of the Work pursuant to this Contract. The DESIGN/BUILD FIRM agrees to complete the Work in accordance with the approved and accepted Project Schedule and to achieve Substantial Completion of the Work, in accordance with this Contract, and within the Contract Time. The DESIGN/BUILD FIRM acknowledges that failure to achieve Substantial Completion will result in substantial damages to the CITY, such as loss of beneficial use and/or occupancy of the Project.
- 6.2 DESIGN/BUILD FIRM shall be instructed to execute the Contract immediately. DESIGN/BUILD FIRM shall immediately commence scheduling activities, permit applications and other preconstruction work after the Notice to Proceed.
- 6.3 The DESIGN/BUILD FIRM shall complete the Construction Documents Phase.
- 6.4 The DESIGN/BUILD FIRM shall meet the following construction duration:

| MILESTONE | CALENDAR DAYS FROM NOTICE TO PROCEED (COMPLETION DATE) |
|-----------------------------------|---|
| Assumed Notice to Proceed Date | |
| Substantial Completion of PROJECT | |
| Final Completion of PROJECT | |

ARTICLE 7-LIQUIDATED DAMAGES

- 7.1 Failure of the DESIGN/BUILD FIRM to substantially complete the Project in accordance with Section 6.4 above, or meet any of the milestones as indicated in Section 6.4 above, DESIGN/BUILD FIRM shall pay to the City the sum of _____ and 00/100 Dollars (\$1500) for each calendar day that the completion of the work is delayed beyond the time after the time specified in Article Section 6.4 above 2 (plus any approved time extensions at the sole discretion of the CITY) that DESIGN/BUILD FIRM fails to meet time specified in Section 6.4 above.

- 7.2 The time frame for liquidated damages shall not commence and thus shall not be tolled until the Project Manager submits the punch list to the DESIGN/BUILD FIRM. DESIGN/BUILD FIRM and CITY HEREBY MUTUALLY AGREE AND ACKNOWLEDGE THAT THE LIQUIDATED DAMAGES AMOUNT SET FORTH HEREIN are not penalties but are liquidated damages to CITY for its inability to obtain full beneficial occupancy and/or use of the Project. Liquidated damages are hereby fixed and agreed upon between the Parties, recognizing the impossibility of precisely ascertaining the amount of damages that will be sustained by the CITY as a consequence of such delay, and both parties desiring to obviate any question of dispute concerning the amount of said damages and the cost and effect of the failure of DESIGN/BUILD FIRM to complete the Contract on time. Liquidated damages shall apply separately to each portion of the Work for which a time of completion is given.
- 7.3 The CITY shall have the right to deduct from or retain any compensation which may be due or which may become due and payable to the DESIGN/BUILD FIRM the amount of liquidated damages, and if the amount retained by the CITY is insufficient to pay in full such liquidated damages, the DESIGN/BUILD FIRM shall pay all liquidated damages in full. The DESIGN/BUILD FIRM shall be responsible for reimbursing the CITY, in addition to liquidated damages or other damages for delay, for all costs of engineering fees and inspection and other costs incurred in administering the construction of the Project beyond the completion date specified or beyond an approved extension of time granted to the DESIGN/BUILD FIRM whichever is later.
- 7.4 CITY is authorized to deduct liquidated damages from monies withheld due to DESIGN/BUILD FIRM for the Work under this Contract or as much thereof as CITY may, in its sole discretion, deem just and reasonable.

ARTICLE 8 - CHANGE OF THE CONTRACT TIME

- 8.1 The Contract Time may only be changed by a Change Order. Any claim for an extension in the Contract Time shall be based on written notice delivered to the Project Manager within five (5) days of the occurrence of the event giving rise to the claim. Any change in the Contract Time resulting from any such claim shall be incorporated in a Change Order.
- 8.2 The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of the DESIGN/BUILD FIRM if a claim is made there for as provided in paragraph 8.1. Such delays shall include but not be limited to, acts or neglect by the CITY, or to fires, floods, labor disputes, abnormal weather conditions, pandemics, act of Governmental Authority, state of emergency, or acts of God.
- 8.3 All time limits stated in the Contract Documents are of the essence. The provisions of this Article shall not exclude recovery for damages for delay by the DESIGN/BUILD FIRM.
- 8.4 Delays caused by or resulting from entities, contractors or subcontractors who are not affiliated with DESIGN/BUILD FIRM shall not give rise to a claim by the DESIGN/BUILD FIRM for damages for increases in material and/or labor costs.

ARTICLE 9 - CONTRACT PRICE (NOT TO EXCEED PRICE) AND METHOD OF PAYMENT

- 9.1 The Contract Price is the Not To Exceed Guaranteed Maximum Price agreed to by the DESIGN/BUILD FIRM and the CITY under this Agreement, payable to complete the Work in accordance with the Agreement and DCP, and, to the extent permitted by this Agreement, as may be increased or decreased by Change Order.
- 9.2 The Contract Price for the Project, which is also the Not to Exceed Guaranteed Maximum Price is \$. This includes bonds, allowances and material change with the exception of permit fees. The CITY will reimburse actual cost of permit(s) upon submission of paid permit receipts.

DESIGN

CONSTRUCTION

GENERAL

ALLOWANCES

TOTAL NOT-TO-EXCEED GUARANTEED MAXIMUM DESIGN BUILD PRICE

\$ _____

- 9.3 In the event that the DESIGN/BUILD FIRM's total approved expenditures for the Project exceed the Not To Exceed Price Guaranteed Maximum Price, the DESIGN/BUILD FIRM shall pay such excess from its own funds. CITY shall not be required to pay any amount that exceeds the Not To Exceed Guaranteed Maximum Price and the DESIGN/BUILD FIRM shall have no claim against the CITY on account thereof.

METHOD OF BILLING AND PAYMENT

- 9.4.1 During the Construction Documents Phase, DESIGN/BUILD FIRM may submit a request for payment monthly based upon percentage of completion of the (final construction) Plans and Specifications. During the Construction Phase, DESIGN/BUILD FIRM may submit a request for payment thirty (30) calendar days after beginning field operations, subject to the Notice to Proceed, and every thirty (30) calendar days thereafter. Payment during the Construction Phase will be based upon percentage of work completed for each item in the approved Schedule of Values. DESIGN/BUILD FIRM's requisition for payment shall show a complete breakdown of the Project components, and the amount due, together with such supporting evidence, as may be required by the Project Manager.

At a minimum, the requisition for payment shall be accompanied by a completed certification of Work; consent of surety in the applicable amount; list of Subcontractors that performed Work during the payment application period being submitted; releases of liens from the DESIGN/BUILD FIRM for the previous period being billed; releases of liens from Subcontractors that have performed Work during the previous billing period unless payment for the previous period

has not been received by the DESIGN/BUILD FIRM; aerials and photographs of the areas of Work for the applicable billing period; an accepted, updated Project Schedule (as approved); and back up for all items being billed. The certification of Work will mean compliance by DESIGN/BUILD FIRM with the approved Project Schedule; that as-built drawings of Improvements are current for the prior period; and applicable laws are being met and complied with. Each requisition for payment shall be submitted to the Project Manager for approval. Payment for Work performed will be made in accordance with the Florida Prompt Payment Act, Sections 255.0705 – 255.078, but not more frequently than once a month. The Contract Administrator shall verify completion of the various phases, as noted, and authorize payment accordingly. Should the Project fall behind schedule, as indicated in the Project Schedule, DESIGN/BUILD FIRM shall include a written plan demonstrating how the Final Completion date shall be maintained.

Material Purchases can be invoiced to the City, upon receipt of invoice and documentation of order placement must be accompanied by a bill of sale from the manufacturer or supplier. The City will endeavor to pay material invoices earlier, albeit not later than 30 days of receipt of a valid invoice. Any invoices that are not considered valid will be returned immediately for correction or additional documentation. No more than 8% contractor's mark-up will be allowed for materials.

- 9.4.2 CITY agrees that it will pay DESIGN/BUILD FIRM in accordance with the Florida Prompt Payment Act, within thirty (30) calendar days of receipt of DESIGN/BUILD FIRM's proper requisition for payment, as provided above.

9.4.2.1 CITY will review DESIGN/BUILD FIRM's invoices and, if inaccuracies or errors are discovered in said invoice, CITY will inform DESIGN/BUILD FIRM within ten (10) working days by fax and/or by email of such inaccuracies or errors and request that revised copies of all such documents be re-submitted by DESIGN/BUILD FIRM to CITY.

9.4.2.2 Payments are scheduled to be made by CITY to DESIGN/BUILD FIRM using a credit card /CITY Procurement Card (P-Card).

9.4.2.3 Payment may be made to DESIGN/BUILD FIRM at:

Name:
Address:
City, State, Zip
Email:
Ph#
Fax#

- 9.4.3 The DESIGN/BUILD FIRM shall use the sums advanced to it solely for the performance of the Work and the construction, furnishing and equipping of the

Work in accordance with the Contract Documents and payment of bills incurred by the DESIGN/BUILD FIRM in performance of the Work.

- 9.4.4 DESIGN/BUILD FIRM shall remain liable for Subcontractors' Work and for any unpaid laborers, material suppliers of Subcontractors in the event it is later discovered that said Work is deficient or that any Subcontractors, laborers, or material suppliers did not receive payments due to them on the Project.
- 9.4.5 Undisputed amounts remaining unpaid thirty (30) calendar days after CITY's request of DESIGN/BUILD FIRM's proper requisition for payment for conforming Work shall bear interest at the rate set forth in Section 218.74(4), Florida Statutes. This section shall not apply if the CITY has a right to withhold any portion of the payment under this Agreement.
- 9.4.6 Ten percent (10%) of all monies earned by DESIGN/BUILD FIRM shall be retained by the CITY until the Project has obtained Final Completion and been accepted by the CITY, except upon completion of the Construction Documents Phase and approval of the CITY of the Work performed under such phase, the Contract Administrator may release the entire amount of the retainage pertaining to the Consultant fees associated with the Construction Documents Phase. After fifty percent (50%) of the Construction Phase of the Project has been completed, the Contract Administrator, upon written request of the DESIGN/BUILD FIRM and written Consent of Surety in support of said request, may reduce the retainage to five percent (5%) of all monies earned subsequent to the Construction Documents Phase. Any interest earned on retainage shall accrue to the benefit of the CITY.
- 9.5 If, after the Project has been substantially completed, full completion thereof is delayed through no fault of DESIGN/BUILD FIRM, or by issuance of Change Orders affecting final completion, and the Project Manager so certifies. CITY shall, upon certification of the Project Manager, and without terminating the Contract, make payment of the balance due for that portion of the Project fully completed and accepted. Such payment shall be made as required by law under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.
- 9.6 Upon receipt of written notice from DESIGN/BUILD FIRM that the Project is ready for final inspection and acceptance, the Project Manager shall, within seven (7) calendar days, make an inspection thereof. If the Project Manager finds the Project acceptable under the Contract Documents and the Project fully performed, a Final Certificate of Payment shall be issued by the Contract Administrator over his/her own signature, stating that the Work required by this Agreement has been completed and is accepted under the terms and conditions thereof.
- 9.7 Before issuance of the Final Certificate for Payment, DESIGN/BUILD FIRM shall deliver to the Project Manager a complete release of all liens arising out of this Agreement, or receipts in full in lieu thereof, and an affidavit certifying that all suppliers, Consultant, Subcontractors, and Subconsultants have been paid in full, and that all other indebtedness connected with the Project has been paid, and a consent of the surety to final payment.

All as-builts, warranties, guarantees, operational manuals, and instructions in operation must be delivered to CITY at this time. The warranties provided after the initial warranty period of year one will be covered under the warranty bond attached as an Exhibit to this contract. DESIGN/BUILD FIRM shall submit a completed as-built drawings package signed and sealed by a land surveyor registered in the State of Florida and as approved by the CITY's Public Works Department, and proof that all permits have been closed, which shall be delivered prior to requesting final payment.

- 9.8 CITY may withhold final payment or any progress payment to such extent as may be necessary on account of:
- A. Defective Work not remedied;
 - B. Claims filed or written notices of nonpayment indicating probable filing of claims as may be prescribed by law by other parties against DESIGN/BUILD FIRM;
 - C. Failure of DESIGN/BUILD FIRM to make payments properly to Consultant, Subcontractors or Subconsultants, or for material or labor;
 - D. Damage to another Subcontractor, Subconsultant, supplier, material, person (as provided for in Florida Statute Chapter 713, party or person not remedied which are attributable to DESIGN/BUILD FIRM, its agents, servants, employees, Contractor, Consultant, Subconsultants, Subcontractors, sub-Subcontractors, sub-Subconsultants, material person and suppliers;
 - E. Liquidated damages pursuant to Article 7 herein;
 - F. As-built drawings not being in a current and acceptable state.
- 9.9 When the above grounds in 9.4.7 are removed or resolved, or DESIGN/BUILD FIRM provides a surety bond or a consent of surety satisfactory to CITY which will protect CITY in the amount withheld, payment may be made in whole or in part, as applicable.
- 9.10 If the Project Manager, in his/her reasonable judgment, determines that the portion of the Not To Exceed Price then remaining unpaid will not be sufficient to complete the Work in accordance with the Contract Documents, no additional payments will be due to the DESIGN/BUILD FIRM hereunder unless and until the DESIGN/BUILD FIRM, at its sole cost, performs a sufficient portion of the Work so that such portion of the Not To Exceed Price then remaining unpaid is determined by the Project Manager to be sufficient to so complete the Work.
- 9.11 The making and acceptance of the final payment shall constitute a waiver of all claims by CITY, other than those arising from faulty or defective Work, failure of the Project to comply with requirements of the Contract Documents, or terms of any warranties required by the Contract Documents. It shall also constitute a waiver of all claims by DESIGN/BUILD FIRM, except those previously made in writing and identified by DESIGN/BUILD FIRM as unsettled at the time of the final application for payment.

- 9.12 The DESIGN/BUILD FIRM warrants to the CITY that all materials and equipment furnished under this Agreement will be new unless otherwise specified, and that all Work will be of good quality and in conformance with the Contract Documents. Any warranties that are extended to the City beyond the standard warranty are to be in writing with the servicing firm information attached as an Exhibit. All Work not conforming to these requirements, including substitutions not properly approved and authorized by Contract Administrator, may be considered defective. If required by the CITY, the DESIGN/BUILD FIRM shall furnish satisfactory evidence as to the origin, nature and quality of materials and equipment used for the Project. DESIGN/BUILD FIRM shall properly store and protect all construction materials. Materials which become defective through improper storage shall be replaced with new materials at no additional costs. THE DESIGN/BUILD FIRM's warranty excludes reedy for damage or defect caused by abuse, modifications not executed by the DESIGN/BUILD FIRM, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage.

ARTICLE 10 - ADDITIONAL SERVICES AND CHANGES IN SCOPE OF WORK

- 10.1 Without invalidating the Agreement and without notice to any surety, CITY reserves and shall have the right to make such changes from time to time in the character and quantity of the WORK as may be considered necessary or desirable to complete fully and acceptably the Project in a satisfactory manner. The City may order additions, deletions or revisions in the Work using agreed upon rates to be included in the contract documents and/or schedule of values. Upon receipt of a Change Order, the DESIGN/BUILD FIRM shall proceed with the Work involved. All Work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, an equitable adjustment will be made on the basis of a claim made by either party.
- 10.2 The Project Manager may authorize minor changes in the Work not involving an adjustment in the Contract Price or the Contract Time, which are consistent with the overall intent of the Contract Documents. Such changes must be in writing and signed by the CITY and DESIGN/BUILD FIRM.

ARTICLE 11 - DESIGN/BUILD FIRM'S RESPONSIBILITIES

- 11.1 The parties acknowledge and agree that the DESIGN/BUILD FIRM will be responsible for the design, construction and construction management of the Project according to the Design Criteria Package (DCP).
- 11.2 The DESIGN/BUILD FIRM will be responsible for security, with full cooperation of the CITY, all permits for the Project, including without limitation, SFWMD, Broward County, Army Corp of Engineers and FDEP. Except as provided in the preceding sentences, the DESIGN/BUILD FIRM shall be fully responsible for any and all other permits and approvals from all governmental authorities having jurisdiction over the Project. All permits and licenses require by federal, state or local laws, rules, and regulations necessary for the prosecution of the Project by DESIGN/BUILD FIRM pursuant to this Agreement shall be secured by the DESIGN/BUILD FIRM and paid for

by the CITY. It is the DESIGN/BUILD FIRM's responsibility to have and maintain appropriate certificate(s) of competency, valid for the Work to be performed, and for all persons working on the Project for whom a certificate of competency is required.

- 11.3 DESIGN/BUILD FIRM shall be fully responsible for the actions of all its agents, servants, employees, including, but not limited to, the Contractor, Consultant, Subcontractors, Sub-Consultants, sub-Subcontractors, Materials persons (pursuant to Chapter 713, Florida Statutes), and any and all other persons working for it in conjunction with the design and construction of the Project.
- 11.4 DESIGN/BUILD FIRM shall be fully responsible for all acts or omissions of its Contractor, Consultant, Subcontractors, Sub-Consultants, sub-Subcontractors, sub-Sub-Consultants, Materials persons, and any and all other persons working for DESIGN/BUILD FIRM in conjunction with the design and construction of the Project; any and all persons working for Contractor, Consultant, Subcontractors or Sub-Consultant; and any and all persons for whose acts any of the aforesaid may be liable, to the same extent DESIGN/BUILD FIRM is responsible for the acts and omissions of persons directly employed by DESIGN/BUILD FIRM. Nothing in this Agreement shall create any contractual relationship between CITY and Consultant, or CITY and any Subcontractor, Sub-Consultant, sub-Subcontractor, sub-Sub-Consultant, or any other person working either for DESIGN/BUILD FIRM or for any of the afore-stated parties in conjunction with the design and construction of the Project, including, without limitation, any obligation on the part of the CITY to pay or to see the payment of any monies due to any of the afore-stated parties pursuant to this section.
- 11.5 DESIGN/BUILD FIRM agrees to bind its Consultant, Subcontractors, and Sub-Consultants to the applicable terms and conditions of this Agreement for the benefit of the CITY.
- 11.6 Unless otherwise provided herein, DESIGN/BUILD FIRM shall provide and pay for all architecture, engineering, landscape architecture, land surveying services, materials, construction and other labor, water, tools, equipment, light, power, transportation, and other facilities and services necessary for the proper execution and completion of the design and construction of the Project, whether temporary or permanent, and whether or not incorporated or to be incorporated in the Project.
- 11.7 DESIGN/BUILD FIRM shall at all times enforce strict discipline and good order among its employees, Consultants, Subcontractors and Sub-Consultants at the Project site, and shall not employ on the Project any unfit person or anyone not skilled in the work and/or services assigned to him or her.
- 11.8 DESIGN/BUILD FIRM shall keep itself fully informed of, and shall take into account and comply with any and all Applicable Laws affecting those engaged or employed in the Project; or the Materials used or employed in the design and construction of the Project; or in any way affecting the conduct of the Project, including, without limitation, all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same and of all provisions required by law to be made a part of this Agreement, all of which provisions are hereby incorporated by reference and made a part hereof. If any

specification or contract for this Project is in violation of any such Applicable Laws, DESIGN/BUILD FIRM shall forthwith report the same to the Project Manager in writing. DESIGN/BUILD FIRM shall cause all its employees, agents, Consultant, Subcontractors, Subconsultants, sub-Subconsultants and sub-Subcontractors to observe and comply with all Applicable Laws.

- 11.9 DESIGN/BUILD FIRM shall pay all applicable sales, consumer, use and other taxes required by law. DESIGN/BUILD FIRM is responsible for reviewing the pertinent State statutes involving State taxes and complying with all requirements.
- 11.10 If DESIGN/BUILD FIRM has knowledge that the Contract Documents do not comply with Applicable Laws, in any respect, the DESIGN/BUILD FIRM shall promptly notify the Project Manager, in writing, and any necessary changes shall be adjusted by appropriate revisions. If the DESIGN/BUILD FIRM performs any Work not in accordance with Applicable Laws, and without such notice to the Project Manager, the DESIGN/BUILD FIRM shall assume full responsibility therefore, and shall bear all costs attributable thereto. DESIGN/BUILD FIRM warrants to CITY that it has thoroughly reviewed and studied the DCP, and has determined that it is in conformance with Applicable Laws, and is complete and sufficiently coordinated to perform the Work for the Not To Exceed Price and the Contract Time. DESIGN/BUILD FIRM warrants to CITY that the DCP is consistent, practical, feasible and constructible. DESIGN/BUILD FIRM further warrants to CITY that the Work described in the DCP is constructible for the Not To Exceed Price and the Contract Time.

THE CITY DISCLAIMS ANY WARRANTY THAT THE DCP FOR THE PROJECT IS ACCURATE, PRACTICAL, CONSISTENT, AND/OR CONSTRUCTIBLE.

- 11.11 DESIGN/BUILD FIRM accepts the Project site in its observable and/or documented condition existing at the time of this Agreement, or conditions ordinarily encountered and generally recognized as inherent to the character of the Work to be provided for in this Project. By signing this Contract, the DESIGN/BUILD FIRM represents to the CITY that it has: (a) visited the Project site to become familiar with the conditions under which the Work is to be performed; (b) become familiar with all information provided (without warranty) by the CITY pertaining to the Project site; and (c) correlated its observations with the information furnished by the CITY (without warranty), and the Contract Documents. The DESIGN/BUILD FIRM hereby waives additional time or compensation for additional work made necessary by observable and/or documented conditions existing at the Project site, or conditions ordinarily encountered and generally recognized as inherent to the character of the Work to be provided for in this Project.
- 11.12 The DESIGN/BUILD FIRM agrees specifically that no Change Orders shall be required by the DESIGN/BUILD FIRM or considered by the CITY for reasons involving conflicts in the Contract Documents; questions of clarity with regard to the Contract Documents; and incompatibility or conflicts between the Contract Documents and the existing Project site conditions excluding, without limitation, utilities and unforeseen underground conditions at the discretion of the CITY and will not be unreasonably withheld. The DESIGN/BUILD FIRM acknowledges that it has ascertained all correct locations for points of connection for all utilities required for this Project.

- 11.13 The DESIGN/BUILD FIRM shall comply with all conditions of any permits issued by government authorities.
- 11.14 All material and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. Suppliers shall be selected and paid by the DESIGN/BUILD FIRM; the CITY reserves the right to approve all suppliers and materials.
- 11.15 The DESIGN/BUILD FIRM shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work, or any invention, design, process, product or device which is the subject of patent rights or copyrights held by others. The DESIGN/BUILD FIRM hereby expressly binds itself to indemnify and save harmless the CITY from all such claims and fees and from any and all suits and actions of every name and description that may be brought against CITY on account of any such claims, fees, royalties, or costs for any such invention or patent, and from any and all suits or actions that may be brought against said CITY for the infringement of any and all patents or patent rights claimed by any person, firm, corporation or other entity.
- 11.16 Except in connection with the safety or protection of persons, or the Work, or property at the site or adjacent thereto, and except as otherwise indicated in the Supplementary Conditions, all work at the site shall be performed during regular working hours between 7:00 am to 7:00 pm, Monday through Friday. The DESIGN/BUILD FIRM will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the Project Manager's written consent at least seventy-two (72) hours in advance of starting such work. If the Project Manager permits overtime work, the DESIGN/BUILD FIRM shall pay for the additional charges to the CITY with respect to such overtime work. Such additional charges shall be a subsidiary obligation of the DESIGN/BUILD FIRM and no extra payment shall be made to the DESIGN/BUILD FIRM for overtime work. The cost to the DESIGN/BUILD FIRM to reimburse the CITY for overtime inspections is established at direct-labor and overtime costs for each person or inspector required. Incidental overtime costs for engineering, testing and other related services will also be charged to the DESIGN-BUILD FIRM at the actual rate accrued.

City Inspector Hours: 8:00 am to 4:30pm

Overtime: 5:01pm to 7:59am

Inspection Overtime Cost: \$100/hr.

- 11.17 DESIGN/BUILD FIRM requests to work during other than regular hours that conform to the standard hours listed in the City Noise Ordinance Section 17-8 (1), must be submitted to the DCP and City Project Manager with (6) six business days in advance of scheduled work. Request shall include the following information:
- Cover page with DESIGN/BUILD FIRM name, project name, and location
 - Description of work to be performed outside of normal work hours
 - Site plan and location map

- Legal description
- Justification for work and why extended work hours are being requested
- Commencement date and duration of work
- List of DESIGN/BUILD FIRM contacts, including those on site
- Details on type of equipment to be used during extended work hours
- Details on noise levels that may be produced by range of decibels, including current ambient levels at site and levels predicted from proposed construction impacts
- Details on vibratory control measures to be implemented
- Details on how neighbors in vicinity of work area will be notified
- Details on how complaints will be resolved and/or mitigated
- MOT plans approved by City Transportation and Mobility Department (TAM) and any other agencies (if applicable).

11.17.1 If no lane closure or traffic impacts are necessary, the DESIGN/BUILD FIRM request must be submitted seven (7) business days in advance of scheduled work. If the work requires lane closures, request should be submitted at least ten (10) business days in advance, along with MOT plans approved by City Transportation and Mobility Department (TAM) and any other agencies if necessary, to allow time for City Manager consideration and approval, City MOT permit issuance, and notification to the public.

11.17.2 The DESIGN/BUILD FIRM will not be permitted overtime work or the performance of work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the City Manager's written consent at least seventy-two (72) hours in advance of the period proposed for such overtime work. Hours of work shall conform to the requirements of the CITY's Noise Ordinance.

11.17.3 If the Design-Build Firm requests to work outside regular hours that require a special exemption from the provisions of Section 17-7.4, it shall follow the City's Department of Sustainable Development's process for "Requesting Exemption from the Noise Ordinance", located at

<https://www.fortlauderdale.gov/departments/sustainable-development/building-services/building-permit-general-info>.

11.17.4 The DESIGN/BUILD FIRM will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the approval from the City Manager or City Commission approval at least seventy-two (72) hours in advance of starting such work.

- 11.18 In the event of an emergency affecting the safety or protection of persons or the Work or property at the site or adjacent thereto, DESIGN/BUILD FIRM, without special instruction or authorization from the CITY is obligated to act to prevent threatened damage, injury or loss. DESIGN/BUILD FIRM shall give the Project Manager prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby.
- 11.19 Upon issuance of a Hurricane Watch by the National Weather Service, DESIGN/BUILD FIRM shall submit to the City a plan to secure the work area in the event a Hurricane Warning is issued. The plan shall detail how the DESIGN/BUILD FIRM will secure the premises, equipment and materials in a manner as to prevent damage to the Work and prevent materials and equipment from becoming a hazard to persons and property on and around the premises. The plan shall include a time schedule required to accomplish the hurricane preparations and a list of emergency contacts that will be available and in the CITY before, during and immediately after the storm.

Upon issuance of a Hurricane Warning by the National Weather Service, if the DESIGN/BUILD FIRM has not already done so, the DESIGN/BUILD FIRM shall implement its hurricane preparedness plan. Cost of development and implementation of the hurricane preparedness plan shall be considered as incidental to construction. Cost of any clean up and rework required after the storm will be considered normal construction risk within Florida and shall not entitle the DESIGN/BUILD FIRM to any additional compensation. DESIGN/BUILD FIRM shall be entitled to request an extension of time for completion of the Work, in accordance with the provision of Article 8 of this Agreement, equal to the time it is shut down for implementation of the preparedness plan, the duration of the storm and a reasonable period to restore the Premises.

- 11.20 Force Majeure: No Party shall hold the other responsible for damages or for delays in performance caused by force majeure, acts of God, or other acts or circumstances beyond the control of the other party or that could not have been reasonably foreseen and prevented. For these purposes, such acts or circumstances shall include, but not be limited to, weather conditions affecting performance, floods, epidemics, pandemics, act of Governmental Authority, state of emergency, war, riots, strikes, lockouts, or other industrial disturbances, or protest demonstrations. Should such acts or circumstances occur, the parties shall use their best efforts to overcome the difficulties arising therefrom and to resume the Work as soon as reasonably possible with the normal pursuit of the Work.

Inclement weather, continuous rain for less than three (3) days or the acts or omissions of subcontractors, third-party contractors, materialmen, suppliers, or their subcontractors, shall not be considered acts of force majeure.

No Party shall be liable for its failure to carry out its respective obligations under the Agreement during a period when such Party is rendered unable by force majeure to carry out its obligation, but the obligation of the Party or Parties relying on such force majeure shall be suspended only during the continuance of the inability and for no longer period than the unexpected or uncontrollable event.

The DESIGN/BUILD FIRM further agrees and stipulates, that its right to excuse its failure to perform by reason of force majeure shall be conditioned upon giving written notice of its assertion that a force majeure delay has commenced within 96 hours after such an occurrence. The DESIGN/BUILD FIRM shall use its reasonable efforts to minimize such delays. The DESIGN/BUILD FIRM shall promptly provide an estimate of the anticipated additional time required to complete the Project.

ARTICLE 12 - CITY'S RESPONSIBILITIES

- 12.1 CITY shall assist DESIGN/BUILD FIRM by placing at its disposal any available information pertinent to the Project including previous reports, laboratory tests and inspections of samples, materials and equipment; property, boundary, easement, rights-of-way, topographic and utility surveys; property descriptions; and known zoning, deed and other land use restrictions.
- 12.2 CITY shall arrange for access to and make all provisions for DESIGN/BUILD FIRM to enter upon public property as required for DESIGN/BUILD FIRM to perform its services.
- 12.3 CITY shall render decisions under this Agreement in a timely manner.

ARTICLE 13 - SUPERINTENDENCE AND SUPERVISION

- 13.1 The orders of the CITY are to be given through the Project Manager, whose instructions are to be strictly and promptly followed in every case, provided that they are in accordance with this Contract and the other Contract Documents. Construction Manager shall keep on the Project during its progress, a full-time, competent, English speaking supervisor, who shall be the Construction Manager Representative and who shall serve as the superintendent, and any necessary assistants, all satisfactory to the Project Manager.
- 13.2 Construction Manager or Construction Manager Representative shall prepare, on a daily basis, and keep on the Project site, a bound log setting forth at a minimum, for each day: the weather conditions and how any weather conditions affected progress of the Work; time of commencement of Work for the day; the Work performed; materials, labor, personnel, equipment and Subcontractors used for the Work; any idle equipment and reasons for idleness; visitors to the Project site; any special or unusual conditions or occurrences encountered; any materials delivered to the Project site; and the time of termination of Work for the day. The daily bound log shall be available for inspection by the CITY, or its authorized designee, at all times during the Project, without previous notice.
- 13.3 If DESIGN/BUILD FIRM, in the course of the Project, finds any discrepancy between the Contract Documents and the physical conditions of the site, or any errors or omissions in the Contract Documents including, but not limited to, the Plans and Specifications, it shall be DESIGN/BUILD FIRM's sole obligation and duty to immediately inform the Project Manager, in writing, and the Project Manager will promptly verify same. Any Work done prior to or after such discovery will be done at DESIGN/BUILD FIRM's sole risk. **NOTWITHSTANDING THE PRECEDING, OR ANY OTHER TERM OR CONDITION OF THIS AGREEMENT, DESIGN/BUILD FIRM HEREBY ACKNOWLEDGES AND AGREES THAT THIS IS A DESIGN/BUILD PROJECT**

AND, ACCORDINGLY, ANY ERRORS OR OMISSIONS SHALL BE CORRECTED AT THE SOLE COST AND EXPENSE OF DESIGN/BUILD FIRM AND WITHOUT A CLAIM FOR ADJUSTMENT IN THE CONTRACT TIME OR CONTRACT PRICE.

- 13.4 DESIGN/BUILD FIRM shall coordinate, supervise and direct the Project competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform and complete the Project in accordance with the Contract Documents. DESIGN/BUILD FIRM shall be solely responsible for the design, preparation of Construction Documents, means, methods, techniques, safety, sequences and procedures of construction. DESIGN/BUILD FIRM shall give efficient supervision to the Work, using DESIGN/BUILD FIRM's best skill, attention and judgment.

ARTICLE 14 - RESOLUTION OF DISPUTES

- 14.1 Questions, claims, difficulties and disputes of whatever nature which may arise relative to the technical interpretation of the Contract Documents and fulfillment of this Agreement as to the character, quality, amount and value of any work done and materials furnished, or proposed to be done or furnished under or, by reason of, the Contract Documents which cannot be resolved by mutual agreement of CITY Project Manager and DESIGN/BUILD TEAM Project Manager shall be submitted to the CITY Manager or his designee and DESIGN/BUILD TEAM'S representative for resolution. When either party has determined that a disputed question, claim, difficulty or dispute is at an impasse, that party shall notify the other party in writing and submit the question, claim, difficulty or dispute to the next level of the parties' respective management levels for resolution. Each party may determine in such party's reasonable discretion as to who the "next level of management" is for purposes of resolving disputes.
- 14.2 All non-technical administrative disputes (such as billing and payment) shall be determined by the Project Manager.
- 14.3 During the pendency of any dispute and after a determination thereof, DESIGN/BUILD TEAM, and CITY shall act in good faith to mitigate any potential damages including using construction schedule changes and alternate means of construction. During the pendency of any dispute arising under this Agreement, other than termination herein, DESIGN/BUILD TEAM shall proceed diligently with performance of this Agreement and CITY shall continue to make payments for undisputed amounts in accordance with the Contract Documents.
- 14.4 In the event a resolution of a dispute under this section cannot be resolved, the issue shall be submitted by the DESIGN/BUILD TEAM to the CITY MANAGER or designee, in writing within ten (10) days of the impasse. The notice must state the basis of the dispute and the DESIGN/BUILD TEAM's proposed resolution. The notice given by the DESIGN/BUILD TEAM must include a written notarized certification that any NTE adjustment claimed is the entire adjustment to which the DESIGN/BUILD TEEAM has reason to believe it is entitled to as a result of the question, claim, difficulty or dispute. Resolution of such dispute shall be made by the City Manager or designee. The City

Manager's decision shall be final and binding on the parties subject to mediation and judicial review.

- 14.5 Prior to any litigation being commenced, for any disputes which remain unresolved, within sixty (60) days after Final Completion of the Work, the parties shall participate in mediation to address all unresolved disputes to a mediator mutually agreed upon by the parties. Should any objection not be resolved in mediation, the parties retain all their legal rights and remedies provided under the laws of Florida. Failure by a party to comply in strict accordance with the requirements of this Article, then said party specifically waives all of its rights provided hereunder, including its rights and remedies under the laws of Florida.

ARTICLE 15 - CITY'S RIGHT TO TERMINATE AGREEMENT

- 15.1 If DESIGN/BUILD FIRM fails to begin the design and construction of the Project within the time specified, or fails to perform the Project with sufficient workers and equipment or with sufficient materials to insure the prompt completion of the Project, in accordance with the Contract Documents and schedules, or shall perform the Work unsuitably, or cause it to be rejected as defective and unsuitable; or shall discontinue the prosecution of the Project, except for excused delays in accordance with this Agreement; or if DESIGN/BUILD FIRM shall become insolvent or be declared bankrupt, or commit any act of bankruptcy or insolvency, or shall make an assignment for the benefit of creditors; or shall not carry on the Project in accordance with the Contract Documents, then the CITY shall give notice, in writing, to DESIGN/BUILD FIRM and its surety of such delay, neglect or default, specifying the same. If DESIGN/BUILD FIRM within a period of ten (10) calendar days after such notice, shall not proceed in accordance therewith, then CITY may, upon written notice from the Project Manager of the fact of such delay, neglect or default and DESIGN/BUILD FIRM's failure to comply with such notice, terminate the services of DESIGN/BUILD FIRM, exclude DESIGN/BUILD FIRM from the Project site, and take the prosecution of the Project out of the hands of DESIGN/BUILD FIRM, as appropriate, or use any or all materials and equipment on the Project site as may be suitable and acceptable, in the CITY's reasonable discretion. In such case, DESIGN/BUILD FIRM shall not be entitled to receive any further payment until the Project is finished. In addition, CITY may enter into an Agreement for the completion of the Project according to the terms and provisions of the Contract Documents, or use such other methods as in its opinion shall be required for the completion of the Project in an acceptable manner. All damages, costs and charges incurred by CITY shall be deducted from any monies due or which may become due to said DESIGN/BUILD FIRM. Actions will be instituted to recover on the posted bonds. In case the damages and expense so incurred by CITY shall be less than the sum which would have been payable under this Agreement, if it had been completed by said DESIGN/BUILD FIRM, then DESIGN/BUILD FIRM shall be entitled to receive the difference. If such damages and costs exceed the unpaid balance, then DESIGN/BUILD FIRM shall be liable and shall pay to CITY the amount of said excess.
- 15.2 If, after Notice of Termination of DESIGN/BUILD FIRM's right to proceed, it is determined for any reason that DESIGN/BUILD FIRM was not in default, the rights and obligations of CITY and DESIGN/BUILD FIRM shall be the same as if the notice of

termination had been issued pursuant to the Termination for Convenience clause, as set forth in Section 15.3 below.

- 15.3 Notwithstanding any other provision in this Agreement, the performance of work under this Agreement may be terminated in writing by CITY, for convenience and without cause, upon ten (10) business days from the date of DESIGN/BUILD FIRM's receipt of the written notice to DESIGN/BUILD FIRM of intent to terminate and the date on which such termination becomes effective. In such case, DESIGN/BUILD FIRM shall be paid for all work and reimbursables executed, and expenses incurred, such as materials stored, cost of severance of leases/contracts directly associated with the Project, and demobilization prior to termination. PAYMENT SHALL INCLUDE REASONABLE PROFIT FOR SERVICES ACTUALLY PERFORMED IN FULL PRIOR TO TERMINATION DATE, BUT SHALL EXCLUDE ALL LOST PROFITS, INDIRECT CONSEQUENTIAL, SPECIAL OR OTHER DAMAGES.
- 15.4 Upon receipt of Notice of Termination pursuant to Sections 15.1 and 15.2 above, DESIGN/BUILD FIRM shall, at its sole cost and expense (other than demobilization as a result of the Notice of Termination pursuant to Section 15.3 which shall be paid for by the CITY) and as a condition precedent to any further payment obligation by the CITY, promptly discontinue all affected work, unless the Notice of Termination directs otherwise, and deliver to CITY within seven (7) calendar days of termination, all data, drawings, specifications, reports, estimates, summaries and such other information as may have been required by the Contract Documents, whether completed or in process. Compensation shall be withheld until all documents are produced to CITY pursuant to this Article.

ARTICLE 16 - DESIGN/BUILD FIRM'S RIGHT TO STOP WORK OR TERMINATE CONTRACT

- 16.1 If the Project should be stopped under any order of any court or other public authority for a period of more than ninety (90) calendar days, through no act or fault of DESIGN/BUILD FIRM or of anyone employed by DESIGN/BUILD FIRM, or if the Project Manager should fail to review and approve or state in writing reasons for non-approval of any requisition for payment within twenty (20) business days after it is presented; or if CITY fails to pay DESIGN/BUILD FIRM within thirty (30) calendar days after submittal of a proper requisition for payment, as approved by the Project Manager, then DESIGN/BUILD FIRM may give written notice to CITY, of such delay, neglect or default, specifying same. If CITY, within a period of ten (10) business days after such written notice, shall not remedy the delay, neglect, or default upon which notice is based, then DESIGN/BUILD FIRM may stop work until payment is made, or terminate this Agreement and recover from CITY payment for all Work executed and reasonable expenses sustained, but excluding any claim for payments for lost profits, indirect, special, consequential or other damages.

ARTICLE 17 - NOTICES

- 17.1 Whenever either party desires to give notice to the other, such notice must be in writing with proof of delivery or receipt. The notice shall be address to the party for whom it is intended at the place last specified; and the place for giving of notice shall remain until it shall have been changed by written notice in compliance with the provisions of this paragraph. For the present, the parties designate the following as the respective places for giving notice:

| | |
|--|--|
| <p>FOR THE CITY: City Manager City of Fort Lauderdale 100 North Andrews Avenue Fort Lauderdale, Florida 33301 with copies to:</p> | <p>FOR THE DESIGN/BUILD TEAM: David Mancini & Sons, Inc. Attn: David Mancini Jr. 2601 Wiles Road Pompano Beach, FL 33073</p> |
| <p>Project Manager and City Attorney City of Fort Lauderdale 100 North Andrews Avenue Fort Lauderdale, Florida 33301</p> | |

ARTICLE 18 – BONDS AND INSURANCE

- 18.1 DESIGN/BUILD FIRM shall furnish, or cause to be furnished, on or before seven (7) days after execution of this Agreement, the following:

Performance Bond and Payment Bond (Surety)

- 18.2 THE DESIGN/BUILD FIRM shall execute and record in the public records of Broward County, Florida, a payment and performance bond in an amount at least equal to the Contract Price guaranteeing to CITY the completion and performance of the Project covered in this Agreement as well as full payment of all suppliers, material persons, laborers, or Subcontractors employment pursuant to the Project. The Payment and Performance bond shall be with a surety insurer authorized to do business in the state of Florida as surety, (“Bond”), in accordance with Sec. 255.05, Fla. Stat., as may be amended or revised, as security for the faithful performance and payment of all of the Contractor’s obligations under the Contract Documents. The performance and payment bond shall remain in full force and effect during the Project and 60 days beyond the contract term for close out.

Insurance Requirements

- 18.3 As a condition precedent to the effectiveness of this Agreement, during the term of this Agreement and during any renewal or extension term of this Agreement, the DESIGN/BUILD FIRM, at the DESIGN/BUILD FIRMS’s sole expense, shall provide insurance of such types and with such terms and limits as noted below. Providing proof of and maintaining adequate insurance coverage are material obligations of the DESIGN/BUILD FIRM. The DESIGN/BUILD FIRM shall provide the City a certificate

of insurance evidencing such coverage. The DESIGN/BUILD FIRM's insurance coverage shall be primary insurance for all applicable policies. The limits of coverage under each policy maintained by the DESIGN/BUILD FIRM shall not be interpreted as limiting the DESIGN/BUILD FIRM's liability and obligations under this Agreement. All insurance policies shall be from insurers authorized to write insurance policies in the State of Florida and that possess an A.M. Best rating of "A-" VII or better. All insurance policies are subject to approval by the City's Risk Manager.

The coverages, limits, and/or endorsements required herein protect the interests of the City, and these coverages, limits, and/or endorsements shall in no way be required to be relied upon by the DESIGN/BUILD FIRM for assessing the extent or determining appropriate types and limits of coverage to protect the DESIGN/BUILD FIRM against any loss exposures, whether as a result of this Agreement or otherwise. The requirements contained herein, as well as the City's review or acknowledgement, are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the DESIGN/BUILD FIRM under this Agreement. The following insurance policies and coverages are required:

COMMERCIAL GENERAL LIABILITY

Coverage must be afforded under a Commercial General Liability policy with limits not less than:

- \$1,000,000 each occurrence and \$2,000,000 project aggregate for Bodily Injury, Property Damage, and Personal and Advertising Injury
- \$1,000,000 each occurrence and \$2,000,000 project aggregate for Products and Completed Operations

Policy must include coverage for Contractual Liability, Independent Consultants, and contain no exclusions for explosions, collapse, or underground.

The City, a political subdivision of the State of Florida, its officials, employees, and volunteers are to be covered as an additional insured with a CG 20 26 04 13 Additional Insured – Designated Person or Organization Endorsement or similar endorsement providing equal or broader Additional Insured Coverage with respect to liability arising out of activities performed by or on behalf of the Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, its officials, employees, or volunteers.

BUSINESS AUTOMOBILE LIABILITY

Coverage must be afforded for all Owned, Hired, Scheduled, and Non-Owned vehicles for Bodily Injury and Property Damage in an amount not less than \$1,000,000 combined single limit each accident.

If the DESIGN/BUILD FIRM does not own vehicles, the DESIGN/BUILD FIRM shall maintain coverage for Hired and Non-Owned Auto Liability, which may be satisfied by way of

endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

WORKER'S COMPENSATION and EMPLOYER'S LIABILITY

Coverage must be afforded per Chapter 440, Florida Statutes. Any person or entity performing work for or on behalf of the City must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute.

The DESIGN/BUILD FIRM waives all subrogation rights against the City, a political subdivision of the State of Florida, its officials, employees, and volunteers for all losses or damages. The City requires the policy to be endorsed with WC 03 13 Waiver of our Right to Recover from Others or equivalent.

The DESIGN/BUILD FIRM must be in compliance with all applicable State and Federal workers' compensation laws, including the U.S. Longshore Harbor Workers' Act and the Jones Act, if applicable.

For any DESIGN/BUILD FIRM who has exempt status as an individual, the City requires proof of Workers' Compensation insurance coverage for that DESIGN/BUILD FIRM's employees, leased employees, volunteers, and any workers performing work in execution of this Agreement.

If the DESIGN/BUILD FIRM has applied for a workers' compensation exemption, the City does not recognize this exemption to extend to the employees of the DESIGN/BUILD FIRM. The DESIGN/BUILD FIRM is required to provide proof of coverage for their employees, leased employees, volunteers and any workers performing work in execution of this Agreement. This applies to all consultants including but not limited to the construction industry.

PROFESSIONAL LIABILITY and/or ERRORS and OMISSIONS

Coverage must be afforded for Wrongful Acts in an amount not less than \$5,000,000 each claim and \$5,000,000 aggregate.

DESIGN/BUILD FIRM must keep insurance in force until the third anniversary of expiration of this Agreement or the third anniversary of acceptance of work by the City.

PROPERTY COVERAGE (BUILDER'S RISK)

Coverage must be afforded in an amount not less than 100% of the total project cost, including soft costs, with a deductible of no more than \$25,000 each claim. Coverage form shall include, but not be limited to:

- All Risk Coverage including Flood and Windstorm with no coinsurance clause
- Guaranteed policy extension provision
- Waiver of Occupancy Clause Endorsement, which will enable the City to occupy the facility under construction/renovation during the activity

- Storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project
- Equipment Breakdown for cold testing of all mechanized, pressurized, or electrical equipment

For installation of property and/or equipment, DESIGN/BUILD FIRM must provide Builder's Risk Installation insurance to include coverage for materials or equipment stored at the project site, while in transit, or while stored at a temporary location. Coverage limit must be no less than replacement cost.

This policy shall insure the interests of the owner, contractor, and subcontractors in the property against all risk of physical loss and damage, and name the City as a loss payee. This insurance shall remain in effect until the work is completed and the property has been accepted by the City.

Insurance Certificate Requirements

- a. The DESIGN/BUILD FIRM shall provide the City with valid Certificates of Insurance (binders are unacceptable) no later than thirty (30) days prior to the start of work contemplated in this Agreement.
- b. The DESIGN/BUILD FIRM shall provide a Certificate of Insurance to the City with a thirty (30) day notice of cancellation; ten (10) days' notice if cancellation is for nonpayment of premium.
- c. In the event that the insurer is unable to accommodate the cancellation notice requirement, it shall be the responsibility of the DESIGN/BUILD FIRM to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested, and addressed to the certificate holder.
- d. In the event the Agreement term goes beyond the expiration date of the insurance policy, the DESIGN/BUILD FIRM shall provide the City with an updated Certificate of Insurance no later than ten (10) days prior to the expiration of the insurance currently in effect. The City reserves the right to suspend the Agreement until this requirement is met.
- e. The certificate shall indicate if coverage is provided under a claims-made or occurrence form. If any coverage is provided on a claims-made form, the certificate will show a retroactive date, which should be the same date of the initial contract or prior.
- f. The City shall be named as an Additional Insured on all liability policies, with the exception of Workers' Compensation.
- g. The City shall be granted a Waiver of Subrogation on the Contractor's Workers' Compensation insurance policy.
- h. The Agreement, Bid/Contract number, event dates, or other identifying reference must be listed on the certificate.

The Certificate Holder must read as follows:

City of Fort Lauderdale

100 N. Andrews Avenue
Fort Lauderdale, FL 33301

- 18.4 The DESIGN/BUILD FIRM has the sole responsibility for all insurance premiums and shall be fully and solely responsible for any costs or expenses as a result of a coverage deductible, co-insurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, co-insurance penalty, self-insured retention, or coverage exclusion or limitation. Any costs for adding the City as an Additional Insured shall be at the DESIGN/BUILD FIRM's expense.

If the DESIGN/BUILD FIRM primary insurance policy/policies do not meet the minimum requirements, as set forth in this Agreement, the DESIGN/BUILD FIRM may provide an Umbrella/Excess insurance policy to comply with this requirement.

The DESIGN/BUILD FIRM's insurance coverage shall be primary insurance as respects to the City, a political subdivision of the State of Florida, its officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officials, employees, or volunteers shall be excess of DESIGN/BUILD FIRM's insurance and shall be non-contributory.

Any exclusions or provisions in the insurance maintained by the DESIGN/BUILD FIRM that excludes coverage for work contemplated in this Agreement shall be deemed unacceptable and shall be considered breach of contract.

All required insurance policies must be maintained until the contract work has been accepted by the City, and/or this Agreement is terminated. Any lapse in coverage shall be considered breach of contract. In addition, DESIGN/BUILD FIRM must provide confirmation of coverage renewal via an updated certificate should any policies expire prior to the expiration of this Agreement. The City reserves the right to review, at any time, coverage forms and limits of DESIGN/BUILD FIRM's insurance policies.

All notices of any claim/accident (occurrences) associated with this Agreement, shall be provided to the DESIGN/BUILD FIRM's insurance company and the City's Risk Management office as soon as practical.

It is the DESIGN/BUILD FIRM's responsibility to ensure that all independent and subconsultants comply with these insurance requirements. All coverages for independent and subconsultants shall be subject to all of the requirements stated herein. Any and all deficiencies are the responsibility of the DESIGN/BUILD FIRM.

Certificates will indicate no modification or change in insurance shall be made without thirty (30) days in advance notice to the certificate holder. Compliance with the foregoing requirements shall not relieve the DESIGN/BUILD FIRM of its liability and obligation under this section or under any other section of this Agreement.

- 18.5 The DESIGN/BUILD FIRM shall be responsible for assuring that the insurance certificates required in conjunction with this Section remain in force for the duration of the Project. If insurance certificates are scheduled to expire during the contractual period,

the DESIGN/BUILD FIRM shall be responsible for submitted new or renewed insurance certificates to the City at a minimum of thirty (30) calendar days in advance of such expiration. In the event that expired certificates are not replaced with new or renewed certificates that cover the contractual period, the CITY shall:

- A. Suspend the Agreement until such time as the new or renewed certificates are received by the CITY;
- B. The CITY may, at its sole discretion, terminate the Agreement for cause and seek damages from the Contractor in conjunction with the violation of the terms and conditions of the Agreement.

ARTICLE 19 - SUBSTANTIAL COMPLETION

- 19.1 When DESIGN/BUILD FIRM considers that the Project, or a designated portion thereof, which is acceptable to CITY, in the event CITY chooses to accept same pursuant to the sole authority and discretion, is substantially complete, DESIGN/BUILD FIRM shall so notify the Project Manager, in writing, and shall prepare for submission to the Project Manager a thorough list of items to be completed or corrected, together with a schedule for completion of all items. The failure to include any items on such list does not alter the responsibility of DESIGN/BUILD FIRM to complete all Work in accordance with the Contract Documents. The Project Manager, and such other persons as they may deem necessary, shall conduct a joint inspection to determine that the Project (or designated portion thereof) is substantially complete.
- 19.2 The Project Manager will then instruct DESIGN/BUILD FIRM to prepare and deliver to the Contract Administrator a Certificate of Substantial Completion which shall establish the date of Substantial Completion for the Project (or that portion of the Project). After review of the certificate by the Contract Administrator, CITY shall either accept or reject the certificate. Acceptance of Substantial Completion by CITY shall be based upon compliance with the Contract Documents and Applicable Laws. DESIGN/BUILD FIRM shall have thirty (30) days to complete the items listed therein. Warranties required by the Contract Documents and submitted in appropriate form to the Project Manager along with the request for Substantial Completion shall commence on the date of Substantial Completion of the Project (or for that portion of the Project). The Certificate of Substantial Completion shall be submitted to CITY through the Project Manager and DESIGN/BUILD FIRM for its written acceptance of the responsibilities assigned to it in such Certificate.

ARTICLE 20 – FINAL COMPLETION

- 20.1 When the DESIGN/BUILD FIRM considers that the Project, or a designated portion thereof, which is acceptable to CITY, in the event CITY chooses to accept same pursuant to the sole authority and discretion, is finally complete, DESIGN/BUILD FIRM shall so notify the Project Manager, in writing, that the work is complete, and that the DESIGN/BUILD FIRM has satisfied all prerequisites to Final Completion. The DESIGN/BUILD FIRM and the Project Manager and such other persons as they may deem necessary, shall conduct a final

inspection. The DESIGN/BUILD FIRM will notify in writing of all particulars in which this inspection reveals that the work is incomplete, non-conforming or defective. Construction Manager shall immediately take such measures as are necessary to complete such work or remedy such deficiencies, and shall notify all parties that the Project (or designated portion thereof) is finally complete.

After Project Manager will then instruct DESIGN/BUILD FIRM to prepare and deliver to the Project Manager a Certificate of Final Completion which shall establish the date of Final Completion for the Project (or that portion of the Project). After review of the certificate by the Project Manager, CITY shall either accept or reject the certificate. Acceptance of Final Completion by CITY shall be based upon compliance with the Contract Documents and Applicable Laws. DESIGN/BUILD FIRM shall have thirty (30) days to complete the items listed therein. Warranties required by the Contract Documents and submitted in appropriate form to the Project Manager along with the request for Final Completion shall commence on the date of Final Completion of the Project (or for that portion of the Project). The Certificate of Final Completion shall be submitted to CITY through the Project Manager and DESIGN/BUILD FIRM for its written acceptance of the responsibilities assigned to it in such Certificate.

ARTICLE 21 - SHOP DRAWINGS AND SCHEDULE OF VALUES

- 21.1 DESIGN/BUILD FIRM shall submit Shop Drawings for all equipment, apparatus, machinery, fixtures, piping, wiring, fabricated structures and manufactured articles. The purpose of a Shop Drawing is to show the suitability, efficiency, technique of manufacture, installation requirements, details of the item and evidence of its compliance or noncompliance with the Contract Documents.
- 21.2 DESIGN/BUILD FIRM shall thoroughly review and check the Shop Drawings and each and every copy shall show DESIGN/BUILD FIRM's approval thereon.
- 21.3 If the Shop Drawings show or indicate departures from the Contract requirements, DESIGN/BUILD FIRM shall make specific mention thereof in its shop drawing submittal and a separate letter. Failure to point out such departures shall not relieve DESIGN/BUILD FIRM from its responsibility to comply with the Contract Documents. Project Manager shall determine acceptability of change and, in considering said change, may require data, technical comparisons, cost comparisons, quality comparisons and/or calculations to determine the equality of deviations. Contract Administrator is not obligated to accept deviations.
- 21.4 No acceptance will be given to partial submittal of Shop Drawings for items which interconnect and/or are interdependent. It is DESIGN/BUILD FIRM's responsibility to assemble the Shop Drawings for all such interconnecting and/or independent items, check them, and then make one (1) submittal to the Project Manager, along with DESIGN/BUILD FIRM's comments as to compliance, noncompliance, or features requiring special attention.

- 21.5 If catalog sheets or prints of manufacturers' standard drawings are submitted as Shop Drawings, any additional information or changes on such drawings shall be typewritten or lettered in ink. Catalog sheet with multiple options shall be highlighted to depict specific pertinent data including options.
- 21.6 DESIGN/BUILD FIRM shall submit to Project Manager five (5) copies. Re-submissions of Shop Drawings shall be made in the same quantity until final acceptance is obtained.
- 21.7 Project Manager's acceptance of the Shop Drawings, as approved by DESIGN/BUILD FIRM, will be for general compliance with the Plans and Specifications, and shall not relieve DESIGN/BUILD FIRM of responsibility for the accuracy of such Drawings, nor for the proper fittings and construction of the Work, nor for the furnishing of the Materials or Work required by the Contract and not indicated on the Drawings.
- 21.8 DESIGN/BUILD FIRM shall keep one (1) set of Shop Drawings, marked with the Project Manager's acceptance, as the Project site at all times.
- 21.9 The DESIGN/BUILD FIRM shall submit a Schedule of Values to the Project Manager as specified in the Technical Specifications. DESIGN/BUILD FIRM shall submit to the Project Manager a separate Schedule of Values for demolition, abatement, and site work ten (10) calendar days prior to commencing such portion of the Work. The schedule will be typed on 8 ½" x 11" white paper listing: title of Project, location, Project number, Consultant, Contractor, Contract designation and date of submission. The schedule shall list the installed value of the component parts of the Work in sufficient detail to serve as a basis for computing values for progress payments during the construction. The table of contents of the specifications shall establish the format for listing the component items. Each line item will be identified by the number and title of the respective major section of the specifications. For each line item, DESIGN/BUILD FIRM shall list the sub-values of major products or operations under the item. Each item shall include the proportion of DESIGN/BUILD FIRM's overhead and profit. For any items for which progress payments will be requested for stored materials, the value will be broken down with:

A. Schedule must include the following but is not limited to:

Separate identifiable activity on the critical path, an activity labeled "Other Conditions Allowance". This activity duration shall be thirty (30) calendar days and inserted at the end of the schedule prior to Substantial Completion. This allowance may or may not be used at the discretion of the City. Use of this activity shall be subject to the review and approval of the City and the Design Criteria Professional. The duration of the "Other Conditions Allowance" activity shall be reduced as other conditions are experienced and inserted in the schedule.

- B. The cost of materials delivered, unloaded, properly stored and safeguarded, with taxes paid; and
- C. The total installed value review.

ARTICLE 22 - FIELD ENGINEERING

- 22.1 The DESIGN/BUILD FIRM shall provide and pay for field engineering services required for the Project. This work shall include the following elements:
- A. Survey work required in execution of the Project;
 - B. Civil, structural or other professional engineering, architectural, landscape architectural, or land surveying services specified, or required to execute the DESIGN/BUILD FIRM's construction methods;
 - C. The survey completed by DESIGN/BUILD FIRM will identify the qualified engineer or registered land surveyor, acceptable to the CITY, and he or she shall be retained by the DESIGN/BUILD FIRM at the outset of this Project;
 - D. The survey will locate and protect control points prior to starting site work, and will preserve all permanent reference points during construction;
 - E. No changes or relocations will be made without prior written notice to the Project Manager;
 - F. A written report shall be made to the Project Manager when any reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations;
 - G. The surveyor shall be required to replace Project control points which may be lost or destroyed. The surveyor shall be duly registered as a surveyor or mapper, as required by state law;
 - H. Replacement shall be established based upon original survey control.
- 22.2 The survey completed by DESIGN/BUILD FIRM will identify the qualified engineer or registered land surveyor, acceptable to the CITY, and he or she shall be retained by the DESIGN/BUILD FIRM at the outset of this Project.
- 22.2.1 The survey will locate and protect control points prior to starting site work, and will preserve all permanent reference points during construction.
 - 22.2.2 No changes or relocations will be made without prior written notice to the Project Manager.
 - 22.2.3 A written report shall be made to the Project Manager when any reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
 - 22.2.4 The surveyor shall be required to replace Project control points which may be lost or destroyed. The surveyor shall be duly registered as a surveyor or mapper, as required by state law.

22.2.5 Replacements shall be established based upon original survey control.

ARTICLE 23 - FIELD LAYOUT FOR THE WORK AND RECORD DRAWINGS

- 23.1 The entire responsibility for establishing and maintaining a line and grade in the field lies with DESIGN/BUILD FIRM. DESIGN/BUILD FIRM shall maintain an accurate and precise horizontal and vertical record of the existing pavement conditions; final pavement conditions; and all pipe lines, conduits, structures, underground utility access portals, handholes, fittings, etc. encountered or installed during construction. DESIGN/BUILD FIRM shall deliver these records in good order to the Contract Administrator as the work is completed. These records shall serve as a basis for “as-built” drawings. The cost of all such field layout and recording work is included in the Contract Price.
- 23.2 DESIGN/BUILD FIRM shall maintain in a safe place at the site, one (1) record copy of the Plans and Specifications, addenda, written amendments, Change Orders and written interpretations and clarifications, in good order and annotated to show all changes made during construction. These record documents, together with all approved samples and a counterpart of all approved Shop Drawings, will be available to Contract Administrator for reference. Upon completion of the Project, these record documents, samples and Shop Drawings shall be delivered to Contract Administrator.
- 23.3 At the completion of the Project, the DESIGN/BUILD FIRM shall turn over to the City a set of reproducible drawings and a complete set of all drawings in the latest version of AutoCAD on Compact Disk, not compressed, which accurately reflect the “as-built” conditions of the new facilities. All changes made to the Construction Documents, either as clarifications or as changes, will be reflected in the plans. The changes shall be submitted at least monthly to the Project Manager. These “as-built” drawings are to be AutoCAD version 2018 and to City Standard Details and CADD Standards. Format media must be delivered and found to be acceptable prior to final payments.

ARTICLE 24 - NO DAMAGES FOR DELAY

- 24.1 NO CLAIM FOR DAMAGES OR ANY CLAIM OTHER THAN FOR AN EXTENSION OF TIME SHALL BE MADE OR ASSERTED AGAINST CITY BY REASON OF ANY DELAYS. DESIGN/BUILD FIRM shall not be entitled to an increase in the Contract Price or payment or compensation of any kind from CITY for direct, indirect, consequential, impact, or other costs, expenses or damages including, but not limited to, costs of acceleration or inefficiency arising because of delay, disruption, interference or hindrance from any cause whatsoever, whether such delay, disruption, interference, or hindrance be reasonable or unreasonable, foreseeable or unforeseeable, or avoidable or unavoidable; provided, DESIGN/BUILD FIRM hindrances or delays are not due solely to fraud, bad faith or active interference by the CITY, DESIGN/BUILD FIRM shall be entitled only to extensions of the Contract Time as the sole and exclusive remedy for such resulting delays, in accordance with and to the extent specifically provided above. The specific application of this Article to other provisions of this Agreement shall not be construed as a limitation of any sort upon the further application of this Article. Ten Dollars (\$10.00) of DESIGN/BUILD FIRM’s fee is acknowledged as separate and independent consideration for the covenants contained in this Article.

ARTICLE 25- LIMITATION OF LIABILITY

- 25.1 The CITY desires to enter into this Agreement only if in so doing the CITY can place a limit on the CITY's liability for any cause of action arising out of this Agreement, so that the CITY's liability for any breach never exceeds the sum of \$1,000.00. For other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the DESIGN/BUILD FIRM hereby expresses its willingness to enter into this Agreement with the knowledge that the DESIGN/BUILD FIRM's recovery from the CITY to any action or claim arising from the Agreement is limited to a maximum amount of \$1,000.00, which amount shall be reduced by the amount actually paid by the CITY to the DESIGN/BUILD FIRM pursuant to this Agreement, for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any way intended either to be a waiver of the limitation placed upon the CITY's liability beyond the limits established in Fla. Stat. Sec. 768.28; and no claim or award against the CITY shall include attorney's fees, investigative costs, expert fees, suit costs or pre-judgment interest.

ARTICLE 26 - GOVERNING LAW

- 26.1 This Agreement shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. Any controversies or legal problems arising out of this Agreement and any action involving the enforcement or interpretation of any rights hereunder shall be submitted to the exclusive jurisdiction of the State courts of the Seventeenth Judicial Circuit of Broward County, Florida, the venue situs, and shall be governed by the laws of the State of Florida. To encourage prompt and equitable resolution of any litigation that may arise hereunder, EACH PARTY HEREBY WAIVES ANY RIGHTS IT MAY HAVE TO A TRIAL BY JURY OF ANY SUCH LITIGATION. DESIGN/BUILD FIRM SHALL SPECIFICALLY BIND ITS PROJECT TEAM MEMBERS AND ANY AND ALL SUBCONTRACTORS TO THE PROVISIONS OF THE CONTRACT.

ARTICLE 27 - MISCELLANEOUS PROVISIONS

- 27.1 **OWNERSHIP OF DOCUMENTS:** All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, specifications, plans and reports prepared or provided by DESIGN/BUILD FIRM in connection with this Agreement shall become the property of CITY, whether the Project for which they are made is completed or not, shall become the property of CITY and shall be delivered by DESIGN/BUILD FIRM to Project Manager within fifteen (15) days of the receipt of the written notice of termination or upon completion of the Project. If applicable, CITY may withhold payments then due to DESIGN/BUILD FIRM until DESIGN/BUILD FIRM complies with the provisions of this section.
- 27.2 **AUDIT RIGHT AND RETENTION OF RECORDS:** CITY shall have the right to audit the books, records, and accounts of DESIGN/BUILD FIRM that are related to this Project. DESIGN/BUILD TEAM shall keep such books, records, and accounts as may be necessary in order to record complete and correct entries related to the Project. DESIGN/BUILD FIRM shall preserve and make available, at reasonable times for

examination and audit by CITY, all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida Public Records Act, Chapter 119, Florida Statutes, or, if the Florida Public Records Act is not applicable, for a minimum period of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer, the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida Public Records Act is determined by CITY to be applicable to DESIGN/BUILD FIRM's records, DESIGN/BUILD FIRM shall comply with all requirements thereof; however, no confidentiality or non-disclosure requirement of either federal or state law shall be violated by DESIGN-BUILD FIRM. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for CITY's disallowance and recovery of any payment upon such entry.

- 27.3 **ARCHITECT/ENGINEER:** DESIGN/BUILD FIRM shall use the architect/engineer, including subconsultants, identified in the proposal that were a material part of the selection of the DESIGN/BUILD TEAM to provide the services for this Project. DESIGN/BUILD FIRM shall obtain written approval of CITY's Public Works Director prior to changing or modifying the list of subconsultants submitted by the DESIGN/BUILD FIRM. SEE APPENDICES attached hereto and made a part hereof.
- 27.4 **ASSIGNMENT AND PERFORMANCE:** Neither this Agreement nor any interest herein shall be assigned, transferred, or encumbered without the prior written consent of the other party.
- 27.5 **ONE ORIGINAL AGREEMENT:** This Agreement will be executed in one original.
- 27.6 **ALL PRIOR AGREEMENTS SUPERSEDED:** This Agreement incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein; and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this Agreement that are not contained in this Agreement. Accordingly, the parties agree that no deviation from the terms hereof shall be predicated upon any prior representations or agreements whether oral or written.
- 27.7 **AMENDMENTS:** No modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed by both parties with the same formality and of equal dignity herewith.
- 27.8 **INDEPENDENT CONTRACTOR:** DESIGN/BUILD FIRM is an independent contractor under this Agreement. Services provided by DESIGN/BUILD FIRM shall be subject to the supervision of DESIGN/BUILD FIRM. In providing the services, DESIGN/BUILD FIRM or its agents shall not be acting and shall not be deemed as acting as officers, employees, or agents of the CITY. No partnership, joint venture, or other joint relationship is created hereby. CITY does not extend to DESIGN/BUILD FIRM or its agents any authority of any kind to bind CITY in any respect whatsoever.

- 27.9 **THIRD PARTY BENEFICIARIES:** Neither DESIGN/BUILD FIRM or CITY intends to directly or substantially benefit a third party by this Agreement. The parties expressly acknowledge that it is not their intent to create any rights or obligations in any third person or entity under this Agreement. Therefore, the parties agree that there are no third party beneficiaries to this Agreement and that no third party shall be entitled to assert a claim against either of them based upon this Agreement.
- 27.10 **WAIVER OF BREACH AND MATERIALITY:** Failure by the CITY or DESIGN/BUILD FIRM to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement.
- 27.11 **MATERIAL TERM:** CITY and DESIGN/BUILD FIRM agree that each requirement, duty, and obligation set forth herein is substantial and important to the formation of this Agreement, and therefore, is a material term hereof.
- 27.12 **COMPLIANCE WITH LAWS:** DESIGN/BUILD FIRM shall comply with all federal, state, and local laws, codes, ordinances, rules and regulations in performing its duties, responsibilities, and obligations related to this Agreement.
- 27.13 **NONDISCRIMINATION, EQUAL EMPLOYMENT OPPORTUNITY, AND AMERICANS WITH DISABILITIES ACT:** DESIGN/BUILD FIRM shall not unlawfully discriminate against any person in its operations and activities in its use or expenditure of the funds or any portion of the funds provided by this Agreement and shall affirmatively comply with all applicable provisions of the Americans with Disabilities Act in the course of providing any services funded in whole or in part by CITY, including Titles 1 and 11 of the Act, and all applicable regulations, guidelines and standards.

DESIGN/BUILD FIRM's decisions regarding the delivery of work and services under this Agreement shall be made without regard to or consideration of race, age, religion, color, gender, sexual orientation, national origin, marital status, physical or mental disability, political affiliation, or any other factor which cannot be lawfully or appropriately used as a basis for service delivery.

DESIGN/BUILD FIRM shall comply with Title 1 of the Americans with Disabilities Act regarding nondiscrimination on the basis of disability in employment and further shall not discriminate against any employee or applicant for employment because of race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability. In addition, DESIGN/BUILD FIRM shall take affirmative steps to ensure nondiscrimination in employment against disabled persons. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship) and accessibility.

DESIGN/BUILD FIRM shall take affirmative action to ensure that applicants are employed and employees are treated without regard to race, age, religion, color, gender, sexual orientation, national origin, marital status, political affiliation, or physical or mental disability during employment. Such actions shall include, but not be limited to, the

following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, termination, rates of pay, other forms of compensation, terms and conditions of employment, training (including apprenticeship) and accessibility.

- 27.14 **PUBLIC ENTITY CRIMES ACT:** In accordance with the Public Entity Crimes Act, Sec. 287.133, Florida Statutes, a person or affiliate who is a contractor, consultant or other provider, who has been placed on the convicted vendor list following a conviction for a Public Entity Crime, may not submit a bid on a contract to provide any goods or services to the CITY, may not submit a bid on a contract with the CITY for the construction or repair of a public building or public work, may not submit bids on leases of real property to the CITY, may not be awarded or perform work as a contractor supplier, Subcontractor or consultant under a contract with the CITY and may not transact any business with the CITY in excess of the threshold amount provided in Section 287.017, Florida Statutes, as amended, for category two purchases for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. Violation of this section shall result in cancellation of the CITY purchase and may result in debarment.
- 27.15 **SEVERENCE:** In the event a portion of this Agreement is found by a court of competent jurisdiction to be invalid, the remaining provisions shall continue to be effective unless CITY elects to terminate this Agreement. The election to terminate this Agreement based upon this provision shall be made within seven (7) days after the finding by the court becomes final.
- 27.16 **JOINT PREPARATION:** Preparation of this Agreement has been a joint effort of the CITY and DESIGN/BUILD FIRM and the resulting document shall not, solely as a matter of judicial construction, be construed more severely against one of the parties than any other.
- 27.17 **PRIORITY OF PROVISIONS:** If there is a conflict or inconsistency between any term, statement, requirement, or provision of any exhibit attached hereto, any document or events referred to herein, or any document incorporated into this Agreement by reference and a term, statement, requirement, or provision of this Agreement, the term, statement, requirement, or provision contained in Articles 1 through 21 shall prevail and be given effect.
- In the event of a conflict among the Contract Documents, the most stringent requirement shall control.
- 27.18 **TAXES:** DESIGN/BUILD FIRM shall pay all applicable sales, consumer, use and other taxes as required by law. DESIGN/BUILD FIRM is responsible for reviewing the pertinent state statutes involving state taxes and complying with all requirements. All such taxes that are required as of the time of Agreement execution shall be included in the Not To Exceed Guaranteed Maximum Price.
- 27.19 **SCRUTINIZED COMPANIES:** Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), affirmed, *Odebrecht Construction, Inc., v. Secretary*, Florida Department of Transportation, 715 F.3d 1268 (11th Cir. 2013), with regard to the “Cuba Amendment,” the DESIGN/BUILD FIRM certifies that it is not on

the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), as may be amended or revised, and that it is not engaged in a boycott of Israel, and that it does not have business operations in Cuba or Syria, as provided in section 287.135, Florida Statutes (2019), as may be amended or revised. The City may terminate this Agreement at the City's option if the DESIGN/BUILD FIRM is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2019), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2019), as may be amended or revised, or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2019), as may be amended or revised.

27.20 **PUBLIC RECORDS:**

IF THE DESIGN/BUILD FIRM HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE DESIGN/BUILD FIRM'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY CLERK'S OFFICE, 100 N. ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA, 33301, EMAIL: dsoloman@fortlauderdale.gov, PHONE: 954-828- 5002.

DESIGN/BUILD FIRM shall:

1. Keep and maintain public records required by the City in order to perform the service. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2018), as may be amended or revised, or as otherwise provided by law.
2. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this contract if the DESIGN/BUILD FIRM does not transfer the records to the City.
3. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the DESIGN/BUILD FIRM or keep and maintain public records required by the City to perform the service. If the DESIGN/BUILD FIRM transfers all public records to the City upon completion of this Contract, the DESIGN/BUILD FIRM shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the DESIGN/BUILD FIRM keeps and maintains public records upon completion of this Contract, the

DESIGN/BUILD FIRM shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

4. If the DESIGN/BUILD FIRM keeps and maintains public records upon completion of this Contract, the DESIGN/BUILD FIRM shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the CITY.

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IN WITNESS OF THE FOREGOING, the Parties have set their hands and seals the day and year first written above.

CITY

ATTEST:

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

JEFFREY A. MODARELLI
City Clerk

By _____
CHRISTOPHER J. LAGERBLOOM,
City Manager

Approved as to form:

By _____
RHONDA MONTOYA HASAN
Assistant City Attorney

DESIGN/BUILD FIRM

_____ a Florida Corporation

WITNESSES:

(Witness print name)

(Witness print name)

By _____
_____, President

ATTEST:

By _____
_____, Secretary

(CORPORATE SEAL)

STATE OF: _____

COUNTY OF _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 2020, by David Mancini Jr., as President of David Mancini & Sons, Inc., a Florida corporation in the State of Florida.

(SEAL)

(Signature of Notary Public-State of _____)_____
Print, Type or Stamp Commissioned Name of
Notary Public)

Personally Known _____ OR Produced Identification _____
Type of Identification Produced _____

APPENDICES

- 1) APPENDIX A – PROPOSAL RESPONSE
- 2) APPENDIX B – SOLICITATION
- 3) APPENDIX C – BOND & INSURANCES

PROJECT NO. 12567

CITY OF FORT LAUDERDALE
PUMP STATION B-4 REDUNDANT FORCE MAIN
DESIGN CRITERIA PACKAGE

CITY PROJECT NO. 12567
November 2020

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EXHIBIT A

DESIGN CRITERIA PACKAGE

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

PROJECT NO. 12567

**EXHIBIT A
DESIGN CRITERIA PACKAGE****PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567****I. PROJECT OBJECTIVE**

The City of Fort Lauderdale (CITY) entered into Consent Order (CO) Number 16-1487 (First Order) with the Florida Department of Environmental Protection (FDEP) Office of the General Council on September 29, 2017. On October 12, 2020, an Amended CO was entered into between the FDEP and CITY to reach settlement of certain matters at issue between the FDEP and CITY. The Amended CO supersedes and replaces the First Order. The Amended CO identified various projects along with completion deadlines required to improve sanitary service within the CITY.

A force main condition assessment was performed as part of Paragraph 6(h) of the Amended CO, and it recommended five projects to be added to Phase II of the Amended CO. One of these projects included a redundant force main to the existing 42-inch force main from Repump Station B to Sunrise Boulevard. This project is currently in construction.

Pump Station B-4, located in George English Park near Sunrise Boulevard and Bayview Drive, is currently connected to the existing 42-inch force main, but is not connected to the new redundant force main being constructed as part of the Amended CO required project. The new redundant force main project is providing a connection point for a new force main from Pump Station B-4 near the intersection of Bayview Drive and NE 21st Street. The CITY has elected to move forward with the installation of a new force main from Pump Station B-4 to the connection point near Bayview Drive and NE 21st Street via a design-build project delivery approach. This force main will also connect to Pump Station B-5, located on Bayview Drive between NE 17th and NE 18th Streets.

The CITY has issued this Request for Proposal (RFP) to solicit competitive proposals from a Design Build Firm (DBF) for the design, permitting, and construction of Pump Station B-4 Redundant Force Main (Project). The Project includes the design, permitting, construction, testing, and startup of:

1. One new 24-inch nominal internal diameter force main along Bayview Drive utilizing high-density polyethylene pipe installed by horizontal directional drilling (HDD) and ductile iron pipe for connections via open-cut installation as required.
2. Connect proposed piping on the southern end to the discharge piping of Pump Station B-4.
3. Connect proposed pipeline to the discharge piping of Pump Station B-5.
4. Connect proposed piping to the 24-inch stub out near NE 21st Street and Bayview Drive.
5. Restore work area including City park area damaged by work as required.
6. Relocate water main and reconnect services in conflict as required.

Included in the scope of work are design, permitting and construction, construction management services, as well as inspection, construction certification and all associated work delineated herein or determined by the DBF as required to meet the Project intent. The RFP Documents, including the Design Criteria Package (DCP), Technical Specifications, all exhibits and attachments, and the successful proposal, shall form the terms and conditions of the Contract.

PROJECT NO. 12567

The DBF shall be responsible for design, surveying, geotechnical exploration, preparation of completed permit submittal packages and procurement of all required permits for construction, construction phasing, maintenance of traffic and all other related work or services.

This Design Criteria Package sets forth minimum requirements regarding design, construction, and maintenance of traffic during construction, including requirements relative to project management, scheduling and coordination with other agencies and entities such as the state, county and local government environmental permitting agencies and the public.

Project Background

Exhibit B includes technical specifications that describe the material quality standards and performance criteria for this Project. Exhibit C includes conceptual layouts that illustrate the project intent. These conceptual layouts are provided to convey sufficient information to allow the Respondent to prepare a response to the CITY's RFP.

The installation of valves shall be included as necessary to allow for isolation from service pressure. The overall length of the force main, connections with existing utilities, and the exact tie-in locations shall be determined as part of the scope of this design-build project. The selected DBF will be required to retain full responsibility for design, permitting, and construction of all aspects of the project. The DBF shall develop a detailed project design based on the criteria set forth in this document and construct the work in accordance with the requirements set forth in this document and applicable permits procured for the project by the DBF.

DBF Procurement

CITY will procure the services of a DBF to implement the scope of work described herein. CITY will solicit proposals and establish selection criteria in accordance with Florida Statutes and the City of Fort Lauderdale Procurement Manual to procure the services of a qualified DBF.

II. PROJECT REQUIREMENTS

The DBF shall demonstrate good project management practices while working on this Project. These include communication with the (CITY) and others as necessary, management of time and resources, and documentation. The CITY will provide contract administration and technical reviews of all work associated with this Project.

Design and Construction Criteria

The DBF shall provide a complete and thorough technical approach to conducting a design-build pipeline installation operation. The technical proposal should demonstrate a complete understanding of the Project and CITY objectives as well as include how the DBF intends to address the following items:

1. Completion of preliminary design information including topographic survey, geotechnical information and subsurface utility exploration.
2. Completion of engineering design plans for construction.
3. The procurement of all permits required for construction and the placement of the pipelines in service from local, state and federal agencies, including but not limited to, the Florida Department of Transportation, Florida Department of Environmental Protections, the South Florida Water Management District, Broward County Traffic Engineering Division, Broward County Highway

PROJECT NO. 12567

Construction Engineering Division, Broward County Environmental Protection and Growth Management Department, and the City of Fort Lauderdale. The DBF shall develop strategies, identify primary issues, possible testing requirements and timing.

4. Construction in heavily trafficked areas
5. Appropriate Quality Control/Quality Assurance procedures
6. The development of final record drawings

Detailed Description

The technical proposal should demonstrate an understanding of the following design issues:

1. Horizontal directional drilling for pipe installation
2. Open cut excavation and backfill for pipe installation
3. Connection of new pipe to existing, in-service utilities
4. Maintenance of traffic
5. Maintenance of pump station operation during construction
6. Adjustment of existing utilities

Governing Regulations

The services provided by the DBF shall be in compliance with all applicable City of Fort Lauderdale, OSHA Guidelines, South Florida Water Management District Manuals and Guidelines, as well as State of Florida Department of Environmental Protection, and Broward County Environmental Protection and Growth Management Department regulations and guidelines except as explicitly noted within this document. In general, the most recent editions of the following documents shall be utilized for this Project:

1. South Florida Water Management District Volume V – Permit Information Manual, Criteria Manual for the Use of Works by the District
2. Broward County Environmental Protection Department – A Consulting Engineer’s Guide for a Wastewater Collection/Transmission System Construction License Application
3. OSHA Regulations for Construction – Title 29, Part 1926, Construction Safety and Health Regulations, Code of Federal Regulations (OSHA)
4. OSHA Standards – Title 29, Part 1910, Occupational Safety and Health Standards, Code of Federal Regulations (OSHA).
5. Florida Building Code
6. Federal Highway Administration – Manual on Uniform Traffic Control Devices

III. SERVICES AND MATERIALS PROVIDED BY THE CITY

The CITY has retained the services of a Design Criteria Professional to provide services during design and to provide construction administration services. The Design Criteria Professional will provide the services set forth below:

1. Design review services

PROJECT NO. 12567

2. Provide clarifications of the DCP and respond to DCP related Response for Information
3. Construction Project Administrator
4. Submittals and shop drawing review
5. Construction observation and inspections for CITY

IV. EXISTING UNDERGROUND UTILITY INFORMATION

Limited information on existing underground utilities within the vicinity of the project area is available. Available Sunshine Design Ticket information are included in Exhibit D.

V. PERMIT REQUIREMENTS

It shall be the DBF's responsibility to secure all permits required to initiate and complete the work under this contract. The DBF shall adhere to all requirements of the applicable permits before, during, and after construction.

VI. CITY CADD STANDARDS and STANDARD DETAILS

All design drawings prepared under this project shall comply with the latest CITY document titled "City of Fort Lauderdale Public Works Engineering & Architectural Department CADD Specifications for Project Drawings" (hereinafter CADD Standards) in effect at the time of contract execution. A copy of the CITY CADD Standards is included in Exhibit E.

All design drawings shall also comply with the CITY Standard Details provided in Exhibit J.

VII. AMENDED CONSENT ORDER

This project is identified as part of Amended Consent Order (CO) Number 16-1487. On October 12, 2020, an Amended CO was entered into between the FDEP and CITY to reach settlement of certain matters at issue between the FDEP and CITY. As such, completion deadlines and associated penalties for failure to meet these completion deadlines apply to the work of this project. A copy of the Amended Consent Order is included in Exhibit F.

VIII. RECORD DRAWINGS

Existing record drawing information is provided in Exhibit G and H for informational purposes only. The City makes no guarantees, either expressed or implied, as to their accuracy and completeness.

IX. PROVISIONS FOR UTILITIES, STAGING AND PARKING

The DBF shall pay for all utilities needed for the performance of the Project. DBF shall be responsible for coordinating with the CITY for parking and staging arrangements within CITY properties and ensure that the area remains free of garbage, trash, and litter.

X. PROJECT MEETINGS

The CITY shall require meetings throughout the Project which require the participation of the CITY, selected DBF, all subcontractors, all subconsultants, representatives of governmental agencies with

PROJECT NO. 12567

jurisdiction in the Project area, and any others as requested by the CITY and/or DBF. All meetings shall be held at a central site that is convenient to all parties.

Following the written Notice to Proceed, the DBF shall coordinate with the CITY to hold a preconstruction meeting. All following meetings shall likewise be organized by the DBF upon instruction from the CITY.

XI. CONSTRUCTION DURATION

The selected DBF is expected to complete the Project as expeditiously as possible. At minimum, the selected DBF must adhere to the following schedule as set by the CITY:

| MILESTONE | CALENDAR DAYS FROM NOTICE TO PROCEED |
|---------------------------------------|---|
| Substantial Completion of the Project | 180 |
| Final Completion of the Project | 210 |

Failure to meet milestones on the above schedule will result in liquidated damages to be paid by the selected DBF as described in the CITY's general conditions.

The selected DBF is responsible for obtaining all permits needed for the Project. The procurement of permits is critical for the completion of the Project and needs to be in consideration of the selected DBF.

EXHIBIT B

TECHNICAL SPECIFICATIONS

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

PROJECT NO. 12567

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PROJECT NO. 12567**1.0 Project Description**

The CITY has issued this Request for Proposal (RFP) to solicit competitive proposals from a Design Build Firm (DBF) for the design, permitting, and construction of Pump Station B-4 Redundant Force Main (Project). The Project includes the design, permitting, construction, testing, and startup of:

1. One new 24-inch nominal internal diameter force main along Bayview Drive utilizing high-density polyethylene pipe installed by horizontal directional drilling (HDD) and ductile iron pipe for connections via open-cut installation as required.
2. Connect proposed piping on the southern end to the discharge piping of Pump Station B-4.
3. Connect proposed pipeline to the discharge piping of Pump Station B-5.
4. Connect proposed piping to the 24-inch stub out near NE 21st Street and Bayview Drive.
5. Restore work area including City park area damaged by work as required.
6. Relocate water main and reconnect services in conflict as required.

The installation of valves on connections to existing and proposed pipelines shall be included as necessary to allow for their isolation from service pressure. The pipeline shall be installed via horizontal directional drilling (HDD). Connections to the existing wastewater force main system and wastewater pump stations shall be conducted via open-cut method. The overall length of the crossings and exact tie-in locations will be determined as part of the scope of this Design-build project. Full lane restoration (milling and resurfacing) is required for disturbed areas of work in right of way.

The DBF will be required to retain full responsibility for design, permitting, testing and construction of all aspects of the project. The DBF will develop a detailed project design based on the criteria set forth in the contract documents. In addition, the DBF will construct the work in accordance with the requirements set forth in this document and all applicable permits procured for the project by the DBF.

The CITY has retained the Design Criteria Professional (DCP) to provide services during design and to provide construction administration services. The DCP will provide a Construction Project Administrator during the course of the project construction activities. All submittals (design and construction) will be through the DCP. All instructions to the DBF will be issued through the DCP.

2.0 Site Investigation

The DBF, by virtue of executing the Agreement, acknowledges that it has satisfied itself to the nature and location of the work, the general and local conditions including, but not restricted to: those bearing upon transportation; disposal, handling and storage of materials; access to the site; the confirmation and conditions of the work area; and the character of equipment and facilities needed preliminary to and during the performance of the work. Failure on the part of the DBF to completely or properly evaluate the site conditions shall not be grounds for additional compensation.

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2.1 Responsibility for Geotechnical Investigation

The DBF team shall retain a geotechnical engineer to conduct a geotechnical study that includes soil boring information needed to properly design and install the force main. A geotechnical report prepared by a State of Florida licensed Professional Engineer shall be submitted to the CITY. The DBF shall accept full responsibility for any interpretation, deductions, conclusion, and recommendations made or implied from the information obtained from the geotechnical report.

2.2 Topographic Survey

A topographic survey of the general pipeline corridors shall be performed by a licensed State of Florida surveyor retained by the DBF. An electronic AutoCAD file for the signed and sealed survey shall be provided to the CITY.

Surveys shall comply with the latest "City of Fort Lauderdale Public Works Engineering & Architectural Department CADD Specifications for Project Drawings (hereinafter CADD Standards)" in effect at the time of contract execution. A copy of the CITY CADD Standards is included in Exhibit E. Surveys shall include all existing underground utility information within the right-of-way.

3.0 Environmental Management Plan

The DBF shall ensure all statutory environmental requirements are met. The DBF assumes full responsibility for meeting environmental regulations and conditions of all applicable permits. The DBF shall develop an Environmental Management Plan prior to commencing construction. This Environmental Management Plan shall detail, at a minimum, the DBF's work methods for handling the following items:

- Temporary environmental controls,
- Slurry and cuttings disposal (if HDD option is implemented),
- Drilling fluids (if HDD option is implemented),
- Dewatering,
- Stormwater pollution prevention, and
- Environmental incident response.

The Environmental Management Plan shall incorporate the environmental regulations and conditions of all applicable permits.

3.1 Temporary Environmental Controls

The DBF shall carry out effective measures wherever and as often as necessary to prevent its operation from producing dust in amounts damaging to property, cultivated vegetation, or domestic animals, or causing a nuisance to persons living in or occupying buildings in the vicinity.

During the progress of the work, the DBF shall keep the site and other areas used by it in a neat and clean condition, and free from any accumulation of rubbish. Rubbish and waste materials shall be collected and disposed of off-site in accordance with the local codes and ordinances governing locations and methods of

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disposal, and in conformance with all applicable safety laws, and to the particular requirements of Part 1926 of the OSHA Standards for Construction.

Fixed or portable chemical toilets shall be provided wherever needed for the use of employees. Toilets shall conform to the requirements of Part 1926 of the OSHA Standards for Construction.

All chemicals used during project construction or furnished for project operation shall show approval of either the U.S. Environmental Protection Agency or the U.S. Department of Agriculture. The handling, storage, use and disposal of all such chemicals and disposal of residues shall be in strict accordance with all applicable rules and regulations of Federal, State and local jurisdictional agencies and the printed instructions of the manufacturer and all regulatory requirements.

Noise resulting from the DBF's work shall not exceed the noise levels and other requirements stated in the City of Fort Lauderdale's Noise Ordinance. The DBF shall be responsible for curtailing noise resulting from its operation. A copy of the Noise Ordinance is found in Exhibit I.

3.2 Slurry and Cuttings Disposal (Contaminated and/or Non-contaminated)

Cuttings (contaminated and/or non-contaminated) shall be disposed of properly and shall comply with all applicable requirements of the appropriate regulatory agencies. The DBF shall perform preliminary investigations of sufficient detail to determine if soil along the proposed pipeline corridors could potentially be classified as contaminated.

3.3 Drilling Fluids

Drilling fluids to be used shall be environmentally sound and biodegradable. Spent drilling fluids shall be disposed of properly and shall comply with all applicable requirements of the appropriate regulatory agencies. The DBF shall be responsible for obtaining any permits required for disposal of these fluids.

3.4 Dewatering

The DBF shall submit as part of the Environmental Management Plan its proposed methods of handling trench water and the locations at which the water will be disposed. The DBF shall provide pumps and other appurtenant equipment necessary to remove and maintain water at such a level as to permit construction in a dry condition. The DBF shall continue dewatering operations until backfilling has progressed to a sufficient depth over the pipe or structure to prevent flotation or movement of the pipe or structure in the trench or so that it is above the water table.

Water from trenches, excavation and drilling operations shall be disposed of in such a manner as will not cause injury to public health, to public or private property, to the work completed or in progress, to the surface of the streets, cause any interference with the use of the same by the public, or cause pollution of any waterway or stream. Disposal to any surface water body will require silt screens to prevent any degradation in the water body. The DBF shall have full responsibility for acquiring all necessary permits for disposal.

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3.5 Stormwater Pollution Prevention

The DBF shall comply with the National Pollutant Discharge Elimination System (NPDES) requirements. The DBF shall develop and implement a Stormwater Pollution Prevention Plan as outlined by NPDES.

3.6 Environmental Incident Reporting

In the event of any environmental incident, the DBF shall respond in an expeditious manner and notify the proper authorities. The appropriate environmental regulatory agency shall also be notified as soon as possible.

4.0 Compliance with Codes and Technical Requirements

All work specified in this document shall conform to or exceed the requirements of all applicable codes and specified technical requirements. The DBF shall construct the work specified in accordance with the requirements of this document and the referenced portions of those referenced codes, standards and technical requirements listed herein. In case of conflict between codes, reference standards and technical requirements, the most stringent requirements shall govern. All conflicts shall be brought to the attention of the DCP and approved by the DCP prior to ordering or providing any materials or labor.

All references made to published specifications, codes, standards or other requirements shall mean the latest specifications, standards, or requirements of the respective issuing agencies which have been published as of the date of the opening of the bids. In case of conflict between codes, reference standards, or other applicable documents, the most stringent requirements shall govern.

5.0 Responsibility for Utility Location and Connections

Limited information on existing underground utilities within the vicinity of the project area is available. and is provided in Exhibit D. The DBF shall perform utility locations investigation to determine the exact locations and depths of all utilities that may interfere with the work.

The DBF shall conduct utility investigations in order to fully inform themselves of the character, condition and extent of all such utilities that may be encountered, and that may affect the design and construction operations. The DBF shall make all appropriate contacts and negotiations as required with local utility companies that may be affected by the proposed work. All existing utilities in the vicinity of the proposed pipeline corridor routing shall be shown on the design drawings developed by the DBF.

The DBF shall perform utility verifications and shall excavate to verify tie-in points for connections to existing systems. All connections shall be performed in such a manner that no damage and minimal interruption is caused to the existing facilities. Before commencing work involving the removal or placement in operation of existing or new facilities or tie-ins to existing facilities, the DBF shall notify the CITY in writing at least three days in advance. Connections to existing services or utilities, shutdowns and startups shall be planned in detail with appropriate scheduling of work and coordination with the CITY. All shutdowns and startups are weather dependent, and may be cancelled by the CITY with little to no warning based on inclement weather.

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6.0 Permit Requirements

It shall be the DBF's responsibility to secure all permits required to initiate and complete the work under this contract. The DBF shall adhere to all requirements of the applicable permits before, during and after construction. Two copies of all permit applications, including supporting documentation, shall be provided to the DCP. Four copies of approved permits, issued by the approving agency, shall be provided to the DCP. These permits may include, but are not limited to the following:

- City of Fort Lauderdale
- South Florida Water Management District
- Florida Department of Environmental Protection (FDEP)
- Broward County Environmental Protection and Growth Management Department
- Florida Department of Transportation
- Broward County Traffic Engineering Division
- Other Permitting Agencies

The DBF shall have responsibility for acquiring and adhering to the requirements of any other permit required to complete the work for this project. The following list should be considered only as a preliminary guideline:

- All necessary permits required for traffic control and Maintenance of Traffic plans;
- All necessary permits for disposal of excavated material from open cut pipe installations;
- All necessary permits for disposal of excavated material from horizontal directional drilling works, including spent drilling fluids and soil from excavation of launch/receiving sites (HDD option); and
- All necessary permits for disposal of water from any dewatering operations required.

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7.0 Submittal Requirements

All submittals shall be directed to the DCP in electronic format. Submittals in electronic format shall be uploaded to a file management system through the web based Procore program. An account will be provided by the DCP at the beginning of the project.

A general summary of the types of submittals is noted below.

Type of Submittal

Geotechnical Report – signed and sealed

Underground Utility Survey – signed and sealed

Draft Design Submittal (drawings inclusive of plan and profile sheets and specifications) – approved by DBF

Final Design Submittal – signed and sealed by Engineer-of-Record and approved by DBF

All Permit Application Packages for Applicable Regulatory Agencies

All Approved Permits from Applicable Regulatory Agencies

Environmental Management Plan

Health and Safety Plan

Initial Schedule and Monthly Progress Schedules

Schedule of Payment Items

Progress Payment Requests

Shop Drawings – Approved by Engineer-of-Record and DBF

Daily Construction Inspection Reports

Certificates of Compliance

Warranties

Maintenance of Traffic (MOT) Plan

Preconstruction Video

All Hydrostatic Test Results

Drilling Log Information

Record Drawing Information for Review

Record Drawings – electronic copy in AutoCAD format

Record Drawings – signed and sealed prints

Approvals from Regulatory Agencies to Place Facilities Into Service

Original releases from all parties entitled to claims against project

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Bacteriological test results (if over 100 ft of water main has to be relocated)

All drawings submitted to the CITY shall be developed electronically in AutoCAD in accordance with the City's CADD Standard. Drawings shall include both plan and profiles of the proposed pipeline routing. Design documentation shall include such things as technical specifications, technical data sheets and vendor supplied drawings. Only final hard copy signed and sealed drawings shall be submitted.

Within seven days after the award of the Contract, the DBF shall prepare and submit copies of its proposed schedule to the DCP for review and comments. If so required, the schedule shall be revised until it is approved by the DCP. The schedule shall be updated monthly and submitted prior to the application for monthly progress payments not later than the fifth day of the month. Failure to provide monthly schedule updates will be grounds for the DCP or CITY to withhold progress payment approval. The schedule shall be prepared in the form of a horizontal bar chart showing in detail the proposed sequence of the work and identifying construction activities for the pipeline and for each portion of the work. The schedule shall be time scaled, identifying the first day of each week, with the estimated date of starting and completion of each stage of the work in order to complete the project within the Contract time. The schedule shall show duration (number of days) and float for each activity. Updated schedule shall show all changes since the previous submittal. All revisions to the schedule must have prior approval of the DCP.

The DBF shall submit a Schedule of Payment Items for review within two weeks after receiving the Notice to Proceed. The schedule shall contain the major design milestones as well as the installed value of the component parts of work for the purpose of making progress payments during the design and construction period. Progress payment requests shall be made in accordance with CITY standards. Payment requests submitted without such documentation will not be processed.

Copies of all shop drawings and submittals, approved by the Engineer-of-Record and the DBF, shall be submitted to the DCP. The DBF must note any exceptions to or deviations from the Contract requirements and cross out any inapplicable information in each shop drawing. Where manufacturer's publications in the form of catalogs, brochures, illustrations or other data sheets are submitted, such submittals shall specifically indicate the item for which approval is requested. Submittals showing only general information are not acceptable.

The DBF shall submit daily construction inspection reports with photographs to the DCP from the date that the DBF commences mobilization on site to the date that the DBF achieves final completion for the project. Reports shall be submitted weekly, on Mondays immediately following the end of the previous week.

Where warranties are called for, a sample of the warranty shall be submitted with the approved shop drawings. The sample warranty shall be the same form that will be used for the actual warranty. Actual warranties shall be originals and notarized.

Copies of certificates of compliance and test reports shall be submitted for requested items prior to request for payment.

Prior to commencing work, the DBF shall have a continuous color audio-video digital recording taken of the entire Project, including adjacent work areas and all other areas that will be disturbed by the DBF's operations, to serve as a record of preconstruction conditions. No construction shall begin prior to review and acceptance of the digital recording covering the respective, affected construction area by the DCP. The

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DCP shall have the authority to reject all or any portion of the recording not conforming to the specifications and order that it be redone at no additional charge. The DBF shall reschedule unacceptable coverage within five days after being notified. The DCP shall designate those areas, if any, to be omitted from or added to the audio-video coverage. Recordings shall not be performed more than ninety days prior to construction in any area. All digital files and written records shall become property of the CITY.

The DBF shall keep all drilling logs containing dates, times and locations, soil conditions, drilling data such as depth, angle and rate of penetration, and utility crossings. Computer data sheets from steering tools and tracking systems shall also be kept. The DBF shall, within thirty (30) calendar days of the date of final completion, submit these records to the DCP.

The DBF shall submit record drawing information to the DCP for review prior to the preparation of final record drawings. This preliminary submittal shall be submitted to the DCP within thirty (30) calendar days of the date of substantial completion. Upon receipt of review comments from the DCP, the DBF shall commence preparation of final Record Drawings.

The DBF shall, within thirty (30) calendar days of the receipt of review comments from the DCP, prepare Record Drawings showing those changes made during the construction process. Record Drawings shall be plotted on 24-inch by 36-inch paper. Record Drawings shall contain the following information, where available:

- Plan views showing:
 - horizontal alignment details of the horizontal directional drill and open cut installation
 - all horizontal curve data, including point of curvature (PC) and point of tangency (PT) stations or radial bearing
 - all coordinates shall be in Florida State Plane Coordinates North American Datum of 1983 (NAD83)
 - top of pipe elevations every 100 feet
 - location and elevations of all fittings including bends, tees, sleeves, valves, air release valves, etc.
- Vertical profiles showing:
 - all vertical curve data, including point of curvature (PC) and point of tangency (PT) stations or radial bearing
 - All elevations shall be in North American Vertical Datum of 1988 (NAVD88) with 2011 adjustments
 - top of pipe elevations every 100 feet
- the diameter and type of pipe and pipe joints used in carrier pipes,
- the diameter and type of pipe and pipe joints used in casing pipes (if the DBF determines that casing pipe is required),
- final reamed size of the boreholes,
- extent and type of grouting, and

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- pipe spacer/centralizer arrangements.

8.0 General Requirements

8.1 Summary of Work

The work to be performed under this Contract shall consist of furnishing all tools, equipment, materials, supplies, and manufactured articles, for furnishing all transportation and services, including fuel, power, water, and essential communications, and for the performance of all labor, work, or other operations required for the fulfillment of the Contract in strict accordance with the Contract Documents. The work shall be complete, and all work, materials, and services not expressly shown or called for in the Contract Documents which may be necessary for the complete and proper construction of the work, in good faith shall be performed, furnished and installed by the DBF as though originally so specified at no increase in cost to the CITY.

The work comprises the design, permitting, construction, startup and testing of the force main from Pump Station B to the connection at NE 21st Street and Bayview Drive using horizontal directional drilling (HDD) through a Design-build contract approach. The components of the proposed work are the design, permitting, construction, startup and testing of:

1. One new 24-inch nominal internal diameter force main along Bayview Drive utilizing high-density polyethylene pipe installed by horizontal directional drilling (HDD) and ductile iron pipe for connections via open-cut installation as required.
2. Connect proposed piping on the southern end to the 16-inch discharge piping of Pump Station B-4.
3. Connect proposed pipeline to the discharge piping of Pump Station B-5.
4. Connect proposed piping to the 24-inch stub out near NE 21st Street and Bayview Drive.
5. Restore work area including City park area damaged by work as required.
6. Relocate utilities and reconnect services in conflict as required.

The installation of valves on connections to existing and proposed pipelines shall be included as necessary to allow for their isolation from service pressure. The primary method of pipeline installation along Bayview Drive is horizontal directional drill. Connections to the existing wastewater force main system and wastewater pump stations shall be conducted via open-cut method. Two lane restoration (milling and resurfacing) is required for all work in the right of way.

Maintenance of existing operations is mandated throughout the construction period. Pump Station B-4 can be shut down for a maximum of 4 hours to allow for the tie-in connection.

All materials and workmanship supplied for this project shall be of first-class quality.

During construction, the DBF is expected to work regular hours between 8:00 A.M. to 7:00 P.M. Monday through Saturday. Requests to work during other than these hours must be submitted to the DCP and the City Project Manager with the following information:

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- Cover page with Contractor name, project name, and location
- Description of work to be performed outside of normal work hours
- Site plan and location map
- Legal description
- Justification for work and why extended work hours are being requested
- Commencement date and duration of work
- List of DBF contacts, including those on site
- Details on type of equipment to be used during extended work hours
- Details on noise levels that may be produced by range of decibels, including current ambient levels at site and levels predicted from proposed construction impacts
- Details on vibratory control measures to be implemented
- Details on how neighbors in vicinity of work area will be notified
- Details on how complaints will be resolved and/or mitigated
- MOT plans approved by City Transportation and Mobility Department (TAM) and any other agencies (if applicable)

If no lane closure or traffic impacts are necessary, the request must be submitted seven (7) business days in advance of scheduled work. If the work requires lane closures, request should be submitted at least ten (10) business days in advance along with MOT plans approved by City Transportation and Mobility Department (TAM) and any other agencies if necessary to allow time for City Manager consideration and approval, City MOT permit issuance, and notification to the public.

Requests shall be reviewed by the City Manager's Office. The DBF will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the City Manager's written consent at least seventy-two (72) hours in advance of the period proposed for such overtime work. Hours of work shall conform to the requirements of the CITY's Noise Ordinance.

Requests to work outside regular hours that require a special exemption from the provisions of Section 17-7.4 shall follow the City's Department of Sustainable Development's process for "Requesting Exemption from the Noise Ordinance", located at <https://www.fortlauderdale.gov/departments/sustainable-development/building-services/building-permit-general-info>. The DBF will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday (designated by the City of Fort Lauderdale) without the approval from the City Manager or City Commission approval at least seventy-two (72) hours in advance of starting such work.

In addition, the DBF shall coordinate all work hours and activities with Bayview Elementary School. Any request for work hours outside of the regular work hours defined about or any work activity near the school shall be approved by the school prior to obtaining approval from the CITY.

Prior to the commencement of work at the site, a preconstruction conference will be held at a mutually agreed time and place which shall be attended by the DBF, its superintendent, its subcontractors as well as representatives of the DCP, CITY, governmental representatives as appropriate, and others requested by the DBF, DCP, or CITY. Prior to the preconstruction conference, the DBF shall have submitted a progress schedule.

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The DCP will schedule and hold weekly progress meetings during construction. The CITY, DBF and all subcontractors active on the site shall be represented at each meeting.

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8.2 Temporary Utilities

The DBF shall be responsible for determining and providing the equipment and temporary utilities that are adequate for the performance of the work within the time specified. All items shall conform to the applicable requirements of OSHA Standards for Construction. These items may include, but are not limited to power, lighting, and water supply.

The DBF shall pay for all utilities (including power, lighting, water, sanitary facilities, etc.) needed for the performance of the Project. The DBF shall make arrangements for and pay all costs for all water used for construction and testing. The DBF shall provide and maintain all meters, piping, fittings, adapters and valves required.

To obtain potable water, the DBF shall install a CITY supplied meter and backflow preventer. The CITY will charge the DBF for potable water. The DBF shall make all necessary connections to existing piping and shall provide all necessary appurtenances at his own expense.

The DBF shall not make connection to, or draw water from, any fire hydrant or pipeline without first obtaining permission of the authority having jurisdiction over the use of said fire hydrant or pipeline and from the agency owning the affected water system. For each such connection made, the DBF shall first attach to the fire hydrant or pipeline a valve and a meter, if required by the said authority, of a size and type acceptable to said authority and agency.

8.3 Maintenance of Facilities and Sequence of Construction

All connections to existing systems shall be performed in such a manner that no damage and minimal interruption is caused to the existing facilities. Required shutdowns to the utility systems shall be identified in writing during design. The DBF shall give the CITY three business days' notice in writing before commencing work involving removing or placing in operation existing or new facilities or tie-ins to existing facilities for all planned for this Project. Connections to existing services or utilities, shutdowns and startups shall be planned in detail with appropriate scheduling of work and coordination with the CITY. The DBF shall obtain written approval from the appropriate permitting agencies and the CITY prior to placing the force main into service.

Final connections between existing and proposed pipelines shall be performed via short-term shutdown. A maximum of four (4) hours shall be allowed for a short-term shutdown. The start and stop time for performing short-term shutdowns shall be agreed to in writing with the CITY.

All connections between the existing and proposed piping shall be constructed in the presence of the DCP inspector.

8.4 Protection of Existing Facilities

The DBF shall protect all existing utilities and improvements not required for removal and shall restore damaged or temporarily relocated utilities and improvements to equal or better conditions than they were prior to such damage or temporary relocation.

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The DBF shall determine the exact locations and depths of all utilities that may interfere with the work. Utility location shall be performed in a manner sufficient to determine the alignment and grade of any potential conflicts. It is the responsibility of the DBF to make utility investigations in order to fully inform themselves of the character, condition and extent of all such utilities as may be encountered and as may affect the design and the construction operations at no additional cost to the CITY. The DBF shall make all appropriate contact and negotiations as required with local utility companies that may be affected by the proposed work.

The DBF shall protect all existing trees within the right-of-way and plan its work to avoid the removal of any trees. If the removal of a tree is required to complete the work, the DBF shall obtain the required permits from the CITY.

To prevent damage, injury, or loss, DBF's actions shall include the following:

- Storing apparatus, materials, supplies, and equipment in an orderly, safe manner that does not unduly interfere with progress of the Work or work of other contractors or utility companies.
- Providing suitable storage facilities for equipment and materials subject to damage or degradation by exposure to weather, theft, breakage, or other cause.
- Placing upon the Work or any part thereof only loads consistent with the safety and integrity of that portion of the Work and existing construction.
- Frequently removing and disposing of refuse, rubbish, scrap materials, and debris caused by DBF's operations so that, at all times, the Site is safe, orderly, and workmanlike in appearance.
- DBF has full responsibility for preserving public and private property and facilities on and adjacent to the Site. Direct or indirect damage done by, or on account of, any act, omission, neglect, or misconduct by DBF in executing the Work, shall be restored by DBF, at his expense to condition equal to that existing before damage was done.
- DBF shall comply with safety regulations required by the CITY or authorities having jurisdiction. DBF shall comply with and correct unsafe conditions created or caused by DBF's personnel. In the event DBF fails to comply, the CITY receives the right to take necessary measures to correct conditions or practices for reimbursement by DBF.

8.5 Site Access, Staging and Parking

Nothing herein shall be construed to entitle the DBF to the exclusive use of any public street, alleyway, parking area or easement during the performance of the work. The DBF shall conduct its operations so as to keep one lane of traffic open in both directions at all times. The DBF shall not interfere unnecessarily with the authorized work of utility companies or other agencies in such streets, alleys, ways, parking areas or easements. No lanes shall be closed to the public without first obtaining permission from the CITY and shall consider traffic peak hours and City events. Fire hydrants on or adjacent to the work shall be kept accessible to firefighting equipment at all times. Temporary provisions shall be made by the DBF to assure the use of sidewalks and the proper functioning of all gutters, sewer inlets, and other drainage facilities.

The DBF shall obtain permission from the CITY and relevant authority prior to using any right of way or easement for storage or operation of any construction equipment.

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If closure of any street is required during construction, a formal application for a street closure shall be made to the authority having jurisdiction at least thirty (30) days prior to the required street closure in order to determine necessary sign and detour requirements.

Responsibility for protection and safekeeping of equipment and materials at or near the project area will be solely that of the DBF and no claim shall be made against the CITY by reasons of any act of an employee or trespasser.

The DBF shall notify the fire and police departments prior to closing any street or portion thereof, and again when streets are passable for emergency vehicles. Emergency vehicle access to consecutive arterial crossings or dead-end streets in excess of 300 feet shall not be blocked without special written permission from the fire department.

8.6 Project Sign

The DBF shall furnish and install two project signs (with white painted posts) prior to commencement of construction. The sign shall be a minimum of 4' x 8' in size. The exact style and design of the sign will be provided by the CITY to the CONTRACTOR in PDF format during the design development stage of the project. The DBF shall submit a shop drawing for approval for the project sign. Shop drawing must be approved prior to fabrication.

8.7 Public Outreach and Notification

The DBF shall notify property owners and utility offices that may be affected by construction activities. All homes and businesses potentially impacted by construction shall be notified by use of a "door hanger" type announcement, describing at a minimum, the nature of the Work, the proposed schedule, and the DBF's contact information. Prior to exposing a utility, the DBF shall obtain utility owner's permission.

The selected DBF will be the primary entity responsible for public outreach for this project. The DBF will need to conduct outreach to educate neighbors about the project and keep them informed of the project status. The selected DBF will be required to coordinate its outreach activities with the City. The City's Office of Strategic Communications will use existing communication channels to supplement the DBF's outreach activities.

8.8 Traffic Control, Regulations and Maintenance of Traffic

The DBF shall obey all traffic laws and comply with all the requirements, rules and regulations of FDOT, the CITY and other local authorities having jurisdiction, to maintain adequate warning signs, lights, barriers, etc. for the protection of traffic on public roadways.

The DBF shall maintain and protect access, for vehicular and pedestrian traffic, to and from all properties and business establishments adjoining or adjacent to those streets affected by its operations. The DBF shall always maintain one lane of traffic open in both directions. Any lane closures shall be scheduled with CITY concurrence and shall consider traffic peak hours and CITY events.

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The DBF shall prepare and submit Maintenance of Traffic (MOT) Plans to CITY for approval. The MOT Plans shall comply with the requirements of CITY and any other regulatory agency that may have jurisdiction within the project area.

8.9 Equipment and Materials

All equipment, materials, instruments or devices incorporated in this project shall be new and unused. All handling, maintenance and storage of these items shall be in accordance with the manufacturer's recommendations.

8.10 Permits, Licenses, and Fee Allowance for Government Agencies

The allowance amount indicated for this item is to pay for all permits, licenses, and other fees required of the DBF from the various agencies having jurisdiction for design and construction of the project. The allowance shown on the Price Proposal Form is an estimate of fees required. Payment will be based on the actual permit, license, or fee paid directly to agency, documented by paid receipts, specifically excluding any labor, mark-up, overhead and profit, administration, or other costs involved in obtaining permits or licenses or paying fees. The DBF shall submit documentation with pay request verifying actual cost. Only fees substantiated by the DBF and approved by the DCP will be paid as part of this allowance. Fees specifically excluded from this allowance include but are not limited to re-inspection fees and expired permit fees. Any balance in this item at the end of the project shall be credited back to the City.

8.11 Other Conditions Allowance

The allowance amount indicated for this item is for time and money for labor, materials, equipment and services necessary for modification or extra work required to complete the Project because of unforeseeable conditions, and unforeseeable conflicts between existing elements of work and the proposed work. Included in this allowance is work associated with other conditions or conflicts developing from other conditions. All work authorized for payment will be authorized in writing by the CITY. Amount to be paid per other conditions or conflicts shall be negotiated or agreed to by both parties.

Measurement and payment for other conditions work will be based upon the furnishing, installing, and completing of the items and actual work required to address said other conditions. Prior to purchasing products for and performing other conditions work the DBF shall make the CITY and the DCP aware of the other conditions and provide a field plan and cost for the work to be performed for the City's and DCP's review prior to proceeding with the other conditions work. Payment for work shall only be made for the amount agreed upon for work the DCP deems acceptable.

8.12 Project Closeout

The DBF shall promptly remove from the vicinity of the completed work, all rubbish, unused materials, concrete forms, construction equipment, temporary structures and facilities, construction signs, tools, scaffolding, materials, supplies and equipment which may have been used in the performance of the Work.

Before final acceptance of the project, the DBF shall submit to the DCP the following items:

- Written test results of project components;
- Certificates of inspection and acceptance by governing agencies having jurisdiction;

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- Record drawings signed and sealed by the Engineer-of-Record;
- Documentation demonstrating compliance with the specific conditions of all permits; and
- Releases from all parties who are entitled to claims against the subject project.

Final inspection of the work will be done by the DCP and the Engineer-of-Record for the DBF upon notification from the DBF. Any work not found acceptable will be noted on a "Punch List". Punch List work must be completed by the DBF to the satisfaction of the DCP prior to processing the final payment.

The DBF shall restore damaged areas or temporarily relocated utilities and improvements to a condition equal to or better than prior to such damage or temporary relocation.

The DBF shall comply with all maintenance and guarantee requirements.

9.0 Piping

The proposed pipelines are anticipated to be installed through a combination of the following methods:

- Open cut excavation and backfill
- Horizontal directional drilling (HDD)

The primary method of installation shall be horizontal directional drill. Piping installed via HDD shall be high density polyethylene (HDPE) pressure pipe. Piping installed via open cut shall be restrained Ductile Iron Pipe meeting AWWA standard.

All connections to existing piping shall be coordinated with the CITY. Connections requiring the removal of existing piping from service shall be no longer than four (4) hours in duration in any 24-hour period unless bypass facilities are provided by the DBF.

9.1 HDPE for Force Main

HDPE pipe shall be high molecular weight. The resin material shall have a standard PE code designation of PE 4710. The pipe shall contain no recycled compound except that generated in the manufacturer's own plant from resin of the same specification from the same raw material pipe. The pipe shall be homogeneous throughout and free of visible cracks, bubbles, holes, foreign inclusions or other injurious defects. It shall be uniform in color, capacity, density, and other physical properties.

The pipe shall conform to either Iron Pipe Size (IPS) or Ductile Iron Pipe Size (DIPS) standard dimensions and the standard dimension ratio (DR) shall be DR 11. BIDS SHALL BE BASED ON DR 11. Based on the DBF's engineering analysis, the dimension ratio may be increased or decreased to facilitate proper HDD installation. If the DBF elects to increase the DR to a value greater than 11 (i.e., wall thickness is reduced) after award of the Contract, then the DBF shall obtain permission from the CITY and offer an appropriate reduction in contract price.

All joints for polyethylene piping shall be of the thermal butt fusion type or electrofusion type. All butt fusion or electrofusion fittings shall be PE4710 HDPE.

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All HDPE pipe shall be color coded for the intended service. The color coding shall be permanently coextruded on the pipe outside surface as part of the pipe's manufacturing process. Painting HDPE pipe to accomplish color coding is not permitted. Color coding shall be as follows:

- Sewer – green
- Water - blue

9.2 Ductile Iron Pipe

All DIP for this project shall meet the following requirements:

- Standard: Comply with AWWA C-151
- Pressure Class: 350
- Internal Lining:
 - Wastewater Piping: Shop-applied ceramic epoxy lining of Protecto 401
- Exterior coating: Shop-applied exterior asphaltic coating approximately 1 mil thick per AWWA C151
- Color Code:
 - Wastewater Piping: a continuous green line painted along the top of the pipe to indicate the pipe conveys sewage
- Fittings: Fittings shall be manufactured in accordance with AWWA C110
- Polyethylene Encasement: All ductile iron pipe shall be encased in polyethylene per AWWA C 105
- All joints shall be restrained
- Manufactured Proprietary Restrained Joints:
 - DIP shall be designed to use manufacturer restrained joints to the maximum extent practicable.
 - Restrained joint pipe and fittings shall be Flex-Ring or Lok-Ring type as manufactured by American Cast Iron Pipe, TR Flex as manufactured by U.S. Pipe, or equal.
- Restrained Mechanical Joint Fittings:
 - Series 1100 MEGALUG Mechanical Joint Restraint manufactured by EBAA Iron, Inc., or equal.
 - The restraint devices shall be coated using MEGA-BOND Coating System.
- Restraining System for Field Cut Piping:
 - Use only in areas where adjoining to fixed points where laying length is determined in field and requires field cutting of the pipe.
 - Series 1700 Megalug restraint harness, manufactured by EBAA Iron, Inc., or equal.
 - The restraint devices shall be coated using MEGA-BOND Coating System

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9.3 HDPE for Water Service

All 2-inch high density polyethylene pipe used for water services shall be IPS-OD with a DR of 9, pressure rating of 250 psi in conformance with materials Standard 4710. Pipe shall conform with ASI/AWWA C901. Pipes shall have a natural inner core with a blue colored outer shell. Polyethylene material shall have a minimum cell classification in accordance with ASTM D3350 of 445576D for the core and 445576E for the outer shell and shall conform with NSF 61. All service lines shall be wrapped with a #12 copper wire and attached to the corporation stop for continuity of signal.

9.4 Thrust Restraint Design

Thrust restraint design shall be based on the following criteria:

- Thrust restraint minimum design safety factor: 1.5
- Design pressure / Test pressure: 150 psi
- Thrust blocks shall not be allowed.
- Factory manufactured restrained joint pipe and fittings shall be designed wherever practicable in lieu of mechanical restraining devices.
- Mechanical restraining devices shall be Mega-lug as manufactured by EBAA Iron.

9.5 Hydrostatic Testing

All pipelines shall be hydrostatically tested. Prior to testing, all pipelines shall be flushed or blown out as appropriate. The pipelines can be tested in sections or as a unit. The pipeline shall be filled with potable water and shall be allowed to stand under a slight pressure for a period of at least 24 hours. For all horizontally directionally drilled pipelines, product pipelines shall be hydrostatically tested above ground prior to installation and shall be tested again after installation of the product (i.e., carrier) pipe in the final position within the borehole.

For ductile iron pipe, the hydrostatic test shall consist of holding the test pressure (150 psi) on the pipeline for a period of four hours. The maximum allowable leakage shall be determined by the following formula:

$$L = \frac{SD\sqrt{P}}{148,000}$$

Where: D = Pipe diameter in inches

S = Length of lines in linear feet

P = Average test pressure in psig

L = Allowable leakage for system in gallons per hour

For HDPE pipe, the test procedure is to follow ASTM F2164 which includes the initial expansion phase for four (4) hours followed by the lowering the pressure by 10 psi for the testing phase. The testing phase

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is for one hour, where the pressure shall remain steady (within 5%) to confirm passage of the test. If a pressure test on HDPE pipe is not completed, the test section shall be de-pressurized for repairs. De-pressurization shall last for a minimum of eight (8) hours.

All water required for hydrostatic testing shall be supplied to the DBF by the CITY via a CITY supplied meter and backflow preventer. The CITY will charge the DBF for potable water.

If the DBF determines that casing piping is required, it shall be included with its bid. Hydrostatic testing of casing pipe is not required unless specifically required by a permit condition.

10.0 Open Cut Excavation and Backfill

The DBF shall excavate, grade and backfill as required for site underground piping systems. All excavations shall meet applicable OSHA, local and Federal Code requirements. Trench excavation, where required, shall be done in accordance with the requirements of Florida Statute Section 553.60 *et. seq.* cited as the “Trench Safety Act”. The DBF shall furnish, place and maintain sheeting and bracing to support sides of the excavation as necessary to provide safe working conditions in accordance with OSHA requirements.

Clean, sandy excavated materials free from organics, clay and construction debris can be used as pipe bedding when construction is in a dry condition and when the bedding is not sided by muck. Pipe bedding shall be able to pass through a 3/4-inch sieve. Bedding for wet installations shall be pea rock conforming to the requirements of ASTM C 33, Size Number 8. Bedding for all precast concrete items shall be crushed stone, conforming to the requirements of ASTM C 33, Size Number 57.

All excavations shall be free from water before pipe or structures are installed. The DBF shall use dewatering systems as necessary to permit construction in a dry condition. The DBF shall have responsibility for acquiring all necessary permits for disposal.

Compaction of backfill shall be 98 percent of the maximum density where the trench is located under structures or paved areas, and 95 percent of the maximum density elsewhere. More thorough compaction may be required when work is performed in other regulatory agencies’ jurisdictions, such as the FDOT. Maximum density of material in trenches shall be determined by ASTM D 1557. Field density of the backfill material in place shall be determined by ASTM D 1556 or D 2922. The DBF shall be responsible for obtaining all density tests that may be required for the work.

10.1 Depth of Cover

Minimum depth of cover for underground piping systems in the uplands shall be 36-inches or greater as required by applicable regulatory agencies.

10.2 Tracer Identification Tape and Locator Wire

Pipelines installed by the open trench method shall be marked with metal tracer identification tapes located 18 inches above the pipe. For the force mains, tracer tape shall be safety green and imprinted with the words “CAUTION – PRESSURE SEWER MAIN BURIED BELOW”. The tape shall be three inches in width.

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All pipe shall have 14 strand color coded identification wire installed on top of the pipe. The wire shall be secured to the pipe once per pipe joint. The wire shall pass through a drilled hold near the top of valve boxes from the outside of the box to the inside of the box. The wire shall be attached to the valve box.

11.0 Horizontal Directional Drilling

The DBF shall ensure that the grades, tolerances and hydraulic characteristics are achievable using the proposed construction methods, such that the completed pipeline will perform its intended function in accordance with this document. The maximum number of butt fusion welds that will be allowed during the pullback operation is two (2) welds.

11.1 Piping

All pipe installed by HDD shall be high density polyethylene (HDPE) pressure pipe. The Engineer-of-Record for the DBF shall verify that the Standard Dimension Ratio specified is adequate for the DBF's proposed design. The DBF's Engineer shall consider pipe loads such as operational and installation loads, internal (operational) pressure loads, external (operational) hydraulic and earth loads, pipe resistance to external loads, axial bending stress, pulling force, axial tensile stress, torsional stress, combined loads during installation and combined loads during operation. The design and selection of the product piping shall be done in accordance with the requirements of ASTM F 1962 (Standard Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit Under Obstacles, Including River Crossings).

If the DBF determines that casing piping is required, it shall be included with its bid. The material for the casing pipe shall be HDPE, manufactured to the same specifications as the carrier piping. The diameter of the casing pipe shall be as determined by the DBF.

11.2 Drilling Fluids and Cuttings

The DBF shall use an appropriate drilling fluid to suit the ground conditions that may be encountered during the drilling, reaming and product pipe installation operations. Cuttings and spent drilling fluids shall be disposed of properly and shall comply with the requirements of all local regulatory agencies.

11.3 Guidance and Survey

The DBF's drilling method shall incorporate a survey system that will include tracking of the drill head and drill path for the entire length of the bore. The survey system shall be capable of measuring the elevation and gradient of the bore path.

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11.4 Tracer Identification Tape

HDD installed pipelines shall be marked with metal tracer identification tapes at all bore entry and exit points and at intermediate locations where possible that allow for "line of sight" identification. For force mains, tracer tape shall be safety green and imprinted with the words "CAUTION – PRESSURE SEWER MAIN BURIED BELOW". Tracer identification tapes shall be laid a minimum of six inches above the crown of the pipe and shall be attached to metal surface fittings to provide connection points for locating devices.

12.0 Valves**12.1 Tapping Valves and Sleeves**

Size-on-size taps will not be allowed on this project. For those taps less than 70% of the host pipe diameter, the rest of this section is applicable.

Tapping valves shall be resilient wedge type meeting AWWA C509 and shall be connected by a machined projection on the outlet flanges of the tapping sleeves and crosses. The outlet ends shall conform in mechanical joint connections, except that the outside of the valves shall be larger than normal size to permit full diameter cuts.

Tapping valves shall comply in all other respects to the gate valve requirement of these specifications. All tapping valves must have a cast-in-alignment ring. VALVES, TAPPING: - Resilient seat only, Manufacturers: Mueller, American Darling, AVK Series 45, or City Approved Equal.

All tapping sleeves shall have duck-tipped end gaskets, flanged outlet with American one hundred, twenty-five pounds (125 lbs.) standard template, mechanical joints in the main line, factory tested for 400 psi and with working pressure of two hundred (200) PSI, They shall be Ford Style FS1-SS, JCM Model 432 (4"-12"), Mueller, American Darling or A Series or CITY approved equal. Stainless steel full clamp style may be considered on a case by case basis per City approval.

12.2 Plug Valves

All plug valves for this project shall meet the following requirements:

- Plug valves shall be capable of handling raw wastewater.
- Plug valves shall be of the non-lubricated, eccentric seating plug type with synthetic rubber-faced plugs as manufactured by DeZurik Company, Val-Matic and Golden Anderson.
- Valve bodies and plugs shall be semi-steel conforming to the requirements of ASTM A126 Grade B, cast iron. Plugs shall be covered with neoprene for general service.
- Valve seats shall be corrosion resistant consisting of a welded-in overlay of 90 percent pure nickel machined to a finish containing no stress cracks.
- Valve bearings shall be replaceable type 316 series stainless steel for both the upper and lower journals.
- Packing shall be solid PTFE. The stuffing box shall be designed to allow the packing to be adjusted and replaced when the valve is in service.
- Gear actuators shall be totally enclosed worm gear type with permanently lubricated bronze

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bearings and shall be designed to handle the seating and unseating torque at the specified handwheel pull for applications with the maximum pressure differential in either direction.

- All valves shall be provided with limit stops and rotate 90° from fully-open to fully-shut.
- The minimum working pressure for all valves shall be 150 psi, and the test pressure shall be at least 270 psi for valves up through 12-inch and at least 230 psi for valves 14-inch and larger.
- The port area of valves shall be 100 percent of full pipe area for valves less than 24-inches and 70 percent for valves 24-inches and larger.
- The plug shall have a cylindrical seating surface eccentrically offset from the center of the shaft. Plug shall not contact the seat until at least 90% closed. Spherical shaped plugs are not acceptable (must be a rectangular port).
- All buried valves shall have mechanical joint ends (unless otherwise shown), conforming to ANSI A21.11 (AWWA C 111), and shall be operated with a standard AWWA 2-inch square nut through a totally enclosed worm gear actuator. Valve boxes shall be installed with all buried plug valves.
- Exposed shafting shall be 316 stainless steel.
- All internal and external ferrous components and surfaces of the valves, with the exception of stainless steel and finished or bearing surfaces, shall be shop painted with two coats (10 mils min. dry film thickness) of the manufacturer's premium epoxy for corrosion resistance. Damaged surfaces shall be repaired in accordance with the manufacturer's recommendations.
- All fasteners shall be Type 316 stainless steel.
- Approved equal manufacturers shall demonstrate a minimum of 10 years of successful experience in the manufacture of plug valves. When requested the manufacturer shall provide test certificates, dimensional drawings, parts list drawings and operation and maintenance manuals. The product must be supported for a minimum of 10 years after installation.

12.3 Automatic Air Release Valves

Automatic air release valves shall be installed where required to vent accumulating air while the system is in service and under pressure. The design of the valves shall be appropriate for the type of service (water or wastewater). Air release valves below grade shall be installed in precast concrete boxes in accordance with site requirements and CITY standards. Hardware and nipples shall be Type 316 Stainless Steel.

12.4 Valve Boxes

Valve boxes and covers for all size valves shall be of cast iron construction and adjustable screw-on type. The lid shall have cast in the metal the word "SEWER" for the sewer force main. All valve boxes shall be six-inch (6") nominal diameter and shall be suitable for depths of the particular valve. The stem of the buried valve shall be within twenty-four inches (24") of the finished grade unless otherwise approved by the DCP. Valve boxes shall be or Tyler Brand, or Equal. Cast iron valve box shall not rest directly upon the body of the valve or upon the pipe. The box shall be placed in proper alignment and to such an elevation that its top will be at the final grade. Back filling around both units shall be placed and compacted to the satisfaction of the DCP. Valve Boxes and Covers/Lids: - Manufacturer: Tyler Pipe/Union Foundry cast iron two-piece 5-1/4" shaft screw-type 6850 series, or Equal.

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13.0 Concrete

All materials for concrete work shall comply with the requirements of ACI 301. Materials for concrete shall conform to the following requirements:

- Cement shall be standard brand portland cement conforming to ASTM C 150, Type II.
- Water shall be potable and clean;
- Aggregates shall conform to the Florida Building Code and ASTM C 33.
- Ready mix concrete shall conform to the requirements of ASTM C 94.

Reinforcing steel shall conform to the following requirements:

- Bar reinforcement shall conform to the requirements of ASTM A615 for Grade 60 Billet Steel Reinforcement
- Welded wire fabric reinforcement shall conform with the requirements of ASTM A 185.

Structural concrete shall have a minimum 28-day compressive strength of 4,000 psi. For site work concrete (concrete for use as concrete fill, pavement, curbs and sidewalks), the minimum 28-day compressive strength shall be 3,000 psi.

14.0 Grout**14.1 Grout for HDD Applications**

If the borehole diameter exceeds the casing pipe outside diameter by more than two inches, the casing pipe shall be grouted within the drilled hole. The use of grout in other circumstances shall be at the discretion of the Engineer of Record for the DBF depending on the outcome of preliminary surface and subsurface studies, environmental considerations, the need to provide additional strength or mechanical protection of the pipe, or to increase the long term collapse resistance of the pipe.

The method employed to achieve the grouting shall ensure complete filling of the annulus and full encasement of the casing pipe so that full circle continuous support from the surrounding material is provided. The DBF shall ensure that the grouting process does not result in deformation of the casing pipe or dislodging of supports and movement of the casing pipe from its designed alignment. The DBF shall ensure that the net pressure on the pipe does not exceed the critical buckling pressure of the casing pipe divided by an appropriate factor of safety as selected by the Engineer of Record.

The grout composition shall be as designed by the Engineer of Record for the application. The design of the grout mixture shall consider the following:

- grout shall undergo minimal shrinkage
- grout shall be compatible with site conditions
- grout shall be environmentally sound
- grout composition shall have no adverse effect on the casing pipe
- placement of the grout mixture shall consider the desired set up time.

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14.2 Non-Shrink Grout

Non-shrink grout shall be used wherever grout is required, with the exception of HDD applications. Non-shrink grout shall be a prepackaged, inorganic, non-gas liberating, nonmetallic, cement based grout requiring only the addition of water. Non-shrink grout shall have a minimum 28 day compressive strength of 5000 psi; shall have no shrinkage and a maximum 4.0 percent expansion in the plastic state when tested in accordance with ASTM C 827.

15.0 Painting

All exposed piping valves and ferrous metals shall be painted with not less than one shop coat and two field coats. Items to be painted included, but are not limited to, structural steel, miscellaneous metals, pipe, fittings, valves and all other work which is obviously required to be painted unless specified otherwise. The following items shall not be coated unless otherwise noted:

- Stainless steel work
- Finish hardware
- Signs and nameplates
- Concrete

Surface preparation shall be in accordance with Specifications of the paint manufacturer's recommendations and the Society of Protective Coatings (SSPC). Metal surfaces exposed to the atmosphere shall be painted as described below:

- First Coat – Epoxy primer
- Second Coat – Hi-Build epoxy
- Third Coat – Hi-Build Epoxy

All colors shall be as selected by the CITY.

16.0 Site Restoration

The DBF shall restore damaged areas or temporarily relocated utilities and improvements to a condition equal to or better than original condition prior to such damage or temporary relocation. All asphalt and concrete shall be saw cut to ensure clean edges.

The DBF shall make any repairs to landscaped and grassed areas that may be damaged by DBF activities. Landscaping and sodding in CITY rights-of-way shall be done in accordance with the applicable CITY standards. All damaged asphaltic concrete pavement shall be reconstructed in accordance with the requirements of applicable CITY Specifications. Two lane restoration (milling and resurfacing) is required for all work in right of way as shown on the Conceptual Plans in Exhibit C.

All damaged signs, reflective pavement markers, traffic stripes and markings shall be replaced in conformance with FDOT requirements. The DBF shall replace any existing reflective pavement markers, traffic stripes and markings damaged during construction. Paint for traffic stripes and markings shall be in conformance with FDOT specification Section 711 titled "Thermoplastic Traffic Stripes and Markings".

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The DBF shall replace all signs damaged during construction. Traffic regulating signs shall conform to the colors, dimensions and requirements of the Federal Highway Administration document titled "Manual on Uniform Traffic Control Devices".

Damaged concrete pavement, curbs and sidewalks shall be reconstructed as new to existing lines, grades and dimensions.

Irrigation systems (piping, control wiring, etc.) damaged by DBF activities shall be restored to fully operational condition.

EXHIBIT C

CONCEPTUAL LAYOUTS

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567



CITY OF FORT LAUDERDALE

PROJECT #12567

PUMP STATION B-4
REDUNDANT FORCE MAIN

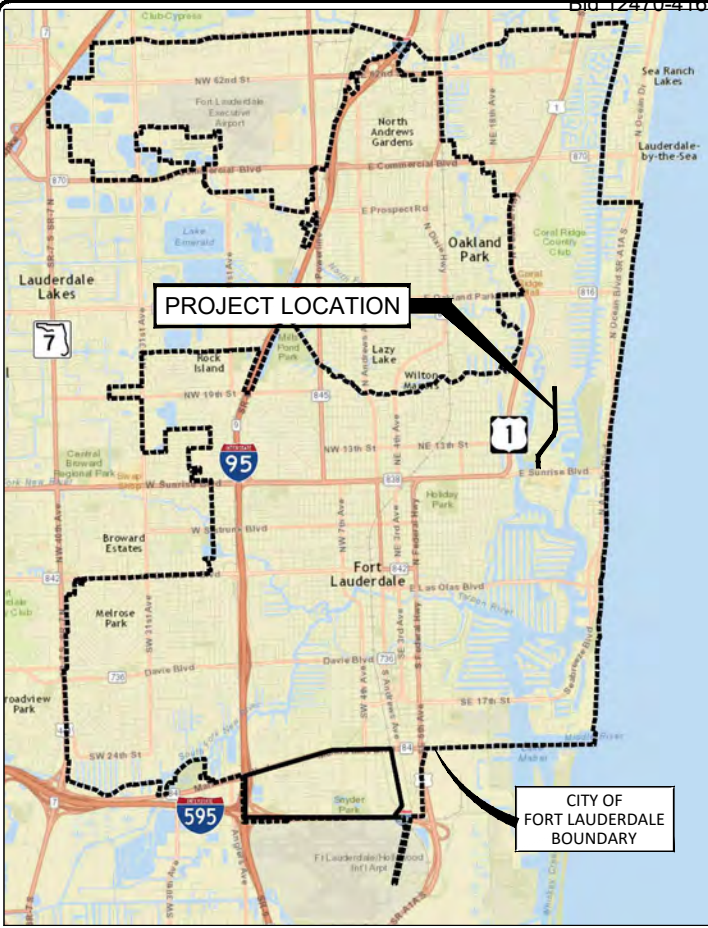
FORT LAUDERDALE, FLORIDA
DESIGN CRITERIA PACKAGE (DCP)
DCP SET - NOT FOR CONSTRUCTION



HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301
Certificate of Authorization No: 2771

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| G06 | STAGING AREAS | |
| G07 | STAGING AREAS - SHEET 1 | |
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| C00 | KEY PLAN | |
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LOCATION SKETCH

PROJECT #12567

PUMP STATION B-4 REDUNDANT FORCE MAIN



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

FORT LAUDERDALE CITY COMMISSION

| | |
|-------------------|-----------------------------|
| DEAN J. TRANTALIS | MAYOR |
| HEATHER MORAITIS | COMMISSIONER - DISTRICT I |
| STEVEN GLASSMAN | COMMISSIONER - DISTRICT II |
| ROBERT McKINZIE | COMMISSIONER - DISTRICT III |
| BEN SORENSEN | COMMISSIONER - DISTRICT IV |

| | | |
|---------------------|--------------------|--------------|
| PROJECT MANAGER | JOB TITLE | PHONE NO. |
| KRISHAN KANDIAL, PE | PROJECT MANAGER II | 954-828-4019 |

DATE: 11/2/20
CAD FILE: 43194-026-G01-COVR
DRAWING FILE No.: G01

DCP SET - NOT FOR CONSTRUCTION

Hazen
HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ABBREVIATIONS


| VALVE AND FITTING ABBREVIATIONS: | | GENERAL | GENERAL CONT. | GENERAL CONT. | GENERAL CONT. |
|----------------------------------|-----------------------------|----------|------------------------------|---------------|--------------------------------------|
| ARV | AIR RELIEF VALVE | A | ARC DISTANCE | EQUIP | EQUIPMENT |
| BF | BLIND FLANGE | AB | ANCHOR BOLT | ES | ELECTRICAL SERVICE |
| BFV | BUTTERFLY VALVE | A/C | AIR CONDITIONER | ESC | EROSION AND SEDIMENT CONTROL |
| BV | BALL VALVE | ACU | AIR CONDENSATE UNIT | EXH | EXHAUST |
| CO | CLEAN OUT | AL, ALUM | ALUMINUM | EXIST | EXISTING |
| CPLG | COUPLING | ALT | ALTERNATIVE | EXP | EXPANSION |
| CV | CHECK VALVE | o | ANGLE | EXT | EXTERIOR |
| DV | DIAPHRAGM VALVE | APPROX | APPROXIMATE | FDOT | FLORIDA DEPARTMENT OF TRANSPORTATION |
| EXP JT | EXPANSION JOINT | ARCH | ARCHITECTURAL | FDR | FLOOR DRAIN |
| FCO | FLOOR CLEAN OUT | BLDG | BUILDING | FE | FIRE EXTINGUISHER |
| FD | FLOOR DRAIN | BLK | BLOCK | FF | FINISH FLOOR |
| FH | FIRE HYDRANT | BM | BENCHMARK | FG | FINISH GRADE |
| FLG | FLANGE | BOTT | BOTTOM | FIN | FINISH |
| FS | FLOOR SINK | BOW | BACK OF WALK | FL | FLOOR |
| GV | GATE VALVE | BP | BID PACKAGE | FM | FORCE MAIN |
| HB | HOSE BIBB | CA | CENTRAL ANGLE | FND | FOUND |
| HD | HUB DRAIN | CB | CATCH BASIN | FP | FLAG POLE |
| ICV | IRRIGATION CONTROL VALVE | CC | CENTER TO CENTER | FT | FOOT OR FEET |
| LR | LONG RADIUS | CHK'D | CHECKERED | FTG | FOOTING OR FITTING |
| MJ | MECHANICAL JOINT | C.I. | CURB INLET | GALV | GALVANIZED |
| RMJ | RESTRAINED MECHANICAL JOINT | CJ | CONSTRUCTION JOINT | GPM | GALLONS PER MINUTE |
| NPT | NATIONAL PIPE THREAD | CL, q | CENTER LINE | GR | GRADE |
| PE | PLAIN END | CLF | CHAIN LINK FENCE | H | HIGH |
| PV | PLUG VALVE | CLR | CLEAR | HORIZ | HORIZONTAL |
| PRV | PRESSURE RELIEF VALVE | COL | COLUMN | HDD | HORIZONTAL DIRECTIONAL DRILL |
| RED | REDUCER | CO | COMPANY | HP | HIGH POINT |
| SOV | SOLENOID OPERATED VALVE | CONC, C | CONCRETE | HS | HIGH SERVICE |
| THD | THREADED | CONST | CONSTRUCTION | HWL | HIGH WATER LEVEL |
| VAC | VACUUM | CONT | CONTINUOUS | ID | INSIDE DIAMETER |
| | | CONTR | CONTRACTOR | IE | INVERT ELEVATION |
| | | CP | CONCRETE POST | IF | INSIDE FACE |
| | | DBF | DESIGN BUILD FIRM | IN | INCH |
| | | DCP | DESIGN CRITERIA PROFESSIONAL | INFL | INFLUENT |
| | | DET | DETAIL | INJ | INJECTION |
| | | DIA | DIAMETER | INSUL | INSULATION |
| | | DIAG | DIAGONAL | INT | INTERIOR |
| | | DIM | DIMENSION | INV | INVERT |
| | | DISDIR | DIRECTION | IP | IRON PIPE |
| | | CH | DISCHARGE | IRRIG | IRRIGATION |
| | | DMH | DRAIN MANHOLE | IR | IRON ROD |
| | | DN | DOWN | ISO | ISOLATION |
| | | DR | DRAIN | JCT | JUNCTION |
| | | DWG | DRAWING | JT | JOINT |
| | | EA | EACH | LBS/FT | POUNDS PER FOOT |
| | | ECC | ECCENTRIC | LG | LONG |
| | | EF | EACH FACE | LN | LINE |
| | | EL, ELEV | ELEVATION | LP | LOW POINT OR LIGHT POLE |
| | | ELEC | ELECTRIC | LR | LONG RADIUS |
| | | ENGR | ENGINEER | LWL | LOW WATER LEVEL |
| | | EOP | EDGE OF PAVEMENT | MANUF | MANUFACTURER |
| | | EW | EACH WAY | MAX | MAXIMUM |

| FLOWSTREAM IDENTIFICATION: | |
|----------------------------|---------------------|
| ED | EQUIPMENT DRAIN |
| FM | FORCE MAIN |
| FR | FUEL RETURN |
| FS | FUEL SUPPLY |
| OF | OVERFLOW |
| PW | POTABLE WATER |
| RD | ROOF DRAIN |
| SA | SAMPLE |
| SAN | SANITARY SEWER |
| SPD | SUMP PUMP DISCHARGE |
| SS | SANITARY SEWER |
| STRM | STORMWATER |
| WM | WATER MAIN |

| PIPING: | |
|---------|--------------------------------|
| CAS/CIP | CAST IRON PIPE |
| CMP | CORRUGATED METAL PIPE |
| CU | COPPER OR CUBIC |
| DIP | DUCTILE IRON PIPE |
| GIP | GALVANIZED PIPE |
| GSP | GALVANIZED STEEL PIPE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| IP | IRON PIPE |
| PCCP | PRECAST CONCRETE CYLINDER PIPE |
| PVC | POLYVINYLCHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SCP | SECONDARY CONTAINMENT PIPE |
| SS | STAINLESS STEEL PIPE |

| | | | |
|--------------|-----|-------------|---------|
| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | N/A |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISONS | | DESCRIPTION | |
|----------|------|-------------|-------|
| NO. | DATE | BY | CHK'D |
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PROJECT # 12567
PUMP STATION B-4
REDUNDANT FORCE MAIN
ABBREVIATIONS

DRAWING #
G02

SHT #
2

TOTAL: 20

CAD FILE:
43194-026-G02-ABBR

CAM 21-0345

144

Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

| LINETYPES | SYMBOLS, LEGEND AND HATCH PATTERNS | | | | | SECTION AND DETAIL IDENTIFICATION |
|--|--|--|--|--|---|-----------------------------------|
| <p><u>COMMUNICATION, CABLE TV, TELEPHONE:</u></p> <p>—COM(CT)— COMCAST LINES</p> <p>— COM OH — COMMUNICATIONS</p> <p>—COM(CC)— CROWN CASTLE LINES</p> <p>—COM(FD)— FIBERNET DIRECT LINES</p> <p>—COM(L3)— LEVEL 3 LINES</p> <p>—GPS OH— GPG LINES</p> <p>—UGT— UNDERGROUND TELEPHONE LINES</p> <p>—OHT— OVERHEAD TELEPHONE LINES</p> <p><u>ELECTRIC LINES:</u></p> <p>—X-X ELEC— ELECTRIC DUCT (X-X = WIRES/GUAGE)</p> <p>—UGE— UNDERGROUND ELECTRIC LINES</p> <p>—OHE— OVERHEAD ELECTRIC LINES</p> <p><u>OTHERS LINES:</u></p> <p>—GAS— GAS MAIN (SIZE UNKNOWN)</p> <p>—X" GAS— GAS MAIN (SIZE)</p> <p>—AIR— UNDERGROUND AIR LINE</p> <p>—FM— SANITARY FORCE MAIN (SIZE UNKNOWN)</p> <p>—X" FM— SANITARY FORCE MAIN (SIZE)</p> <p>—X" PVC FM— SANITARY FORCEMAIN (SIZE/MATERIAL)</p> <p>—SAN— SANITARY GRAVITY (SIZE UNKNOWN)</p> <p>—X" SAN— SANITARY GRAVITY MAIN (SIZE)</p> <p>—X" PVC SAN— SANITARY GRAVITY (SIZE/MATERIAL)</p> <p>—SD— STORM DRAINAGE (SIZE UNKNOWN)</p> <p>—X" SD— STORM DRAINAGE (SIZE)</p> <p>—X" PVC SD— STORM DRAINAGE (SIZE/MATERIAL)</p> <p>—WM— WATER MAIN (SIZE UNKNOWN)</p> <p>—X" WM— WATER MAIN (SIZE)</p> <p>—X" DIP WM— WATER MAIN (SIZE/MATERIAL)</p> <p>—OHW— OVER HEAD WIRES (TYPE UNKNOWN)</p> <p>—UNK UG — UNDERGROUND LINE (TYPE UNKNOWN)</p> <p>· / / / / · ABANDONED</p> <p>· X X X X X · DEMOLISHED</p> <p>———— EXISTING</p> <p>———— PROPOSED</p> <p> PROPOSED PIPELINE (DOUBLE LINE IF SCALE OF DRAWING PERMITS)</p> <p>----- PLASTIC FENCE</p> <p>----- WOODEN FENCE</p> <p>- - - - - WROUGHT IRON FENCE</p> <p>-X-X-X-X- CHAIN LINK FENCE</p> <p>-□-□-□- BOARD FENCE</p> <p>— · — · — PROPERTY LINE</p> <p>— - - - - EASEMENT LINE</p> | <p><u>LANDSCAPING SYMBOLS:</u></p> <p> PALM TREE</p> <p> SHADE TREE</p> <p> PINE TREE</p> <p> CACTUS</p> <p> HEDGE</p> <p> VEGETATION</p> <p> BUSH</p> <p> UNKNOWN TREE</p> <p><u>LEGEND:</u></p> <p>A/C AIR CONDITIONING UNIT</p> <p>↑ AIR RELEASE VALVE</p> <p> AIR VALVE MANHOLE</p> <p>✓ ANCHOR</p> <p>BFP BACK FLOW PREVENTER</p> <p> BASKET BALL HOOP</p> <p> BBQ GRILL</p> <p>↑ BLOW-OFF VALVE</p> <p> BOAT ANCHOR CLEAT</p> <p>• BOLLARD</p> <p>○ BUILDING COLUMN/PILE</p> <p>○ CATV PEDESTAL</p> <p> CATCH BASIN</p> <p> CATCH BASIN INLET</p> <p> CLEAN OUT</p> <p>◎ COMMUNICATION MANHOLE</p> <p> COMMUNICATION VAULT</p> <p> CONCRETE LIGHT POLE</p> <p> CONCRETE POST</p> <p> CONCRETE POWER POLE</p> <p> CONTOUR LINE ELEVATION</p> <p> CROSS FITTING</p> <p> CURB INLET</p> <p> DECORATIVE/YARD LIGHT POLE</p> <p> DETECTOR CHECK VALVE</p> <p> DOUBLE DETECTOR CHECK VALVE</p> <p> ELECTRIC BOX</p> <p> ELECTRIC MANHOLE</p> <p> ELECTRICAL METER</p> <p> ELECTRIC METER/SERVICE</p> <p> ELECTRICAL OUTLET</p> <p> ELECTRICAL PEDESTAL</p> <p> ELECTRICAL PULL BOX</p> <p> ELECTRICAL VAULT</p> <p>x 10.00 EXISTING SPOT ELEVATION</p> | <p><u>LEGEND CONT:</u></p> <p> FIRE HYDRANT</p> <p>○ FIBER OPTIC PEDESTAL</p> <p> FLAG POLE</p> <p> FORCE MAIN VALVE</p> <p> GAS FUEL CAP</p> <p> GAS MARKER</p> <p> GAS METER</p> <p> GAS VALVE</p> <p> GAS WELL</p> <p> GATE CONTROL BOX</p> <p> GREASE TRAP MH</p> <p> GUY ANCHOR AND WIRE</p> <p> HOSE BIBB</p> <p> IRRIGATION CONTROL VALVE</p> <p> LIFT STATION</p> <p>○ LIFT STATION CAN</p> <p> LIGHT POLE</p> <p> LINESTOP</p> <p> LP GAS TANK</p> <p> MAILBOX</p> <p> MAIL DROP BOX</p> <p>○ MANHOLE</p> <p> MARKER POST</p> <p> METAL LIGHT POLE</p> <p> MONITORING WELL</p> <p> OUTFALL</p> <p> PARK BENCH</p> <p> PEDESTRIAN SIGNAL</p> <p>○ PILE</p> <p> PIN FLAG</p> <p> PIPE MATERIAL CHANGE</p> <p>○ PARKING LIGHT 1 BULB</p> <p>□ PARKING LIGHT 1 BULB</p> <p>○ PARKING LIGHT 2 BULBS</p> <p>□ PARKING LIGHT 2 BULBS</p> <p>○ PARKING LIGHT 3 BULBS</p> <p>□ PARKING LIGHT 3 BULBS</p> <p>○ PARKING LIGHT 4 BULBS</p> <p>□ PARKING LIGHT 4 BULBS</p> <p>○ PARKING METER</p> <p> PARKING METER (DOUBLE)</p> <p>⊞ PLUG</p> <p>⊙ POST INDICATOR VALVE</p> <p> REDUCER</p> <p> ROOF DRAIN</p> | <p><u>LEGEND CONT:</u></p> <p> RAILROAD CROSSING GATE</p> <p> REDUCER FITTING</p> <p> SANITARY CLEAN OUT</p> <p> SANITARY MANHOLE</p> <p> SANITARY WYE LATERAL</p> <p> SIAMESE VALVE</p> <p> SIGN</p> <p> SIGN DOUBLE POST</p> <p> SPOT-FLOOD LIGHT</p> <p> SPRINKLER HEAD</p> <p> SOIL BORING</p> <p>□ SQUARE COLUMN</p> <p>I STEEL I-BEAM</p> <p> STORM CLEAN OUT</p> <p> STORM MANHOLE</p> <p> STORM DRAINAGE VAULT</p> <p> TEE FITTING</p> <p>TELEPHONE BOOTH TELEPHONE BOOTH</p> <p>□ TELEPHONE JUNCTION BOX</p> <p> TELEPHONE MANHOLE</p> <p> TELEPHONE ON PEDESTAL</p> <p>□ TELEPHONE PEDESTAL</p> <p> TELEPHONE PULL BOX</p> <p> TELEPHONE VAULT</p> <p> TEST EXCAVATION LOCATION</p> <p> TEST HOLES</p> <p> TOWER</p> <p> TRAFFIC CAMERA</p> <p> TRAFFIC CONTROL</p> <p> TRAFFIC POLE</p> <p> TRAFFIC PULL BOX</p> <p> TRAFFIC SIGNAL BOX</p> <p> TRAFFIC SIGNAL POLE</p> <p> TRANSFORMER PAD</p> <p> TRASH CAN</p> <p> TRASH CAN</p> <p> UNKNOWN MANHOLE</p> <p> VALLEY CURB INLET</p> <p>⊙ VALVE BOX</p> <p>○ VALVE PIPE</p> <p> WATER MANHOLE</p> <p> WATER METER</p> <p> WATER METER</p> <p> WATER METER (DOUBLE)</p> <p>○ WATER PUMP</p> | <p><u>LEGEND CONT:</u></p> <p>WV WATER VALVE</p> <p> WATER VAULT</p> <p> WATER WELL</p> <p>□ WOOD POST</p> <p> WOOD LIGHT POLE</p> <p> WOOD TELEPHONE POLE</p> <p> WOOD POWER POLE</p> <p>YD YARD DRAIN</p> <p><u>CONTROL LEGEND:</u></p> <p> AERIAL TARGET</p> <p> BENCH MARK</p> <p>D•H DRILL HOLE</p> <p> HUB & TACK</p> <p> IRON PIPE</p> <p> IRON ROD</p> <p> NAIL&TAB</p> <p> PERMANENT REFERENCE MONUMENT</p> <p> PERMANENT REFERENCE MONUMENT NAIL&TAB</p> <p> PKNAIL.SPIKE</p> <p> QUARTER SECTION CORNER</p> <p> SECTION CORNER</p> <p>x.x.x EXISTING SPOT ELEVATION</p> <p>x.x.x PROPOSED SPOT ELEVATION</p> <p><u>HATCH LEGEND:</u></p> <p> PERMEABLE PAVEMENT</p> <p> GRASSY SWALE</p> <p> EXFILTRATION TRENCH</p> <p> POROUS PAVEMENT</p> <p> CONTRACTOR STAGING AREA</p> <p> CONCRETE</p> <p> PAVER BRICKS</p> <p> GRAVEL</p> <p> TYPE A PAVING</p> <p> TYPE B PAVING</p> <p> DEMOLITION AREA</p> <p> GRADING DIRECTION</p> | <p>SECTION IDENTIFICATION</p> <p>A. SECTION CUT ON DRAWING C-1</p> <p>B. ON DRAWING C-2 THIS SECTION IS IDENTIFIED AS:</p> <p>SECTION A C-4</p> <p>SCALE: SECTION A C-4</p> <p>DETAIL IDENTIFICATION</p> <p>A. NON STANDARD DETAIL CALL-OUT ON DRAWING:</p> <p>B. CITY STANDARD DETAIL CALL-OUT ON DRAWING:</p> | |
| | | | | | <p>GENERAL NOTES:</p> <p>(1) ELECTRICAL SYMBOLS SHOWN ON ELECTRICAL SHEETS.</p> <p>(2) FOR WELDING SYMBOLS USE AMERICAN WELDING SOCIETY STANDARD SYMBOLS.</p> <p>* DENOTES DIMENSIONS OR ELEVATIONS DEPENDENT ON EQUIPMENT SUPPLIED.</p> | |

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | N/A |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISONS | | DESCRIPTION | |
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PROJECT # 12567
PUMP STATION B-4
REDUNDANT FORCE MAIN
SYMBOLS

| | |
|-----------|--------------------|
| DRAWING # | SHT # |
| G03 | 3 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G03-LEGN |
| FILE NO. | WS-04-10 |

GENERAL NOTES:

1. DBF SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.

2. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.

3. DBF SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. DBF SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.

4. DBF SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.

5. ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.

6. THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE DCP. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE DBF SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.

7. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION. IT IS THE DBF'S RESPONSIBILITY TO VERIFY THEIR LOCATION AND TO AVOID DAMAGE TO THEM. THE DBF SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE DBF SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.

8. DBF SHALL REPLACE SURROUNDING LAND COVER AFFECTED BY CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, PAVERS, SIDEWALK, SOD, AND LANDSCAPING, TO EXISTING OR BETTER CONDITIONS.

9. DBF SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE DBF'S EXPENSE.

10. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE DBF SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE DBF TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.

11. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE DBF SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS WHICH MAY REQUIRE USE OF SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.

12. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH REGULATORY REQUIREMENTS AND PERMITS, AND APPROVED BY DCP.

13. THE DBF SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.

14. THE UNDERGROUND DBF SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE DBF SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE DCP.

15. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.

16. ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE DBF'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.

17. PIPING, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED JOINT.

18. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.

19. THE DBF WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE DBF SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE DBF SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.

20. THE DBF MUST INFORM THE DCP AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.

21. IT WILL BE THE RESPONSIBILITY OF THE DBF TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.

22. DBF SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.

23. DBF SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
24. DBF SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE DBF.

25. STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.

26. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

27. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.

28. DBF SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.

29. DBF SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.

30. THE DBF SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE DBF SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.

31. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE DCP OR CITY OF FORT LAUDERDALE AS NECESSARY.

32. DBF SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAYED WITH ASPHALT.

33. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. DBF SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.


34. DBF SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.

35. TWO LANE RESTORATION IS REQUIRED FOR ALL WORK IN RIGHT-OF-WAY.

Hazen
HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | N/A |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISONS | | DESCRIPTION | |
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PROJECT # 12567
PUMP STATION B-4
REDUNDANT FORCE MAIN
GENERAL NOTES

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| DRAWING # | SHT # |
| G04 | 4 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G04-NOTE |
| DATE: | 11/5/2020 |
| FILE NO. | WS-04-10 |
| EXHIBIT | 3 |

DCP SET - NOT FOR CONSTRUCTION

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

ELEVATIONS SHOWN HEREON ARE
BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)

Always call 811 two full business days before you
dig to have underground utilities located and marked




GENERAL NOTES:

- DESIGN-BUILD FIRM SHALL RESTORE SITE TO EQUAL OR BETTER CONDITION. RESTORATION SHALL INCLUDE BUT NOT LIMITED TO, LANDSCAPING, SPRINKLER SYSTEM, FENCES AND CITY OWNED ASSETS.
- DESIGN-BUILD FIRM SHALL AVOID WORK AROUND THE DRIP LINE OF THE TREE CANOPY TO AVOID IMPACT TO TREES. ANY TREE IMPACTED WILL HAVE TO BE REPLACED. LOCATION WILL BE DETERMINED BY THE CITY'S PARK & RECREATION DEPARTMENT.
- DESIGN-BUILD FIRM SHALL SECURE STAGING AREAS AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC.
- BEFORE MOBILIZING AT ANY OF THE PROPOSED STAGING AREAS A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED WITH THE CITY'S PARKS & RECREATION DEPARTMENT.
- DESIGN-BUILD FIRM SHALL PERFORM PRE-CONSTRUCTION VIDEOS AND PICTURES TO DOCUMENT EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

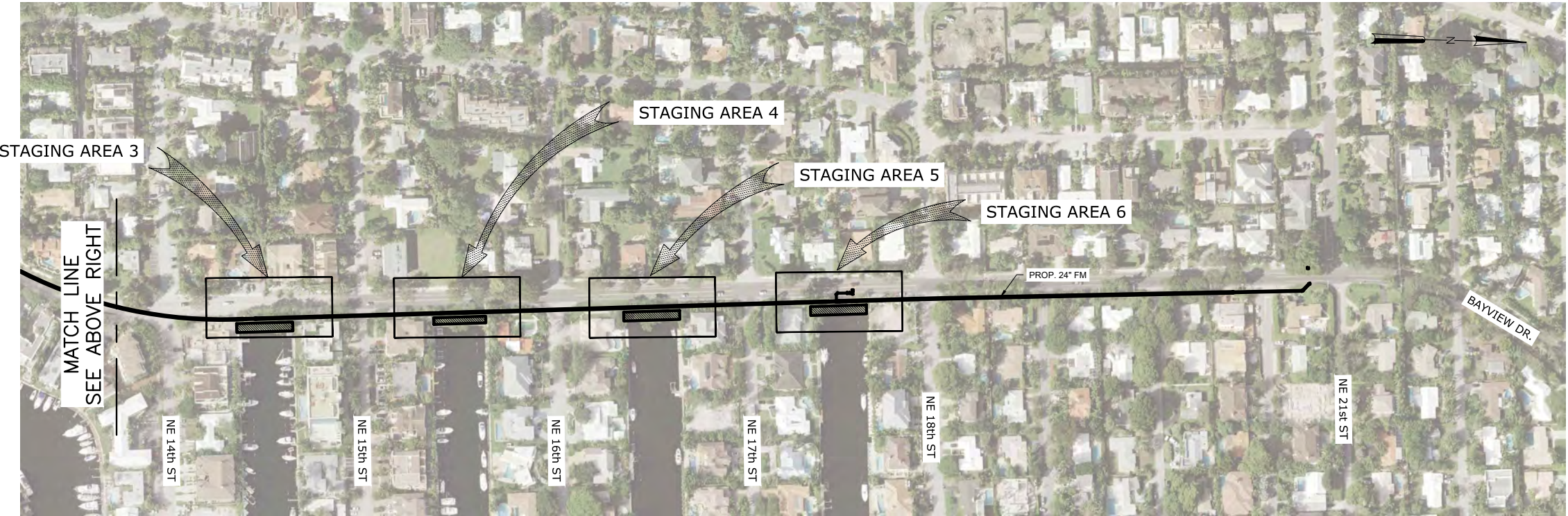
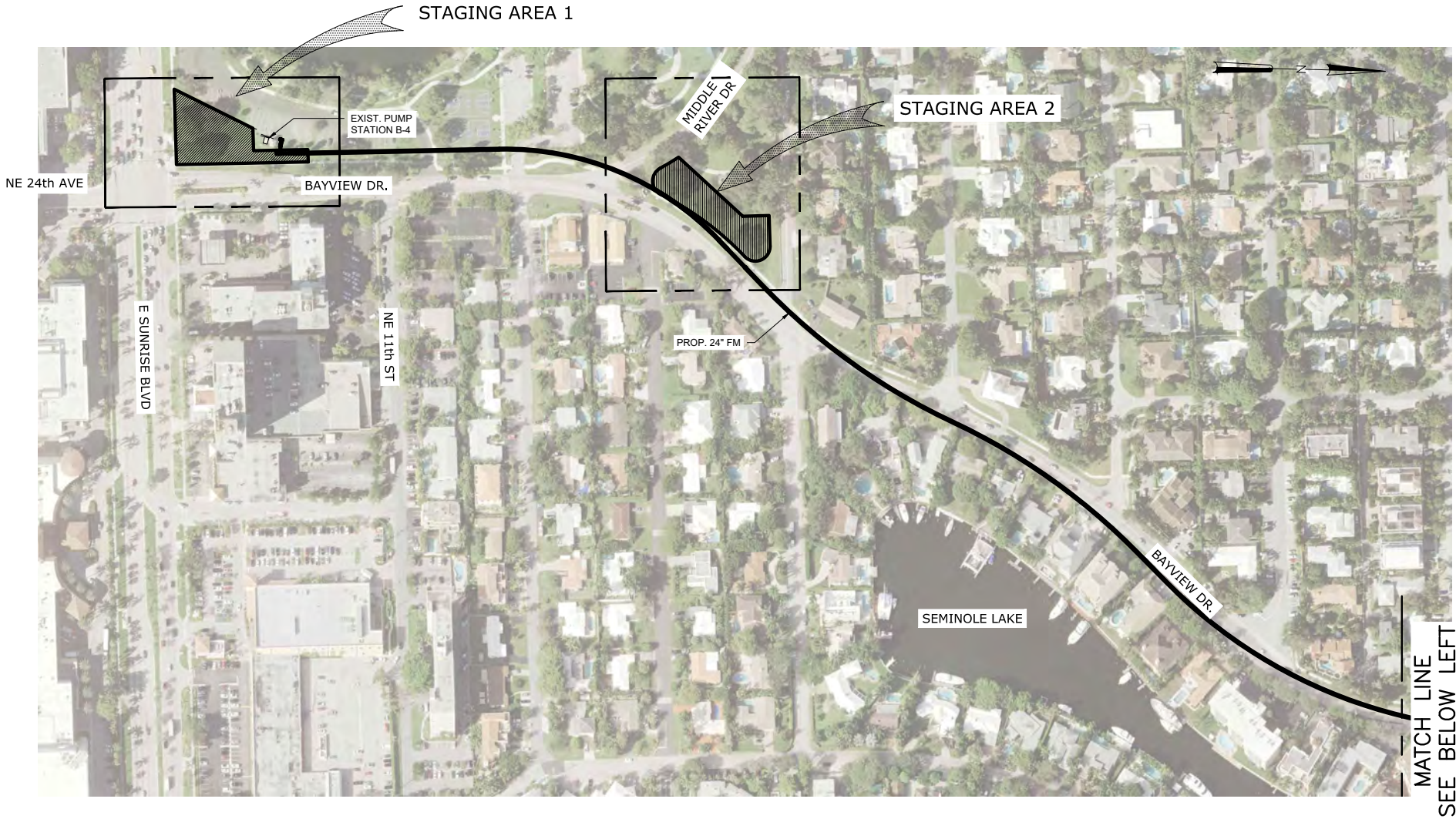


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

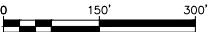
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
STAGING GENERAL PLAN

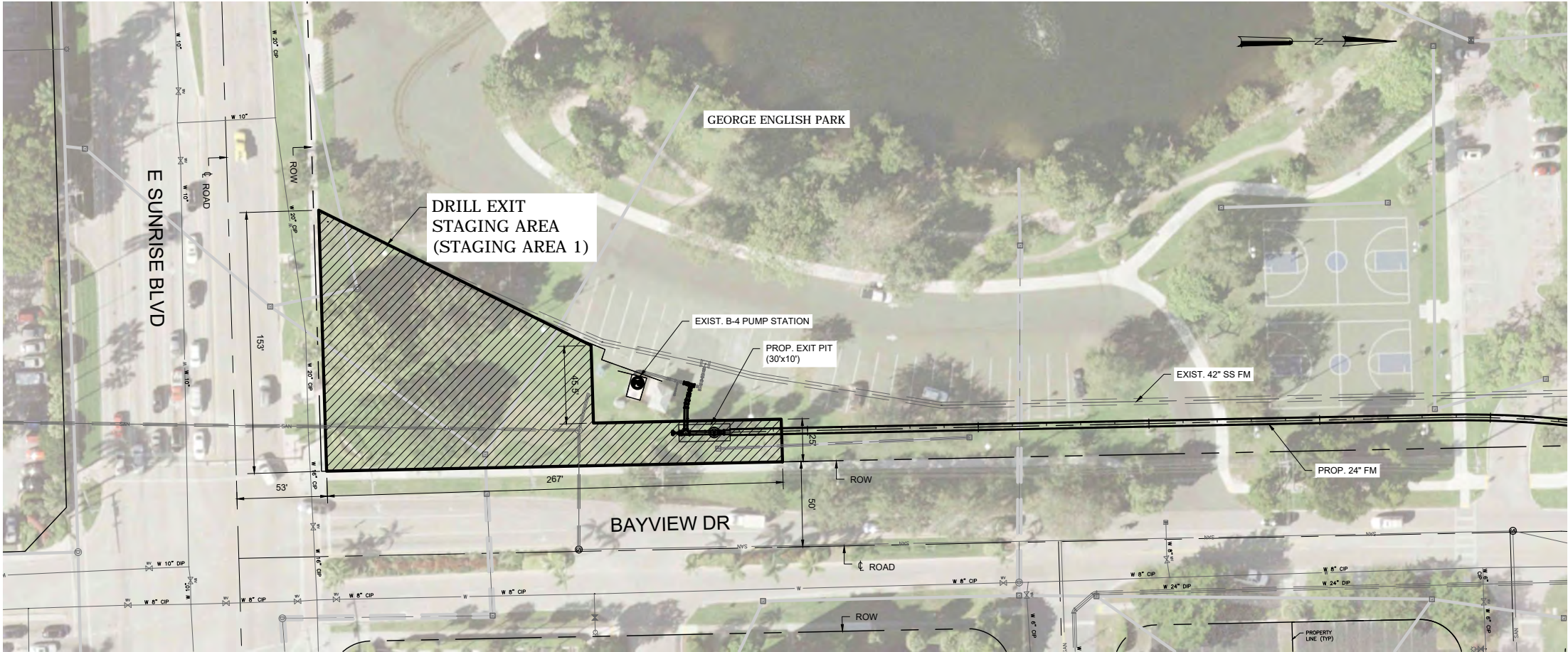
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| DRAWING # | SHT # |
| G05 | 5 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G05 |
| DESIGN FILE NO. | WS-04-10 |



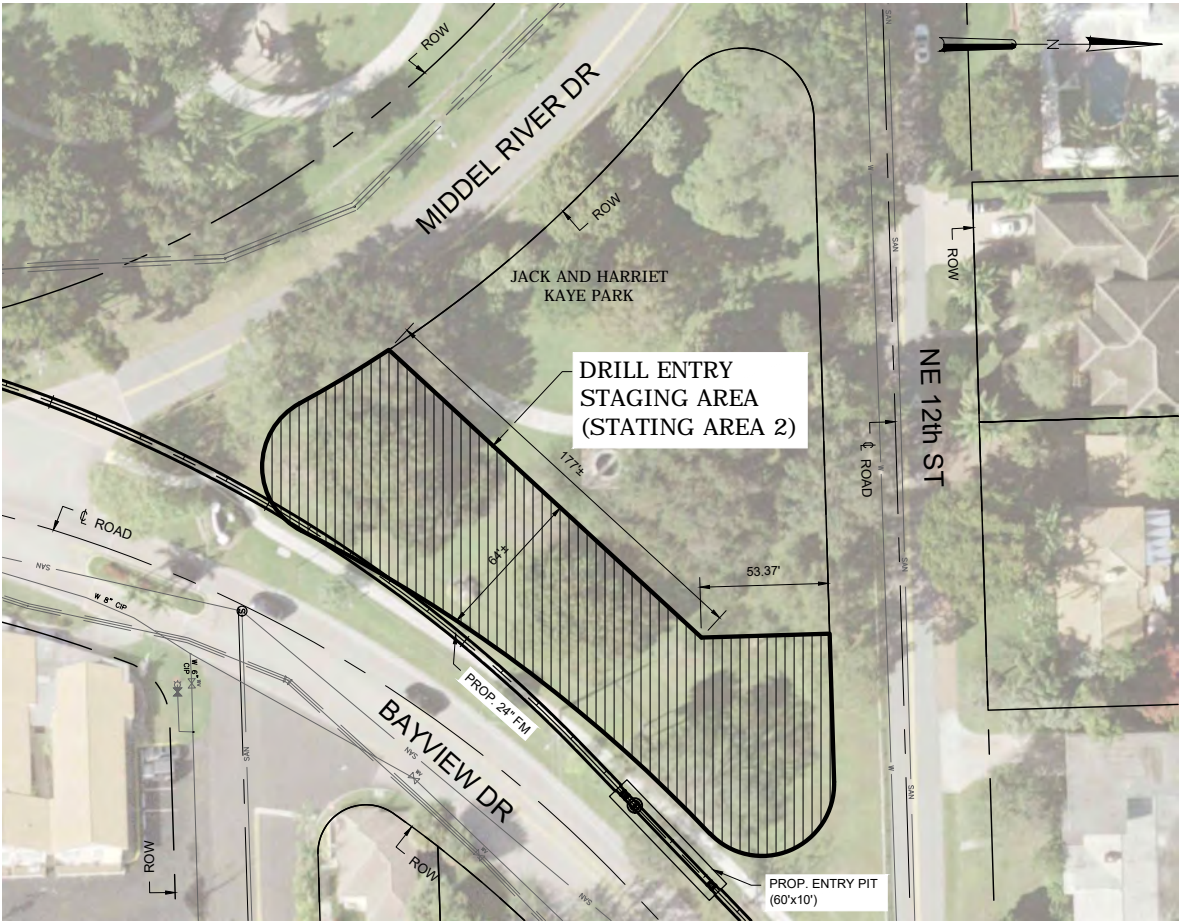
STAGING AREAS GENERAL PLAN
1"=150'-0"



DCP SET - NOT FOR CONSTRUCTION



STAGING AREA 1
1"=40'-0"



STAGING AREA 2
1"=40'-0"

Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301


ELEVATIONS SHOWN HEREON ARE
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Always call 811 two full business days before you
dig to have underground utilities located and marked

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| CHECKED BY: | OJC | | | |
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



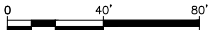
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
STAGING AREAS

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|-----------|---------------|
| DRAWING # | SHT # |
| G06 | 6 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G06 |
| DATE: | 11/6/2020 |
| FILE NO. | WS-04-10 |

Exhibit 3



LEGEND:

- EXISTING
- PROPOSED

DCP SET - NOT FOR CONSTRUCTION

Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301


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BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)

Always call 811 two full business days before you
dig to have underground utilities located and marked



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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

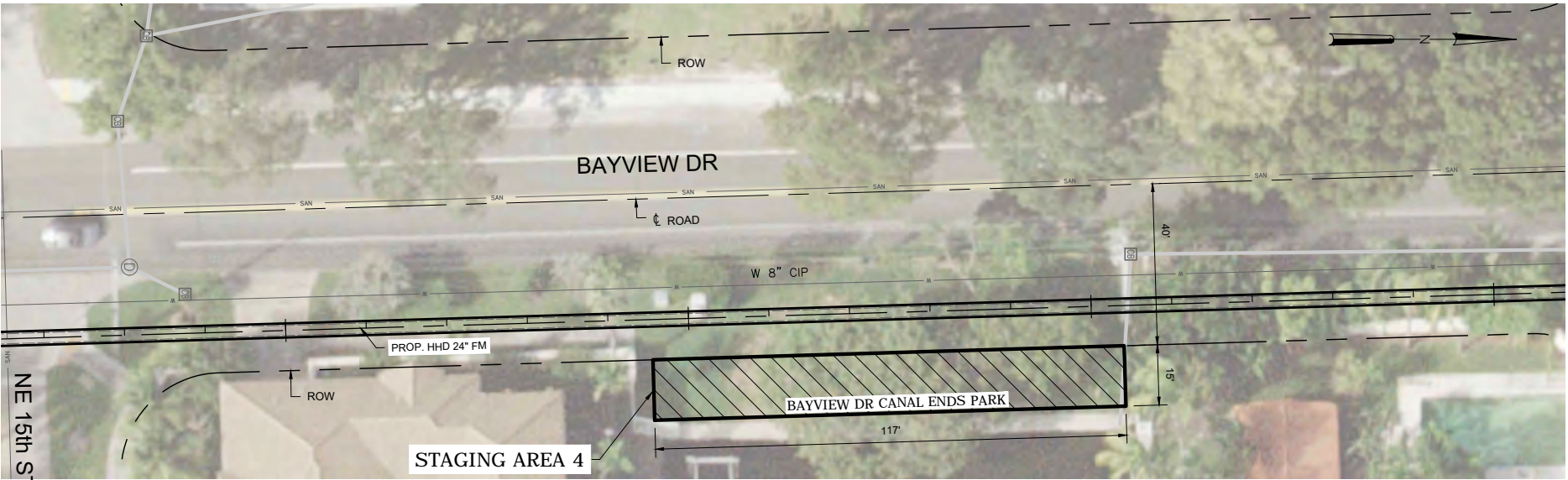
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
STAGING AREAS - SHEET 1

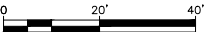
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| G07 | 7 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G07 |
| PLANTING FILE NO. | WS-04-10 |
| EXHIBIT 3 | 149 |



STAGING AREA 3
1"=20'-0"



STAGING AREA 4
1"=20'-0"



LEGEND:

- EXISTING
- PROPOSED

DCP SET - NOT FOR CONSTRUCTION

Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301


ELEVATIONS SHOWN HEREON ARE
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VERTICAL DATUM 1988 (NAVD 1988)

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
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| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

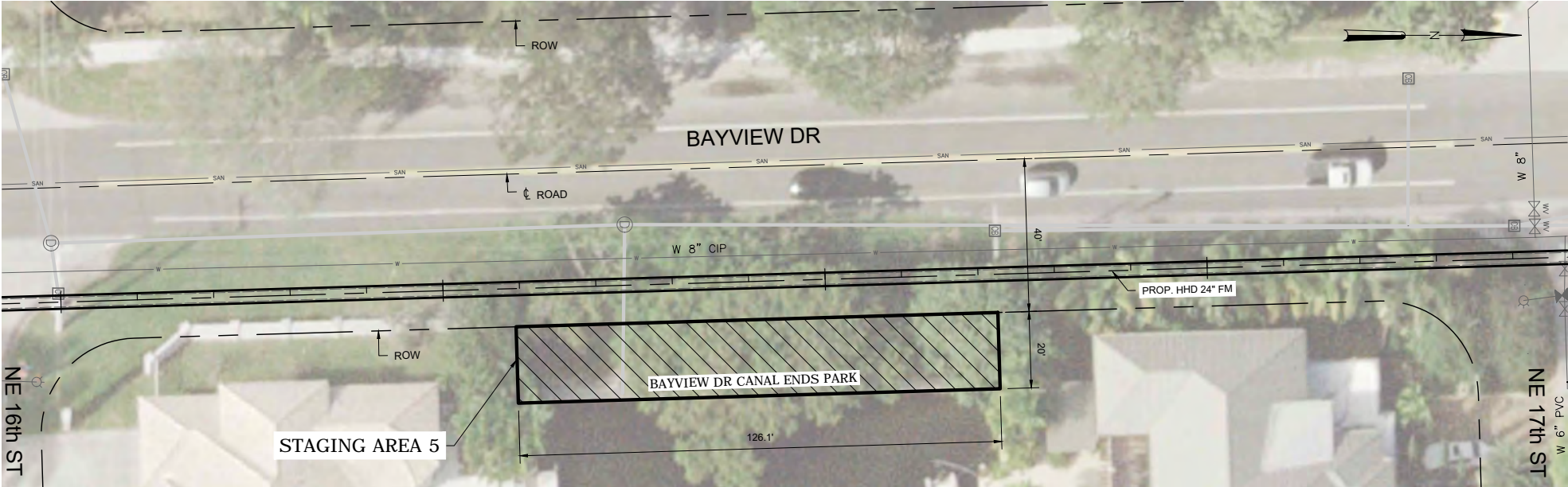
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

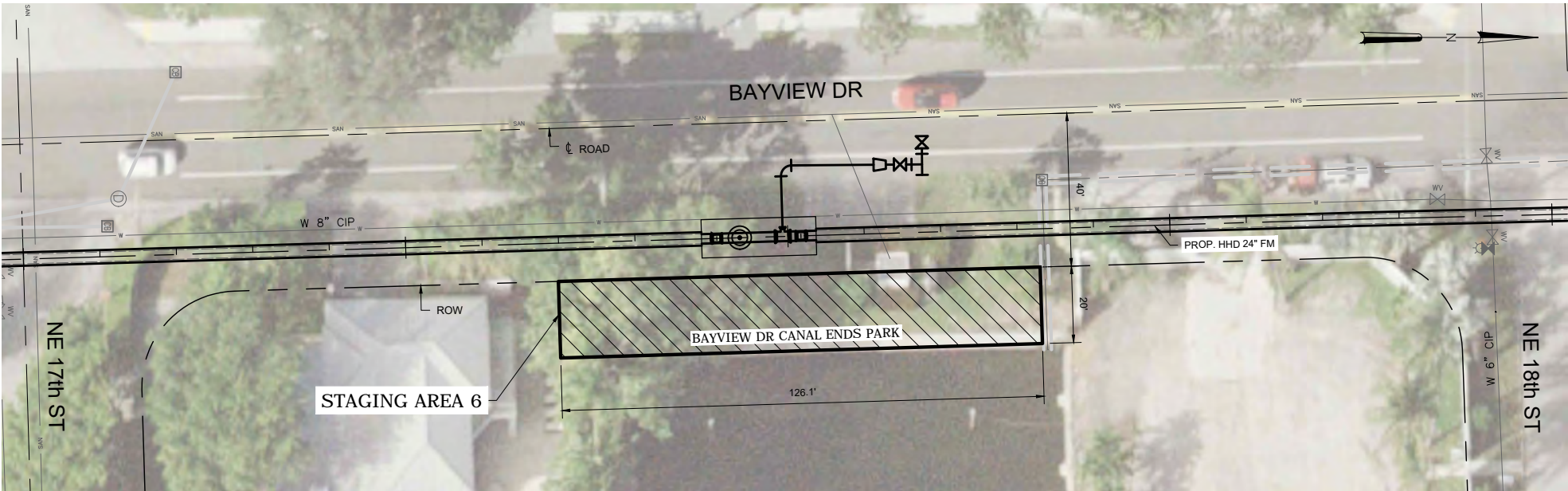
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
STAGING AREAS - SHEET 2

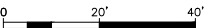
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| G08 | 8 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-G08 |
| ISSUING FILE NO. | WS-04-10 |
| EXHIBIT | 3 |



STAGING AREA 5
1"=20'-0"



STAGING AREA 6
1"=20'-0"



LEGEND:

- EXISTING
- PROPOSED

DCP SET - NOT FOR CONSTRUCTION

Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301


ELEVATIONS SHOWN HEREON ARE
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VERTICAL DATUM 1988 (NAVD 1988)

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

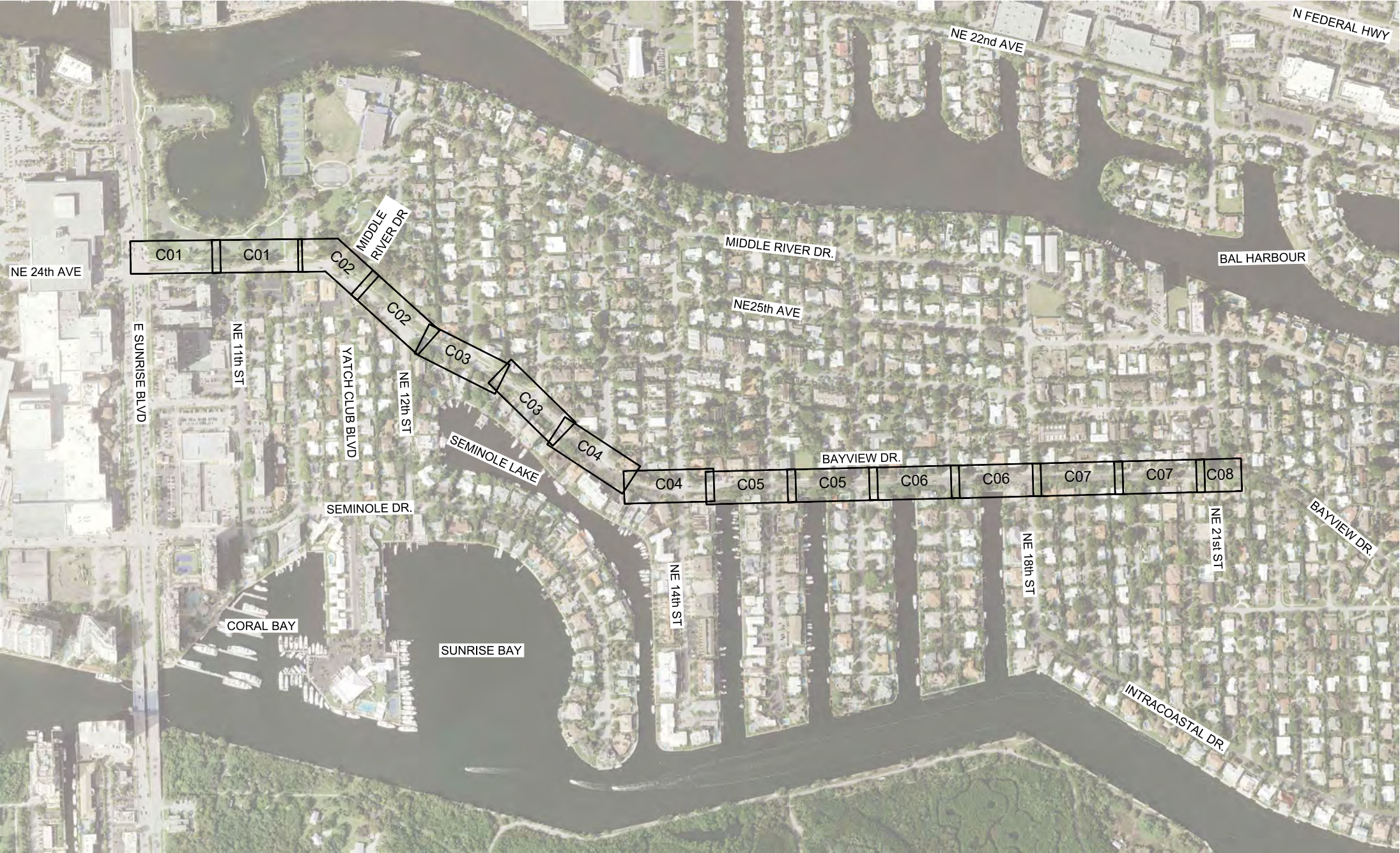
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE


100 North Andrews Avenue, Fort Lauderdale, Florida 33301

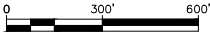
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
KEY PLAN

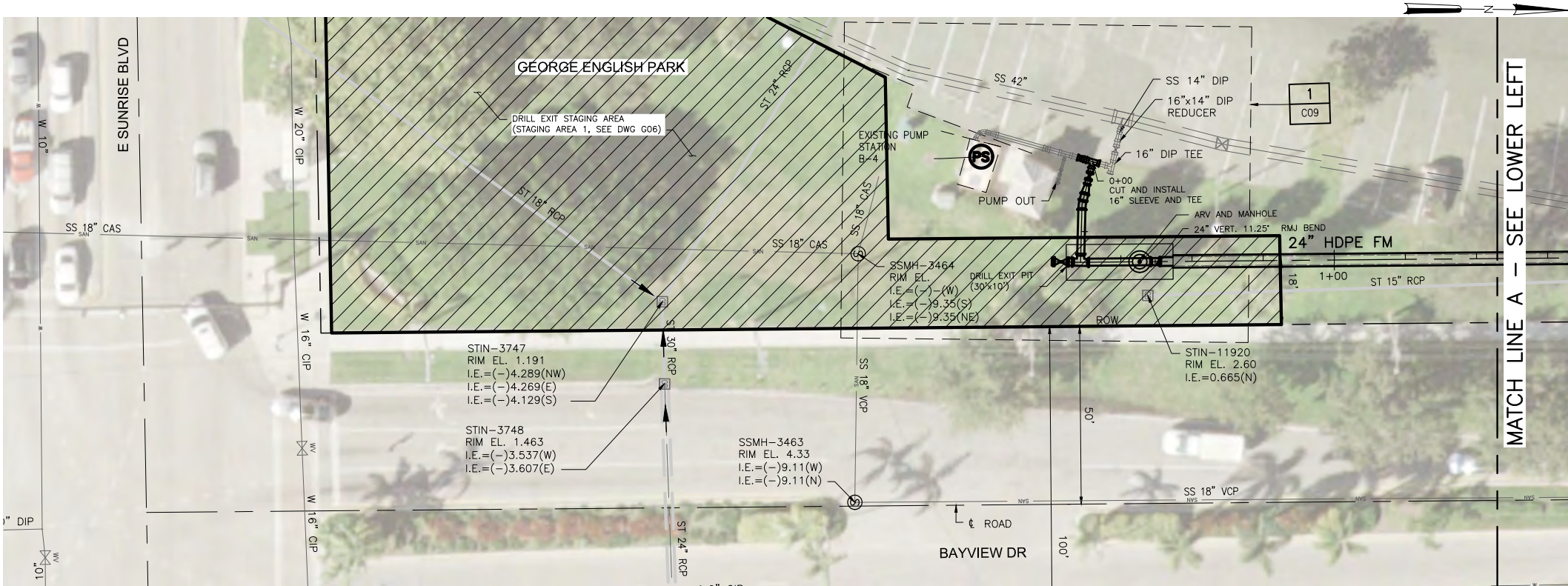
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| C00 | 9 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C00 |
| PLANTING FILE NO. | WS-04-10 |
| EXHIBIT 3 | 151 |



KEY PLAN
1"=300'-0"

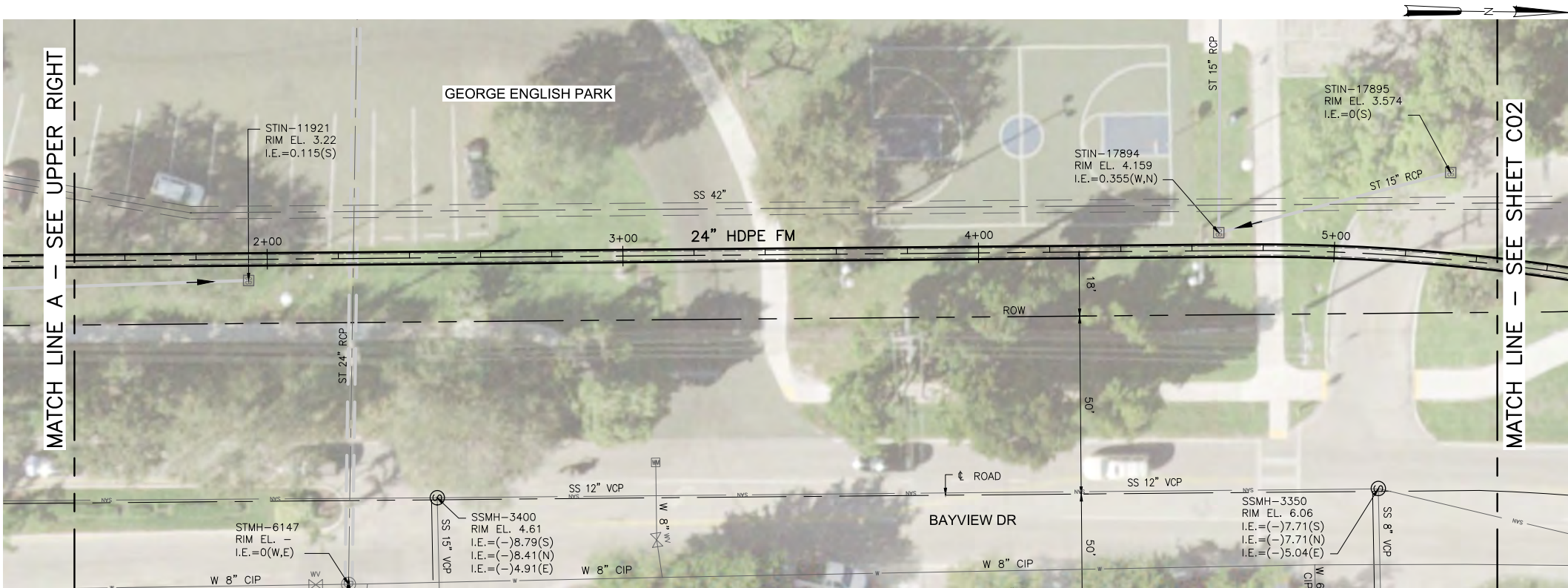


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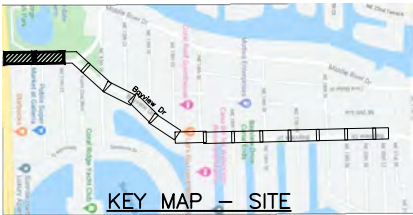
PROPOSED PLAN VIEW

1"=20'-0"



PROPOSED PLAN VIEW

1"=20'-0"



Hazen

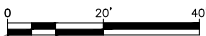
HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE
BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)

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- NOTES:
1. LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS SHALL BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY THE DBF PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
 2. STATIONING IS ALONG THE CENTER OF THE PIPE.
 3. ALL ASPHALT/ CONCRETE SHALL BE SAW CUT TO ENSURE CLEAN EDGES



LEGEND:

- EXISTING
- PROPOSED

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| DRAWN BY: | DATE: |
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| CLK | 1"=20'-0" |
| CHECKED BY: | |
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| FIELD BOOK: | XXXX |

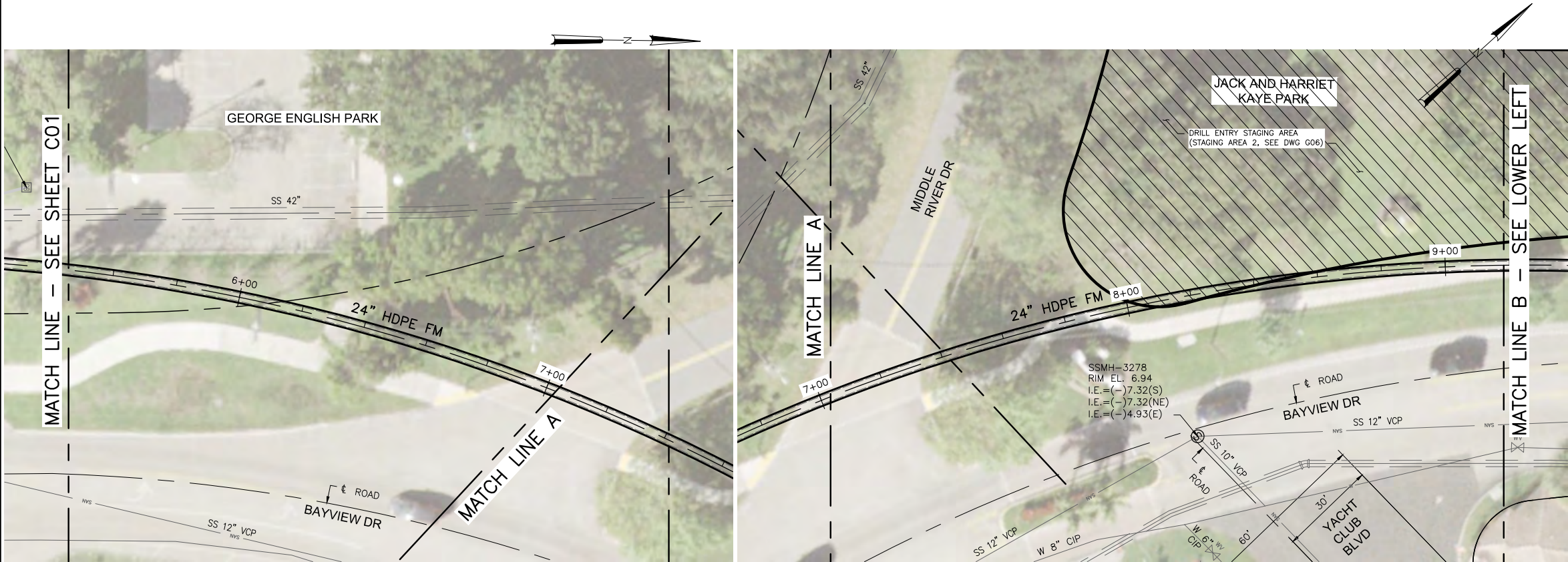
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 1

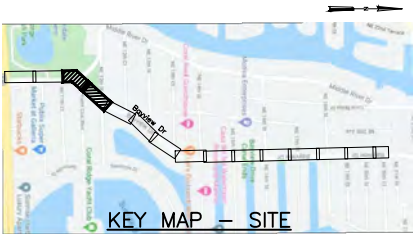
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| DRAWING # | SHT # |
| C01 | 10 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C01 |
| PLANTING FILE NO. | WS-04-10 |
| EXHIBIT 3 | 152 |



PROPOSED PLAN VIEW
1"=20'-0"



PROPOSED PLAN VIEW
1"=20'-0"



Hazen

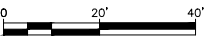
HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

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LEGEND:

— EXISTING

— PROPOSED

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| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

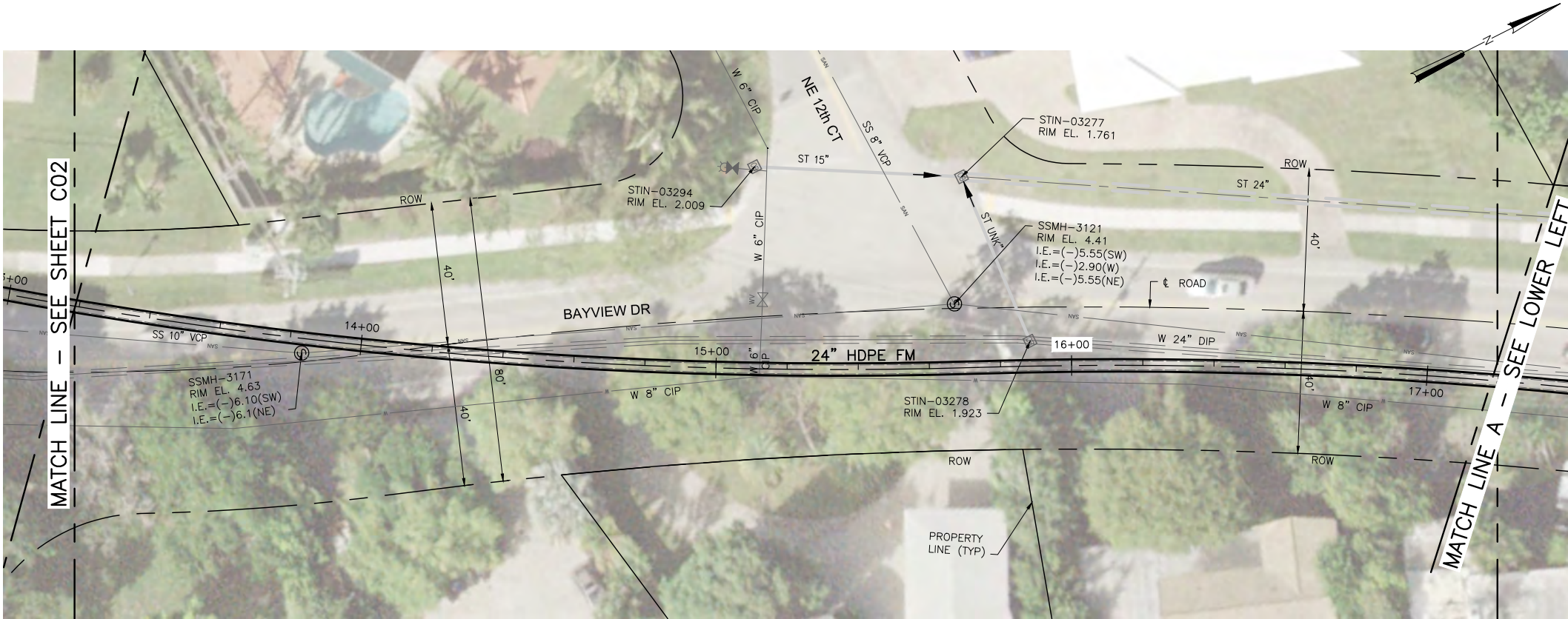
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

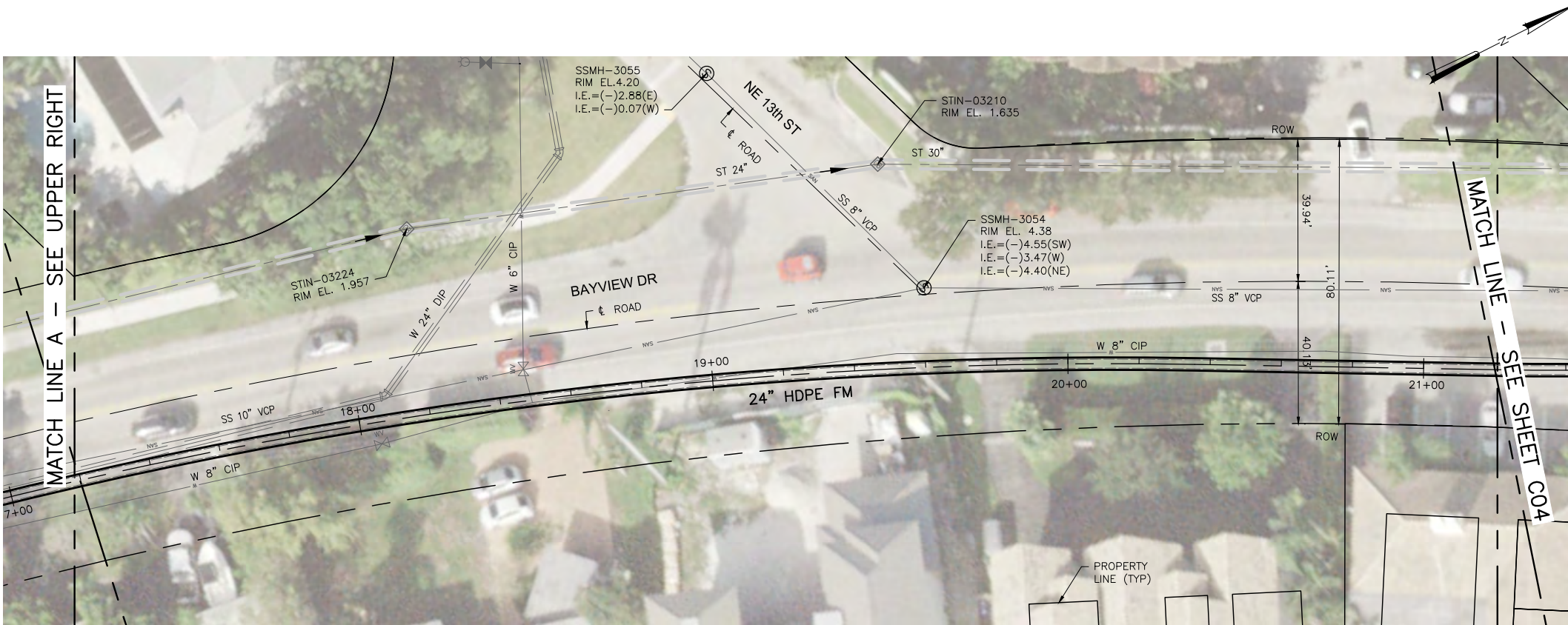
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 2

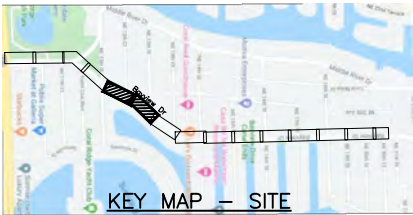
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| TOTAL: | 20 |
| CAD FILE: | 43194-026-C02 |
| PLANTING FILE NO. | WS-04-10 |
| EXHIBIT 3 | 153 |



PROPOSED PLAN VIEW
1"=20'-0"



PROPOSED PLAN VIEW
1"=20'-0"



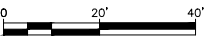
Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE
BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)



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LEGEND:
— EXISTING
— PROPOSED

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| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

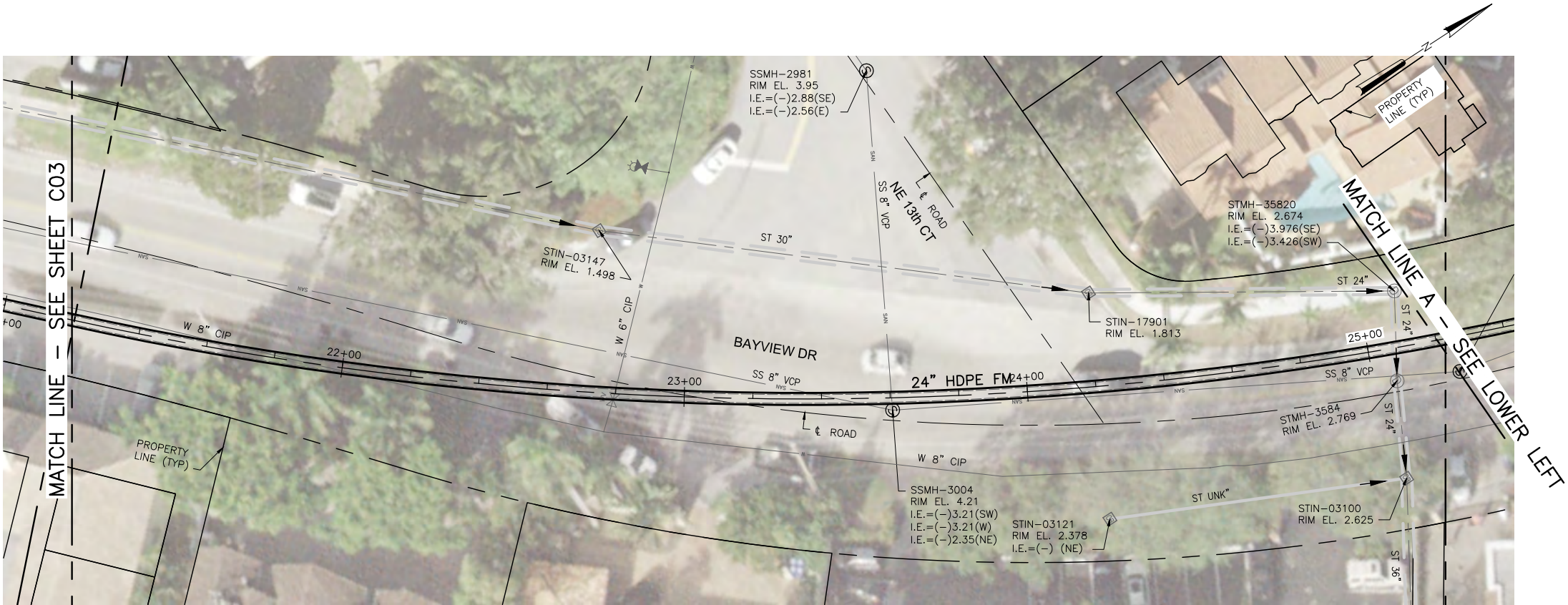
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISIONS | | DESCRIPTION | |
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 3

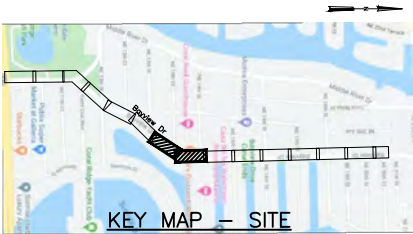
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| CAD FILE: | 43194-026-C03 |
| PLT FILE NO. | WS-04-10 |



PROPOSED PLAN VIEW
1"=20'-0"



PROPOSED PLAN VIEW
1"=20'-0"



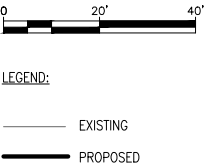
Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE
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VERTICAL DATUM 1988 (NAVD 1988)

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
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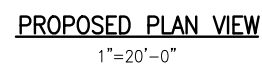
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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 4

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| DRAWING # | SHT # |
| C04 | 13 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C04 |
| PLANTING FILE NO. | WS-04-10 |



HAZEN AND SAWYER
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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
News Avenue, Fort Lauderdale, Florida 33301



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NOTES:

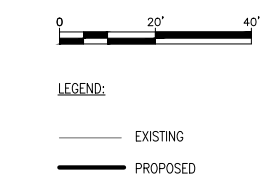
1. LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS SHALL BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY THE DBF PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
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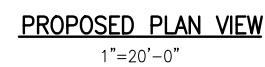
DCP SET - NOT FOR CONSTRUCTION

PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 5

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| C05 | 14 |
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| DRAWING FILE NO. | |
| bit 3 | WS-04-10 |
| 0156 | |

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HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE
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VERTICAL DATUM 1988 (NAVD 1988)

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| DESIGNED BY: | IGA | 11/2/20 |
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| FIELD BOOK: | | |

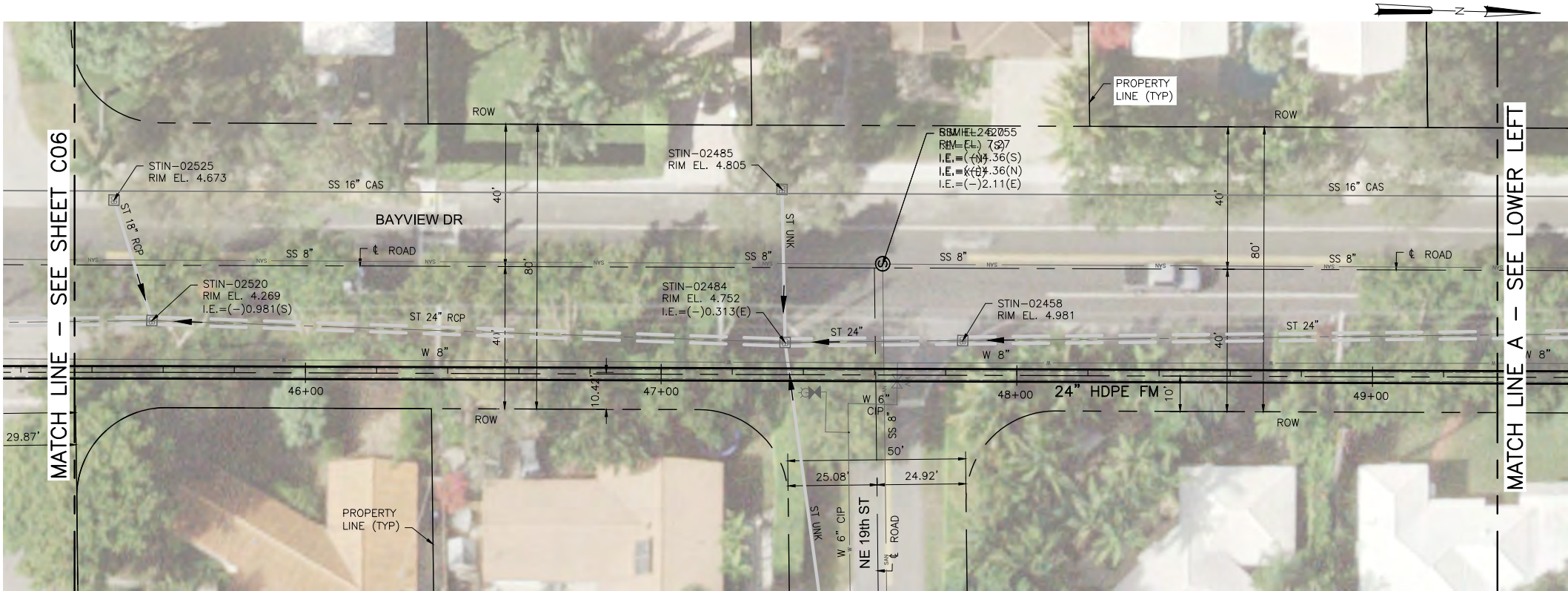
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
news Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 6

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| DRAWING # | SHT # |
| C06 | 15 |
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| DRAWING FILE NO. | |
| bit 3 | WS-04-10 |

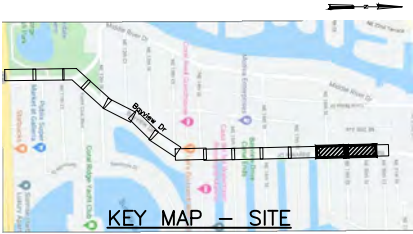
CAM 21-0345
Exhibit 3



PROPOSED PLAN VIEW
1"=20'-0"



PROPOSED PLAN VIEW
1"=20'-0"



Hazen

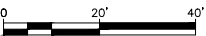
HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

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LEGEND:
— EXISTING
— PROPOSED

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| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

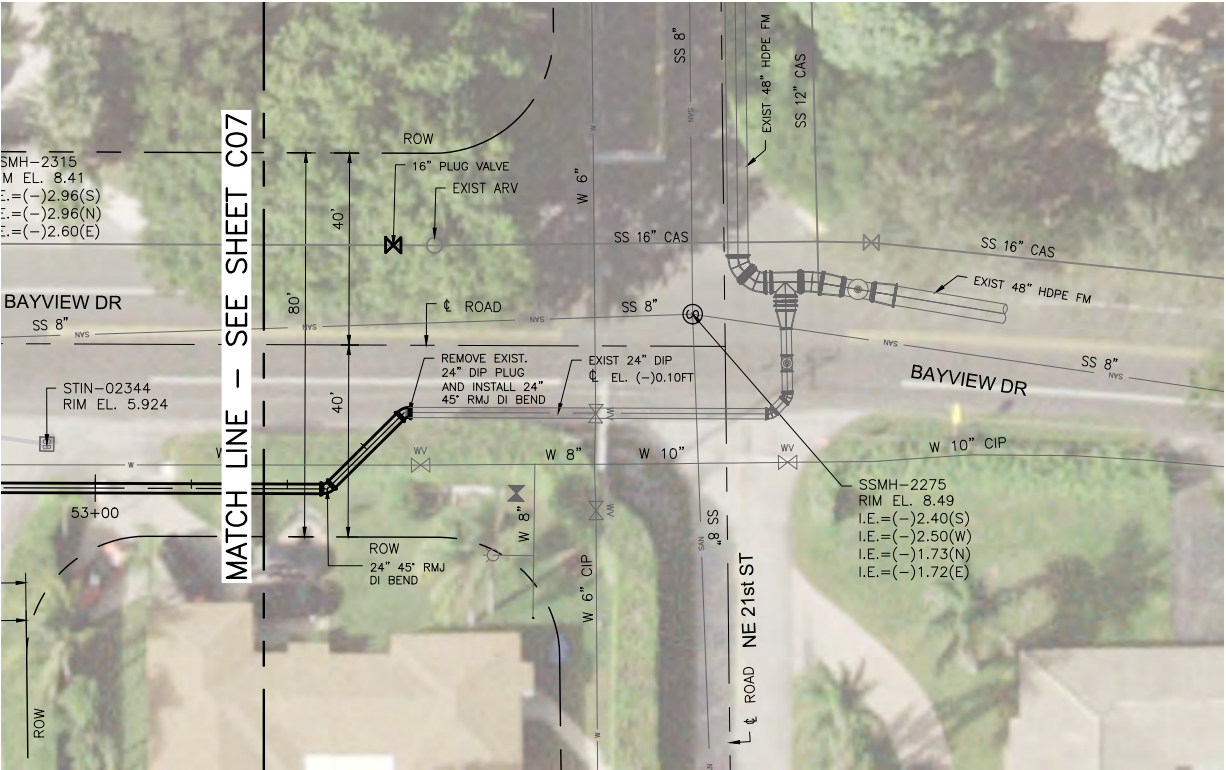
CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

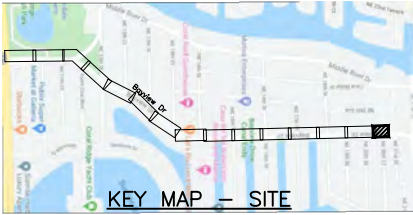
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 7

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|-------------------|---------------|
| DRAWING # | SHT # |
| C07 | 16 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C07 |
| PLANTING FILE NO. | 0345 |
| EXHIBIT FILE NO. | WS-04-10 |



PROPOSED PLAN VIEW
1"=20'-0"



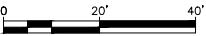
Hazen

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101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

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LEGEND:
— EXISTING
— PROPOSED

DCP SET - NOT FOR CONSTRUCTION

PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING PLAN
SHEET 8

| | |
|--------------|---------------|
| DRAWING # | SHT # |
| C08 | 17 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C08 |
| DATE: | 11/6/2020 |
| DESIGNED BY: | WS-04-10 |
| CHECKED BY: | WS-04-10 |
| DATE: | 11/6/2020 |

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| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | 1"=20'-0" |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISIONS | | DESCRIPTION | |
|-----------|------|-------------|------|
| NO. | DATE | BY | CHKD |
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Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

Certificate of Authorization No: 2771

ELEVATIONS SHOWN HEREON ARE
BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)

Always call 811 two full business days before you
dig to have underground utilities located and marked



| | | | |
|--------------|-----|-------------|----------|
| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | 1"=5'-0" |
| CHECKED BY: | OJC | FIELD BOOK: | XXXX |

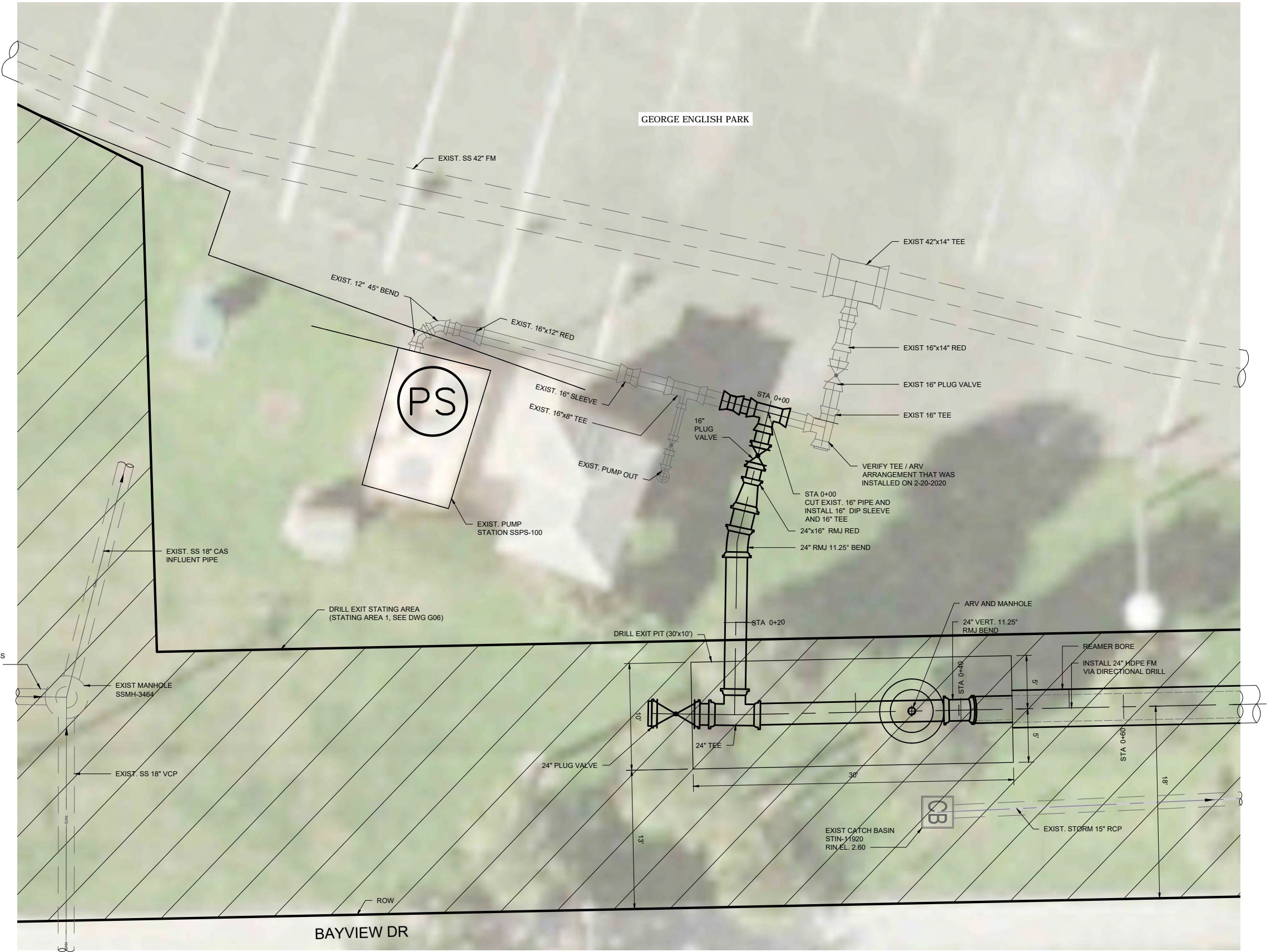
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISIONS | | DESCRIPTION | |
|-----------|------|-------------|------|
| NO. | DATE | BY | CHKD |
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PROJECT # 12567
PUMP STATION B-4 REDUNDANT
FORCE MAIN
PIPING DETAILS

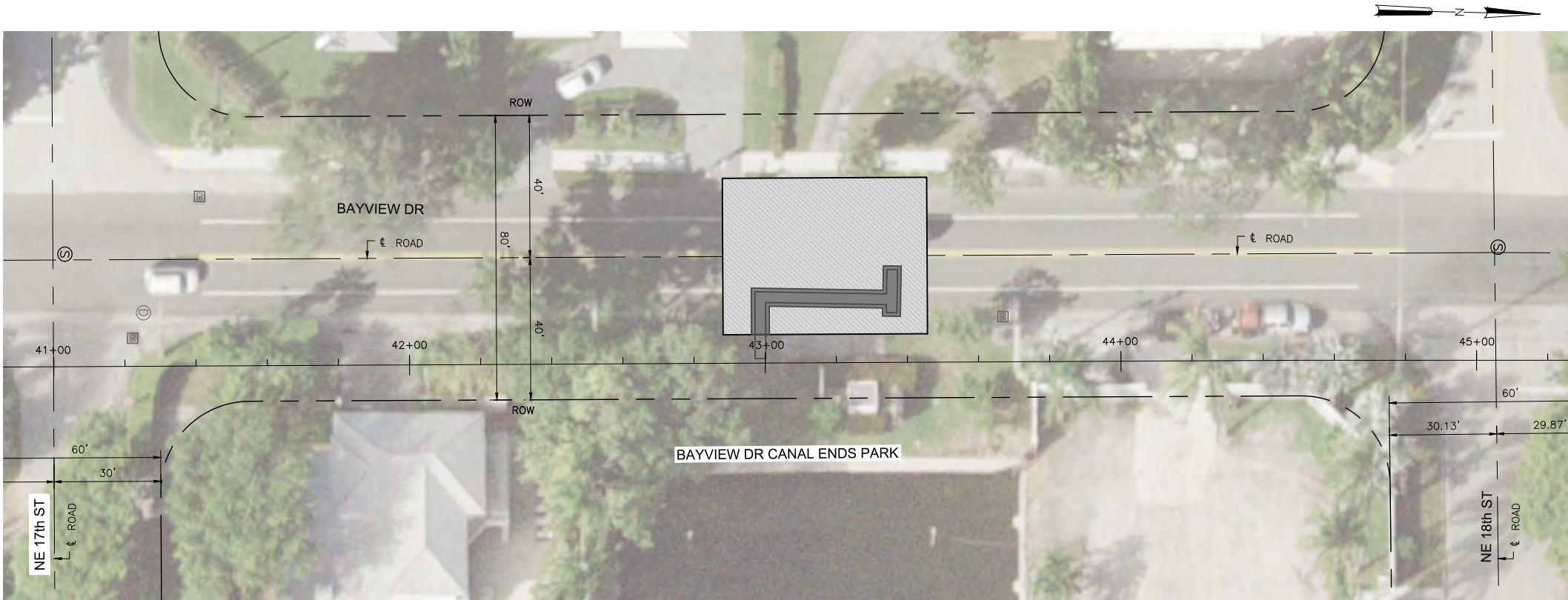
| | |
|------------------|---------------|
| DRAWING # | SHT # |
| C09 | 18 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C09 |
| ISSUING FILE NO. | WS-04-10 |
| EXHIBIT | 3 |



LEGEND:
— EXISTING
— PROPOSED

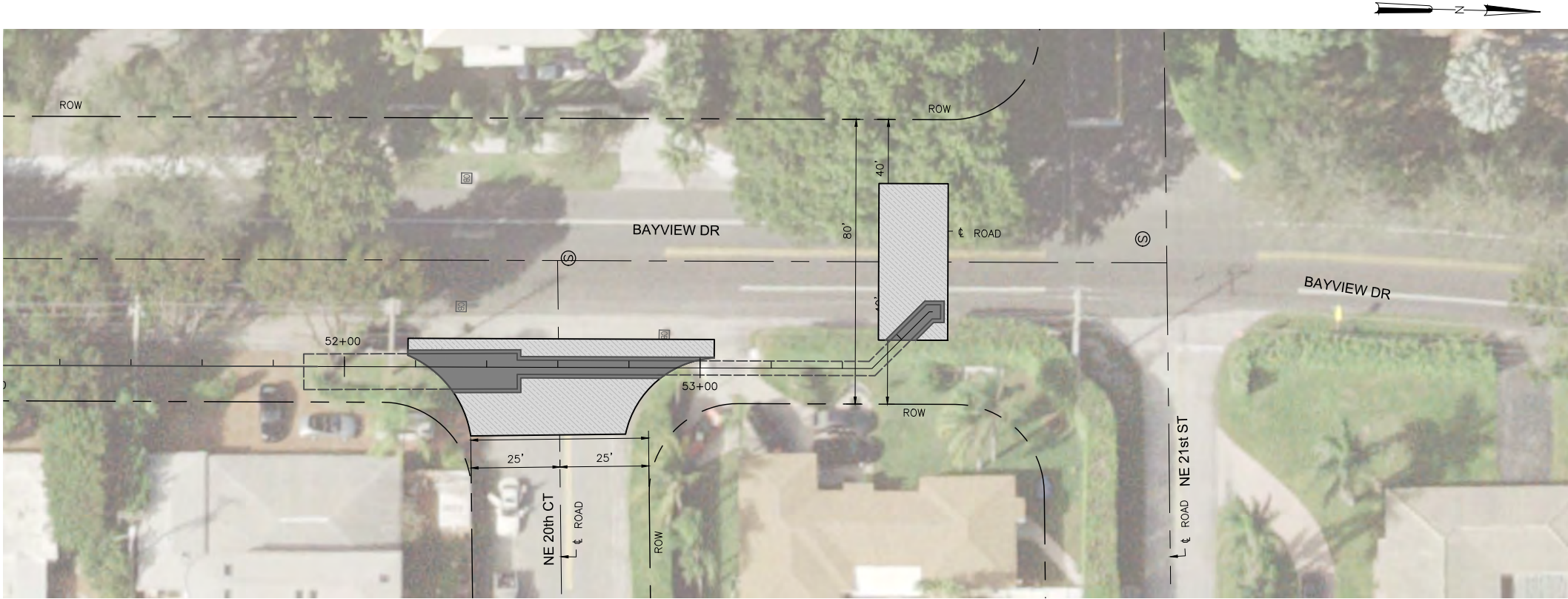
DETAIL 1
1" = 5'-0"

DCP SET - NOT FOR CONSTRUCTION



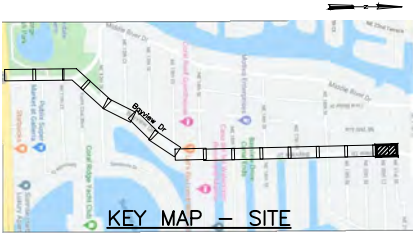
PROPOSED RESTORATION

1"=20'-0"



PROPOSED RESTORATION

1"=20'-0"



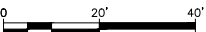
Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE
BASED ON THE NORTH AMERICAN
VERTICAL DATUM 1988 (NAVD 1988)



- NOTES:
- ALL ASPHALT/ CONCRETE SHALL BE SAW CUT TO ENSURE CLEAN EDGES.
 - LIMITS OF RESTORATION TO BE VERIFIED WITH FINAL DBF DESIGN.



- LEGEND:
- EXISTING
 - PROPOSED
 - PAVEMENT RESTORATION TYPE "A"
 - PAVEMENT RESTORATION TYPE "B"

| | | | |
|--------------|------|--------|---------|
| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | N/A |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

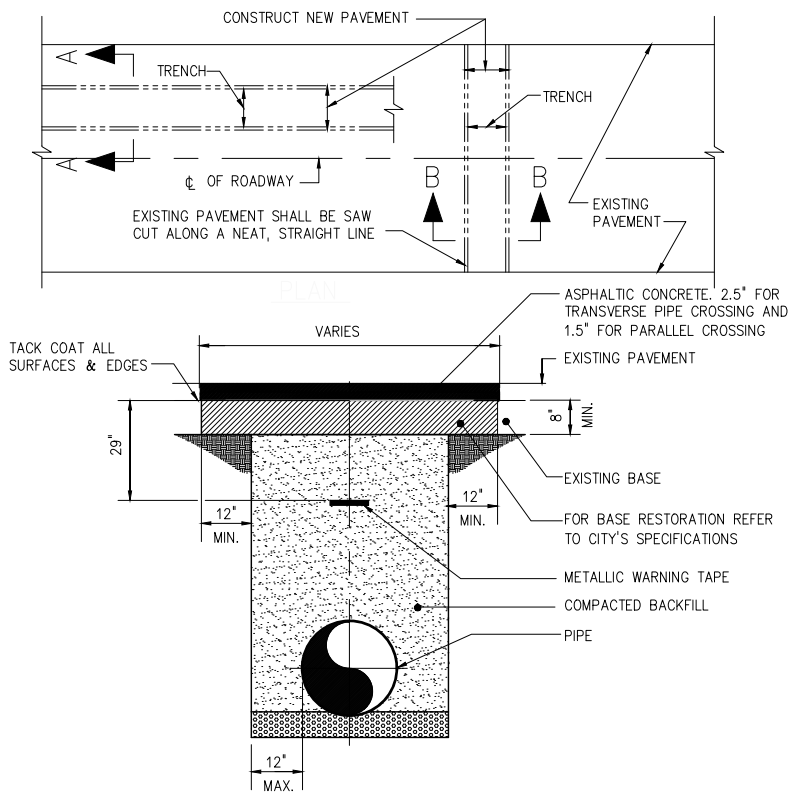
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISIONS | | DESCRIPTION | |
|-----------|------|-------------|------|
| NO. | DATE | BY | CHKD |
| | | | |
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PROJECT # 12567
PUMP STATION B-4
REDUNDANT FORCE MAIN
PAVEMENT RESTORATION DETAILS

| | |
|-----------|---------------|
| DRAWING # | SHT # |
| C10 | 19 |
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C10 |
| DATE: | 11/6/2020 |
| FILE NO. | WS-04-10 |

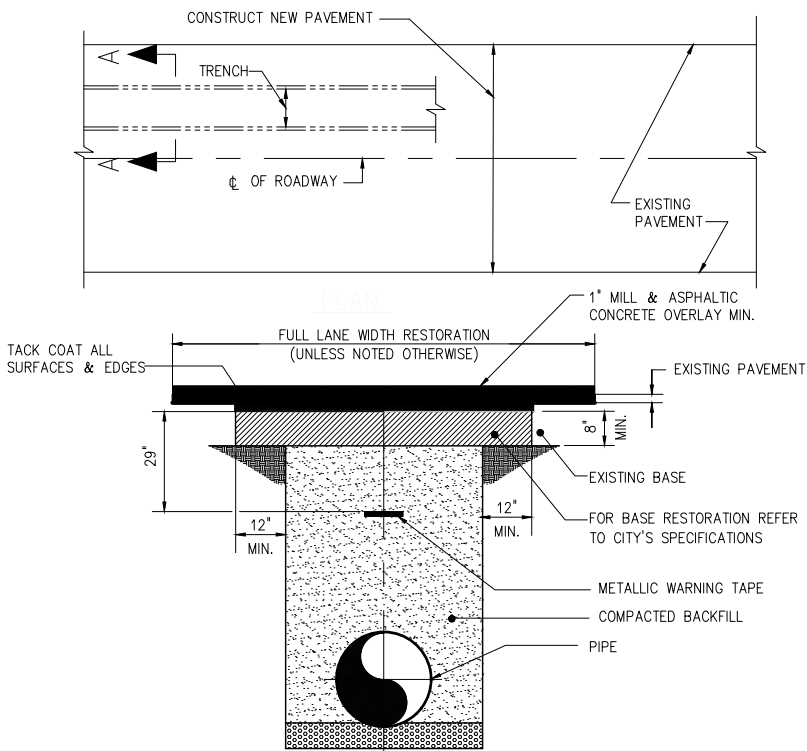


SECTION A-A (PARALLEL) & B-B (TRANSVERSE)

NOTE:
1. REFER TO THE CITY TRENCH AND PAVEMENT RESTORATION DETAILS FOR ADDITIONAL INFORMATION.

TYPE "A" TRENCH RESTORATION

NTS

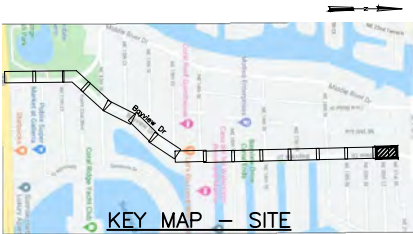


SECTION A-A

NOTE:
1. REFER TO THE CITY TRENCH AND PAVEMENT RESTORATION DETAILS FOR ADDITIONAL INFORMATION.

TYPE "B" PAVEMENT MILLING OVERLAY

NTS



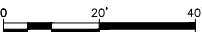
Hazen

HAZEN AND SAWYER
101 NE THIRD AVENUE, SUITE 550
FORT LAUDERDALE, FLORIDA 33301

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)



- NOTES:
- ALL ASPHALT/ CONCRETE SHALL BE SAW CUT TO ENSURE CLEAN EDGES.
 - LIMITS OF RESTORATION TO BE VERIFIED WITH FINAL DBF DESIGN.




LEGEND:

- EXISTING
- PROPOSED
- PAVEMENT RESTORATION TYPE "A"
- PAVEMENT RESTORATION TYPE "B"

| | | | |
|--------------|------|--------|---------|
| DRAWN BY: | IGA | DATE: | 11/2/20 |
| DESIGNED BY: | CLK | SCALE: | N/A |
| CHECKED BY: | OJC | | |
| FIELD BOOK: | XXXX | | |

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE



100 North Andrews Avenue, Fort Lauderdale, Florida 33301

| REVISIONS | | DESCRIPTION | |
|-----------|------|-------------|------|
| NO. | DATE | BY | CHVD |
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PROJECT # 12567
PUMP STATION B-4
REDUNDANT FORCE MAIN
PAVEMENT RESTORATION DETAILS

| | |
|-----------|-------|
| DRAWING # | SHT # |
| C11 | 20 |

| | |
|-------------------|---------------|
| TOTAL: | 20 |
| CAD FILE: | 43194-026-C11 |
| PLANTING FILE NO. | WS-04-10 |
| EXHIBIT 3 | 162 |

EXHIBIT D

EXISTING UTILITY INFORMATION

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

| Design Ticket Response Overview | | | | | | | | |
|------------------------------------|----------------------------|-------------------------|-----------------|---------------|--|--------------------|--------------------|--|
| Utility Company | Utility Type | Contact Person | Phone | | Email | Response Received? | Documents Received | Notes |
| | | | Day | Alternate | | | | |
| Broward County Traffic Engineering | Traffic Control | Robert Blount | (954)847-2745 | (954)261-4427 | rblount@broward.org | No | N/A | Information pending |
| Comcast Cable | Fiber, CATV | Leonard Maxwell-Newbold | (754)221-1254 | (954)444-5113 | leonard_maxwell-newbold@comcast.com | No | No | Information pending |
| City of Fort Lauderdale | Water, sewer | Craig Barrett | (954)828-5875 | | | Yes | As-builts | Utilities present and provided in Conceptual Design. |
| Florida Power & Light - Broward | Electric | Joel Bray | (386)586-6403 | | joel.bray@fpl.com | No | No | Information pending |
| MCI | Fiber, communication Lines | MCIU01 Investigations | (469)886-4091 | | | No | N/A | Information pending |
| Crown Castle NG | Fiber | Fiber Dig Team | 888-632-0931 x2 | | | No | N/A | Information pending |
| Teco Peoples Gas South Florida | Gas | Joan Domning | (813)275-3783 | | JDomning@tecoenergy.com | Yes | Y | Utilities present new PS B-4. Provided map. |
| AT&T Distribution | Telephone | Dino Farruggio | (561)997-0240 | | df1979@att.com | No | No | Information pending |
| Mastec | Fiber, communication Lines | | | | | Yes | Y | Clear. No utilities |

Ticket : 183004645 Rev:000 Taken: 07/01/20 13:35ET

State: FL Cnty: BROWARD GeoPlace: FT LAUDERDALE
CallerPlace: FT LAUDERDALE
Subdivision:

Address :
Street : BAYVIEW DR
Cross 1 : E SUNRISE BLVD
Within 1/4 mile: Y
Cross 2 : NE 21ST ST

Locat: NEW 24" FM FOR THE CITY OF FORT LAUDERDALE

:

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION REQUEST.

*** LOOKUP BY MANUAL ***

:

Grids : 2608A8006B 2608B8006A 2608B8006B 2608C8006A 2609D8006B

Work date: 07/01/20 Time: 13:28ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
Due Date : 07/06/20 Time: 23:59ET Exp Date : 07/31/20 Time: 23:59ET
Work type: DESIGN Boring: N White-lined: N
Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
Done for : DESIGN

Company : HAZEN AND SAWYER Type: MEMB
Co addr : 2101 NW CORPORATE BLVD
Co addr2: STE 301
City : BOCA RATON State: FL Zip: 33431
Caller : ORLANDO CASTRO Phone: 954-987-0066 Ext: 57056
BestTime: ANYTIME
Mobile : 305-978-0142
Fax : 954-987-2949
Email : OCASTRO@HAZENANDSAWYER.COM

Submitted: 07/01/20 13:35ET Oper: ORL Chan: WEB
Mbrs : BC1338 CC1279 CFL910 FPLBRO MC2278 MCIU01 NN1882 PGSND SBF23

** There aren't any Excavator comments, so the column is omitted **

| <u>Ex. Circum</u> | <u>Service Area</u> | <u>Utility Type(s)</u> | <u>Contact</u> | <u>Alt. Contact</u> | <u>Emergency Contact</u> | <u>Positive Response</u> |
|-------------------|--|-------------------------------|--|--|---|--------------------------|
| No | BROWARD COUNTY TRAFFIC ENGINEERING BC1338 | TRAFFIC CONTROL | ROBERT BLOUNT (954) 847-2745 | ALEX VICKERS (954) 847-2701 | ALEX VICKERS (954) 847-2701 | |
| No | COMCAST CABLE CC1279 | CATV, FIBER | LEONARD MAXWELL- NEWBOLD (754) 221-1254 | | USIC DISPATCH (800) 778-9140 | |
| No | CITY OF FT LAUDERDALE CFL910 | SEWER, WATER | CRAIG BARRETT (954) 828-5875 | PAUL BROWN (954) 828-7834 | JASON WALKER (954) 828-7684 | |
| No | FLORIDA POWER & LIGHT--BROWARD FPLBRO | ELECTRIC | JOEL BRAY (386) 586-6403 | | USIC DISPATCH CENTER (800) 778-9140 | |
| No | MASTEC INC MC2278 * New | FIBER | RICKIE QUINN | | JULIO OLEA (305) 803-0346 | Clear No Facilities |
| No | MCI MCIU01 | COMMUNICATION LINES, FIBER | MCIU01 INVESTIGATIONS (469) 886-4091 | NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675 | NATIONAL FIBER SECURITY DEPARTMENT (800) 624-9675 | |
| No | CROWN CASTLE NG NN1882 | FIBER | FIBERDIG TEAM (888) 632-0931 x2 | | CROWN CASTLE FIBER NOC (855) 933-4237 x1 | |
| No | TECO PEOPLES GAS SOUTH FLORIDA PGSND | GAS | JOAN DOMNING (813) 275-3783 | AARON SZACSKA (813) 557-5971 | TECO PEOPLES GAS CUSTOMER SERVICE** (877) 832-6747 | |
| No | A T & T/ DISTRIBUTION SBF23 | TELEPHONE | DINO FARRUGGIO (561) 997-0240 | USIC DISPATCH OFFICE (CLS) (800) 778-9140 | USIC DISPATCH OFFICE (CLS) (800) 778-9140 | |

Castro, Orlando J

From: Domning, Joan <JDomning@tecoenergy.com>
Sent: Friday, July 10, 2020 11:03 AM
To: Castro, Orlando J
Subject: Sunshine Ticket #183004645
Attachments: 01-Broward.doc

External Email - think before you click

Please see the attached document and map below.
Thank you,

*Joan Domning
Senior Administrative Specialist
Peoples Gas
Distribution Engineering
8416 Palm River Road
Tampa, FL 33619
Office: 813-275-3783
Ext. 53783*





Date: July 20, 2020

☐ Peoples Gas System, Inc. has no gas mains or services within the referenced area.

☐ We are returning your prints marked with Peoples Gas System, Inc. gas mains or services within the referenced area.

**THE ATTACHED DRAWINGS ARE
PROVIDED SUBJECT TO
RESTRICTIONS AND
LIMITATIONS.**

☒ We are returning a print of Peoples Gas System, Inc. gas main or services within the referenced area.

☐ Please furnish final construction plans for this job and include Peoples Gas System, Inc. in the pre-design and pre-construction meeting(s).

☒ **For further information please call: David Rivera, Gas Design Department at (954) 453-0794**

☐ Remarks:

NOTE: If a map is provided with this letter the following applies: The map is provided for convenience purpose only and is not intended to be used for detailed locations. No warranty or guaranty expressed or implied, is made as to completeness, accuracy or fitness for a particular purpose. Use of this map is at the risk of the recipient who assumes full responsibility therefor.

Please call 811, two full business days prior to construction to have the locations of the facilities field verified



IT'S THE LAW

EXHIBIT E

CADD STANDARDS

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

**CITY OF FORT LAUDERDALE PUBLIC WORKS
ENGINEERING & ARCHITECTURAL DEPARTMENT
CADD SPECIFICATIONS FOR PROJECT DRAWINGS**



CITY OF FORT LAUDERDALE

OCTOBER 2015

*THIS DOCUMENT WAS PREPARED IN THE CITY OF FORT LAUDERDALE ENGINEERING &
ARCHITECTURAL DEPARTMENT BY THE CADD STANDARDS COMMITTEE*

*THIS DOCUMENT MAY BE DOWNLOADED FROM
[HTTP://WWW.FORTLAUDERDALE.GOV/ENGINEERING/INDEX.HTM](http://www.fortlauderdale.gov/engineering/index.htm)*

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1. PURPOSE

The Engineering division provides engineering, architectural, landscaping and project management services; and has put together a set of drafting standards to be used in all computer-aided drawings. The intent is to standardize the way electronic drawing files are produced and to make all drawing files regardless of who produced them, familiar in look and content to all the production staff in the division.

Consultants are encouraged to familiarize themselves with recent existing City project files prior to commencing a project for the City of Fort Lauderdale, in order to achieve true conformity with the way drawing files are to be produced. Below are some of the criteria, **which must be followed**. This document may not cover all circumstances; therefore it is up to the consultant to secure the pertinent information to any situation that may arise in a particular case that is not covered here. All files submitted to the City shall be free of passwords or any other impediment to their free use. The City of Fort Lauderdale's Engineering Division reserves the right to direct a consultant as to the desired manner to proceed when a situation is not addressed here.

2. VERSION

- 2.1. All drawings shall be produced in an AutoCAD® based product and saved in AutoCAD® 2013 format. Software included but, not limited to:
 - 2.1.1. AutoCAD
 - 2.1.2. AutoCAD LT
 - 2.1.3. AutoCAD Civil 3D
 - 2.1.4. AutoCAD Map 3D
 - 2.1.5. Revit

Please see CADD Coordinator prior to creating drawings with software not listed.

- 2.2. Drawing files submitted will be 100% AutoCAD (dwg) format and 100% editable.
- 2.3. The current version of AutoCAD at the time these standards are established is AutoCAD 2016. These standards can only address those issues pertaining to that version of AutoCAD. If a new version of AutoCAD is released prior to revising these standards, projects shall still be submitted in AutoCAD 2013. Once the City upgrades to the newer version of AutoCAD, that version shall be the official version and at the time the City shall determine if submittals in earlier versions are acceptable. All drawing files in a project shall be saved in the same version of AutoCAD.

3. COVER SHEETS AND TITLE BLOCKS

- 3.1. The City's title block/sheet border symbol shall be used on all drawings except the cover sheet. No modifications shall be made except for values of the attributes present in the block.
- 3.2. All projects shall have a cover sheet. For the cover sheet, consultants shall use the City's cover sheet symbol. Consultants shall not make any modifications to the city's cover sheet, including renaming the block. The cover sheet shall be inserted at an XYZ scale of 1; and plotted with a final size of 36"X24" at scale 1:1, in PAPERSPACE.
- 3.3. The standard title block/sheet border shall be inserted in "paper space" and shall be inserted at an XYZ scale of 1. The viewports can be zoomed to produce the desired final scale within the viewport and will be plotted with a final size of 36X24 at scale 1:1.
- 3.4. All projects will be made to plot in a standard ARCH D 36" X 24" sheet. The City's standard title block/sheet border SHALL NOT be inserted with dissimilar 'x' and 'y' scales in order to plot in a final size other than the standard.



4. SCALES

- 4.1. All drawing plan-views and horizontal scale of profiles and cross-sections will be drawn in scale 1:1 in model space, and drawing accuracy shall be 0.01' or better. That is, on a 'DIST' inquiry between consecutive 100-foot stations on a baseline, the result should be 100.00'.
- 4.2. Details will be drawn 1:1 and then scaled in a paper space window. Certain details need to be drawn with different horizontal and vertical scales for clarity (e.g. typical roadway cross-section). There are however very few instances where it is not practical to draw details to any scale e.g. where drawings are intended to be diagrammatic or schematic; and for those instances only, a scale will not be required. Such drawings will be noted "NOT TO SCALE" or "NO SCALE".
- 4.3. Plots for projects will be produced at a scale commonly used by the engineering/architectural profession; (e.g. 1" = 20', 1" = 30', 1/4" = 1', etc). Following are examples of unacceptable scales: 1" = 27', 1" = 70', etc.
- 4.4. Vertical scale for cross-sections and profiles will be drawn to a scale in the same ratio as the final plotted product i.e.: if the final plot is horizontal 1" = 20', and the vertical 1" = 2', then the vertical scale is 10 times that of the horizontal.
- 4.5. Drawing files that are not scale relevant, like index sheet, notes and schedules, shall fill the scale attribute box with the notation "N/A". The notation "NTS" or "NOT TO SCALE" shall be left to those drawing files that are scalable, but are shown in a scale not measurable with a typical engineering or architectural scale, like details, schematics, etc.

5. EXTERNAL REFERENCES

- 5.1. Projects shall make use of external reference files (x-refs) to separate different disciplines and sub-consultants or design teams involved.
 - 5.1.1. X-ref files shall be limited to one per discipline. There shall be no more than one consultant's work into a single x-ref file i.e.: no design shall be placed directly on a survey file, or electrical design on an architectural file, etc.
 - 5.1.1.1. Within each discipline, all entities shall be drawn in the same file: line work, text, notes, dimensions, leaders, etc. shall all be placed in the same file and space (MODELSPACE). Exception: Revision clouds.
 - 5.1.2. In engineering projects, all civil work (demolition, concrete, asphalt, pavers) may be placed in one x-ref per discipline, per consultant, per building (if project is multi building), or at the discretion of the project manager may be further segregated into several x-refs.
 - 5.1.3. Larger projects that involve multiple buildings and/or sites may make use of more than 1 x-ref per discipline upon approval of x-ref list by the city.
 - 5.1.4. Details, general notes, logos, etc. SHALL not be x-referenced.
 - 5.1.5. If during the course of a project design a consultant decides to make use of x-ref for anything other than background support, the final product shall not contain x-ref and layer names with x-ref file name prefixes will not be accepted.
- 5.2. Survey information shall be in its own x-ref's (see **Base Drawing** section in these standards).
 - 5.2.1. The base drawing shall be x-referenced into all x-refs drawings.
 - 5.2.2. There shall be no duplicate base information. Footprints to be used as a base for design shall not be duplicated. Example: Two or more footprints of a building drawn side by side in an x-ref.
- 5.3. Underground utilities (more than one in a project) may be placed in a single x-ref, or each in its own.
 - 5.3.1. In underground utilities where a profile is needed, the area shall be in the same x-ref as the plan view for the profiled area.



- 5.4. Architectural projects shall also be segregated by specialty.
- 5.5. Electrical, mechanical, foundation, plumbing, roof, etc. shall be either in its own x-ref file, or grouped by sub-consultant, or design group at the discretion of the project manager.
- 5.6. X-ref files shall have no paths. Project drawing files, which contain x- refs with paths, will not be accepted. Consultants will have to strip all paths from x-refs, or initially x-ref with no paths.
- 5.7. If an x-ref is "bound" it shall be "insert" and not "bind" type of x-ref thereby no extraneous layer names are created.
- 5.8. Profiles shall be drawn in the same file as the plan view and all entities of a profile shall remain together in the same file. Line work, grid, all text, notes, leaders, etc. shall be all together.

6. BASE DRAWING

- 6.1. The base survey shall be made of 4 base files:

- #####SURV.DWG
- #####BSLN.DWG
- #####TOPO.DWG
- #####UTIL.DWG

The «#s" are place-holders for the project number. If utility markings are gathered at a later date from the original survey, then this information can be added to the «#####UTIL.DWG"

- 6.1.1. The #####SURV.DWG" file shall be the main file and the others shall be XREFED into it. This shall contain any notes which are not location sensitive, and may be moved modified, rotated to accommodate clearer design drawings.
 - 6.1.2. The #####BSLN.DWG shall contain the baselines of survey, including stationing and descriptions of points set, the lot and block, boundaries and relevant information. All survey markers, found or set.
 - 6.1.3. The #####TOPO.DWG shall contain all topography, elevations and other field collected information, not related to horizontal survey control. All survey benchmarks, descriptions and elevations shall be included in this file. Above ground evidence of utilities and any directly measured utility information, such as inverts and pipe sizes shall be included in this file.
 - 6.1.4. The #####UTIL.DWG shall contain the field location of paint marks, stakes or other utility markings, which indicate the presence of an approximate location of underground utilities. Test holes or borings shall also be included. Any other inferred or extrapolated locations shall also be placed in this file.
 - 6.1.5. Any issues not clearly covered in this paragraph shall be referred to the city surveyor for clarification prior to the commencement of any survey work.
- 6.2. Topographical surveys in AutoCAD format shall not be cut or disseminated into several files in order to create individual sheets.
- 6.3. Topographic survey files shall not have parts deleted because proposed project does not cover those portions. In that case open a paper space window that will show just the portion of survey needed or use XCLIP.



- 6.4. Topographic surveys SHALL NOT BE MOVED SPATIALLY within the drawing file, nor shall the consultant or city staff, change the coordinate system to anything other than what was received from survey, UNDER ANY CIRCUMSTANCE. If a consultant furnished the survey it shall be in 'WCS' and the survey shall have the north at 12 o'clock.
- 6.5. Files of topographic survey shall only have topographic information. These files shall be x-referenced into a new file where the proposed project will be designed.
- 6.6. The base topographical survey file shall be produced in several files, x-referenced, one within the other. This will make possible to make adjustments to some aspects of the file without the possibility of making changes to the more critical parts of the survey. The following paragraph is a description of what each file holds and a procedural explanation on how to create such a file. It is not intended directly to the designer, but to the survey personnel responsible for creating the survey base file.
- 6.7. In projects that use a base drawing other than a survey, like an architectural project of plant facility, all disciplines shall make use of a common base drawing, inserted as an x-ref. If there is an update then it is simple to update drawings from all disciplines. No design group shall take the base drawing and modify it in any manner. Through the use of x-referencing, all permitted changes (layer color, line type, etc.) can be accomplished.

7. UNITS

- 7.1. Engineering projects shall use:
 - 7.1.1. Decimal as linear units at all times.
 - 7.1.2. Angular units shall be surveyor (bearings) units.
 - 7.1.3. Angles shall be measured counter-clockwise and 0 shall be to the east.
- 7.2. Architectural projects shall use:
 - 7.2.1. Architectural units.
 - 7.2.2. Angular units shall be degrees, minutes, seconds.
 - 7.2.3. Angles shall be measured counterclockwise and 0 shall be to the right (east).
 - 7.2.4. 1" grid, and entities snap to the grid.
- 7.3. Dimensions shall:
 - 7.3.1. Have a scale factor of 1
 - 7.3.1.1. The scale factor may be changed to 12 or 1/12 when integrating engineering and architectural line work; example site plans, or architectural details displayed in an engineering drawing with decimal units.
 - 7.3.1.2. The scale factor can also be changed to 1/10 in profiles that are drawn 10 times larger vertically than horizontally. Accuracy for plan view design in water, sewer, storm and site electrical projects can be 0.1'.
 - 7.3.2. Precision of 0.01' for decimal units and 1/8 for architectural units, with the default value displayed.



8. SYMBOLS & ENTITIES

- 8.1. *Blocks will be issued* with the most common symbols used in City projects. From time to time these symbols will be revised and/or new symbols will be added. If for any reason there is a need to create a block either for local use or to keep for future projects, that block shall comply with all City CAD standards.
- 8.2. Standard issue symbols shall NOT be exploded, renamed or changed in any way. Objects that are repeated throughout and/or that are depicted in an exaggerated scale for clarity (fire hydrants, power poles, catch basins, street lamps, etc.) shall be represented by a symbol. If a symbol CAN be used it SHALL be used.
- 8.3. Whenever possible, make use of the City's standard symbols and blocks. If a new symbol or block is created, it shall be submitted to the City for approval. Approved symbols and blocks will be made part of the City's symbols library, royalty free. North arrows, graphical scales, logos, location maps and other similar symbols shall be inserted as blocks and left unexploded.
- 8.4. Consultants may insert their company logo or identification information in the form of a block (symbol) and left unexploded. This block can be placed in all sheets including the cover sheet within the drawing area of each sheet.
- 8.5. Dimensions shall be associative at all times and left at their default value, and shall NOT be exploded.
- 8.6. Hatch patterns shall NOT be exploded. Hatch patterns and closed polylines forming the hatch boundary shall be the only entities permitted on hatch layers.

9. PAPERSPACE

- 9.1. Paper space shall be used for title block/sheet border and viewports. No other entities shall be placed there, especially notes that describe parts of model space entities (notes with a leader). Exceptions: logos, captions, legends, general notes and revision clouds.
- 9.2. Title block/sheet borders or cover sheets shall NOT be x-refed.
- 9.3. All drawing entities will be confined within the sheet border. Extents of the drawing files shall be to the edge of title block/sheet border. Multiple layouts are permitted, however only one sheet border per layout is allowed.

10. COLORS AND LINE WEIGHTS

- 10.1. The City will provide a line weight chart (CTB) to be used.
- 10.2. Submitted drawings shall make use of one of the city's templates, which have the "Layout" page setup, configured with the city's configuration files (PC3, CTB and PMP).
- 10.3. All entities shall be located in their appropriate layer, and have a color and line type "BYLAYER". The ONLY exception to this rule is a Utility XREF drawing (e.g.: 10272XREFUTIL) where the color of the layers continues to be "BYLAYER", but different line types may be used in the same layer to identify different utility types and sizes.
- 10.4. Colors are not fixed to layers; they are dependent on the discipline. When entities for a particular discipline need to be displayed in drawing files for other disciplines, colors may be setup differently in



order for features to stand out. E.g. Survey drawings will show survey features solid and stand-out. The same survey features will look dimmed in landscape drawings.

- 10.5. The project manager shall be the final judge of the plotted appearance of the drawings. Consultant shall furnish a printed copy of all drawing files using the City's line weight chart (CTB) file for color approval by the City.
- 10.6. There are certain entities which make use of custom line types, and that rely on the line type to be identified. If the line type is changed, then the entity loses its identity. Examples are fences: they can make use of a custom line type that identifies them. These entities can be placed in a layer with a different line type and the identity of the fence is preserved. For these cases, it is permissible to make these entities non- ByLayer. There are other examples in electrical drawings.

11. FONTS

- 11.1. Since fonts are not carried with the drawing files and depends on the computer that is running AutoCAD to find and use these font files. No third party or proprietary fonts shall be used. Drawing files shall not make use of SHAPE files.
- 11.2. It is possible to automatically substitute fonts not found in the AutoCAD path. The City may (at their discretion) substitute odd fonts with ROMANS.SHX.

12. LAYERS

- 12.1. The engineer or technician working on the project must determine what color to use from the "LINE WEIGHTS AND GREY SCALE CHART" supplied by the City, in order to get the desired effect, and the City will give the final approval.
- 12.2. The list of layer names used in all City of Fort Lauderdale projects is a separate document in the form of a MS Excel spreadsheet.
- 12.3. The City of Fort Lauderdale Engineering Division adheres for the most part (but not totally) to the CAD Layer Guidelines and has adopted the long format; it has up to 16 alphanumeric characters, and is divided in fields or groups.

X-XXXX-XXXX-XXXX

Above is an example of the format, also known as the 1-4-4-4.

- 12.4. The City will provide a list of layer names to be used. If there is a project for which there are no layer names (which pertain to that discipline), the consultant shall provide a list of proposed layer names based on the layer guidelines, for the City's approval, prior to their use. Once approved by the City, those layer names will become part of the City's list of layer names for all projects thereon or until revised.
- 12.5. No layer names, other than those in the City's layer name list, will be present in drawing files. Exceptions are those layer names automatically created by AutoCAD; "0", "DEFPOINTS", "ASHADE".



- 12.6. Layering:**
- 12.6.1.** All text, labels, mtext, etc. that is placed in paper space shall be in layers: #-SHBD-TEXT and/or #-SHBD-NOTE;
 - 12.6.2.** Consultants' logo shall be placed in layer #-SHBD-LOGO;
 - 12.6.3.** Viewports shall be placed in layer: #-SHBD-VPRT;
 - 12.6.4.** General line work in paper space like lines to separate areas or viewports, etc. shall be placed in layer: #-SHBD.
 - 12.6.5.** All general text shall be placed in a single layer, unless there is a justification for the contrary.
 - 12.6.6.** North arrows and graphic scales shall be placed in layer: #-SHBD-NARW.
 - 12.6.7.** Leaders shall be placed in a "TEXT" or "NOTE" layer together with the accompanying text.
- 12.7.** Layer names that duplicate the discipline and the major group shall not be used. Examples are: E-ELEC, D-DEMO, H-HVAC, 1-INST, F-FIRE, Q-EQPM.
- 12.8.** Details, sections elevations, do not in general need layer management. Since there is seldom layer manipulation (on, off), the minor group names that distinguish line weight were created. The City uses the discipline, major group designating the object to draw (DETL, SECT, ELEV, etc) and then the minor group designating the line weight. The minor group names are: XFIN, FINE, MEDM, HEVY AND XHEV.

13. GENERAL ISSUES BEFORE SUBMITTAL

- 13.1.** Complete drawing set (DWG) shall be submitted no later than the 60% project submittal for design review and fully compliant with the City's CAD standards' drawing set shall be submitted prior to submittal to the building department for permit. All drawing files shall have all tabs (layouts) zoomed to EXTENTS, prior to any submittal to the City, whether it is the final or a working submittal; XREF drawing files shall be saved with the model tab active and zoomed to EXTENTS. All other drawing files shall be saved with the first paper space layout tab active. All final files shall be fully purged prior to submittal. All files shall be saved and submitted with the current layer set to "0".
- 13.2.** Consultants shall obtain a file number for the project and make sure that the appropriate information is completed in the title block. File numbers can be obtained from the Project Engineer.
- 13.3.** Consultants shall fill in total number of sheets in the title block, prior to final submittal of drawing files.
- 13.4.** Consultants shall submit a hardcopy (bond, 36" X 24"), DWG and PDF files of the project drawings together with any submittal in electronic format (CD, etc), when making partial and final submittal of drawing files. Prior to all submittals, consultants shall coordinate with the City's file room as to the method of creating PDF files, which will make prints satisfactory to the City. All files submitted to the City shall be free of passwords or any other impediment to their free use. PDFs shall be combined into a single file. Sheets shall be oriented landscape with the title block to the right of the screen, arranged in the order that they are to be printed and the set assembled matching the drawing index order. The PDF binder shall contain bookmarks for all of the sheets, displaying the name of each plot file as described in paragraph 70.
- 13.5.** DWG AutoCAD files shall not be compressed using zip or rar or any other compression scheme when submitting files in an optical media (CD, DVD).



- 13.6.** Submittals via FTP sites are not official submittals; and optical media (CD, DVD) is required.
- 13.7.** When a project is assigned to a consultant who utilizes the collaboration of other sub-consultants, said prime-consultant shall be responsible for all submittals of drawing files and plot files. Said submittals shall be in the form of a single media (1 CD/DVD) to include the entire project.

14. MISCELLANEOUS

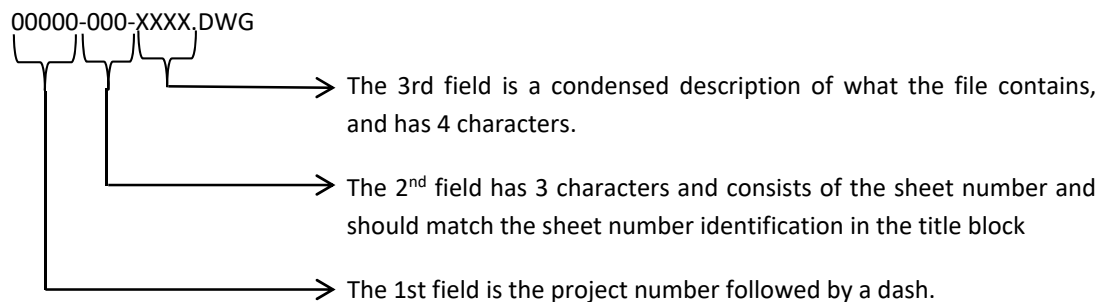
- 14.1.** "MTEXT" (multiline text) shall be used in all cases where more than one line of text occurs and where leaders are used.
- 14.2.** These standards are a detailed description of aspects in the creation of drawing files within Engineering. It is by no means the complete description of all the methods used, and it is the consultant's responsibility to alert the City of any point or situation which is not described in these specifications, and which should be addressed. Also if a consultant, after reading these standards and prior to commencing any drafting work, feels that there are points or items in these standards which are not logical, or are onerous to abide by, they should notify the City's Engineering Division at their earliest convenience and their views will be open to discussion.
- 14.3.** This document does not address layer colors or line weights. The consultant shall coordinate with the City's project manager on how these items are treated.

15. DWG FILE NAMES

- 15.1.** All drawing files shall conform to the City of Fort Lauderdale's file naming convention, as described in the following pages. The names shall be accurate to reflect the desired information as per the naming convention. All file names shall be CAPITALIZED.

- 15.2.** The City of Fort Lauderdale Engineering Division has adopted the following file naming convention for project drawings:

- 15.2.1.** The format for single layout drawing files looks like this:



- 15.2.2.** The first field represents the project number.

- 15.2.3.** The second field represents the sheet number and reflects the sheet number as shown in the title block. If sheet numbers have dashes or dots, they shall be stripped: example for C-11, use C11. Drawing sheets shall not be numbered using the ConDoc system (i.e. A1.01, A1.02, A2.01, A2.02).

- 15.3.** The third field is a 4-letter description of what the project drawing file depicts. There is a list of descriptions used in previous projects. Consultant shall check the list prior to creating a new description. The City will need to approve descriptions prior to their use.



15.4. This proposed 3-field format is only for files that contain final drawing with 1 title block/sheet border.

15.5. Examples for this naming format are the following:

- **09585-001-WATR.DWG**
- **10256-021-SEWR.DWG**
- **10855-M10-HVAC.DWG**
- **10325-A01-PLAN.DWG**

15.6. A drawing index should appear on the cover sheet. If there are too many sheets in the set of drawings to fit on the cover sheet, a separate index sheet or sheets shall be included immediately following the cover sheet. When index sheets are utilized the drawing file name shall be 00000-001-INDX.DWG. The first five digits shall be the project number and the next three digits shall be (001), (002), etc. An example is:

- **10325-001-INDX.DWG indicating the first index sheet.**
- **10325-002-INDX.DWG indicating the second index sheet.**

15.7. X-ref files will have a slightly different format. It will have 3 fields, and will look like this:
OOOOOXREFXXX.DWG

15.7.1. The 1st field (5 characters) will be the project number; the second field shall be the word "XREF". The third field shall be a 4-character description for the file or discipline found in the file. This convention is valid for all XREFS except for the survey XREFS. These shall remain as received by the survey department.

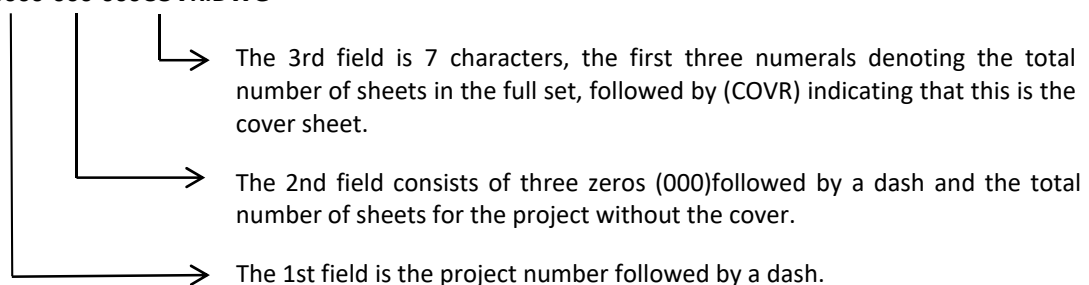
15.7.2. Sheets shall be numbered in a sequential manner and there shall not be any voids in the numbering for any given discipline. All numbering shall start with "1", regardless of the numbering system used, except for the cover sheet which is "0". Example: 1,2,3,4, or A01, A02, A03, BUT NEVER A01, A02, A05.

15.8. The Cover Sheet will follow this drawing naming convention with one small exception. The drawing files will contain additional characters denoting the total number of sheets in a project set, including all disciplines.

15.9. The total number of sheets shall NOT include the cover sheet.

15.10. The format for the coversheet drawing files looks like this:

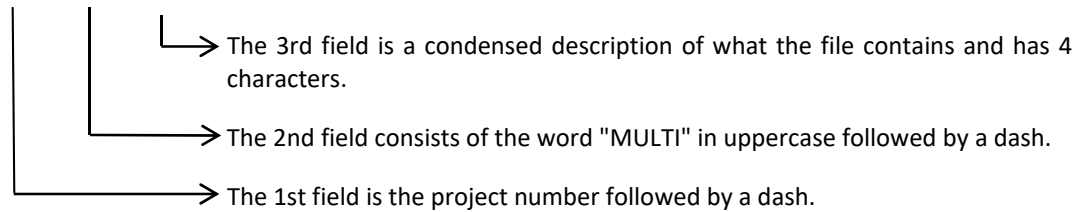
00000-000-000COVR.DWG





15.10 For drawing files that contain multiple layouts, the files shall be named as follows:

00000-MULTI-XXXX.DWG



Examples for this naming format are the following:

- **XXXXX-MULTI-DETL.DWG: detail sheets.**
- **XXXXX-MULTI-ELEC.DWG: Electrical sheets.**

15.11. Layout Tab names shall be named with the sheet number and an optional description for the sheet content.

15.12. Additional drawing descriptive information may be placed in comments section of the file "properties" of the drawing file. Access this by right-clicking the file and selecting properties then the "summary" tab.

15.13. Names for sheet description to be used as the third field for file names:

| | |
|------|--|
| BSRV | Boundary Surveys |
| COVR | Cover Sheets |
| DEMO | Demolition |
| DETL | Details |
| ELEV | Elevations |
| EQPM | Equipment |
| FLOR | Floor Plans |
| GRAD | Paving and grading |
| INST | Instrumentation |
| IRRG | Irrigation |
| KMAP | Key map |
| LEGN | Legend, symbols and schedule sheets |
| LITE | Lighting plans |
| MOTP | Maintenance of traffic plans |
| NAID | Navigational Aids |
| NOTE | General Notes |
| PILE | Piles |
| PLAN | Plan and profile sheets |
| PLNT | Plant material |
| PLUM | Plumbing |
| POWR | Power |
| RISR | Riser diagrams |
| RNWX | Runway |
| ROAD | Roadway projects incl. Widening, narrowing, special projects |
| SECT | Cross Sections |
| SSWR | Sanitary sewer lines |
| SGNL | Signalization |
| SIGN | Sign project files |
| SITE | Site-plans |
| STRM | Storm water (drainage) |
| STRP | Pavement Striping |
| TSRV | Topographic Surveys |
| TXWY | Taxiway |
| WALK | Sidewalk project file (asphalt or concrete or other) |
| WATR | Potable water lines |



16. PDF FILE NAMES

Note: Project Manager: Please refer to Memo No. 11-06 for the new procedure for submitting electronic drawings and documents to the Plans Room. The date format YYYYMMDD shall be used when needed.

XXXXX <- Project number

PERMIT <- Sub Folder

16.1. **Permit drawing PDF naming:**

- 16.1.1. XXXXX-DRC-BINDER-date.PDF
- XXXXX-P&Z-BINDER-date.PDF
- XXXXX-PERMIT-BINDER-date.PDF

16.2. **Bid drawing PDF naming:**

- 16.2.1. XXXXX-BID-SPEC-date.PDF
- XXXXX-BID PLANS-BINDER-date.PDF
- XXXXX-BID ADDENDUM1-SPEC-date.PDF
- XXXXX-BID ADDENDUM1-BINDER-date.PDF
- File as many addendums as needed

16.3. **Final Permit Construction plan naming:**

- 16.3.1. XXXXX-CONSTRUCTION-BINDER-date.PDF
- XXXXX-REV1-CONSTRUCTION-BINDER-date.PDF
- File as many revisions as needed*
- XXXXX-FIELD CHANGE-BINDER-date.PDF
- File as many changes as needed*

16.4. **AS BUILT –SETS**

- XXXXX-ASBUILT-BINDER-date.PDF

16.5. **DRAWING-SETS**

- File all the CADD drawings

16.6. **ARCHIVES**

- File all project files from the Z: drive (Project manager to coordinate with CAD Manager)



17. STANDARDS SPECIFIC TO ARCHITECTURAL PROJECTS

17.1. Drawings scales are to be as follows:

17.1.1. LTScale=1

17.1.2. PSLTScale=1=on

17.1.3. Precision=1/8"

17.2. Snap Grid settings:

17.2.1. 1/16"=1'-0" scale to 3/8"=1'-0" scale drawings to be drawn with a maximum snap of 1".

17.2.2. 1/2"=1'-0" scale to 3"=1'-0" scale drawings to be drawn with a maximum snap of 1/8".

17.2.3. All drawings shall be created with SNAP ON.

17.3. Dimensions:

17.3.1. Associative DIMASSOC=1.

17.3.2. Dimensions shall not be forced without prior approval from the CAD Administrator.

17.3.3. Dimstyles have been established in the "CFLSTDARCH2007.dwt" file. Dimstyles are to be used as defined and are not to be modified under any circumstances.

17.3.4. Dimension Round-off:

17.3.4.1. 3/8" scale and less round off to 1/2"

17.3.4.2. 1/2" scale to 3" scale round off to 1/8"

17.3.4.3. Fractions to be diagonal stacked when used in conjunction with a whole number (i.e. 3") and not stacked when used as a stand-alone fraction (3/4"). The text sizes of diagonal stacked fractions are to be 75%. The text sizes of non-stacked fractions are to be 100%.

17.4. Drawings sheets shall be:

17.4.1. Numbered sequentially using the traditional numbering system (i.e. A-1, A-2, A-3).

17.4.2. Drawing sheets shall not be numbered using the ConDoc system (i.e. A1.01, A1.02, A2.01, A2.02). This applies to all engineering disciplines within a set of drawings.

17.5. Text heights – see next page:



ARCHITECTURAL AND LANDSCAPING TEXT FONTS AND HEIGHTS

| DRAWING SCALE | TEXT HEIGHT | | | | | DIMSTYLE |
|---------------|-------------------|------------------------|------------------------------|------------------------------|----------------|----------|
| | Notes (Romans) | Room Names (Romans) | Small Title's (Swis721BT) | Large Title's (Swis721BT) | Title Polyline | |
| 1/16" | 16" | 24" | 48" | 64" | 8" | ARCH 192 |
| 3/32" | 10 2/3" | 16" | 32" | 42 2/3" | 5 1/3" | ARCH 128 |
| 1/8" | 8" | 12" | 24" | 32" | 4" | ARCH 96 |
| 3/16" | 5 1/3" | 8" | 16" | 21 1/3" | 2 2/3" | ARCH 64 |
| 1/4" | 4" | 6" | 12" | 16" | 2" | ARCH 48 |
| 3/8" | 2 2/3" | 4" | 8" | 10 2/3" | 1 1/3" | ARCH 32 |
| 1/2" | 2" | 3" | 6" | 8" | 1" | ARCH 24 |
| 3/4" | 1 1/3" | 2" | 4" | 5 1/3" | 2/3" | ARCH 16 |
| 1" | 1" | 1 1/2" | 3" | 4" | 1/2" | ARCH 12 |
| 1 1/2" | 2/3" | 1" | 2" | 2 2/3" | 1/3" | ARCH 8 |
| 3" | 1/3" | 1/2" | 1" | 1 1/3" | 1/6" | ARCH 4 |
| Paper Space | 1/12" | 1/8" | 1/4" | 1/3" | 1/24" | ARCH 1 |

| DRAWING SCALE | TEXT HEIGHT | | | | | DIMSTYLE |
|---------------|-------------------|------------------------|------------------------------|------------------------------|----------------|----------|
| | Notes (Romans) | Room Names (Romans) | Small Title's (Swis721BT) | Large Title's (Swis721BT) | Title Polyline | |
| 1"=10' | 10" | 15" | 30" | 40" | 5" | ARCH 120 |
| 1"=20' | 20" | 30" | 60" | 80" | 10" | ARCH 240 |
| 1"=30' | 30" | 45" | 90" | 120" | 25" | ARCH 360 |
| 1"=40' | 40" | 60" | 120" | 160" | 20" | ARCH 480 |
| 1"=50' | 50" | 75" | 150" | 200" | 25" | ARCH 600 |
| 1"=60' | 60" | 90" | 180" | 240" | 30" | ARCH 720 |
| Paper Space | 1/12" | 1/8" | 1/4" | 1/3" | 1/24" | ARCH 1 |

Fort Lauderdale Cad Standards Addendum

The following is based on a meeting between George Brown (Hazen) and Craig Barrett (Fort Lauderdale) on August 2, 2016.

The team agreed to the following relative to CAD Standards:

- Setup all details for 8.5" x 11" title blocks (portrait orientation)
- Save each detail as a DWG file
- One detail per sheet (this may be adjusted by the detail developer based on their judgement)
- Detail file naming convention as follows:

XXXX### - Brief Description.DWG

Where:

XXXX = Detail Category (up to 4 letters); see Table 1

= Three-character detail number (starting at 001 and numbered consecutively)

Brief Description = Brief wording describing detail contents

Table 1: Detail Categories

| XXXX | Description |
|------|--|
| GNRL | General Notes, General Details |
| ROAD | Roadway, curb, sidewalk, paving, and signs |
| WATR | Water |
| SSWR | Sewer (including lift stations) |
| RUSE | Reclaimed Water |
| GREN | Green Infrastructure |
| STRM | Stormwater |
| ESC | Erosion and Sediment Control |
| MECH | Mechanical |
| STRU | Structural |
| ARCH | Architectural |
| ELEC | Electrical |
| INST | Instrumentation |
| HVAC | Heating, ventilation and air conditioning |
| LAND | Landscaping |
| PLUM | Plumbing |

- Layers for details shall be as follows:
 - C-ANNO-TTLB
 - C-DETL-CNTR
 - C-DETL-DIMS
 - C-DETL-HIDE

- C-DETL-XFIN (for extra fine linework)
- C-DETL-FINE (for fine linework)
- C-DETL-MEDM (for medium linework)
- C-DETL-HEVY (for heavy linework)
- C-DETL-XHEV (for extra heavy linework)
- C-DETL-PATT (for hatch patterns)
- C-DETL-TEXT (for text and notes)
- Lineweights will be controlled by named plot styles (STB file).
- City provided 8.5"x11" title block (portrait orientation) will be used. It was agreed to implement all details using a portrait orientation title block.

EXHIBIT F

CONSENT ORDER

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

October 12, 2020

Dean J. Trantalis, Mayor
City of Fort Lauderdale
City Hall
100 N. Andrews Ave.
Fort Lauderdale, FL 33301
DTrantalis@fortlauderdale.gov

Re: Executed Amended Consent Order
OGC File No. 16-1487
Broward County

Dear Mayor Trantalis:

Enclosed for your implementation is the fully executed Amended Consent Order in the above-styled case. This copy is for your records. Please be mindful of all required deadlines within the Order to ensure compliance.

Your cooperation in this matter is appreciated.

Sincerely,



Jason Andreotta
Director, Southeast District
Florida Department of Environmental Protection

Enclosure: Amended Consent Order

ec: Chris Lagerbloom, City of Ft. Lauderdale, CLagerbloom@fortlauderdale.gov
Raj Verma, City of Ft. Lauderdale, RVerma@fortlauderdale.gov
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| | |
|---|--|
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| Zara Mansoor, FDEP, SED, | Zara.Mansoor@FloridaDEP.gov |

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

| | | |
|------------------------------|---|----------------------|
| STATE OF FLORIDA, DEPARTMENT |) | IN THE OFFICE OF THE |
| OF ENVIRONMENTAL PROTECTION |) | SOUTHEAST DISTRICT |
| |) | |
| v. |) | OGC FILE NO. 16-1487 |
| |) | |
| CITY OF FORT LAUDERDALE |) | |
| _____ |) | |

AMENDED CONSENT ORDER

On September 27, 2017 Consent Order OGC File No. 16-1487 (First Order) between the State of Florida Department of Environmental Protection (Department) and City of Fort Lauderdale (Respondent) became final and effective. This Amended Consent Order (Amended Order) is entered into between the Department and Respondent to reach settlement of certain matters at issue between the Department and the Respondent. This Amended Order supersedes and replaces the First Order.

The Department finds and the Respondent neither admits nor denies the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes (F.S.), and the rules promulgated and authorized in Title 62, Florida Administrative Code (F.A.C.). The Department has jurisdiction over the matters addressed in this Amended Order.

2. The Respondent is a municipal corporation in the State of Florida and a person within the meaning of Section 403.031(5), F.S.

3. The Respondent is the owner and is responsible for the operation of the following:

a) The G.T. Lohmeyer Wastewater Treatment Plant, a 56.6 million gallons per day, pure oxygen activated sludge facility with secondary effluent disposed of via 5 deep injection wells (Facility). The Facility is operated under Wastewater Permit No. FLA041378-014 (Permit), which was issued by the Department on May 4, 2016, and will expire on September 6, 2021. The Facility is located at 1765 SE 18th Street, Fort Lauderdale, Florida, 33309, in Broward County, Florida (Property). The Respondent owns the Property on which the Facility is located.

b) The domestic wastewater collection and transmission system (Collection System) serves the Respondent and its customers. The Collection System delivers the collected wastewater to the Facility for treatment and disposal.

4. The Department makes the following findings of fact and conclusions of law to which the

Respondent neither admits nor denies:

a) During the periods from January 1, 2014 to August 31, 2017 and December 10, 2019 to February 14, 2020, the City released untreated wastewater from the Collection System into surface waters and/or groundwaters of the State as follows:

| Date | Volume (gallons) |
|-----------|------------------|
| 02/05/17 | 123,041 |
| 4/28/17 | 1,500 |
| 4/30/17 | 1,350 |
| 5/19/17 | 9,874 |
| 5/26/17 | 154,270 |
| 6/14/17 | 3,000 |
| 6/19/17 | 3,900 |
| 6/30/17 | 3,000 |
| 8/4/2017 | 2,000 |
| 8/28/2017 | 100,000 |
| 8/30/2017 | 1,000 |
| 8/31/2017 | 23,730 |

| Date | Volume (gallons) |
|----------|------------------|
| 12/30/16 | 17,460 |
| 12/19/16 | 145,887 |
| 12/17/16 | 2,545,560 |
| 12/01/16 | 4,820 |
| 07/18/16 | 79,800 |
| 06/23/16 | 10,620,000 |
| 06/23/16 | 3,217,501 |
| 6/23/16 | 852,499 |
| 06/22/16 | 1,000 |
| 03/18/16 | 94,828 |
| 02/16/16 | 1,820,000 |
| 02/14/16 | 1,000 |
| 01/07/16 | 6,525 |

| Date | Volume (gallons) |
|----------|------------------|
| 10/29/15 | 177,250 |
| 10/26/15 | 100,965 |
| 10/23/15 | 279,930 |
| 10/20/15 | 13,500 |
| 10/14/15 | 1,000 |
| 10/08/15 | 2,000 |
| 09/28/15 | 76,308 |
| 09/20/15 | 2,000 |
| 09/06/15 | 10,000 |
| 08/19/15 | 8,000 |
| 07/31/15 | 3,600 |
| 07/05/15 | 5,000 |
| 06/29/15 | 3,335 |
| 05/09/15 | 50,400 |
| 04/30/15 | 25,000 |
| 01/26/15 | 1,500 |
| 01/22/15 | 12,900 |

| Date | Volume (gallons) |
|----------|------------------|
| 12/22/14 | 73,815 |
| 11/16/14 | 4,200 |
| 07/16/14 | 46,575 |
| 07/10/14 | 24,480 |
| 05/18/14 | 212,500 |
| 05/06/14 | 4,000 |
| 03/31/14 | 1,600 |

| <u>Date</u> | <u>Volume (gallons)</u> |
|-----------------|-------------------------|
| <u>12/10/19</u> | <u>35,400,000</u> |
| <u>12/20/19</u> | <u>77,570,000</u> |
| <u>12/21/19</u> | <u>769,533</u> |

| | |
|-----------------|-------------------|
| <u>12/27/19</u> | <u>154,600</u> |
| <u>12/30/19</u> | <u>44,620</u> |
| <u>12/30/19</u> | <u>8,075</u> |
| <u>1/30/20</u> | <u>84,720,000</u> |
| <u>2/14/20</u> | <u>20,520,000</u> |

The Department finds that the foregoing releases in Paragraph 4(a) violate Rules 62-604.130, 62-330 and 62-302, F.A.C., as well as Section IX, General Condition 5 of Wastewater Permit No. FLA041378-014 and Part I.D. of Phase I Municipal Stormwater Permit No. FLS000017-004. Furthermore, the releases from December 10, 2019 violate Consent Order OGC Case No.: 16-1487.

5. This Amended Order has been entered into by the Respondent for the purposes of settlement only. Accordingly, neither the recitals nor the Department's findings in this Amended Order, nor the terms and conditions of this Amended Order, nor the Respondent's compliance with those terms and conditions, shall be construed in any legal or administrative action, proceeding or litigation, as an admission that the Respondent has violated any statute, regulation, or ordinance or has otherwise committed a breach of any duty at any time, or of any fact, inference or conclusion of law.

Having reached a resolution of the matter, the Respondent and the Department mutually agree, and it is hereby **ORDERED**:

6. Respondent shall comply with the following corrective actions within the stated time periods:

a) No later than February 28th, 2018, the Respondent shall replace approximately 1900 linear feet (lf) of 12" diameter force main at high risk of failure along Las Olas Blvd. The cost of this project is estimated at \$1,500,000.00.

b) No later than May 31st, 2018, the Respondent shall replace approximately 11,620 lf of failing 30" diameter force main that connects Repump Station A, located on Sistrunk Blvd, to the force main located at the intersection of SW 6th Ave and 7th St. The cost of this project is estimated at \$8,700,000.00.

c) No later than September 30th, 2020, the Respondent shall complete the pump station rehabilitation and replacement projects listed in *Exhibit A: Phase I Projects*, in order to facilitate existing flows capacity and future projected increase in demands.

d) No later than September 30th, 2020, the Respondent shall complete the infiltration/inflow (I/I) projects listed in *Exhibit B: Phase I Projects*, in order to reduce flows and lower

peak demands and stresses on the system during rain events.

e) No later than September 30th, 2026, the Respondent shall complete the following force main rehabilitation projects listed in ***Exhibit C of Phase II Projects***, in order to repair and/or replace the infrastructure with the highest risk of failure.

f) **Existing Schedule:** Within 90 days of September 27, 2017, the Respondent shall provide to the Department the existing schedule for repair, upgrade, or replacement of existing Collection System assets during the next 2 years, including schedules for repair, upgrade, or replacement of the existing force mains, gravity mains, isolation and other control valves, air release valves, access and conflict manholes, and pump stations.

g) **Mapping Plan:** Within 9 months of September 27, 2017, the Respondent shall submit a Plan to the Department for review and comment detailing how the Respondent will develop a complete map of the existing Collection System within the City's geographic boundaries, including all existing or in-construction force mains, gravity mains, isolation and other control valves, air release valves, access and conflict manholes, pump stations, and directional flow routes of each of these components to pump stations and the receiving Facility. The Department will provide comments on the Mapping Plan within 30 days of submittal by Respondent. Mapping will include both existing and under-construction components. Directional flows, including flows to any alternate Facility not belonging to the Respondent, will be shown on the maps. Inactive mains and related appurtenances with shut-off valves should be illustrated and highlighted to define their unique operationally inactive status. Maps will be maintained in such a manner that they can be accessed quickly and easily by maintenance and repair crews at all times and from multiple locations, to facilitate prompt and efficient responses to emergencies. As new construction is completed, the Respondent will incorporate as-built drawings of the new components into the maps. Within 21 months of September 27, 2017, the Respondent shall certify to the Department in writing that mapping is complete in accordance with the terms of this paragraph. Respondent shall contemporaneously provide the Department with a description of the storage and retrieval methods and the availability of the maps to City field staff.

h) **Force Main Condition Assessment:** Within 10 months of September 27, 2017, the Respondent shall submit to the Department for review and comment a plan for completing an assessment of the current condition of all force mains in the collection system within the Respondent's jurisdiction, in sufficient detail that the resulting assessment can be used to schedule improvements of aging or deteriorating pipes, connections, valves, and appurtenances. The plan shall include the methods to be used and a schedule for conducting the assessment. The Department will provide comments on the Force Main

Condition Assessment within 30 days of submittal by Respondent. The final completion date for the assessment shall be no later than 18 months from the date of Respondent's receipt of Department comments on the plan. Within 60 days of completion of the assessment, the Respondent shall submit to the Department a report summarizing the results of the condition assessment.

i) **Asset Management and CMOM Program Development Plan:** Within 11 months of September 27, 2017, the Respondent shall submit for Department review and comment a plan to develop an Asset Management and Capacity, Management, Operations and Maintenance Program (AM and CMOM Program). The Department will provide comments on the AM and CMOM Plan within 30 days of submittal by Respondent. The plan shall describe how the Respondent will develop the AM and CMOM Program, including the items required in Subpara. 6(k) below, and follow the Environmental Protection Agency's (EPA) guidance in the following references, available along with additional references via www.epa.gov:

- EPA 305-B-05-002, *Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems*
- EPA 816-F-08-014, *Asset Management: A Best Practices Guide*

j) **Capacity Evaluation:** Within 20 months of September 27, 2017 the Respondent shall complete an evaluation of the capacity of the Collection System, including all existing force mains, gravity mains, and pump stations. Within 22 months of September 27, 2017, the Respondent shall submit to the Department a report summarizing the results of the capacity evaluation, specifically identifying any assets with insufficient capacity for current and known projected demands over the next 10 years.

k) **Asset Management and CMOM Program:** Within 18 months of Respondent's receipt of the Department's comments on the AM and CMOM Program Development Plan required in Subpara. 6(i) above, the Respondent shall submit for Department review and comment the written AM and CMOM Program for ongoing management of the Collection System. The Department will provide comments on the AM and CMOM Program within 30 days of submittal by Respondent. The Program shall be consistent with the EPA guidance referenced in Subpara. 6(i) above, and shall include the following:

- i) a description of grease trap ordinance requirements and the compliance monitoring and enforcement program conducted by the Respondent;
- ii) a description of how and when information from the mapping, capacity evaluation, force main condition assessment, manufacturer's maintenance and replacement recommendations, spill data, gravity sewer information, and other pertinent sources will be stored, periodically updated, and used in the ongoing Program;

iii) a description of how repairs, upgrades, and replacement of Collection System assets will be determined to be needed, prioritized, authorized, and funded, with priority given to those assets identified as critical within the City's Master Plan.

l) **Asset Management and CMOM Program Schedules:** At the time Respondent submits the Asset Management and CMOM Program to the Department for review and comment, Respondent shall also submit for Department review and approval (the Department shall provide a written response to the Respondent within 30 days of receipt) the Asset Management and CMOM Program Schedules listed below:

i) a schedule for implementing the AM and CMOM Program, including when any software upgrades or integrations needed for initial implementation of the Program will be completed and put into service, when databases the software relies upon will be populated with the information from the sources listed in 6(k)(ii) above, and when the AM and CMOM Program will be fully incorporated into planning, funding, procuring resources, and scheduling work;

ii) a schedule showing the completion date for construction of each Phase II Improvement Project identified in Exhibit C;

iii) a schedule for any other projects that need to be added to Phase II, as identified by the Force Main Condition Assessment.

m) Unless otherwise specified herein, Respondent has the right to challenge any final agency action including any determination by the Department hereunder, pursuant to Chapter 120 Fla. Stat. At the election of either the Respondent or Department, the Respondent and Department shall schedule an informal meeting to attempt a good faith resolution of any disputes that may arise under decision made hereunder; thereafter to the extent that the Respondent or Department remain aggrieved, the Department and Respondent may exercise any rights they may have under applicable statutes and administrative code rules.

n) Upon approval by the Department, the AM and CMOM Program implementation schedule and the Phase II improvements schedule shall be incorporated herein as enforceable parts of this Consent Order. It is the Respondent's responsibility to complete planning, budgeting and funding allocation, permitting, procurement, bidding and awarding each project, and initiation of construction on a schedule that will result in completion of construction by the dates required in this Amended Order. However, subsequent changes to schedules adopted pursuant to this Amended Order may be modified by mutual agreement of the Parties in writing.

o) Every 6 calendar months after the effective date of this Amended Order, the

Respondent shall submit to the Department a written progress report on the status and progress of projects being completed under this Amended Order, including the following information:

- i) the status of compliance or noncompliance with the applicable requirements of this Amended Order, and any reasons for noncompliance;
 - ii) the status of each of the Phase I and II projects listed in Exhibits A, B, and C;
- and
- iii) a projection of the work the Respondent will perform pursuant to this Amended Order during the 12-month period following the report.
- p) The Respondent shall submit progress reports to the Department on or before July 31, for the period from January 1 through June 30, and on or before January 31, for the period from July 1 through December 31 each year.

Respondent shall also comply with the additional following corrective actions within the stated time periods:

- q) Within 9 months of the effective date of this Amended Order, Respondent shall install and connect at least 1 temporary emergency generator at the G.T. Lohmeyer wastewater treatment plant to power at least one injection well pump during periods when there is no electricity, and maintain the generator in place and operational until such time the permanent emergency generator(s) is installed and fully operational, pursuant to sub-paragraph 6(r) below. Notwithstanding the number of temporary generators installed at the Facility, Respondent shall remain responsible for all unauthorized discharges of wastewater pursuant to sub-paragraph 13(b) of this Order. All necessary permits shall be obtained by Respondent prior to installing the temporary generator(s) at the Facility.
- r) Within 40 months of the effective date of this Amended Order, Respondent shall install permanent emergency generator(s) at the G.T. Lohmeyer wastewater treatment plant to supply sufficient power to operate the injection well pumping system at full permitted capacity during periods when there is no electricity. All necessary permits shall be obtained by Respondent prior to installing the permanent emergency generator(s) at the Facility.
- s) Within 10 months of the effective date of this Amended Order, Respondent shall create and submit a plan (Rapid Response Plan) to the Department demonstrating steps to be taken to acquire rapid response assistance from private and other public entities to further mitigate the impacts of unauthorized discharges and reduce the amount of time it takes to stop unauthorized discharges of wastewater.

7. Notwithstanding any other time periods described above, Respondent shall complete all

corrective actions required by Paragraph 6 on or before September 30, 2026, and be in full compliance with Chapter 62-604, F.A.C., other than those excused delays agreed to by the Parties, as described in Paragraph 23.

8. Within 180 days of September 27, 2017, Respondent shall submit to the Department an updated written estimate of the total cost of the corrective actions in Subpara. 6(a) through 6(l), including costs of the Phase I improvements. Within 180 days of the completion of the Force Main Condition Assessment, Respondent shall submit to the Department an updated written estimate of the total cost of the Phase II projects in Exhibit C, along with the costs for any other assets in need of repairs, rehabilitation, or replacement as identified by the Force Main Condition Assessment. Each written estimate shall identify the information Respondent relied upon to provide the estimate.

9. The Respondent shall complete an environmental analysis of George English Lake, the Tarpon River, and Himarshee Canal ("the Waterways") to assess the potential impacts caused by the December 2019, January 2020 and February 2020 unauthorized discharges.

a. Within 180 days of the effective date of this Amended Order, the Respondent shall provide to the Department an estimate of the amount of solids released from the sewage and an estimate of how much of the released solids remains in the Waterways and of that remaining amount, how much has settled to the bottom of the Waterways.

b. Within 180 days of the effective date of this Amended Order, the Respondent will develop and submit to the Department for approval, a plan to ascertain if the remaining solids in the Waterways are causing or contributing to violations of water quality standards as defined in Florida Administrative Code Rule 62-302 (Water Quality Assessment Plan). Within 90 days after the Department's approval of the Water Quality Assessment Plan, the Respondent will submit a water quality evaluation report (Report) signed and sealed by a Professional Engineer licensed in Florida, in accordance and in compliance with the approved Water Quality Assessment Plan.

c. If the Report concludes that the remaining solids are causing or contributing to water quality standards violations, then, within 90 days of submittal of the Report, the Respondent will submit to the Department for approval, a Corrective Action Plan (CAP). The CAP, if required, shall include a compliance schedule with dates of completion for the deliverables listed in the CAP.

d. If impacts to the Waterways are determined to not have occurred, then, within 90 days of the submittal of the Report, the Respondent shall submit to the Department a surface water enhancement plan providing environmental benefits to the Waterways. The plan shall include a compliance schedule with dates of completion for the deliverables listed in the enhancement plan.

10. The Department shall provide Respondent with its written approval, approval with conditions or modifications as a contingency of approval, or disapproval for each of the remaining plans or reports required in Paragraphs 6 and report required in paragraph 9 of this Amended Order. Respondent shall revise and resubmit plans or reports with the Department's written comments within ten (10) days of Respondent's receipt of the Department's written comments unless such comments specify an alternative due date, in which case Respondent shall submit to the Department any revised submittal, specification, or schedule in accordance with the due date specified by the Department. Revised submittals are also subject to approval, approval with conditions and/or modifications, or disapproval by the Department following these approval procedures. Failure to meet the timeframes contained herein is subject to stipulated penalties as set forth in paragraph 12 below. Any revised submittal that is not approved or is not approved with conditions and/or modifications is considered noncompliant with the terms of this Order and is subject to stipulated penalties as set forth in paragraph 12 below. Upon receipt of the Department's written approval, or approval with conditions and/or modifications, Respondent shall implement the plans or reports in accordance with the schedule and provisions contained therein", rather than inserting the statement in each applicable paragraph.

11. Within 180 days of the effective date of this Amended Order, Respondent shall submit to the Department an updated written estimate of the total cost of the corrective actions in Subparagraphs 6(q) through 6(s). Each written estimate shall identify the information Respondent relied upon to provide the estimate.

12. Respondent agrees to pay to the Department stipulated penalties in the amount of \$1,000.00 per day for each and every day Respondent fails to comply with paragraphs 6 through 11 and 33 of this Amended Order.

13. For each day an unauthorized discharge from the Facility or the Collection System occurs during the effective period of this Amended Order, that does not qualify as Excusable Discharges as defined in subparagraph 13.b) below, Respondent agrees to pay stipulated penalties as follows:

| a) | <u>Amount per day per Discharge</u> | <u>Discharge Volume</u> |
|----|-------------------------------------|------------------------------|
| | \$1000.00 | Up to 5,000 gallons |
| | \$2,000.00 | 5,001 to 10,000 gallons |
| | \$5,000.00 | 10,001 to 25,000 gallons |
| | \$10,000.00 | 25,001 to 100,000 gallons |
| | \$15,000.00 | In Excess of 100,000 gallons |

b) If the Department elects to pursue this stipulated penalty option, the Department will evaluate each spill on a case by case basis to determine whether the spill was beyond Respondent's reasonable control; whether Respondent is exercising prudent wastewater utility practices to reduce the frequency of spills; and whether Respondent took timely and appropriate actions to reduce the environmental impact of the spill(s). A stipulated penalty will be applied to any spill where Respondent fails to provide the Department with sufficient information to demonstrate that the spill qualifies as an Excusable Discharge. For the purposes of this Order, an Excusable Discharge is a spill that resulted from a temporary, infrequent incident that was beyond the reasonable control of Respondent.

Excusable Discharges include, but are not limited to the following:

- i) Extraordinary acts of nature, including but not limited to, rainfall equal to or 6 inches of rain in a 24-hour period, hurricanes, tropical storms, extreme high-tide events, tornadoes, wildfires, lightning strikes, or events where a State of Emergency is declared;
- ii) Actions by third parties unrelated to Respondent, including construction accidents, vehicular accidents, or vandalism; actions related to a contractor acting on behalf of Respondent is not an Excusable Discharge;
- iii) Blockages that could not be prevented by reasonable measures and due diligence;
- iv) Unexpected sudden structural, mechanical, or electrical failure that could not be avoided by reasonable measures and due diligence; and
- v) Spills that are attributable to parts of the Collection

System that are undergoing rehabilitation that could not be avoided by reasonable measures and due diligence.

14. The Department may demand stipulated penalties on an annual basis at any time after violations occur beginning upon the effective date of this Amended Order. Respondent shall pay stipulated penalties owed within 60 days of the Department's issuance of written demand for payment and shall do so as further described in paragraph 21, below. Nothing in this paragraph shall prevent the Department from filing suit to specifically enforce any terms of this Amended Order. Any stipulated penalties assessed under this Paragraph shall be in addition to civil

penalties agreed to in Paragraph 15 and 17 of this Amended Order. A demand for stipulated penalties does not prevent the Department from pursuing other statutory relief, such as damages or injunctive relief. In addition, if a stipulated penalty is not applied pursuant to paragraph 13 above, the Department may pursue all statutory relief, including civil or administrative penalties.

15. For the violations listed in paragraph 4. a) beginning on 3/31/14 and ending on 8/31/17, Respondent shall pay \$339,577.00. This amount includes \$334,577.00 for civil penalties and \$5,000.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of the First Order.

16. In lieu of making cash payment of \$334,577.00 in civil penalties as set forth in Paragraph 15 above, Respondent has elected to off-set this amount by implementing an in-kind penalty project, attached hereto and incorporated herein as Exhibit F, which was approved by the Department (hereinafter In-Kind One) Respondent shall comply with all the requirements and time frames in Exhibit D entitled In-Kind Projects for In-Kind One.

17. For the violations listed in paragraph 4. a) during the period of 12/10/19 through 2/14/20, Respondent shall pay the Department \$2,116,500 within 90 days of the effective date of this Amended Order. This amount includes \$371,500 in stipulated penalties, \$1,740,000 for civil penalties and \$5,000.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of this Amended Order.

18. In lieu of making cash payment of \$2,111,500 in civil penalties as set forth in paragraph 17 above, Respondent may elect to offset this amount by implementing an in-kind penalty project, which must be approved by the Department. An in-kind project must be either an environmental enhancement or an environmental restoration project and may not be a corrective action requirement of the Amended Order or otherwise required by law. The Department may also consider the donation of environmentally sensitive land as an in-kind project. The value of the in-kind penalty project shall be one and a half times the civil penalty off-set amount, which in this case is the equivalent of at least \$3,167,250. If Respondent chooses to implement an in-kind project, Respondent shall notify the Department of its election by certified mail within 30 days of the effective date of this Amended Order. Notwithstanding the election to implement an in-kind project, payment of the remaining \$5,000 in costs must be paid within 30 days of the effective date of the Amended Order.

19. If Respondent elects to implement an in-kind project as provided in paragraph 18, then Respondent shall comply with all the requirements and time frames in Exhibit E entitled "In-Kind Projects for In-Kind Two."

20. In the event that Respondent elects to off-set civil penalties including stipulated penalties by implementing an in-kind penalty project which is approved by the Department, during the period that this Order remains in effect or during the effective date of any Department issued Permit to Respondent whichever is longer (Prohibited Transfer Duration), Respondent shall not transfer or use funds obtained by the Respondent from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System (hereinafter, Prohibited Transfer). Respondent shall annually certify to the Department using the Annual Certification Form located in Exhibit E to this Order that no Prohibited Transfer has occurred. In the event of any Prohibited Transfer, the In-Kind project option shall be forfeited, and entire civil penalty shall immediately become due and owing to the Department irrespective of any expenditures by the Respondent in furtherance of the In-Kind project.

21. Respondent shall make all payments required by this Amended Order by cashier's check, money order, City check or on-line payment. Cashier's check, money order, or City check shall be made payable to the "Department of Environmental Protection" and shall include both the OGC number assigned to this Amended Order and the notation "Water Quality Assurance Trust Fund." Online payments by e-check can be made by going to the DEP Business Portal: <http://www.fldeportal.com/go/pay/>. It will take several days after this Order is final, effective, and filed with the Clerk of the Department before ability to make online payment is available.

22. Except as otherwise provided, all submittals required by this Order shall be submitted via email at sed.wastewater@dep.state.fl.us, or sent to Wastewater Compliance Assurance Program, Department of Environmental Protection, 3301 Gun Club Road, MSC 7210-1, West Palm Beach, FL 33406.

23. Respondent shall allow all authorized representatives of the Department access to the Facilities and the Properties at reasonable times for the purpose of determining compliance with the terms of this Amended Order and the rules and statutes administered by the Department.

24. If any event, including administrative or judicial challenges by third parties unrelated to Respondent, occurs which causes delay or the reasonable likelihood of delay in

complying with the requirements of this Amended Order, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of Respondent and could not have been or cannot be overcome by Respondent's due diligence. Neither economic circumstances nor the failure of a contractor, subcontractor, materialman, or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines shall be considered circumstances beyond the control of Respondent (unless the cause of the contractor's late performance was also beyond the contractor's control). Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department by the next working day of the event and shall, within seven calendar days, notify the Department in writing of (a) the anticipated length and cause of the delay, (b) the measures taken or to be taken to prevent or minimize the delay, and (c) the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended. The agreement to extend compliance must identify the provisions extended, the new compliance date or dates, and the additional measures Respondent must take to avoid or minimize the delay, if any. Failure of Respondent to comply with the notice requirements of this paragraph in a timely manner constitutes a waiver of Respondent's right to request an extension of time for compliance for those circumstances.

25. The Department, for and in consideration of the complete and timely performance by Respondent of all the obligations agreed to in this Amended Order, hereby waives its right to seek judicial imposition of damages or civil penalties for the violations described above up to the date of the filing of this Amended Order. This waiver is conditioned upon Respondent's complete compliance with all of the terms of this Amended Order.

26. This Amended Order is a settlement of the Department's civil, administrative, and delegated authority arising under Chapter 403, Florida Statutes, to resolve the matters addressed herein. This Amended Order is not a settlement of any criminal liabilities which may arise under Florida law, nor is it a settlement of any violation which may be prosecuted criminally or civilly under federal law. Entry of this Amended Order does not relieve Respondent of the need to comply with applicable federal, state, or local laws, rules, or ordinances.

27. The Department hereby expressly reserves the right to initiate appropriate legal

action to address any violations of statutes or rules administered by the Department that are not specifically resolved by this Amended Order.

28. Respondent is fully aware that a violation of the terms of this Amended Order may subject Respondent to judicial imposition of damages, civil penalties up to \$10,000.00 per day per violation, and criminal penalties.

29. Respondent acknowledges and waives its right to an administrative hearing pursuant to sections 120.569 and 120.57, F.S., on the terms of this Order other than a dispute as described in paragraph 6(l). Respondent also acknowledges and waives its right to appeal the terms of this Order pursuant to section 120.68, F.S.

30. Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

31. The terms and conditions set forth in this Amended Order may be enforced in a court of competent jurisdiction pursuant to sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Order constitutes a violation of section 403.161(1)(b), F.S.

32. This Amended Order is a final order of the Department pursuant to section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S. Upon the timely filing of a petition, this Amended Order will not be effective until further order of the Department.

33. Respondent shall publish the following notice in a newspaper of daily circulation in Broward County, Florida. The notice shall be published one time only within 15 days of the effective date of the Amended Order. Respondent shall provide a certified copy of the published notice to the Department within 10 days of publication.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF CONSENT AGREEMENT

The Department of Environmental Protection ("Department") gives notice of agency action of entering into an Amended Consent Order with the City of Fort Lauderdale, pursuant to

section 120.57(4), Florida Statutes. The Amended Consent Order addresses alleged unpermitted wastewater and effluent discharges from the City's wastewater facilities and associated wastewater collection/transmission systems to State waters, and the implementation plan to minimize further discharges. The Amended Consent Order is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Persons who are not parties to this Amended Consent Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Amended Consent Order means that the Department's final action may be different from the position it has taken in the Amended Consent Order.

The petition for administrative hearing must contain all of the following information:

- a) The OGC Number assigned to this Amended Consent Order;
- b) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding;
- c) An explanation of how the petitioner's substantial interests will be affected by the Amended Consent Order;
- d) A statement of when and how the petitioner received notice of the Amended Consent Order;
- e) Either a statement of all material facts disputed by the petitioner or a statement that the petitioner does not dispute any material facts;
- f) A statement of the specific facts the petitioner contends warrant reversal or modification of the Amended Consent Order.
- g) A statement of the rules or statutes the petitioner contends require reversal or modification of the Amended Consent Order; and
- h) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Amended Consent Order.

The petition must be filed (received) at the Department's Office of General Counsel, 3900

Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at Florida Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under sections 120.569 and 120.57, Florida Statutes. Before the deadline for filing a petition, a person whose substantial interests are affected by this Amended Consent Order may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes. Choosing mediation will not adversely affect such person's right to request an administrative hearing if mediation does not result in a settlement. Additional information about mediation is provided in section 120.573, Florida Statutes and Rule 62-110.106(12), Florida Administrative Code.

34. Rules referenced in this Order are available at:

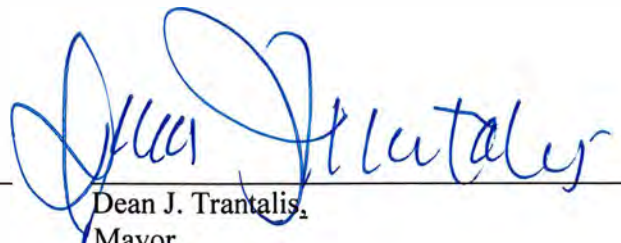
<https://floridadep.gov/ogc/ogc/content/rules>.

CITY OF FORT LAUDERDALE
ATTEST:



Jeffrey A. Modarelli, City Clerk
City Clerk

(SEAL)



Dean J. Trantalis,
Mayor



Chris Lagerbloom,
City Manager


Approved as to Legal Form



Alain E. Boileau,
City Attorney

DONE AND ORDERED this 12th day of October, 2020, in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jason Andreotta
District Director
Southeast District

Filed, on this date, pursuant to section 120.52, F.S., with the designated Department Clerk,
receipt of which is hereby acknowledged.



Clerk

October 12, 2020

Date

Copies furnished to:
Lea Crandall, Agency Clerk

Mail Station 35

EXHIBIT A
Phase I Projects

| Project # | Phase I Project Name | Description | Preliminary Cost Estimate |
|--|---------------------------------|--|------------------------------|
| 454-P12124.454-6599 | Central Beach Alliance PSD41 | Replace pump station #PSD41 | \$2,200,000 |
| 454-P12202.454-6599 | Pump Station D-11 | Flow analysis & design for pump station rehabilitation | \$500,000 |
| 454-P12133.454-6599 | Pump Station A-13 | Redirect E of F for pump station A-13 | \$2,100,000 |
| 454-P11879.454-6599 | Pump Station A-10 | Rehabilitate pump station A-10 | \$1,500,000 |
| 454-P11881.454-6599 | Pump Station D-45 | Replace pump station D-45 | \$525,000 |
| Preliminary Cost Estimate for Phase I Projects listed here | | | \$6,825,000 |

EXHIBIT B
Phase I Projects

| Project # | Phase I Project Name | Description | Preliminary Cost Estimate |
|--|----------------------------------|---|------------------------------|
| 454-P11563.454-6599 | Victoria Park Sewer Basin A-19 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$5,352,000 |
| 454-P11566.454-6599 | Rio Vista Sewer Basin D-43 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$2,960,000 |
| 454-P11991.454-6599 | Downtown Pump Station A-7 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$8,224,000 |
| 454-P12049.454-6599 | Flagler Heights Sewer Basin A-21 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$883,000 |
| 454-P12055.454-6599 | Sewer Basin A-18 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$4,198,000 |
| 454-P12001.454-6599 | Sewer Basin D-40 | Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration & inflow | \$100,000 |
| Preliminary Cost Estimate for Phase I Projects listed here | | | \$21,717,000 |

EXHIBIT C
Phase II Projects

| Phase II Project Name | Description | Preliminary Cost Estimate* |
|---|--|---|
| NE 25 th Ave. 24" Force Main | Replace or rehabilitate approx. 5,500 feet of RCP force main along NE 25 th Ave. | \$6,387,000 |
| NE 38 th St & NE 19 th Street 42" Force Main | Replace or rehabilitate approx. 8,000 feet of DIP force main along NE 38 th Street, and install 3,000 feet of new 24" force main along NE 19 th Street | \$9,326,000 |
| NW 5 th St., NW 9 th Ave., & W. Sistrunk Blvd. 30" Force Main | Replace or rehabilitate approx. 12,000 feet of CIP force main along NW 5 th St. & NW 9 th Ave., and install 6,000 feet of new 24" force main along Sistrunk Blvd. | \$11,769,000 |
| Redundant Sewer Force Main South | Install 15,000 feet of new redundant 54-inch force main from approx. 900 feet south of the intersection of East Sunrise Blvd. and NE 15 th Ave. to the intersection of SE 10 th Ave. and SE 18 th St. | \$36,059,000 |
| Rehabilitation of 48/54-Inch Force Main Replacement on SE 9 th and 10 th Avenues to GTL | Rehabilitation or replacement of approx. 19,400 feet of the existing 48-inch to 54-inch force main along SE 9 th and 10 th Avenues to GTL WWTP. | \$23,050,000 |
| Treatment Plant to Injection Wells Effluent Force Main | Replace or rehabilitate the PCCP effluent force main leading from the G.T. Lohmeyer facility to the deep injection wells | \$3,142,000 |
| NW 13 th Ave. 24" Force Main | Replace or rehabilitate approx. 3,300 feet of CIP force main along NW 13 th Ave. | \$1,914,000 |
| NE 9 th St. to Birch Rd River Crossing 18" Force Main | Replace or rehabilitate approx. 1,000 feet of DIP force main river crossing from NE 9 th Street to Birch Road | \$434,000 |
| Preliminary Cost Estimate for Phase II Projects listed here* | | \$57,628,000 \$92,081,000 |

* Preliminary costs assume complete replacement. The Force Main Assessment will determine work to be done on each project.

EXHIBIT D
In-Kind Projects for In-Kind One

A. Within sixty (60) days of the effective date, the City shall submit, by certified mail, a detailed in-kind project proposal to the Department for evaluation. The proposal shall include a summary of benefits, proposed schedule for implementation and documentation of the estimated costs which are expected to be incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the in-kind project.

B. If the Department requests additional information or clarification due to a partially incomplete in-kind project proposal or requests modifications due to deficiencies with Department guidelines, The City shall submit, by certified mail, all requested additional information, clarification, and modifications within fifteen (15) days of receipts of written notice.

C. If upon review of the in-kind project proposal, the Department determines that the project cannot be accepted due to a substantially incomplete proposal or due to substantial deficiencies with minimum Department guidelines; The City shall be notified, in writing, of the reason(s) which prevent the acceptance of the proposal. The City shall correct and redress all of the matters at issue and submit, by certified mail, a new proposal within thirty (30) days of receipt of written notice. In the event that the revised proposal is not approved by the Department, The City shall make cash payment of the civil penalties as set forth in Paragraph 15 of this Amended Order, within thirty (30) days of Department notice.

D. Within one-hundred twenty (120) days of the Effective Date, the City shall obtain approval for an in-kind project from the Department. If an in-kind project proposal is not approved by the Department within one-hundred twenty (120) days of the Effective Date, then The City shall make cash payment of the civil penalties as set forth in Paragraph 15 of this Amended Order, within thirty (30) days of Department notice.

E. Within one-hundred eighty (180) days of obtaining Department approval for the in-kind proposal or in accordance with the approved schedule submitted pursuant to Paragraph A above, The City shall complete the entire in-kind project.

F. During the implementation of the in-kind project, The City shall place appropriate sign(s) at the project site indicating that The City's involvement with the project is the result of a

Department enforcement action. The City may remove the sign(s) after the project has been completed. However, after the project has been completed the City shall not post any sign(s) at the site indicating that the reason for the project was anything other than a Department enforcement action.

G. In the event the City fails to timely submit any requested information to the Department, fails to complete implementation of the in-kind project or otherwise fails to comply with any provision of this paragraph, the in-kind penalty project option shall be forfeited and the entire amount of civil penalties shall be due from the City to the Department within thirty (30) days of Department notice. If the in-kind penalty project is terminated and The City timely remits the \$334,577.00 penalty, no additional penalties shall be assessed under Paragraph 15 of this Amended Order for failure to complete the requirement of this paragraph.

H. Within fifteen (15) days of completing the in-kind project, the City shall notify the Department, by certified mail, of the project completion and request a verification letter from the Department. The City shall submit supporting information verifying that the project was completed in accordance with the approved proposal and documentation showing the actual costs incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the project.

I. If upon review of the notification of completion, the Department determines that the project cannot be accepted due to a substantially incomplete notification of completion or due to substantial deviations from the approved in-kind project, The City shall be notified, in writing, of the reason(s) which prevent the acceptance of the project. The City shall correct and redress all of the matters at issue and submit, by certified mail, a new notification of completion within fifteen (15) days of receipt of the Department's notice. If upon review of the new submittal, the Department determines that the in-kind project is still incomplete or not in accordance with the approved proposal, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalty shall be due from the City to the Department within thirty (30) days of Department notice. If the in-kind penalty project is terminated and the City timely remits the \$334,577.00, no additional penalties shall be assessed under Paragraph 15 of this Amended Order for failure to complete the requirements of this paragraph.

EXHIBIT E
In-Kind Projects for In-Kind Two

I. Introduction

Proposal

a. Within 60 days of the effective date of the Amended Order, Respondent shall submit, by certified mail, a detailed in-kind project proposal to the Department for evaluation. The proposal shall include a summary of benefits, proposed schedule for implementation and documentation of the estimated costs which are expected to be incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the in-kind project.

Proposal Certification Form

b. On the anniversary date of the Department's approval of the in-kind project proposal, for the term of this Consent Order or the term of the Respondent's permit, whichever is longer, the Respondent shall annually submit to the Department a Certification by notarized affidavit from a senior management official for the City of Fort Lauderdale who shall testify as follows:

Annual Certification Form

My name is _____ (print or type name of senior management official) and do hereby testify under penalty of law that:

A. I am a person with management responsibilities for the City of Fort Lauderdale budget and finances. During the twelve-month period immediately preceding the notary date on this Certification, there has not been any transfer or use of funds obtained by the City of Fort Lauderdale from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System.

B. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly submitting false information in this certification.

Sworn to and subscribed before me, by means of ☐ physical presence or ☐ online notarization, this ____ day of _____, 20__ by

Personally, known or by Production of the following Identification _____

Notary Public, State of Florida

Printed/typed or stamped name:

My Commission Expires:

Commission/Serial No.:

c. If the Department requests additional information or clarification due to a partially incomplete in-kind project proposal or requests modifications due to deficiencies with Department guidelines, Respondent shall submit, by certified mail, all requested additional information, clarification, and modifications within 15 days of receipts of written notice.

d. If upon review of the in-kind project proposal, the Department determines that the project cannot be accepted due to a substantially incomplete proposal or due to substantial deficiencies with minimum Department guidelines; Respondent shall be notified, in writing, of the reason(s) which prevent the acceptance of the proposal. Respondent shall correct and redress all the matters at issue and submit, by certified mail, a new proposal within 30 days of receipt of written notice. In the event that the revised proposal is not approved by the Department, Respondent shall make cash payment of the civil penalties as set forth in paragraph 17 above, within 30 days of Department notice.

e. Within 120 days of the effective date of the Amended Order, or, of the Department's notification that applying stipulated penalties to an in-kind project is acceptable Respondent shall obtain approval for an in-kind project from the Department. If an in-kind project proposal is not approved by the Department within 120 days of the effective date of this Amended Order, then Respondent shall make cash payment of the civil penalties as set forth in paragraph 17 of this Amended Order, within 30 days of Department notice.

f. Within 180 days of obtaining Department approval for the in-kind proposal or in accordance with the approved schedule submitted pursuant to paragraph 2(a) above, Respondent shall complete the entire in-kind project.

g. During the implementation of the in-kind project, Respondent shall place appropriate sign(s) at the project site indicating that Respondent's involvement with the project is the result of a Department enforcement action. Respondent may remove the sign(s) after the project has been completed. However, after the project has been completed Respondent shall not post any sign(s) at the site indicating that the reason for the project was anything other than a Department enforcement action.

h. In the event, Respondent fails to timely submit any requested information to the Department, fails to complete implementation of the in-kind project or otherwise fails to comply with any provision of this paragraph, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalties shall be due from the Respondent to the Department within 30 days of Department notice. If the in-kind penalty project is terminated and Respondent timely remits the \$2,111,500 penalty, no additional penalties shall be assessed under paragraph 17 for failure to complete the requirement of this paragraph.

i. Within 15 days of completing the in-kind project, Respondent shall notify the Department, by certified mail, of the project completion and request a verification letter from the Department. Respondent shall submit supporting information verifying that the project was completed in accordance with the approved proposal and documentation showing the actual costs incurred to complete the project. These costs shall not include those incurred in developing the proposal or obtaining approval from the Department for the project.

j. If upon review of the notification of completion, the Department determines that the project cannot be accepted due to a substantially incomplete notification of completion or due to substantial deviations from the approved in-kind project; Respondent shall be notified, in writing, of the reason(s) which prevent the acceptance of the project. Respondent shall correct and redress all the matters at issue and submit, by certified mail, a new notification of completion within 15 days of receipt of the Department's notice. If upon review of the new submittal, the Department determines that the in-kind project is still incomplete or not in accordance with the approved proposal, the in-kind penalty project option shall be forfeited, and the entire amount of civil penalty shall be due from the Respondent to the Department within 30 days of Department

notice. If the in-kind penalty project is terminated and Respondent timely remits the \$ 2,111,500, no additional penalties shall be assessed under paragraph 17 for failure to complete the requirements of this paragraph.

EXHIBIT F

In-Kind One



November 22, 2017

Wastewater Compliance Assurance Program
Department of Environmental Protection
3301 Gun Club Road – MSC 7210-1
West Palm Beach, FL 33406

Re: Fort Lauderdale Consent Order OGC No. 16-1487 In-Kind Project Proposal

On September 29th, 2017, we received the fully executed Consent Order for OGC File 16-1487 which outlines the City's obligations within the order. Paragraph 13 and Exhibit D allows for implementation of an in-kind project, with a value of at least \$501,865.50, in lieu of making cash payment for civil penalties. This project must be an environmental enhancement, environmental restoration, or a capital/facility improvement project.

The City proposes to construct a new pressurized force main that will connect Pump Station D-37 on Lido Drive to a newly installed subaqueous force main that crosses the Intracoastal Waterway. When complete, this enhancement will provide the ability to convey wastewater between the large diameter transmission force mains on both sides of the IntraCoastal Waterway in order to deliver it to the George T. Lohmeyer Wastewater Treatment Plant. The ability to redirect flows from the Las Olas Isles area to the easternmost transmission force main on the barrier island will allow better balancing of flows throughout the system and reduce risk from excessive flow/pressure in the central portion of the City. Furthermore, it provides the ability to take several large diameter force mains out of service for maintenance/rehabilitation efforts without impacting overall operations.

The project includes installation of approximately 3,100 linear feet of 16-inch force main under Las Olas Boulevard from Pump Station D-37 to the Intracoastal Waterway, as well as connecting Pump Station D-38 to the new HDPE line and the rehabilitation/upgrading of the station's wet well, electrical panels, and pumps.

New Project: Installation of New 3,100 LF of 16-inch HDPE, D-9 Force Main from Pump Station D-37 to the Intracoastal Waterway, and modification of PS D-38. (Attached Map Exhibit 1)

Background:

The Las Olas Isles section of the City includes 26 smaller pump stations that collect gravity flows from the Las Olas Isles area and connect the flows to Pump Station D-37. The flows are then routed west toward the downtown area and ultimately, to a 48-inch

PUBLIC WORKS DEPARTMENT

100 N ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA 33301

TELEPHONE (954) 828-5772, FAX (954) 828- 5074

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diameter sewer transmission main and the George T. Lohmeyer Wastewater Treatment Plant (GTL).

Historical records show that the Las Olas Isles sewer system (basin) is operating at maximum capacity. The collection system is a gravity pipe that consists mostly of vitrified clay pipes that are highly susceptible to Inflow and Infiltration (I/I). This has been exacerbated by king tides, and rain stormwater inducing water into the manholes and pumping stations, and causing manhole covers to overflow. The following characteristics apply to Las Olas Isles:

- High Inflow and Infiltration (I/I) due to king tides
- High Inflow and Infiltration (I/I) due to stormwater events (rain)
- High ground water (hence more Inflow and Infiltration (I/I) into the system)
- Older gravity collection system (vitrified clay pipes)
- Longer run times in pumping stations
- Intensive multi-story residential development (Isle of Venice and Hendricks Isle)
- Increased demand on the system

With all wastewater flow from the Las Olas Isles currently directed west toward the Downtown area, it presents many different challenges. The Downtown area is experiencing tremendous growth, with more than 40 high rise projects in the Downtown and Flagler Village. Based on economic studies, the City expects further growth and development along the Andrews Avenue corridor as well as the Federal Highway corridor from Broward Boulevard to Sunrise Boulevard. This development will increase sewage flows into all pumping stations and force mains in these areas. A new pump station, A-13 (capacity about 1.0 MGD) is under construction and will support several of these high rise developments.

This In-kind project will allow rerouting of flows from the Las Olas Isles toward the barrier island and ultimately to GTL, as well as providing a secondary path for flows from the downtown area.

Project Benefits. The following are tangible benefits from the proposed project:

- Provides redundancy to the older sewer system at Las Olas Isles basin
- Redirects flow easterly to the 24-inch sewer main at the barrier island with reduced flows in the Downtown area
- Reduces pump run times at 26 pump stations with reduced risk SSOs in the Las Olas Isles area
- Prevent manholes overflow (bubbling) along East Las Olas boulevard
- Accommodates added flows from increased high tide Inflow and Infiltration (I/I)
- Accommodates added flows due to stormwater (rain)
- Provide the sewer system in the Downtown area with added capacity, to accommodate new demands and real estate developments
- Reduce flows on the 48-inch sewer main transmission line to GTL

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- Reduce pump run times in the Downtown areas, including A-7 and A-13 (under construction)
- Provides a back-up redundant method to reroute flows during major pipe breaks

Project Definition/Scope of Work (SOW): This project involves installation of approximately 3,100 linear feet of 16-inch diameter HDPE DR-9 force main, including two valves under the Las Olas Bridge, to connect Pump Station D-37 to the Intracoastal Waterway. The scope also include connecting Pump Station D-38 to the new HDPE line and the rehabilitation/upgrading of the station's wet well, increasing pump sizes, and electrical panels. The benefit of the D-38 work would be to remove approximately 1,200 gallons per minute of peak flow from the overloaded East Las Olas gravity trunk line, which would prevent any future sanitary sewer overflows at the Seven Isles and Nurmi manholes, both of which have a long history of overflows and concerns from FDEP and Broward County.

- All pipe sections: 16-inch diameter HDPE DR-9 sewer pipe and fittings
- Associated flow control valves - one at D-37 and one at ICW
- Construction Method: Directional Drilling or Pipe Bursting
- Associated air release valves
- Associated manholes and covering
- All work shall be done by insured contractors, with bonding
- All design work shall be done with board licensed/registered professionals.

Project Schedule: This project shall be fast tracked to ensure quick completion. This may be accomplished via the Design/Build method utilizing directional drilling technologies. The estimated completion date for the In-Kind Project is April 17, 2020. (See Exhibit 2-Schedule)

Construction - "Directional Drilling method": To expedite construction and minimize the impact and disruption of an "open cut" construction method along East Las Olas Boulevard, it is recommended that this pipe be installed via the directional drilling method, utilizing High Density Polyethylene (HDPE) pipe inserts. HDPE has to be fusion welded on site, and must be capable of sustaining the design pressure for the flow.

Project Finances and Estimated Costs:

- This project is not included in the current Capital Improvement Program (FY2018 – FY2023)
- This project construction costs are to be financed through the Consent Order and a Year 2018 Bond Issue.
- The costs for installation of 3,100 LF of 30-inch HDPE force main and modification of Pump Station D-38, is about \$3.0 million (See Attached Exhibit 3 - Opinion of Probable Costs)

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The City believes this capital improvement project will substantially improve the reliability and flexibility of the system to adjust wastewater flows and we recommend that this project proposal is considered as the In-kind requirement for the Consent Order. We kindly seek your approval to proceed with fast tracked design and construction.

Attachment:

- Exhibit 1 (Phase II Map)
- Exhibit 2 (Schedule)
- Exhibit 3 (Opinion of Probable Costs)

Paul Berg
Public Works Director
City of Fort Lauderdale

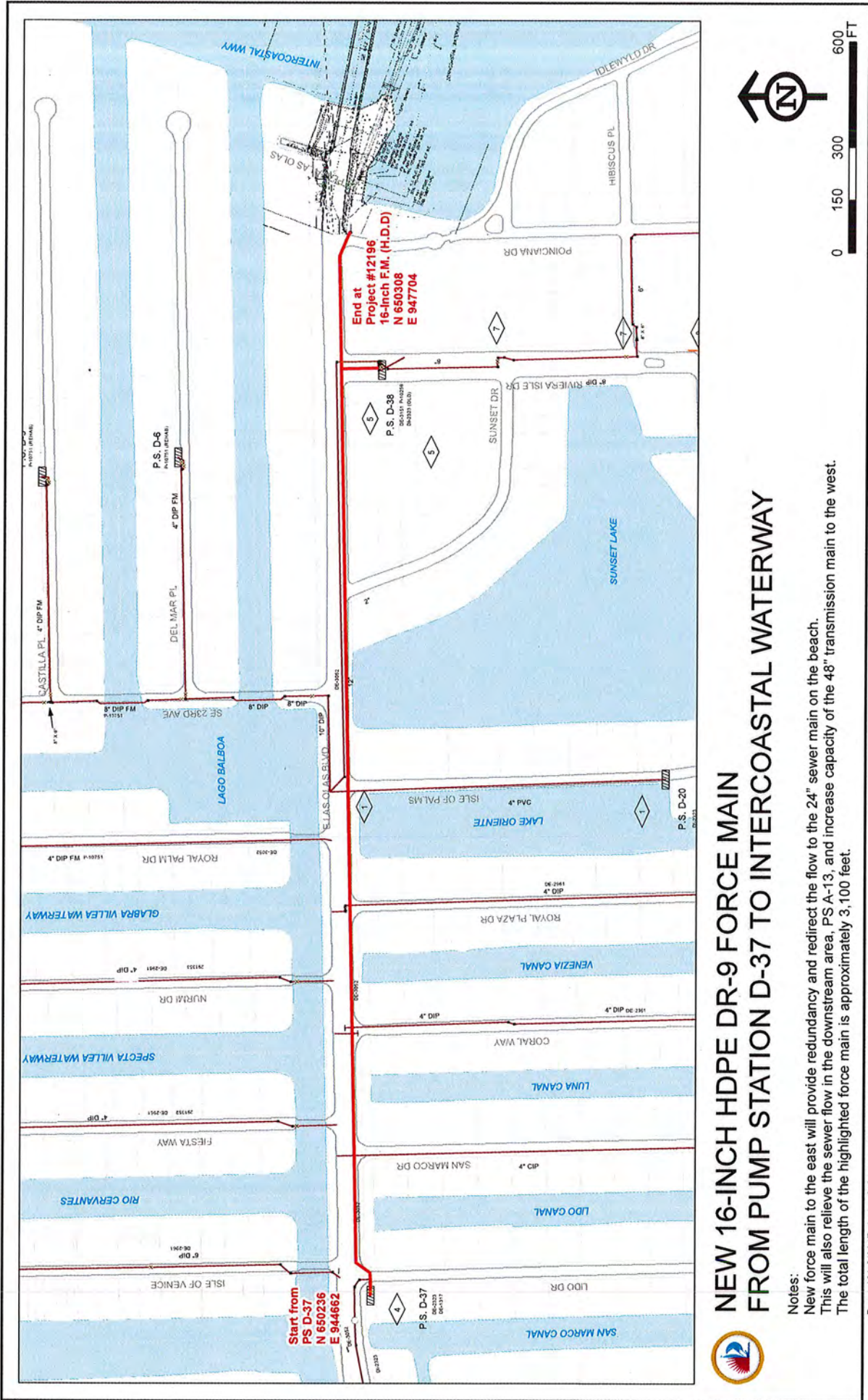
cc: Lee Feldman, City Manager
Christopher Lagerbloom, Assistant City Manager
Alan Dodd, P.E., Deputy Public Works Director
Talal Abi-Karam, P.E., Assistant Public Works Director
Rhonda M Hasan, Assistant City Attorney
Michael Bechtold, Florida Department of Environmental Protection
Konstantin Dubov, Florida Department of Environmental Protection

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| ID | Task Name | Duration | Start | Finish | Predecessors | Resource Names | alf | 1st Half | 2nd Half | 1st Half | 2nd Half | 1st Half | 2nd Half | 1st Half | 1st Half |
|----|----------------------------|----------|-------------|--------------|--------------|----------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | Design and Permitting | 240 days | Mon 1/1/18 | Fri 11/30/18 | | | | | | | | | | | |
| 2 | Bidding and Contract Award | 120 days | Mon 12/3/18 | Fri 5/17/19 | 1 | | | | | | | | | | |
| 3 | Construction | 240 days | Mon 5/20/19 | Fri 4/17/20 | 2 | | | | | | | | | | |










| | | | | | | |
|---|----------|---|-----------------|---|--------------------|---|
| Project: Las Olas Force Main and PS I Date: Wed 11/22/17 | Task |  | Milestone |  | External Tasks |  |
| | Split |  | Summary |  | External Milestone |  |
| | Progress |  | Project Summary |  | Deadline |  |

EXHIBIT III

| Phase II Las Olas Force Main Replacement and Modification to PS D-38 (In-Kind Project) | | | | | |
|---|---|------------------|-------------|-----------------------|------------------------------|
| Item no. | Description of Item | Unit Qty. | Unit | Cost Per Unit. | Total cost of Item |
| Project 3: 3100 LF of 16" HDPE DR-9 FM and Pump Station D-38 Rehabilitation | | | | | |
| 1 | General Conditions/ Mobilization and Demobilization | 1 | LS | \$ 65,000.00 | \$65,000.00 |
| 2 | Maintenance of Traffic (MOT) | 1 | LS | \$ 100,000.00 | \$100,000.00 |
| 3 | Erosion Control | 1 | LS | \$ 25,000.00 | \$25,000.00 |
| 4 | Engineering Design, Survey and Permitting | 1 | LS | \$ 350,000.00 | \$350,000.00 |
| 5 | 16" Control Valves | 2 | EA | \$ 35,000.00 | \$70,000.00 |
| 6 | Permitting Allowances | 1 | AL | \$ 75,000.00 | \$75,000.00 |
| 7 | Directional Drill - 16" FM HDPE | 3100 | LF | \$ 350.00 | \$1,085,000.00 |
| 8 | Furnish HDPE Pipe - 16" FM | 3100 | LF | \$ 125.00 | \$387,500.00 |
| 9 | Open-Cut Installation | 200 | LF | \$ 600.00 | \$120,000.00 |
| 10 | Connection to Existing Force Main | 2 | EA | \$ 11,750.00 | \$23,500.00 |
| 11 | FM Fittings | 1 | LS | \$ 50,000.00 | \$50,000.00 |
| 12 | Pavement Restoration and Appurtenances | 1 | LS | \$ 150,000.00 | \$150,000.00 |
| 13 | D-38 Wet Well Rehabilitation | 1 | LS | \$ 40,000.00 | \$40,000.00 |
| 14 | D-38 Motor Upgrades | 1 | LS | \$ 100,000.00 | \$100,000.00 |
| 15 | D-38 Electrical Panel Upgrades | 1 | LS | \$ 35,000.00 | \$35,000.00 |
| 15 | D-38 Permitting, Design and Modelling Services | 1 | LS | \$ 50,000.00 | \$50,000.00 |
| Project Subtotal: | | | | | \$2,726,000.00 |
| Contingencies (10%): | | | | | \$272,600.00 |
| <u>Project Total:</u> | | | | | <u>\$2,998,600.00</u> |

EXHIBIT G

CITY RECORD DRAWINGS FOR PUMP STATION B-4

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

PS B-4 As-Built Drawings (dated July 1960)

P3574 - PS B-4 Force Main Connection to 42-inch Force Main (dated August 1981)

PS B-4 Field Notes from New Force Main Installation (dated August 2001)

PS B-4 Field Notes from New Force Main Installation (dated February 2020)

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

PS B-4 AS-BUILT DRAWINGS (DATED JULY 1960)

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|-------------|
| 1 | PLOT PLAN |
| 203 | STRUCTURAL |
| 4 | ELECTRICAL |

FORT LAUDERDALE CITY COMMISSION

MAYOR COMMISSIONER

EDWARD H. JOHNS

COMMISSIONERS

EDMUND R. BURRY

JAMES L. LEAVITT

WILLIAM D. MASON

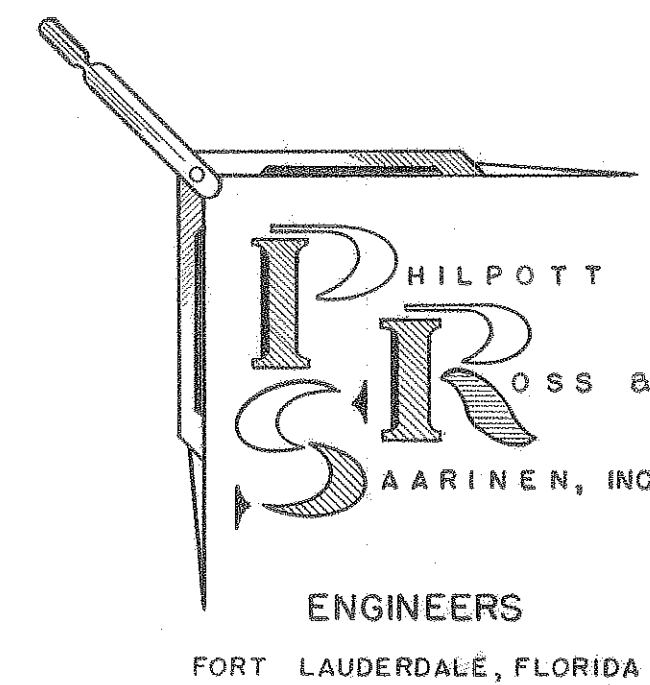
FREDERICK E. RITZENHEIM

AREA - B

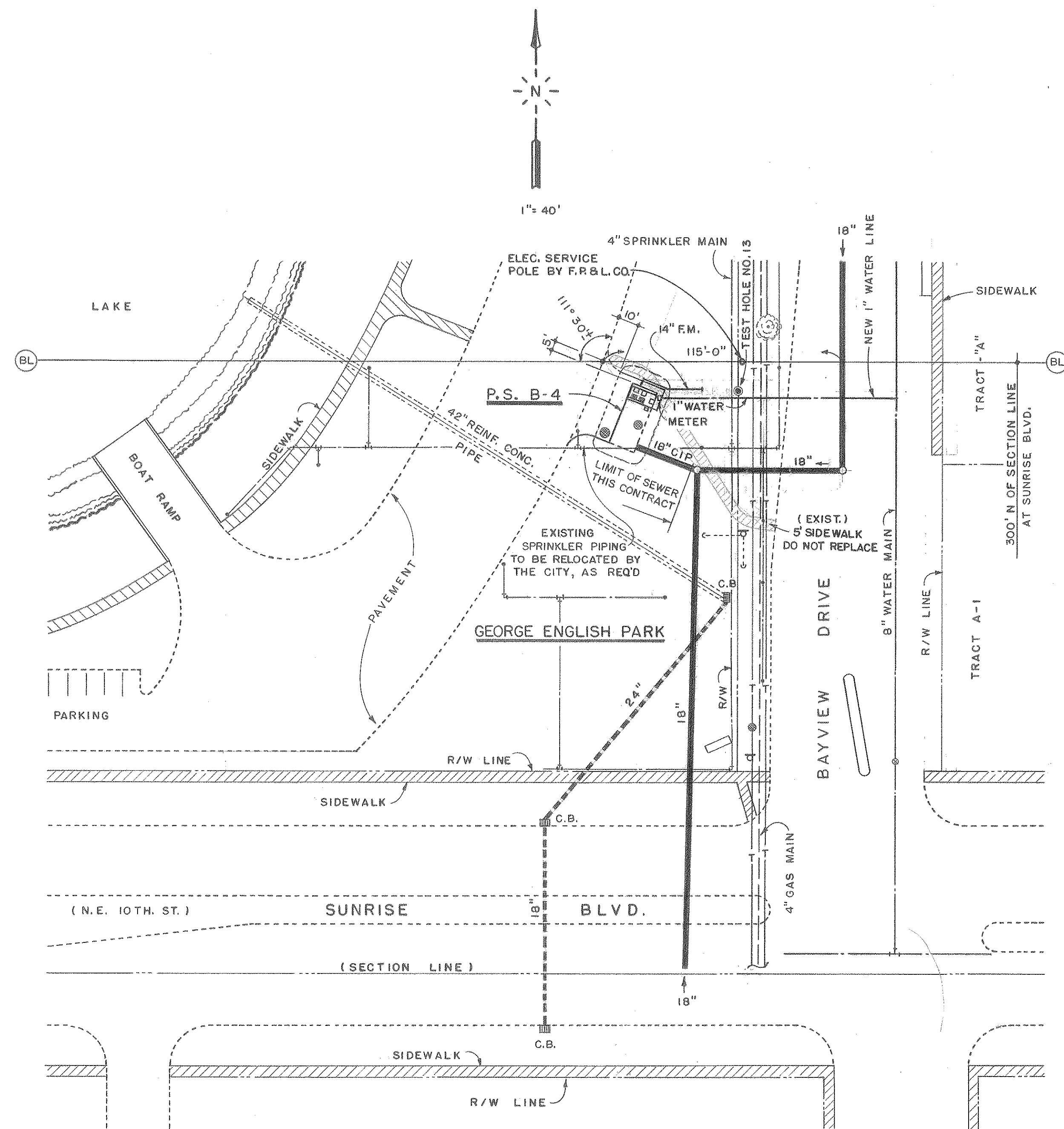
SEWAGE PUMPING STATION B - 4

FOR

CITY OF FORT LAUDERDALE, FLORIDA

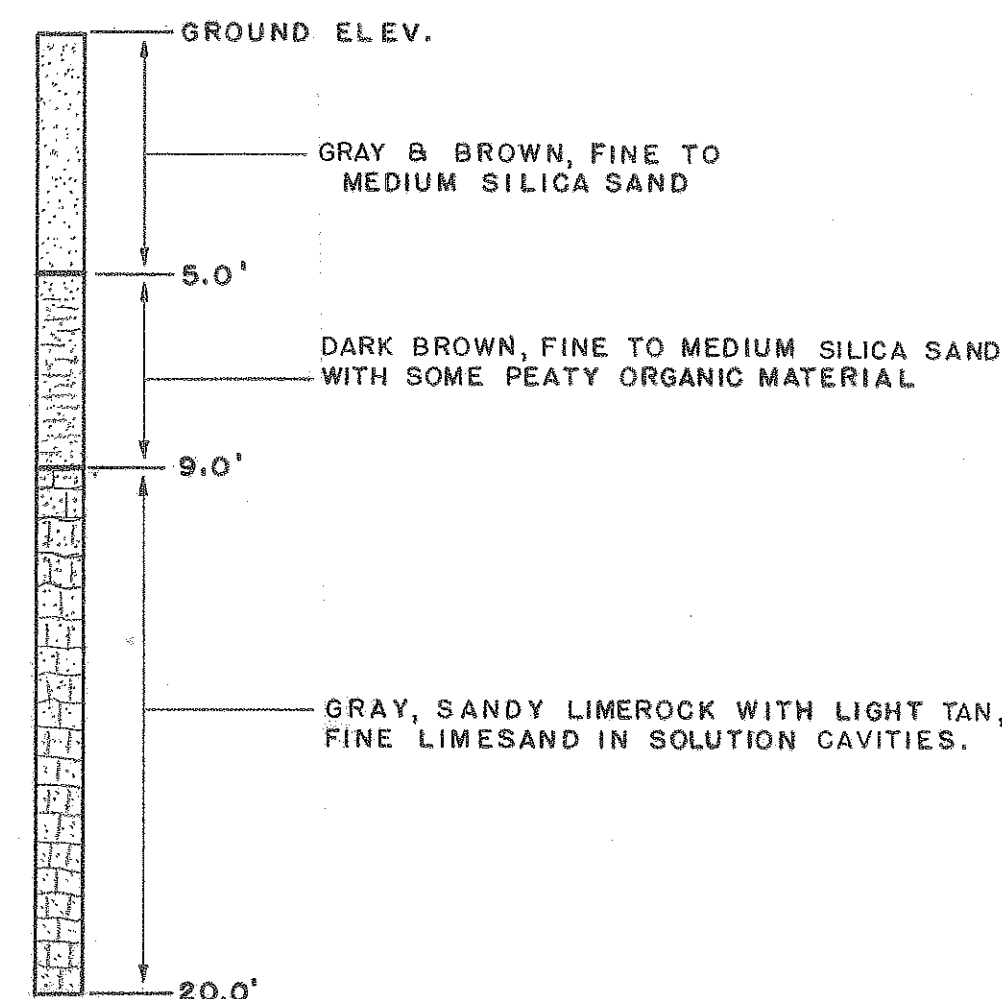


PROJECT NO. 840



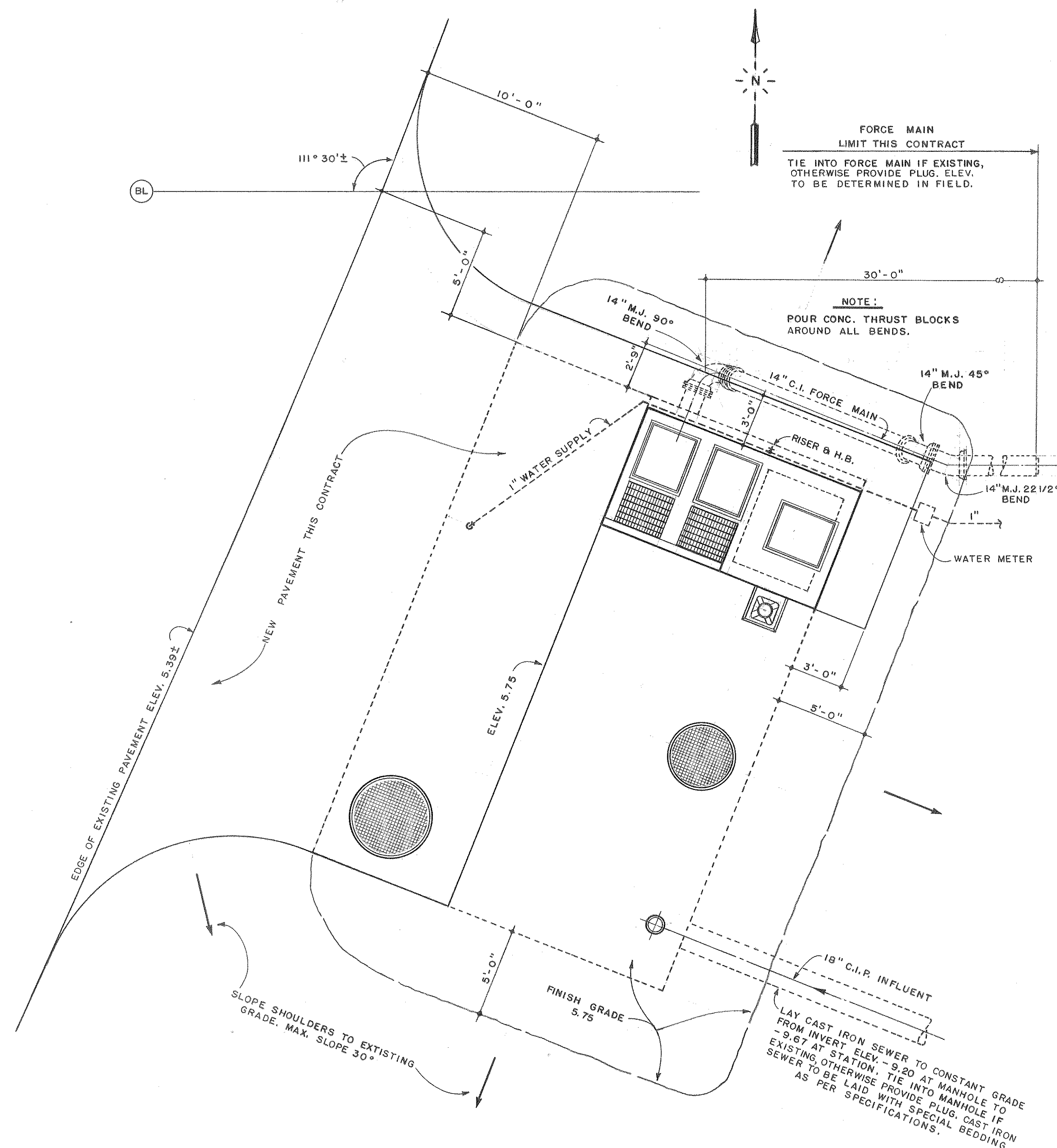
LOCATION PLAN

SCALE 1"=40'



TEST BORE NO. 13

NO SCALE



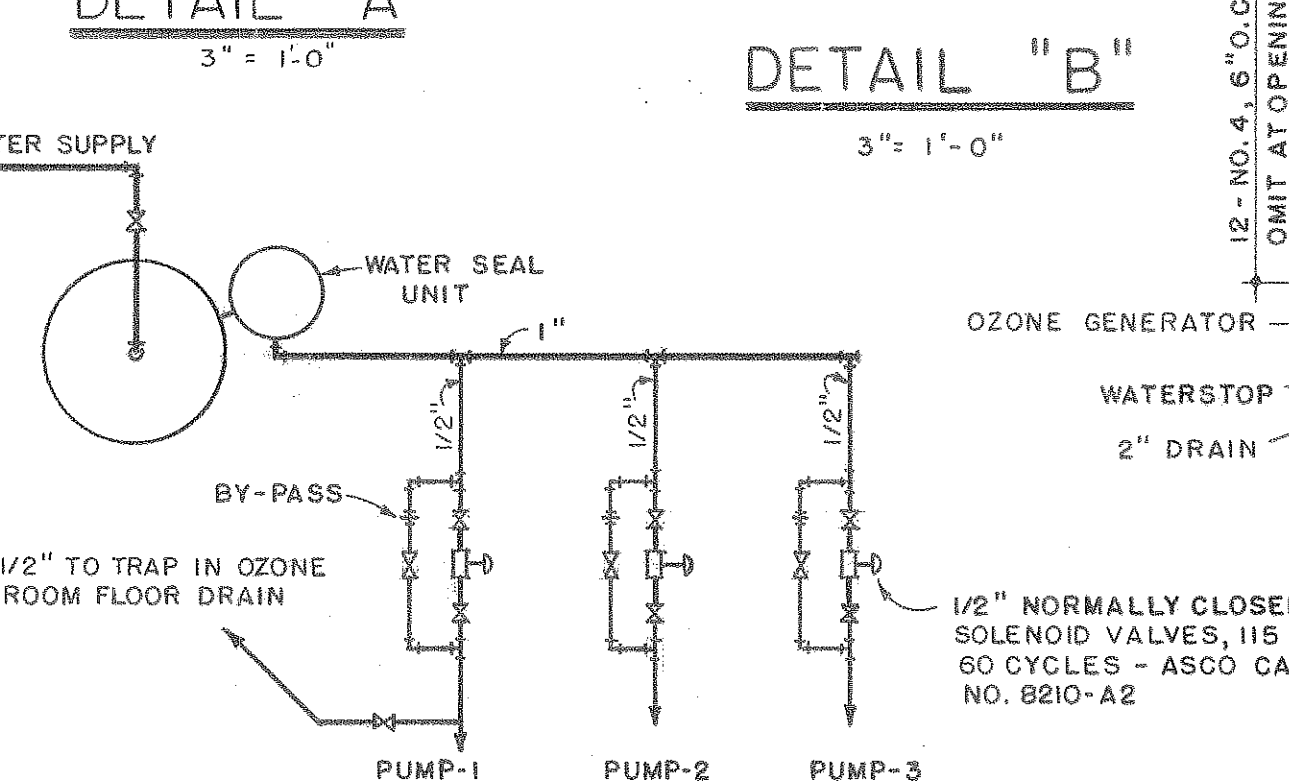
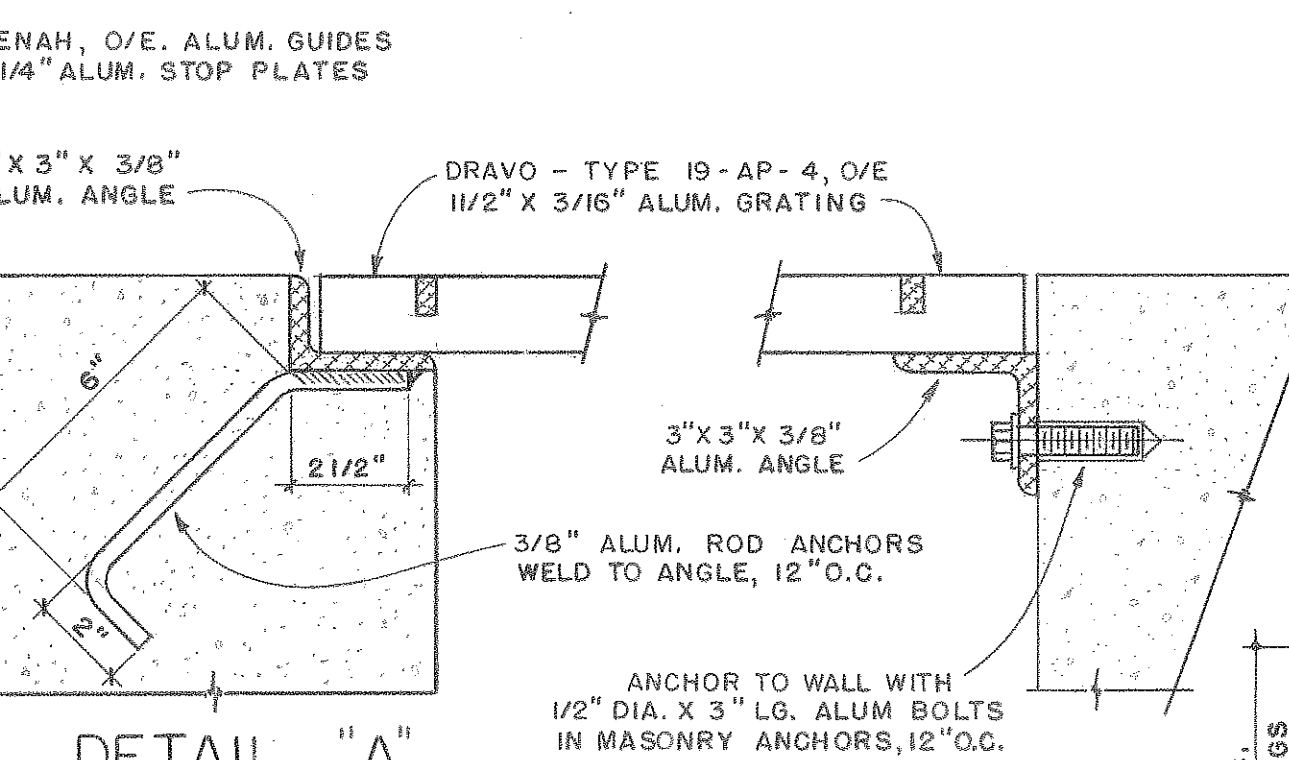
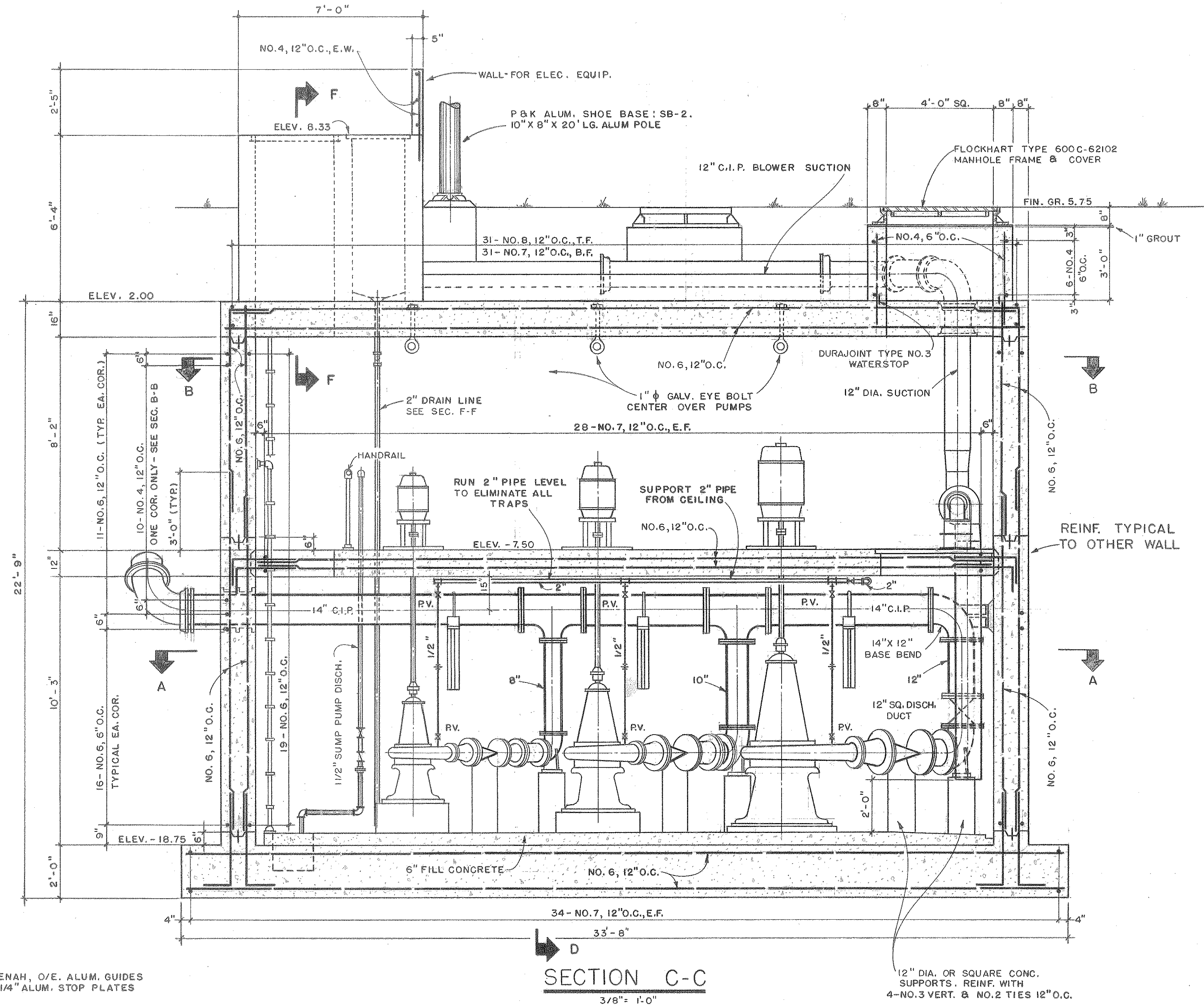
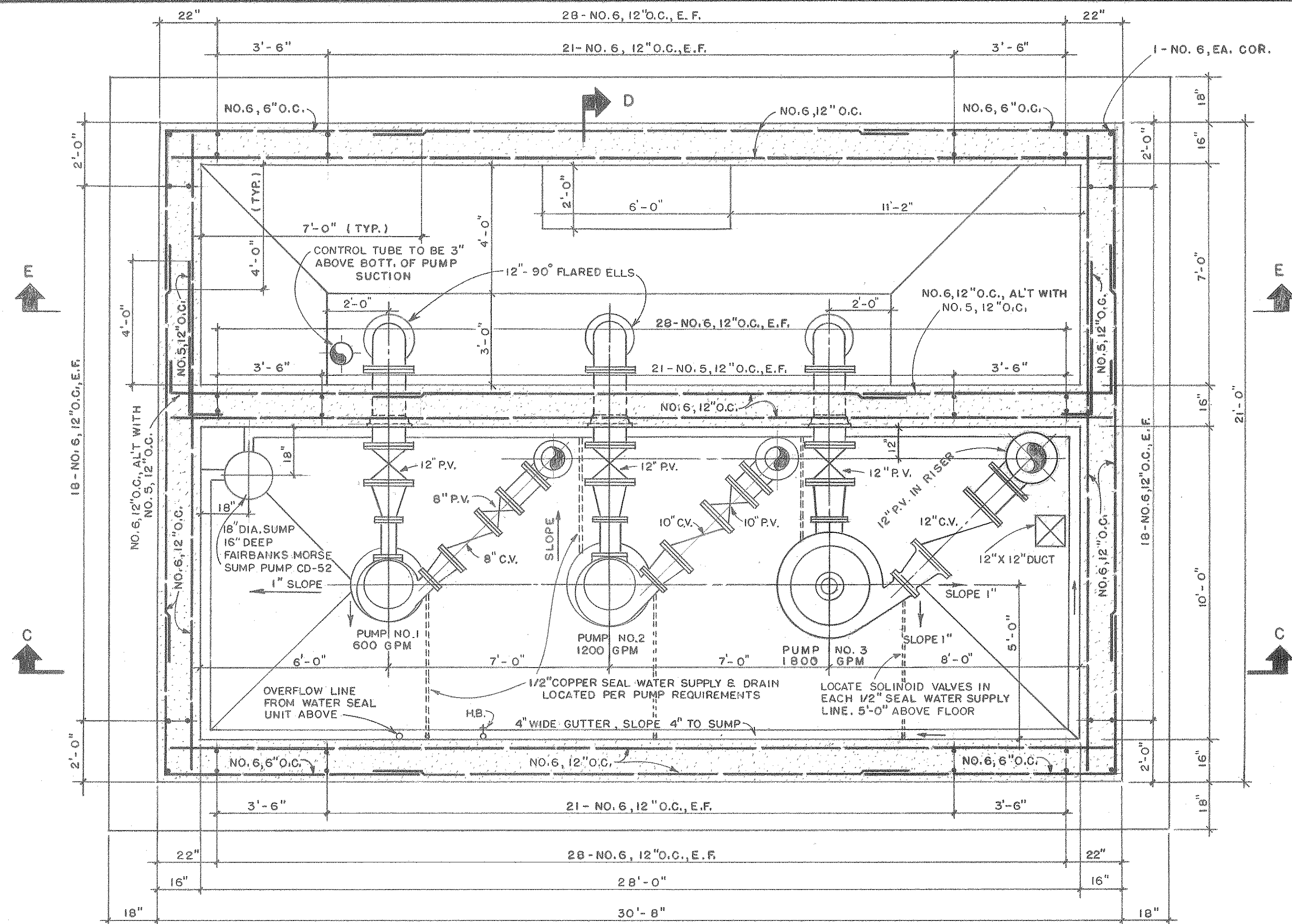
PLOT PLAN

SCALE 1/4"=1'-0"

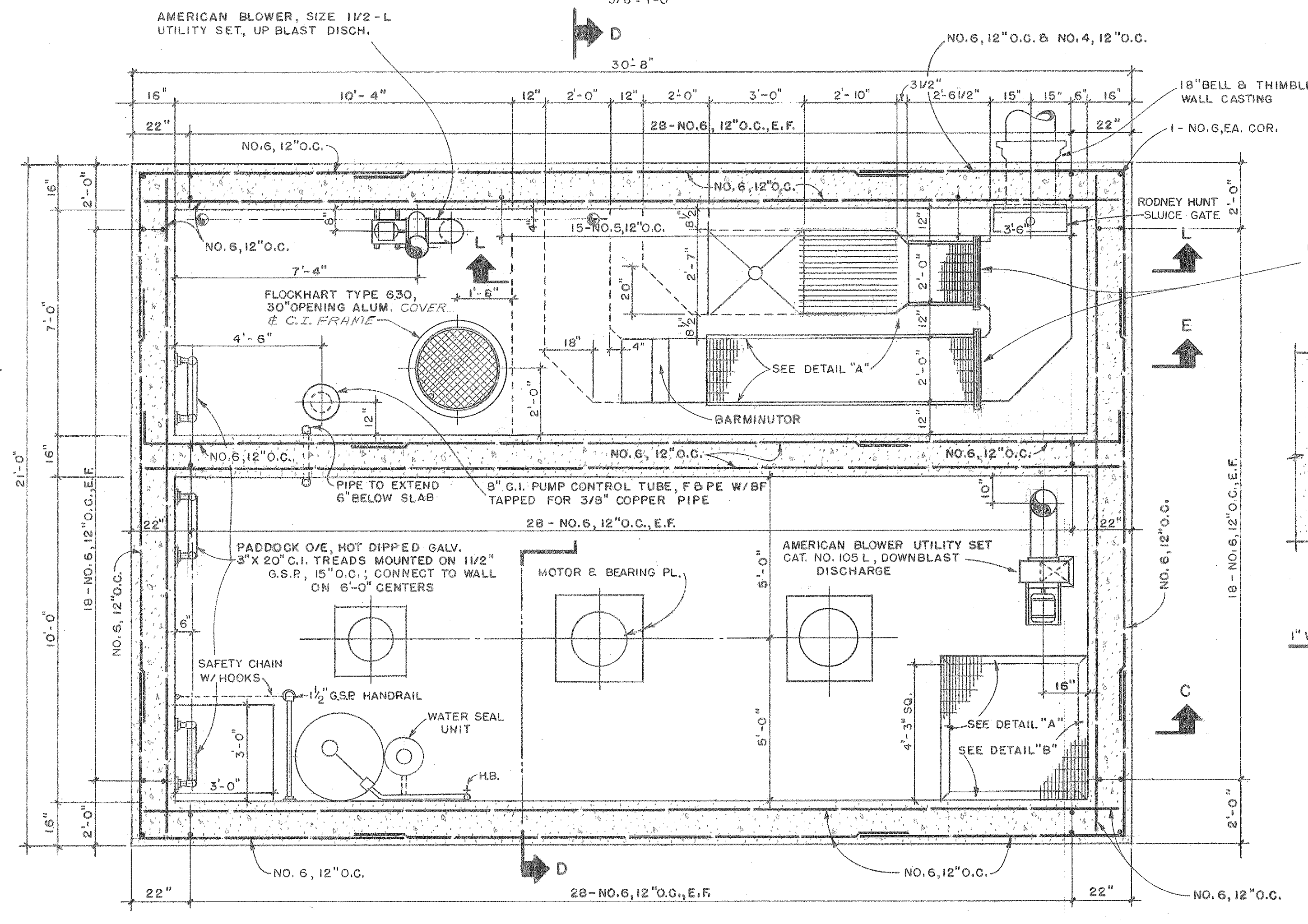
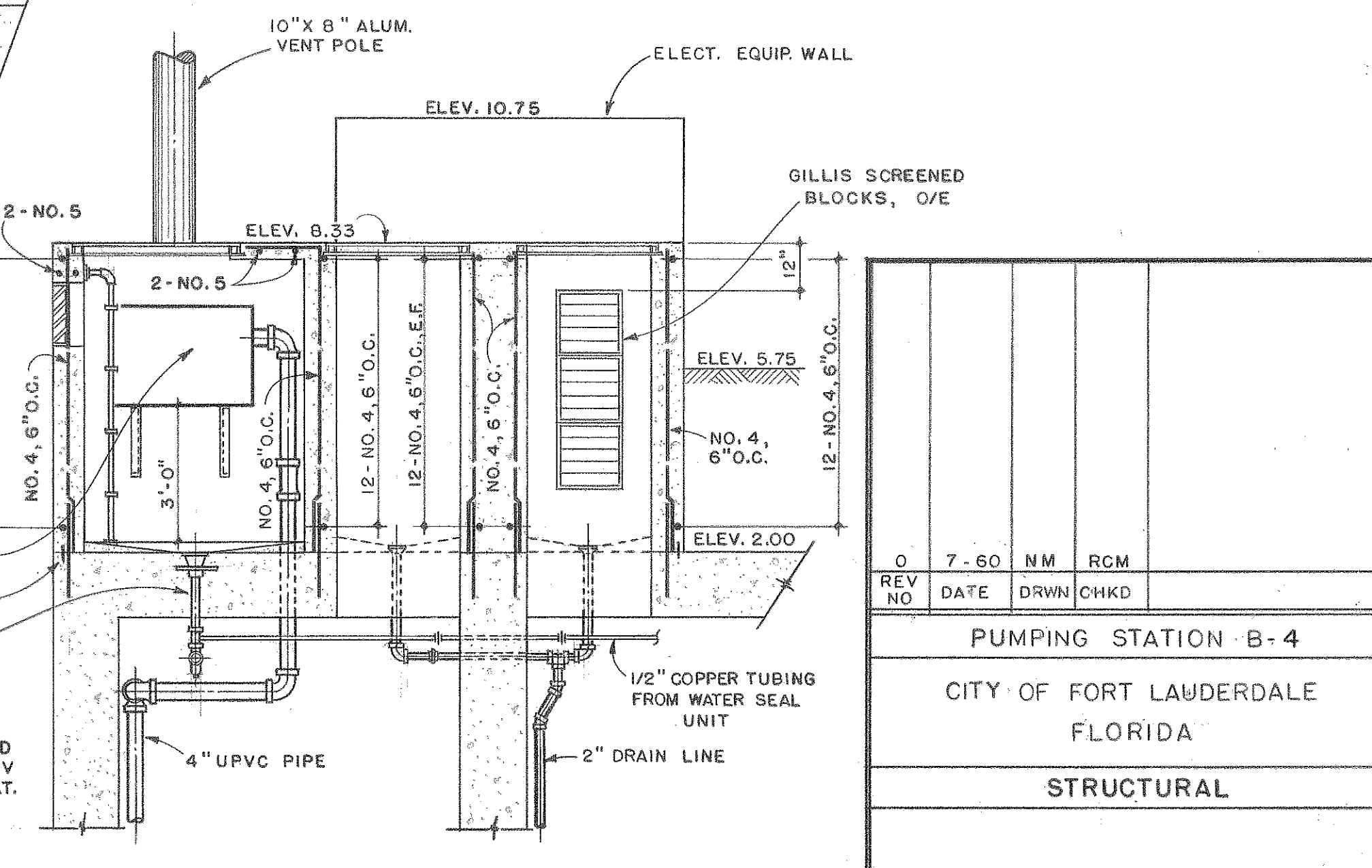
GENERAL NOTES

- 1 - FABRICATION AND ERECTION OF REINFORCING TO CONFORM TO THE CITY OF FORT LAUDERDALE BUILDING CODE, REINF. LAPS TO BE 24 BAR. DIA. & MIN. OF 18".
- 2 - ALL CONCRETE SHALL BE CLASS "B" (3,000 P.S.I.)
- 3 - SEE ELECTRICAL DRAWING & EQUIPMENT MFG'S SHOP DRAWINGS FOR SIZE & LOCATION OF EMBEDDED PARTS, BOLTS, CONDUITS, PIPE, ETC.
- 4 - CONTRACTOR SHALL PROTECT PUMPING STATION FROM FLOATAION UNTIL CONSTRUCTION IS COMPLETE & BACKFILL IN PLACE.
- 5 - HOOK ALL REINFORCING DISCONTINUED AT OPENINGS.
- 6 - CONSTRUCTION JOINTS SHALL BE AS SHOWN OR WHERE APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEYED AS DIRECTED BY THE ENGINEER.
- 7 - SUPPORT ALL SUCTION & DISCHARGE PIPING ON POURED CONC. SUPPORTS AS REQ'D TO PREVENT ANY LOAD BEING CARRIED BY THE PUMP.
- 8 - PUMP DISCHARGE CHECK VALVES TO BE GOLDEN ANDERSON SERIES 15 - FIG. 25 D.
- 9 - PUMP SUCTION & DISCHARGE PLUG VALVES TO BE DEZURIK FIG. 118 WG.
- 10 - ELEVATIONS REFER TO MEAN SEA LEVEL (U.S.C. & G.S.)
- 11 - 14" C.I. FORCE MAIN & 18" C.I. SEWER TO BE THICKNESS A.S.A. STANDARD CLASS 25.

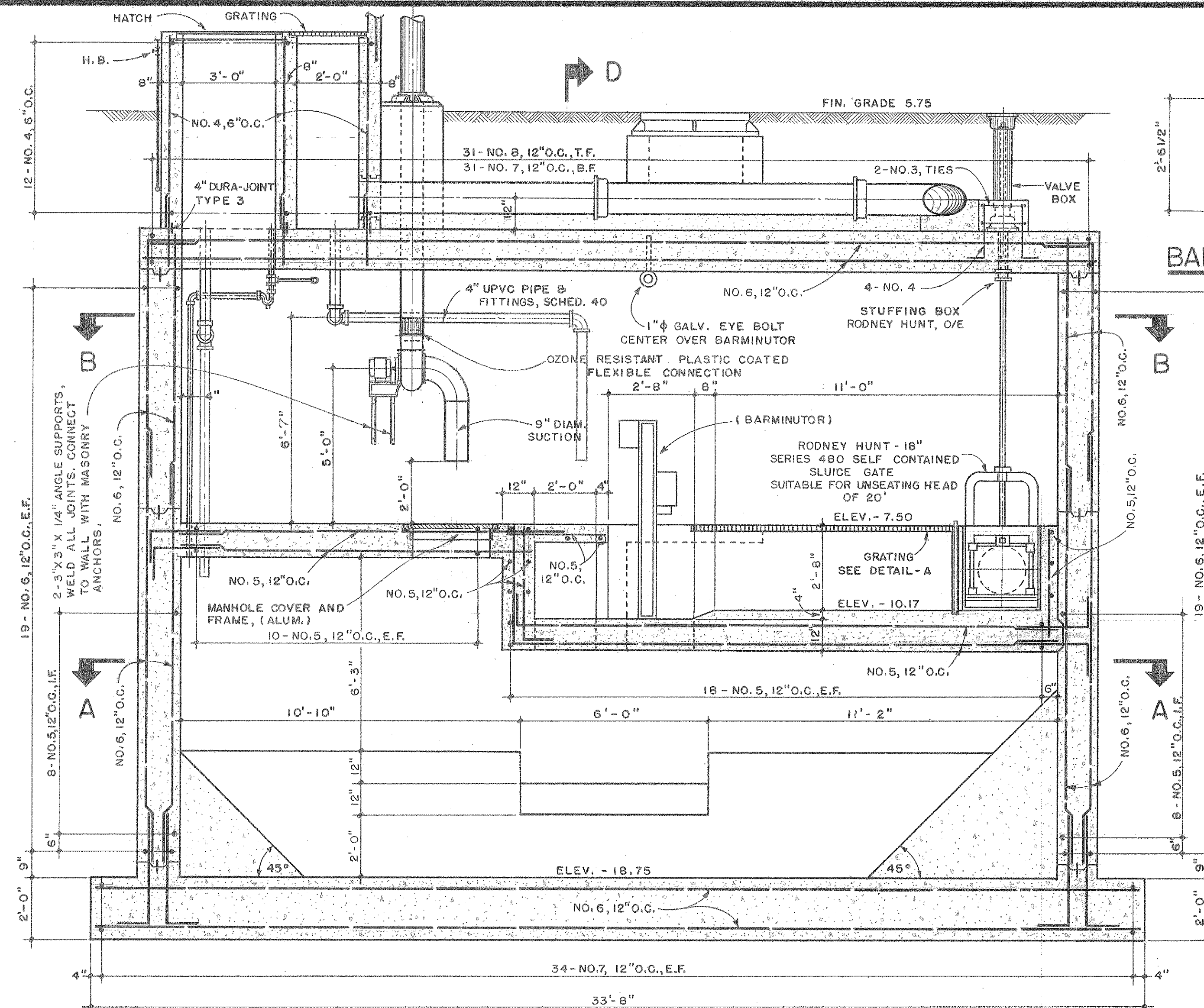
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|-------------------------|------|-------|------|
| 0 | 7/60 | NM | RCM |
| REV. NO. | DATE | DRWN | CHKD |
| PUMPING STATION B-4 | | | |
| CITY OF FORT LAUDERDALE | | | |
| FLORIDA | | | |
| LOCATION PLAN | | | |
| DATE | 7/60 | SHEET | |
| | | 100 | |



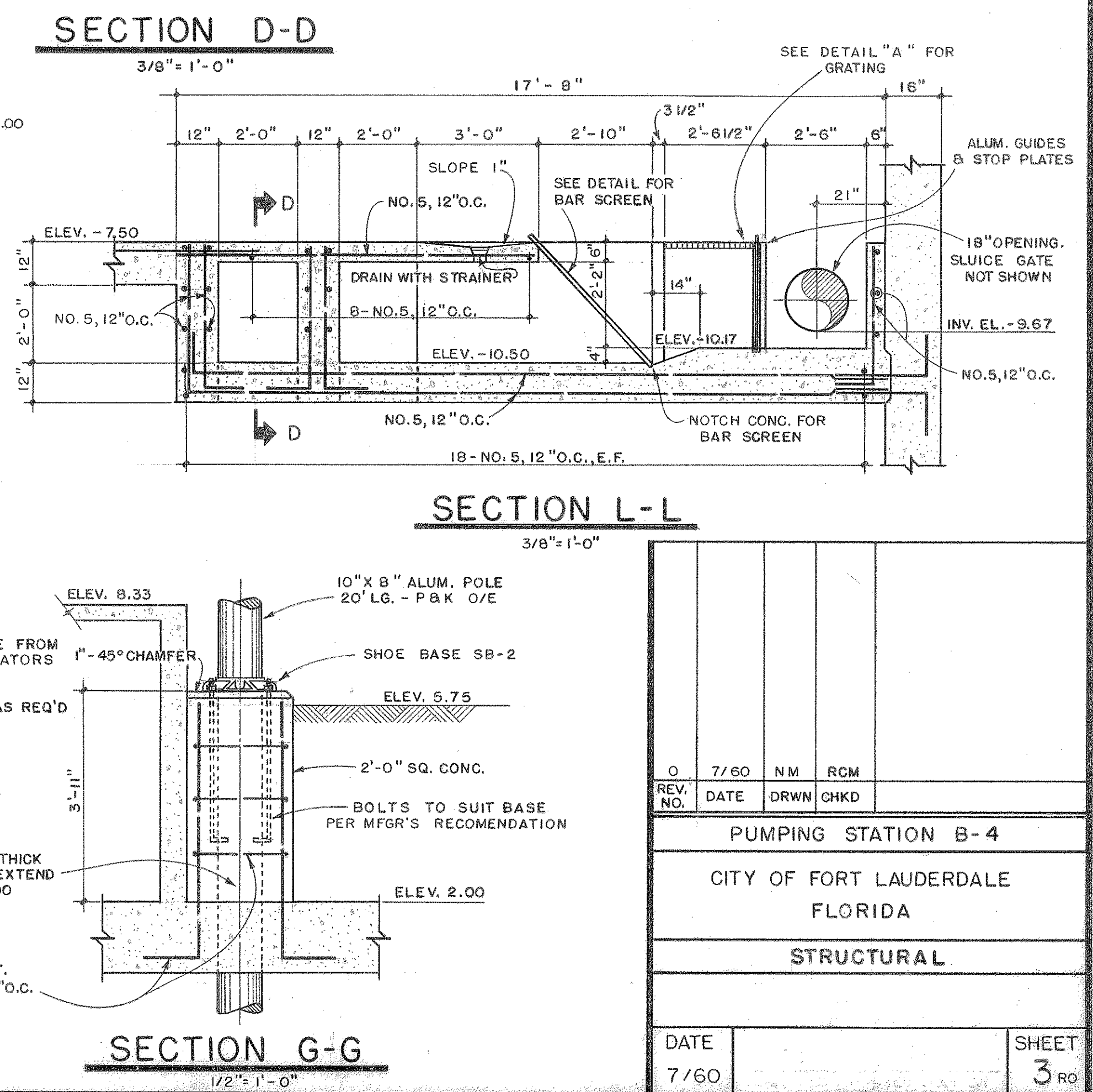
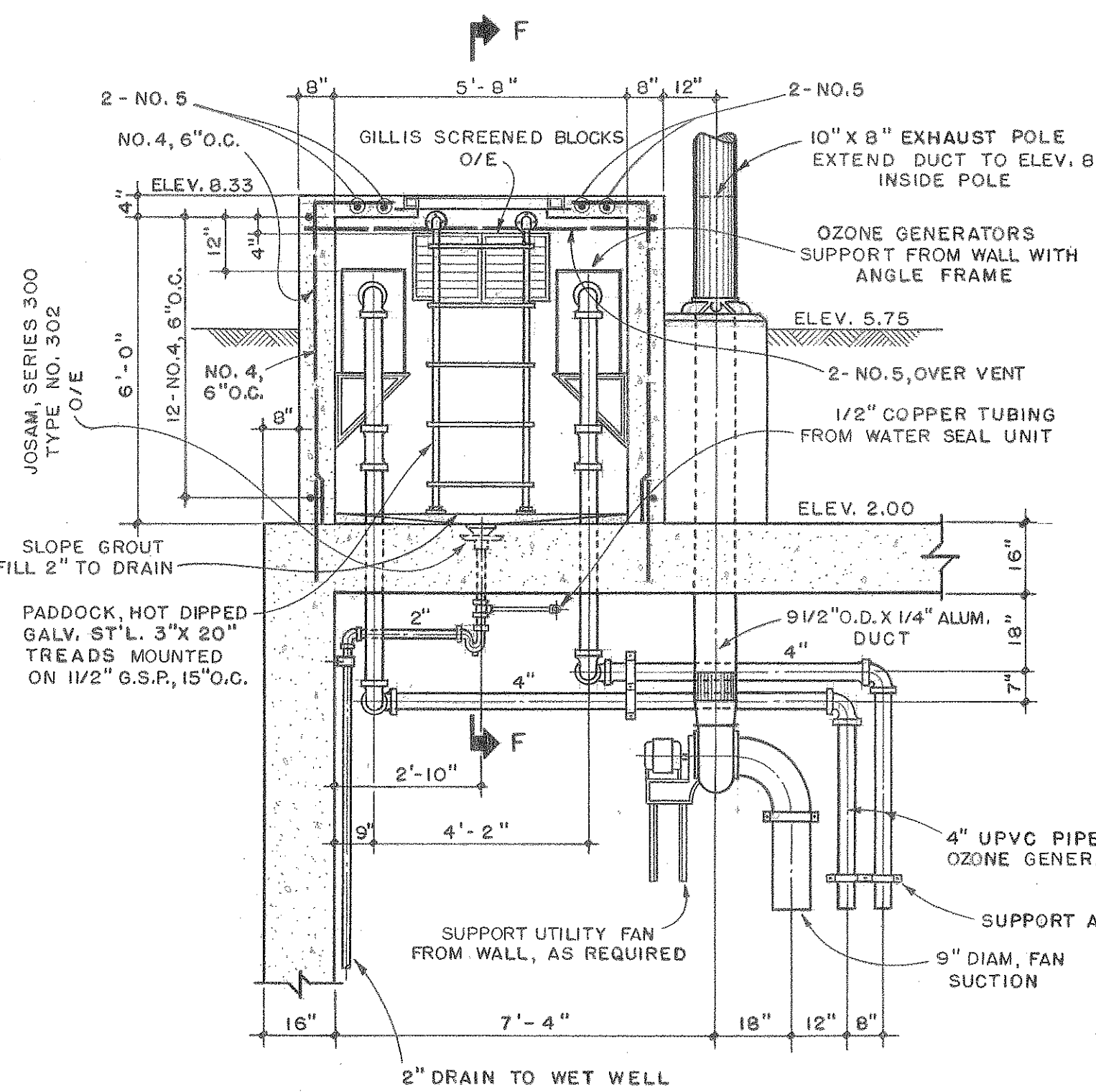
SCHEMATIC - WATER SEAL PIPING



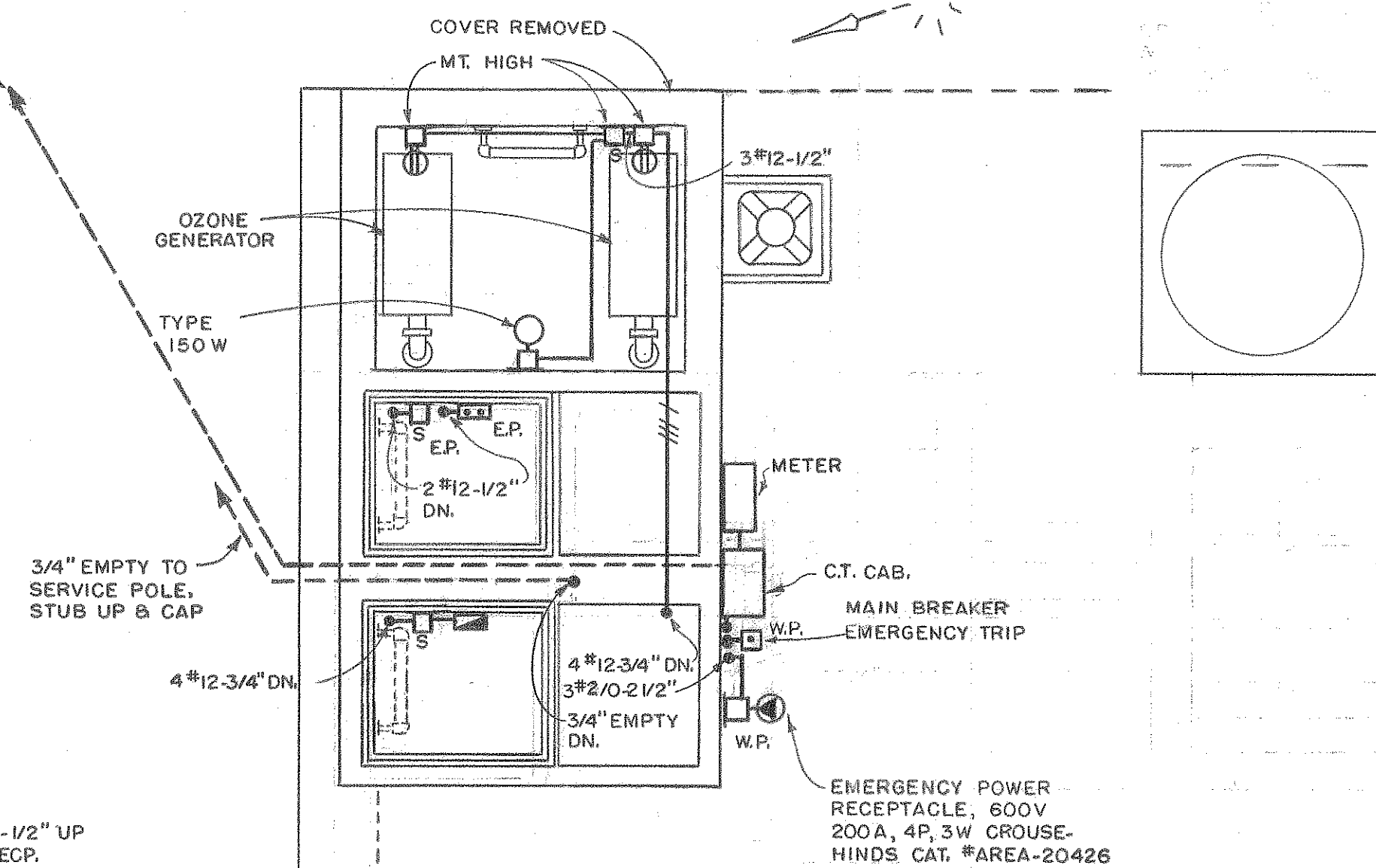
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| REV | DATE | DRWN | CHKD |
| PUMPING STATION B-4 | | | |
| CITY OF FORT LAUDERDALE | | | |
| FLORIDA | | | |
| STRUCTURAL | | | |
| DATE | 7/60 | | |
| SHEET NO. | | | 2 |



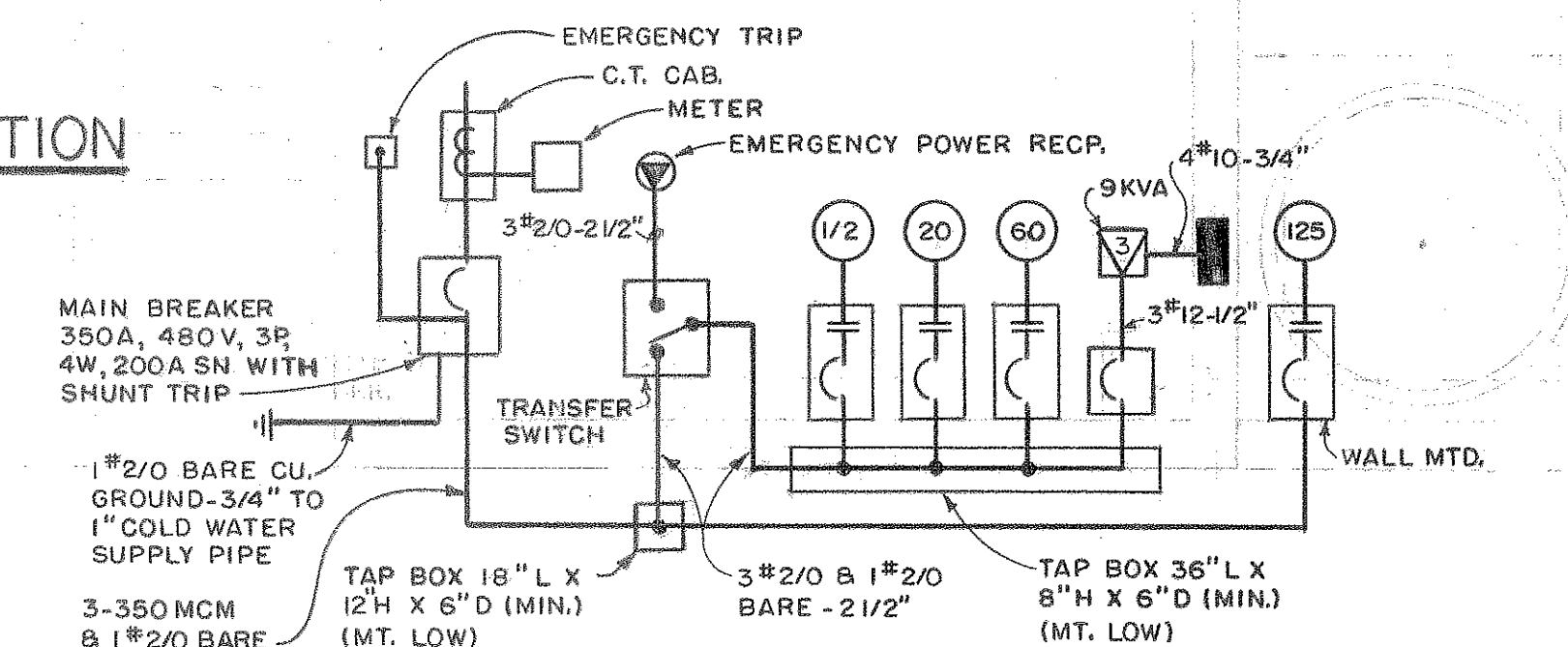
ELEV. - 11.50 HIGH WATER ALARM
ELEV. - 12.25 PUMP NO. 3
ELEV. - 13.00 PUMP NO. 2
ELEV. - 13.75 PUMP NO. 1
ELEV. - 14.50 PUMP OFF



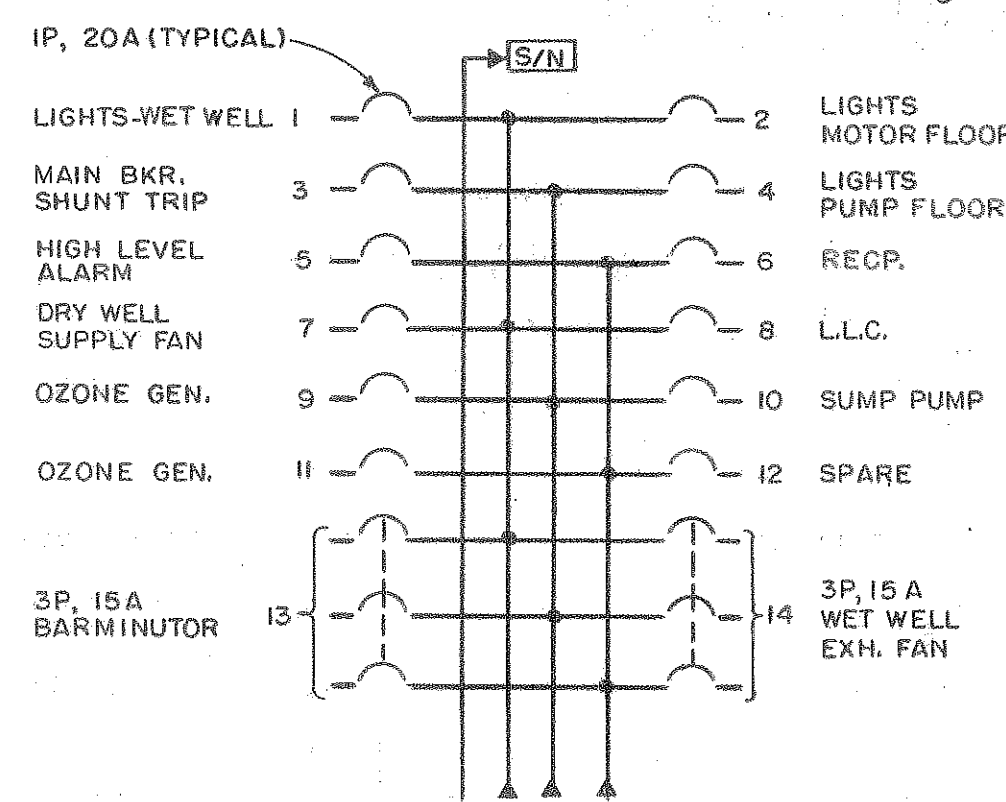
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| REV. NO. | DATE | DRWN | CHKD |
| PUMPING STATION B-4 | | | |
| CITY OF FORT LAUDERDALE | | | |
| FLORIDA | | | |
| STRUCTURAL | | | |
| DATE | 7/60 | SHEET | |
| | | 3 | |



PLAN-TOP OF STATION

$$3/8'' = 1' - 0$$


ELECTRICAL RISER DIAGRAM
NO SCALE



SCHEMATIC DIAGRAM
LIGHTING PANEL

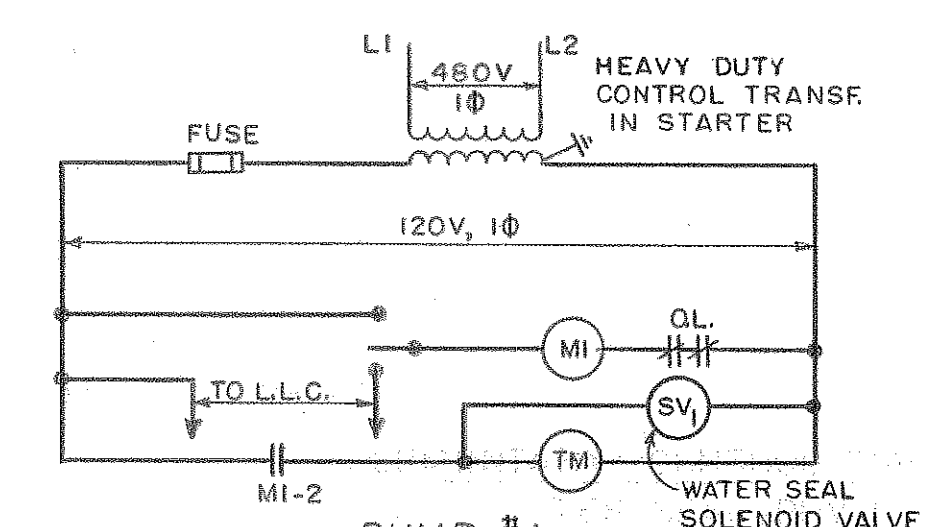
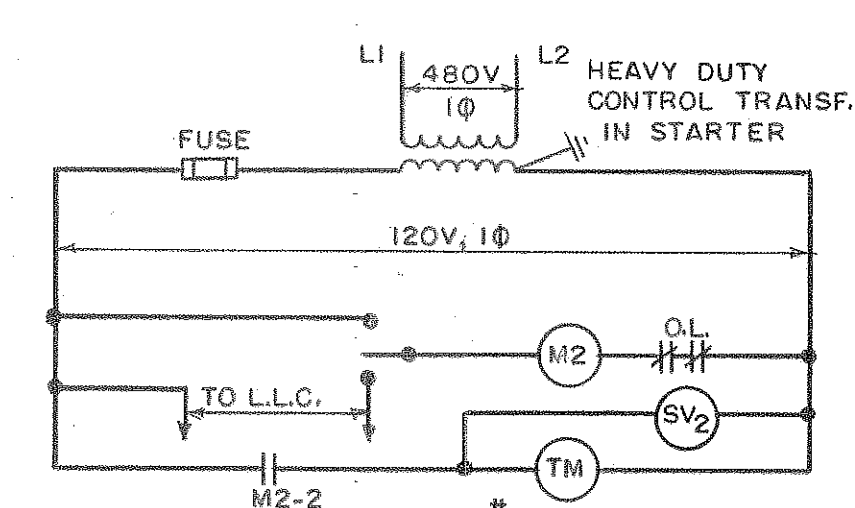
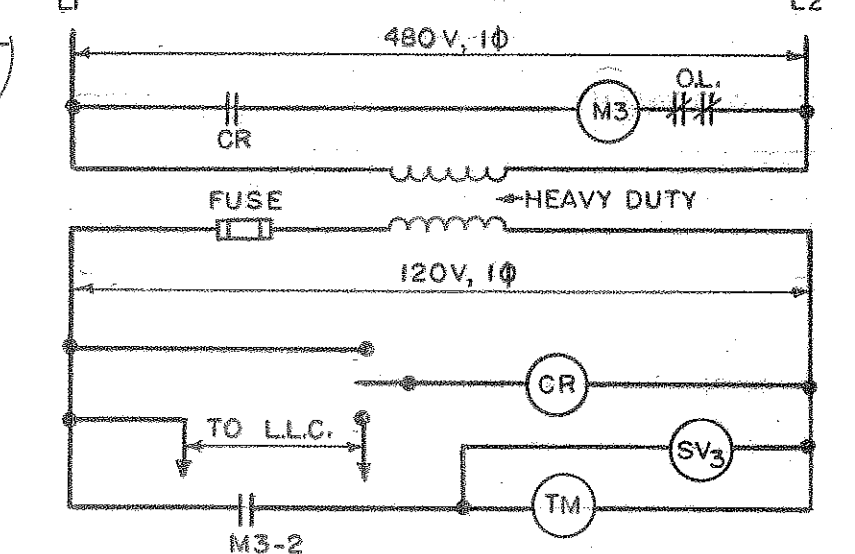


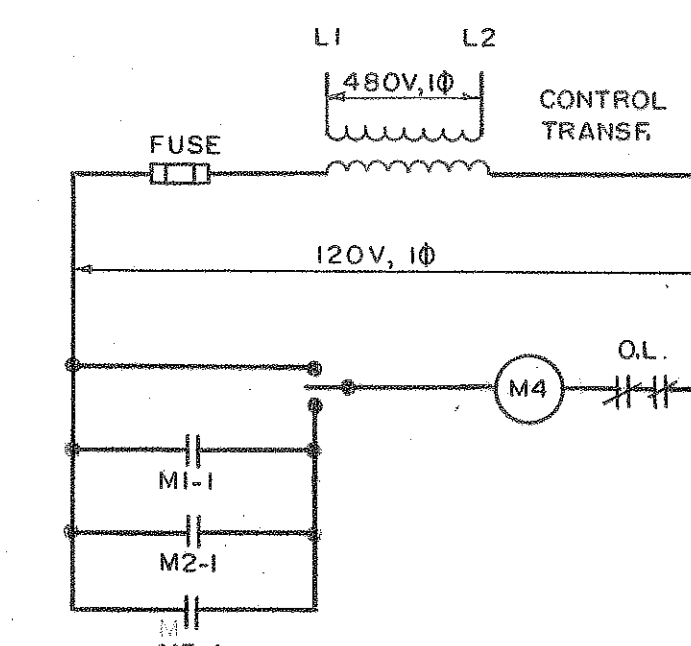
Figure 1. The effect of the concentration of the *Agrobacterium* strain on the transformation efficiency of *Agrobacterium* strain 101. The concentration of the *Agrobacterium* strain 101 was varied from 10⁶ to 10⁹ cells/ml. The transformation efficiency was determined by the number of transformants per 10⁶ cells of the *Agrobacterium* strain 101. The data are the mean \pm SD of three independent experiments.



PUMP #2
480 V. 10



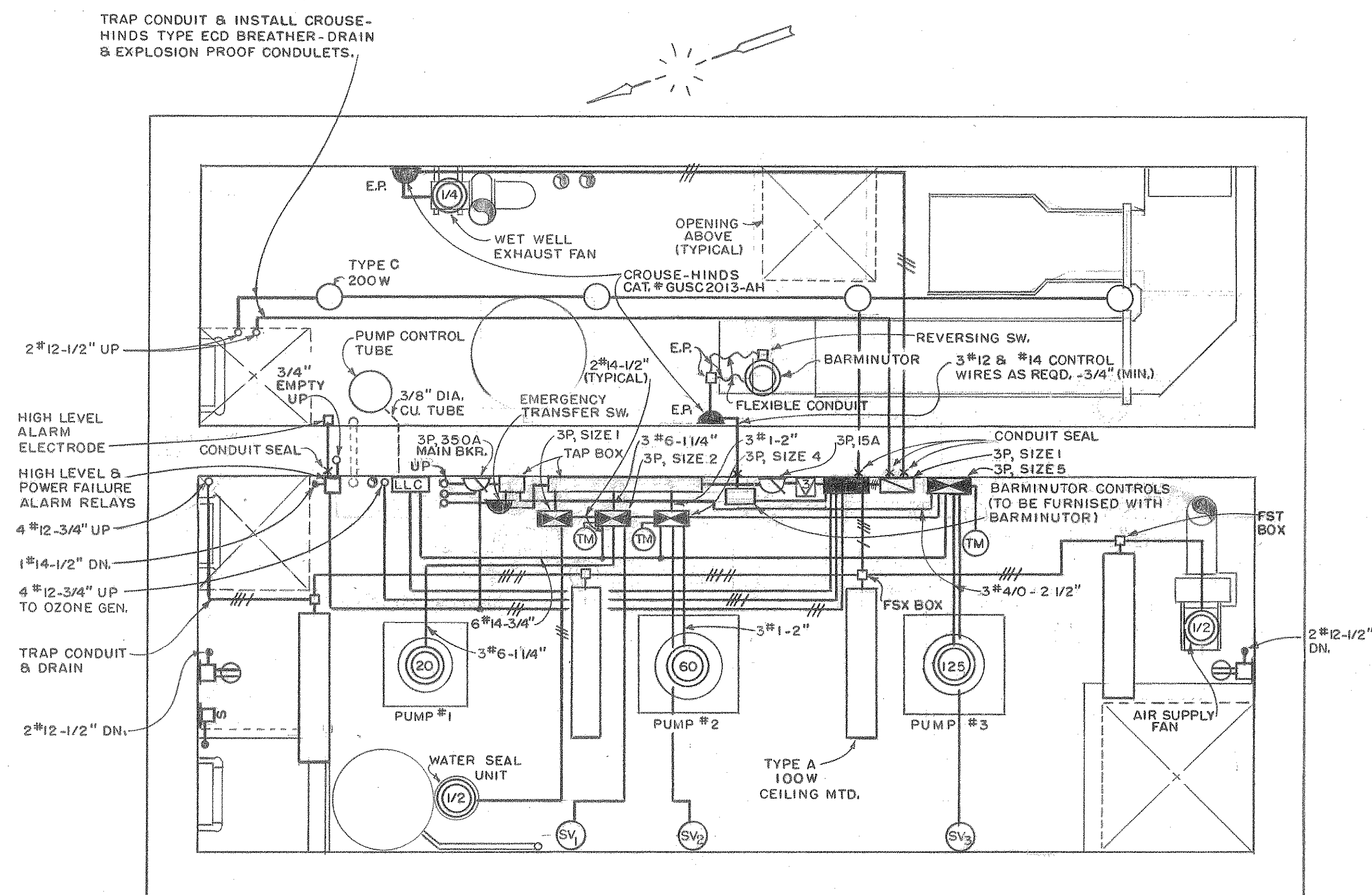
ELEMENTARY CONTROL DIAGRAM
DUPLEX PUMPING STATION
NO SCALE



ELEMENTARY CONTROL DIAGRAM
WATER SEAL PUMP
NO SCALE

- NOTES

1. ALL INSIDE, WALL MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON P-1000 UNISTRUT.
2. GROUND WIRE FROM SERVICE POLE SHALL HAVE TW INSULATION COLOR CODED GREEN. ALL OTHER GND. WIRES SHALL BE BARE.
3. MOUNT C.T. CAB. FLUSH WITH TOP OF WALL USING GALVANIZED P-1000 UNISTRUT. SUPPORT CONDUIT INDEPENDENT OF C.T. CAB.
4. ALL 440V MOTORS AND LIGHTING TRANSFORMER SHALL BE SOLIDLY GROUND IN JUNCTION BOXES WITH A BARE CONDUCTOR EQUAL IN SIZE TO THE PHASE CONDUCTORS. (#2/0 MAX. - #8 MIN.)



PLAN - MOTOR FLOOR

$$3/8'' = 1' - 0''$$

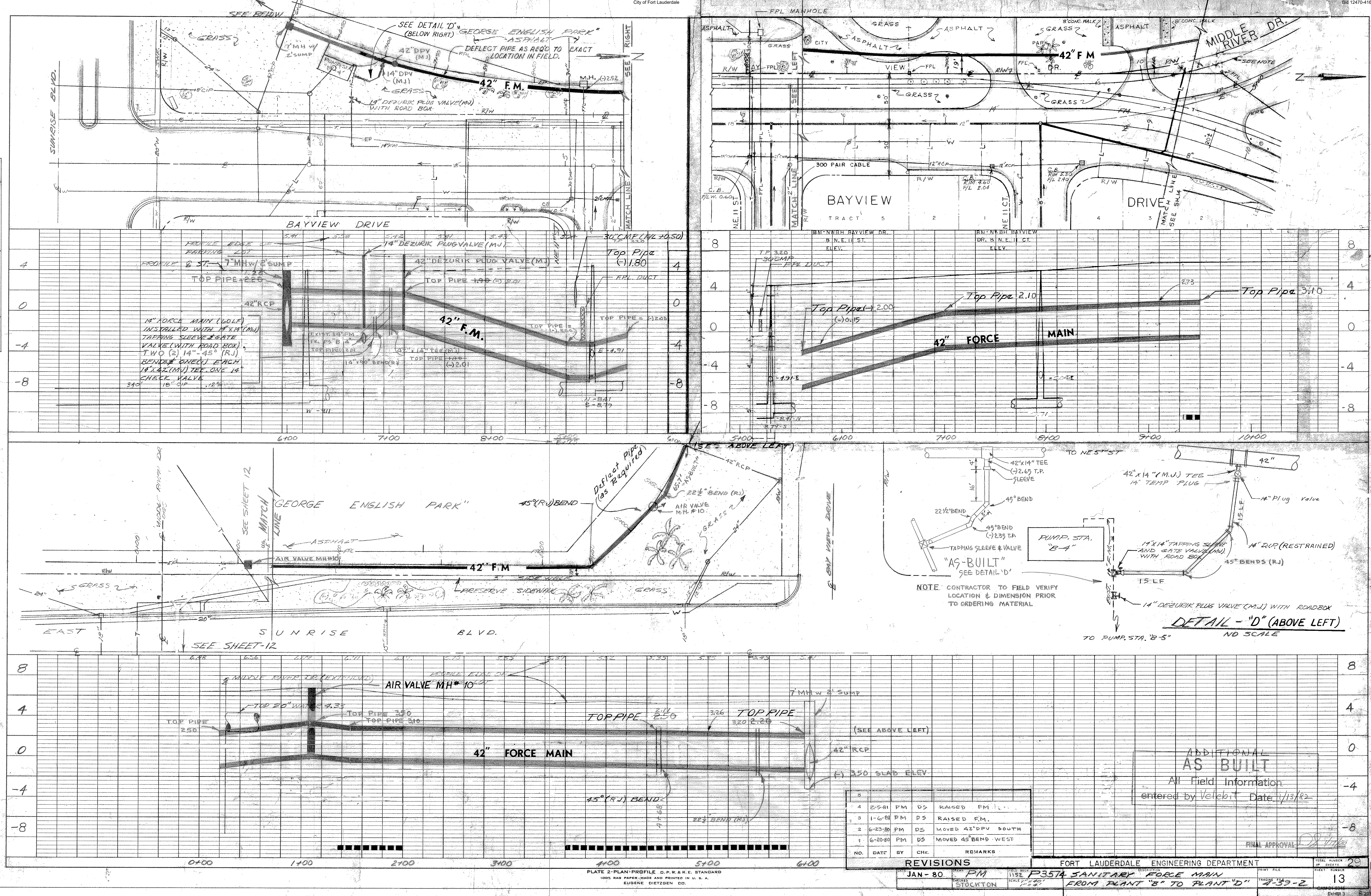
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|------------------------------------|------|------|------|--------------------|
| 0 | 8/60 | JCH | CEB | |
| REV NO | DATE | DRWN | CHKD | |
| PUMPING STATION B-4 | | | | |
| CITY OF FORT LAUDERDALE FLORIDA | | | | |
| ELECTRICAL | | | | |
| DATE 8/60 | | | | SHEET NO 4 OF 4 |

**P3574 - PS B-4 FORCE MAIN CONNECTION TO 42-INCH
FORCE MAIN (DATED AUGUST 1981)**

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

| PLAN | DATE | BY | DATE | BY |
|----------|------|----|------|----|
| SURVEYED | | | | |
| PLOTTED | | | | |
| NOTED | | | | |
| NO. | | | | |

| PROFILE | DATE | BY | DATE | BY |
|----------|------|----|------|----|
| SURVEYED | | | | |
| PLOTTED | | | | |
| NOTED | | | | |
| NO. | | | | |



PS B-4 FIELD NOTES FROM NEW FORCE MAIN INSTALLATION (DATED AUGUST 2001)

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

petd.
date 8-13-01

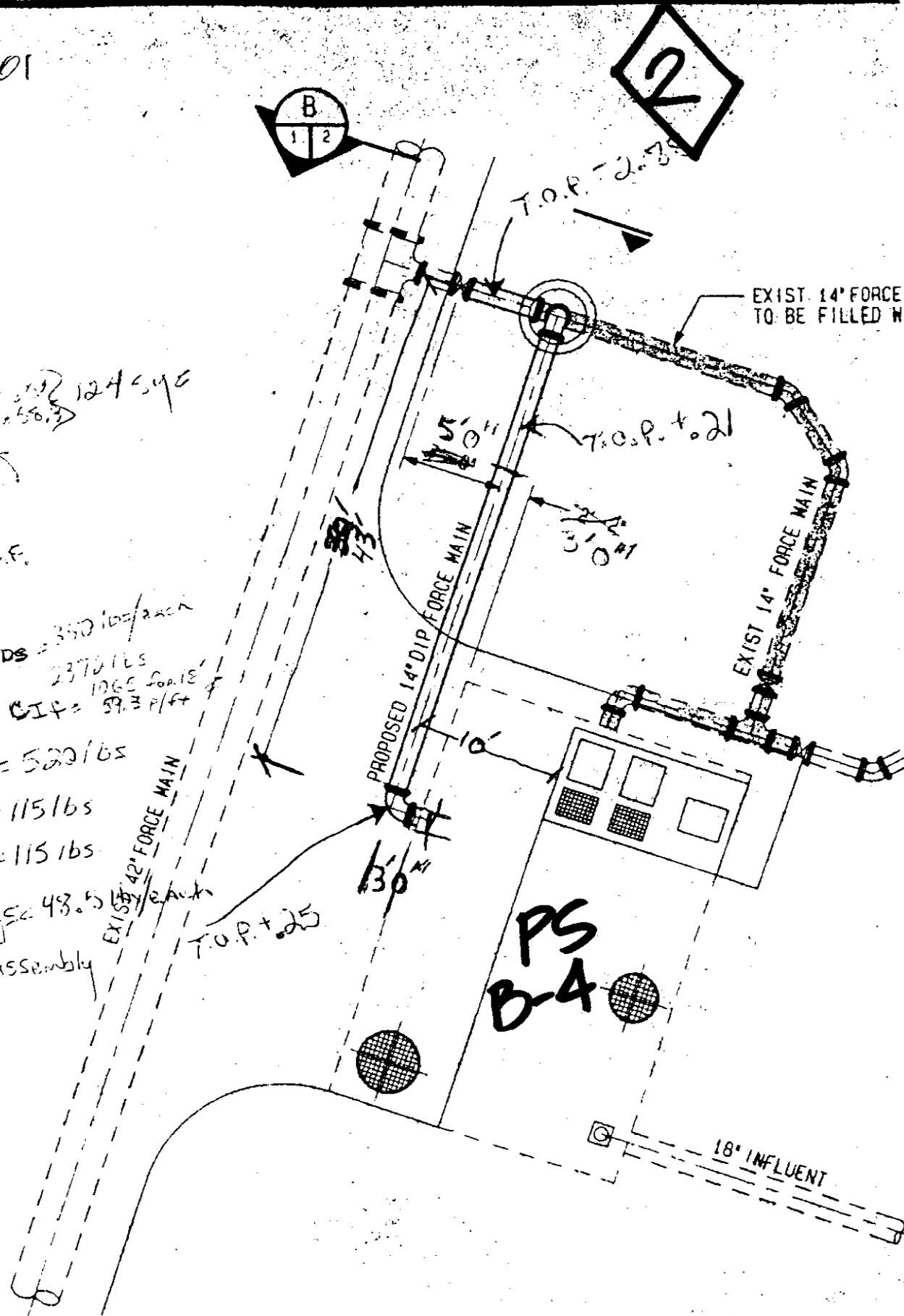
Wie immer

RR 35 x 15 = 525 } 124590
35 x 15 = 525 }

High Alt. Sarc.

500 7005f.

2- 14" MJ 90° BENDS = 350 lbs/each
2370 lbs
1065 for 18'
59.3 P/ft
40 LF 14" MJ CIP =
1- 14" MJ TEE = 520 lbs
1- 14" MJ plug = 115 lbs
1- 14" MJ cap = 115 lbs
8- 14" meg. g. f. = 48.5 lbs/each
1- AIR VALVE ASSEMBLY
EX 15' 42" FORCE MAIN
T.O.



SITE PLAN CAM2

PS B-4 FIELD NOTES FROM NEW FORCE MAIN INSTALLATION (DATED FEBRUARY 2020)

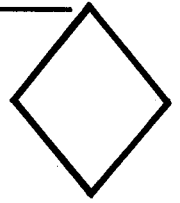
Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

CITY OF FORT LAUDERDALE
PUBLIC SERVICES DEPARTMENT
LOCATION DETAIL SHEET

CREW _____

DATE 2/2020ADDRESS Bayview/Sunrise BlvdB-4APPROVED Jud Hopping

MAP _____



(FOR OFFICE USE ONLY)

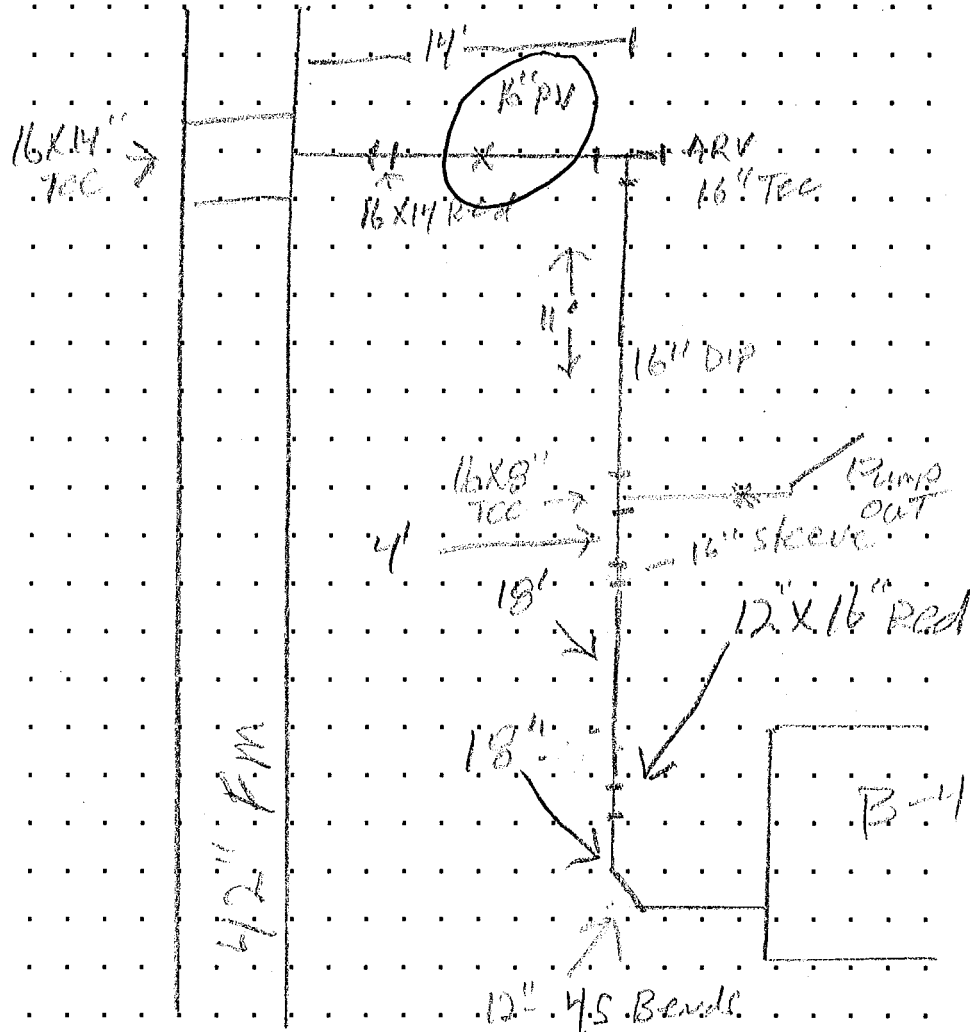


EXHIBIT H

CITY RECORD DRAWINGS FOR PUMP STATION B-5

PUMP STATION B-5 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

PS B-5 Group II-Pump Station Rehabilitation Project No. 10545 (dated December 2004)

Note: The data provided herein are provided for informational purposes only. The drawings provided represent available information regarding existing utilities within the project area. All utilities are not shown. Neither the City of Fort Lauderdale nor the Design Criteria Professional warrant the accuracy of the information contained herein. The Design Build Firm shall contact all existing utility owners, public and private, and perform exploratory excavations as required to verify the location and elevation of existing underground utilities that may interfere with the work.

CITY OF FORT LAUDERDALE

PROJECT NO. 10545

GROUP II—PUMP STATION REHABILITATION:

P.S. NOS. A-9, B-5, B-6, B-13

DECEMBER 2004

PREPARED UNDER THE DIRECTION
OF THE CITY ENGINEER
under the direct supervision of:

GEN/CIVIL/MECH

JONATHAN Z. GOLDMAN, P.E.
FLA. REG. ENG. NO. 48925

STRUCTURAL

WILLIAM R. MAPLES, P.E.
FLA. REG. ENG. NO. 49311

HVAC

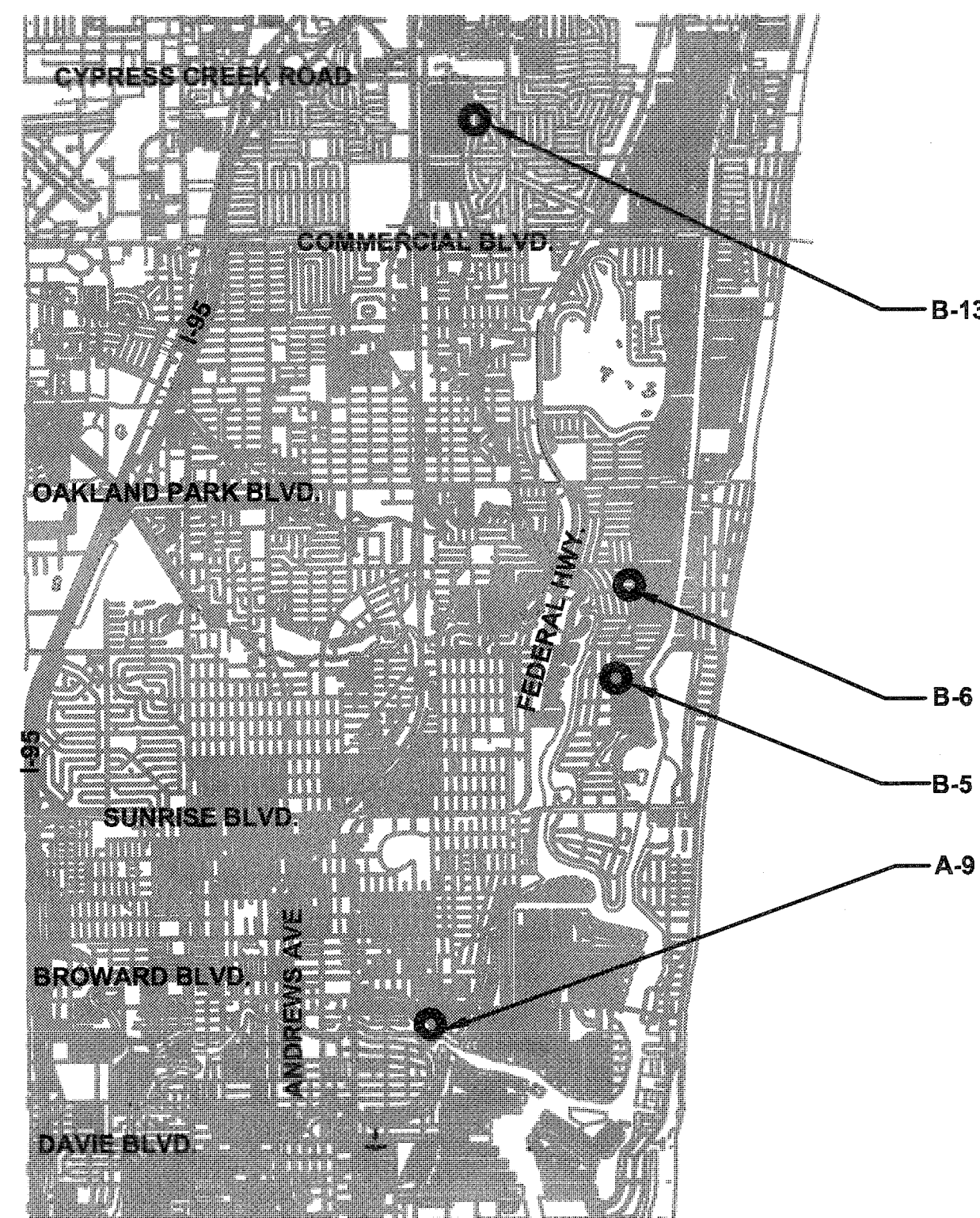
PAUL POULIOT, P.E.
FLA. REG. ENG. NO. 55318

ELECTRICAL

PAUL A. LEFAVE, P.E.
FLA. REG. ENG. NO. 48907

INSTRUMENTATION

WILLIAM C. NELSON, P.E.
FLA. REG. ENG. NO. 42017



LOCATION MAP

NOT TO SCALE

FORT LAUDERDALE CITY COMMISSION

| | |
|-------------------|-----------------------------|
| JIM NAUGLE | MAYOR - COMMISSIONER |
| CHRISTINE TEEL | COMMISSIONER - DISTRICT I |
| DEAN J. TRANTALIS | COMMISSIONER - DISTRICT II |
| CARLTON MOORE | COMMISSIONER - DISTRICT III |
| CINDI HUTCHINSON | COMMISSIONER - DISTRICT IV |



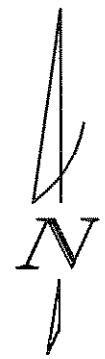
CDM
CITY OF FORT
LAUDERDALE

Camp Dresser & McKee Inc.
6365 N.W. 6th Way
Fort Lauderdale, Florida 33309
Tel: 954-776-1731
Cert. of Authorization No. 20

CDM PROJECT NO. 6017-38312-016

WS-03-19


LOT 1
BLOCK 17
CORAL RIDGE
(P.B. 21, PG. 50, B.C



CDM
consulting
engineering
construction
operations

Camp Dresser & McKee Inc.
6365 N.W. 6th Way
Fort Lauderdale, Florida 33309
Tel: 954-776-1731
Cert. of Authorization No. 20

McLAUGHLIN ENGINEERING COMPANY (LB#285)
400 N.E. 3rd Avenue FORT LAUDERDALE, FLORIDA
PHONE: (954) 763-7611
FAX: (954) 763-7615

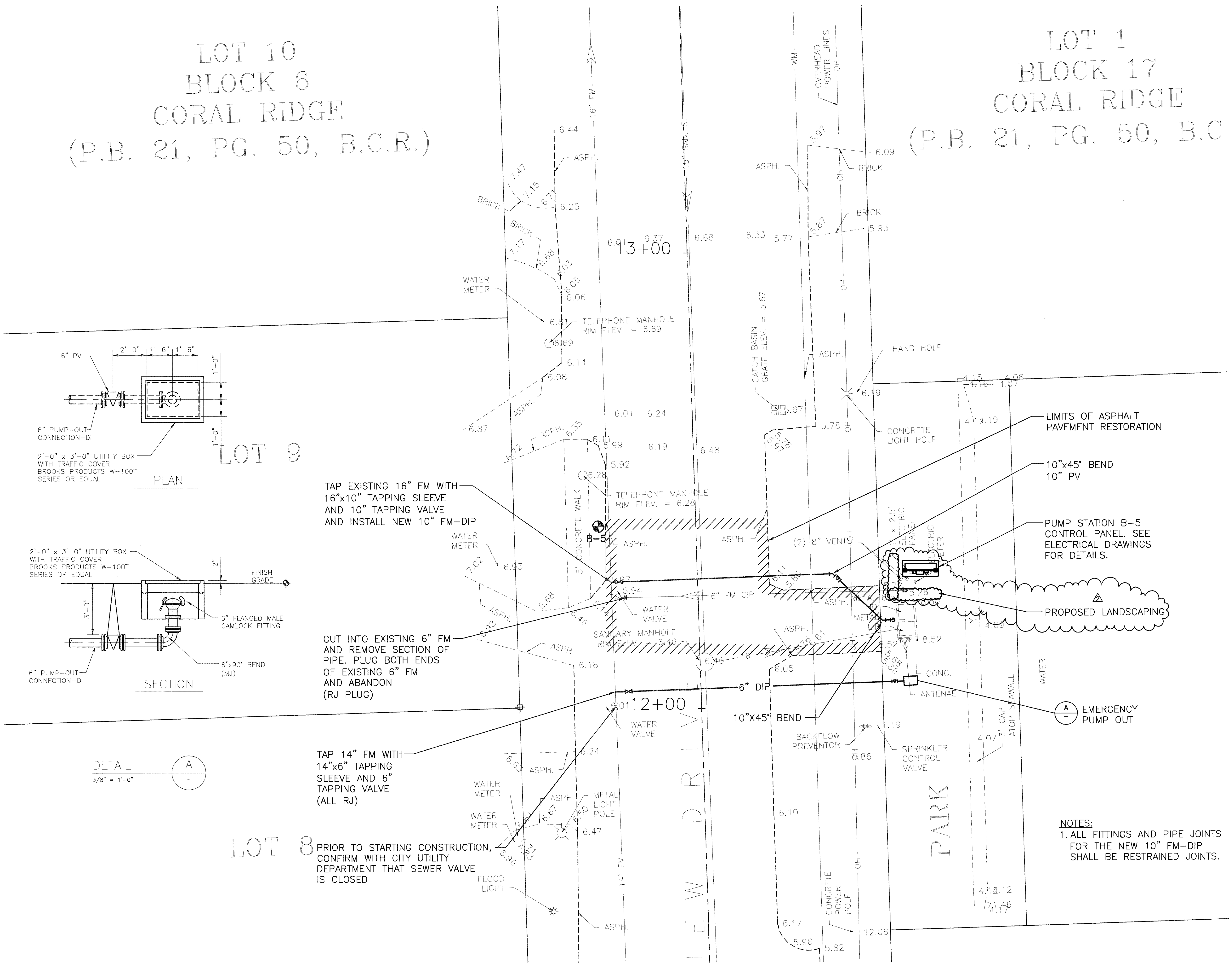


CITY OF FORT LAUDERDALE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION
FORT LAUDERDALE, FLORIDA

| REVISIONS | | NO. | DATE | BY | CHK'D | DESCRIPTION |
|-----------|----------|------|------|-----|-------|-------------------------------------|
| | 1 | 2/05 | ALN | EAH | | GENERAL REVISIONS ADDENDUM NO. 1 |
| | <u>A</u> | 6/05 | AGC | JZG | | GENERAL REVISIONS |
| | | | | | | |
| | | | | | | |

PROJECT #10545
GROUP II PUMP STATION REHAB.
P.S. NOS. A-9, B-5, B-6, B-13
PUMP STATION B-5 -- SITE PLAN

NO. OF SHEETS: 61
SHEET NO.: C-2R
CAD FILE NO. 0545-C02-061SITE
FILE NO. WS-03-19



NOTES:
1. ALL FITTINGS AND PIPE JOINTS
FOR THE NEW 10" FM-DIP
SHALL BE RESTRAINED JOINTS.

CDM PROJECT NO. 6017-38312-016


LOT 1
BLOCK 17
CORAL RIDGE
(P.B. 21, PG. 50, B.C.R.)

LOT 8



CDM
consulting
engineering
procurement
operations

Camp Dresser & McKee Inc.
6365 N.W. 6th Way
Fort Lauderdale, Florida 33309
Tel: 954-776-1731
Cert. of Authorization No. 20



CITY OF FORT LAUDERDALE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION
FORT LAUDERDALE, FLORIDA

| REVISIONS | | | | |
|-----------|------|-----|-------|--------------------|
| NO. | DATE | BY | CHK'D | DESCRIPTION |
| 1 | 6/05 | RAJ | RTS | CONTROL PANEL REV. |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

PROJECT #10545
GROUP II PUMP STATION REHAB.
P.S. NOS. A-9, B-5, B-6, B-13
PUMP STATION B-5
ELECTRICAL SITE PLAN

NO. OF SHEETS: 61

SHEET NO.: E-3R

CAD FILE NO.
10545-E03-061SITE

FILE NO.
WS-03-19

CDM PROJECT NO. 6017-38312-016

EXHIBIT I

CITY OF FORTLAUDERDALE

NOISE ORDINANCE

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

Chapter 17 - NOISE CONTROL^[1]

Footnotes:

--- (1) ---

Editor's note— Ord. No. C-08-37, § 1, adopted July 15, 2008, repealed Ch. 17, in its entirety, which pertained to noise control. Section 2 of said ordinance enacted provisions designated as a new Ch. 17 to read as herein set out. See also the Code Comparative Table.

Cross reference— Permit to operate loudspeaking device on aircraft, § 7-9; noise abatement for aircraft, § 7-160; sounding of railroad whistles and horns, § 16-17; sound devices on vehicles and aircraft, § 16-78; nuisances, Ch. 18.

State Law reference— Municipal Home Rule Powers Act, F.S. ch. 166; motor vehicle noise, F.S. § 316.293.

Sec. 17-1. - Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

A-weighted sound level means the sound level as measured with the A-weighting network on a sound level meter meeting the standards set forth in the American National Standards Institute (ANSI) S1.4-1983 or its successors. The unit of reporting is dBA. Sounds measured with the "A" weighting network approximate the response of human hearing when measuring sounds of low to moderate intensity without an amplified low frequency component.

Ambient sound level means that measured value which represents the summation of the sound from all of the discrete sources affecting a given site at a given time, exclusive of extraneous sounds and those from the source under investigation. Ambient sound level is synonymous with background sound level. Ambient sounds are differentiated from extraneous sounds by the fact that the former are of a more steady state, although they may not be continuous.

Amplified sound means the reproduction of sound from any radio, stereo, CD player, DVD player, microphone, drum, turn table, audio or visual equipment, musical instrument, sound equipment, sound amplification device, television set, exterior loudspeakers, bullhorn or any similar device.

Backup alarm means an audible safety device designed to alert people that a vehicle is operating in reverse, meeting Occupational Safety and Health Administration (OSHA) rules at 29 CFR Part 1926.601(b)(4) and 29 CFR Part 1026.602(a)(9), which require, in part, that: the vehicle has a reverse signal alarm audible above the surrounding noise level.

C-weighted sound level is the sound level as measured using the "C" weighting network with a sound level meter meeting the standards as set forth in ANSI S1.4-1983 or its successors. The unit of reporting is dBC. The "C" weighting network is more sensitive to low frequencies than the "A" weighting network.

Continuous sound means any sound with a duration of more than one (1) second, as measured with a sound level meter set to the "slow" meter response.

Decibel means a logarithmic (dimensionless) unit of measure often used in describing the amplitude of sound. Decibel is denoted as dB.

Emergency energy release device means a device used specifically to release excess energy on a non-scheduled basis as necessary for purposes of safety.

Extraneous sound means a sound of high intensity and relatively short duration which is neither part of the ambient sound, nor comes from the sound source under investigation.

Impulsive sound means a sound that has a duration of less than one (1) second and comes from the sound source under investigation.

LMAX means the maximum sound level measured during the sound measurement period.

Mechanical device means any device that transmits or modifies energy.

Moped means any vehicle with pedals to permit propulsion by human power, having a seat or saddle for the use of the rider and designed to travel on not more than three (3) wheels; with a motor rated not in excess of two (2) brake horsepower and not capable of propelling the vehicle at a speed greater than thirty (30) miles per hour on level ground; as defined in F.S. § 316.03, as may be amended from time to time.

Motor vehicle means any self-propelled vehicle not operated upon rails or guideway, but not including any bicycle, motorized scooter, electric personal assistive mobility device, or moped; as defined in F.S. § 316.03, as may be amended from time to time.

Motorboat means any vessel equipped with machinery for propulsion, irrespective of whether the propulsion machinery is on actual operation; as defined in F.S. § 327.02, as may be amended from time to time.

Motorcycle means any motor vehicle having a seat or saddle for the use of the rider and designed to travel on not more than three (3) wheels in contact with the ground, but excluding a tractor or moped; as defined in F.S. § 316.03, as may be amended from time to time.

Motorized scooter means any vehicle not having a seat or saddle for the use of the rider, designed to travel on not more than three (3) wheels, and not capable of propelling the vehicle at a speed greater than thirty (30) miles per hour on level ground; as defined in F.S. § 316.03, as may be amended from time to time.

Mixed-use property means more than one (1) type of use in a building or set of buildings; some combination of residential and non-residential use.

Multifamily dwelling means any building occupied or intended to be occupied by more than two (2) families, living separately and with separate kitchens or facilities for cooking on the premises. This includes apartments, condominiums and coach homes, but does not include hotels, motels, bed and breakfast, townhouse, or cluster dwellings.

Noise means, for the purposes of this chapter, any sound that is in violation of any provision of this chapter.

Noise control officer means environmental inspectors, building and zoning inspectors, code enforcement officers and police enforcement personnel authorized to enforce provisions of this code.

Noise disturbance means any sound which is unreasonably loud, raucous, or jarring to reasonable persons of ordinary sensibilities, or any sound which affects the health, safety, or welfare of other persons, or exceeds the noise levels as defined in section 17-6.

Plainly audible means any sound that can be detected by a person using his or her unaided hearing faculties.

Public right-of-way and *public space* means land conveyed or dedicated by plat, deed, easement or other conveyance which is devoted to, required for or intended for the use by the public as a means of public traverse and other public purposes.

Real property line means either (a) the boundary line of a parcel; (b) the vertical and horizontal boundaries of a dwelling unit that is part of a multifamily dwelling; or (c) on a mixed-use property, the interface between the two (2) portions of the property on which different categories of activity are being performed.

Single-family dwelling is a dwelling unit designed for or occupied by one (1) family and includes standard, detached, and attached dwellings.

Single-family dwelling (attached) is a one-family dwelling attached to another one-family dwelling by a common vertical wall and where each unit is located on a separate plot. Single-family dwellings that are attached include duplex, cluster, and townhouse dwellings.

Sound means oscillations in pressure in a medium with elasticity and viscosity, such as air, that evoke auditory sensation in the human ear.

Sound level meter means an instrument that measures sound and conforms to ANSI S1.4-1983 or its successor publications.

Total sound level means that measured level which represents the summation of the sounds from the sound source under investigation and the ambient sounds which affect a given place at a given time, exclusive of extraneous sound sources.

Vessel means every watercraft, barge, and airboat, used or capable of being used as a means of transportation on water, as defined in F.S. § 327.02, as may be amended from time to time.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-2. - Penalties.

Any person who violates any provision of this chapter and who shall be found violating or found in violation of any provision of this chapter shall be subject to the penalties as prescribed in section 1-6 and/or Chapter 11 of this Code.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-3. - Noise control officers.

- (a) The noise control program established by this chapter shall be administered and enforced by noise control officers.
- (b) The noise control officers shall have the power to investigate and pursue possible violations of this ordinance and initiate enforcement under this chapter.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-4. - Sound level measurement.

Sound level measurement shall be made with a sound level meter using the "A" weighting scale or "C" weighting scale, as specified in this chapter for the specific sound source being investigated.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-5. - General prohibitions.

It shall be unlawful for any person to make or continue or cause to be made or continued any noise disturbance within the limits of the city.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-6. - Maximum permissible dBA sound levels.

Notwithstanding any other provision in this chapter, it shall be unlawful, except as expressly permitted herein, to cause, allow, or permit the making of any sound which exceeds the limits set forth in this section.

TABLE I**MAXIMUM PERMISSIBLE SOUND LEVEL LIMITS dBA**

| USE | TIMES | OUTDOOR | INDOOR |
|-------------|--|-------------------|------------------|
| Residential | 7:00 a.m. to 10:00 p.m. 10:00 p.m. to 7:00 a.m. | 60 dBA* 50 dBA | 45 dBA 35 dBA |
| Commercial | 24 hours | 65 dBA | 55 dBA |
| Industrial | 24 hours | 75 dBA | 65 dBA |

* If the residential use is within a commercial, industrial, or mixed use, or within two hundred (200) feet of such use, the outdoor sound level limit is sixty-five (65) dBA between 7:00 a.m. to 10:00 p.m.

Sound level measurements shall be taken as follows:

- a. The sound level limit for the complainant's use shall apply.
 - b. Outdoor sound level measurements shall be taken on or within the real property line of the complainant.
 - c. Indoor sound level measurements shall apply when the sound source is on or within the same parcel of land as the complainant or when the real property line between the sound source and the complainant is a common wall, floor, or ceiling. Indoor sound level measurements shall be taken within the premises of the complainant.
 - d. Three (3) measurements of the normal, usual operation of the sound source under investigation shall be taken. The metric that shall be applied is LMAX. Each of the three (3) measurements shall be no less than thirty (30) seconds in duration, and all three (3) measurements shall be taken within any one-hour period. If the sound source under investigation is of a total duration of less than ninety (90) seconds, one thirty-second measurement shall be sufficient.
1. *Impulsive sound:*
 - a. Between the hours of 7:00 a.m. and 10:00 p.m. daily, impulsive sounds which occur ten (10) or more times in any one (1) hour shall not exceed the permissible sound level limits as set forth in Table I, and impulsive sounds which occur less than four (4) times in any one-hour period shall not equal or exceed twenty (20) decibels above the permissible sound level limits as set forth in Table I.
 - b. Between the hours of 10:00 p.m. and 7:00 a.m. daily, impulsive sounds which occur four (4) or more times in any one (1) hour shall not exceed the permissible sound level limits as set forth in Table I, and impulsive sounds which occur less than four (4) times in any one-hour period shall not equal or exceed twenty (20) decibels above the permissible sound level limits as set forth in Table I.
 2. *Steady pure tones:* If the sound source under investigation is a mechanical device, excluding HVAC equipment on residential property, and is emitting a sound with a steady tonal quality which does not fluctuate more than plus or minus three (3) dBA, the permissible sound level limits in Table I shall be reduced by five (5) dBA.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-7. - Specific restrictions.

1. *Amplified sound.* No person shall cause, allow, or permit the operation of any amplified sound device from the following use districts or locations in the following manner:
 - a. *Residential use:*
 - i. Sound shall not be plainly audible for a period of one (1) minute or longer at a distance of twenty-five (25) feet or more when measured from the source property line between the hours of 10:00 p.m. and 7:00 a.m. daily.
 - ii. Sound shall not be plainly audible for a period of one (1) minute or longer at a distance of fifty (50) feet or more when measured from the source property line between the hours of 7:00 a.m. and 10:00 p.m. daily.
 - b. *Rights-of-way.* Sound shall not be plainly audible at a distance of twenty-five (25) feet or more from a motor vehicle or any other sound source.
 - c. *Special entertainment overlay district.* When measured at a distance of five (5) feet from the building, structure or establishment from which the sound is emanating:
 - i. *Sound shall not exceed:*
 1. Eighty-five (85) dBA or ninety-five (95) dBC Monday through Thursday from 12:00 p.m. to 12:00 a.m. the following day:
 2. Seventy (70) dBA or eighty (80) dBC Monday through Thursday from 12:00 a.m. to 2:00 a.m.
 3. Sixty-five (65) dBA or seventy-five (75) dBC Monday through Thursday from 2:00 a.m. to 12:00 p.m.
 - ii. *Sound shall not exceed:*
 1. Eighty-five (85) dBA or ninety-five (95) dBC Friday through Sunday and legal holidays (as provided by state law), from 12:00 p.m. to 1:00 a.m. the following day:
 2. Seventy (70) dBA or eighty (80) dBC Friday through Sunday and legal holidays (as defined by state law), from 1:00 a.m. to 3:00 a.m.
 3. Sixty-five (65) dBA or seventy-five (75) dBC Friday through Sunday and legal holidays (as defined by State law), from 3:00 a.m. to 12:00 p.m.
 - d. *Commercial, mixed-use, or industrial uses.* No person shall cause, allow, or permit the operation of any amplified sound device in such a manner that it exceeds the following sound level limits:
 - i. From 12:00 p.m. to 10:00 p.m. daily: sound levels shall not exceed sixty (60) dBC when measured within the premises of a complainant.
 - ii. From 10:00 p.m. daily to 12:00 p.m. the following day: sound levels shall not exceed fifty-five (55) dBC when measured within the premises of a complainant.
 - iii. Sound level limits in Table 1 shall apply when sound level measurements are taken outdoors at or within the property line of the complainant.
2. *Animals.* Unless unreasonably provoked, it shall be unlawful for any person to own, keep, possess or maintain any domesticated animal which vocalizes (howls, yelps, barks, squawks, or other noise) and the vocalizing is plainly audible at or within the property line of the complainant; and:
 - a. The vocalizing is for more than five (5) minutes without interruptions, defined as an average of four (4) vocalizations per minute; or
 - b. The vocalizing is two (2) times or more per minute for twenty (20) consecutive minutes.
3. *Commercial sanitation operations.* No person shall cause, allow, or permit the loading, unloading, opening or otherwise handling boxes, crates, containers, garbage cans, or recyclable containers, between the hours of 10:00 p.m. and 7:00 a.m. daily when such operations are conducted on a property located within two hundred fifty (250) feet of a residential use.

4. *Construction:*

- a. No person shall operate or cause to be operated any equipment used in construction, repair, alteration or demolition work on buildings, structures, streets, alleys, or appurtenances thereto with sound-control devices less effective than those provided on the original equipment.
- b. It shall be unlawful for any person to operate or cause to be operated equipment for the aforementioned uses Monday through Saturday before 8:00 a.m. or after 7:00 p.m. and Sunday before 10:00 a.m. or after 7:00 p.m., except for public works transportation projects that are approved pursuant to section 17-9.

5. *Emergency generators:*

- a. Testing of generators shall be conducted for the minimum duration and at the minimum frequency recommended by the manufacturer, but in no case shall said testing exceed one (1) hour in any one (1) day.
- b. Testing shall only be conducted between the hours of 10:00 a.m. and 7:00 p.m. daily.
- c. The sound emissions from generators shall not exceed sixty-eight (68) dBA when measured at a distance of twenty-three (23) feet from the generator.
- d. When the generator is located on the same parcel as the complainant, the indoor sound level limits in Table 1 shall apply.

6. *Heating, ventilation, and air conditioning (HVAC) equipment on residential property.* No person shall operate or cause to be operated any HVAC equipment on residential property which exceeds forty (40) dBA between the hours of 10:00 p.m. and 7:00 a.m. daily when measured within the premises of a complainant.

7. *Landscaping and yard maintenance power tools or motorized equipment.* No person shall operate or cause to be operated any landscaping or yard maintenance power tools or motorized equipment Monday through Friday before 7:00 a.m. or after 7:00 p.m. and Saturday and Sunday before 8:00 a.m. or after 6:00 p.m. No person shall operate or cause to be operated any landscaping or yard maintenance power tools or motorized equipment or appurtenances thereto with sound-control devices less effective than those provided on the original equipment.

8. *Motorboat.* No person shall operate or cause to be operated any motorboat in any lake, river, stream, or other waterway which is not muffled pursuant to F.S. § 327.65.

9. *Motor vehicles, motorcycles, mopeds and motorized scooters.* No person shall cause a rapid throttle advance (revving) of an internal combustion engine resulting in a noise disturbance.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-8. - Exemptions.

1. Construction operations between 8:00 a.m. and 7:00 p.m., Monday through Saturday and between 10:00 a.m. and 7:00 p.m. on Sunday for which building permits have been issued, or construction operations not requiring permits due to the scope of work or ownership of the project by an agency of government; providing all equipment is operated in accordance with its manufacturers' specifications, uses as standard equipment its manufacturers' mufflers and noise-reducing equipment, and is in proper operating condition.
2. Emergency energy release devices.
3. Facility-wide warning devices.
4. Back-up alarms so long as they are self-adjusting to ambient sound levels and meet the requirements of OSHA standards.
5. Noises arising from any authorized emergency vehicle when responding to an emergency call or acting in time of emergency.
6. Noise caused in the performance of emergency work, at the site of the emergency, for the immediate safety, health or welfare of the community or individuals of the community or to restore property to a safe condition.
7. All noises coming from the normal operations of an aircraft.

8. Motor vehicles, mopeds, or motorized scooters as defined herein and muffled in accordance with state law.
9. Vessels operated on the waterways within the city limits which are muffled pursuant to F.S. § 327.65, as may be amended from time to time.
10. Impulsive sound resulting from the controlled detonation of explosives at quarries and construction sites.
11. Sanitation operations which include the unloading, emptying or collection of any waste or recyclable container between the hours of 7:00 a.m. and 10:00 p.m. daily.
12. The sound emissions of emergency generators shall be exempt when there is loss of power for any cause other than non-payment of utility services. The testing of emergency generators shall be conducted pursuant to section 17-7(e).
13. Landscaping and yard maintenance power tools or motorized equipment between 7:00 a.m. and 7:00 p.m. Monday through Friday and between 8:00 a.m. and 6:00 p.m. Saturday and Sunday. No person shall operate or cause to be operated any landscaping or yard maintenance power tools or motorized equipment or appurtenances thereto with sound-control devices less effective than those provided on the original equipment.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-9. - Construction of large public works transportation projects.

- (a) When a public transportation project that cannot reasonably be constructed within the noise limitations set forth in Chapter 17, is to be constructed and the project is one that substantially impacts vehicular or vessel traffic for a period of time that exceeds one hundred eighty (180) days, the city commission may determine that special circumstances exist and approve a noise management plan that establishes project-specific noise regulations, which will apply instead of the other regulations contained herein.
- (b) Consideration of an application for relief from the requirements of Chapter 17 of the Code of Ordinances of the City of Fort Lauderdale shall be initiated by filing an application for approval by the public entity wishing to construct the transportation improvement, with the city engineering division. An application shall include a noise management plan that shall include the following elements:
 - (1) A conceptual site plan showing the size and location of all structures and infrastructure improvements to be constructed under the proposed project;
 - (2) A legal description of the property where the project is occurring;
 - (3) A description of the need for the public improvement;
 - (4) A description of the economic and environmental impact on the area as a result of improvement;
 - (5) A description of the noise regulation(s) from which relief is necessary in order to construct the improvement and a description of the proposed regulations that the project shall meet during construction;
 - (6) A description of the anticipated noise impact of the construction on adjacent properties;
 - (7) A description of how the noise management plan mitigates negative impacts that might occur;
 - (8) A description of the continuous noise-monitoring program proposed for the construction period, which measure noise levels as well as makes an audio recording of the noise;
 - (9) The results of a baseline ambient, A-weighted sound levels noise study, in the project area of continuous duration, at monitoring sites, said study to be previously approved by the city engineer;
 - (10) A description outlining the resources of the applicant to monitor noise and implement the noise management plan, which shall include the identification of noise control officers; and
 - (11) An estimate of the cost and time savings that will result from the adoption of the noise management plan.
- (c)

The application shall be reviewed by the city department responsible for review of development permits for a determination that the application is complete and then forwarded when complete to the development review committee (DRC). After review and comments by the DRC, the application shall be forwarded to the city commission.

- (d) The city commission shall hold one (1) public hearing to consider a resolution approving the noise management plan and shall provide notice of hearing to owners of property within three hundred (300) feet of the boundaries of the public works transportation project. For purposes of notification, the owners shall be considered to be the names shown on the property appraiser's tax rolls as such are known by the city. Except as otherwise required by law, condominium, cooperative and time-share associations shall be notified as one entity and that entity shall be responsible for notifying individual owners or members of their association. The notice shall be mailed to the address shown at least ten (10) days before the date of the hearing.
- (e) The city commission may approve, or approve with conditions, the noise management plan based on the following findings:
 - (1) There is a need for the public works transportation project and the project is of such large size and that its duration is for more than one hundred eighty (180) days such that special circumstances exist.
 - (2) On-site improvements have been incorporated into the noise management plan that minimize the impact of construction noise.
 - (3) The noise management plan represents a viable and cost-effective plan that balances the need for the public improvement to be constructed in a reasonable period of time versus the noise to be produced and hours of construction, which impact adjacent properties.
 - (4) Off-site or on-site conditions exist that reduce the noise impact if any, and to the extent possible, the noise management plan utilizes those conditions.
 - (5) That the noise management plan provides for the continuous monitoring of noise during the project construction period, the data from which shall be provided to the city by a direct, real-time, hook-up between city and applicant's computer system in a computer readable format, compatible with the city's noise monitoring system.
- (f) Any person involved with a public entity transportation construction project who has been convicted of violating any of the terms or conditions of an approved noise management plan, by a court of competent jurisdiction, may be cause for the city commission to revoke such public entity's noise management plan. Upon such a conviction, the city manager may place on the city commission agenda the matter of revoking the plan. After consideration of the matter and allowing representatives of the public entity to be heard, the city commission by resolution may revoke or place conditions upon the noise management plan. The factors to be considered by the city manager and the city commission shall include the number and seriousness of the specific noise management plan violations of which a person involved with the public entity's project has been convicted of violating, whether the penalty imposed pursuant to the conviction has been satisfied, whether the public entity has made modification to its operations to conform to the requirements of the noise management plan and based on the foregoing criteria, the danger to the health, safety, and welfare of the public due to continued operation by the public entity pursuant to its noise management plan.

(Ord. No. C-08-37, § 2, 7-15-08)

Sec. 17-10. - Construction of large projects; noise management plan; exemption for time to comply.

Upon good cause shown by the owner of any noise source when a noise management plan has been approved by the city commission, the city manager shall have the power to grant a special permit, which provides an exemption from the provisions of an approved noise management plan in order to allow sufficient time for the installation of necessary equipment, facilities, or modifications to achieve compliance. Provided however, the aforementioned special permit shall not be granted for a period of time to exceed fifteen (15) days from the date said exemption is granted, but such exemption may be renewed for an additional fifteen-day period of time if satisfactory progress towards compliance is shown. Approval of special permit shall be based upon cases of

necessity or in the interest of public health, safety and convenience. In the issuance of such permit(s), the city manager shall weigh all facts and circumstances and shall determine whether the reasons given for the necessity are valid and reasonable, whether the public health, safety and convenience will be protected or better served by granting the permit requested, and whether the manner and amount of loss or inconvenience to the party in interest imposes a significant hardship upon such party.

(Ord. No. C-08-37, § 2, 7-15-08)

EXHIBIT J

CITY OF FORT LAUDERDALE

STANDARD DETAILS

PUMP STATION B-4 REDUNDANT FORCE MAIN
CITY PROJECT NO. 12567

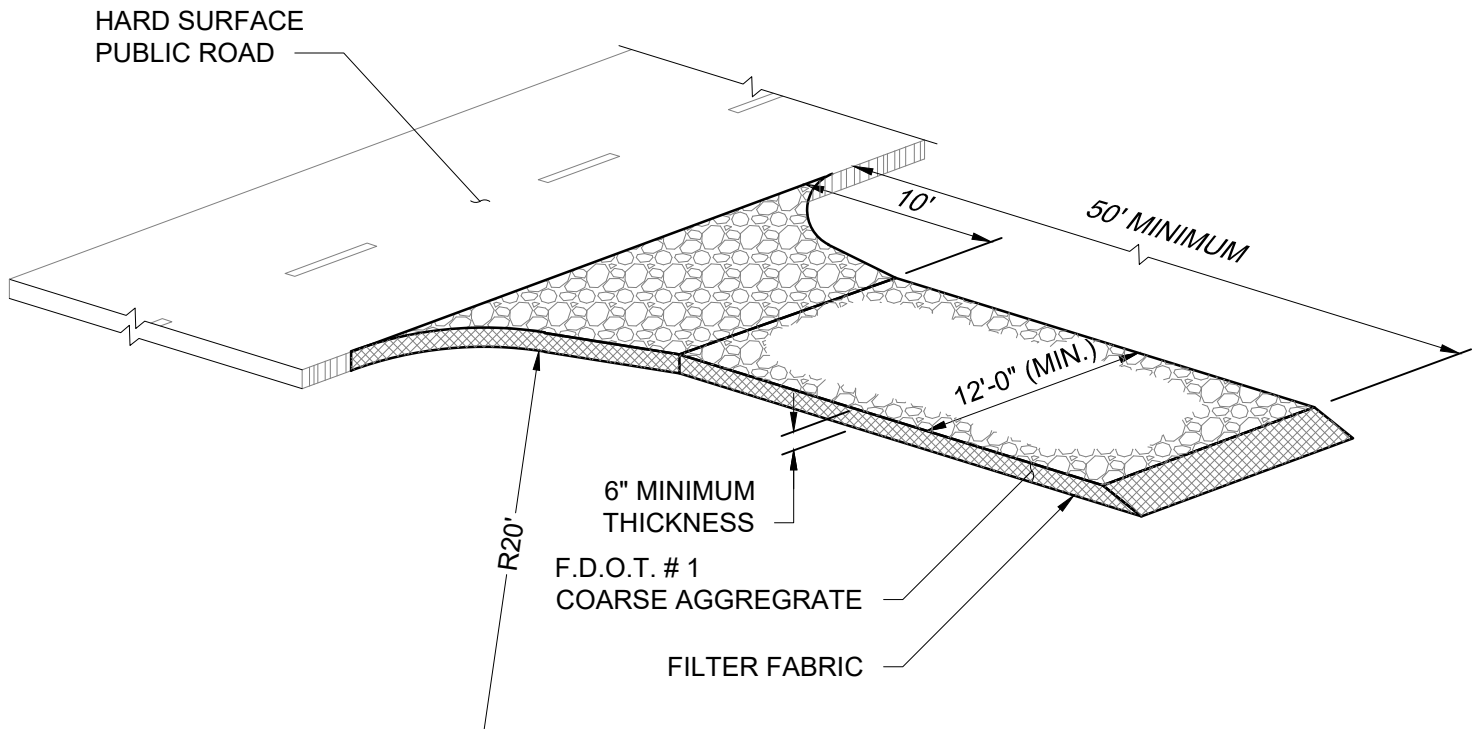
EROSION AND SEDIMENT CONTROL:

1. CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION IN ORDER TO ENSURE POLLUTION PREVENTION. CONTRACTOR TO COMPLY WITH ALL LOCAL STATE AND OTHER GOVERNMENTAL ENVIRONMENTAL REGULATIONS THROUGHOUT CONSTRUCTION.
2. DURING CONSTRUCTION ALL CATCH BASIN INLETS SHALL BE PROTECTED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CATCH BASIN.
3. SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT DISCHARGE OF SEDIMENT ONTO ADJACENT UNDISTURBED AREAS, OR OFF-SITE AREAS.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
5. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
6. ALL EXPOSED AREAS SHALL BE SODDED AS SPECIFIED WITHIN 30 DAYS OF FINAL GRADING.
7. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
9. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
10. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY CITY, COUNTY, AND STATE OF FLORIDA ON SITE INSPECTION, AT NO ADDITIONAL COST TO THE OWNER.
11. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
12. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
13. BURNING OF DEBRIS WILL NOT BE ALLOWED.
14. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
15. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE IF IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES IF EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC. THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. EROSION CONTROL BARRIER SHALL BE ESTABLISHED AS THE FIRST ITEM OF WORK.



16. THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM APPLIES TO ALL CONSTRUCTION ACTIVITY THAT: 1) CONTRIBUTE STORMWATER DISCHARGES TO SURFACE WATER OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); 2) DISTURBS ONE OR MORE ACRES OF LAND; OR 3) LESS THAN ONE ACRE IS INCLUDED IF THE ACTIVITY IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT THAT WILL MEET OR EXCEED THE ONCE ACRE THRESHOLD. DISTURB INCLUDES CLEARING, GRADING AND EXCAVATING.
17. FOR CONSTRUCTION ACTIVITY THAT IS SUBJECT TO THE NPDES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S STORMWATER PERMITTING PROGRAM, THE CONTRACTOR SHALL:
 - 17.1. OBTAIN A GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOCUMENT 62-621.300(4)(A).
 - 17.2. COMPLY WITH ALL REQUIREMENTS OF THE GENERIC PERMIT.
 - 17.3. DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
 - 17.4. COMPLETE A NOTICE OF INTENT (NOI) FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FORM 62-621.300(4)(B) IN ITS ENTIRETY USING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S WEBSITE.
18. SUBMIT COPIES OF THE SWPPP AND THE NOI TO THE ENGINEER AS INFORMATIONAL RECORDS. THESE SUBMITTALS WILL NOT BE REVIEWED BY THE ENGINEER.
19. CONTRACTOR TO CLEAN AND REPAIR ALL EXISTING STORMWATER INFRASTRUCTURE THAT IS IMPACTED BY CONSTRUCTION ACTIVITIES, BEFORE LEAVING THE JOBSITE.
20. CONTRACTOR TO REMOVE ALL FILTER FABRIC AND POLLUTION PREVENTION ITEMS BEFORE THE FINAL WALK-THROUGH.





NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

GRAVEL CONSTRUCTION ENTRANCE

CAM 21-0345

Exhibit 3

DETAIL NO.
**ESC
002**

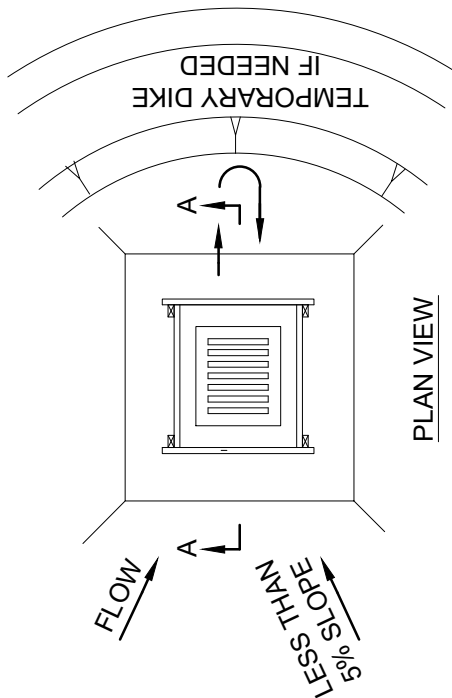
REVISION:
2017/07/06 255

CONTRACTOR'S RESPONSIBILITY

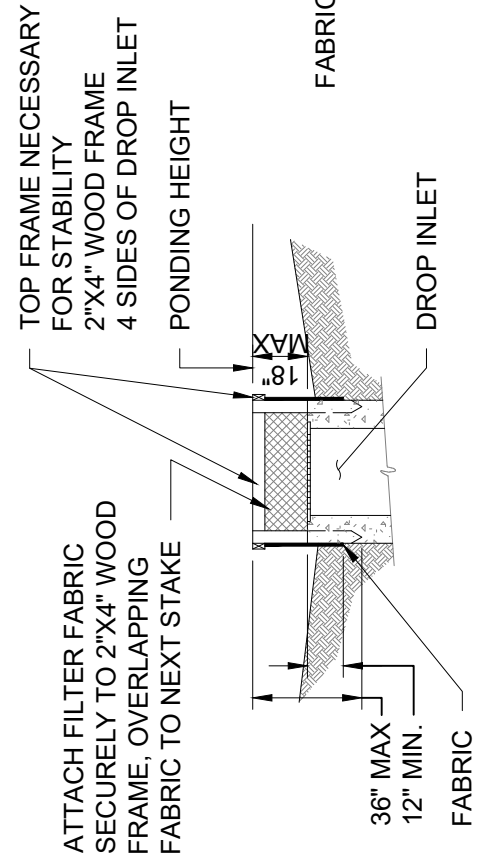
EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED CRITERIA. IF THE BMPs PROVIDED DO NOT PREVENT SOILS FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM A SITE.

NOTES:

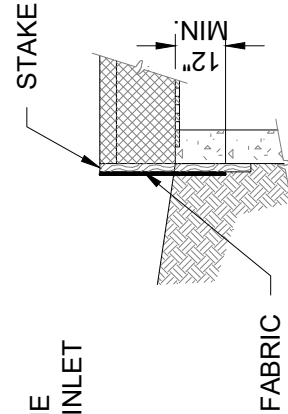
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. USE 2"x4" WOOD OR EQUIVALENT METAL STAKES. (3' MIN. LENGTH).
3. INSTALL 2"x4" WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET.
5. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
6. MIRAFI OR APPROVED EROSION CONTROL FABRIC SHALL BE WRAPPED AROUND GRADE.
7. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



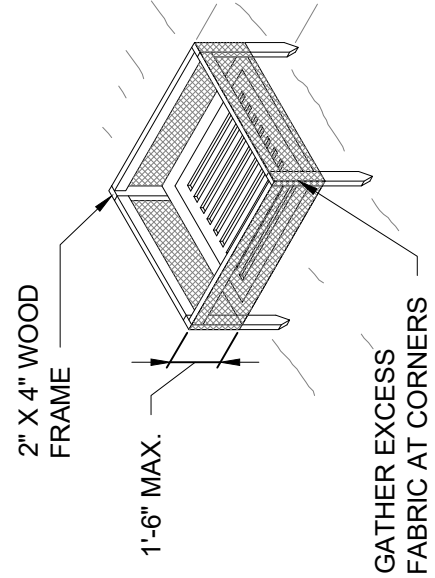
PLAN VIEW



SECTION A-A



DETAIL OF STAKE & FABRIC ORIENTATION



ISOMETRIC VIEW



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

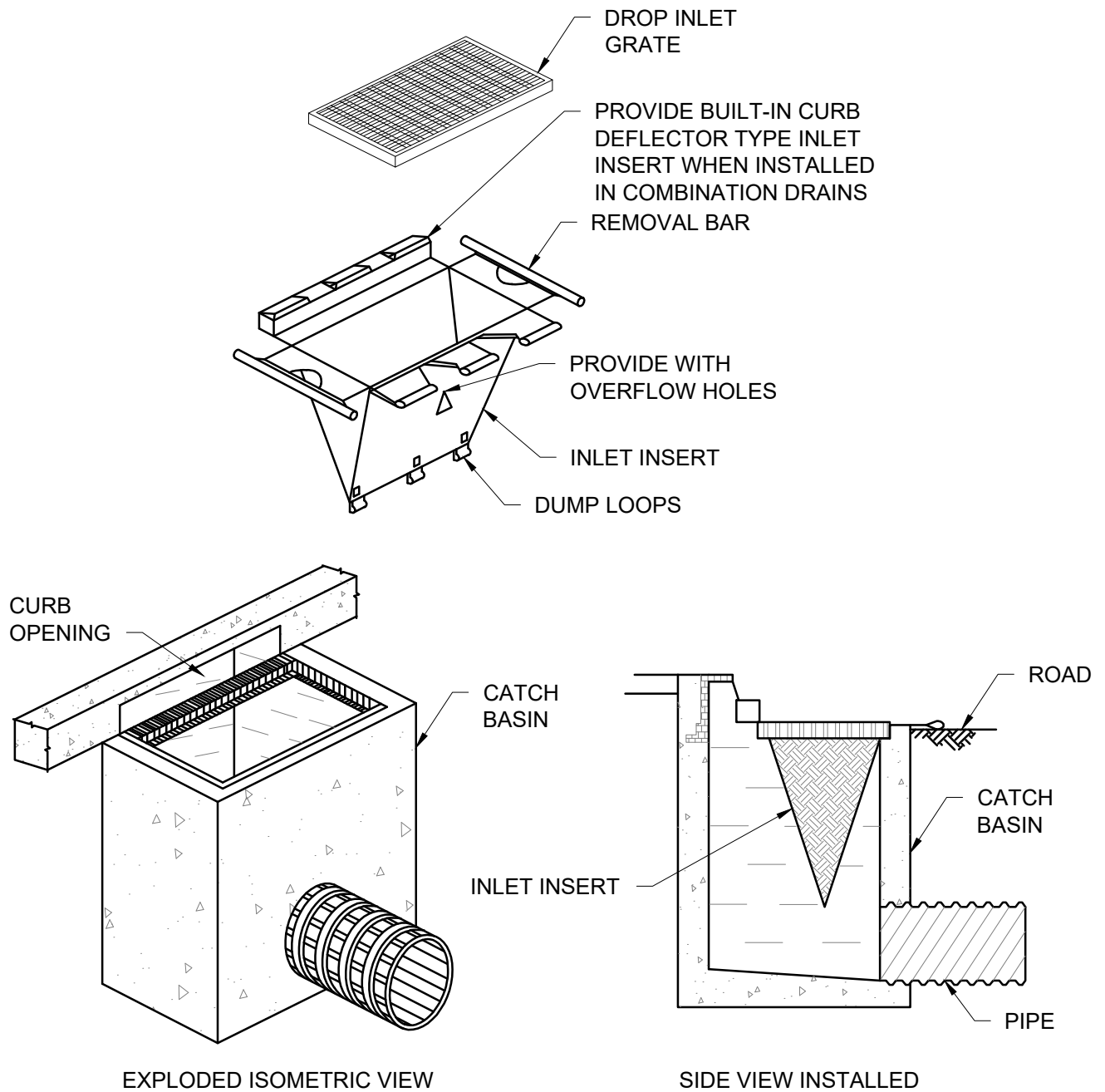
DROP INLET PROTECTION - SEDIMENT BARRIER

DETAIL NO.
ESC
004

CAM 21-0345

Exhibit 3

REVISION: 2016/09/24 256



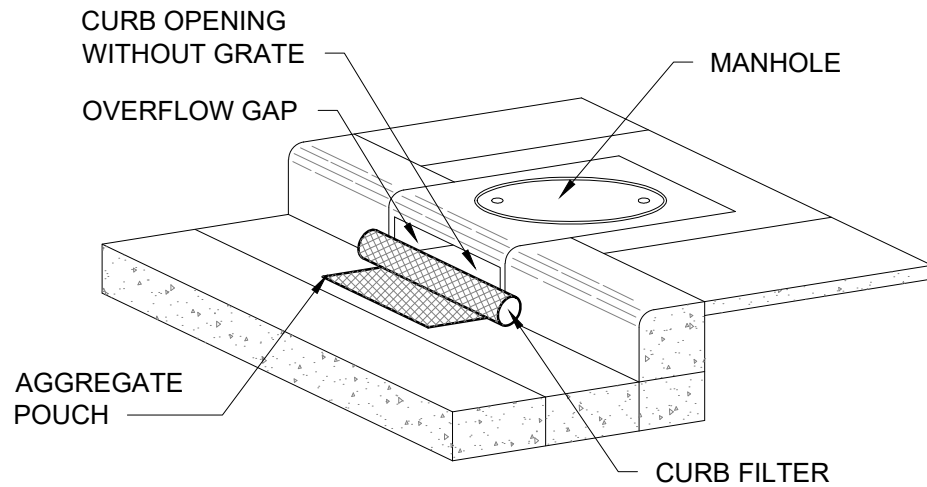
EXPLODED ISOMETRIC VIEW

SIDE VIEW INSTALLED

NOTES:

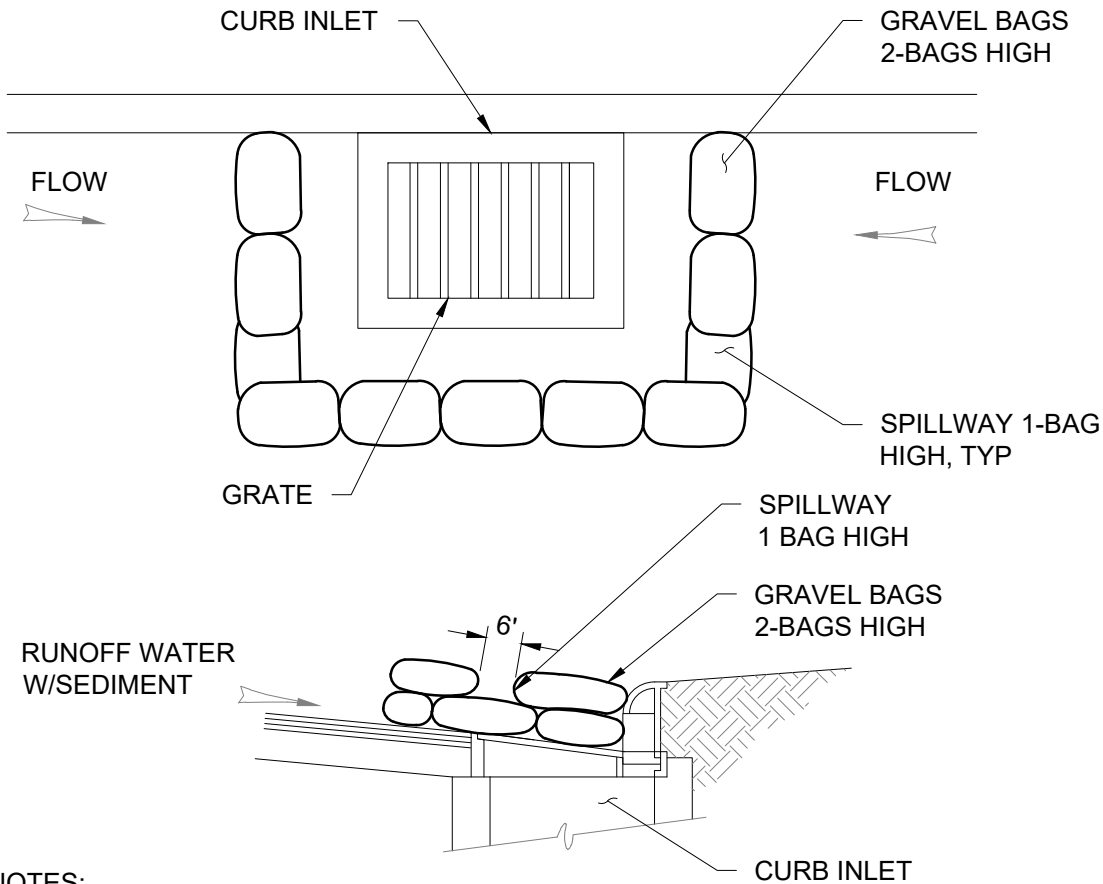
1. THE INLET INSERT SHALL BE A SEDIMENT CONTROL DEVICE DESIGNED FOR DROP INLETS OR COMBINATION DRAINS WHERE A DROP INLET IS COUPLED WITH A CURB INLET.
2. THE INLET INSERT SHALL BE MADE OF A PERMEABLE GEOTEXTILE THAT ALLOWS WATER TO PASS BUT PREVENTS SILT AND SEDIMENT FROM CLOGGING THE DRAIN SYSTEM.
3. THE CONTRACTOR SHALL CLEAN AND INSPECT REGULARLY AND AFTER EVERY MAJOR RAIN EVENT.
4. INLET INSERTS SHALL BE "SILTSACK" BY ACF ENVIRONMENTAL, OR EQUAL. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS.



NOTES:

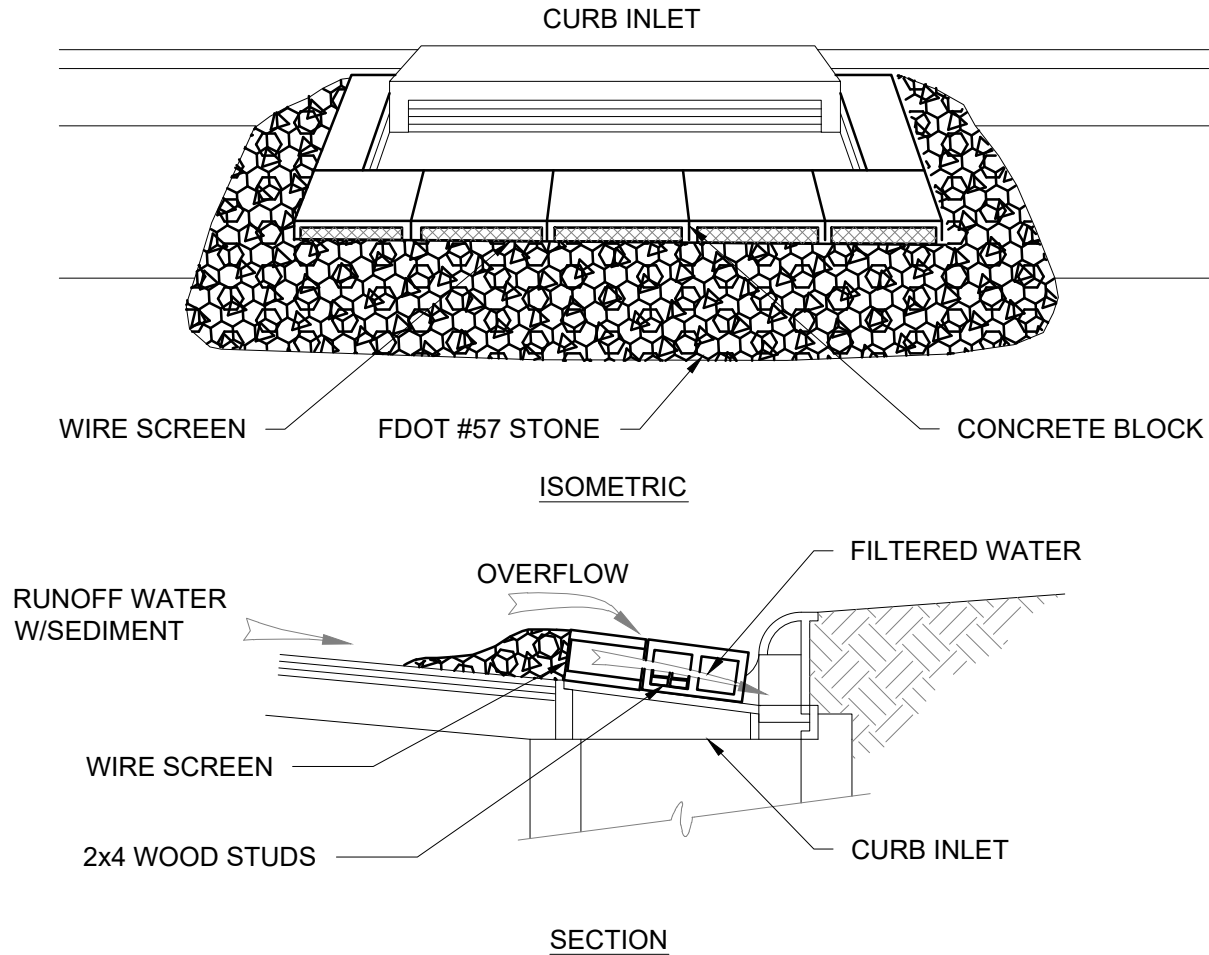
1. INSTALL CURB FILTERS AT ALL INLETS WITHOUT GRATES TO KEEP SILT, SEDIMENT AND CONSTRUCTION DEBRIS OUT OF THE STORM SYSTEM
2. THE CURB FILTER SHALL BE DANDY CURB AS MANUFACTURED BY DANDY PRODUCTS INC., OR EQUAL. SUBMIT SHOP A SHOP DRAWING FOR THE CURB FILTERS.
3. THE CURB FILTER SHALL FORM OF A CYLINDRICAL TUBE PLACED IN FRONT OF AND EXTENDING BEYOND THE INLET OPENING ON BOTH SIDES.
4. THE CURB FILTER SHALL HAVE A POUCH ON THE STREET SIDE OF THE UNIT FOR STONE AGGREGATE TO HOLD THE FILTER IN PLACE.
5. THE CURB FILTER SHALL BE CONSTRUCTED OF A HIGH VISIBILITY ORANGE MONOFILAMENT FABRIC.
6. FILL POUCH WITH FDOT #57 STONE AGGREGATE TO A LEVEL (AT LEAST HALF-FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE CURB FILTER AND THE SURFACE OF THE STREET.
7. CENTER THE UNIT AGAINST CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE. THERE WILL BE APPROXIMATELY TWELVE (12) INCHES OF THE INLET PROTECTION UNIT OVERHANGING ON EACH SIDE OF THE OPENING.
8. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT.



**NOTES:**

1. A SPILLWAY SHALL BE DESIGNATED FOR EACH DIRECTION OF APPROACHING FLOW AS SHOWN. THE SPILLWAY SHALL BE LOCATED TO ALLOW THE MAXIMUM AMOUNT OF STORMWATER TO POOL WITHOUT FLOODING AREAS UP GRADE OF THE INLET.
2. FOR INLETS THAT ARE NOT ADJACENT TO CURBS, PLACE GRAVEL BAGS ONE BAG HIGH AROUND THE ENTIRETY OF THE INLET TO ACCOMMODATE FLOW FROM ALL DIRECTIONS.
3. BAG MATERIAL: BAGS SHALL BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT FOUR OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM D4355.
4. BAG SIZE: EACH GRAVEL-FILLED BAG SHALL BE 18-INCHES X 12-INCHES X 3-INCHES AND HAVE A MASS OF APPROXIMATELY 33 LBS. ALTERNATIVE BAG SIZES SHALL BE CONSIDERED BASED ON LOCALLY AVAILABLE MATERIALS.
5. FILL MATERIAL: GRAVEL SHALL BE PEA GRAVEL 3/8 INCHES IN DIAMETER AND SHALL BE CLEAN AND FREE OF CLAY BALLS, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS.



**NOTES:**

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2 - 3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR INLETS IN ROADWAYS WITH HEAVY TRAFFIC CONDITIONS PREFABRICATED FILTER INSERTS MAY BE USED.



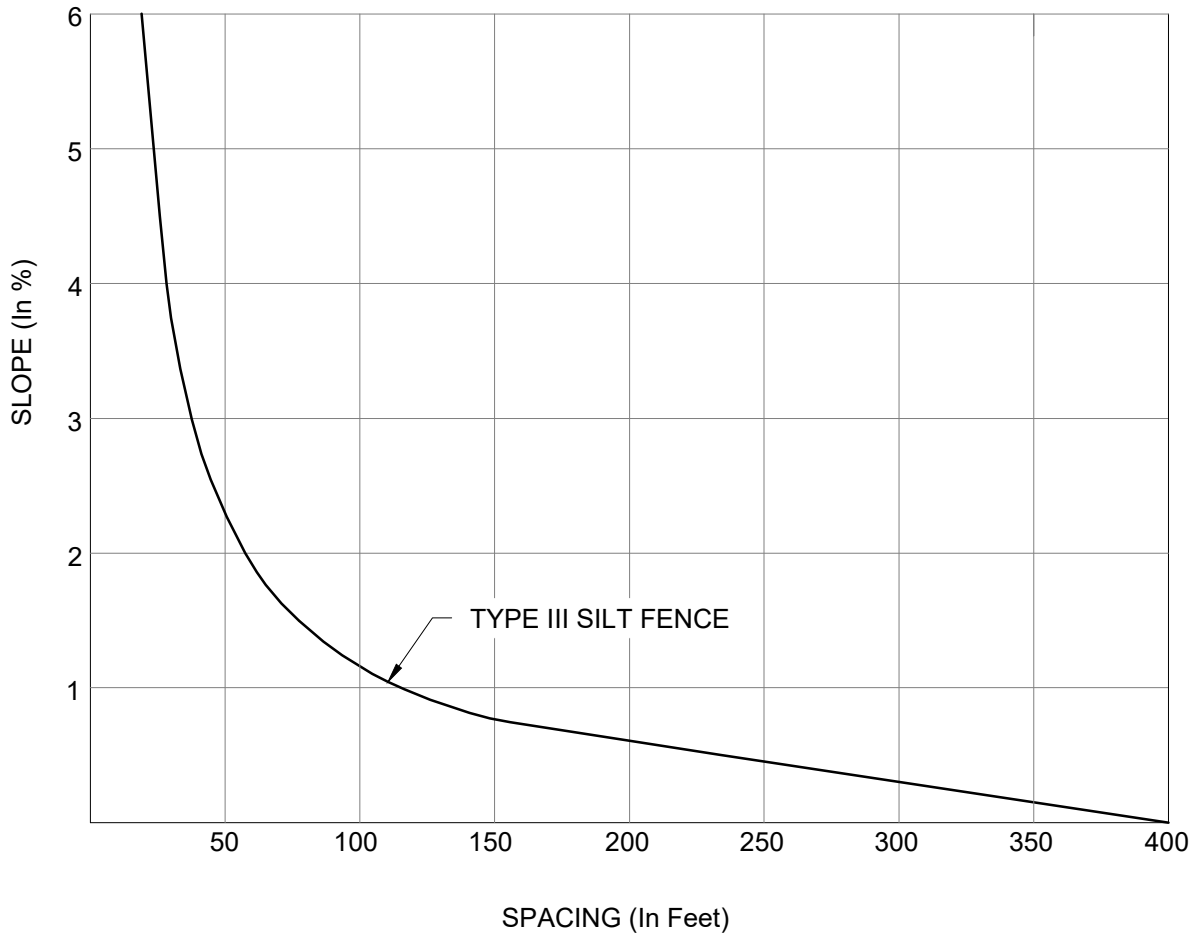
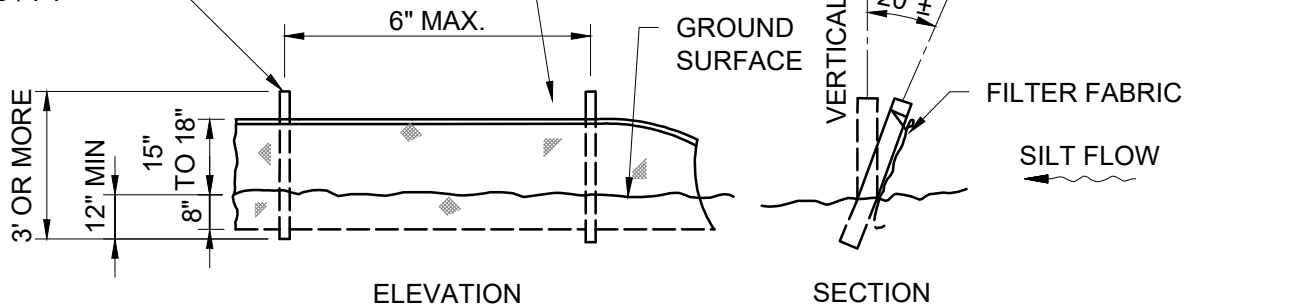


CHART 1: SILT FENCE SPACING

POST OPTIONS:
 SOFTWOOD 2 1/2" DIA.
 SOFTWOOD 2" x 4"
 HARDWOOD 1 1/2" x 1 1/2"
 STEEL 1.33 LBS / FT

FILTER FABRIC
 (IN CONFORMANCE WITH
 SEC. 985 FDOT SPEC.)



TYPE III SILT FENCE



CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DETAILS

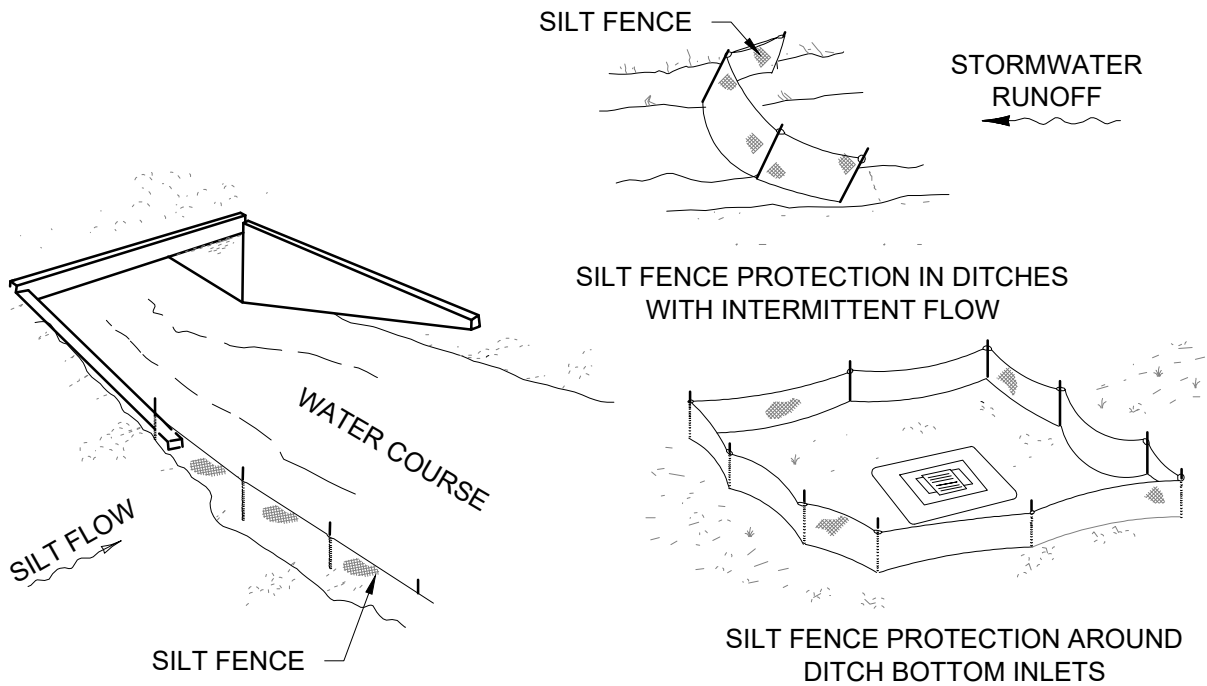
SILT FENCE - SHEET 1

CAM 21-0845

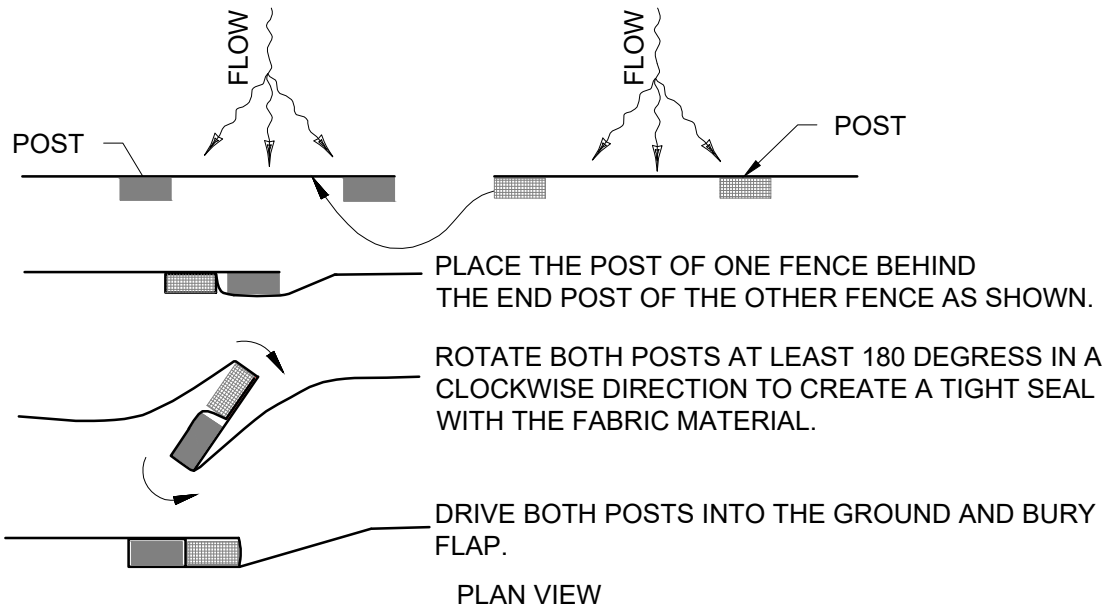
Exhibit 3

DETAIL NO.
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REVISION:
 2017/07/12



SILT FENCE APPLICATIONS



JOINING TWO SILT FENCES

NOTES:

1. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1.
2. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
3. WHERE USED AS SLOPE PROTECTION . SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

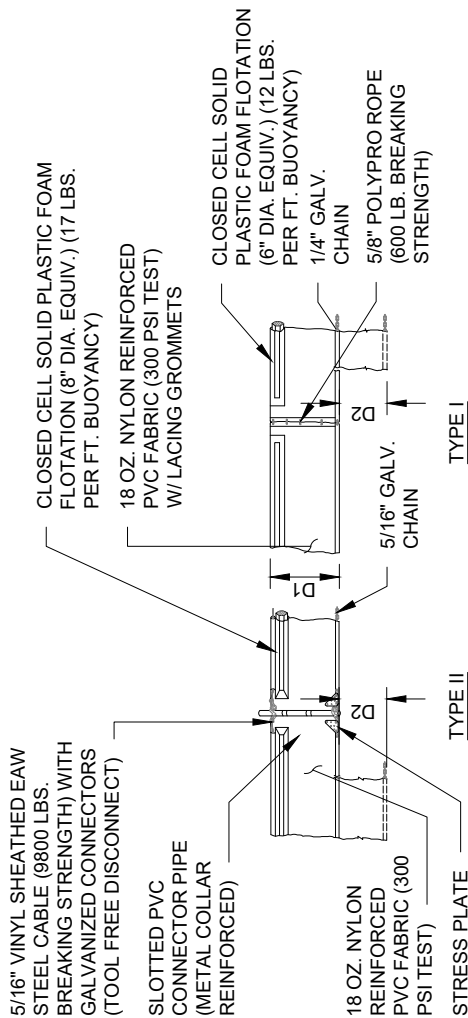
SILT FENCE - SHEET 2

CAM 21-0345

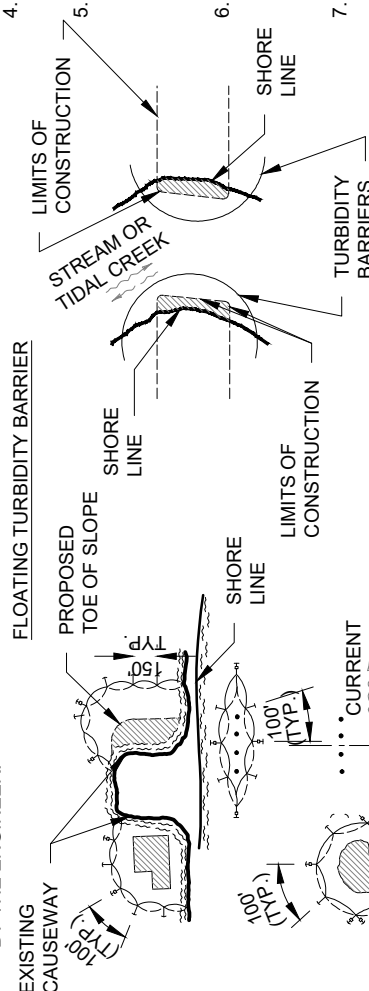
Exhibit 3

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2017/07/14 262



NOTE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TURBIDITY APPLICATIONS

NOTES:

1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.

TYPE I TURBIDITY BARRIERS SHALL BE DESIGNED BY THE MANUFACTURER FOR USE IN CALM WATER AREAS SUCH AS SWALES, DITCHES, CANALS, SMALL PONDS, LAKES AND HARBORS. TYPE I TURBIDITY BARRIERS SHALL BE USED IN AREAS WHERE THERE IS NO CURRENT AND THE AREA IS SHELTERED FROM WIND AND WAVES.

TYPE II TURBIDITY BARRIERS ARE DESIGNED BY THE MANUFACTURER FOR AREAS WITH MOVING WATER, CURRENTS, WAVES OR TIDE. TYPE II TURBIDITY BARRIERS SHALL BE USED IN WATER LOCATIONS WITH WAVES UP TO TWO FEET (2'), MODERATE WIND, AND CURRENTS UP TO 2 KNOTS OR 3.5 FEET PER SECOND.

STAKED BARRIERS ARE CONTINUOUS PANELS OF PVC FABRIC THAT CONTAIN STORMWATER RUNOFF OR RE-DIRECT IT TO CHANNELS OR RETENTION AREAS.

CONSTRUCTION SPECIFICATIONS: THE AREA OF INSTALLATION FOR THE PROPOSED TURBIDITY BARRIER SHALL BE INSPECTED FOR OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE THE BARRIER OR IMPAIR ITS EFFECTIVENESS TO RETAIN SEDIMENTS. REMOVE MATERIALS, OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE OR IMPAIR THE EFFECTIVENESS OF THE TURBIDITY BARRIER.

MAINTENANCE: THE TURBIDITY BARRIER SHALL BE INSPECTED DAILY AND REPAIRED OR REPLACED IMMEDIATELY IF DAMAGED. IT IS NOT NORMALLY NECESSARY TO REMOVE SEDIMENT DEPOSITED BEHIND THE CURTAIN. HOWEVER, WHEN NECESSARY, REMOVAL SHALL BE DONE BY HAND PRIOR TO REMOVAL OF THE BARRIER. ALL REMOVED SILT SHALL BE STABILIZED AWAY FROM THE WATERBODY. THE BARRIER SHALL BE REMOVED SLOWLY AND BY CAREFULLY PULLING IT TOWARD THE CONSTRUCTION SITE TO MINIMIZE THE RELEASE OF SEDIMENTS.

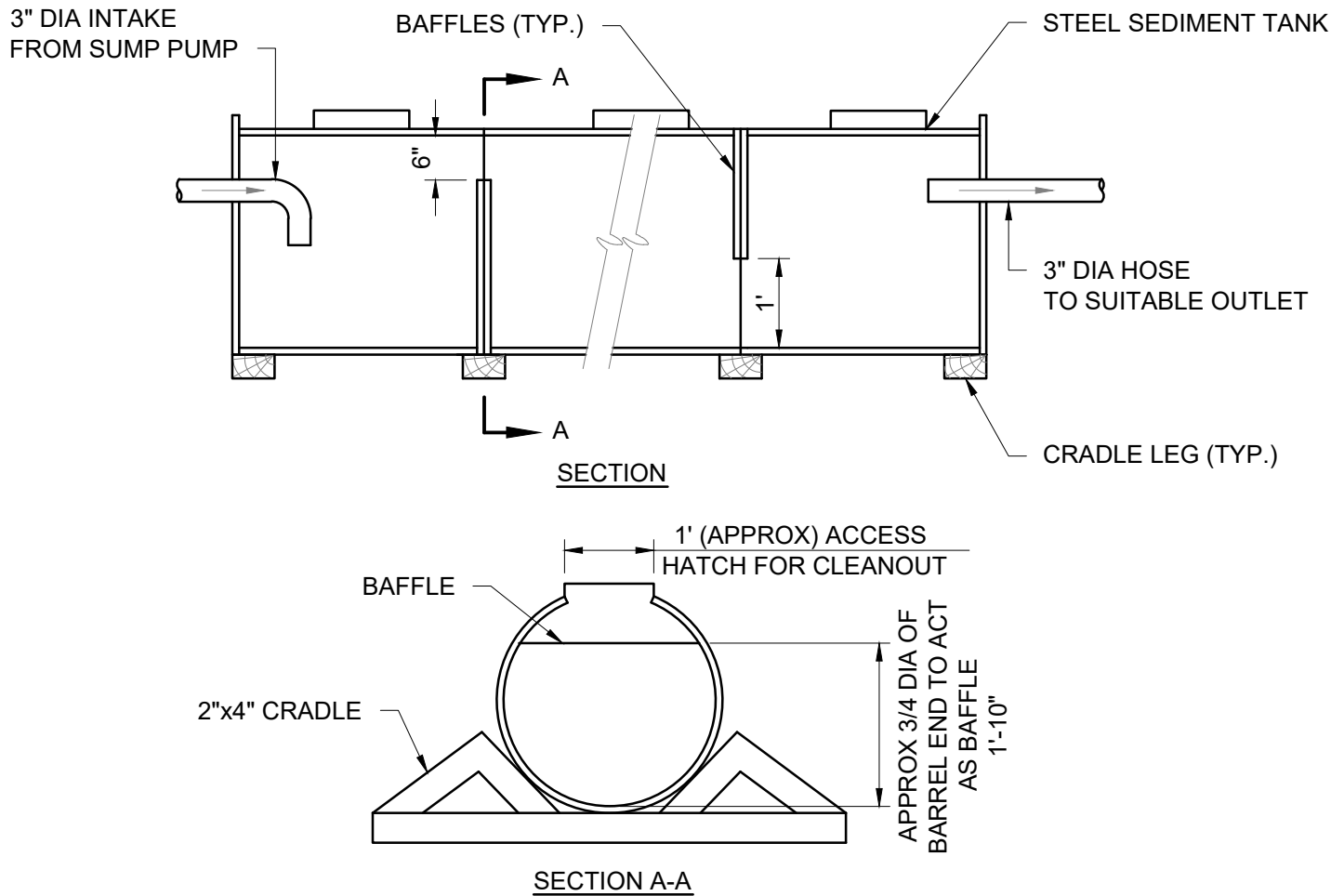
TURBIDITY BARRIER - FLOATING

DETAIL NO.
ESC 011

CAM 21-0345

Exhibit 3

REVISION: 2017/07/08 263

**NOTES:**

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE, AN APPROVED LOCATION IN WHICH FURTHER SEDIMENT TRANSPORT WILL NOT OCCUR OR AS APPROVED BY THE INSPECTOR.
3. PORTABLE SEDIMENT TANK SHALL BE AN ABOVE GROUND HORIZONTAL SINGLE-WALL UL-142 MANUFACTURED BY HIGHLAND TANK OR WEIR BOX MANUFACTURED BY RAIN FOR RENT OR EQUIVALENT.



GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
2. REFER TO SPECIFICATION SECTION 01001 AND 01520 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
3. SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED BY XXXX. SURVEYING, LLC DATED FEBRUARY 2013.
4. HORIZONTAL CONTROL IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
5. RECORD DRAWINGS USED FOR EXISTING FEATURES: XXXXX. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
7. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
8. ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
9. THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
10. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
11. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN OR AROUND EXISTING CITY-OWNED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION WITHIN TEN FEET OF A CITY-OWNED UTILITY SO THAT A CITY REPRESENTATIVE MAY BE PRESENT.
12. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.



14. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
15. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
17. FOR REFERENCE MONUMENTS, SEE DRAWING (EX. CONDITIONS DWG # THAT SHOWS MONUMENTS).
18. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
19. THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
20. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
21. ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.
22. PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WHERE SHOWN ON THE PLANS.
23. RESILIENT SEATED GATE VALVES WITH BEVEL TYPE GEAR SHALL BE INSTALLED IN HORIZONTAL ORIENTATION WHEN LESS THAN 7-FEET OF COVER FROM TOP OF PIPE IS PRESENT.
24. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
26. THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48-HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION BY THE CITY.
27. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
28. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.



29. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
30. ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
31. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
32. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
33. CONTRACTOR SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
34. STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
35. THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
36. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
37. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
38. CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
39. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
40. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
41. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
42. CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAPPED WITH ASPHALT.
43. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.



44. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
45. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W's WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
46. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR CITY APPROVAL PRIOR TO ORDERING MATERIALS AND INSTALLATION.
47. EXISTING GAS MAINS SHALL BE IDENTIFIED BY THE APPROPRIATE UTILITY, PRIOR TO START OF CONSTRUCTION.



TRAFFIC CONTROL PLAN NOTES:

1. THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600-660. MUTCD AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR'S RESPONSE TIME TO ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS SHALL BE NO MORE THAN TWO (2) HOURS AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT TO ITS LEVEL OF OPERATION PRIOR TO THE MALFUNCTIONING WITHIN TWENTY-FOUR (24) HOURS. DURING THIS TIME THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGLER PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED WORK ZONE. THE ENGINEER OR THE CITY OF FORT LAUDERDALE SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR IMPLEMENTATION.
2. THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES AND LOOP DETECTORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS BY THE ENGINEER.
3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
4. A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE.
5. EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION. REMOVE AND REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.
6. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF FORT LAUDERDALE FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT. NO LANE CLOSURE SHALL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THROUGH FRIDAY UNLESS APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS FOR LIST OF UTILITY COMPANIES.
9. TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS OF THE BROWARD COUNTY ENGINEERING DEPARTMENT.
10. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO BE ATS CERTIFIED.
11. THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD COUNTY AND THE CITY OF FORT LAUDERDALE TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY AFFECT TRAFFIC DURING RUSH HOUR.



FDOT GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (2010 EDITION). STANDARD SPECIFICATIONS (2010 EDITION) AND THE SUPPLEMENTS THERETO.
2. THE APPLICANT'S ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION SHALL INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBER (600 SERIES) AND THIS DOCUMENT: THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (D.S. DEPARTMENT OF TRANSPORTATION, FHWA).
3. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR'S EXPENSE.
4. IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE APPLICANT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
5. THE CONTRACTOR MUST CALL THE APPROPRIATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT AT LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FDOT RIGHT-OF-WAY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.
6. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
7. BEFORE PERMIT APPROVAL AND CONSTRUCTION OF THIS PROJECT, THE APPLICANT MUST CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE TO SCHEDULE A PRE-CONSTRUCTION MEETING. THE TELEPHONE NUMBER IS 954-776-4300 OR 1-800-300-8236. THE APPLICANT AT THE EARLIEST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT-OF-WAY USERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
8. ALL MOT LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED EXCEPT AT TIMES PRESCRIBED BY THE DEPARTMENT.
9. SODDING SHALL BE IN ACCORDANCE WITH SECTION 575.
10. ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
11. SPECIFY THE ALPHANUMERIC IDENTIFICATION FOR THE CURB CUT RAMPS PER STANDARD INDEX 304. A COPY OF THE APPROPRIATE DETAIL(S) MUST BE SHOWN ON THE PLANS.
12. FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY.



FDOT SCHOOL MAINTENANCE OF TRAFFIC NOTES:

1. THE FOLLOWING AREAS WITHIN THE PROJECT LIMITS ARE DESIGNATED AS SAFE ROUTES TO SCHOOL BY THE BROWARD COUNTY SCHOOL BOARD (AREAS TO BE PROVIDED BY BCTED):
 - A. DATA TO BE SUPPLIED BY BCTED
 - B. DATA TO BE SUPPLIED BY BCTED
2. WITHIN THESE AREAS THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING REQUIREMENTS:
3. PROVIDE AT LEAST ONE SAFE, WALKABLE PATH THROUGHOUT THE CONSTRUCTION ZONE. IF THE EXISTING WALKING SURFACES CANNOT BE MAINTAINED, THEN A TEMPORARY PATH, A MINIMUM OF 4 FOOT WIDE, SHALL BE PROVIDED. THE SAFE WALK ROUTE SHALL ALSO BE SEPARATED FROM THE CONSTRUCTION ACTIVITY DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FDOT DESIGN STANDARDS INDEX NO. 600 AS WELL AS MEETING ALL ADA REQUIREMENTS. THE CONTRACTOR SHALL ALSO INSTALL OR MODIFY ANY ADDITIONAL PAVEMENT MARKINGS, SIGNAGE OR PEDESTRIAN SIGNALS AS NEEDED IN CONJUNCTION WITH THE TEMPORARY PATH.
4. ON DAYS THAT SCHOOL IS IN SESSION, THE CONTRACTOR'S WORK SCHEDULE WITHIN THE SCHOOL ZONE MAY BE REDUCED BASED ON ACTUAL WORK ACTIVITIES IN THE SCHOOL ZONE. SEE MAINTENANCE OF TRAFFIC PLANS FOR DETAILS ON THE WORK ZONE RESTRICTIONS, IF WARRANTED. ANY CHANGES IN THE MAINTENANCE OF TRAFFIC WORK SCHEDULES WITHIN SCHOOL ZONES SHOULD BE DISCUSSED WITH THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING, (954) 847-2600.
5. ALL WORK REQUIRED AT DESIGNATED SCHOOL CROSSINGS AND PEDESTRIAN CROSSINGS SHALL BE RESTORED TO A SAFE WALKABLE PATH DURING ARRIVAL AND DISMISSAL TIMES.
6. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-600, TO DISCUSS ALL NECESSARY SAFETY MEASURES.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT PERSONNEL IF CONSTRUCTION WILL IMPACT ANY BUS ROUTES.

| NAME | SECTION | PHONE | EMAIL |
|------------------|--|-------------------------------|-------------------------------------|
| RUTH MASTERS | ROUTING | (754) 321-4400 EXT. # 2309 | RUTH.MASTERS@BROWARDSCHOOLS.COM |
| VINCENT HARRELL | STUDENT TRANSPORTATION & FLEET SERVICE | (754) 321-4472 | VINCENT.HARRELL@BROWARDSCHOOLS.COM |
| MARY TOCHTERMANN | STUDENT TRANSPORTATION & FLEET SERVICE | (754) 321-4400 EXT. # 2006 | MARY.TOCHTERMANN@BROWARDSCHOOLS.COM |

8. UPON COORDINATION WITH THE AFOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRECONSTRUCTION MEETING WILL BE HELD TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THE SPECIAL PROJECTS COORDINATOR FROM THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, WILL BE NOTIFIED AND MAY ATTEND THE PRE-CONSTRUCTION MEETING.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

FDOT SCHOOL MOT NOTES

CAM 21-0345

Exhibit 3

DETAIL NO.
GNRL
004

REVISION:
2016/09/27

BROWARD COUNTY SCHOOL MAINTENANCE OF TRAFFIC NOTES:

1. THE MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS:
2. THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING STUDENT ARRIVAL AND DISMISSAL TIMES. IF THE CURRENT WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY WALKABLE SURFACE SHALL BE CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FDOT DESIGN STANDARDS INDEX NO. 600 AS WELL AS MEETING ALL ADA REQUIREMENTS.
3. ALL CONSTRUCTION EQUIPMENT ACTIVITY AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE STUDENT ARRIVAL AND DISMISSAL TIMES. ALL CONSTRUCTION EQUIPMENT ACTIVITY ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.
4. IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER TO ESTABLISH AN ALTERNATE CROSSING/ROUTE.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKINGS AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ALL LOCATIONS OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, BUT ONLY IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.
7. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600 OR AT BROWARD@TRAFFIC.ORG TO DISCUSS ALL NECESSARY SAFETY MEASURES.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT PERSONNEL IF CONSTRUCTION WILL IMPACT ANY BUS ROUTES:

| NAME | SECTION | PHONE | EMAIL |
|------------------|--|-------------------------------|-------------------------------------|
| RUTH MASTERS | ROUTING | (754) 321-4400 EXT. # 2309 | RUTH.MASTERS@BROWARDSCHOOLS.COM |
| VINCENT HARRELL | STUDENT TRANSPORTATION & FLEET SERVICE | (754) 321-4472 | VINCENT.HARRELL@BROWARDSCHOOLS.COM |
| MARY TOCHTERMANN | STUDENT TRANSPORTATION & FLEET SERVICE | (754) 321-4400 EXT. # 2006 | MARY.TOCHTERMANN@BROWARDSCHOOLS.COM |



9. UPON COORDINATION WITH THE AFOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRE-CONSTRUCTION MEETING WILL BE HELD TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THE SPECIAL PROJECTS COORDINATOR FROM THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, WILL BE NOTIFIED AND MAY ATTEND THE PRE-CONSTRUCTION MEETING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF TRAFFIC PLAN (MOT), SPECIFYING THE ABOVE SCHOOL/PEDESTRIAN CONDITIONS, THROUGH THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION OR THE LOCAL MUNICIPALITY, DEPENDING ON THE ROADWAY JURISDICTION. THE CONDITIONS OUTLINED IN THE MOT ARE FULLY EFFECTIVE AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK ASSOCIATED WITH THE PROJECT IS IN COMPLIANCE WITH ALL THE REQUIREMENTS OF THE APPROVED MOT.
11. THE CONTRACTOR SHALL ENSURE THAT THERE ARE NO SPEED LIMIT SIGNS INSTALLED WITHIN THE DESIGNATED REDUCED SPEED SCHOOL ZONE AT ANY TIME THROUGHOUT THE PROJECT.



BROWARD COUNTY COMMUNICATION NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS - COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.
2. IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
3. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
4. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON :

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

UTILITY OWNER CONTACT PERSON :

INTERCONNECT COMMUNICATIONS CABLES - (ROBERT BLOUNT) BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) 954-847-2745



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

BROWARD COUNTY COMMUNICATION NOTES

CAM 21-0345

Exhibit 3

DETAIL NO.
GNRL
006

REVISED:
2016/09/27

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

SCHOOL ZONE INSTALLATION REQUIREMENTS WITHIN BROWARD COUNTY:

1. THE CONTRACTOR SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE FOLLOWING MANUALS:
 - A. THE FDOT DESIGN STANDARDS
 - B. THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - C. THE BROWARD COUNTY MINIMUM STANDARDS APPLICABLE TO PUBLIC RIGHTS-OF-WAY
2. FOR THE LATEST EDITION OF SCHOOL FLASHER DETAIL SHEETS AND MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIANS NOTES, SEE THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S WEB SITE AT:
[HTTP://WWW.BROWARD.ORG/TRAFFIC/PAGES/PUBLICATIONS.ASPX](http://WWW.BROWARD.ORG/TRAFFIC/PAGES/PUBLICATIONS.ASPX).
3. THE "MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIAN" NOTES SHALL APPEAR ON THE PLAN AS INDICATED. DEPENDING ON THE JURISDICTION OF THE ROADWAY THE CONTRACTOR WILL UTILIZE EITHER THE BCTED OR FDOT VERSION, WHICH WILL BE DETERMINED BY THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED.
4. SCHOOL FLASHER PLANS ARE VALID FOR EIGHTEEN (18) MONTHS FROM DATE OF APPROVAL. AFTER THAT DATE, PLANS SHALL BE RESUBMITTED FOR APPROVAL.
5. NO SCHOOL FLASHER AND/OR ASSOCIATED EQUIPMENT SHALL BE PLACED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY OR ON PRIVATE PROPERTY WITHOUT THE PRIOR ACQUISITION OF THE NECESSARY TRAFFIC ENGINEERING EASEMENTS BY THE CONSULTANT/CONTRACTOR. THESE EASEMENTS SHALL BE LARGE ENOUGH TO ALLOW ACCESS TO THE TRAFFIC ENGINEERING EQUIPMENT BY TECHNICIANS AND BY LARGER VEHICLES WHICH MAY REQUIRE ACCESS TO THE EQUIPMENT. THE SIZE AND LOCATION OF THE EASEMENTS WILL BE DETERMINED ON A CASE-BY-CASE BASIS. THE EASEMENTS SHALL BE RECORDED DOCUMENTS AND A COPY OF THE FULLY EXECUTED RECORDED EASEMENT SHALL BE PROVIDED TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR PRIOR TO INSTALLATION.
6. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED FOR APPROVAL, ALL OF THE EQUIPMENT SPECIFICATIONS (I.E. SHOP DRAWINGS) FOR ALL MATERIALS PROPOSED FOR THE PROJECT. SEE SECTION 603 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SUBMITTAL DATA REQUIREMENTS. INCLUDED IN THE SUBMITTAL SHALL BE SHOP DRAWINGS FOR GROUND MOUNT AND/OR MAST ARM DETAILS, AS APPLICABLE.
7. IF ELECTRICAL SERVICE IS REQUIRED, THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO BCTED, SYSTEMS SECTION - DESIGN ENGINEER, TO PROVIDE BILLING AUTHORIZATION TO FPL. THIS IS REQUIRED BEFORE ELECTRICAL SERVICE CAN BE OBTAINED. THE REQUEST SHALL INCLUDE A STATEMENT CERTIFYING THAT THIS ELECTRICAL INSTALLATION MEETS OR EXCEEDS ALL APPLICABLE REQUIREMENTS OF ALL APPLICABLE CODES AND IS NOW READY FOR CONNECTION TO FPL FACILITIES. ALSO INCLUDE THE DATE SERVICE IS REQUIRED BY IN THE REQUEST.
8. THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED EITHER BY FAX; 954-847-2700 OR E-MAIL; TRAFFIC@BROWARD.ORG TO SCHEDULE AN INSPECTION OF THE COMPLETE INSTALLATION, INCLUDING THE INTERIM SIGNING AND PAVEMENT MARKING PLAN. ACTIVATION OF THE FLASHERS SHALL ONLY BE PERMITTED AFTER SAID INSPECTION.



9. THE CONTRACTOR SHALL PROVIDE SIX (6) SETS OF MARKED UP (AS-BUILT) CONSTRUCTION PLANS TO THE ENGINEER AND BCTED AS DEFINED IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 611, SEVEN (7) DAYS PRIOR TO SCHOOL FLASHER CONDITIONAL ACCEPTANCE INSPECTION BY BCTED. THE CONTRACTOR SHALL ALSO PROVIDE TWO SETS OF AS-BUILT PLANS TO BCTED SIGNAL TECHNICIAN AT THE TIME OF INSPECTION. TWO COPIES OF CABINET PRINTS, TWO SETS OF CABINET KEYS AND PAGER/TIME SWITCH OPERATION MANUALS FOR EACH LOCATION SHALL ALSO BE TURNED OVER AT THIS TIME.
10. THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRICAL CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF PROPOSED SCHOOL FLASHERS MAY LIMIT THE TYPE OF EQUIPMENT THAT CAN BE USED IN CONSTRUCTION OF THE SCHOOL FLASHER. THE CONTRACTOR SHALL COORDINATE WITH FPL TO DEACTIVATE LINES IF NECESSARY.
11. ALL SIGN ASSEMBLIES SHOWN OR NOTED ON THE PLAN SHEETS FOR REMOVAL SHALL BE DELIVERED TO THE BCTED OPERATIONS BUILDING, 2300 WEST COMMERCIAL BLVD., FORT LAUDERDALE. EXISTING FLASHERS ARE NOT TO BE REMOVED UNTIL AFTER THE NEW UNIT HAS PASSED ITS FINAL INSPECTION.
12. SIGN LOCATIONS MAY BE VARIED IN THE FIELD AS NECESSARY IN ORDER TO AVOID CONFLICTS WITH UNFORESEEN OBSTACLES, DRIVEWAYS, ETC. ANY SIGN LOCATION VARIATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND SHOWN ON THE AS BUILTS.



DRAINAGE NOTES:

1. DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) OR REINFORCED CONCRETE (RCP), THE USE OF RCP PIPE FOR PUBLIC ROADWAY CROSSINGS IS PREFERRED.
2. CATCH BASINS, INLETS AND JUNCTION BOXES SHALL NOT BE INSTALLED IN DRIVEWAYS.
3. PRIOR TO BACKFILLING EXFILTRATION TRENCHES, DRAINAGE INLETS OR MANHOLES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING INSPECTOR FOR AN INSPECTION.
4. DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY CITY.
5. ALL PIPES SHALL BE LAID IN DRY TRENCH. ALL MUCK OR UNSUITABLE MATERIALS IN TRENCHES, INLETS OR MANHOLES SHALL BE REMOVED AND BACKFILLED WITH SELECTED MATERIAL APPROVED BY THE ENGINEER.
6. MINIMUM COVER FOR HDPE PIPE UNDER ASPHALT SHALL BE 24-INCH COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
8. MAINTENANCE ACCESS SHALL BE PROVIDED ON BOTH SIDES OF EXFILTRATION TRENCHES IN THE FORM OF MANHOLES OR CATCH BASINS. THE MAXIMUM DISTANCE BETWEEN STORM STRUCTURES SHALL NOT EXCEED TREE HUNDRED (300) FEET).
9. ALL EXFILTRATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DOCUMENT TITLED "DRAINAGE DESIGN GUIDE", LATEST EDITION.
10. GEOTEXTILE MATERIALS USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FLORIDA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS LATEST EDITION AND CITY OF FORT LAUDERDALE'S SPECIFICATIONS.



DEMOLITION NOTES:

GENERAL DEMOLITION SPECIFICATIONS :

1. THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
2. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND OTHER FEATURES AFFECTING THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MIGHT IMPACT THE WORK.
3. CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
4. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.
5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
6. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED.
7. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED.
 - 7.1. DEMOLITION AND REMOVAL OF A 5' MIN.± STRIP OF EXISTING ON-SITE ASPHALT, CONCRETE AND CURBING AROUND THE PERIMETER OF THE EXISTING STRUCTURES AND UTILITIES BEING DEMOLISHED.
 - 7.2. REMOVAL OF EXISTING ON-SITE ABOVEGROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
8. PRIOR TO REMOVAL OF ANY UNDERGROUND TANK AND OTHER COMPONENT, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL TO AN APPROVED LOCATION, AS REQUIRED BY DISPOSAL PERMIT.
9. PROTECT ALL UTILITIES, UNLESS OTHERWISE NOTED.
10. ALL THE CONCRETE AND PAVEMENT TO BE REMOVED MUST BE SAW CUT CLEAN PRIOR TO REMOVAL.
11. WET DOWN MASONRY WALLS AND DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST (AS APPLICABLE TO PROJECT).
12. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER ON-SITE EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR (AS APPLICABLE TO PROJECT).



13. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ON THE DRAWINGS ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
14. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO REMOVAL OR RELOCATION OF ANY ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES. SUFFICIENT TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
15. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER/ENGINEER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINANT IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
16. FILL FOR LOWER LEVELS OF DEMOLISHED STRUCTURES MAY INCLUDE CONCRETE OR MASONRY RUBBLE RESULTING FROM DEMOLITION, SUBJECT TO THE ENGINEER'S/ARCHITECT'S APPROVAL. RUBBLE SHALL PASS THROUGH A THREE-INCH RING.
17. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS.
18. MAINTAIN ACCESS TO SURROUNDING PROPERTIES AND BUILDINGS.
19. PRIOR TO DEMOLITION OCCURRING ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
20. ALL TRAFFIC SIGNS OUTSIDE THE DEMOLITION AREA ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.
21. ANY MUCK ENCOUNTERED UNDER PROPOSED STRUCTURES SHALL BE REMOVED TO FIVE-FEET BEYOND THE FOOTPRINT OF THAT STRUCTURE. BACKFILL WITH APPROVED FILL MATERIAL SATISFYING ALL COMPACTION REQUIREMENTS.
22. ALL EXISTING UTILITIES WITHIN THE DEMOLITION SITE AREA SHALL BE ADJUSTED, REMOVED OR RELOCATED AT THE CONTRACTOR'S EXPENSE. WORK SHALL BE COORDINATED BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY COMPANY. ALL EXPENSES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
23. ALL TRASH, DEBRIS AND OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.



PRE-DEMOLITION RESPONSIBILITIES :

1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-DEMOLITION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND THE CONTRACTOR.
2. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK.
3. PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE FOR THE OWNER A LISTING OF THE FACILITIES THE CONTRACTOR SHALL UTILIZE FOR RECYCLING AND DISPOSAL OF SPECIFIC MATERIALS. CONTRACTOR TO INDICATE THE MATERIALS INTENDED FOR RECYCLING AND THE MATERIALS INTENDED FOR DISPOSAL FOR OWNER'S APPROVAL.
4. PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE THE OWNER SKETCHES SHOWING PROPOSED HAULING ROUTES TO RECYCLING AND DISPOSAL FACILITIES FOR APPROVAL.
5. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF DEMOLITION.
6. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CITY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
8. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY.
9. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL FIELD LOCATE EXISTING UNDERGROUND UTILITIES WITH THE UTILITY OWNERS.
10. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATION'S OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON DEMOLITION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
11. SUNSHINE STATE ONE CALL OF FLORIDA, INC. REQUIRES THE CONTRACTOR TO CALL TWO (2) FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) PRIOR TO BREAKING GROUND TO FIND OUT WHERE BURIED FACILITIES (ELECTRICAL, GAS, TELEPHONE, CABLE, WATER) ARE LOCATED.



DEMOLITION SAFETY:

1. ALL DEMOLITION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
2. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE UNNECESSARILY BLOCKED BY DEBRIS AND EQUIPMENT.
3. BUILDING MATERIALS TO BE REMOVED SHALL BE TESTED FOR ASBESTOS AND LEAD PAINT.
4. IF PETROLEUM PRODUCTS ARE FOUND WHILE DEMOLISHING, DISPOSE OF PETROLEUM WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PAVEMENT DEMOLITION:

1. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF DEMOLITION RESULTS IN RAVELING OF SAW CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
2. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED WITH NEW PAVEMENT, ETC. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
3. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE DRAWINGS. HOWEVER, IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, BUILDINGS, UTILITIES, ETC., THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPLACEMENT. REPLACEMENT PAVEMENT, SIDEWALK, ETC., SHALL BE NEW.



DEMOLITION PERMITTING:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES WHILE FULLY ACKNOWLEDGING AND COMPLYING WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
2. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION, RECYCLING OR REUSE REQUIRED TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
3. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL AND/OR RELOCATION OF ALL EXISTING LANDSCAPING WITHIN DEMOLITION AREAS TO BE CONDUCTED BY A LANDSCAPE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE SITEWORK DEMOLITION CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PRESERVING TREES AS INDICATED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TREE REMOVAL PERMIT OR ANY OTHER APPLICABLE PERMIT TO REMOVE, RELOCATE, OR PRESERVE EXISTING LANDSCAPE AND TREES.
4. ANY TREES FOR REMOVAL FOUND TO BE GREATER THAN OR EQUAL TO THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT (DBH) SHALL REQUIRE A PERMIT WITH THE BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT (BCEPGMD).
5. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE THE LIGHTING, STORM INLET STRUCTURES, OR OTHER STRUCTURES DESIGNATED TO BE SAVED, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.



DEMOLITION EROSION AND SEDIMENT CONTROL NOTES :

1. THE SCHEDULING, SEQUENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO THE FINAL DEFINITION BY THE CONTRACTOR WHO SHALL BE SELECTED TO PERFORM THE WORK AND SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
2. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN ENCOMPASSING THE PRINCIPALS AND THE REQUIREMENTS DESCRIBED HEREIN AND A SCHEDULE FOR THEIR IMPLEMENTATION AND MAINTENANCE FOR THE PROJECT DURATION.
3. DURING DEMOLITION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING DRAINAGE SYSTEMS AND ADJACENT WATER BODIES AND WETLANDS, IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES.
4. METHODS MAY INCLUDE TEMPORARY EROSION AND SEDIMENT CONTROLS SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, SILT SCREENS, TURBIDITY BARRIERS OR THE BEST MANAGEMENT PRACTICES AVAILABLE TO THE INDUSTRY.
5. EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PERIOD AND UNTIL NEW VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
6. THROUGHOUT THE DEMOLITION PERIOD, THE CONTRACTOR SHALL INSPECT DAILY THE EROSION AND SEDIMENT CONTROL INSTALLATIONS FOR FAILURE OR SIGNS OF FAILURE OR MALFUNCTION. REPAIR OR REPLACE THE EROSION AND SEDIMENT CONTROL INSTALLATIONS IMMEDIATELY UPON DISCOVERY OF FAILURE OR MALFUNCTION.
7. INLETS AND CATCH BASINS, EXISTING ON-SITE AND OFF-SITE, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF.
8. THE CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO DEMOLITION.
9. DEWATERING ACTIVITIES SHALL NOT RESULT IN ANY DISCHARGE OF TURBID WATER FROM THE PROJECT SITE WITHOUT PROPER EROSION AND SEDIMENT CONTROL AND APPROVAL FROM ENGINEER.
10. PHASING OF EROSION CONTROL DEMOLITION SHALL BE RECOMMENDED AS FOLLOWS:
 - 10.1. PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, TURBIDITY BARRIERS, ETC.) AROUND ON-SITE FEATURES TO BE RETAINED, AT POINTS OF OFF-SITE DISCHARGE AND AROUND WORK AREAS TO BE EXCAVATED OR FILLED.
 - 10.2. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEMOLITION AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY DEMOLITION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION OCCURS (AS APPLICABLE TO THE PROJECT).



- 10.3. SELECT LOCATIONS FOR PLACEMENT OF EXCAVATED MATERIAL, WHERE SUITABLE FOR FILL OR UNSUITABLE MATERIAL, AND CONSTRUCT CONTAINMENT BERMS AROUND THE AREA. THE USE OF STRIPING FOR THIS PURPOSE MAY ACCELERATE BERM REVEGETATION. CONSTRUCT TEMPORARY OUTLETS FOR CONTAINMENT AREAS WITH SCREENS, HAY BALES, SETTLING BASINS OR OTHER MEASURES TO PREVENT SILT TRANSPORT.
- 10.4. SELECT / DESIGNATE ACCESS ROUTING FOR DEMOLITION EQUIPMENT AND VEHICLES AND PROVIDE PERIMETER PROTECTIVE MEASURES WHERE EXISTING TERRAIN SHALL BE SUBJECT TO DISRUPTION BY SUCH TRAFFIC.
- 10.5. CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR DEMOLITION AREA RUNOFF. PROVIDE SCREENS, HAY BALES, ETC. TO FILTER DISCHARGE FROM THOSE AREAS.
- 10.6. SPOIL MOUNDS SHALL NOT BE LEFT FOR MORE THAN ONE WEEK PRIOR TO REPLACEMENT UNLESS PROTECTIVE CONTAINMENT MEASURES IN THE WORK AREA ARE APPLIED.
- 10.7. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF REGRADING, SWALE SLOPES AND THE CONSTRUCTED OR DISTURBED AREAS.
11. THE CONTRACTOR IS REQUIRED TO ADHERE TO THE REQUIREMENT OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN ALL RECORDS REQUIRED BY ITS NPDES STORMWATER PERMIT FOR ITS CONSTRUCTION ACTIVITIES.
13. PRIOR TO CONSTRUCTION, A SILT FENCE IN ACCORDANCE WITH CITY'S DETAIL SHALL BE ERECTED AS NOTED ON PLANS. ALL PROPOSED CATCH BASINS SHALL HAVE THEIR INLETS PROTECTED BY THE INSTALLATION OF FILTER INLET INSERTS INTO THE FRAME AND GRATE. SILT FENCES AND FILTER INLET INSERTS SHALL REMAIN IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.
14. CONTRACTOR SHALL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO BEGINNING ANY WORK AND SHALL ENSURE ITS STABILIZATION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EXISTING SOD DISTURBED BY CONSTRUCTION THAT IS NOT AFFECTED BY PROPOSED GRADING SHALL BE RESTORED TO NEW CONDITION UPON COMPLETION OF CONSTRUCTION. SODDED SLOPES STEEPER THAN FOUR HORIZONTAL TO ONE VERTICAL SHALL BE PEGGED.
15. ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE CODES AND BECOME FAMILIAR WITH STATE, LOCAL AND FEDERAL REGULATIONS PRIOR TO BEGINNING CONSTRUCTION.
16. TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED, CONTRACTOR SHALL PUT INTO PRACTICE THE METHODS DETAILED IN FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 106 (2010 DESIGN STANDARDS) AND BMPs.



17. DUST GENERATED FROM CONSTRUCTION SHALL BE MINIMIZED BY DAILY WATERING OF THE SITE.
18. AT ANY TIME DURING CONSTRUCTION THAT THE SILT FENCING IS DISTURBED, THE SILT FENCING SHALL BE RESTORED TO ITS ORIGINAL STATE WITHIN 24 HOURS. AT NO TIME DURING CONSTRUCTION SHALL WORK BE PERFORMED WITHOUT THE INTEGRITY OF THE SILT FENCING SECURED.
19. A QUALIFIED INSPECTOR, PROVIDED BY THE CONTRACTOR, SHALL INSPECT ALL POINTS OF DISCHARGE INTO NEARBY SURFACE WATER. THE INSPECTION SHALL OCCUR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. INSPECTION INCLUDES THE WRITTEN RECORDING OF THE CONDITION OF ALL DISCHARGE POINTS, INTEGRITY OF SILT FENCING, DAILY DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR.
20. THE INSPECTION REPORT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION: NAME AND QUALIFICATION OF PERSONNEL MAKING THE INSPECTION, DATE OF INSPECTION, RAINFALL DATE, MAJOR OBSERVATIONS RELATING TO THE SWPPP, ACTIONS TAKEN BY CONTRACTOR AND ANY INCIDENT OF NONCOMPLIANCE WITH PERMIT. WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENT OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT.
21. THE CONTRACTOR SHALL RETAIN A COPY OF THE SWPPP AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THE PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
22. THE CONTRACTOR SHALL RETAIN THE SWPPP, NOI AND ALL RECORDS ASSOCIATED THEREWITH FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.
23. SEE LANDSCAPE PLANS FOR TREE REMOVAL AND LANDSCAPE DEMOLITION.
24. CONTRACTOR SHALL COORDINATE THROUGH CITY'S CONSTRUCTION DIVISION AND CITY'S PARKS DEPARTMENT ON HOW TO STOCK AND RE-USE EXCAVATED SOIL FROM SITE (AS APPLICABLE TO THE PROJECT).



INTERRUPTION OF EXISTING UTILITIES :

1. ANY DEMOLITION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR WRITTEN NOTICE TO, AND WRITTEN APPROVAL BY, THE APPROPRIATE UTILITY COMPANY.
2. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUT DOWN TO ASSESS THE SCOPE OF WORK.
3. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL-TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR.
4. EACH CUSTOMER AFFECTED BY THE SHUT-DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

TEMPORARY DEMOLITION FACILITIES :

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING DEMOLITION.
2. MAINTENANCE OF TRAFFIC (MOT) IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
3. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
4. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS WRITTEN PERMISSION OF THE CITY OR RESPECTIVE GOVERNING AGENCY.



WASTE MANAGEMENT PLAN:

1. IMPLEMENT A WASTE MANAGEMENT PLAN FOR APPROVAL BY THE OWNER. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION AND OTHER ITEMS AS NEEDED TO IMPLEMENT THE WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.
2. DESIGNATE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN. COORDINATOR SHALL BE PRESENT AT PROJECT SITE FULL-TIME FOR DURATION OF PROJECT.
3. TRAIN WORKERS, SUBCONTRACTORS AND SUPPLIERS ON PROPER WASTE MANAGEMENT PROCEDURES, AS APPROPRIATE FOR THE WORK AT THE PROJECT SITE.
4. DISTRIBUTE A WASTE MANAGEMENT PLAN BEFORE WORK BEGINS. REVIEW PLAN PROCEDURES AND LOCATION ESTABLISHED FOR SALVAGE, RECYCLING AND DISPOSAL.

RECYCLING DEMOLITION WASTE:

1. SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH AND DEBRIS. SEPARATE RECYCLABLE WASTE BY TYPE AT THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL.
2. PROVIDE APPROPRIATELY MARKED CONTAINERS OR BINS FOR CONTROLLING RECYCLABLE WASTE UNTIL THEY ARE REMOVED FROM THE PROJECT SITE. INCLUDE A LIST OF ACCEPTABLE AND UNACCEPTABLE MATERIALS AT EACH CONTAINER AND BIN.
3. INSPECT CONTAINERS AND BINS FOR CONTAMINATION AND REMOVE CONTAMINATED MATERIALS IF FOUND.
4. STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE, GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
5. STOCKPILE MATERIALS AWAY FROM DEMOLITION AREA. DO NOT STORE WITHIN DRIP LINE OF REMAINING TREES.
6. STORE COMPONENTS OFF THE GROUND AND PROTECT FROM THE WEATHER.
7. REMOVE RECYCLABLE WASTE OFF THE OWNER'S PROPERTY AND TRANSPORT TO RECYCLING RECEIVER OR PROCESSOR.
8. ASPHALTIC CONCRETE PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT RECYCLING FACILITY.
9. CONCRETE: REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER METALS.
10. MASONRY: MASONRY WASTE SHALL INCLUDE WHOLE OR BROKEN BRICK AND CONCRETE MASONRY UNITS. WHOLE MASONRY UNITS SHALL BE CLEANED AND REUSED OR DONATED. BROKEN MASONRY SHALL BE CRUSHED AND USED AS FILL FOR OFFSITE AREAS. REMOVE METAL REINFORCEMENT, ANCHORS AND TIES FROM MASONRY AND SORT WITH OTHER METALS.



11. METALS: METALS FROM REINFORCED CONCRETE, REINFORCED MASONRY, STRUCTURAL STEEL MEMBERS, FLASHING AND SHEET METAL, CONDUIT PIPE, SIDING, PIPING AND WIRING SHALL BE SEPARATED BY TYPE.
12. STRUCTURAL STEEL: STACK MEMBERS ACCORDING TO THEIR SIZE, TYPE AND LENGTH.
13. NUTS AND BOLTS: REMOVE BOLTS, NUTS, WASHERS AND OTHER ROUGH HARDWARE.
14. SITE-CLEARING WASTE SHALL BE RECYCLED BY CHIPPING BRUSH, BRANCHES AND TREES, THEN HAUL TO WOOD RECYCLING CENTER.

DISPOSAL OF WASTE:

1. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED, RECYCLED OR OTHERWISE REUSED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR OTHER PERMITTED DISPOSAL FACILITY.
2. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF TO ACCUMULATE ON-SITE.
3. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT SHALL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
4. BURNING: DO NOT BURN WASTE MATERIALS.
5. DISPOSAL: TRANSPORT WASTE MATERIALS OFF THE OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.



| MINIMUM DENSITY REQUIREMENTS | | | |
|---|---|-------------------------------|--|
| LOCATION | MATERIAL | MINIMUM DENSITY (% OF MAX) | TESTING FREQUENCY |
| ROADS (INCLUDES SIDEWALKS, ASPHALT PATHS) | BACKFILL | 98% | VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT TOP OF FIRST LIFT AND PROCEEDING UPWARD TO GRADE. |
| | SUBGRADE | 98% | HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF ROADWAY, SIDEWALK OR PATHWAY. |
| | BASE | 98% | |
| MANHOLES AND VAULTS (IN ROADS AND PARKING AREAS) | IN-PLACE SUBGRADE BENEATH STRUCTURES | 95% | VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT THE BOTTOM OF THE STRUCTURE AND PROCEEDING UPWARD TO GRADE. |
| | BACKFILL BENEATH STRUCTURES | 98% | |
| | BACKFILL AROUND STRUCTURES | 98% | HORIZONTAL DISTRIBUTION: PERFORM TESTING AT EACH STRUCTURE. |
| | CRUSHED STONE BENEATH STRUCTURES | NOTE 6 | |
| PARKING AREAS | BACKFILL | 98% | VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT TOP OF FIRST LIFT AND PROCEEDING UPWARD TO GRADE. |
| | SUBGRADE | 98% | HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED EVERY 6,000 SQUARE FEET OF PARKING AREA. |
| | BASE | 98% | |
| UTILITY TRENCH BACKFILL | BEDDING AND BACKFILL | 98% | VERTICAL DISTRIBUTION: ONE TEST AT EVERY LIFT STARTING AT THE SPRING LINE AND PROCEEDING UPWARD TO GRADE. HORIZONTAL DISTRIBUTION: TESTS SHALL BE PERFORMED AT RANDOMLY SELECTED LOCATIONS WITHIN EACH 300 FOOT INTERVAL (MAXIMUM) ALONG THE LENGTH OF A PIPE INSTALLATION, AND BETWEEN EACH SET OF STRUCTURES SEPARATED BY LESS THAN 300 FEET. |
| ROADS AND PARKING | ASPHALT | 94% | ASPHALT TESTING MAY BE DONE BY CORE SAMPLING OR NUCLEAR GAUGE DENSITY TESTING. ASPHALT TESTING SHALL BE AT MAXIMUM 300 LINEAR FOOT ALONG ROADWAYS AND 6,000 SQUARE FOOT INTERVALS FOR PARKING AREAS. |

NOTES:

1. THE DENSITY REQUIREMENTS PRESENTED ASSUME DRY TRENCH CONDITIONS.
2. UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS, TESTING SHALL COMPLY WITH THE REQUIREMENTS PRESENTED IN THIS TABLE.
3. LIFT THICKNESSES FOR BASE, SUBGRADE AND BACKFILL SHALL BE AS INDICATED ON THE DETAILS OR DESCRIBED IN THE SPECIFICATIONS.
4. MAXIMUM DENSITY SHALL BE DETERMINED BY ASTM D 1557 OR AASHTO T180 (MODIFIED PROCTOR).
5. FIELD DENSITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR D 2922.
6. THE AGGREGATE SHALL BE COMPACTED TO A DEGREE ACCEPTABLE TO THE ENGINEER BY USE OF A VIBRATORY COMPACTOR AND/OR CRAWLER TRACTOR.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

DENSITY TESTING NOTES













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Exhibit 3






































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



































CONTROL LEGEND:

| | | | | | |
|---|---------------|---|------------------------------|---|---------------------------------------|
|  | AERIAL TARGET |  | IRON PIPE |  | PERMANENT REFERENCE MONUMENT NAIL&TAB |
|  | BENCH MARK |  | IRON ROD |  | PK NAIL SPIKE |
|  | DRILL HOLE |  | NAIL&TAB |  | QUARTER SECTION CORNER |
|  | HUB & TACK |  | PERMANENT REFERENCE MONUMENT |  | SECTION CORNER |





































LEGEND:

| | |
|--|-----------------------------|
|  | AIR CONDITIONING UNIT |
|  | AIR RELEASE VALVE |
|  | ANCHOR |
|  | BACK FLOW PREVENTER |
|  | BASKET BALL HOOP |
|  | BOAT ANCHOR CLEAT |
|  | BUILDING COLUMN/PILE |
|  | BBQ GRILL |
|  | BOLLARD |
|  | CATV PEDESTAL |
|  | CATCH BASIN |
|  | CURB INLET |
|  | COMMUNICATION MANHOLE |
|  | COMMUNICATION VAULT |
|  | CONCRETE LIGHT POLE |
|  | CONCRETE POST |
|  | CONCRETE POWER POLE |
|  | CROSS FITTING |
|  | DOUBLE DETECTOR CHECK VALVE |
|  | DECORATIVE/YARD LIGHT POLE |
|  | DETECTOR CHECK VALVE |
|  | ELECTRICAL OUTLET |
|  | ELECTRICAL PEDESTAL |
|  | ELECTRICAL PULL BOX |
|  | ELECTRICAL MANHOLE |
|  | ELECTRICAL METER |
|  | ELECTRICAL VAULT |
|  | FIRE HYDRANT |
|  | FIBER OPTIC PEDESTAL |
|  | FLAG POLE |
|  | FORCE MAIN VALVE |
|  | GAS FUEL CAP |
|  | GAS MARKER |
|  | GAS METER |
|  | GAS VALVE |
|  | GAS WELL |
|  | GATE CONTROL BOX |
| | GREASE TRAP MH |
| | HOSE BIBB |

LEGEND:

| | |
|---|--------------------------|
|  | IRRIGATION CONTROL VALVE |
|  | LIFT STATION |
|  | LIFT STATION CAN |
|  | LP GAS TANK |
|  | MAILBOX |
|  | MAIL DROP BOX |
|  | MARKER POST |
|  | METAL LIGHT POLE |
|  | MONITORING WELL |
|  | OUTFALL |
|  | PARK BENCH |
|  | PEDESTRIAN SIGNAL |
|  | PILE |
|  | PIN FLAG |
|  | PIPE |
|  | PARKING LIGHT 1 BULB |
|  | PARKING LIGHT 1 BULB |
|  | PARKING LIGHT 2 BULBS |
|  | PARKING LIGHT 2 BULBS |
|  | PARKING LIGHT 3 BULBS |
|  | PARKING LIGHT 3 BULBS |
|  | PARKING LIGHT 4 BULBS |
|  | PARKING LIGHT 4 BULBS |
|  | PARKING METER |
|  | PARKING METER (DOUBLE) |
|  | PLUG |
|  | POST INDICATOR VALVE |
|  | REDUCER |
|  | ROOF DRAIN |
|  | RAILROAD CROSSING GATE |
|  | REDUCER FITTING |
|  | SANITARY CLEAN OUT |
|  | SANITARY MANHOLE |
|  | SANITARY WYE LATERAL |
|  | SIAMESE VALVE |
|  | SIGN |
|  | SIGN DOUBLE POST |
| | SPOT-FLOOD LIGHT |
| | SPRINKLER HEAD |

LEGEND:

| | |
|---|------------------------|
|  | SQUARE COLUMN |
|  | STEEL I-BEAM |
|  | STORM CLEAN OUT |
|  | STORM MANHOLE |
|  | STORM DRAINAGE VAULT |
|  | TEE FITTING |
|  | TELEPHONE BOOTH |
|  | TELEPHONE JUNCTION BOX |
|  | TELEPHONE MANHOLE |
|  | TELEPHONE ON PEDESTAL |
|  | TELEPHONE PEDESTAL |
|  | TELEPHONE PULL BOX |
|  | TELEPHONE VAULT |
|  | TEST HOLES |
|  | TOWER |
|  | TRAFFIC CONTROL |
|  | TRAFFIC POLE |
|  | TRAFFIC PULL BOX |
|  | TRANSFORMER PAD |
|  | TRASH CAN |
|  | TRASH CAN |
|  | UNKNOWN MANHOLE |
|  | VALLEY CURB INLET |
|  | BLOW-OFF VALVE |
|  | WATER MANHOLE |
|  | WATER METER |
|  | WATER METER (DOUBLE) |
|  | WATER PUMP |
|  | WATER VALVE |
|  | WATER VAULT |
|  | WATER WELL |
|  | WOOD POST |
|  | WOOD LIGHT POLE |
|  | WOOD TELEPHONE POLE |
|  | WOOD POWER POLE |
|  | YARD DRAIN |



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

SYMBOLS AND ABBREVIATIONS

SHEET 1

CAM 21-0345

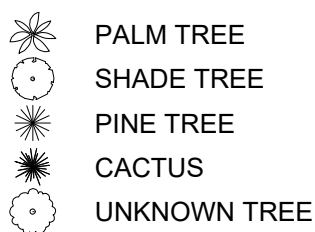
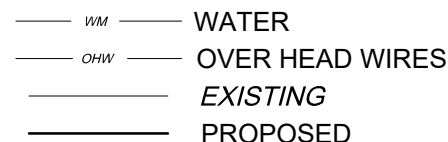
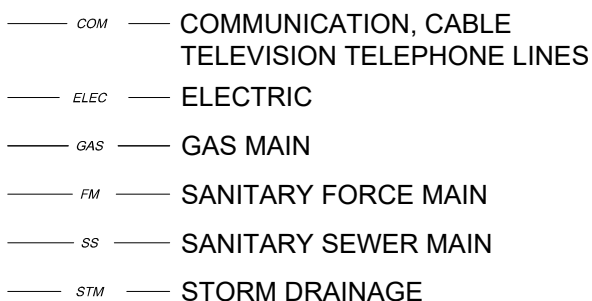
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LANDSCAPING SYMBOLS:LINE TYPES:VALVE AND FITTING ABBREVIATIONS:

| | |
|--------|--------------------------|
| ARV | AIR RELIEF VALVE |
| BF | BLIND FLANGE |
| BFV | BUTTERFLY VALVE |
| BV | BALL VALVE |
| CO | CLEAN OUT |
| CPLG | COUPLING |
| CV | CHECK VALVE |
| DV | DIAPHRAGM VALVE |
| EXP JT | EXPANSION JOINT |
| FCO | FLOOR CLEAN OUT |
| FD | FLOOR DRAIN |
| FH | FIRE HYDRANT |
| FLG | FLANGE |
| FS | FLOOR SINK |
| GV | GATE VALVE |
| HB | HOSE BIBB |
| HD | HUB DRAIN |
| ICV | IRRIGATION CONTROL VALVE |
| LR | LONG RADIUS |
| MJ | MECHANICAL JOINT |
| NPT | NATIONAL PIPE THREAD |
| PE | PLAIN END |
| PV | PLUG VALVE |
| PRV | PRESSURE RELIEF VALVE |
| RED | REDUCER |
| SOV | SOLENOID OPERATED VALVE |
| THD | THREADED |
| VAC | VACUUM |

PIPING:

| | |
|------|--------------------------------|
| CIP | CAST IRON PIPE |
| CMP | CORRUGATED METAL PIPE |
| CU | COPPER OR CUBIC |
| DIP | DUCTILE IRON PIPE |
| GIP | GALVANIZED PIPE |
| GSP | GALVANIZED STEEL PIPE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| IP | IRON PIPE |
| PCCP | PRECAST CONCRETE CYLINDER PIPE |
| PVC | POLYVINYLCHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SCP | SECONDARY CONTAINMENT PIPE |
| SS | STAINLESS STEEL PIPE |



GENERAL:

| | | | |
|----------|---------------------|----------|--------------------------------------|
| A | ARC DISTANCE | DISCH | DISCHARGE |
| AB | ANCHOR BOLT | DMH | DRAIN MANHOLE |
| A/C | AIR CONDITIONER | DN | DOWN |
| ACU | AIR CONDENSATE UNIT | DR | DRAIN |
| AL, ALUM | ALUMINUM | DWL | DOWEL |
| a | ANGLE | DWG | DRAWING |
| APPROX | APPROXIMATE | EA | EACH |
| ARCH | ARCHITECTURAL | ECC | ECCENTRIC |
| BLDG | BUILDING | EE | EACH END |
| BLK | BLOCK | EF | EACH FACE |
| BM | BENCHMARK | EL, ELEV | ELEVATION |
| BOTT | BOTTOM | ELEC | ELECTRIC |
| BOW | BACK OF WALK | ENGR | ENGINEER |
| BP | BID PACKAGE | EOP | EDGE OF PAVEMENT |
| CA | CENTRAL ANGLE | EW | EACH WAY |
| CB | CATCH BASIN | EQUIP | EQUIPMENT |
| CC | CENTER TO CENTER | ES | ELECTRICAL SERVICE |
| CHK'D | CHECKERED | ESC | EROSION AND SEDIMENT CONTROL |
| C.I. | CURB INLET | EXH | EXHAUST |
| CJ | CONSTRUCTION JOINT | EXIST | EXISTING |
| CL, q | CENTER LINE | EXP | EXPANSION |
| CLF | CHAIN LINK FENCE | EXT | EXTERIOR |
| CLR | CLEAR | FDOT | FLORIDA DEPARTMENT OF TRANSPORTATION |
| COL | COLUMN | FDR | FLOOR DRAIN |
| CO | COMPANY | FE | FIRE EXTINGUISHER |
| CONC, C | CONCRETE | FF | FINISH FLOOR |
| CONST | CONSTRUCTION | FG | FINISH GRADE |
| CONT | CONTINUOUS | FIN | FINISH |
| CONTR | CONTRACTOR | FL | FLOOR |
| CP | CONCRETE POST | FM | FORCE MAIN |
| DET | DETAIL | FND | FOUND |
| DIA | DIAMETER | FP | FLAG POLE |
| DIAG | DIAGONAL | FT | FOOT OR FEET |
| DIM | DIMENSION | FTG | FOOTING OR FITTING |
| DIR | DIRECTION | GALV | GALVANIZED |



| | | | |
|--------|-------------------------|----------|----------------------------------|
| GPM | GALLONS PER MINUTE | NAVD | NORTH AMERICAN VERTICAL DATUM |
| GR | GRADE | NGVD | NATIONAL GEODETIC VERTICAL DATUM |
| H | HIGH | NIC | NOT IN CONTRACT |
| HORIZ | HORIZONTAL | NO | NUMBER |
| HP | HIGH POINT | NTS | NOT TO SCALE |
| HS | HIGH SERVICE | OC | ON CENTER |
| HWL | HIGH WATER LEVEL | OD | OUTSIDE DIAMETER |
| ID | INSIDE DIAMETER | OHW | OVERHEAD WIRES |
| IE | INVERT ELEVATION | OPNG | OPENING |
| IF | INSIDE FACE | P/L | PROPERTY LINE |
| IN | INCH | PS | PUMP STATION |
| INFL | INFLUENT | PT | PRESSURE TREATED |
| INJ | INJECTION | R | RIM |
| INSUL | INSULATION | RAD, R | RADIUS |
| INT | INTERIOR | RECIR | RECIRCULATION |
| INV | INVERT | RE | RIM ELEVATION |
| IP | IRON PIPE | REHAB | REHABILITATION |
| IRRIG | IRRIGATION | REINF | REINFORCING |
| IR | IRON ROD | REQ'D | REQUIRED |
| ISO | ISOLATION | R/W, ROW | RIGHT OF WAY |
| JCT | JUNCTION | SECT | SECTION |
| JT | JOINT | SHT | SHEET |
| LBS/FT | POUNDS PER FOOT | SLB | SIGNAL LIGHT BOX |
| LG | LONG | SMH | STORMWATER MANHOLE |
| LN | LINE | SPEC | SPECIFICATION |
| LP | LOW POINT OR LIGHT POLE | SQ | SQUARE |
| LR | LONG RADIUS | SS | STAINLESS STEEL |
| LWL | LOW WATER LEVEL | STL | STEEL |
| MANUF | MANUFACTURER | STRUC | STRUCTURAL |
| MAX | MAXIMUM | SYMM | SYMMETRICAL |
| MECH | MECHANICAL | TBD | TO BE DETERMINED |
| MGD | MILLION GALLONS PER DAY | TEMP | TEMPORARY |
| MH | MANHOLE | THK | THICK |
| MIN | MINIMUM | TI | TEMPERATURE INDICATOR |
| MO | MASONRY OPENING | TO | THROUGHOUT |
| MOV | MOTOR OPERATED VALVE | TOB | TOP OF BANK |



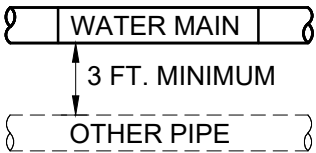
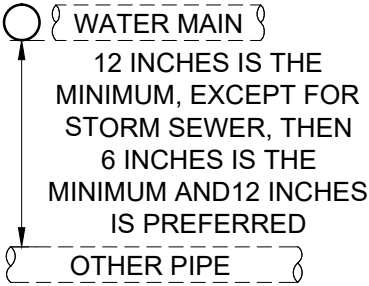
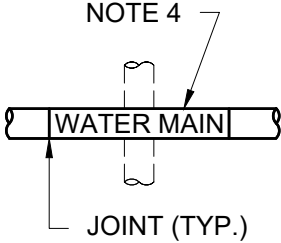
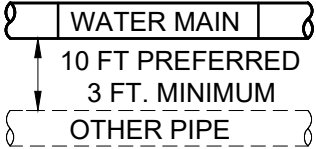
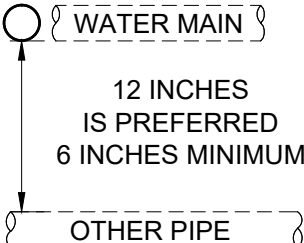
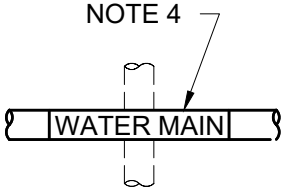
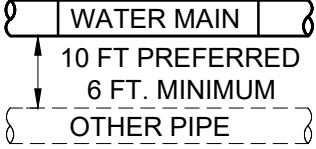
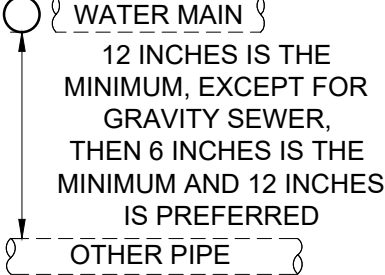
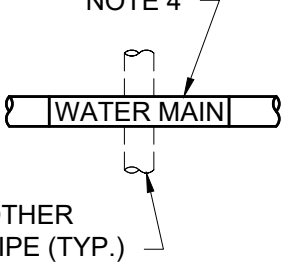
| | |
|------|----------------------|
| TOC | TOP OF CONCRETE |
| TOE | TOE OF SLOPE |
| TOP | TOP OF PIPE |
| TOS | TOP OF SLAB |
| TYP | TYPICAL |
| UGE | UNDERGROUND ELECTRIC |
| UNK | UNKNOWN |
| V | VENT |
| VERT | VERTICAL |
| VP | VENT PIPE |
| VTR | VENT THROUGH ROOF |
| W | WIDE |
| W/ | WITH |
| WATR | WATER |
| WGR | WOOD GUARDRAIL |
| W/L | WATER LEVEL |
| W/O | WITH OUT |
| WWF | WELDED WIRE FABRIC |
| WUP | WOOD UTILITY POLE |

FLOWSTREAM IDENTIFICATION:

| | |
|------|---------------------|
| ED | EQUIPMENT DRAIN |
| FM | FORCE MAIN |
| FR | FUEL RETURN |
| FS | FUEL SUPPLY |
| OF | OVERFLOW |
| PW | POTABLE WATER |
| RD | ROOF DRAIN |
| SA | SAMPLE |
| SAN | SANITARY SEWER |
| SPD | SUMP PUMP DISCHARGE |
| STRM | STORMWATER |
| WM | WATER MAIN |



WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

| OTHER PIPE | HORIZONTAL SEPARATION | CROSSINGS (NOTE 1) | JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED) |
|---|---|---|--|
| STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (NOTE 2) |  |  |  |
| VACUUM SANITARY SEWER |  |  |  |
| GRAVITY SANITARY SEWER, (NOTE 3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER |  |  |  |
| ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM | 10 FT. MINIMUM | — | — |

NOTES:

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATE JOINT LOCATIONS ALLOWED UNDER FAC 62-555.314 WILL ONLY BE ALLOWED BY THE ENGINEER ON A CASE-BY-CASE BASIS.



CITY OF FORT LAUDERDALE
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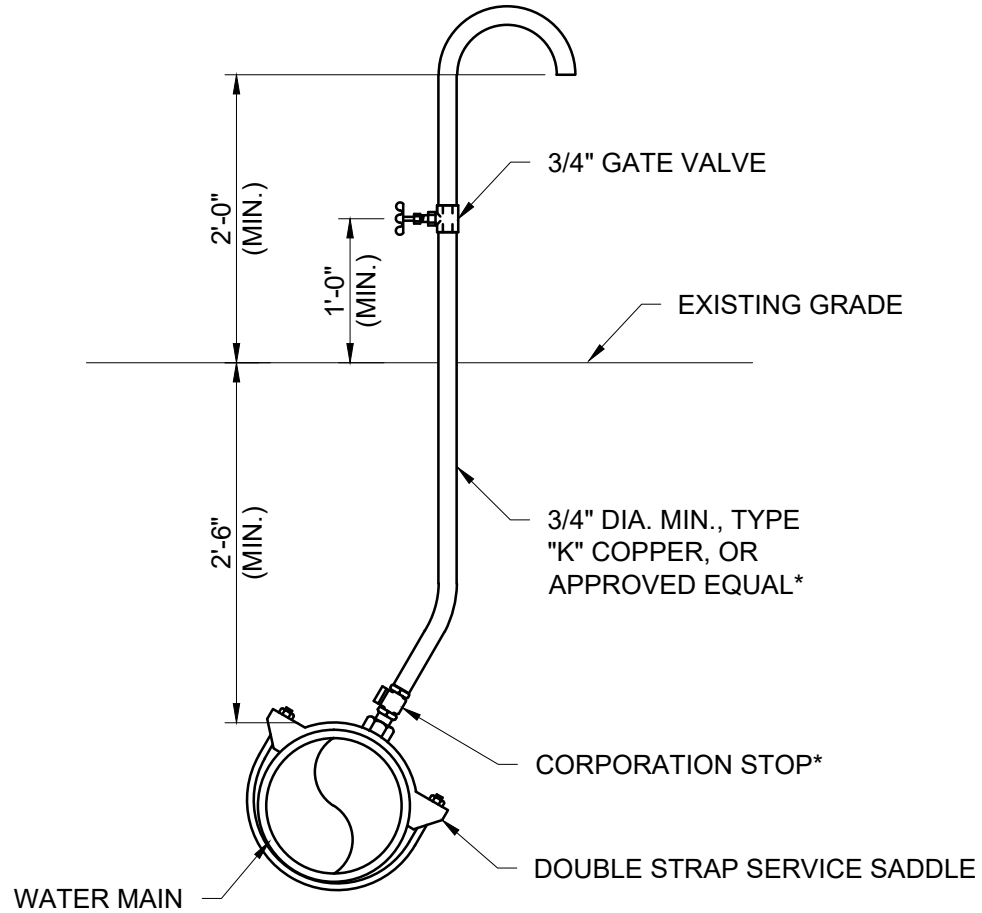
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WATER MAIN SEPARATION

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Exhibit 3

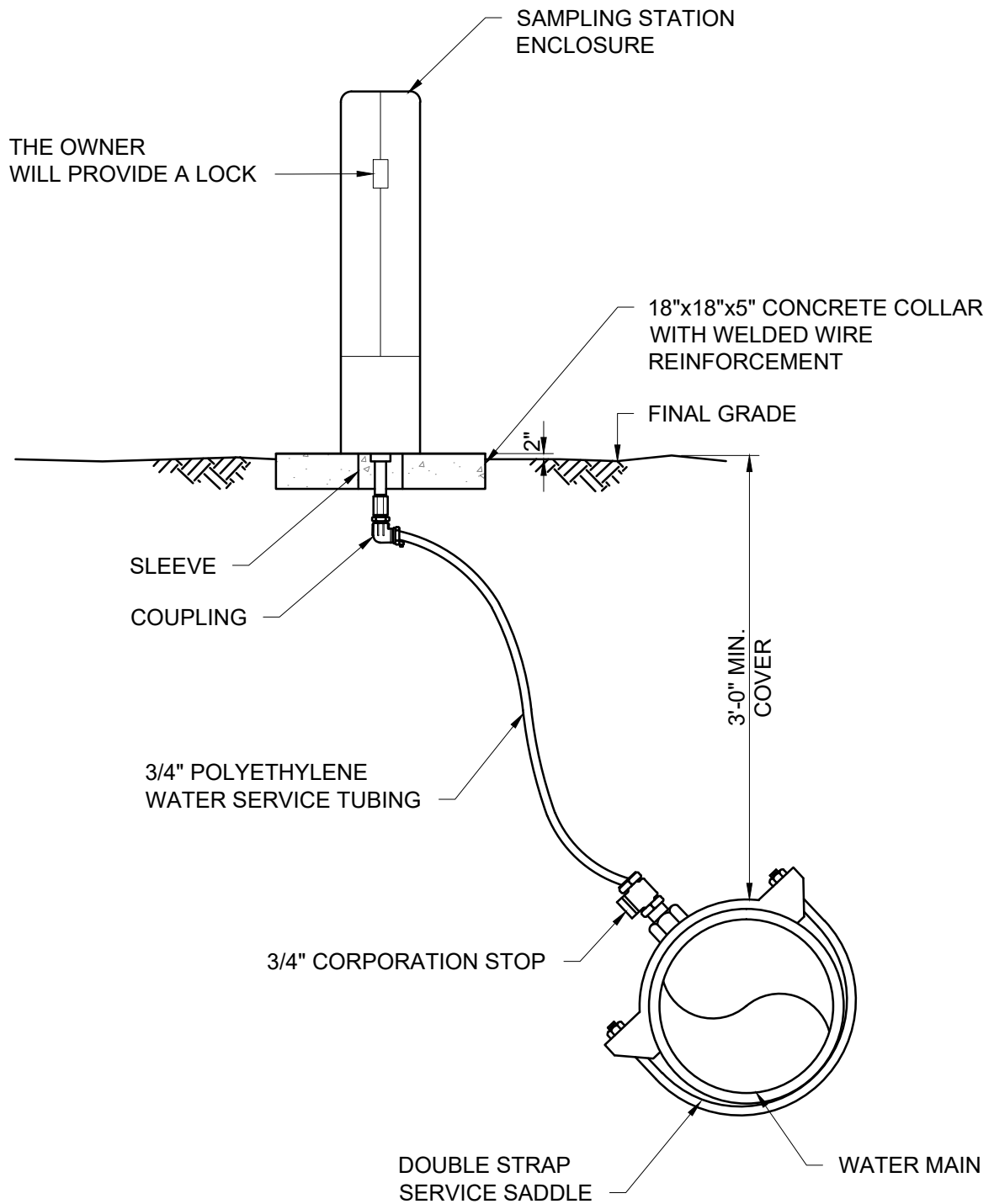
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* NOTE: AFTER TESTS REMOVE 3/4" TUBING AND INSTALL PLUG ON CORPORATION STOP.



**NOTES:**

1. ENCLOSURE SHALL BE PAINTED CAST ALUMINUM. ENCLOSURE COLOR SHALL BE GREEN.
2. SAMPLING STATION STAND PIPE AND VALVES SHALL BE LEAD FREE SURGICAL STAINLESS STEEL.
3. FURNISH AND INSTALL ECLIPSE #88WC-SS BY KUPFERLE FOUNDRY COMPANY.



CITY OF FORT LAUDERDALE
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BACT SAMPLE POINT - PERMANENT

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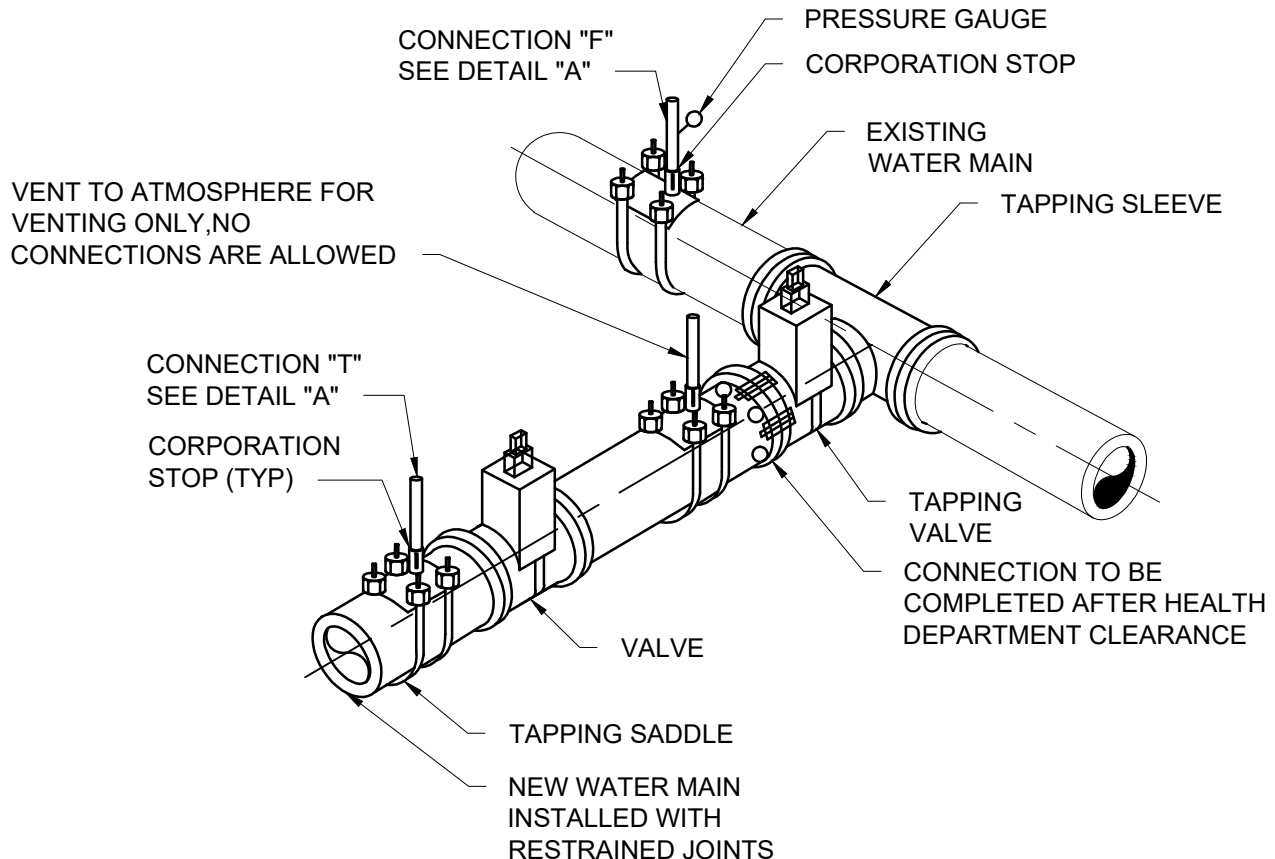
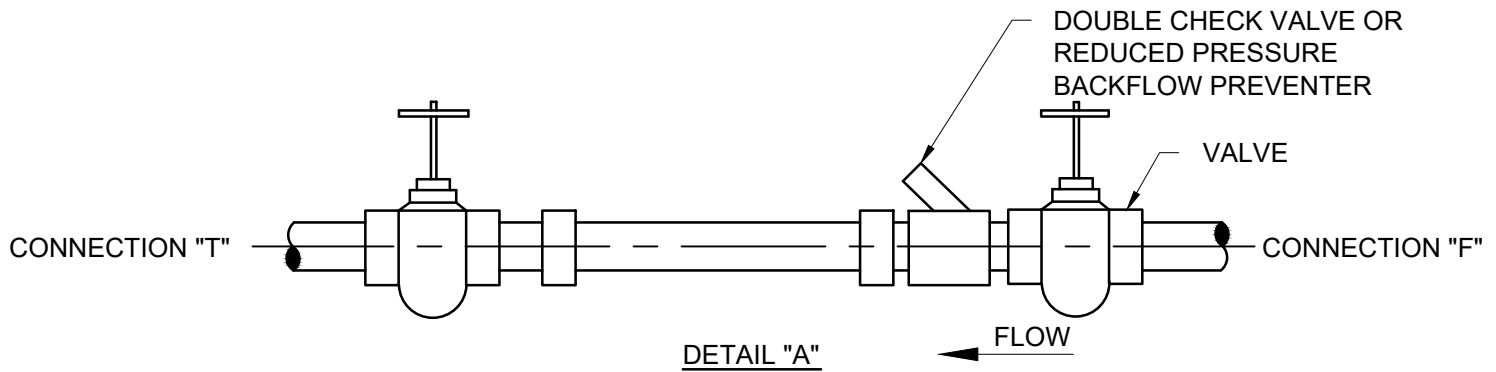
Exhibit 3

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**NOTES:**

1. REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON EXISTING MAIN AFTER FILLING AND FLUSHING OF NEW LINE.
2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN CLEARED BY HEALTH DEPARTMENT.
3. CLOSE CORPORATION STOPS AND PLUG/CAP WITH LEAD-FREE BRASS FITTINGS AFTER SAMPLING IS COMPLETED.
4. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.



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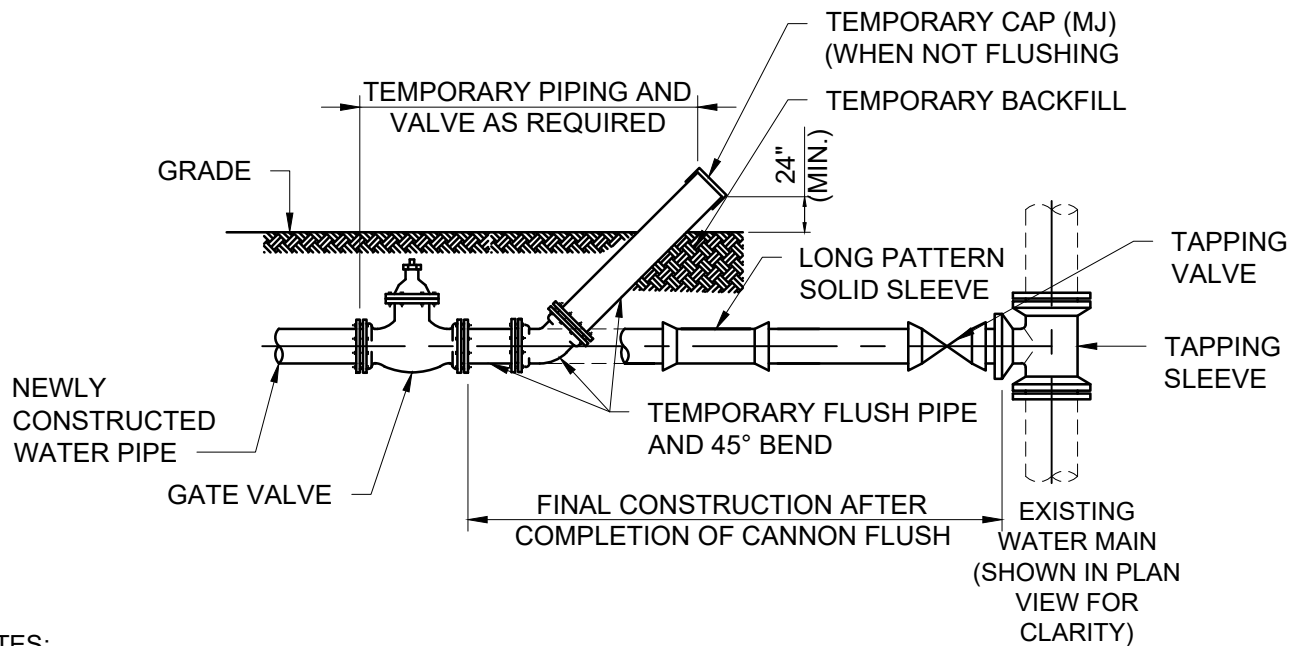
FILLING AND FLUSHING CONNECTION

CAM 21-0345

Exhibit 3

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**NOTES:**

1. FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER OF RECORD.
2. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
3. INSTALL A TEMPORARY 45° BEND, VALVE AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
4. BENDS AND PIPING SHALL BE THE SAME SIZE OR LARGER AS THE LINE BEING FLUSHED.
5. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION THE CONTRACTOR SHALL PROPERLY NOTIFY OWNER'S INSPECTOR OF SUCH INTENDED WATER USE.
6. NO EXISTING VALVES SHALL BE OPERATED, EXCEPT BY AUTHORIZED OWNER PERSONNEL.
7. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE OWNER'S INSPECTOR.
8. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
9. ALL PIPING SHALL BE RESTRAINED.
10. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.
11. CONTRACTOR IS CAUTIONED THAT GOVERNING AGENCIES OR UTILITIES MAY HAVE REGULATIONS LIMITING OR PROHIBITING DISCHARGE INTO SEWERS, SURFACE WATERS, CANALS, DITCHES AND OTHER CONVEYANCES/RETENTION AREAS. ALL COMPLIANCE WITH GOVERNING AGENCY REQUIREMENTS (INCLUDING PERMITTING, IF REQUIRED) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. CANNON FLUSHING TO PROCEED AFTER HEALTH DEPARTMENT CLEARANCE IS RECEIVED.

FLUSHING CONNECTION

NOT TO SCALE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

CANNON FLUSHING

CAM 21-0345

Exhibit 3

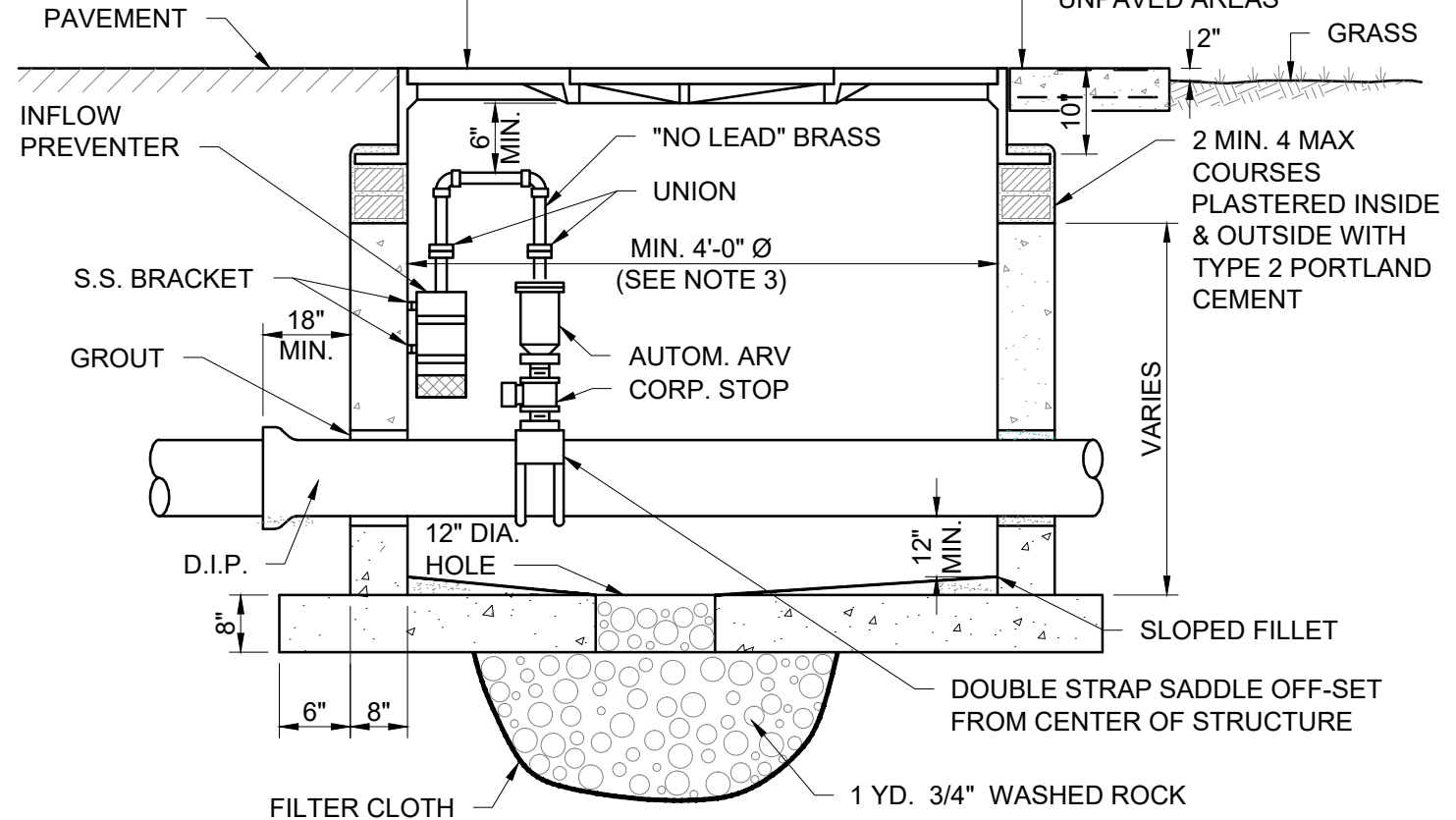
DETAIL NO.
WATR
005

REVISED:
2016/09/24

2/22/2021 9:55 AM

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DOUBLE LID MANHOLE COVER
MARKED "WATER ARV" & FRAME
U.S. FOUNDRY 690-AH-M



NOTES:

1. MANHOLE SHALL BE PRECAST AND DESIGNED BY FABRICATOR TO COMPLY WITH FDOT INDEX 200.
2. DUCTILE IRON PIPE IS REQUIRED WITHIN THE MANHOLE. NO PIPE JOINTS INSIDE OF MANHOLE.
3. LARGER MANHOLES REQUIRED FOR PIPES LARGER THAN 12", AS FOLLOWS:

| PIPE SIZE | MIN. MANHOLE DIAMETER |
|-----------|-----------------------|
| 16" - 24" | 60" |
| 30" - 42" | 72" |



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

AUTOMATIC AIR RELEASE VALVE
FOR AREAS THAT FLOOD
TYPE 1

CAM 21-0345
Exhibit 3

DETAIL NO.
WATR
006
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2016/09/24

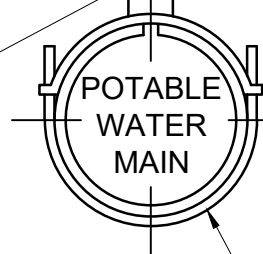
DOUBLE LID MANHOLE COVER & FRAME
MARKED "WATER ARV" U.S. FOUNDRY 690 AH-M

2 MIN. 4 MAX. BRICK COURSES
PLASTERED INSIDE & OUTSIDE
WITH TYPE II PORTLAND
CEMENT

VALVE BOX

BALL VALVE

4" THREADED
BRASS NIPPLE



PAVEMENT

SLOPE

8"

6"

DOUBLE STRAP
SADDLE

UNION

4'-0" Ø

CORP.
STOP

GROUT

ARV

6" MIN

VARIES

12" MIN.

7"x7"x5" CONCRETE
COLLAR WITH WIRE MESH
REINF. IN UNPAVED AREAS

GRASS

INFLOW
PREVENTER
S.S. BRACKET

SLOPED FILLET

6"x3"x6" HIGH CONC. PED.
W/3/4" STAINLESS STEEL
STRAP

9" DIA. HOLE

1 YD. 3/4" WASHED ROCK

FILTER CLOTH

NOTES:

1. MANHOLE SHALL BE PRECAST AND DESIGNED BY FABRICATOR TO COMPLY WITH FDOT INDEX 200.
2. ALL VALVES, PIPING AND FITTINGS SHALL BE LEAD-FREE BRASS OR BRONZE.



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ENGINEERING DETAILS

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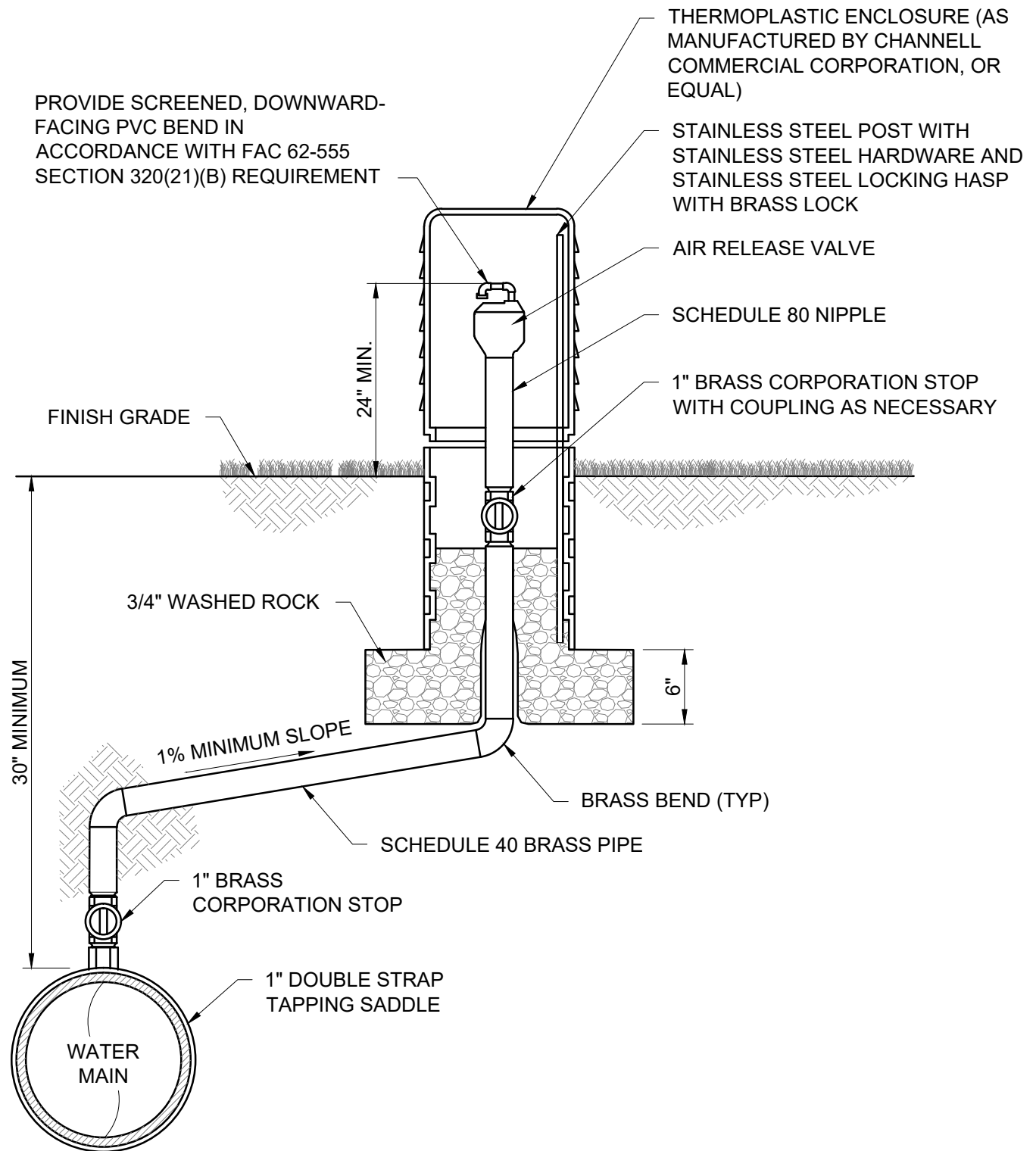
AUTOMATIC AIR RELEASE VALVE
FOR AREAS THAT FLOOD
TYPE 2

CAM 21-0345

Exhibit 3

DETAIL NO.
WATR
007

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2016/09/24 301



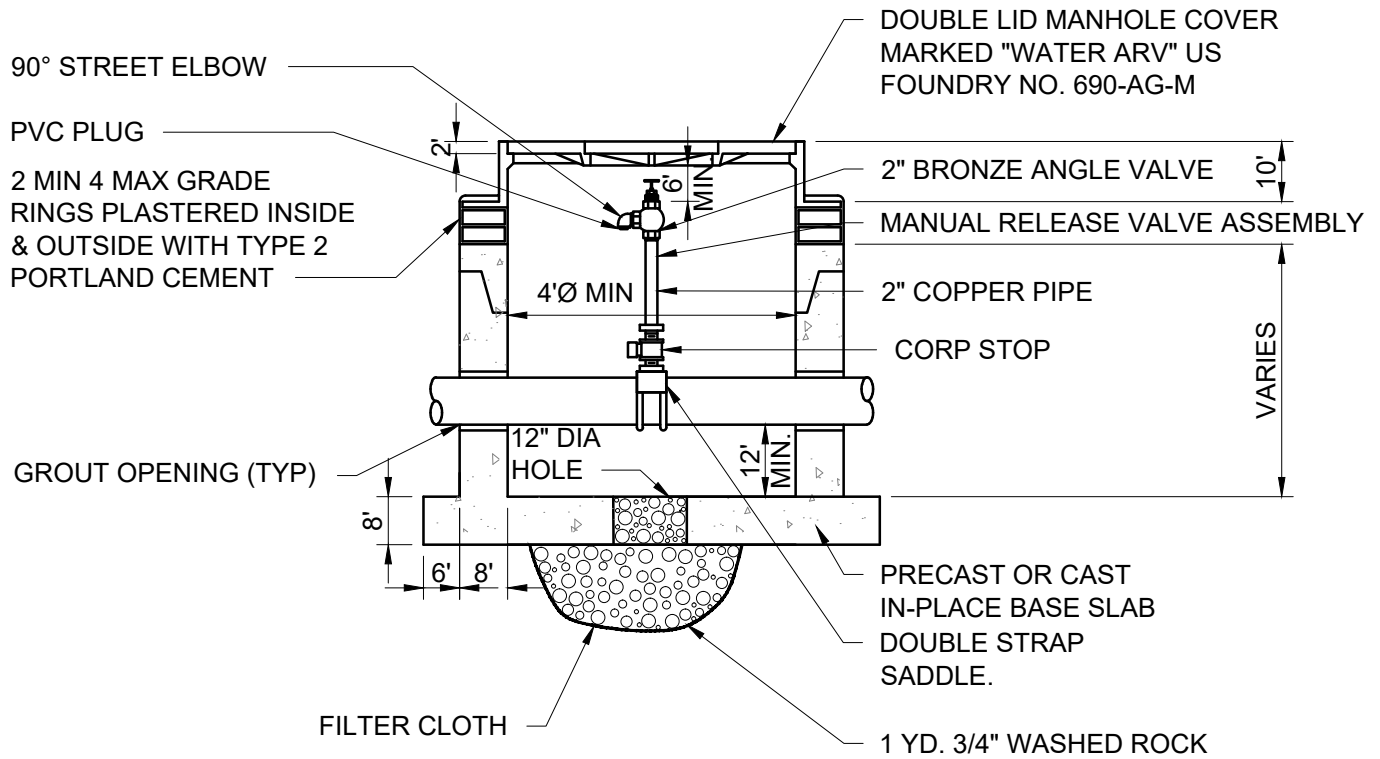
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

AUTOMATIC AIR RELEASE VALVE
FOR AREAS THAT FLOOD
TYPE 3

CAM 21-0345
Exhibit 3

DETAIL NO.
WATR
008
REVISED:
2016/09/21



NOTES:

1. MANHOLE SHALL BE PRECAST AND DESIGNED BY FABRICATOR TO COMPLY WITH FDOT INDEX 200.
2. DUCTILE IRON PIPE IS REQUIRED WITHIN THE MANHOLE. NO PIPE JOINTS WITHIN THE MANHOLE.



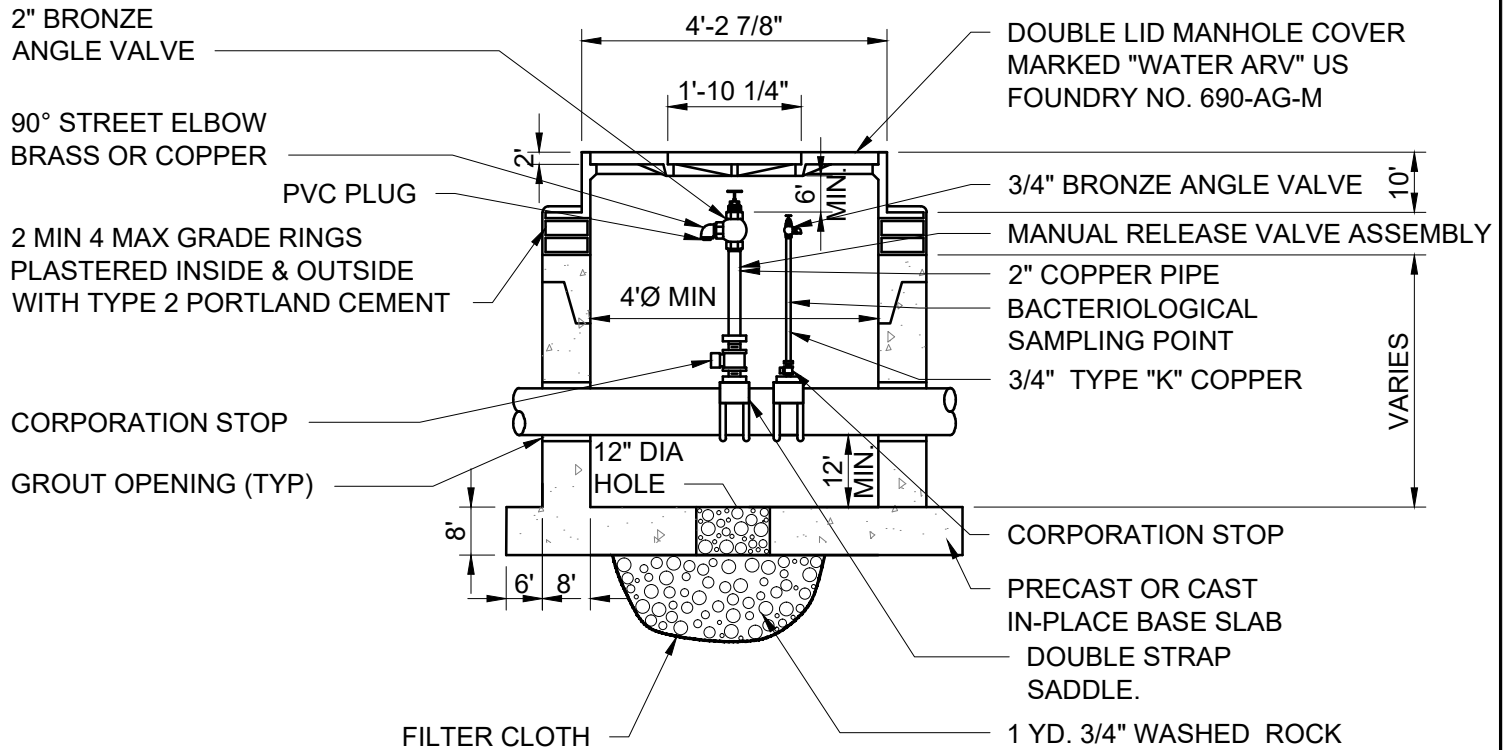
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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MANUAL AIR RELEASE VALVE
FOR AREAS THAT FLOOD
TYPE 1

CAM 21-0345
Exhibit 3

DETAIL NO.
WATR
009
REVISED:
2016/09/24



NOTES:

1. MANHOLE SHALL BE PRECAST AND DESIGNED BY FABRICATOR TO COMPLY WITH FDOT INDEX 200.
2. DUCTILE IRON PIPE IS REQUIRED WITHIN THE MANHOLE. NO PIPE JOINTS WITHIN THE MANHOLE.
3. AFTER COMPLETION OF THE BACTERIOLOGICAL TESTING, REMOVE THE SAMPLE PIPING AND INSTALL PLUG ON THE CORPORATION STOP.



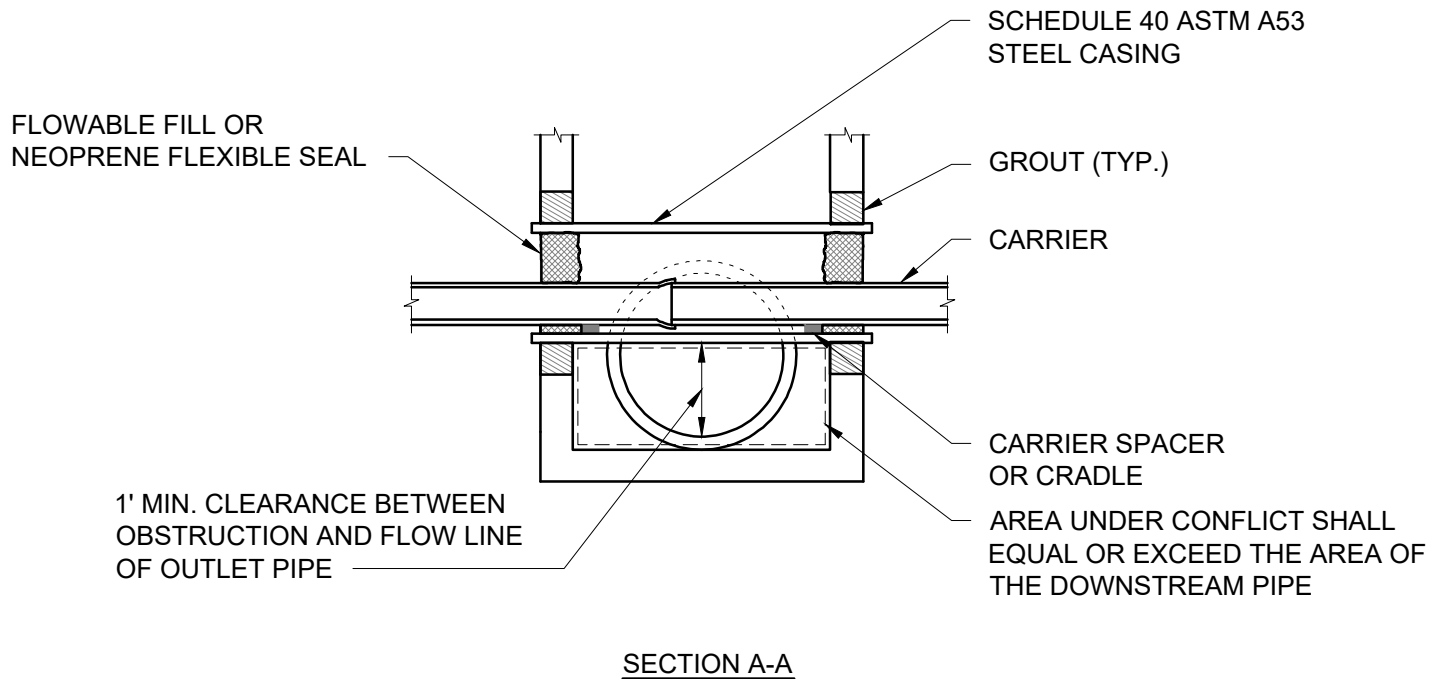
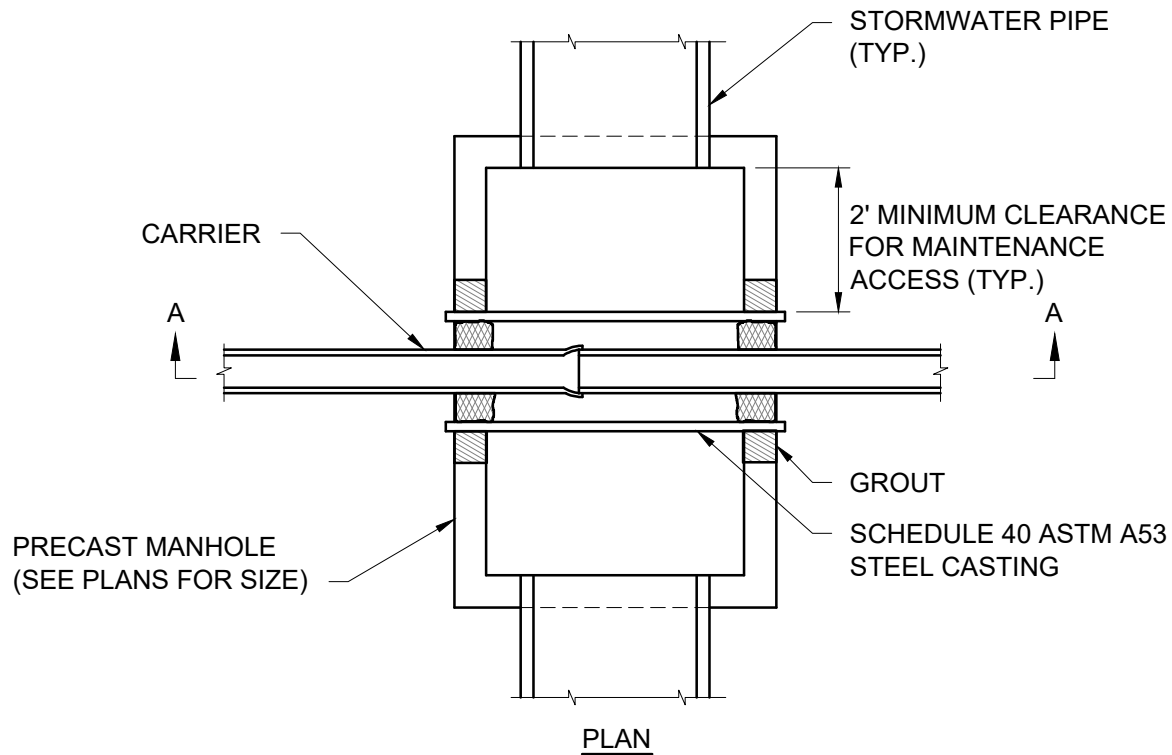
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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MANUAL AIR RELEASE VALVE
FOR AREAS THAT FLOOD
TYPE 2

CAM 21-0345
Exhibit 3

DETAIL NO.
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PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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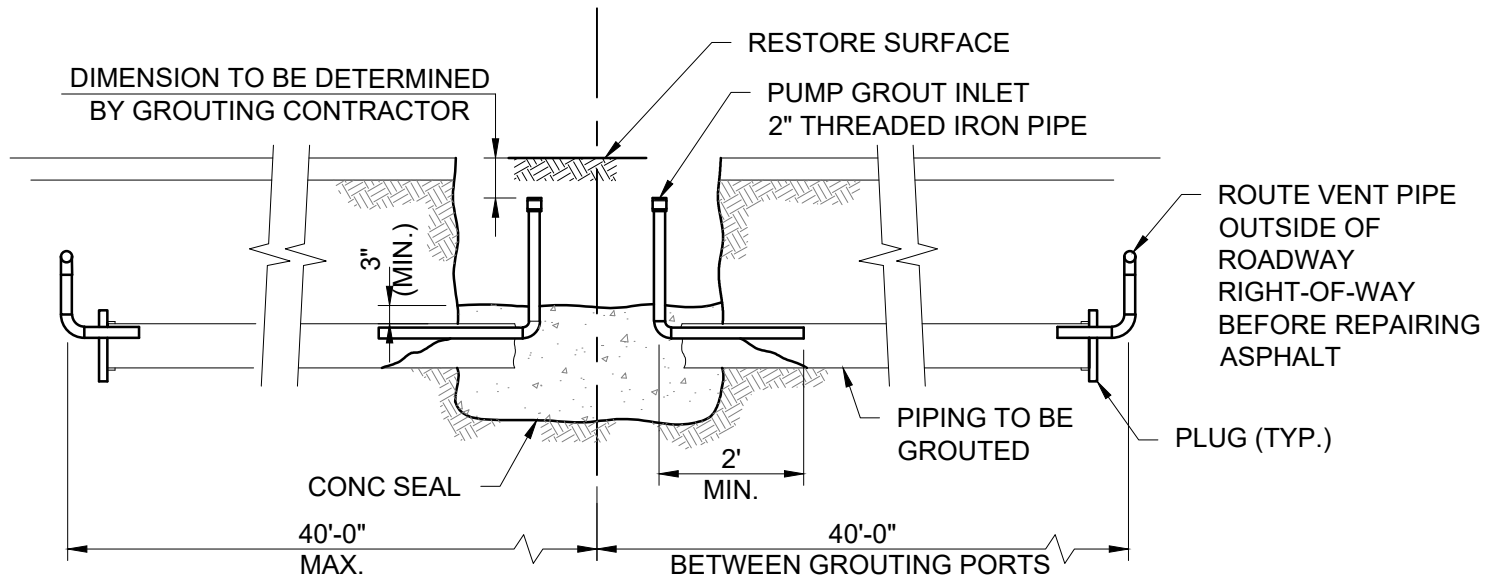
CONFLICT MANHOLE

CAM 21-0345

Exhibit 3

DETAIL NO.
WATR
011

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**NOTE:**

1. PROVIDE PLUGS, CORPORATION STOPS AND PIPING AS REQUIRED TO REMOVE AIR FROM THE ABANDONED PIPELINES WHILE GROUTING.



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PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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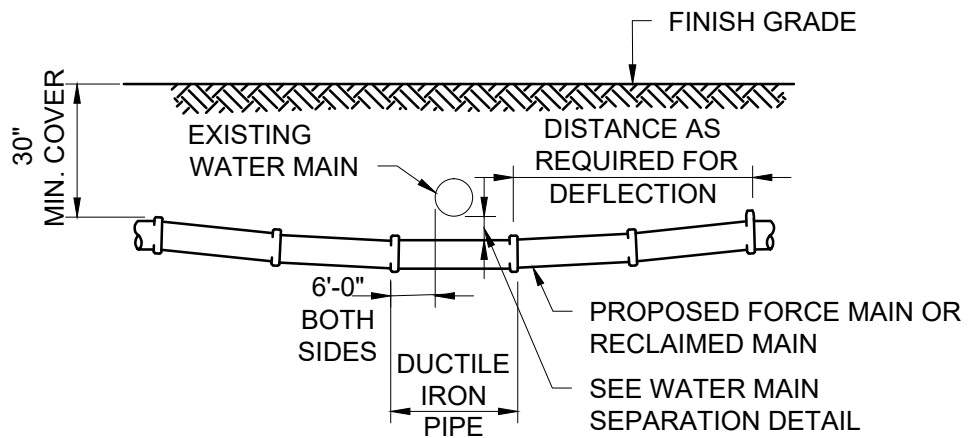
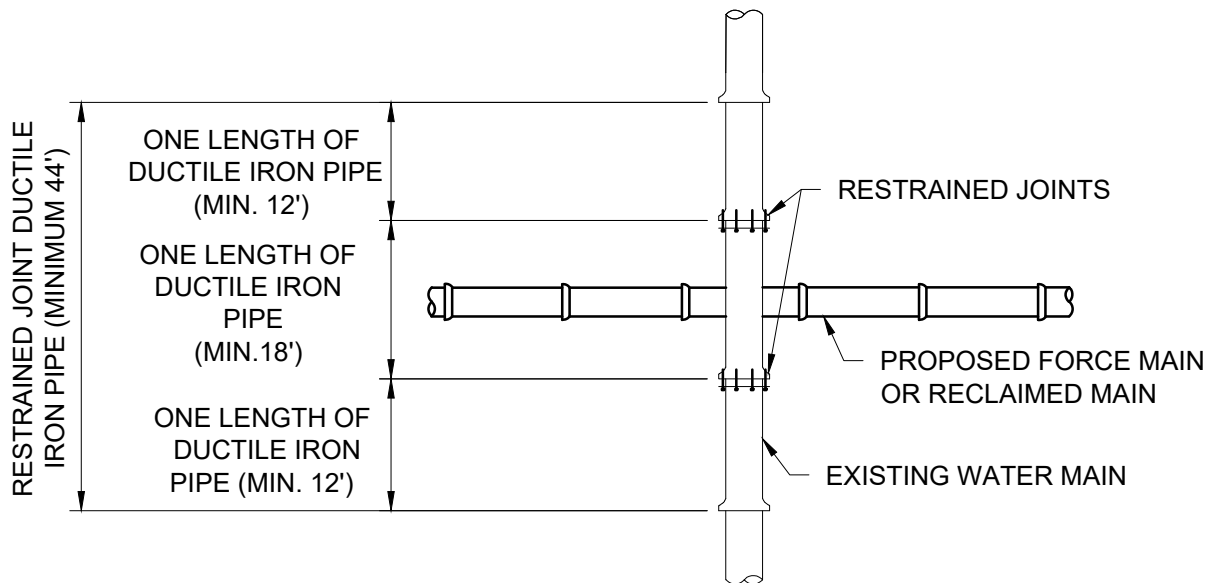
PIPE GROUTING

DETAIL NO.
**WATR
012**

CAM 21-0345

Exhibit 3

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SECTIONPLANNOTE:

1. JOINTS SHALL NOT BE DEFLECTED MORE THAN 50% OF MANUFACTURER'S RECOMMENDED DEFLECTION.



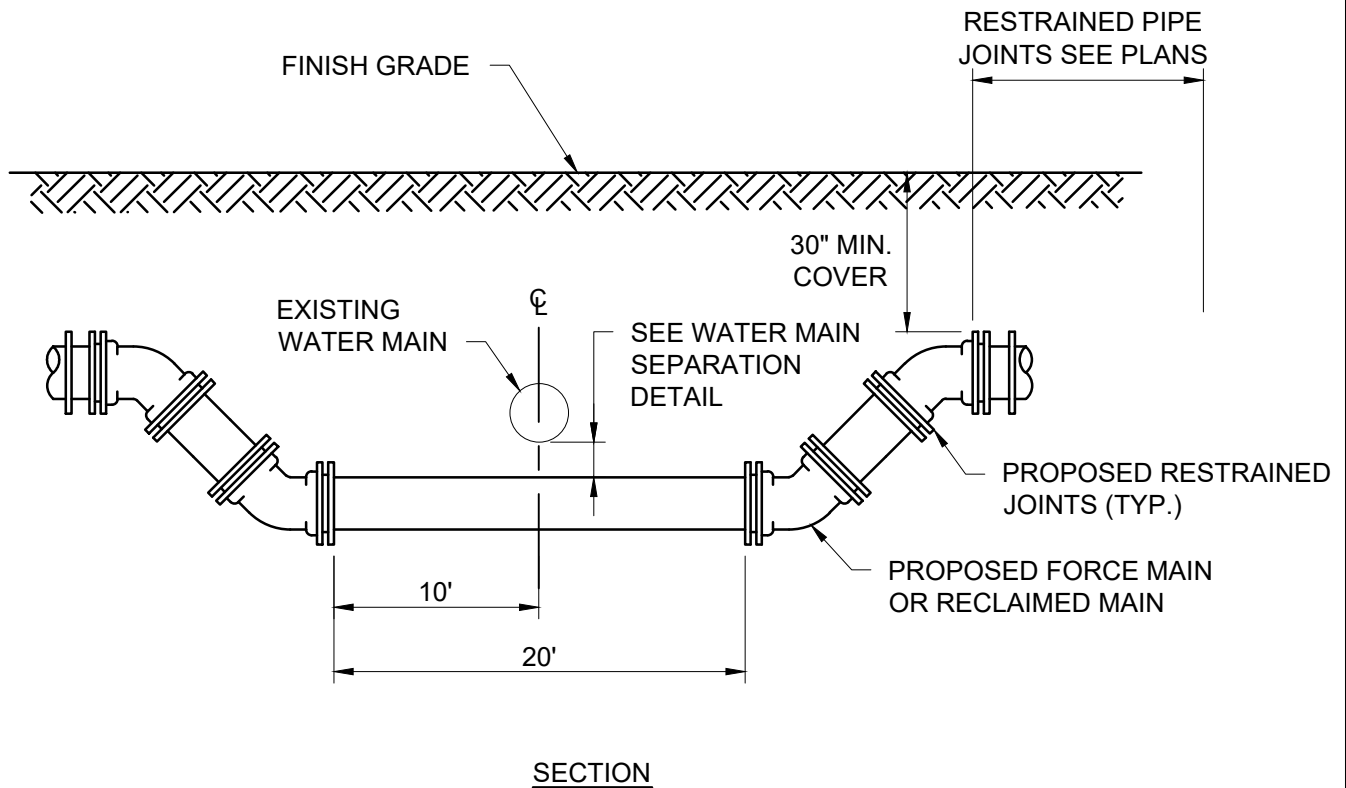
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM

UTILITY CROSSING
DEFLECTION TYPE

CAM 21-0345
Exhibit 3

DETAIL NO.
WATR
013
REVISED:
2016/09/24

**NOTE:**

1. WHEREVER POSSIBLE, DEFLECTION OF THE PIPE (PER THE DETAIL TITLED "UTILITY CROSSING - DEFLECTION TYPE") SHALL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS DETAIL SHALL BE USED ONLY WHEN APPROVED BY ENGINEER.



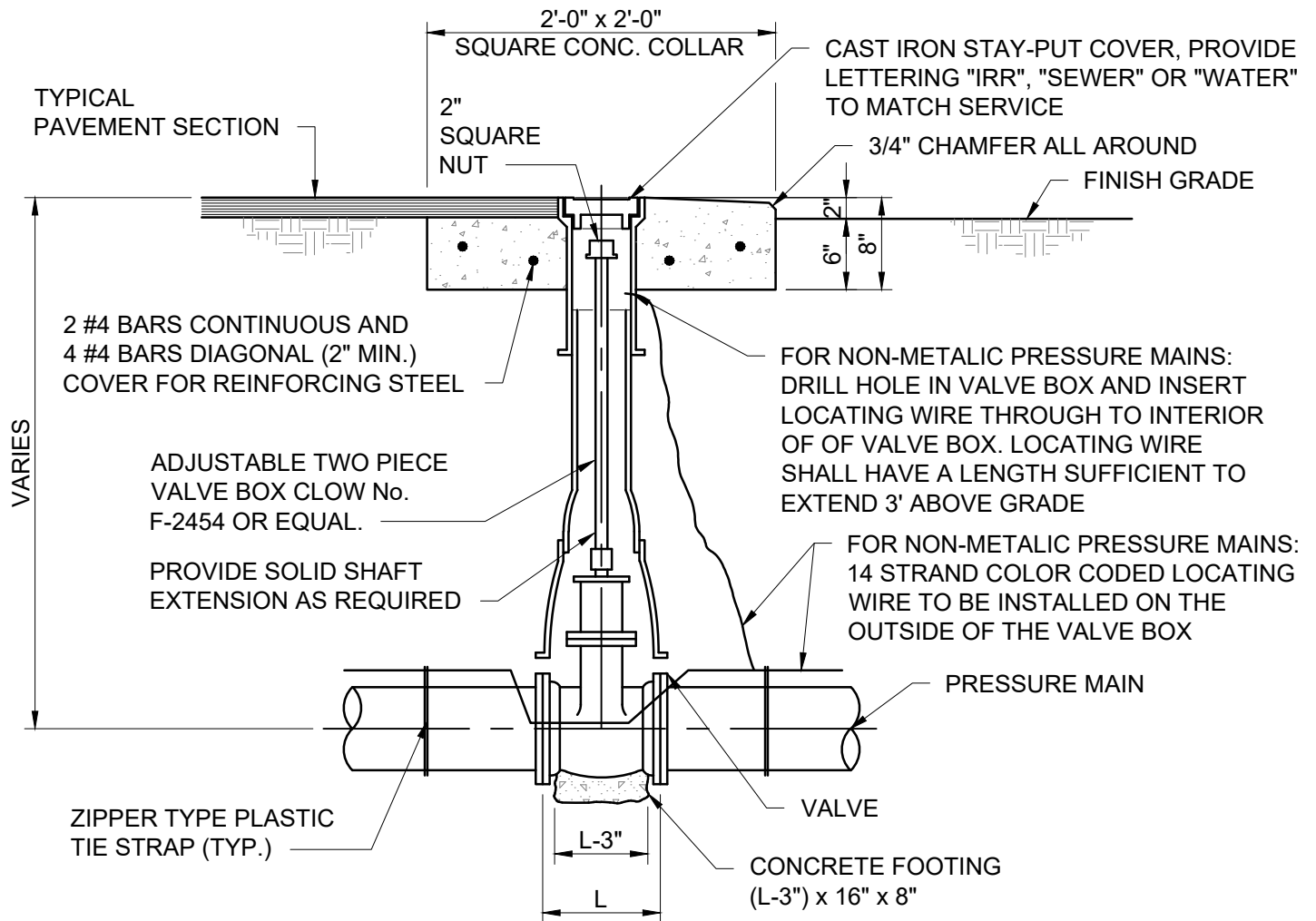
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

UTILITY CROSSING
FITTING TYPE

CAM 21-0345
Exhibit 3

DETAIL NO.
**WATR
014**
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

VALVE BOX

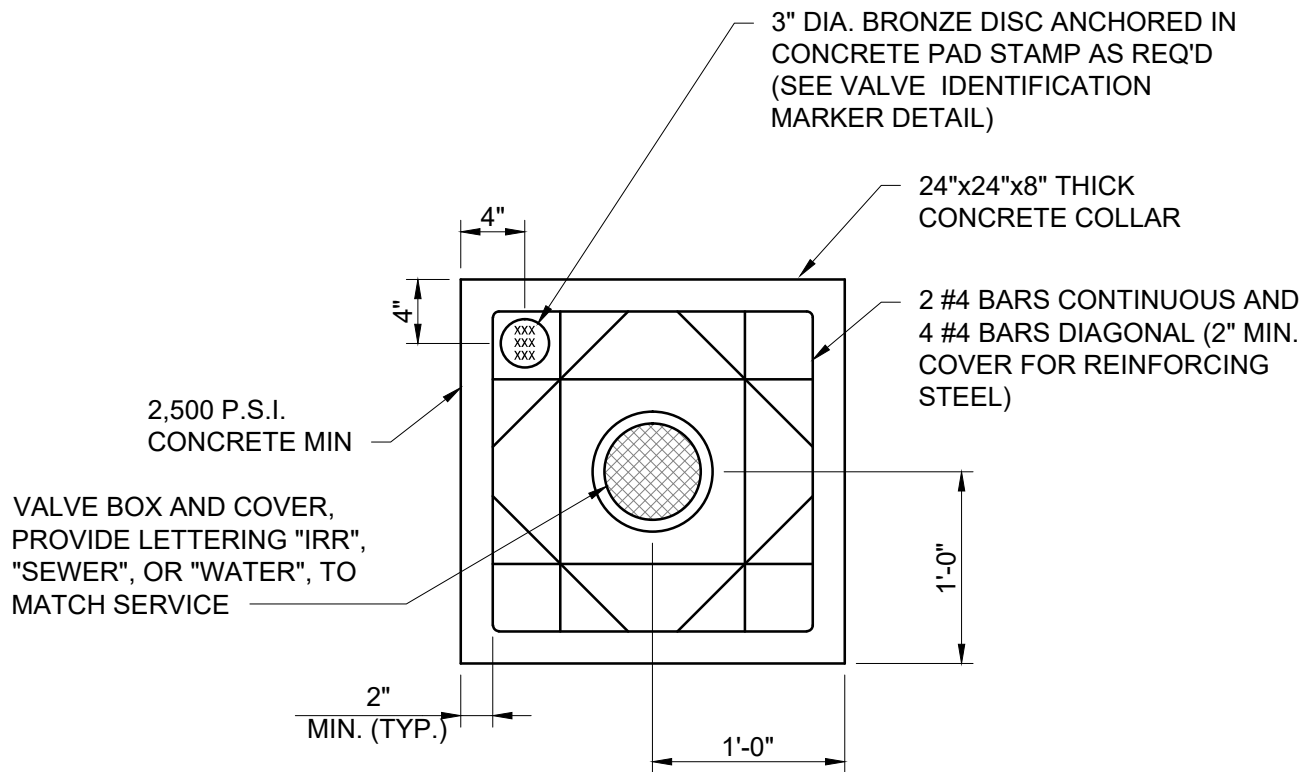
CAM 21-0345

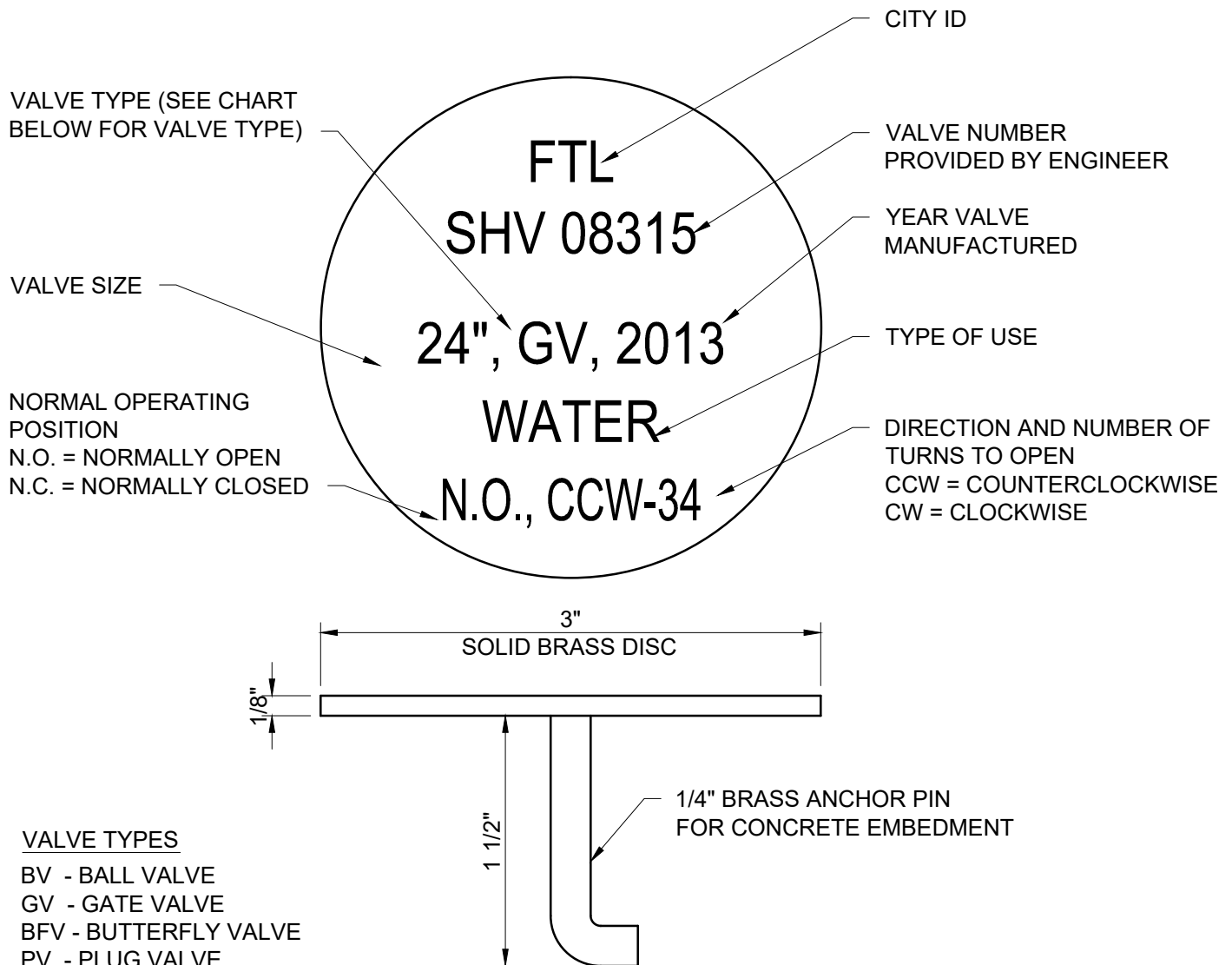
Exhibit 3

DETAIL NO.
WATR
015

REVISION:
2016/09/24

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301



**NOTES:**

1. VALVE INFORMATION TO BE ENGRAVED INTO TOP SURFACE WITH 1/4" CAPITAL LETTERS.
2. ENTIRE MARKER TO BE COATED WITH CLEAR EPOXY TO PREVENT TARNISHING.
3. MARKERS SHALL BE MANUFACTURED BY WAGER COMPANY OF FLORIDA.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

VALVE ID MARKER

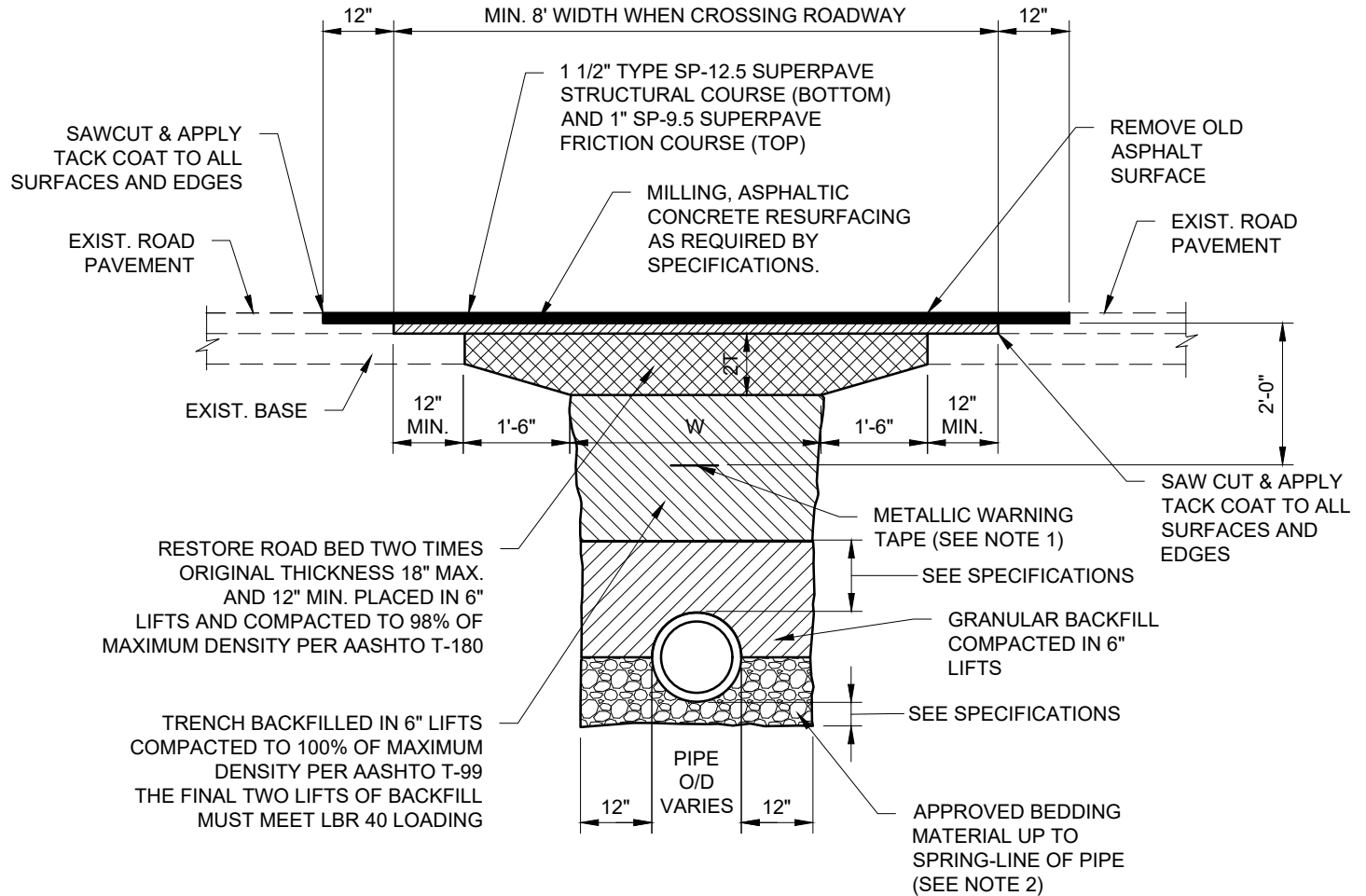
CAM 21-0345

Exhibit 3

DETAIL NO.
WATR
017

REVISED:
2016/09/24

2/22/2021 9:55 AM

**NOTES:**

1. METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE ABOVE MAIN. (SEE SPECIFICATION 2320 SECTION 3.6 FOR MARKING TYPE)
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.

T=6" PARKING
 T=8" RESIDENTIAL STREETS
 T=10" MAJOR STREETS (4 LANE)
 T=12" MAJOR STREETS (6 LANE)

2T=18" MAX. 12" MIN.



CITY OF FORT LAUDERDALE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DETAILS

TYPICAL TRENCH AND PAVEMENT
 RESTORATION FOR TRANSVERSE PIPE CROSSING

SHEET 1

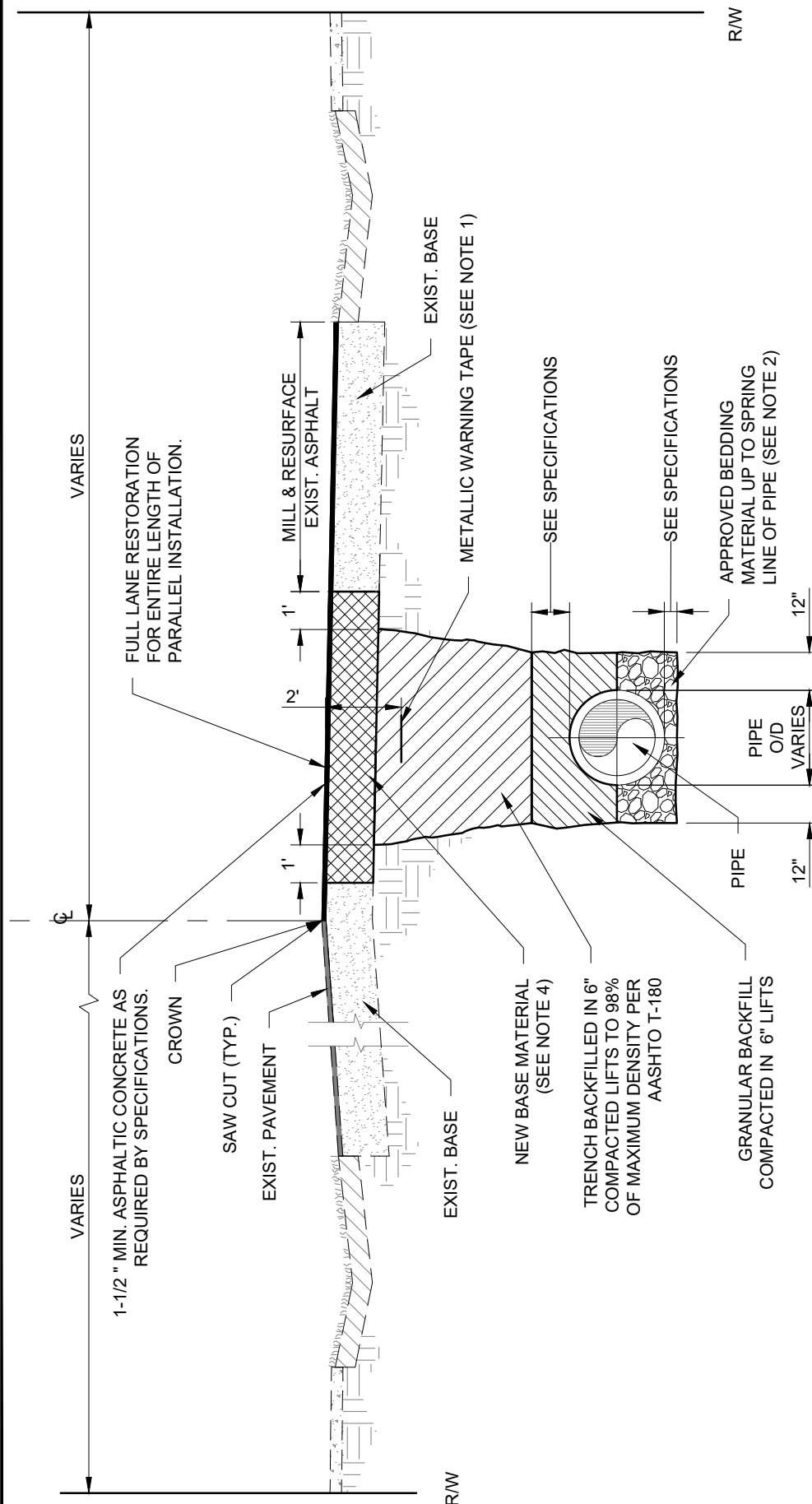
CAM 21-0345

Exhibit 3

DETAIL NO.
 ROAD
 001

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NOTES:

1. 2" WIDE METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE.
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.
4. 12" MIN. LIMEROCK BASE PLACED IN 6" LAYERS AND COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

TYPICAL ROAD SECTION, TYPICAL TRENCH AND TRENCH RESTORATION FOR PARALLEL PIPE TRENCH

SHEET 2

CAM 21-0345

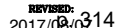
Exhibit 3

DETAIL NO.
ROAD
002

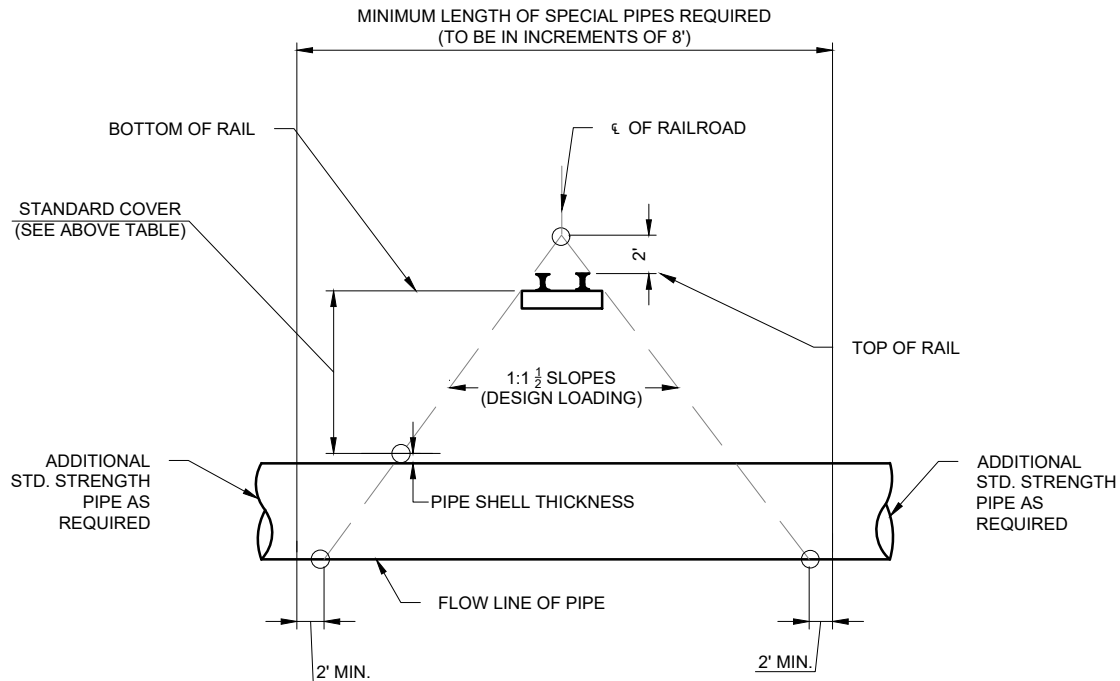
REVISION
2017/08/13



1. 2" WIDE METALLIC WARNING TAPES SHALL BE INSTALLED 24" BELOW FINISH GRADE. DOES NOT APPLY TO STORM DRAINAGE PIPE INSTALLATION.
2. UNLESS OTHERWISE SPECIFIED SELECTED MATERIAL SHALL BE FREE OF STONES LARGER THAN 3/8" DIA.
3. REPLACE ALL LANE MARKINGS AND REFLECTIVE MARKERS.
4. 12" MIN. LIMEROCK BASE PLACED IN 6" LAYERS AND COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180
5. BAHIA SOD -OR- ST. AUGUSTINE "FLORITAM" SOD IN PREVIOUSLY SODDED AREAS -OR- REPLACE EXISTING IMPROVED SURFACE (e OR ASPHALT PAVING TO MATCH EXISTING -IF ASPHALT. MINIMUM 1" ASPHALT OVER MINIMUM 6" COMPACTED LIMEROCK)



| RAILROAD COMPANY | CLEARANCE BELOW BOTTOM OF RAIL (FEET)* | STRENGTH |
|---|---|------------------|
| | | ASTM (C76) CLASS |
| CSX TRANSPORTATION | 5.5 | V |
| FLORIDA EAST COAST (FEC) RAILROAD COMPANY | 5.5 | VI |
| SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY (TRI-COUNTY COMMUTER RAIL) | 5.5 | V |



METHOD FOR DETERMINING THE LENGTH OF SPECIAL PIPE REQUIRED UNDER RAILROADS



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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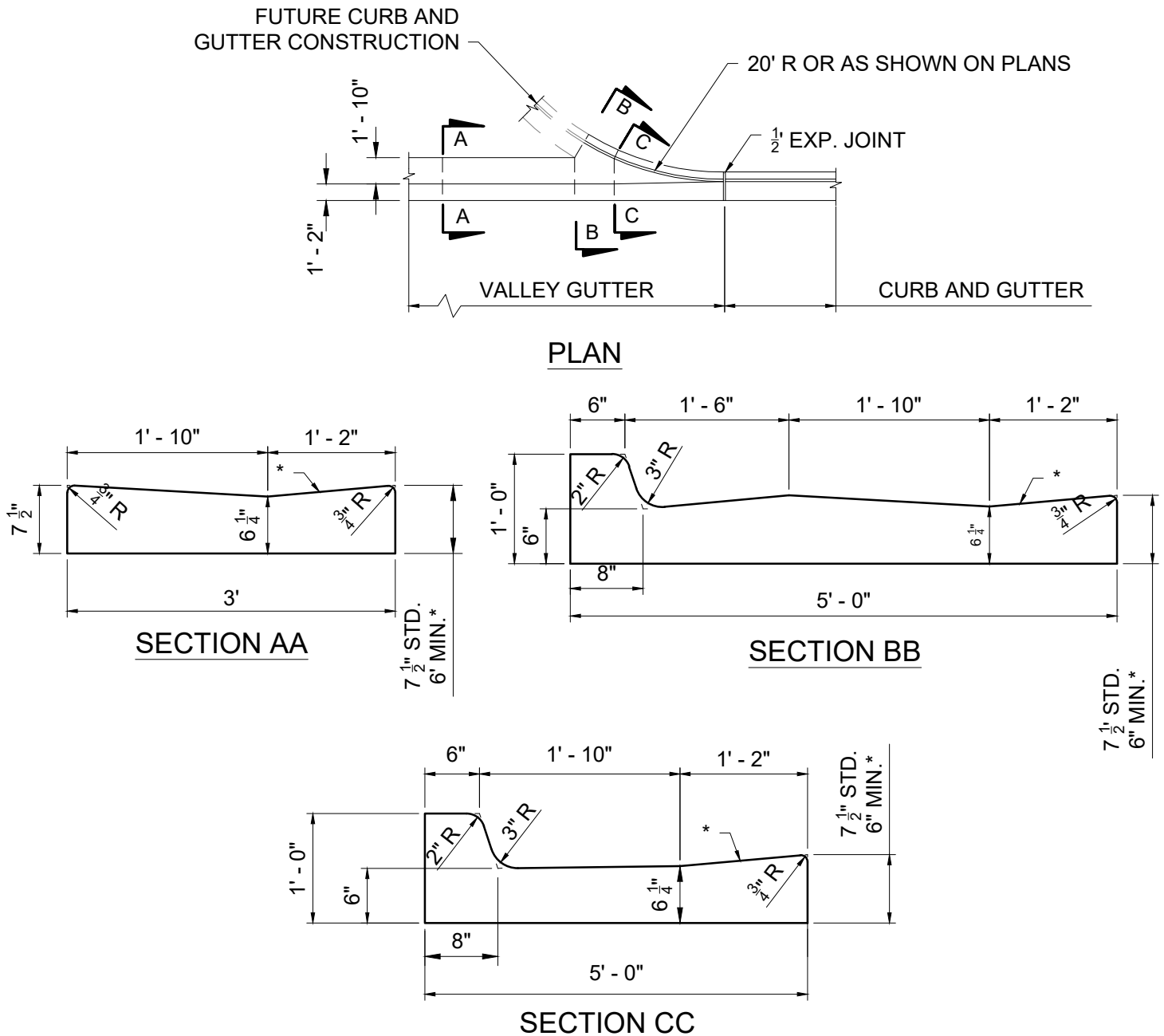
UNDER RAILROAD PIPE REQUIREMENTS

CAM 21-0345

Exhibit 3

DETAIL NO.
ROAD
004

REVISED:
2017/08/14



NOTES:

1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.
2. ROTATE ENTIRE SECTION SO THAT GUTTER CROSS SLOPE MATCHES SLOPE OF ADJACENT CIRCULATING ROADWAY PAVEMENT.
3. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT. FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE SHEET 2. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE SHEET 2.
4. 4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL



CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS

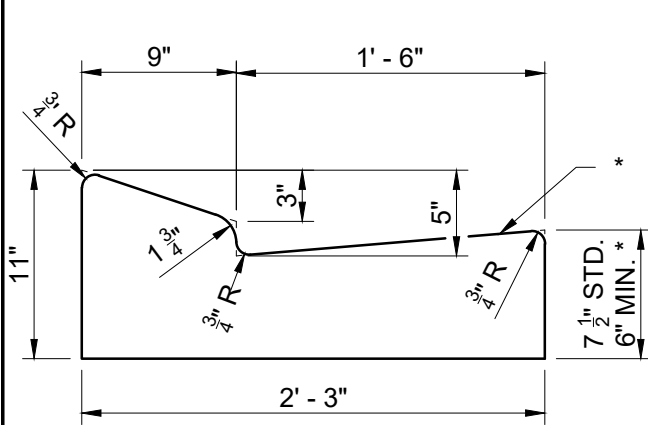
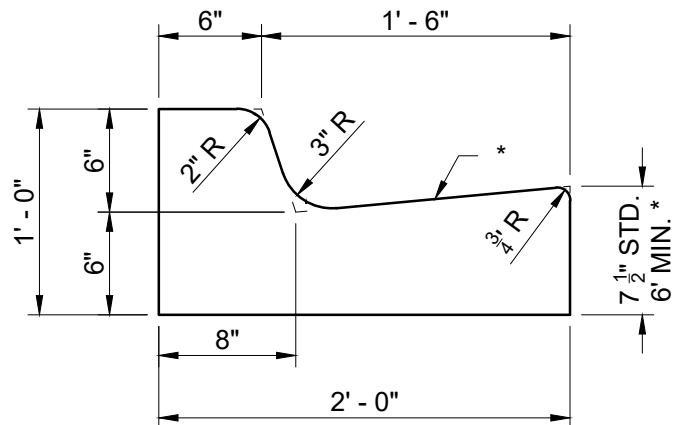
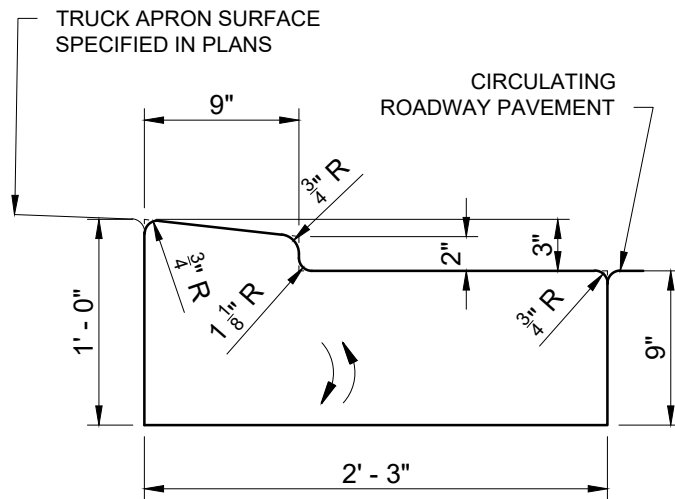
CONCRETE CURB AND GUTTER
VALLEY GUTTER
SHEET 1

DETAIL NO.
ROAD
005

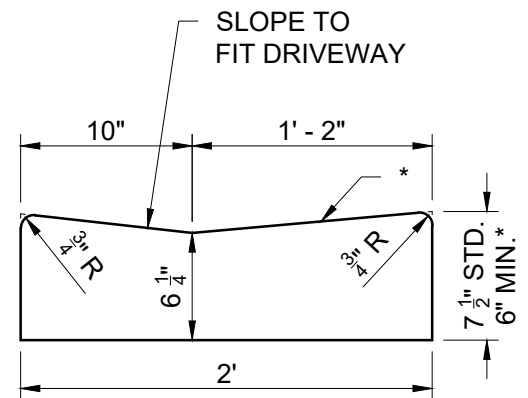
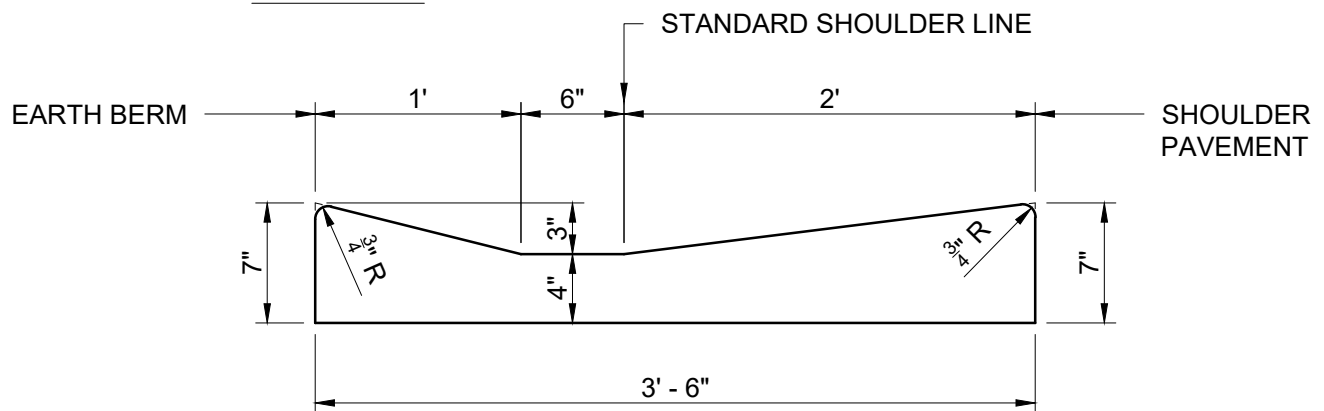
CAM 21-0345

Exhibit 3

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**TYPE E****TYPE F**

TRAFFIC BEARING SECTION FOR USE IN
ROUNDBOUT CENTRAL ISLAND CONSTRUCTION

TYPE RA**DROP CURB****SHOULDER GUTTER****NOTE:**

4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

CONCRETE CURB AND GUTTER
TYPE E, TYPE F, TYPE RA, DROP CURB, AND SHOULDER GUTTER

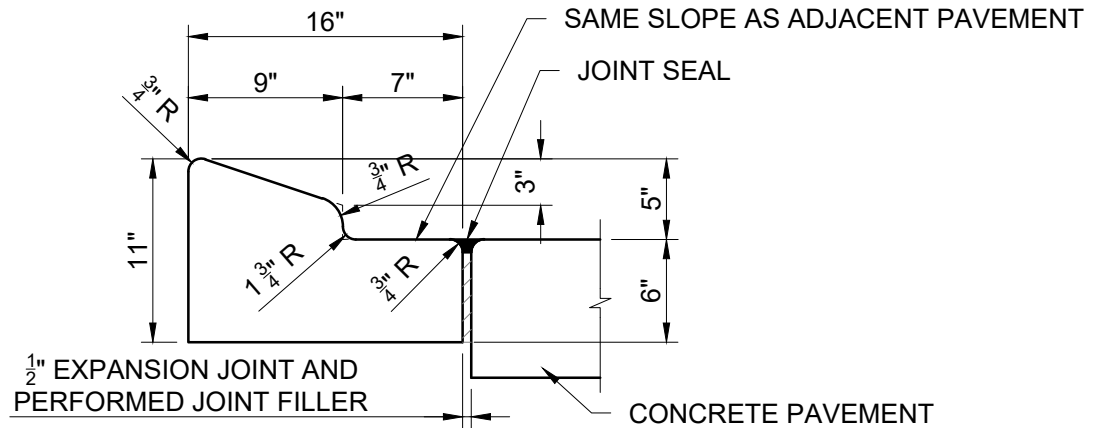
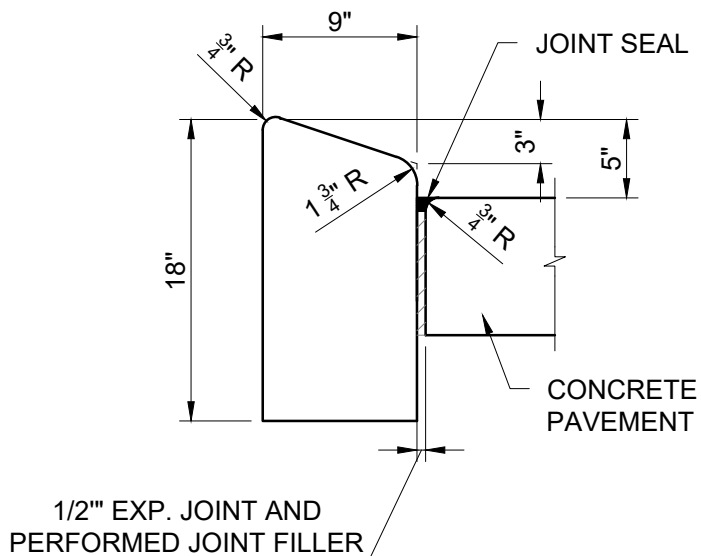
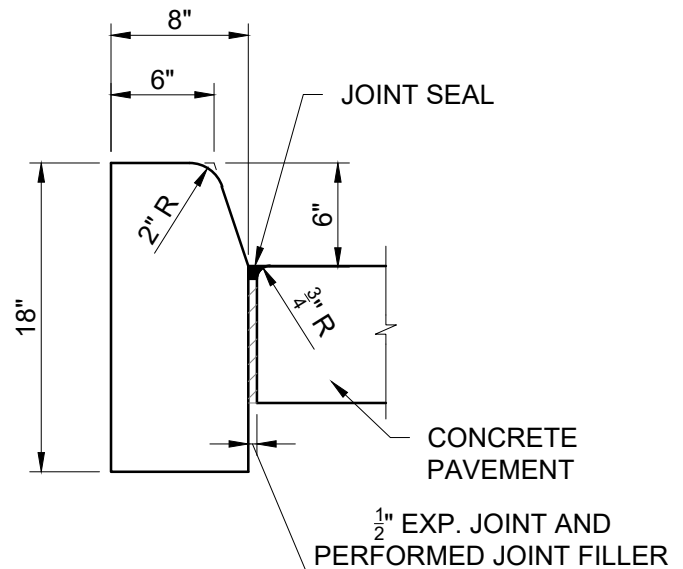
SHEET 2

DETAIL NO.
ROAD
006

CAM 21-0345

Exhibit 3

REVISION: 2017/08/17

TYPE ATYPE BTYPE DNOTES:

1. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.
2. 4" CURB PAD (LBR 100, 98% COMPACTION T-180) TO BE PLACED UNDER CURB AND GUTTER, AND EXTEND 6" BEYOND OUTSIDE EDGE OF CURB. SEE SPECIFICATIONS FOR MATERIAL



CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS

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CONCRETE CURB AND GUTTER
TYPE A, TYPE B, AND TYPE D

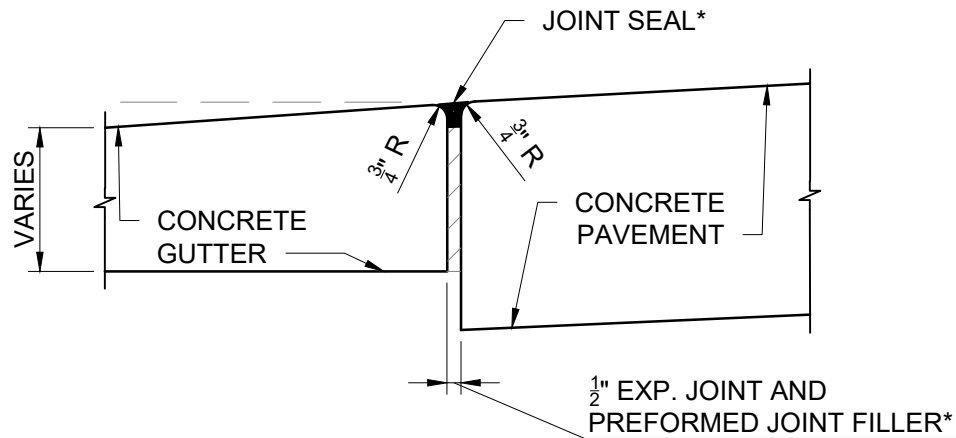
SHEET 3

DETAIL NO.
ROAD
007

CAM 21-0345

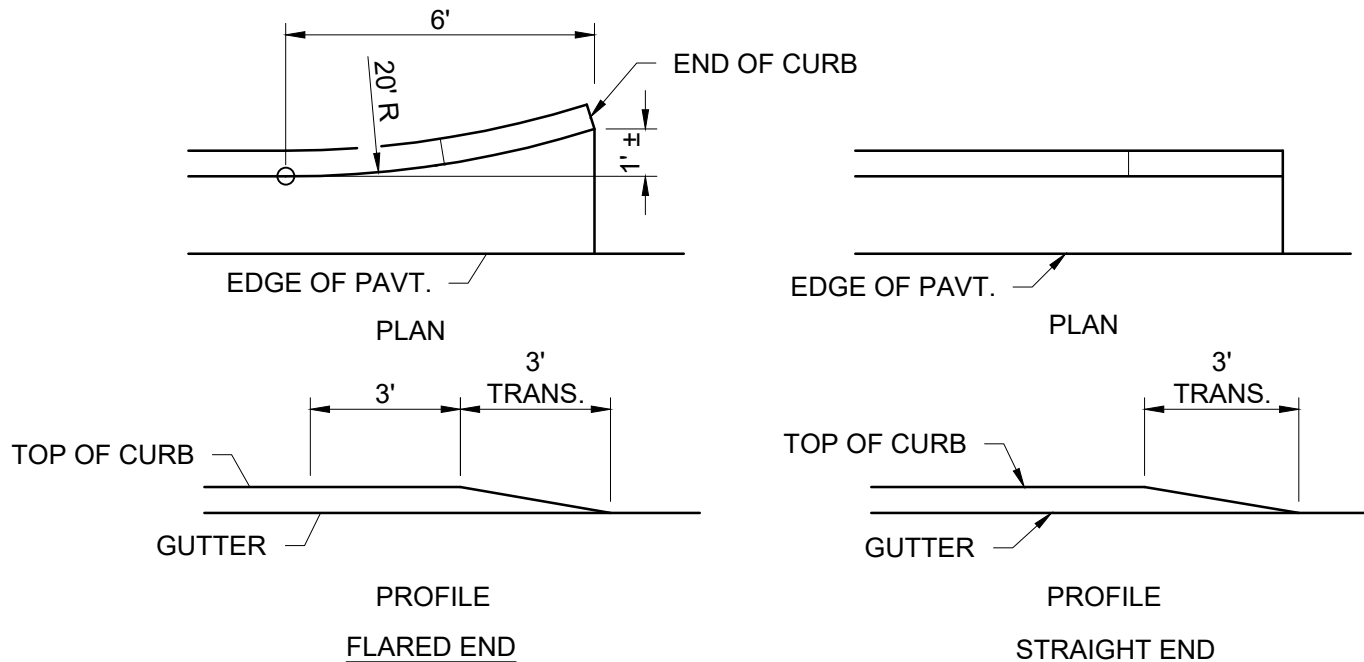
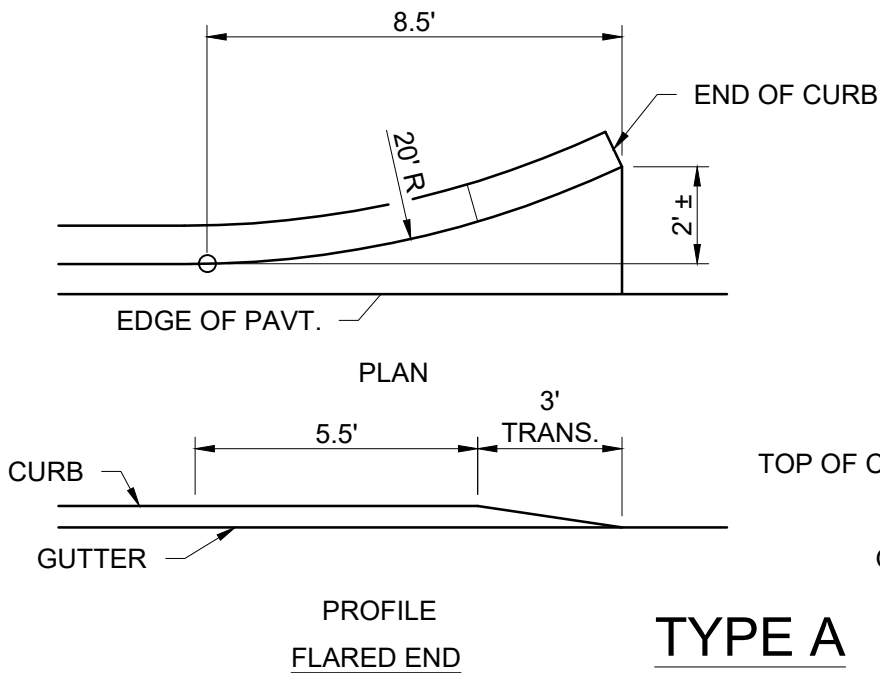
Exhibit 3

REVISION: 2017/08/18



* APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.



**NOTES:**

1. FOR CURB, GUTTER AND CURB & GUTTER PROVIDE $\frac{1}{8}$ " - $\frac{1}{4}$ " CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3'.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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CONCRETE CURB AND GUTTER
CURB AND GUTTER ENDINGS

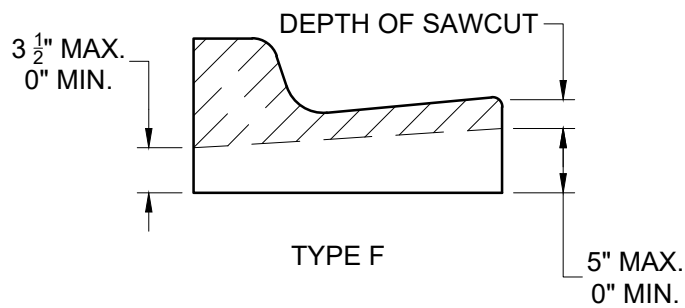
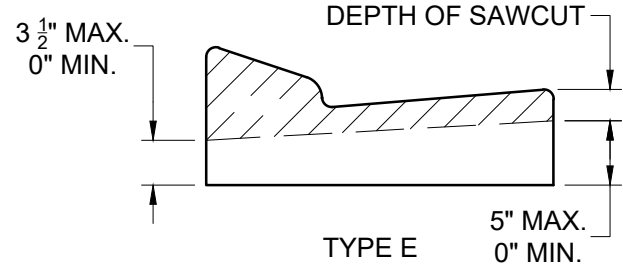
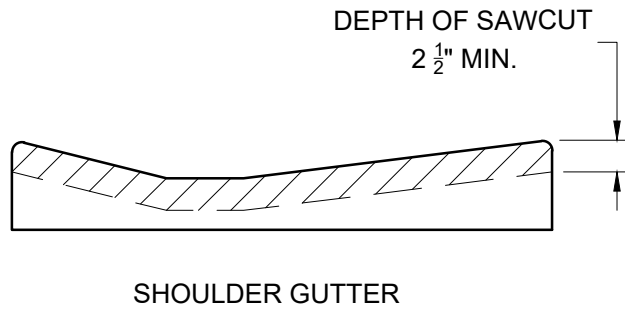
SHEET 5

CAM 21-0345

Exhibit 3

DETAIL NO.
ROAD
009

REVISED:
2017/08/13



SAWCUTS SHOULD BE AVOIDED WITHIN VALLEY GUTTER AND WITHIN CURB AND GUTTER ENDINGS.

NOTES:

1. FOR CURB, GUTTER AND CURB & GUTTER PROVIDE 1/8" - 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3'.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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CONCRETE CURB AND GUTTER
CONTRACTION JOINT IN CURB

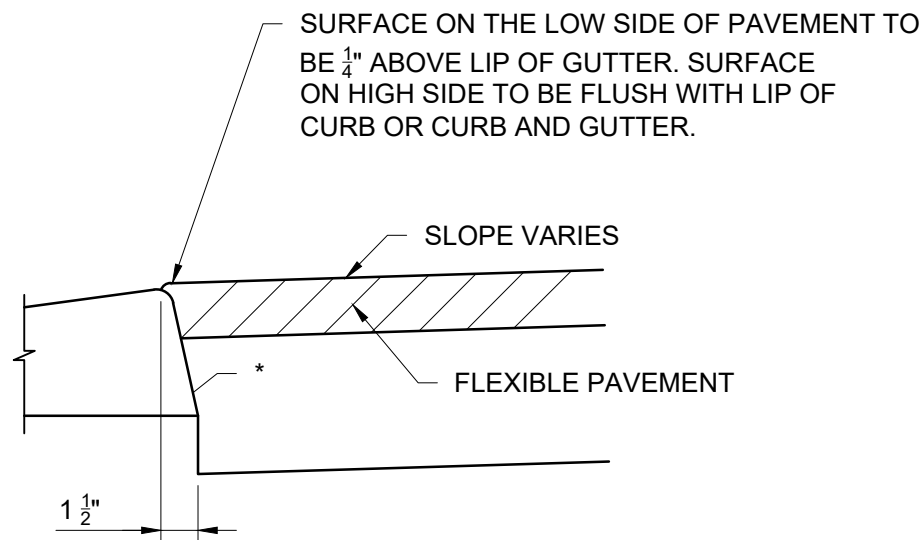
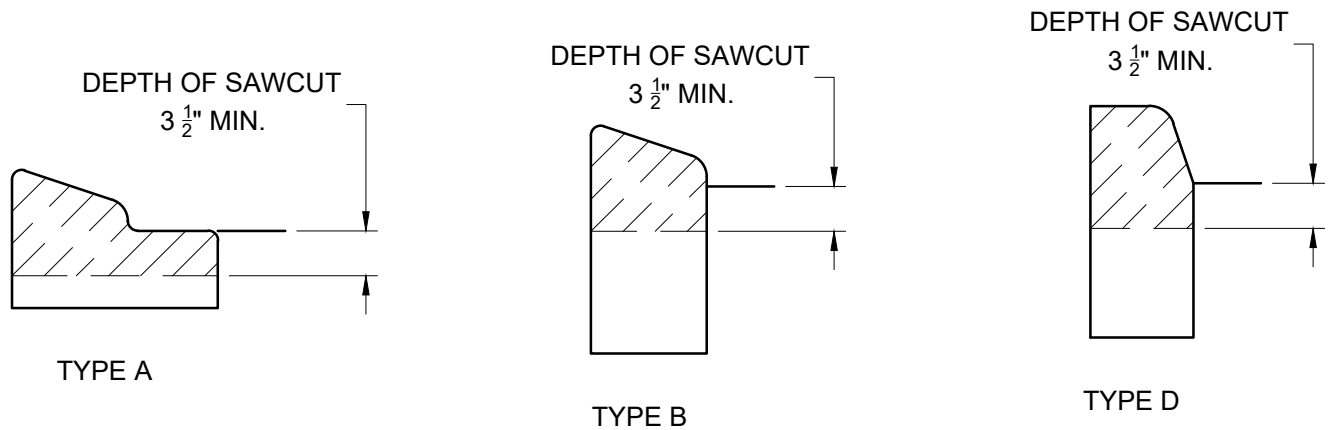
SHEET 6

DETAIL NO.
ROAD
010

CAM 21-0345

Exhibit 3

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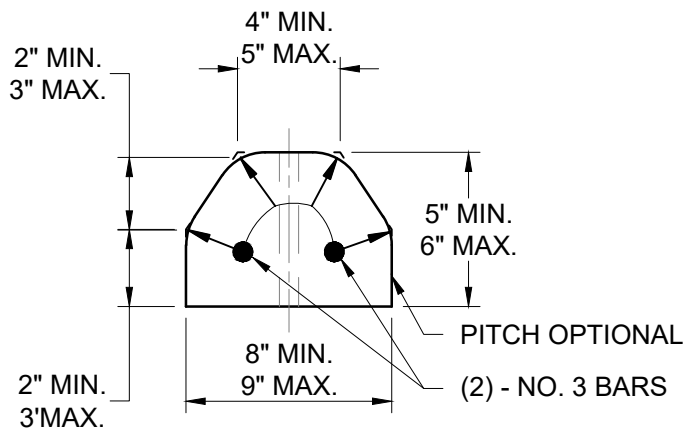
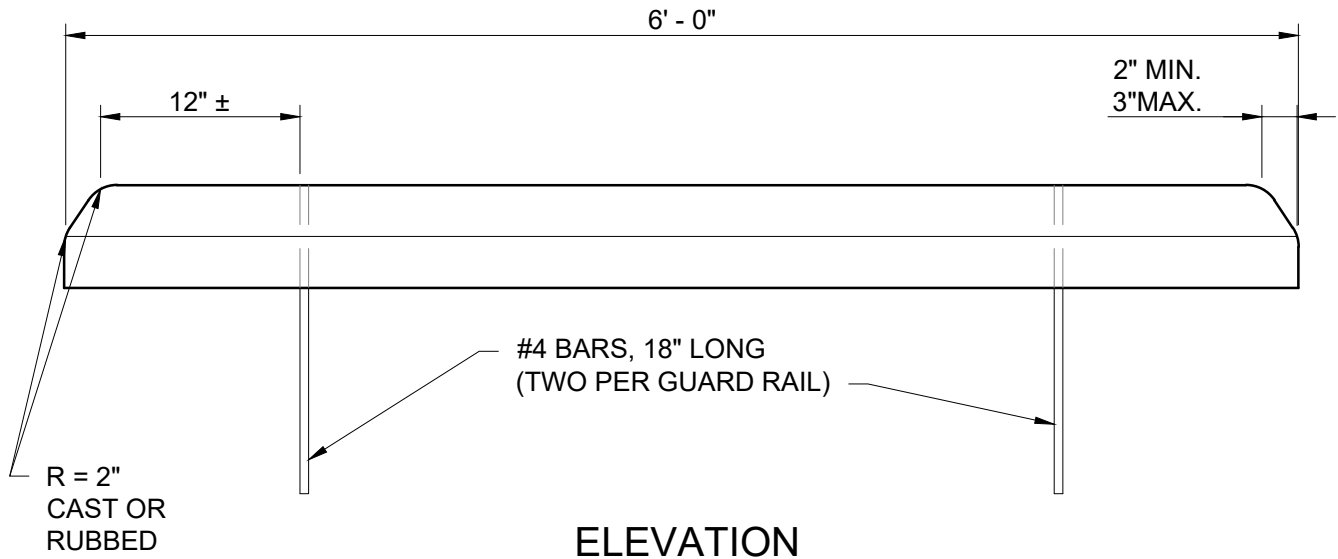


* APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.
APPLIES TO SHOULDER GUTTER ONLY WHERE ADJOINING TRAFFIC LANES.

NOTES:

1. FOR CURB, GUTTER AND CURB & GUTTER PROVIDE $\frac{1}{8}$ " - $\frac{1}{4}$ " CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3'.





CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

CONCRETE CURB AND GUTTER
CONCRETE BUMPER GUARD

SHEET 9

DETAIL NO.
ROAD
012

CAM 21-0345

Exhibit 3

REVISED: 2017/08/14

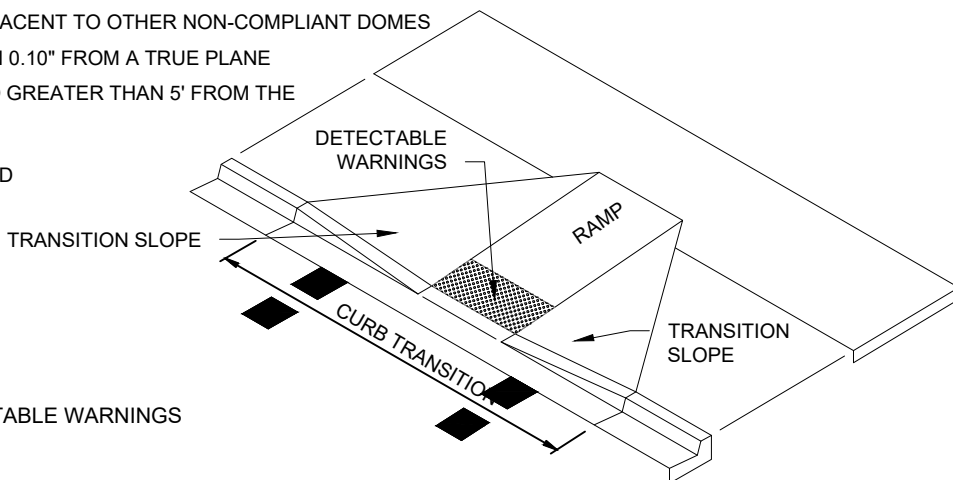
GENERAL NOTES

1. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNOBSTRUCTED PEDESTRIAN CIRCULATION PATH TO PEDESTRIAN AREAS, ELEMENTS AND FACILITIES WITHIN THE RIGHT OF WAY AND TO ACCESSIBLE PEDESTRIAN ROUTES ON ADJACENT SITES. CURBED FACILITIES WITH SIDEWALKS AND THOSE WITHOUT SIDEWALKS ARE TO HAVE CURB RAMPS CONSTRUCTED FOR ALL INTERSECTIONS AND TURNOUTS WITH CURBED RETURNS. TO ACCOMMODATE CURB RAMPS, PARTIAL CURB RETURNS ARE TO EXTEND TO THE LIMITS PRESCRIBED IN INDEX NO. 515. RAMPS CONSTRUCTED AT LOCATIONS WITHOUT SIDEWALKS ARE TO HAVE A LANDING CONSTRUCTED AT THE TOP OF EACH RAMP; SEE LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS.
2. WHEN ALTERING EXISTING PEDESTRIAN FACILITIES, WHERE EXISTING RESTRICTED CONDITIONS PRECLUDE THE ACCOMMODATION OF A RAMP SLOPE OF 1:12, A RAMP SLOPE BETWEEN 1:12 AND 1:10 IS PERMITTED FOR A RISE OF 6" MAXIMUM. WHERE COMPLIANCE WITH THE REQUIREMENTS FOR CROSS SLOPE CANNOT BE FULLY MET, THE MINIMUM FEASIBLE CROSS SLOPE SHALL BE PROVIDED. RAMP SLOPES ARE NOT REQUIRED TO EXCEED 15' IN LENGTH.
3. IF SIDEWALK CURB RAMPS ARE LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN PROVIDE TRANSITION SLOPES TO THE RAMP; OTHERWISE A SIDEWALK CURB MAY BE REQUIRED.
4. ALL SIDEWALKS, RAMPS, AND LANDINGS WITH A CROSS SLOPE OF 0.02 SHOWN IN THIS INDEX ARE 0.02 MAXIMUM. ALL RAMP SLOPES SHOWN IN THIS INDEX AS 1:12 ARE 1:12 MAXIMUM. LANDINGS SHALL HAVE SLOPES LESS THAN OR EQUAL TO 0.02 IN ANY DIRECTION.
5. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMPS SHALL BE PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE DIRECTION OF THE RAMP SLOPE.
6. WHERE A SIDEWALK CURB RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITION OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG. EXISTING SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG. FOR CONCRETE SIDEWALK DETAILS REFER TO INDEX 310.
7. SIDEWALK CURB RAMP ALPHA-IDENTIFICATIONS ARE FOR REFERENCE PURPOSES (PLANS, PERMITS, ETC.). ALPHA-IDENTIFICATIONS CR-I AND CR-J WERE INTENTIONALLY OMITTED.
8. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP AND TO A DEPTH OF 2'. DETECTABLE WARNINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 527. FOR THE LAYOUT OF DETECTABLE WARNINGS, REFER TO THE TYPICAL PLACEMENT OF DETECTABLE WARNINGS DETAILS. DETECTABLE WARNINGS SHALL NOT BE PROVIDED ON TRANSITION SLOPES.
9. WHEN DETECTABLE WARNINGS ARE PLACED ON A SLOPE GREATER THAN 5%, DOMES SHALL BE ALIGNED WITH THE CENTERLINE OF THE RAMP; OTHERWISE DOMES ARE NOT REQUIRED TO BE ALIGNED.
10. DETECTABLE WARNINGS SHALL BE REQUIRED ON SIDEWALKS AND SHARED USE PATHS AT:
 - A. INTERSECTING ROADS
 - B. MEDIAN CROSSINGS GREATER THAN OR EQUAL TO 6' IN WIDTH
 - C. RAILROAD CROSSINGS
 - D. SIGNALIZED DRIVEWAYS
11. DETECTABLE WARNINGS - ACCEPTANCE CRITERIA:
 - A. COLOR AND TEXTURE SHALL BE COMPLETE AND UNIFORM
 - B. 90% OF INDIVIDUAL TRUNCATED DOMES SHALL BE IN
 - C. ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR TRANSPORTATION FACILITIES, SECTION 705
 - D. THERE SHALL BE NO MORE THAN 4 NON-COMPLIANT DOMES IN ANY ONE SQUARE FOOT
 - E. NON-COMPLIANT DOMES SHALL NOT BE ADJACENT TO OTHER NON-COMPLIANT DOMES
 - F. SURFACES SHALL NOT DEVIATE MORE THAN 0.10" FROM A TRUE PLANE
12. DETECTABLE WARNINGS SHALL BE INSTALLED NO GREATER THAN 5' FROM THE BACK OF CURB OR EDGE OF PAVEMENT.
13. DETECTABLE WARNINGS SHALL NOT BE INSTALLED OVER GRADE BREAKS.

LEGEND



DETECTABLE WARNINGS

CURB RAMP NOMENCLATURE
PICTORIAL VIEWCITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

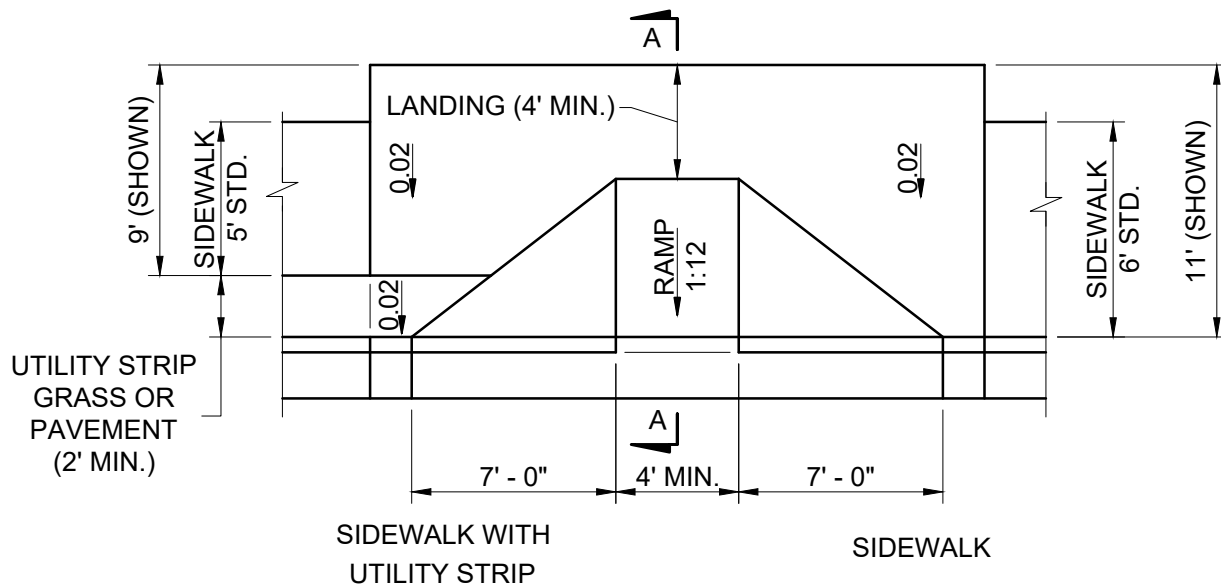
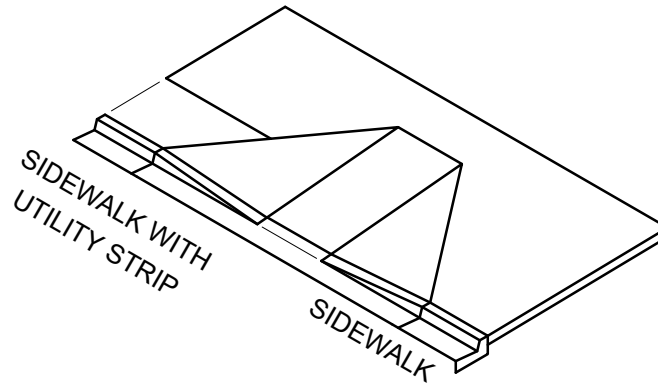
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

DETAIL NO.
ROAD
013

CAM 21-0345

Exhibit 3

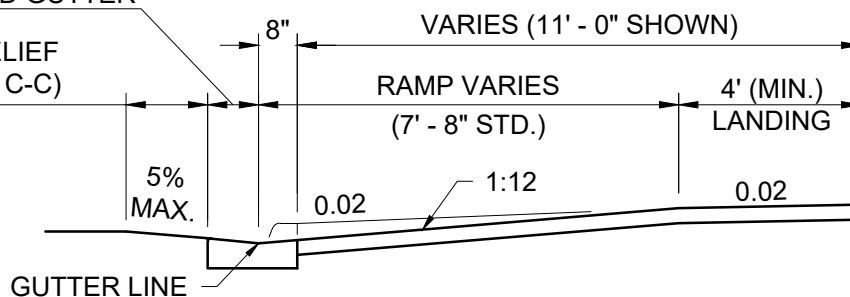
REVISED: 2017/08/14



CR-A

16" WHEN LOCATED ALONG
TYPE 'F' CURB AND GUTTER

PAVEMENT RELIEF
(SEE SECTION C-C)



SECTION A-A

SECTION THROUGH RAMP AND LANDING
(UNRESTRICTED CONDITIONS)

RAMP AND LANDING DEPTHS NOT RESTRICTED



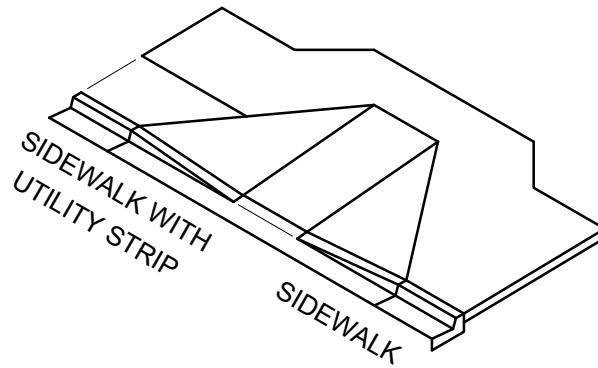
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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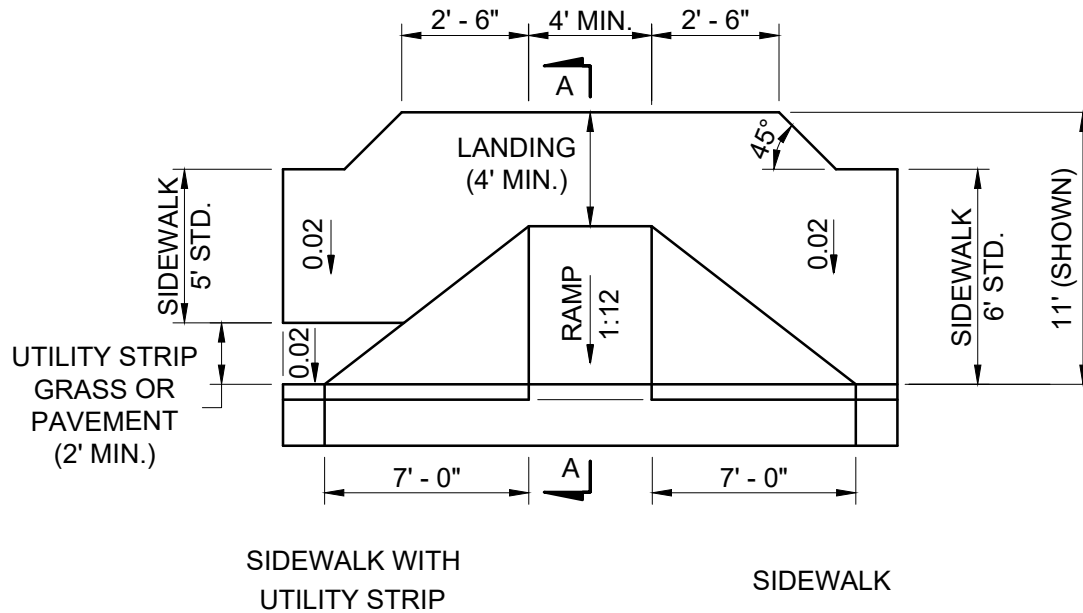
SIDEWALK CURB RAMPS
SHEET 1

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
014
REVISED: 2017/03/14
325



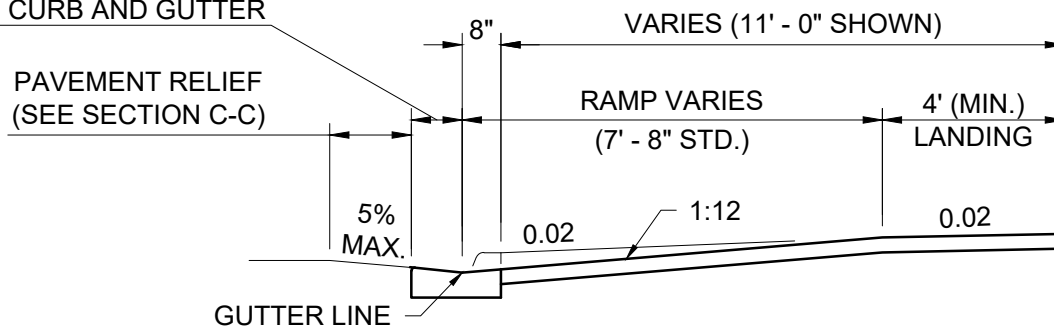
PICTORIAL VIEW



PLAN VIEW

CR-B

16" WHEN LOCATED ALONG
TYPE 'F' CURB AND GUTTER



SECTION A-A

SECTION THROUGH RAMP AND LANDING
(UNRESTRICTED CONDITIONS)

RAMP AND LANDING DEPTHS ARE NOT RESTRICTED



CITY OF FORT LAUDERDALE
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ENGINEERING DETAILS

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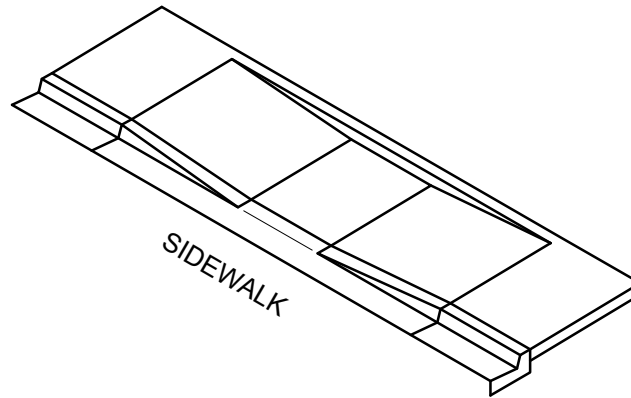
SIDEWALK CURB RAMPS
SHEET 2

CAM 21-0345

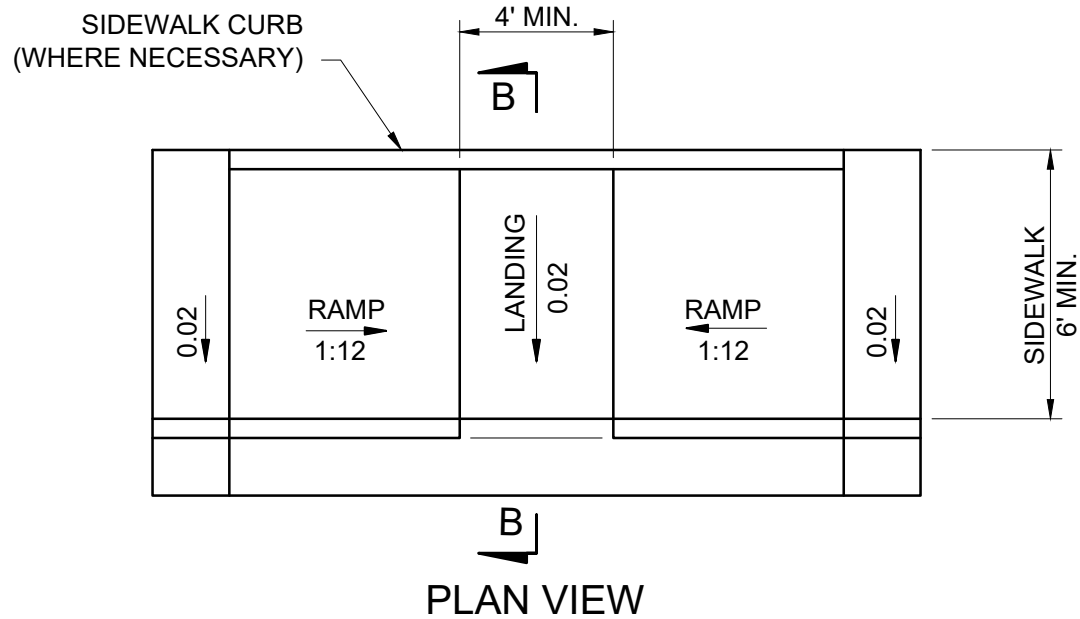
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DETAIL NO.
ROAD
015

REVISED:
2017/08/14

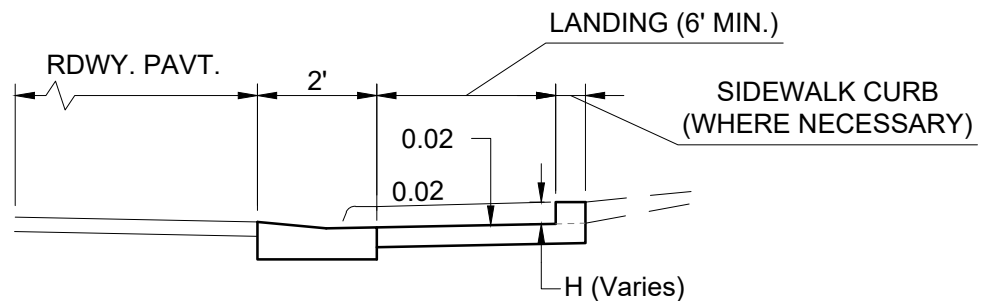


PICTORIAL VIEW



PLAN VIEW

CR-C

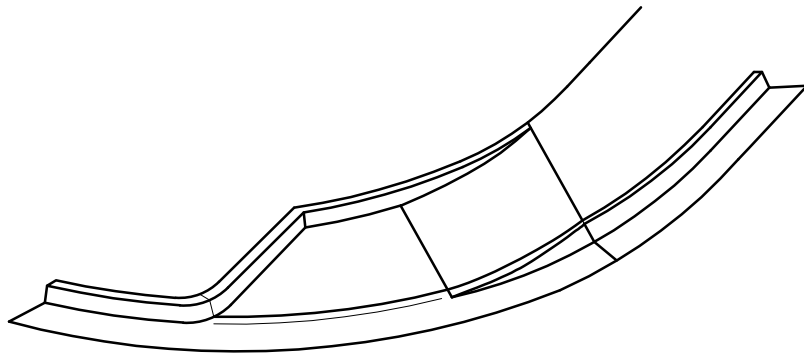


SECTION B-B

SECTION THROUGH LANDING
(UNRESTRICTED CONDITIONS)**NOTE:**FOR ADDITIONAL INFORMATION
ON SIDEWALK CURB
CONSTRUCTION, SEE SIDEWALK
CURB AND SIDEWALK CURB
OPTIONS DETAILS.**RAMP AND LANDING STRIPS NOT RESTRICTED**CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

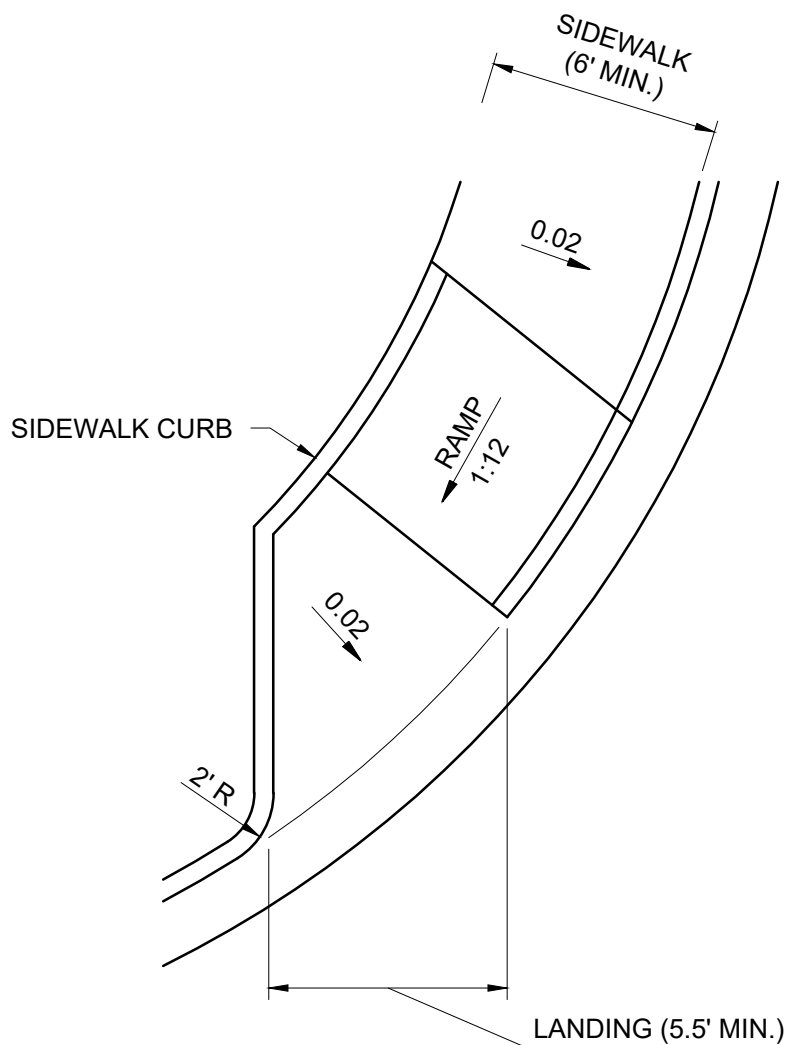
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SIDEWALK CURB RAMPS
SHEET 3CAM 21-0345
Exhibit 3DETAIL NO.
ROAD
016
REVISED:
2017/08/14
327



PICTORIAL VIEW

CR-D



PLAN VIEW

CR-D

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

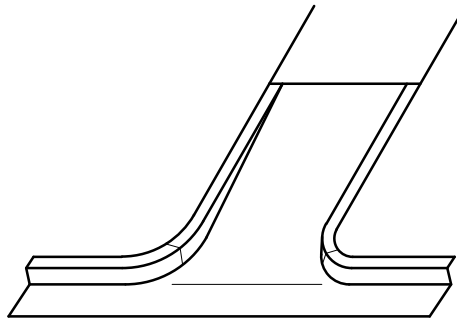
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SIDEWALK CURB RAMPS

SHEET 4

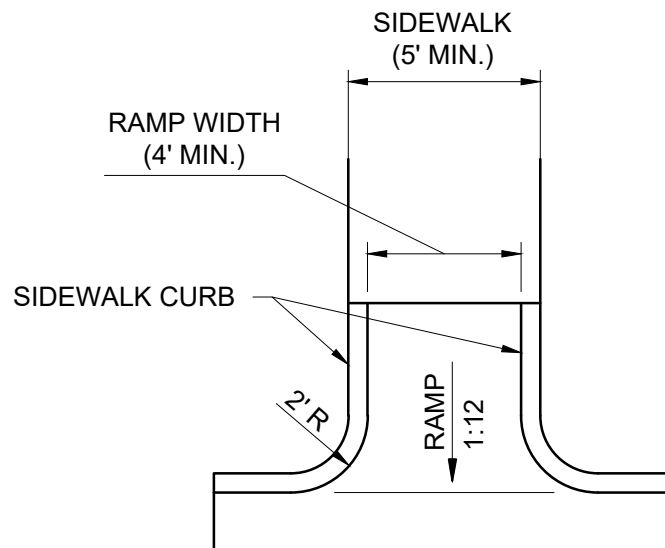
CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
017
REVISED:
2017/03/19 0328



PICTORIAL VIEW

CR-E



PLAN VIEW

CR-E

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC



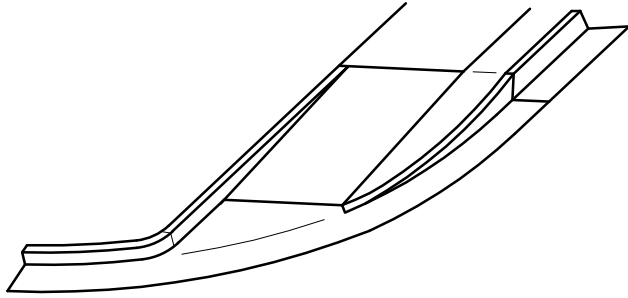
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 5

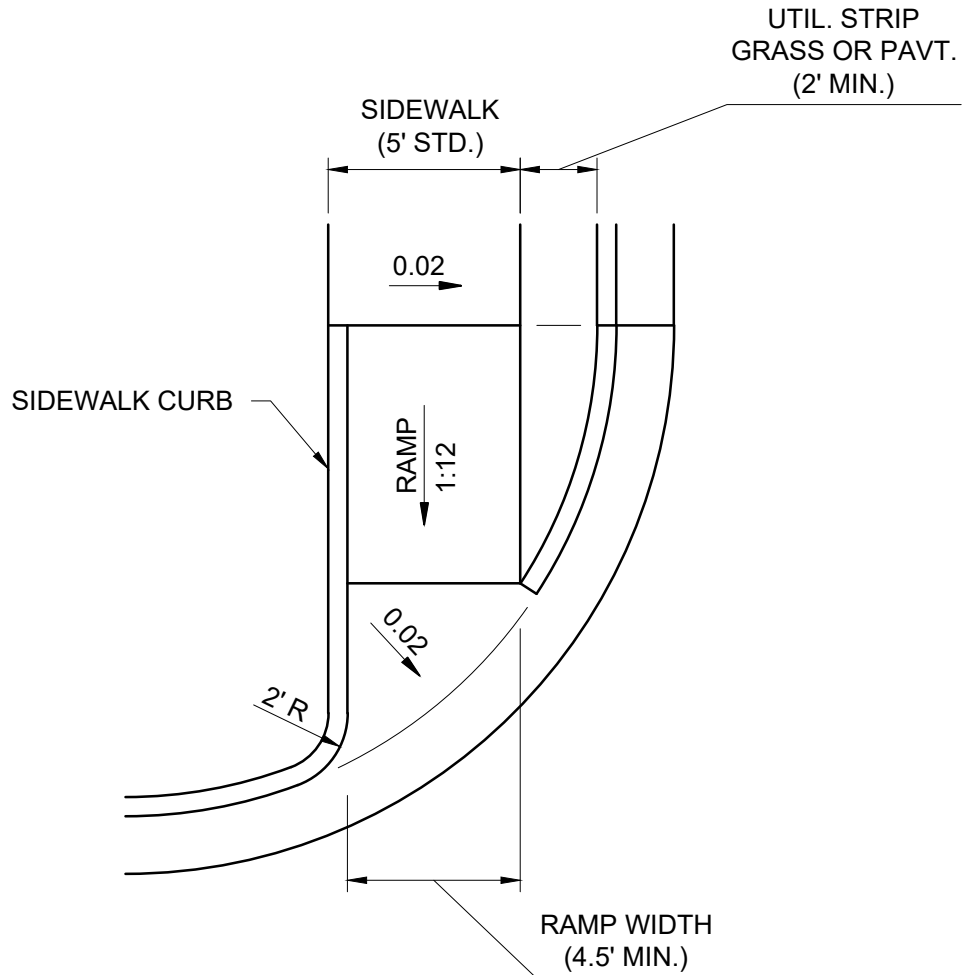
CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
018
REVISED:
2017/08/14
329



PICTORIAL VIEW

CR-F



PLAN VIEW

CR-F

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC



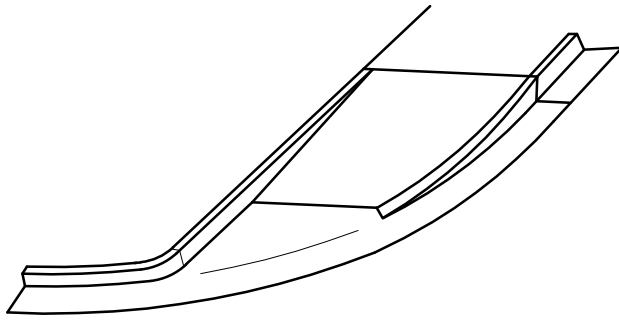
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 6

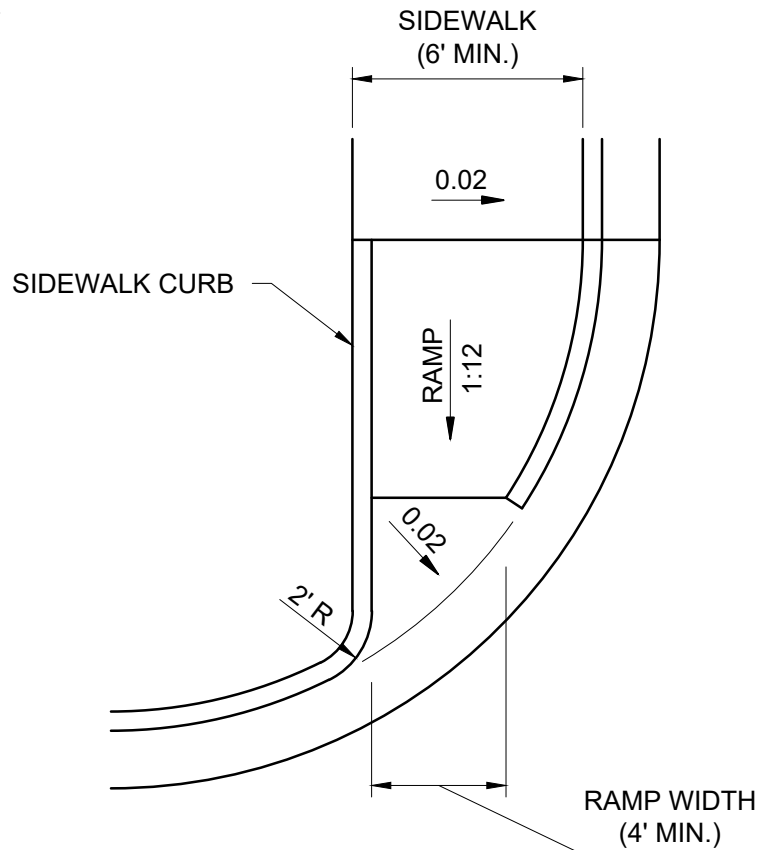
CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
019
REVISED
2017/08/14



PICTORIAL VIEW

CR-G



PLAN VIEW

CR-G

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC



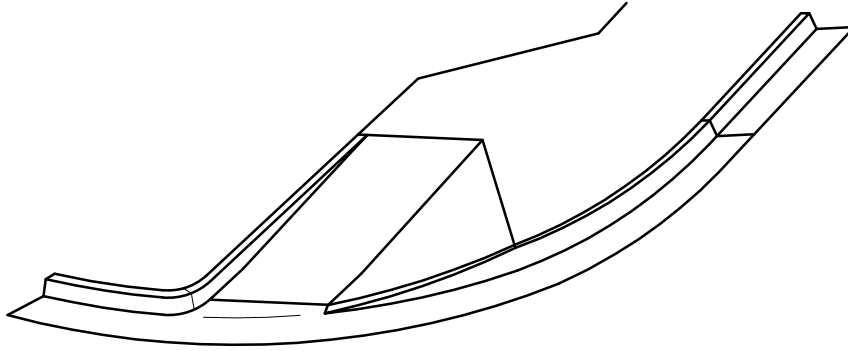
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 7

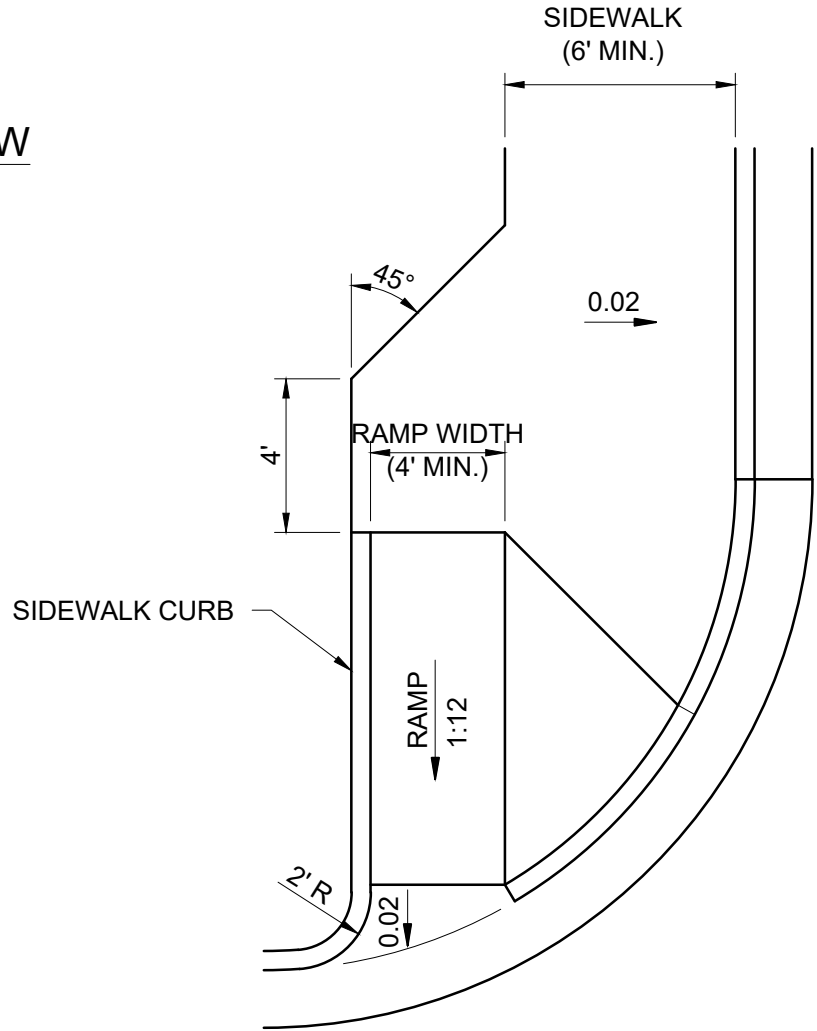
CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
020
REVISED
2017/08/14



PICTORIAL VIEW

CR-H



PLAN VIEW

CR-H

DIMENSIONAL FEATURES OF SIDEWALK CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC



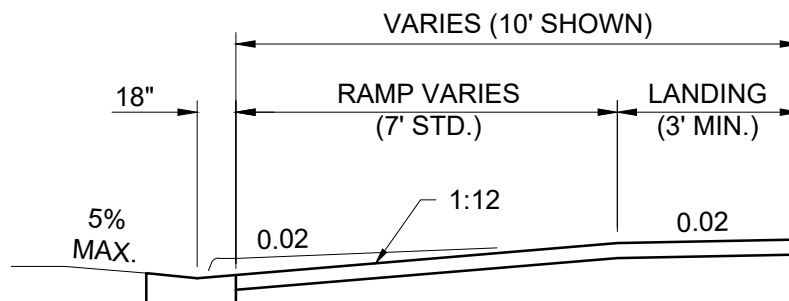
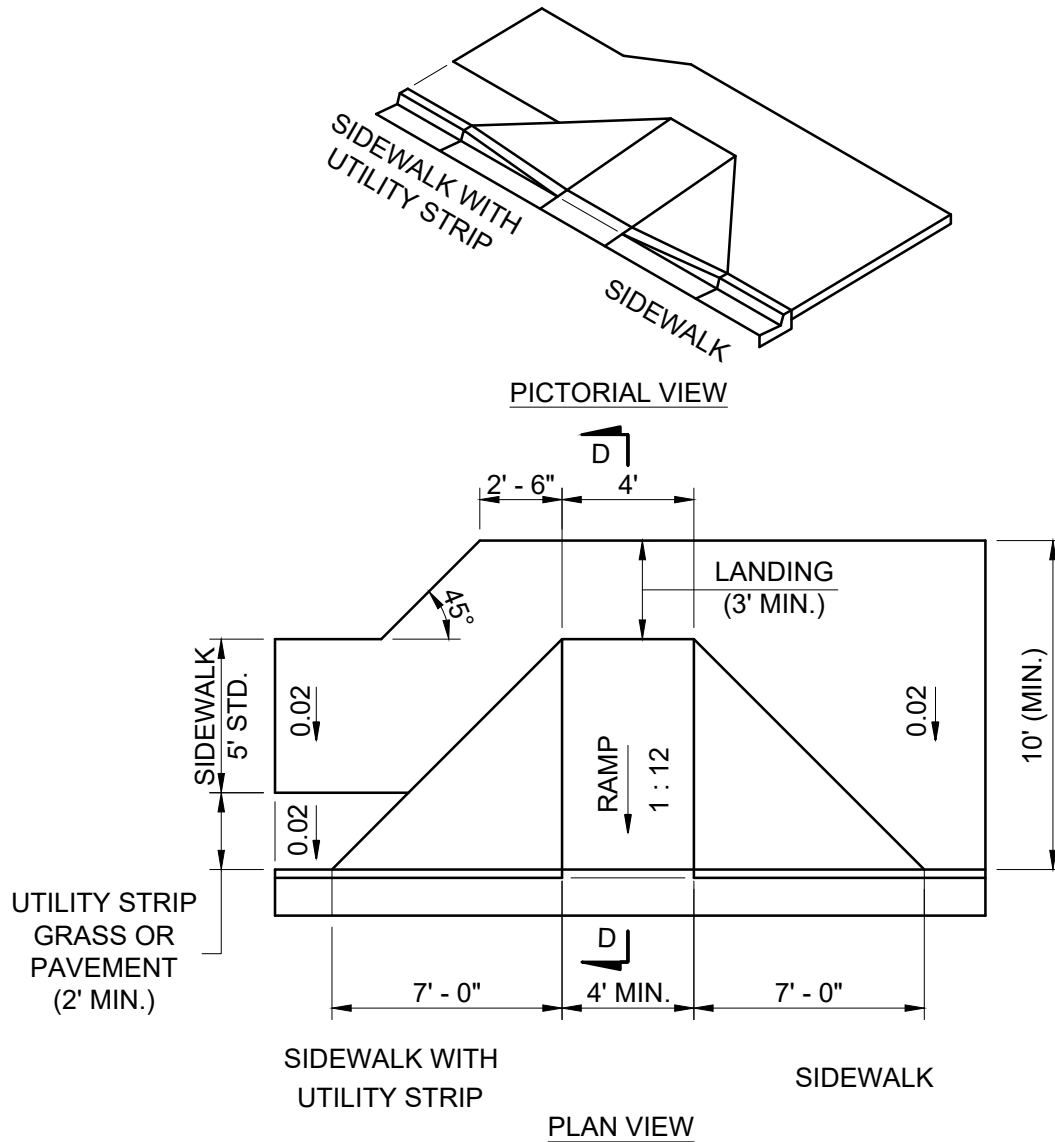
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 8

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
021
REVISED:
2017/08/14
332



SIDEWALK CURB RAMPS WHERE RAMP AND LANDING DEPTHS ARE RESTRICTED



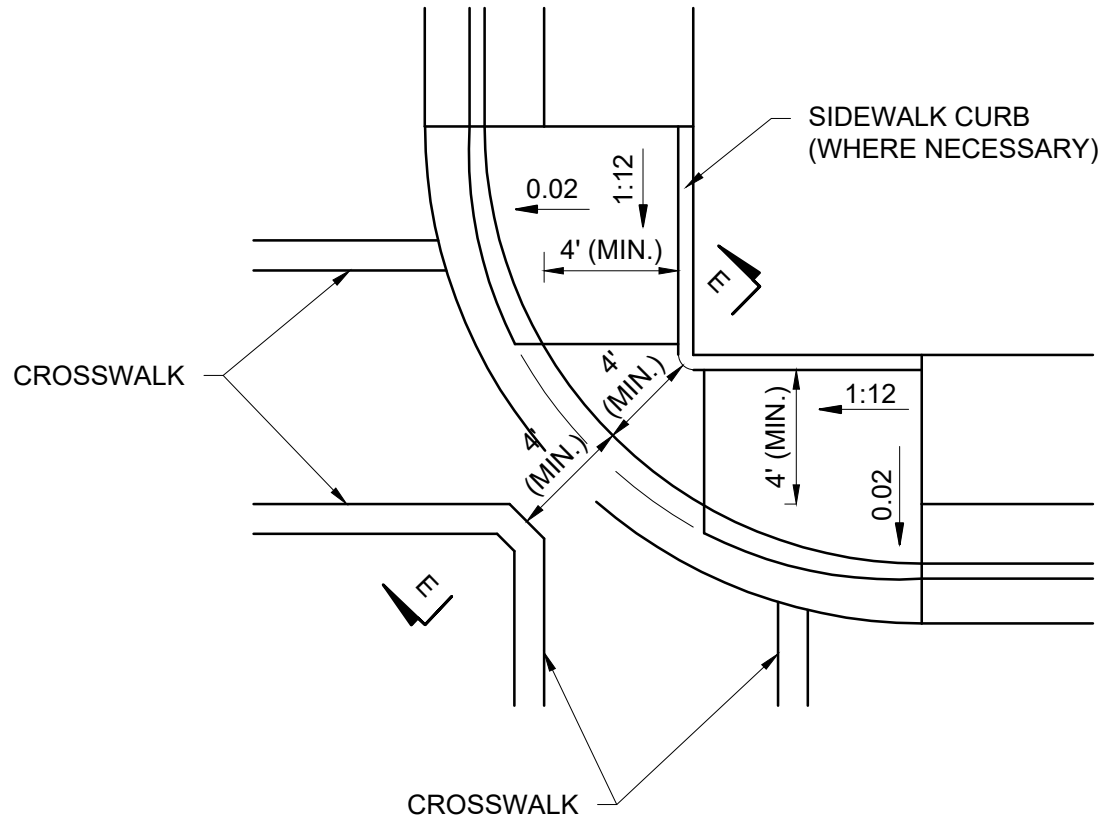
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 9

CAM 21-0345
Exhibit 3

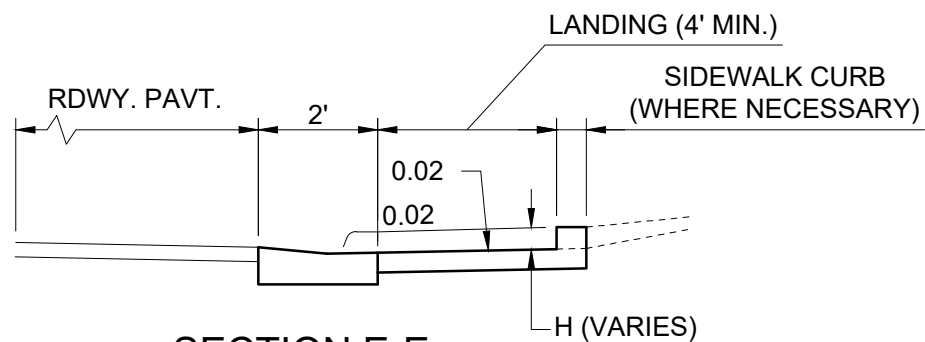
DETAIL NO.
ROAD
022
REVISED:
2017/08/14 333



PLAN VIEW

CR-F

NOTE: CROSSWALK WIDTH AND CONFIGURATION VARY; MUST CONFORM TO INDEX NO. 17344 AND 17346. 15' RADIUS CURVE SHOWN FOR CR-L.



SECTION E-E

SECTION THROUGH LANDING
(RESTRICTED CONDITIONS)

SIDEWALK CURB RAMPS WHERE RAMP AND LANDING DEPTHS ARE RESTRICTED



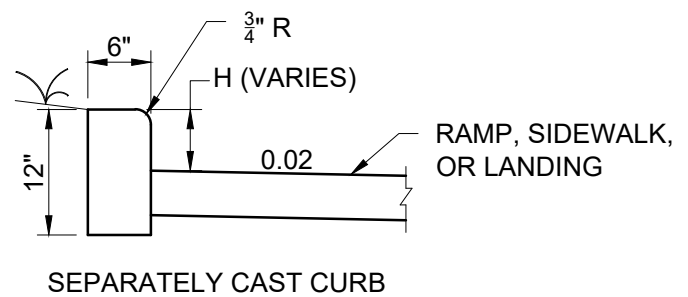
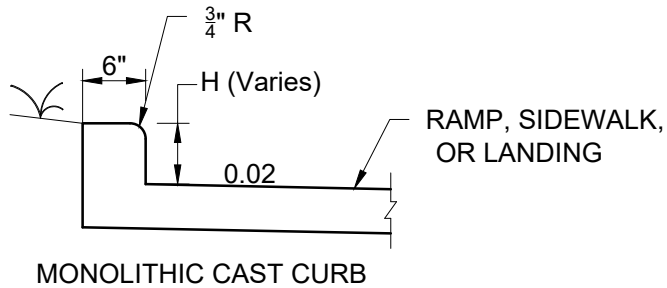
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PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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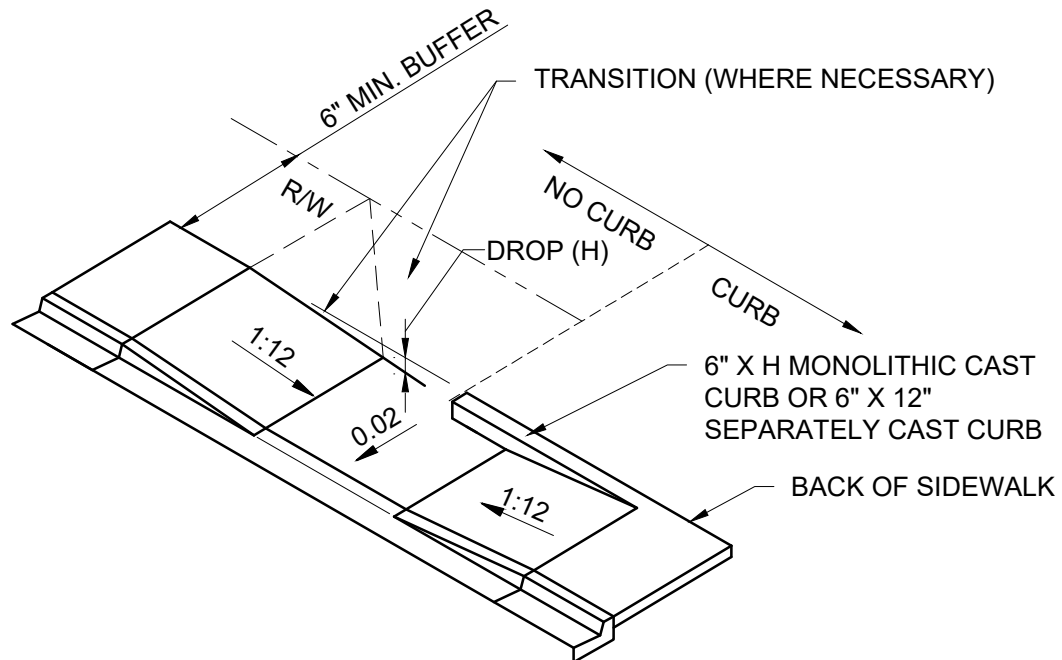
SIDEWALK CURB RAMPS
SHEET 10

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
023
REVISED:
2017/08/14



SIDEWALK CURB OPTIONS



CONSTRUCT SIDEWALK CURB IN CUT SECTIONS

SIDEWALK CURB



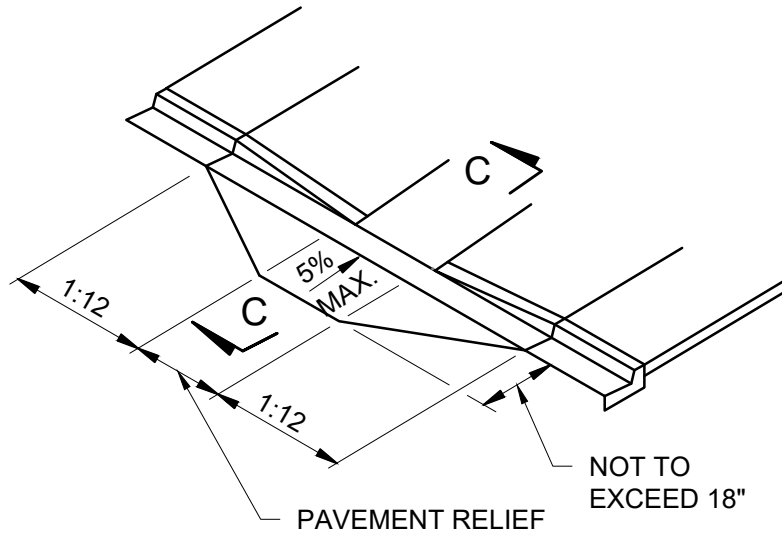
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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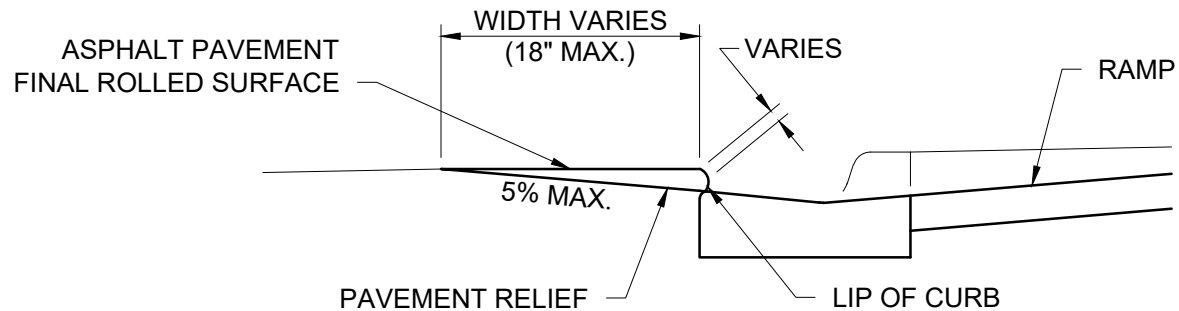
SIDEWALK CURB RAMPS
SHEET 11

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
024
REVISED: 2017/08/14
335



PICTORIAL VIEW



NOTE: REMOVE ELEVATED PAVEMENT BY SPADING
AND ROLLING; SMOOTH MILLING; OR GRINDING

SECTION C-C

PAVEMENT RELIEF AT LIP OF CURB



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PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

SIDEWALK CURB RAMPS
SHEET 12

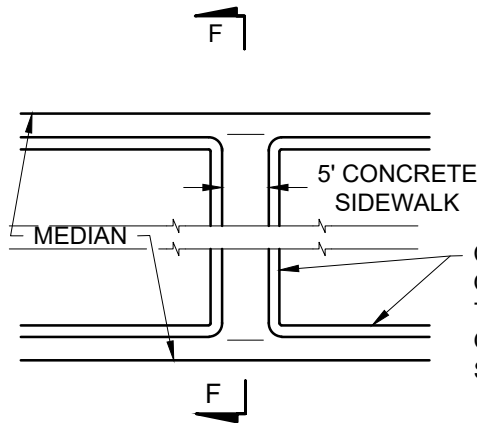
CAM 21-0345

Exhibit 3

DETAIL NO.

ROAD
025

REVISION: 2017/08/14

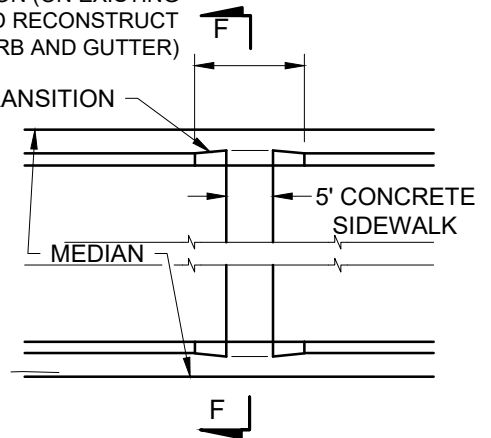
**PLAN VIEW**

CURB TYPES A OR B
OR CURB & GUTTER
TYPE E (CURB AND
GUTTER TYPE E
SHOWN)

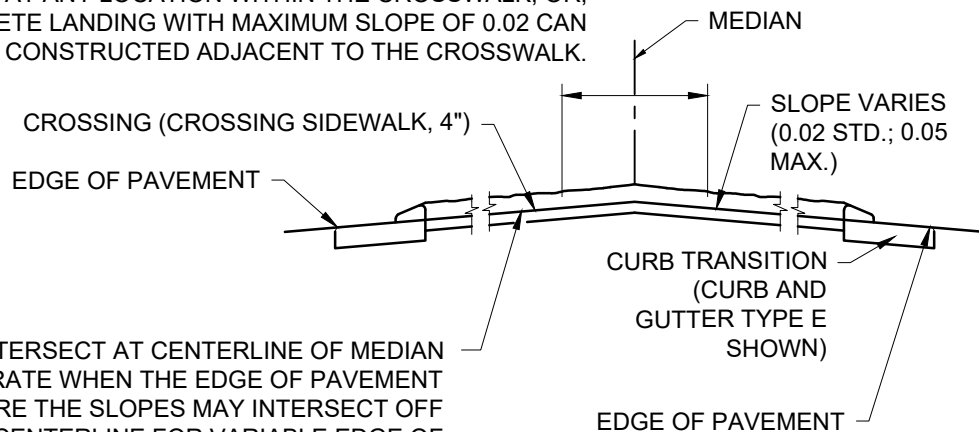
CURB TYPES A OR B OR
CURB AND GUTTER TYPE E
(CURB AND GUTTER
TYPE E SHOWN)

CURB TRANSITION (ON EXISTING
FACILITIES REMOVE AND RECONSTRUCT
CURB OR CURB AND GUTTER)

2' CURB TRANSITION

**PLAN VIEW -
(ALTERNATE DETAIL)**

5' REFUGE WITH MAXIMUM SLOPE OF 0.02 MUST BE PROVIDED WHEN SLOPES OF 0.05 OR FLATTER AND 5' IN LENGTH ARE NOT AVAILABLE ALONG THE CROSSWALK; THE REFUGE CAN BE CONSTRUCTED AT ANY LOCATION WITHIN THE CROSSWALK; OR, A 5' X 5' CONCRETE LANDING WITH MAXIMUM SLOPE OF 0.02 CAN BE CONSTRUCTED ADJACENT TO THE CROSSWALK.



SLOPES TO INTERSECT AT CENTERLINE OF MEDIAN FOR THE 0.02 RATE WHEN THE EDGE OF PAVEMENT ELEVATIONS ARE THE SLOPES MAY INTERSECT OFF THE CENTERLINE FOR VARIABLE EDGE OF PAVEMENT ELEVATIONS OF TO ACCOMMODATE OTHER CONSTRUCTION IN THE MEDIAN; SLOPES ARE NOT TO BE STEEPER THAN 0.05.

**SECTION F-F
MEDIAN REFUGE****MEDIAN CROSSING**

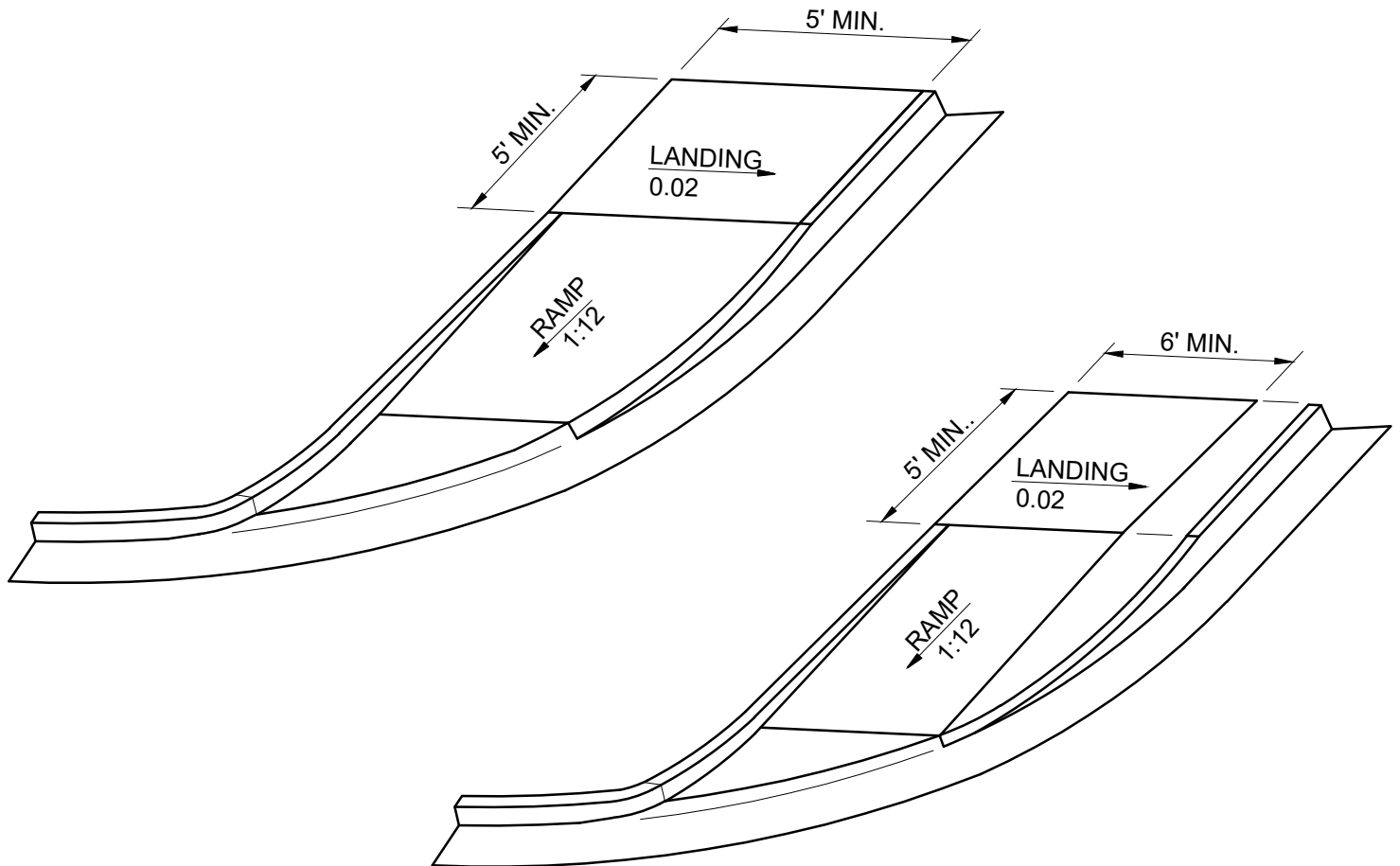
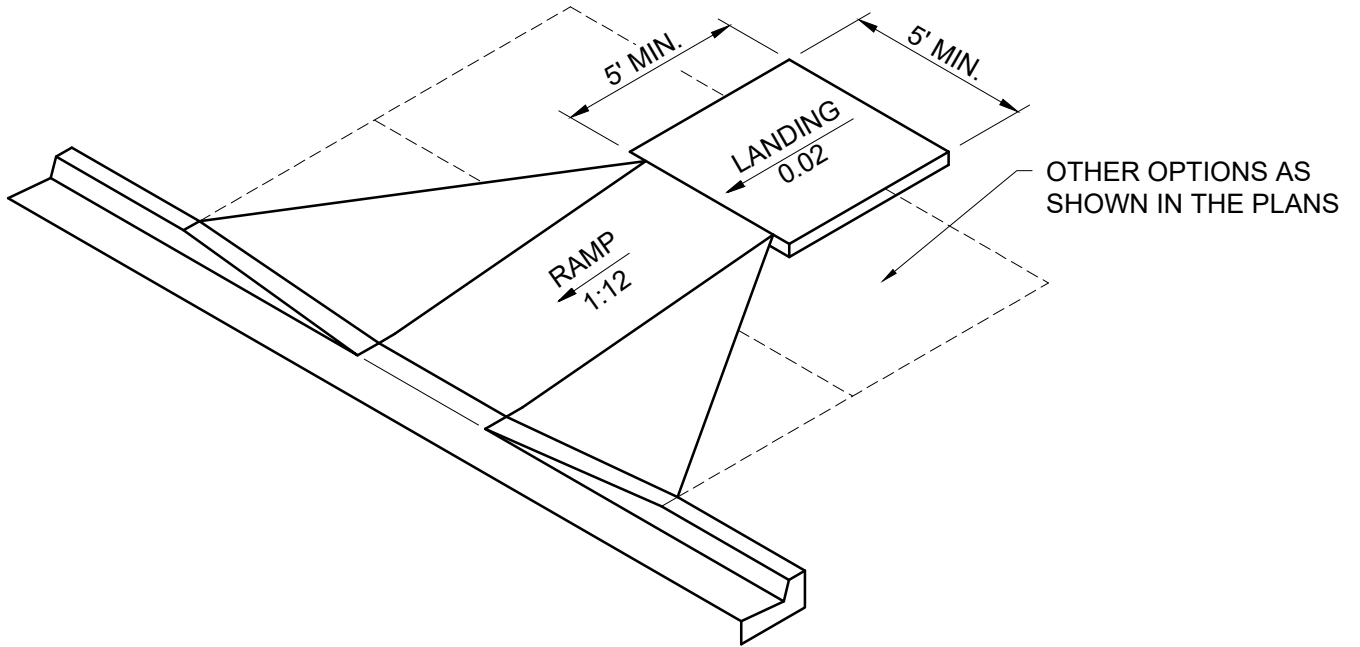
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 13

CAM 21-0345
Exhibit 3

DETAIL NO.
**ROAD
026**
REVISED:
2017/08/14



LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS



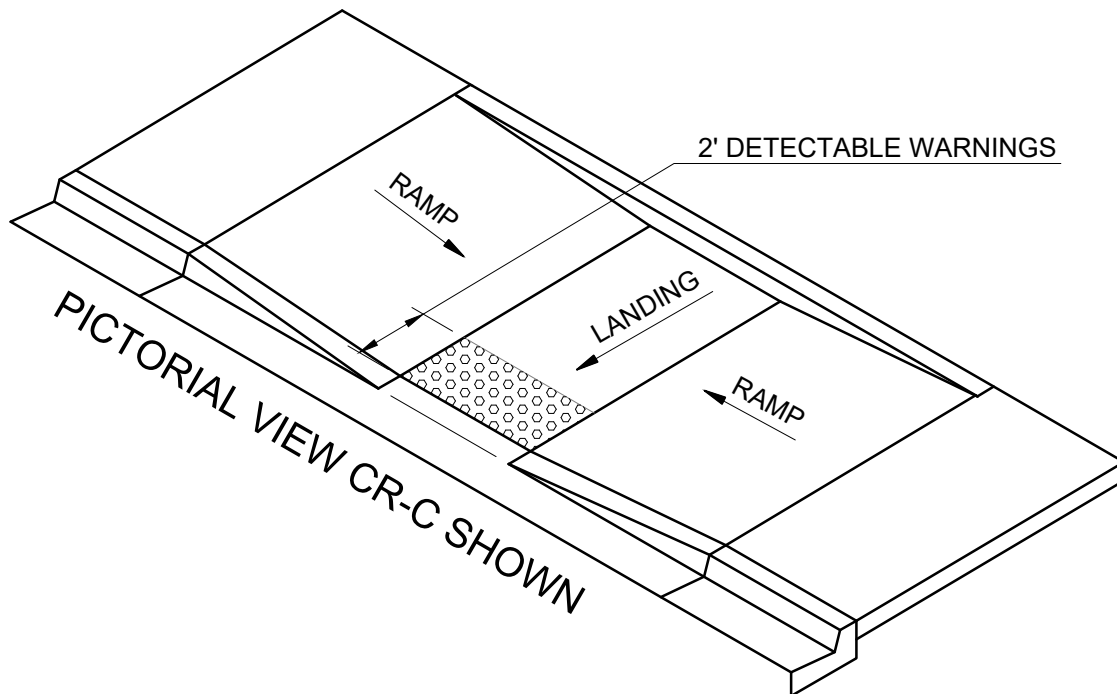
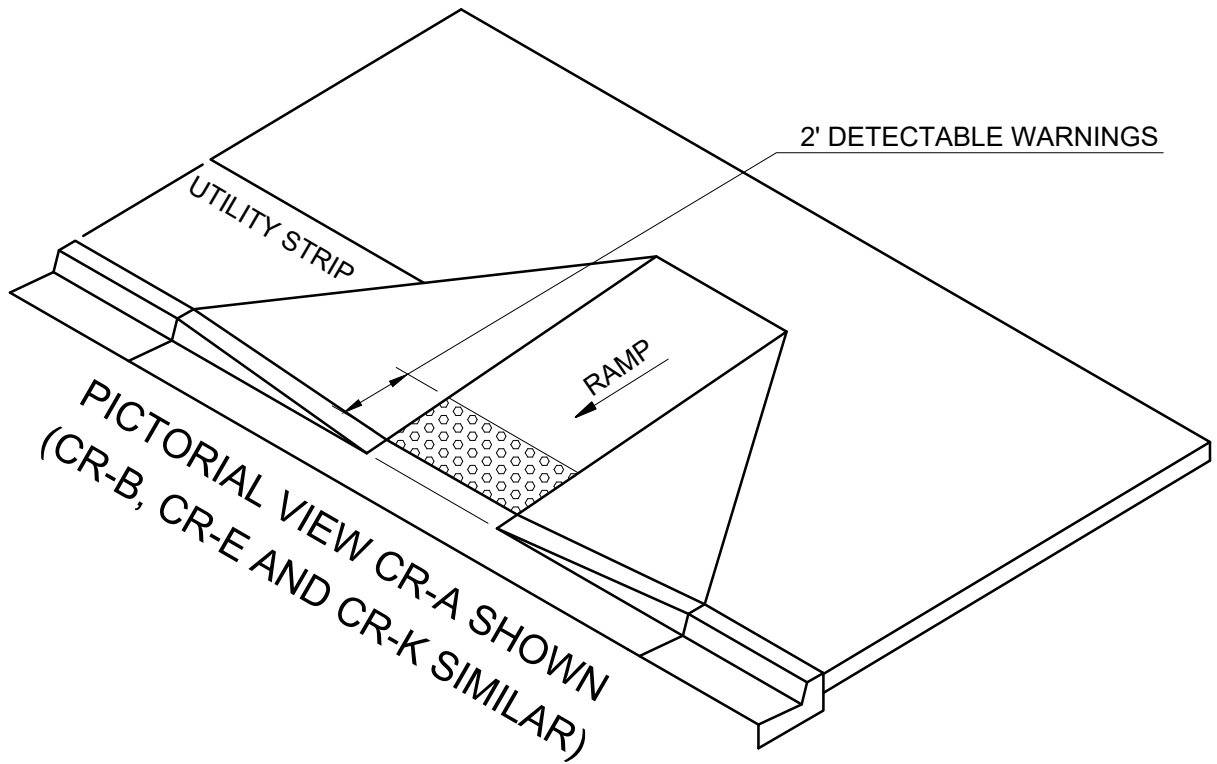
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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SIDEWALK CURB RAMPS
SHEET 14

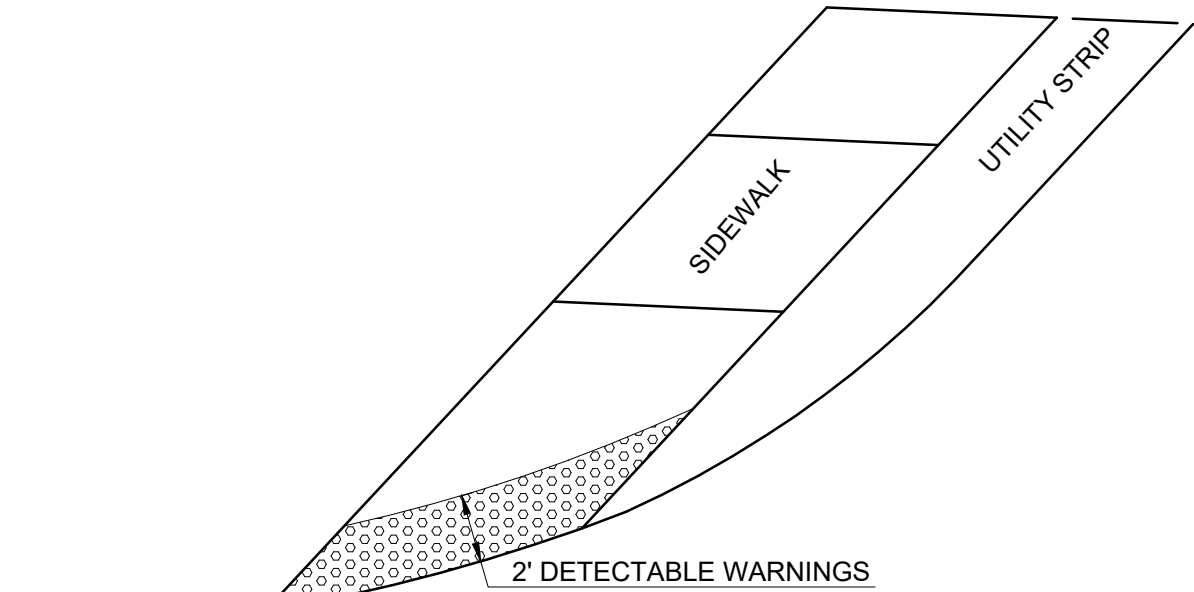
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REVISED:
2017/08/14

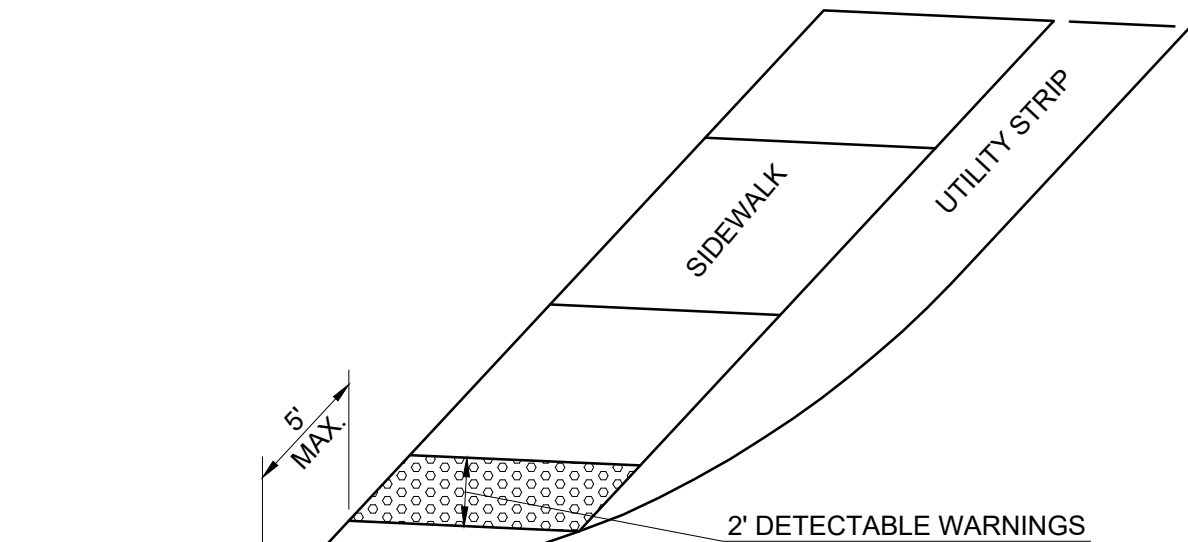


TYPICAL PLACEMENT OF DETECTABLE WARNINGS





PICTORIAL VIEW
FLUSH SHOULDER
(OPTION A)



PICTORIAL VIEW
FLUSH SHOULDER
(OPTION B)

TYPICAL PLACEMENT OF DETECTABLE WARNINGS



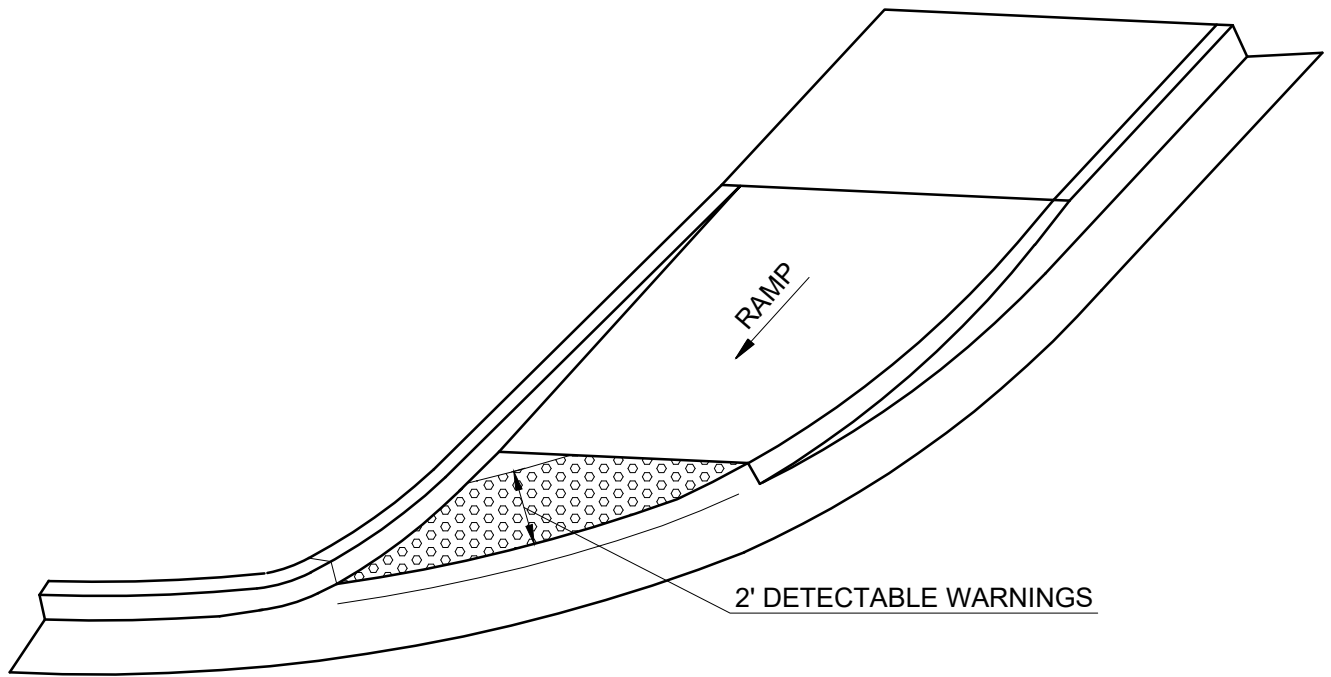
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

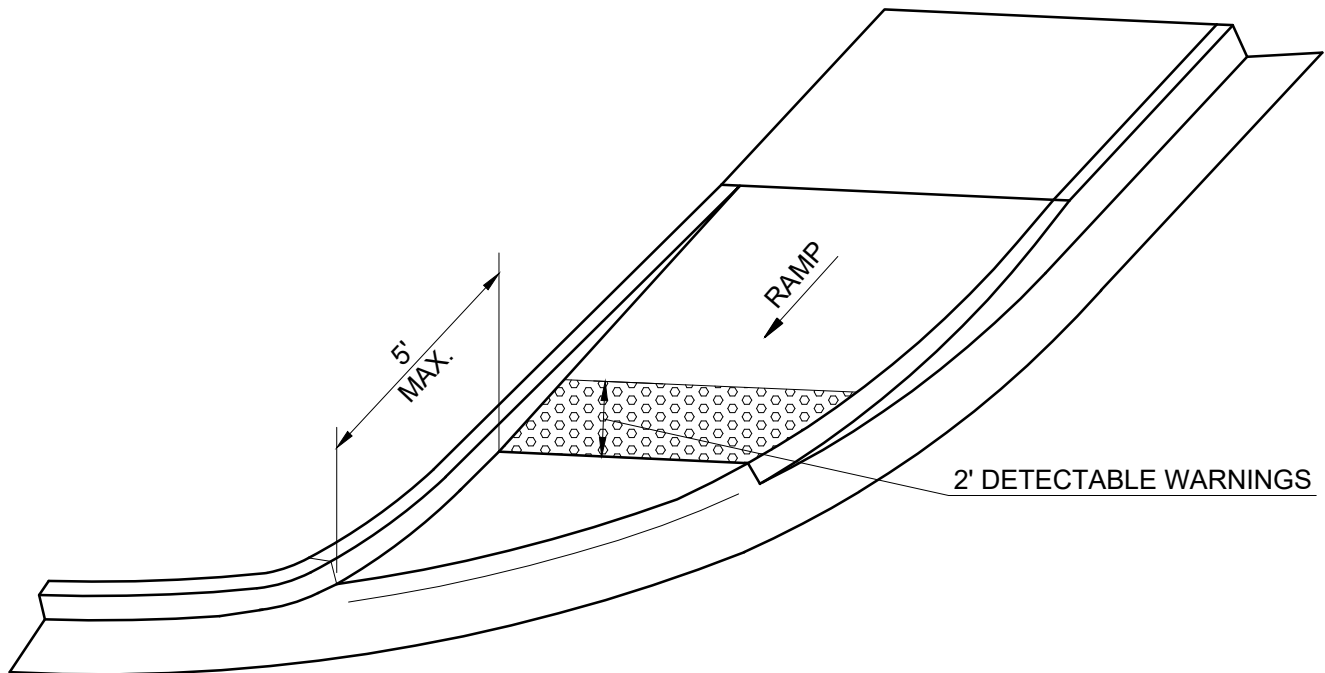
SIDEWALK CURB RAMPS
SHEET 16

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
029
REVISED:
2017/08/14



PICTORIAL VIEW CR-G SHOWN
(OPTION A) (CR-F AND CR-H SIMILAR)



PICTORIAL VIEW CR-G SHOWN
(OPTION B) (CR-F AND CR-H SIMILAR)

TYPICAL PLACEMENT OF DETECTABLE WARNINGS



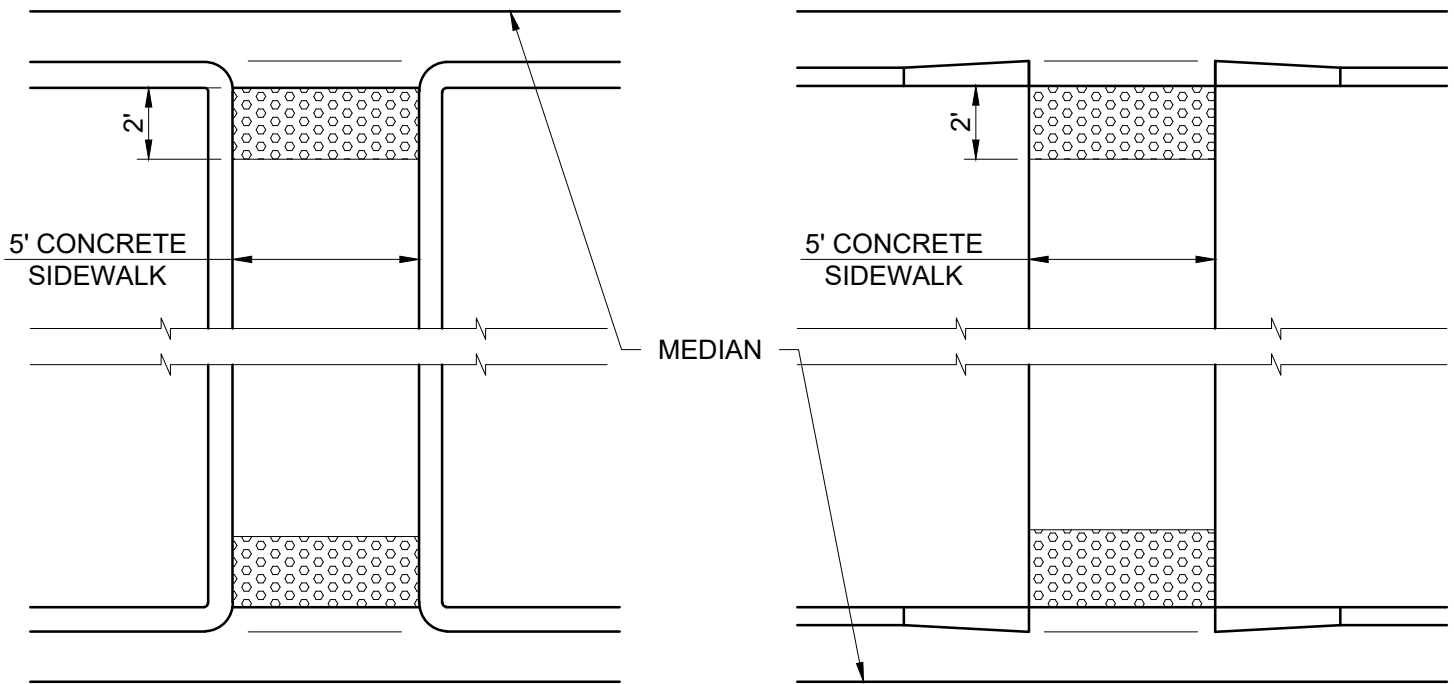
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

SIDEWALK CURB RAMPS
SHEET 17

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
030
REVISED
2017/08/14



PLAN VIEW

PLAN VIEW - (ALTERNATE DETAIL)

MEDIAN CROSSING

TYPICAL PLACEMENT OF DETECTABLE WARNINGS



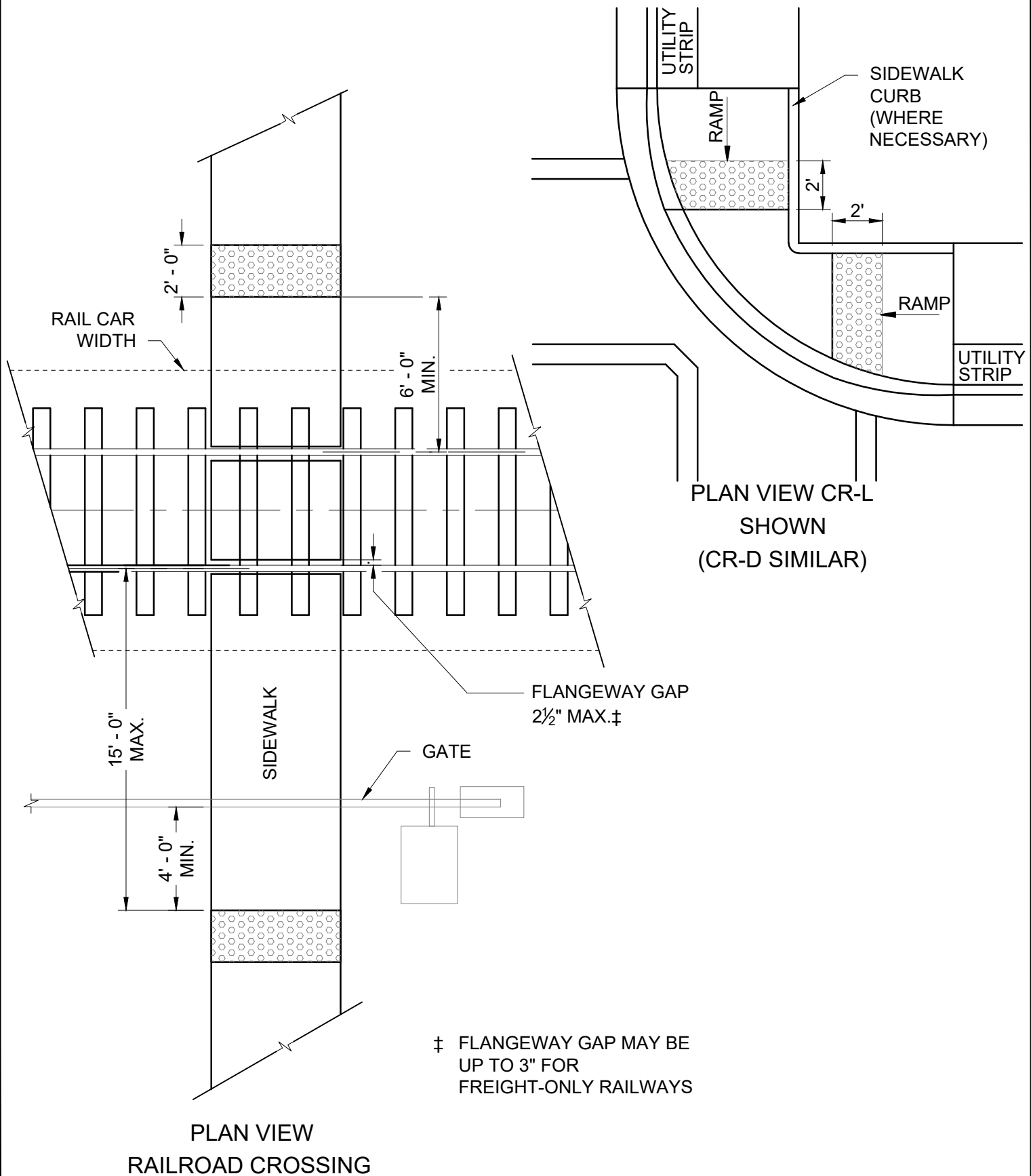
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

SIDEWALK CURB RAMPS
SHEET 18

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
031
REVISED:
2017/08/14



TYPICAL PLACEMENT OF DETECTABLE WARNINGS



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SIDEWALK CURB RAMPS
SHEET 19

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
032
REVISED
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343

**TABLE OF DETECTABLE
WARNINGS**

| CURB RAMP TYPE | CURB RADIUS (FT) | TOTAL AREA (SF) |
|---------------------------|-----------------------------|----------------------------|
| CR-A | N/A | 8 |
| CR-B | N/A | 8 |
| CR-C | N/A | 8 |
| CR-D | 25 | 11 |
| CR-E | N/A | 8 |
| CR-F | 10 | 9 |
| | 20 | 11 |
| | 25 | 13 |
| | 30 | 14 |
| CR-G | 10 | 10 |
| | 20 | 11 |
| | 25 | 12 |
| | 30 | 14 |
| CR-H | 20 | 8 |
| | 25 | 8 |
| | 30 | 8 |
| CR-K | N/A | 8 |
| CR-L | 10 | 18 |
| | 15 | 13 |
| FLUSH SHOULDER | | |
| OPTION A | 10 | 11 |
| | 20 | 14 |
| | 25 | 15 |
| | 30 | 17 |
| | 40 | 19 |
| | 50 | 21 |
| OPTION B | 10 | 10 |
| | 20 | 10 |
| | 25 | 10 |

NOTE:

DUE TO CONSTRUCTION APPLICATIONS, CR-L IS THE ONLY CURB RAMP FOR WHICH A DETECTABLE WARNING QUANTITY WAS CALCULATED USING A CURB RADIUS OF 15'.

FOR FLUSH SHOULDER OPTIONS WITH 5' SIDEWALKS, THE BACK OF SIDEWALK IS MEASURED AT 10' FROM THE EDGE OF TRAVELED WAY.

**AREAS OF DETECTABLE WARNINGS FOR SIDEWALK
CURB RAMP AND FLUSH SHOULDER APPLICATIONS**



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TABLE OF DETECTABLE WARNINGS
SHEET 20

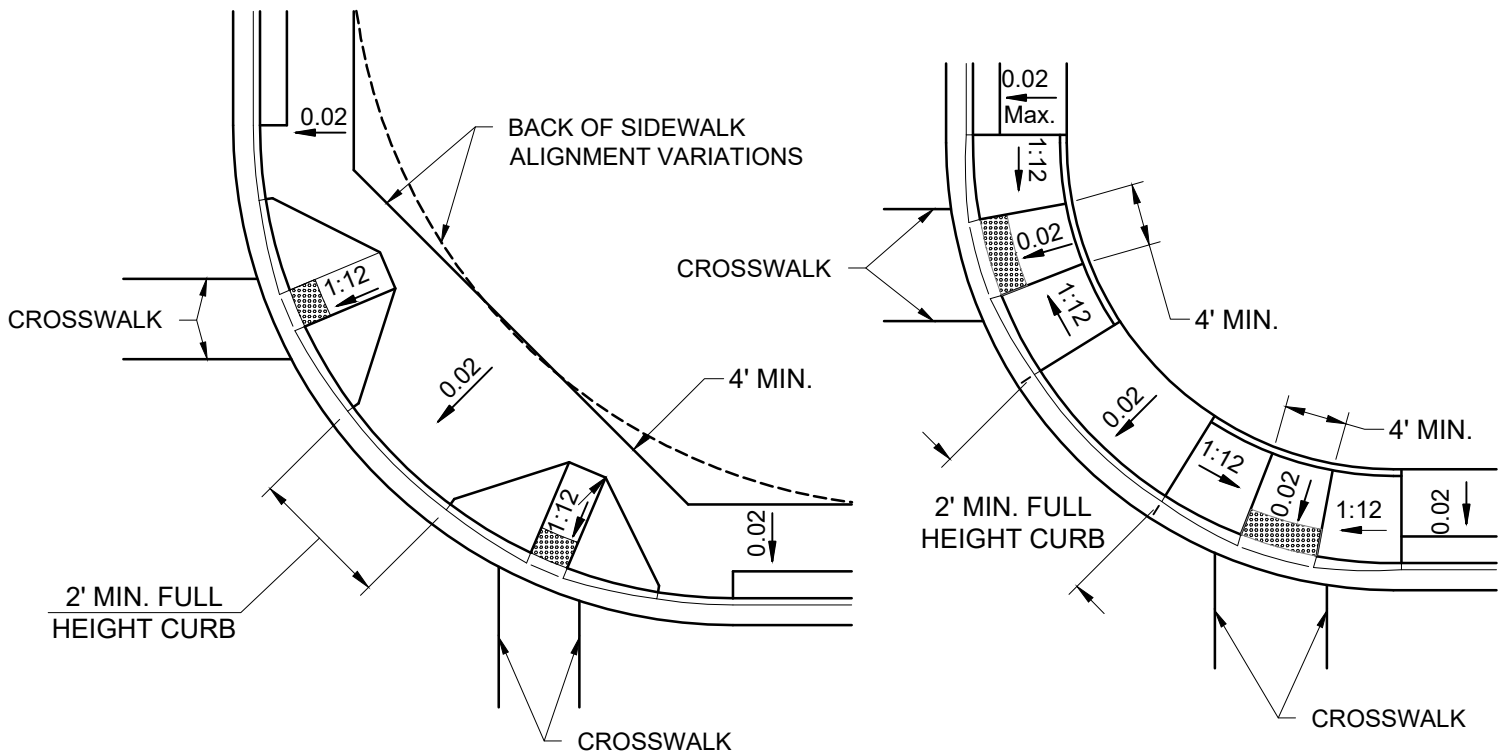
CAM 21-0345

Exhibit 3

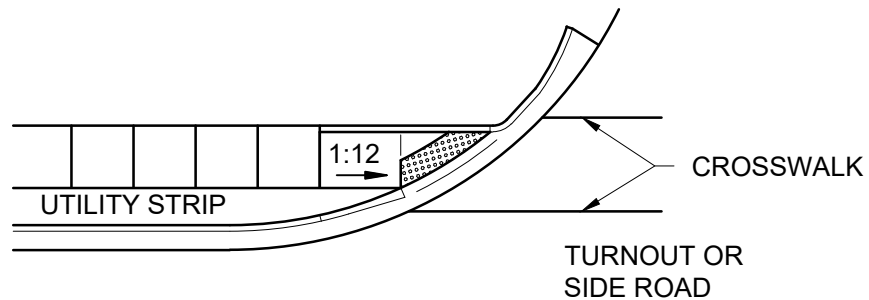
DETAIL NO.

**ROAD
033**

REVISED:
2017/08/14



RADIAL SIDEWALK RAMPS



LINEAR SIDEWALK RAMPS

NOTES:

1. WHERE CROSSWALK MARKINGS ARE USED, RAMPS SHALL FALL WITHIN THE CROSSWALK LIMITS. A CLEAR SPACE OF 48" MINIMUM IS REQUIRED AT THE BOTTOM OF THE RAMP WITHIN A MARKED CROSSWALK. IF CROSSWALK MARKINGS ARE NOT PRESENT, A CLEAR SPACE OF 48" MINIMUM IS REQUIRED AT THE BOTTOM OF THE RAMP OUTSIDE OF ACTIVE TRAVEL LANES.
2. CROSSWALK WIDTHS AND CONFIGURATIONS VARY; MUST CONFORM TO INDEX NO. 17344 AND 17346.

TYPICAL PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS



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TYPICAL PLACEMENT OF SIDEWALK CURB
RAMPS AT CURBED RETURNS

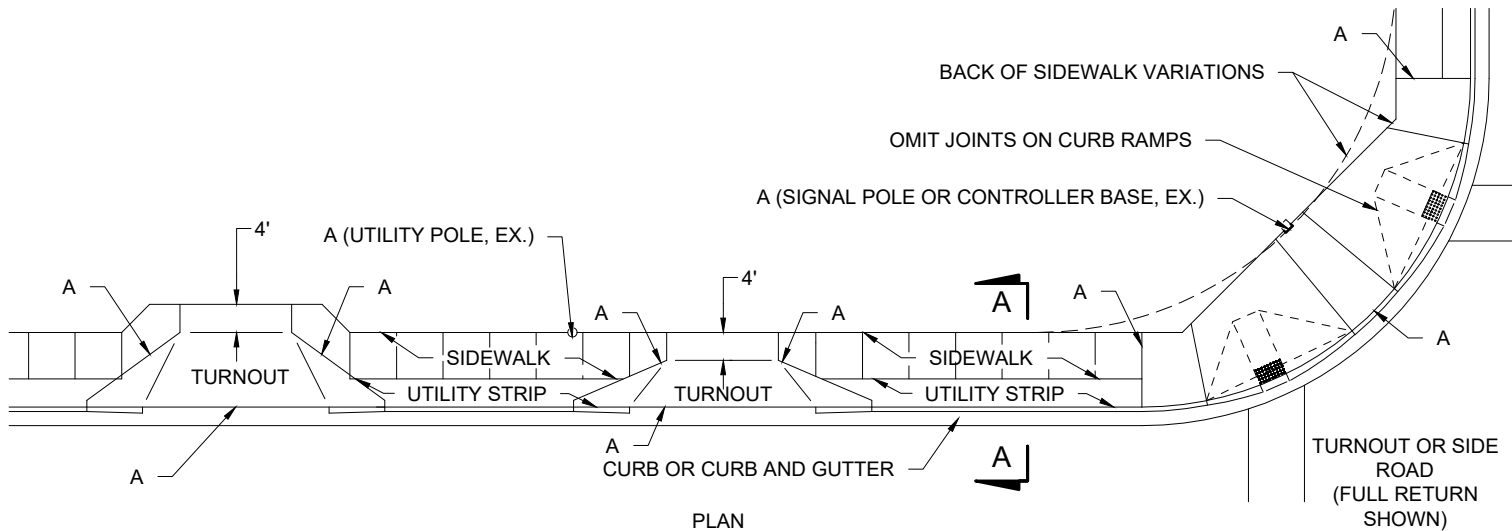
SHEET 21

DETAIL NO.
ROAD
034

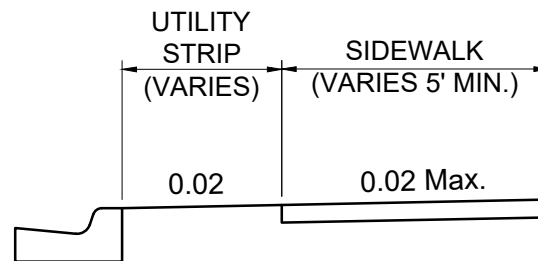
CAM 21-0345

Exhibit 3

REVISED: 2017/08/14



SIDEWALK WITH UTILITY STRIP



NOTES FOR CONCRETE SIDEWALK ON CURBED ROADWAYS

1. CONSTRUCT SIDEWALKS IN ACCORDANCE WITH SPECIFICATION SECTION 522.
2. INCLUDE DETECTABLE WARNINGS ON SIDEWALK CURB RAMPS AND CONSTRUCT IN ACCORDANCE WITH INDEX NO. 304.
3. DETECTABLE WARNINGS ARE NOT REQUIRED WHERE SIDEWALKS INTERSECT URBAN FLARED TURNOUTS.
4. BOND BREAKER MATERIAL CAN BE ANY IMPERMEABLE COATED OR SHEET MEMBRANE OR PREFORMED MATERIAL HAVING A THICKNESS OF NOT LESS THAN 6 MILS NOR MORE THAN $\frac{1}{2}$ ".
5. FOR TURNOUTS SEE INDEX NO. 515.
6. CONSTRUCT SIDEWALKS WITH 1' THICK EDGE BEAM THROUGH THE LIMITS OF ANY SURFACE MOUNTED PEDESTRIAN/BICYCLE PICKET RAILING OR PIPE GUIDERAIL SHOWN IN THE PLANS.

CONCRETE SIDEWALK ON CURBED ROADWAYS



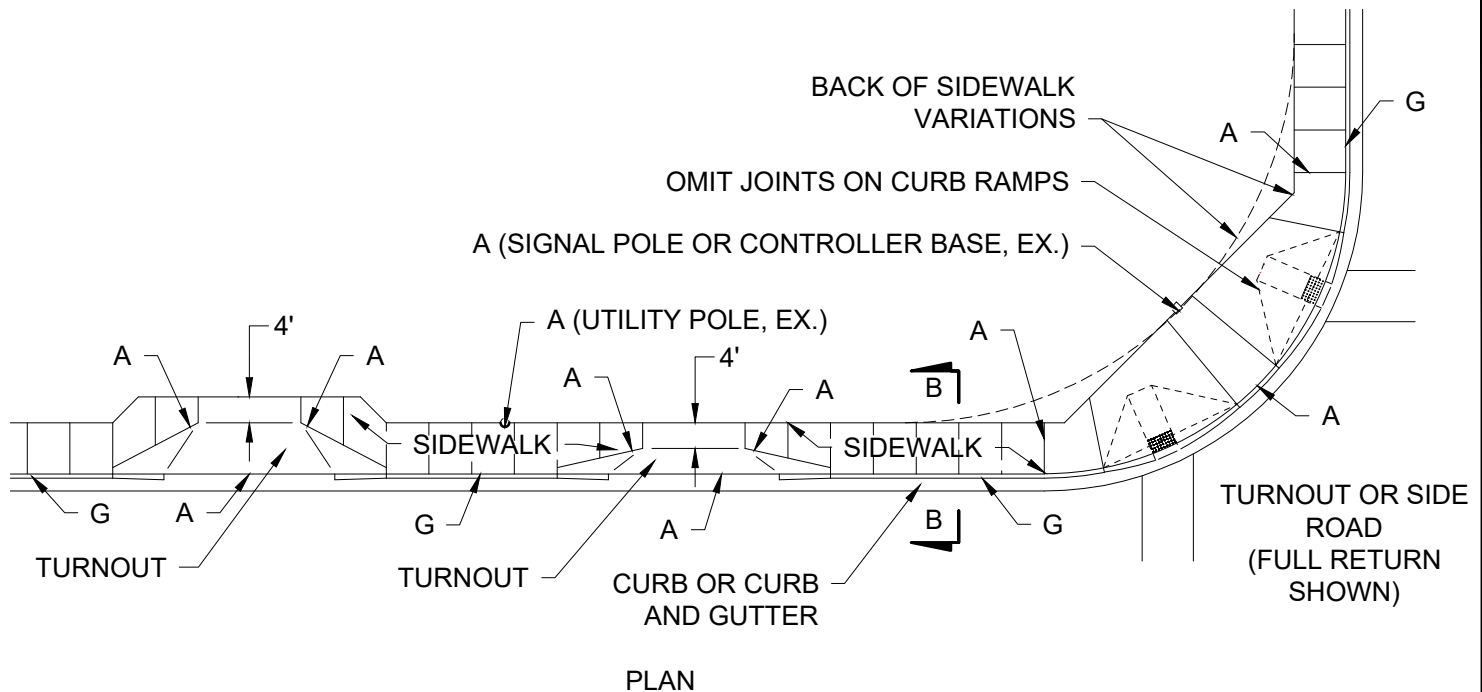
CITY OF FORT LAUDERDALE
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2/22/2021 9:55 AM 33301

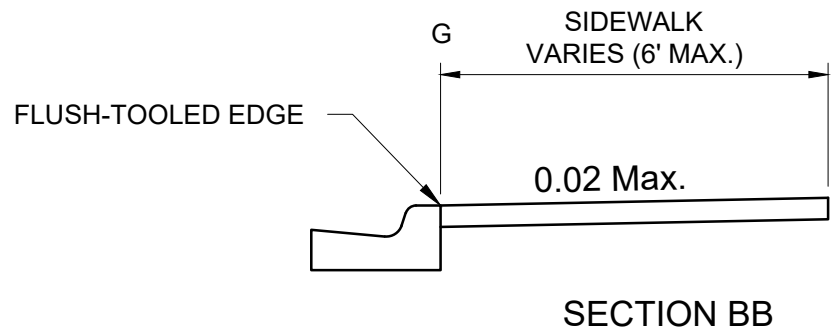
CONCRETE SIDEWALK
SHEET 1

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
035
REVISED:
2017/03/14



SIDEWALK WITHOUT UTILITY STRIP



NOTES FOR CONCRETE SIDEWALK ON CURBED ROADWAYS

1. CONSTRUCT SIDEWALKS IN ACCORDANCE WITH SPECIFICATION SECTION 522.
2. INCLUDE DETECTABLE WARNINGS ON SIDEWALK CURB RAMPS AND CONSTRUCT IN ACCORDANCE WITH INDEX NO. 304.
3. DETECTABLE WARNINGS ARE NOT REQUIRED WHERE SIDEWALKS INTERSECT URBAN FLARED TURNOUTS.
4. BOND BREAKER MATERIAL CAN BE ANY IMPERMEABLE COATED OR SHEET MEMBRANE OR PREFORMED MATERIAL HAVING A THICKNESS OF NOT LESS THAN 6 MILS NOR MORE THAN $\frac{1}{2}$ ".
5. FOR TURNOUTS SEE INDEX NO. 515.
6. CONSTRUCT SIDEWALKS WITH 1' THICK EDGE BEAM THROUGH THE LIMITS OF ANY SURFACE MOUNTED PEDESTRIAN/BICYCLE PICKET RAILING OR PIPE GUIDERAIL SHOWN IN THE PLANS.

CONCRETE SIDEWALK ON CURBED ROADWAYS



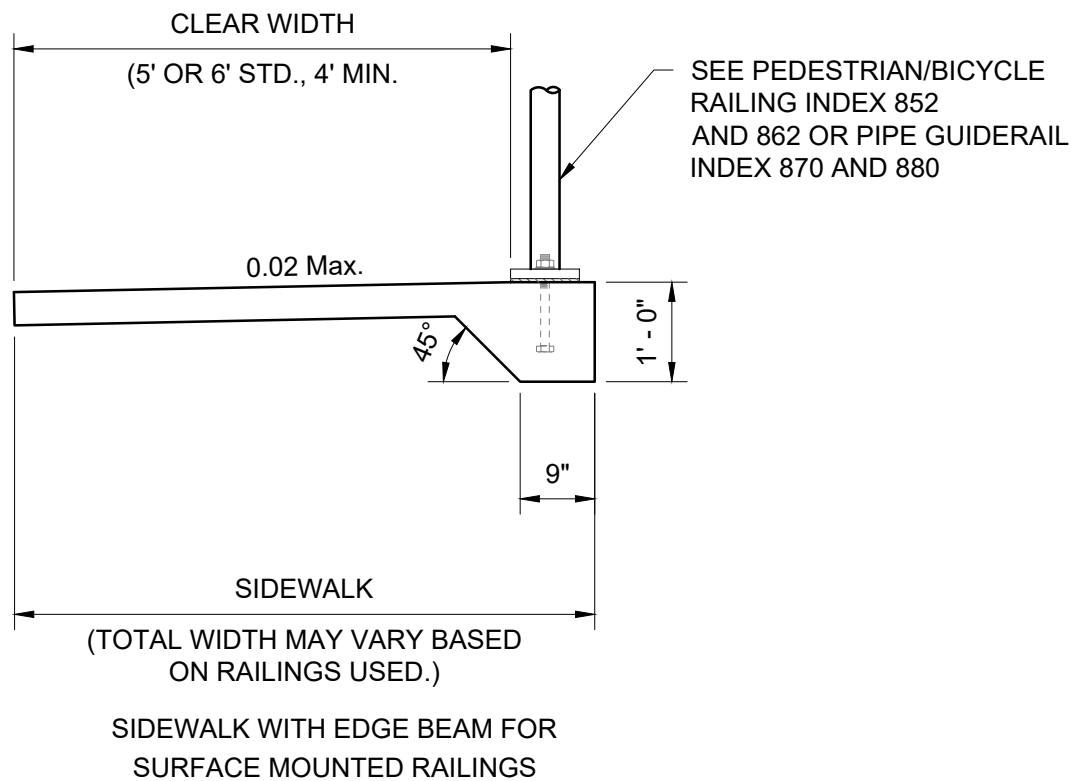
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CONCRETE SIDEWALK
SHEET 2

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
036
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SIDEWALK WITH EDGE BEAM FOR SURFACE MOUNTED RAILINGS



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CONCRETE SIDEWALK
SHEET 3

CAM 21-0345
Exhibit 3

DETAIL NO.
ROAD
037
REVISED:
2017/08/14

| BASE THICKNESS AND OPTION CODES | | | | | | | | | | |
|---------------------------------|------------------|----------------------------|------------------------------|---------------------------|---------------------|-------------------------|---|--------------------------------|-------------|---|
| BASE GROUP | STRUCTURAL RANGE | BASE GROUP PAY ITEM NUMBER | Base Options | | | | | | | |
| | | | LIMEROCK, LBR 100 | CEMENTED COQUINA, LBR 100 | SHELL ROCK, LBR 100 | BANK RUN SHELL, LBR 100 | RECYCLED CONCRETE AGGREGATE, LBR 150 ** | GRADED AGGREGATE BASE, LBR 100 | TYPE B-12.5 | B-12.5 AND 4" GRANULAR SUBBASE, LBR 100 * |
| | | | STRUCTURAL NUMBER (PER. IN.) | | | | | | | |
| | | | (0.18) | (0.18) | (0.18) | (0.18) | (0.18) | (0.15) | (0.30) | (0.30 & 0.15) |
| 1 | 0.65-0.75 | 701 | 4" | 4" | 4" | 4" | 4" | 4½" | 4" | <input type="checkbox"/> 5" |
| 2 | 0.80-0.90 | 702 | 5" | 5" | 5" | 5" | 5" | 5½" | 4" | |
| 3 | 0.95-1.05 | 703 | 5½" | 5½" | 5½" | 5½" | 5½" | 6½" | 4" | |
| 4 | 1.05-1.15 | 704 | 6" | 6" | 6" | 6" | 6" | 7½" | 4" | |
| 5 | 1.25-1.35 | 705 | 7" | 7" | 7" | 7" | 7" | 8½" | 4½" | |
| 6 | 1.35-1.50 | 706 | 8" | 8" | 8" | 8" | 8" | 9" | 5" | |
| 7 | 1.50-1.65 | 707 | 8½" | 8½" | 8½" | 8½" | 8½" | 10" | 5½" | |
| 8 | 1.65-1.75 | 708 | 9½" | 9½" | 9½" | 9½" | 9½" | 11" | 5½" | |
| 9 | 1.75-1.85 | 709 | 10" | 10" | 10" | 10" | 10" | 12" | 6" | 4" |
| 10 | 1.90-2.00 | 710 | 11" | 11" | 11" | 11" | 11" | Ø 13" | 6½" | 4½" |
| 11 | 2.05-2.15 | 711 | 12" | 12" | 12" | 12" | 12" | Ø 14" | 7" | 5" |
| 12 | 2.20-2.30 | 712 | 12½" | 12½" | 12½" | 12½" | 12½" | | 7½" | 5½" |
| 13 | 2.35-2.45 | 713 | Ø 13½" | Ø 13½" | Ø 13½" | Ø 13½" | Ø 13½" | | 8" | 6" |
| 14 | 2.45-2.55 | 714 | Ø 14" | Ø 14" | Ø 14" | Ø 14" | Ø 14" | | 8½" | 6½" |
| 15 | 2.60-2.70 | 715 | | | | | | | 9" | 7" |

* FOR GRANULAR SUBBASE, THE CONSTRUCTION OF BOTH THE SUBBASE AND TYPE B-12.5 WILL BE BID AND USED AS OPTIONAL BASE. GRANULAR SUBBASES INCLUDE LIMEROCK, CEMENTED COQUINA, SHELL ROCK, BANK RUN SHELL, RECYCLED CONCRETE AGGREGATE AND GRADED AGGREGATE BASE. THE BASE THICKNESS SHOWN IS TYPE B-12.5. ALL SUBBASE THICKNESSES ARE 4" MINIMUM.

** FOR RESTRICTIONS ON THE USE OF RECYCLED CONCRETE AGGREGATE - SEE SPECIFICATIONS SECTION 911.

Ø TO BE USED FOR WIDENING, THREE FEET OR LESS.

BASED ON MINIMUM PRACTICAL THICKNESSES.

☐ FOR RESTRICTIONS ON THE USE OF RAP BASE - SEE STANDARD SPECIFICATIONS.

GENERAL NOTES

- WHERE BASE OPTIONS ARE SPECIFIED IN THE PLANS, ONLY THOSE OPTIONS MAY BE BID AND USED.
- IN SITUATIONS WHERE THE DESIGNER REQUIRES THE USE OF A SINGLE BASE OPTION, AS SHOWN IN THE PLANS, BID AND USE AS OPTIONAL BASE.



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OPTIONAL BASE GROUP & STRUCTURAL NUMBERS

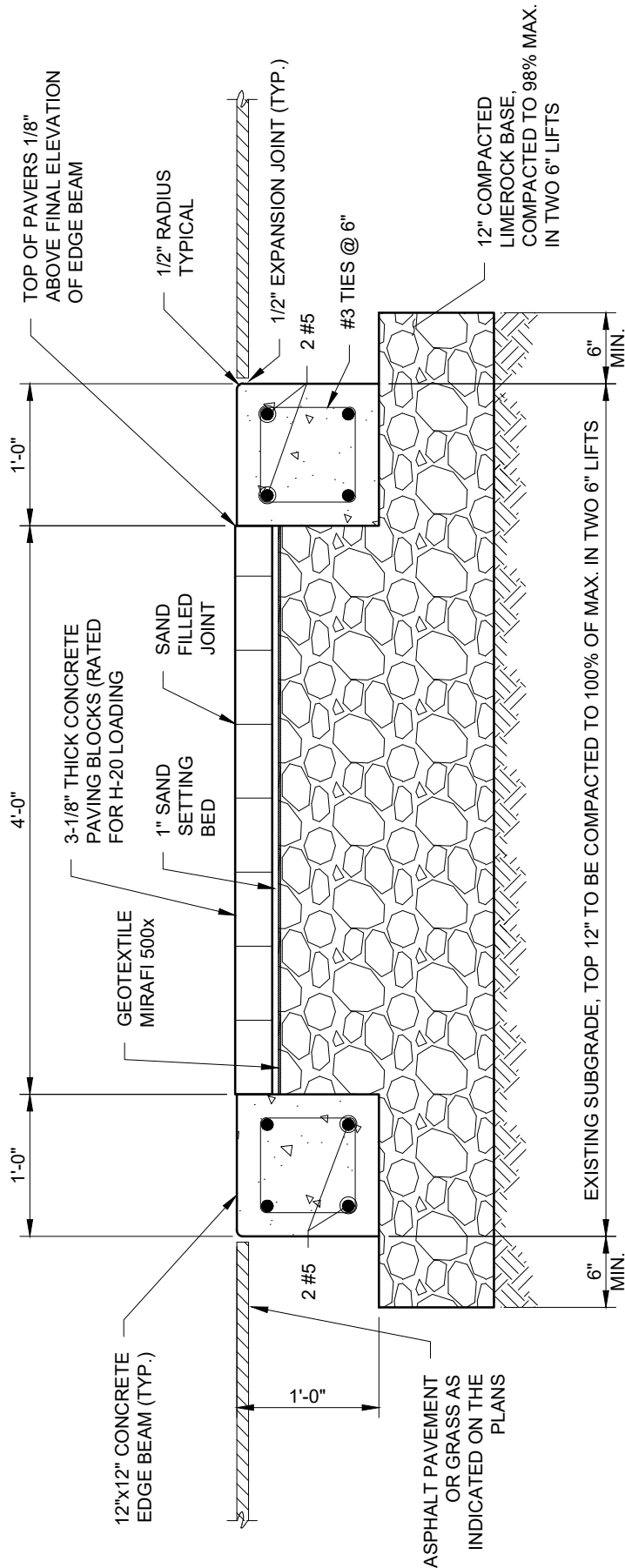
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Exhibit 3

DETAIL NO.
ROAD
038

REVISED:
2017/08/14

2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301



NOTES:

1. CONTRACTOR SHALL GIVE SPECIAL ATTENTION TO ACHIEVE COMPACTION REQUIREMENTS AT AREAS ADJACENT TO EDGE RESTRAINTS, CATCH BASINS, AND UTILITY STRUCTURES.
2. CONTRACTOR SHALL FORM THE INTENDED SURFACE PROFILE OF THE BASE SO THAT THE PAVERS CAN BE PLACED ON A UNIFORM THICKNESS OF BEDDING SAND.
3. SURFACE OF COMPACTED BASE SHALL BE SMOOTH WITH A SURFACE SMOOTHNESS MAXIMUM TOLERANCE OF $\pm 3/8"$ OVER A 10' STRAIGHTEDGE. UNEVEN AREAS OF THE LIMEROCK BASE SURFACE MUST BE MADE LEVEL PRIOR TO PLACING THE BEDDING SAND. BEDDING SAND SHALL NOT BE USED TO COMPENSATE FOR AN UNEVEN BASE.
4. CONTRACTOR SHALL ENSURE THAT ALL SURROUNDINGS CONTAINING EDGES, AND COMPACTED BASE ARE COMPLETED PRIOR TO INITIATING PAVEMENT INSTALLATION.
5. BEDDING SAND SHALL CONFORM TO ASTM C33 (CONCRETE SAND) WITH 0% PASSING No. 200 SIEVE. SPREAD BEDDING SAND AT OPTIMUM MOISTURE CONTENT EVENLY OVER BASE AND SCREED SAND TO AN EVEN THICKNESS OF 1" ($\pm 3/16"$). THE SCREED SAND SHALL NOT BE DISTURBED.
6. LAY PAVERS IN THE PATTERN INDICATED. MAINTAIN STRAIGHT JOINT LINES. JOINTS BETWEEN PAVERS SHALL BE CONSISTENT AND BETWEEN 1/16 TO 1/8 INCH WIDE.
7. AFTER AN AREA OF PAVERS ARE PLACED, IT SHALL BE COMPACTED WITH A VIBRATING PLATE COMPACTOR, EXERTING 5000 LBS. OF CENTRIFUGAL COMPACTION FORCE, WITH SURFACE CLEAN AND JOINTS UNSANDED. A MINIMUM OF THREE PASSES SHALL BE MADE. PLATE VIBRATOR SHALL HAVE A RUBBER MAT OR ROLLER FEET TO AVOID CHIPPING THE PAVERS.
8. JOINT SAND SHALL BE FINER THAN THE BEDDING SAND TO FACILITATE FILLING OF THE JOINTS. THIS CAN BE OBTAINED BY PASSING THE BEDDING SAND THROUGH A No. 8 SIEVE. AFTER THE FIRST PASS OF THE PLATE COMPACTOR, DRY JOINT SAND SHALL BE SWEEPED INTO THE JOINTS AND THE PAVERS COMPACTED. REPEAT THE PROCESS UNTIL THE JOINT ARE FILLED WITH SAND. WET SAND SHALL NOT BE INSTALLED.
9. CONTRACTOR SHALL LEAVE TOP OF PAVERS 1/8" ABOVE FINAL ELEVATION TO COMPENSATE FOR POSSIBLE MINOR SETTLING.
10. ALL CUTS TO BE VERTICAL AND TRUE, NO EDGE PIECE TO BE SMALLER THAN 1/3 FULL PAVEMENT SIZE.
11. GEOTEXTILE WOVEN MIRAFI 500X. FABRIC SHALL BE INSTALLED WITHOUT WRINKLES AND LAPPED 3" AT THEIR EDGES.



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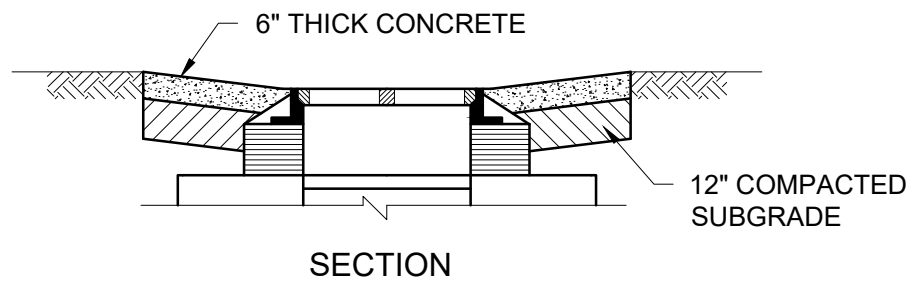
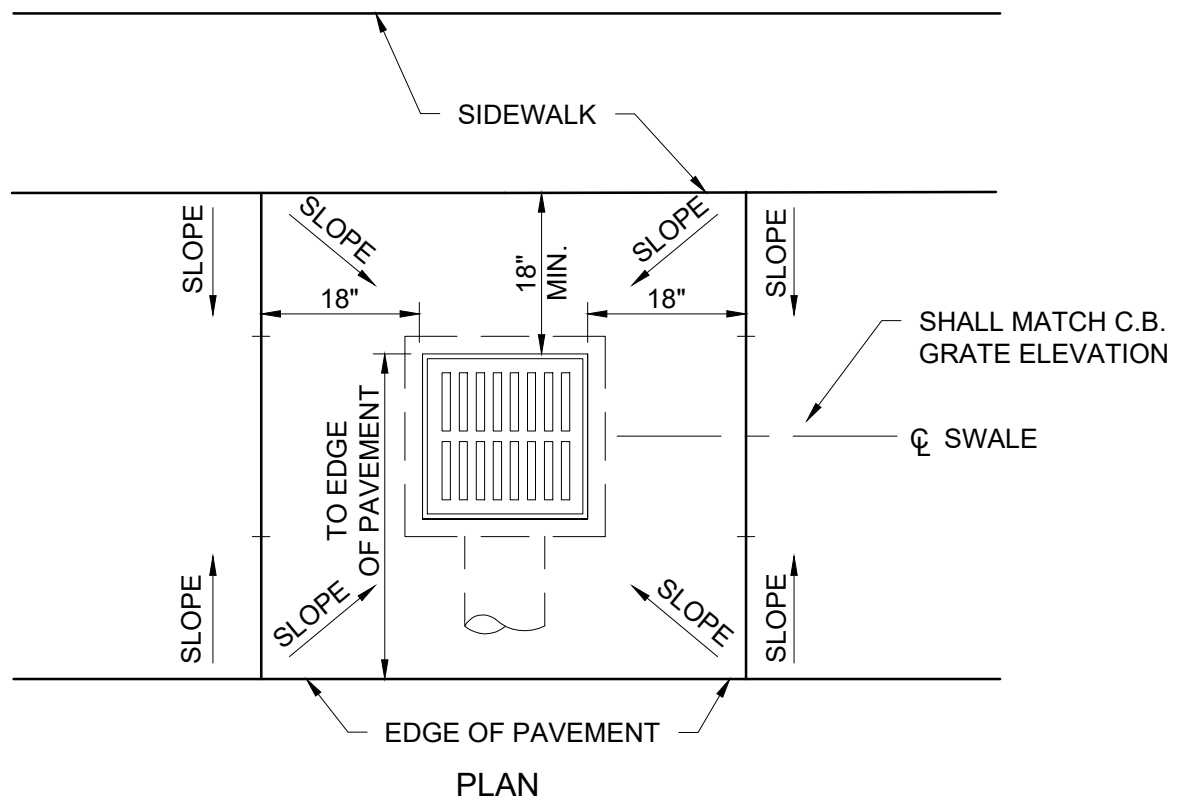
2/22/2021 9:55 AM, Fort Lauderdale, Florida 33301

DECORATIVE PAVERS IN ROADWAY

DETAIL NO.
ROAD
039

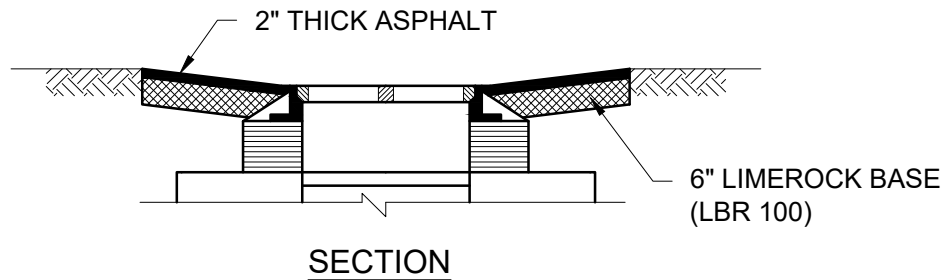
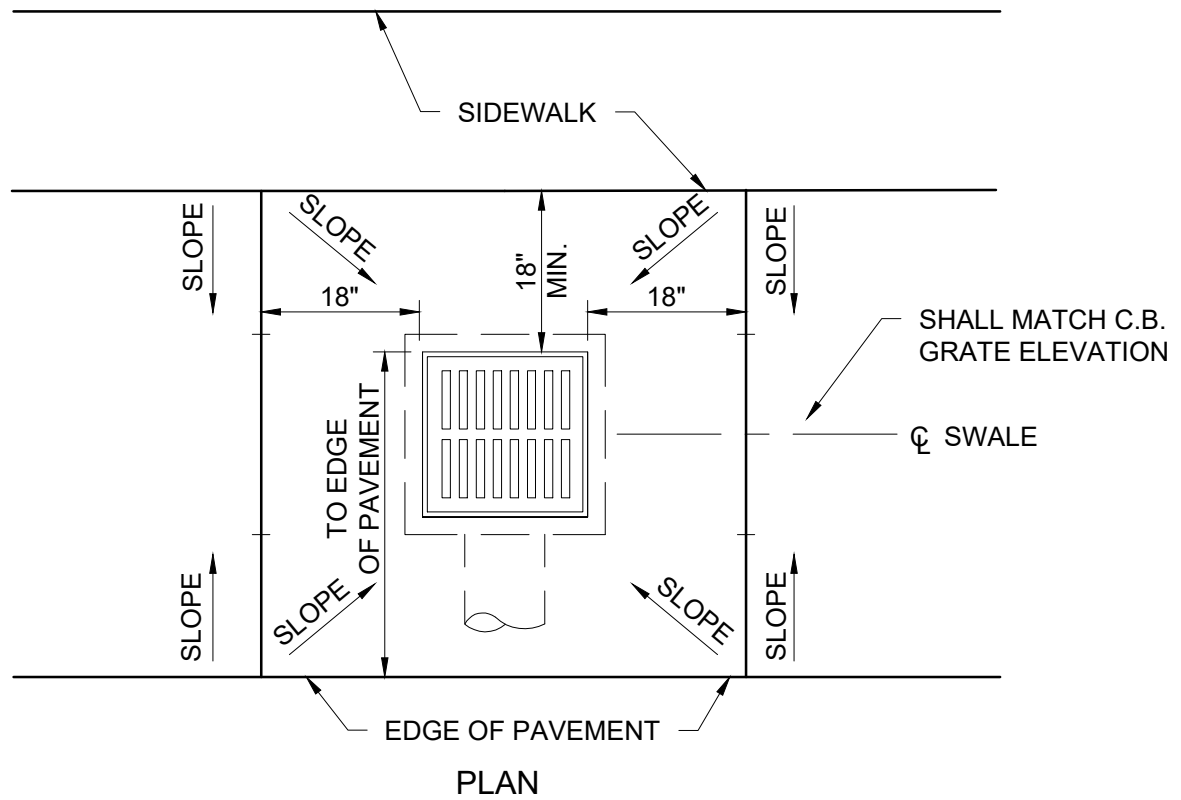
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Exhibit 3

REVISION
2017/08/1350



NOTES

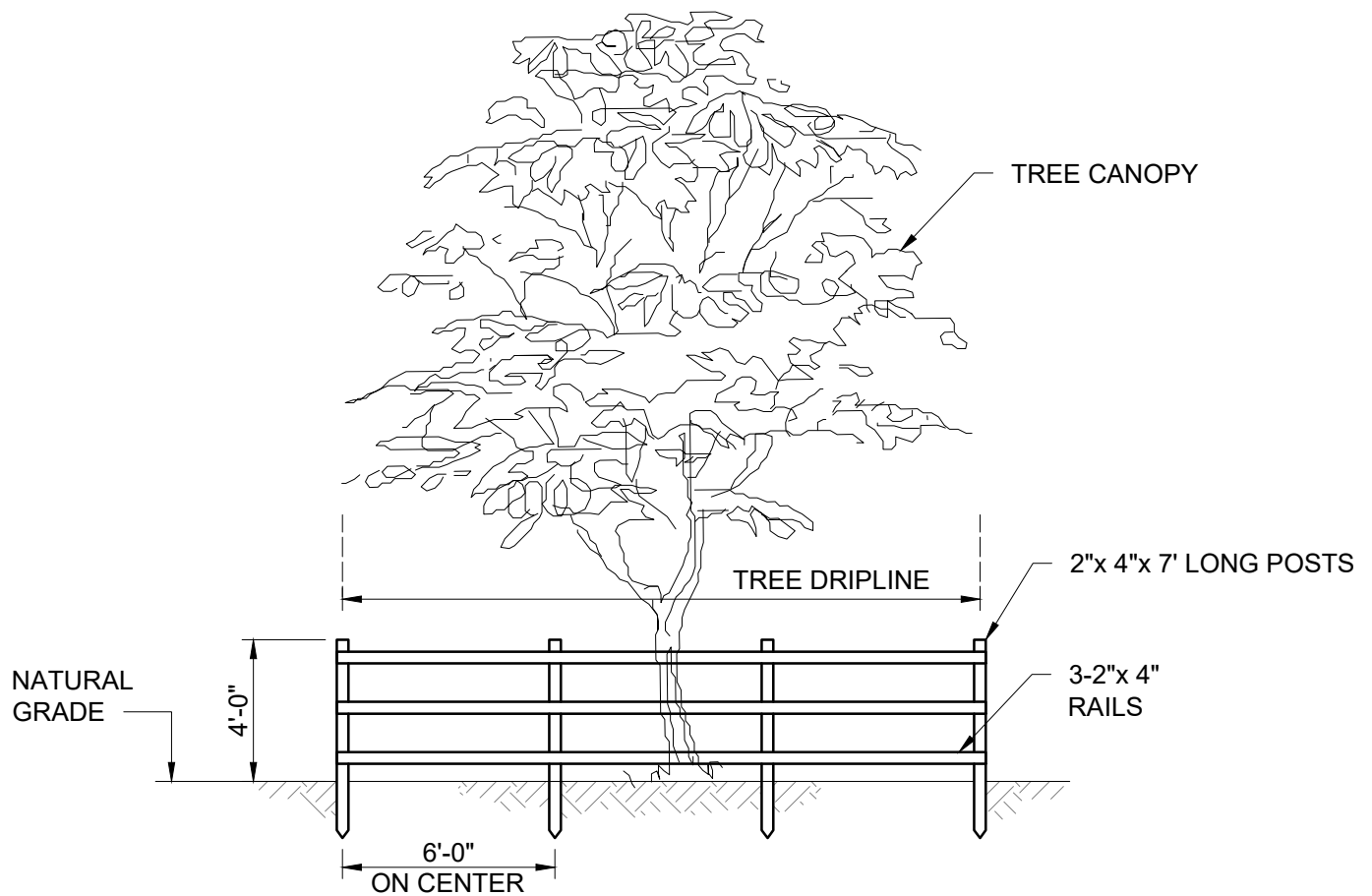
1. PAVING AROUND CATCH BASIN TO BE 6" THICK CONCRETE ON COMPACTED SUBGRADE
2. PAVE 18" WIDE (MIN.) APRON ON (3) SIDES. EXTEND FOURTH SIDE TO EDGE OF PAVEMENT.
3. IF DISTANCE FROM BACK OF CATCH BASIN TO FRONT OF SIDEWALK IS 3.0' OR LESS, EXTEND APRON TO FRONT OF SIDEWALK.



NOTES

1. PAVING AROUND CATCH BASIN TO BE 2" THICK ASPHALT TYPE SP 12.5 ON 6" LIMEROCK BASE (LBR 100).
2. PAVE 18" WIDE (MIN.) APRON ON (3) SIDES. EXTEND FOURTH SIDE TO EDGE OF PAVEMENT.
3. IF DISTANCE FROM BACK OF CATCH BASIN TO FRONT OF SIDEWALK IS 3.0' OR LESS, EXTEND APRON TO FRONT OF SIDEWALK.





NOTES:

1. BEFORE SITE CLEARING BEGINS PROVIDE NECESSARY MEASURES TO ASSURE SURVIVAL OF VEGETATION.
2. REMOVE BARRIERS AND RESTORE SURFACES PRIOR TO FINAL CLOSEOUT.



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TREE PROTECTION BARRIER

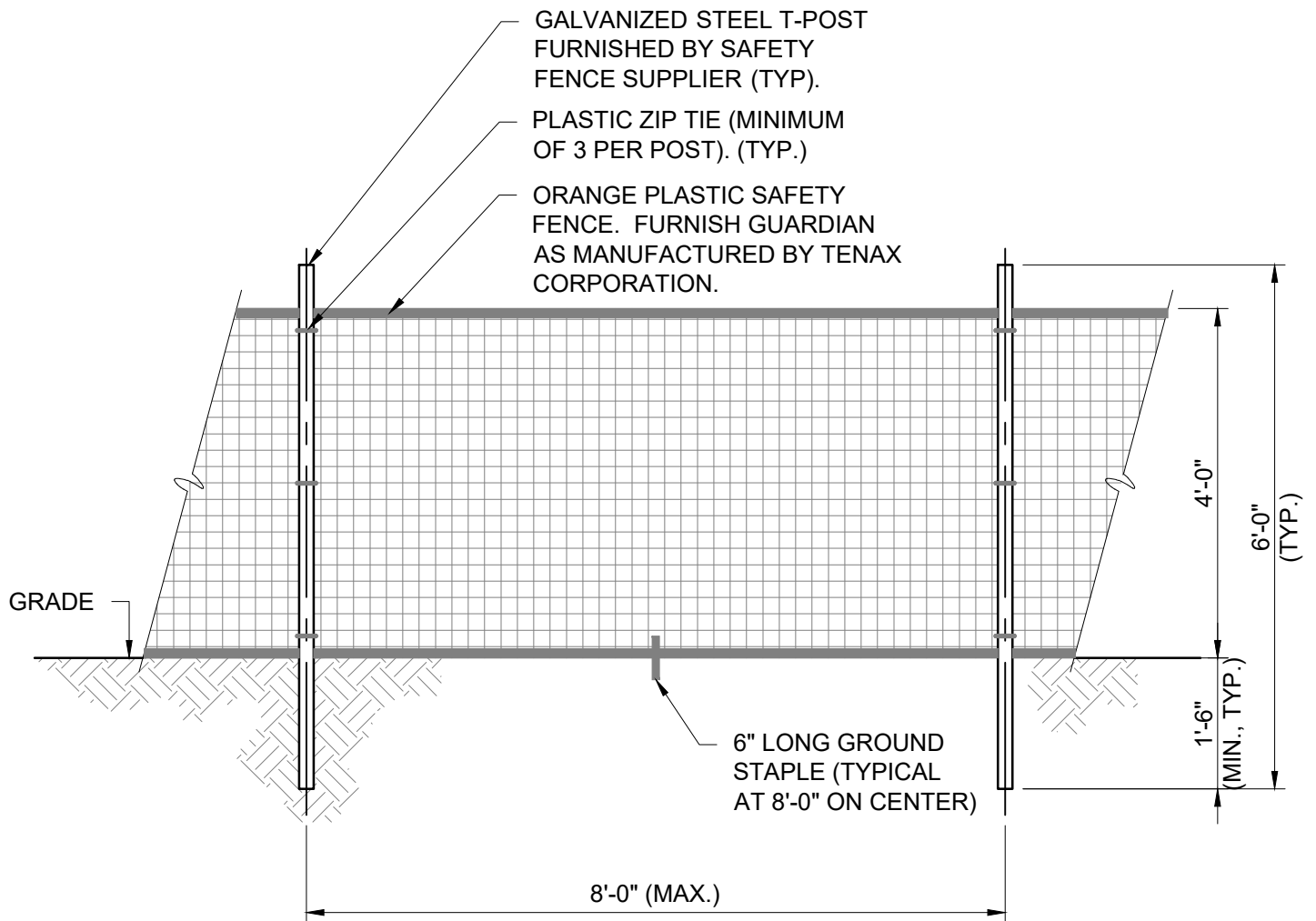
CAM 21-0345

Exhibit 3

DETAIL NO.
ROAD
101

REVISED:
2017/07/14



**NOTES:**

1. REBAR SHALL NOT BE USED FOR SUPPORTING THE FENCE.
2. LOOP THE ZIP TIES THROUGH THE AVAILABLE HOLES OR "TEETH" IN THE POST TO PREVENT THE FENCE FROM SLIDING DOWN THE POST.
3. PLASTIC ZIP TIES SHALL BE AS FOLLOWS:
 - A. MINIMUM WIDTH = 0.3 INCHES.
 - B. LENGTH = AS REQUIRED.
 - C. COLOR = BLACK WITH UV STABILIZER.



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

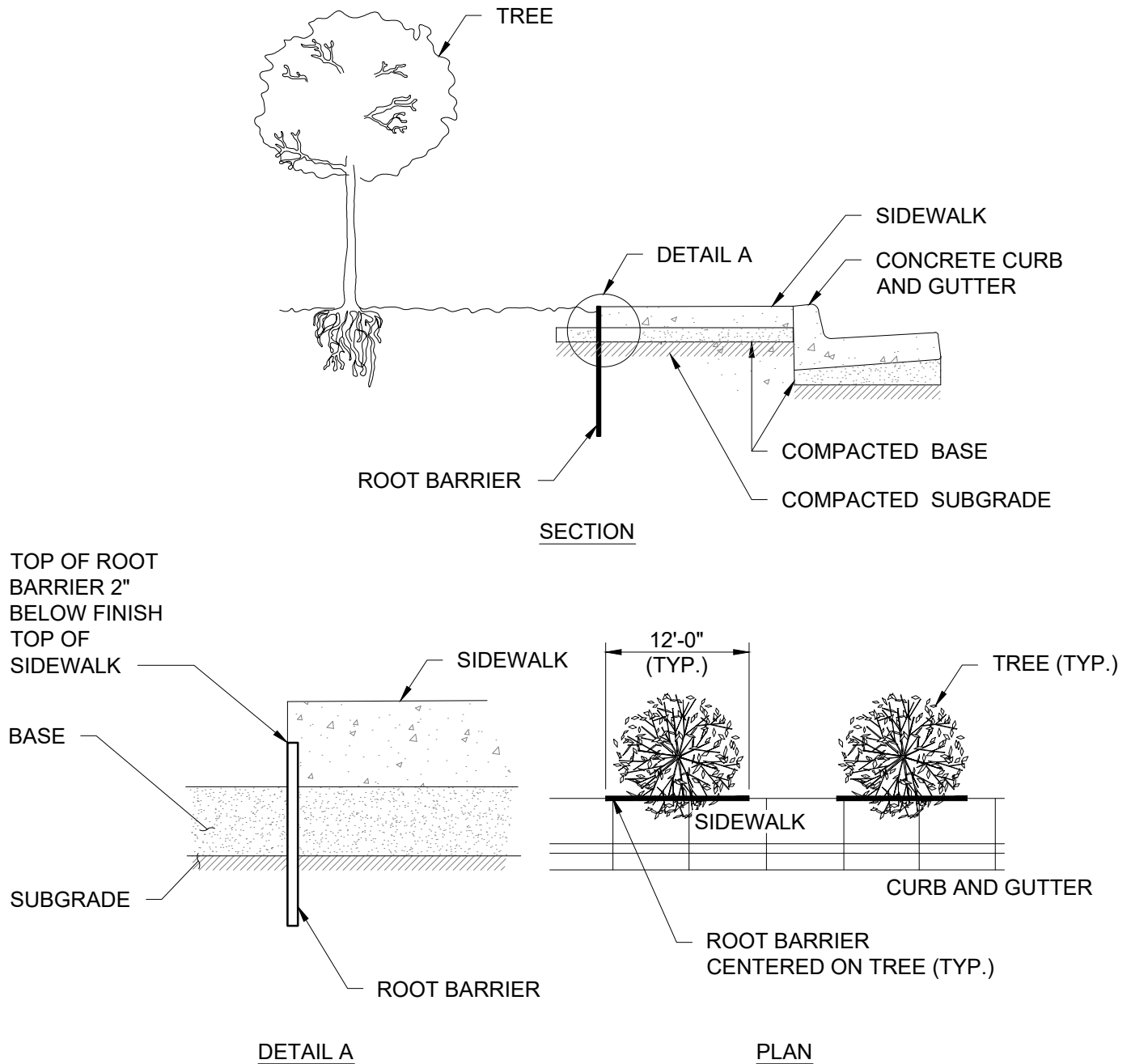
PLASTIC SAFETY FENCE

CAM 21-0345

Exhibit 3

DETAIL NO.
**ROAD
103**

REVISED:
2016/09/21

NOTES:

1. ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS WITHIN 8'-0" OF SIDEWALK OR AS INDICATED ON THE PLANS.
2. ROOT BARRIER SHALL BE UB 24-2 BY DEEPROOT, OR EQUAL. SUBMIT SHOP DRAWING.
3. TRENCH TO APPROPRIATE DEPTH FOR INSTALLATION OF ROOT BARRIER SO THAT TOP OF BARRIER IS 2" BELOW TOP OF SIDEWALK .
4. PLACE ROOT BARRIER IN TRENCH, VERTICAL RIBS MUST FACE TOWARD TREE ROOTS.
5. BACKFILL AND COMPACT.



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2/22/2021 9:55 AM Avenue, Fort Lauderdale, Florida 33301

ROOT BARRIER

CAM 21-0345

Exhibit 3

DETAIL NO.
ROAD
104

REVISED:
2016/09/24

ADDENDUM NO. 1

RFP No. 12470-416

TITLE: RE-BID Design Build pump Station B-4 Redundant Force Main

ISSUED: February 9, 2021

This addendum is being issued to make the following change(s):

1. Section 4, Submittal Requirements, 4.2.2 *Qualifications of the Firm*,

Business Structure**CHANGE FROM:**

Corporations, Joint Ventures, LLC or Partnerships – submit a copy indicating when the corporation was organized as a legal entity in the State of Florida, corporation number. ~~Shall be a minimum of ten (10) years to do business in the State of Florida.~~

CHANGE TO:

Corporations, Joint Ventures, LLC or Partnerships – submit a copy indicating when the corporation was organized as a legal entity in the State of Florida, corporation number.

All other terms, conditions, and specifications remain unchanged.

Penelope Burger,
Procurement Administrator

Company Name: _____
(please print)

Bidder's Signature: _____

Date: _____

Question and Answers for Bid #12470-416 - RE-BID Design Build Pump Station B-4 Redundant Force Main

Overall Bid Questions

Question 1

The RFP asks for resumes in Sections 4.2.2, 4.2.3 and 4.2.4. In which section does the City want resumes submitted? (Submitted: Jan 18, 2021 3:08:01 PM EST)

Answer

- You need to read the sections in its entirety to comprehend the material to make that determination. (Answered: Jan 22, 2021 5:54:41 PM EST)

Question 2

Does the City want a copy of the online BidSync forms included in the PDF submission? (Submitted: Jan 18, 2021 3:27:10 PM EST)

Answer

- City has no preference on how proposer uses BidSync electronic system (Answered: Jan 22, 2021 5:54:41 PM EST)

Question 3

Regarding Sub-consultants, the RFQ asks for "a summary of their background and qualifications, including but not limited to name of the sub-consultant, location of place of business, service(s) the sub-consultant will provide, license (if applicable), two (2) sub-consultant references, ownership, education, and experience."

If the subconsultants are not "the Project Manager, Design Manager, DBF or General Superintendent, Project Quality Control Manager, Scheduler/Project Controls Specialists, Project Health and Safety Manager (collectively, the "Team Members"), proposed to be utilized," do we include information and resumes for them? This would total more than seven (7) resumes. (Submitted: Jan 19, 2021 1:59:05 PM EST)

Answer

- Responses should seek to avoid information in excess of that requested, must be concise, and must specifically address the issues of the RFP. (Answered: Jan 22, 2021 5:54:41 PM EST)

Question 4

In order to provide a concise proposal, please advise where the following documents should be submitted. All are requested to be submitted in more than one section.

1. Sample Insurance Certificates: Requested in 4.2.2 Qualifications of the Firm and Section 4.2.8 Contract Forms
2. Copies of Business & Individual Professional Licenses, Certifications, etc.: Requested in 4.2.2 Qualifications of the Firm, 4.2.3 Qualifications of the Team and 4.2.4 Project Manager's Experience.
3. Organizational Chart: Requested in 4.2.2 Qualifications of the Firm and 4.2.4 Project Manager's Experience; it is not requested in 4.2.3 Qualifications of the Team, which would make more sense.
4. Resumes for seven (7) Key Personnel: Requested in 4.2.2 Qualifications of the Firm, 4.2.3 Qualifications of the Team and 4.2.4 Project Manager's Experience.
5. Workload of the Firm: Requested in 4.2.2 Qualifications of the Firm and 4.2.5 Project Methodology & Approach.
6. Firms Past Experience (Projects): Requested in 4.2.2 Qualifications of the Firm and 4.2.4 Project Manager's Experience and a minimum of three are also requested in 4.2.6 References. Do you want projects duplicated if they apply to more than one of these sections? (Submitted: Jan 19, 2021 2:01:18 PM EST)

Answer

- See answer to question 1 above. (Answered: Jan 22, 2021 5:54:41 PM EST)

Question 5

Which firms were invited to participate in this Bid? (Submitted: Jan 22, 2021 2:13:50 PM EST)

Answer

- Firms that participated in the original solicitation. (Answered: Jan 26, 2021 9:13:58 AM EST)

Question 6

Is Professional Liability insurance required? (Submitted: Feb 5, 2021 10:51:08 AM EST)

Answer

- Section 2, Special Conditions, Insurance Requirements, lists all insurance liability requirements. (Answered: Feb 8, 2021 10:32:06 AM EST)