



FIBER INSTALLATION

INVITATION FOR BID # TS-25-14

Issuance of Solicitation: Tuesday, August 12, 2025
Questions Due Date: Monday, August 25, 2025
Bid Submission Deadline: Tuesday, September 9, 2025

THE CITY OF PEMBROKE PINES
PROCUREMENT DEPARTMENT
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020

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SECTION 1 - NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

IFB # TS-25-14

Fiber Installation

Solicitations may be found on the City of Pembroke Pines website under the Procurement Department at <http://www.ppines.com/index.aspx?NID=667>, and may be downloaded directly from the OpenGov platform at <https://procurement.opengov.com/portal/pembrokepines>.

For Technical Support, proposers can reach the OpenGov Service Desk between 7:00 am to 10:00 pm from Monday through Friday via the following methods:

- Chat (preferred method): Click the button in the lower right-hand corner of the portal.
- E-mail: procurement-support@opengov.com
- Phone: 1 (650) 336-7167

If additional help is needed with downloading the solicitation package please contact the Procurement Department at (954) 518-9020 or by email at purchasing@ppines.com. The Procurement Department hours are between 7:00 am to 6:00 pm on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, FL 33025.

Bidders shall submit all questions regarding this bid via the City's e-Procurement Portal, located at <https://procurement.opengov.com/portal/pembrokepines>. Please note the deadline for submitting questions. All answers will be posted on the City's e-Procurement Portal. Bidders may also click "Follow" on this bid to receive an email notification when answers are posted. It is the bidder's responsibility to check the portal for updates. Only written responses issued through the OpenGov platform will be considered official for interpretations or clarifications.

Proposals will be accepted until 2:00 pm on Tuesday, September 9, 2025, electronically at <https://procurement.opengov.com/portal/pembrokepines/projects/185362>.

Bid Opening: The sealed electronic proposals will be publicly opened at 2:30 pm, on the bid due date, by the City Clerk's Office, in the **City Clerk's Office Conference Room located on the 4th Floor in the Charles F. Dodge City Center**/City Hall Administration Building, located at 601 City Center Way, Pembroke Pines, Florida, 33025.

Virtual Bid Opening: In light of public health concerns and to ensure accessibility for all, the City encourages interested parties and the public to participate virtually via live streaming instead of attending the meeting in person. As a result, meetings may be a combination of in-person and virtual, all as provided by law. To virtually attend the bid opening, please use the Cisco Webex Meetings platform.

Virtual Meeting Details:



City of Pembroke Pines

- WebEx Meeting Link: <https://ppines.webex.com/meet/purchasing>
- Cisco Webex Meeting Number: 717 019 586
- Join by Phone Number: +1-408-418-9388

The public may download the **Cisco Webex Meetings app** from <https://www.webex.com/downloads.html/>.

To ensure an efficient meeting process, participants are requested to mute their audio and camera during the meeting. While the public is welcome to attend the virtual bid opening, **please note that active participation and commenting will not be allowed during the proceedings.**

For further information about the bid opening or assistance in accessing the virtual meeting, please contact:

Ivan Ospinal or other Procurement Staff in the Procurement Department
City of Pembroke Pines
8300 South Palm Drive,
Pembroke Pines, FL 33025
(954) 518-9020 or 954-518-9020
purchasing@ppines.com



SECTION 2 - GENERAL PROJECT INFORMATION & TIMELINE

2.1 Project Timeline

The work shall be completed within 120 calendar days from issuance of the City's Notice to Proceed (NTP), with an estimated start date of **October 1, 2025**.

2.2 Tentative Schedule of Events

Issuance of Solicitation (Posting Date):	August 12, 2025
Pre-Bid Meeting (Mandatory):	August 21, 2025, 10:00am Fire Station 89 - 13000 Pines Blvd, Pembroke Pines, FL 33027
Question Due Date:	August 25, 2025, 11:30pm
Issuance of Final Answers to Questions:	August 28, 2025
Bid Submission Deadline:	September 9, 2025, 2:00pm
Bid Opening:	Will be held at 2:30 pm on the day of bid submissions are due.
Evaluations by Staff:	To Be Determined (TBD)

2.3 Mandatory Pre-Bid Meeting/Site Visit

There will be a **MANDATORY** scheduled pre-bid meeting on **Thursday, August 21, 2025 at 10:00 am**. Meeting location will be at the **Fire Station 89 - 13000 Pines Blvd, Pembroke Pines, FL 33027**

- A. **Proof of Attendance:** Vendors may be required to sign in at any of the meetings to show proof of attendance. It is the **Vendor's** responsibility to make sure that they sign in at the meeting.

2.4 Follow-Up Pre-Bid Meeting(s)

Follow-Up Meetings: In the event that a Vendor cannot attend the scheduled pre-bid meeting, or if a Vendor would like a follow up visit to the site, they may request a site visit by contacting **Ivan Ospinal** at **(954) 518-9020**. We urge all Vendors to attend the scheduled meeting, as a separate or follow-up meeting may not be afforded to the requester due to scheduling and availability of staff to assist with any additional meetings. In addition, if making a request for a separate or follow-up meeting, Vendors are urged to make these requests as early as possible.



2.5 Estimated Project Cost

\$100,000

2.6 Grant/Federal Funding

Not applicable for this project.

2.7 Proposal Security/Bid Bond

A Proposal Security shall not be required for this project.

2.8 Payment and Performance Bonds

Payment and Performance Bonds shall not be required for this project.



SECTION 3 - PURPOSE AND BACKGROUND

3.1 Purpose

The City of Pembroke Pines is seeking bids from qualified firms, hereinafter referred to as the Contractor, to upgrade to fiber optic cabling at two locations, replacing the existing over-the-air connection, in accordance with the terms, conditions, and specifications contained in this solicitation.

This project is designed to enhance network reliability, speed, and bandwidth between City facilities through the installation of fiber optic cabling at two locations. This upgrade will provide secure, high-performance connectivity to support essential City operations, communications, and future technology demands. It will replace the current over-the-air connection and related circuits, improving service delivery and operational efficiency.

This bid package includes two different locations:

- Fire Station 79 to Soccer Park
- Fire Station 89 to Pines Art Center

Please note that vendors may choose to submit proposals for both locations or only one, based on their capacity and interest.

If submitting for only one location, please clearly indicate which one in your proposal.

3.2 Background

Pembroke Pines, Florida, ranked as the eleventh largest city among the state's four hundred plus municipalities and the second largest in Broward County, maintains a welcoming small-town ambiance that resonates with its residents. Located conveniently in southwest Broward County, the city provides seamless access to major highways, employment centers, entertainment venues, parks, golf courses, and a diverse array of dining and shopping options.

With a population of approximately 170,000 residents spread across 32.68 square miles, Pembroke Pines is renowned as one of the best cities to live in America. The city boasts 28 superior parks, lush landscaping, and a distinctive South Florida charm that contributes to its natural beauty. Notably recognized as 2024's Best Place to Raise a Family in Florida, and 2024's Best City of Hispanic Entrepreneurs by WalletHub, Pembroke Pines also earned a place as the on Money Magazine's esteemed Best Places to Live list in 2014, as the sole Florida representative, ranking in at #32 in the nation.

Incorporated in 1960, Pembroke Pines is celebrated as a safe and desirable community, having received accolades such as the All-America City designation. The city's commitment to arts and culture, exceptional schools, diverse population, numerous parks, and forward-thinking approach in an ever-evolving world make it a standout destination.



Pembroke Pines is also the home to the largest municipal-run charter school system in the nation, serving over 6,000 students across five separate campuses. The City's award-winning charter school system is located in the Broward County School District, which is the sixth largest school district in the nation.



SECTION 4 - SCOPE OF WORK

4.1 General Summary

Below is the general list of the services required for the installation. It is not intended to be complete.
Fire Station 79 to Soccer Park - Refer to Attachment A City FDOT Approved Plans

Fire Station 89 to Pines Art Center - Refer to Attachment B - City Approved Plans - Complete Project Limits; Attachment C - City Approved Plans - Pines BLVD Crossing Only

The project involves the following generalized descriptions of work:

- **Project Routes:** Install underground fiber optic cabling from Fire Station 79 to West Pines Soccer Field (Project 1) and from Fire Station 89 to Pines Art Center (Project 2) to improve inter-facility communications.
- **Construction Method:** Utilize directional boring to install 1.5" HDPE conduits at depths ranging from 36" to 120", tailored to roadway and jurisdiction requirements.
- **Handholes & Utility Avoidance:** Install multiple 30"x48"x36" handholes for fiber access and slack management, with conduit routes determined by soft digs and Sunshine 811 utility locates.
- **Compliance Standards:** Ensure full compliance with City of Pembroke Pines and FDOT construction standards, including ADA accessibility and erosion control.
- **Site Restoration:** Fully restore all disturbed areas including pavement, sidewalks, and landscaping to pre-construction condition.

4.2 Locations

- Fire Station 89 - 13000 Pines Blvd, Pembroke Pines, FL 33027 to Pines Art Center (Walter C Young) at 901 NW 129Th Ave, Pembroke Pines, FL 33028
- Fire Station 79 - 19900 Pines Blvd, Pembroke Pines, FL 33029 to West Pines Soccer Bldg. at 350 SW 196th Ave, Pembroke Pines, FL 33029

4.3 Notice Regarding Mandatory Pre-Bid Site Visit Requirements

Please note that attendance at the mandatory pre-bid site visit is required in order to be eligible to submit a bid. If you are unable to attend the scheduled site visit, you may request a second site visit; however, approval and scheduling will depend on staff availability.



An attendance sheet will be provided and must be signed at each site as proof of attendance. Vendors who do not attend either the original or an approved alternate site visit will not be eligible to participate in the bid.



SECTION 5 - PRICE PROPOSAL / BID TABLE

The vendor must provide their pricing electronically through the designated line items listed on the Bid Sheet/Pricing Table via the City's e-Procurement portal on OpenGov.

Vendor Notes: The bid tables includes a “Vendor Notes” column for any additional comments regarding the requested line item(s). A comment is preferred in the “Vendor Notes” column. If the vendor does not need to submit any comments, they may leave it blank or enter N/A or similar.

Payment & Performance Bonds: The table includes a section for the vendor to submit pricing for Payment & Performance Bonds. If the total cumulative base proposal amount does not exceed \$200,000 and a Payment and Performance Bond is not required, please enter “0” on the “If Applicable, Cost for Payment and Performance Bond” column for each line item.

Primary Responses: The initial Bid Table is for the primary responses so that the vendors can submit the requested goods and/or services.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
1-1	Lump Sum Cost for Fiber Installation - Fire Station 79 to Soccer Park	1	Lump Sum			
TOTAL						

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
2-1	Lump Sum Cost for Fiber Installation - Fire Station 89 to Pines Art Center	1	Lump Sum			
TOTAL						



SECTION 6 - SUBMITTAL DOCUMENTS

Bids must be submitted electronically at <https://procurement.opengov.com/portal/pembrokepines> on or before **2:00 pm on Tuesday, September 9, 2025**. Please note vendors should be registered on OpenGov under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation. In addition, the vendor must complete the required documents in this section and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the <https://procurement.opengov.com/portal/pembrokepines> website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

Prospective proposers interested in responding to this solicitation are requested to provide all of the applicable information listed in this section. Submittals that do not respond completely to all of the requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.

1 CONFIRMATION TO BIND

- 1.1 I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.*

☐ Please confirm

*Response required

2 CERTIFICATION OF INSURANCE COMPLIANCE AND INTENT TO PROCURE REQUIRED COVERAGE

NOTE: Vendors are not required to purchase any additional insurance in order to submit a bid. However, they must certify that they either currently hold, or are able and willing to obtain, all required insurance coverages, endorsements, and limits prior to award and execution of the contract.

- 2.1 I certify that, if awarded this contract, I will be required to obtain and maintain all insurance policies as detailed in the INSURANCE REQUIREMENTS Section of this solicitation before any work may commence, and throughout the life of the contract.*

☐ Please confirm

*Response required

- 2.2 Do you confirm that you will only use insurance carriers licensed to do business in the State of Florida and rated no less than "A" as to management, and no less than "Class VI" as to financial strength by A.M. Best, and that you understand all endorsements required (e.g., Additional Insured, Waiver of Subrogation, etc.) must be included?*

☐ Yes

☐ No



*Response required

2.3 Do you currently carry insurance policies that meet or exceed the minimum requirements outlined in the INSURANCE REQUIREMENTS section of this solicitation?*

☐ Yes

☐ No

*Response required

When equals "Yes"

2.3.1 Please upload your current certificate(s) of insurance that demonstrate compliance with the insurance requirements outlined in this solicitation.*

*Response required

When equals "No"

2.3.2 Please upload documentation showing that you have obtained a letter from your insurance broker or carrier, such as a Letter of Intent to Insure, Evidence of Insurability, or a Conditional Certificate of Insurance.*

Documentation should show that:

- You can obtain the required insurance.
- The limits and types of coverage will meet the INSURANCE REQUIREMENTS outlined in the solicitation.
- You will provide a COI upon contract award.

*Response required

When equals "No"

2.3.3 Please upload your current certificate(s) of insurance.*

*Response required

2.4 Do you believe you are exempt from one or more insurance requirements (e.g., Workers' Compensation)?*

☐ Yes

☐ No

*Response required

When equals "Yes"

2.4.1 Please upload written documentation requesting an exemption on your company letterhead, subject to City approval.*

*Response required

2.5 Do you plan on using subcontractors for this project?*

☐ Yes



☐ No

*Response required

When equals "Yes"

2.5.1 Do you acknowledge that all subcontractors must also carry the same insurance or be covered under your policy, and that proof of such coverage must be provided to the City?*

☐ Yes

☐ No

*Response required

3 REFERENCE # 1

The minimum experience for this project is **five (5) years**. Provide specific examples of similar experience conducting **licensed** work of equal or similar scope of work, preferably delivered by the proposed team members. A **minimum of 3** references should be from the last **five years** and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications. In this section you will have the ability to enter information for 5 different references including their contact details and specific project information.

Please note that the City prefers references who are not current employees of the City of Pembroke Pines, as we generally do not contact our own employees for reference checks.

Proposers are advised to confirm that:

- A. Each reference provided by the Respondent has up to date contact persons and contact information;
- B. The contact person provided for each reference is someone who has personal knowledge of the Proposer's performance during the referenced project; and
- C. The contact person for each reference has been contacted by the Proposer regarding this specific bid submittal and such person confirmed their willingness to serve as a reference.

3.1 Reference Contact Information - Name of Firm, City, County or Agency*

*Response required

3.2 Reference Contact Information - Reference's Business Address*

*Response required

3.3 Reference Contact Information - Reference's Contact Name & Title*

*Response required



3.4 Reference Contact Information - Reference's E-mail Address*

*Response required

3.5 Reference Contact Information - Reference's Phone Number*

*Response required

3.6 Project Information - Was your firm the prime contractor for the listed project?*

☐ Yes

☐ No

*Response required

3.7 Project Information - Name of Contactor Performing the Work*

*Response required

3.8 Project Information - Name and location of the project*

*Response required

3.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

*Response required

3.10 Project Information - Project Duration*

*Response required

3.11 Project Information - Completion (Anticipated) Date*

*Response required

3.12 Project Information - Size of Project*

*Response required

3.13 Project Information - Cost of Project*

*Response required

4 REFERENCE # 2

4.1 Reference Contact Information - Name of Firm, City, County or Agency*

*Response required

4.2 Reference Contact Information - Reference's Business Address*

*Response required

4.3 Reference Contact Information - Reference's Contact Name & Title*

*Response required

4.4 Reference Contact Information - Reference's E-mail Address*

*Response required

4.5 Reference Contact Information - Reference's Phone Number*

*Response required



4.6 Project Information - Was your firm the prime contractor for the listed project?*

☐ Yes

☐ No

*Response required

4.7 Project Information - Name of Contactor Performing the Work*

*Response required

4.8 Project Information - Name and location of the project*

*Response required

4.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

*Response required

4.10 Project Information - Project Duration*

*Response required

4.11 Project Information - Completion (Anticipated) Date*

*Response required

4.12 Project Information - Size of Project*

*Response required

4.13 Project Information - Cost of Project*

*Response required

5 REFERENCE # 3

5.1 Reference Contact Information - Name of Firm, City, County or Agency*

*Response required

5.2 Reference Contact Information - Reference's Business Address*

*Response required

5.3 Reference Contact Information - Reference's Contact Name & Title*

*Response required

5.4 Reference Contact Information - Reference's E-mail Address*

*Response required

5.5 Reference Contact Information - Reference's Phone Number*

*Response required

5.6 Project Information - Was your firm the prime contractor for the listed project?*

☐ Yes

☐ No

*Response required



5.7 Project Information - Name of Contactor Performing the Work*

*Response required

5.8 Project Information - Name and location of the project*

*Response required

5.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for*

*Response required

5.10 Project Information - Project Duration*

*Response required

5.11 Project Information - Completion (Anticipated) Date*

*Response required

5.12 Project Information - Size of Project*

*Response required

5.13 Project Information - Cost of Project*

*Response required

6 REFERENCE # 4

6.1 Reference Contact Information - Name of Firm, City, County or Agency

6.2 Reference Contact Information - Reference's Business Address

6.3 Reference Contact Information - Reference's Contact Name & Title

6.4 Reference Contact Information - Reference's E-mail Address

6.5 Reference Contact Information - Reference's Phone Number

6.6 Project Information - Was your firm the prime contractor for the listed project?

☐ Yes

☐ No

6.7 Project Information - Name of Contactor Performing the Work

6.8 Project Information - Name and location of the project

6.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for

6.10 Project Information - Project Duration

6.11 Project Information - Completion (Anticipated) Date

6.12 Project Information - Size of Project

6.13 Project Information - Cost of Project

7 REFERENCE # 5



- 7.1 Reference Contact Information - Name of Firm, City, County or Agency
- 7.2 Reference Contact Information - Reference's Business Address
- 7.3 Reference Contact Information - Reference's Contact Name & Title
- 7.4 Reference Contact Information - Reference's E-mail Address
- 7.5 Reference Contact Information - Reference's Phone Number
- 7.6 Project Information - Was your firm the prime contractor for the listed project?
- ☐ Yes
- ☐ No
- 7.7 Project Information - Name of Contactor Performing the Work
- 7.8 Project Information - Name and location of the project
- 7.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for
- 7.10 Project Information - Project Duration
- 7.11 Project Information - Completion (Anticipated) Date
- 7.12 Project Information - Size of Project
- 7.13 Project Information - Cost of Project

8 PROJECT DOCUMENTS

- 8.1 PROPOSERS BACKGROUND INFORMATION FORM*
- a. Please download the attached document, complete all required fields, and upload the completed form here.
- [Proposers Background Inform...](#)

*Response required

9 SWORN STATEMENT ON PUBLIC ENTITY CRIMES UNDER FLORIDA STATUTES CHAPTER 287.133(3)(a)

- 9.1 SWORN STATEMENT ON PUBLIC ENTITY CRIMES FORM*
- a. Please download the attached document, complete all required fields, and upload the completed form here.
- [Sworn Statement on Public E...](#)

*Response required

- 9.2 Public Entity Crimes Status*
- Which option did you select on the Sworn Statement on Public Entity Crimes Form:
 - A) Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.



- B1) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)
- B2) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)
- B3) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND The person or affiliate has not been placed on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

☐ A) No convictions.

☐ B1) Convicted, final order did not place on the convicted vendor list.

☐ B2) Convicted, listed, then removed.

☐ B3) Convicted, not listed, action pending.

*Response required

9.3 Did you select option B1 or B2 above?*

☐ Yes

☐ No

*Response required

When equals "Yes"



9.3.1 Please upload a copy of the final order issued by the hearing officer of the State of Florida, Division of Administrative Hearings.*

*Response required

9.4 Did you select option B3 above?*

☐ Yes

☐ No

*Response required

When equals "Yes"

9.4.1 Please describe any action taken by or pending with the Department of General Services.*

*Response required

10 EQUAL BENEFITS CERTIFICATION FOR DOMESTIC PARTNERS AND ALL MARRIED COUPLES

10.1 EQUAL BENEFITS CERTIFICATION FORM*

a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Equal Benefits Certificatio...](#)

*Response required

10.2 Equal Benefits Status*

▪ Which option did you select on the Equal Benefits Certification Form:

- A. Contractor currently complies with the requirements of this section; or
- B. Contractor will comply with the conditions of this section at the time of contract award; or
- C. Contractor will not comply with the conditions of this section at the time of contract award; or
- D. Contractor does not comply with the conditions of this section because of the following allowable exemption (Check only one box below):
 - 1. The Contractor does not provide benefits to employees' spouses in traditional marriages;
 - 2. The Contractor provides an employee the cash equivalent of benefits because the Contractor is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, the Contractor shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state



the efforts taken to provide such benefits and the amount of the cash equivalent. Cash equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse;

- 3. The Contractor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated supervised or controlled by or in conjunction with a religious organization, association, or society;
- 4. The Contractor is a governmental agency;

- ☐ A) Contractor currently complies.
- ☐ B) Will comply by contract award.
- ☐ C) Will not comply.
- ☐ D1) Does not comply due to an exemption: No spousal benefits for anyone.
- ☐ D2) Does not comply due to an exemption: Provides cash equivalent after trying.
- ☐ D3) Does not comply due to an exemption: Religious or related nonprofit.
- ☐ D4) Does not comply due to an exemption: Government agency.

*Response required

10.3 Did you select option D2 above?*

- ☐ Yes
- ☐ No

*Response required

When equals "Yes"

10.3.1 Please upload a notarized affidavit detailing the reasonable efforts made to provide benefits to employees' Domestic Partners or spouses, along with the amount of the cash equivalent provided.*

*Response required

11 DRUG-FREE WORKPLACE CERTIFICATION

11.1 VENDOR DRUG FREE WORKPLACE CERTIFICATION FORM*

- a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Vendor Drug-Free Workplace ...](#)

*Response required

11.2 Drug-Free Status*

- ☐ Complies fully.



☐ Does not comply.

*Response required

12 STANDARD DOCUMENTS

The following documents are standard documents that the City generally requires for every solicitation. As a result, we recommend vendors to keep these documents updated and readily available so that they can be easily uploaded for each project that the vendor would like to participate in. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s).

12.1 NON-COLLUSIVE AFFIDAVIT*

- a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Non-Collusive Affidavit.pdf](#)

*Response required

12.2 SCRUTINIZED COMPANY CERTIFICATION*

- a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Scrutinized Company Certifi...](#)

*Response required

12.3 E-VERIFY SYSTEM CERTIFICATION*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- b. Effective January 1, 2021, pursuant to Section 448.095, Florida Statutes, the City may not enter into a contract with a vendor/contractor/subcontractor unless that vendor/contractor/subcontractor is registered with and uses the E-Verify system administered by the U.S. Department of Homeland Security ("DHS").
- c. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.

- [E-Verify System Certificati...](#)

*Response required



12.4 HUMAN TRAFFICKING AFFIDAVIT*

- a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Human Trafficking Affidavit...](#)

*Response required

13 VENDOR REGISTRATION

13.1 Do you currently have a City of Pembroke Pines Vendor Number registered in the PaymentWorks System?*

- The City of Pembroke Pines utilizes OpenGov as its e-Procurement platform for solicitation and bid submission purposes. However, please be advised that **vendor registration for onboarding and processing payments is handled separately** through the City's Accounts Payable Division using **PaymentWorks**, a secure online vendor management platform.
- All vendors that will be submitting invoices and requiring payments from the City are required to register on the PaymentWorks platform. If the vendor is not currently registered with the City via PaymentWorks and does not have a Vendor Number, the City will have to invite the vendor to register.
- For formal solicitations such as this project, the Procurement Department will send PaymentWorks registration invitations to vendor(s) who are under active consideration for award. Please be aware that not all vendors who submit proposals will receive an invitation, in order to manage system usage and avoid onboarding vendors who are unlikely to receive payments from the City.
- Invitations will typically be sent to the contact listed on the submitted Vendor Information Form.

☐ Yes

☐ No

*Response required

When equals "Yes"

13.1.1 What is your Vendor Number?*

*Response required

13.2 VENDOR INFORMATION FORM*

- a. Please download the attached document, complete all required fields, and upload the completed form here.

- [Vendor Information Form.pdf](#)



*Response required

13.3 FORM W-9 (REVISED MARCH 2024)*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- b. Note - Please use the March 2024 version of the form as previously dated versions of this form may delay the processing of any payments to the selected vendor.

- [Form W-9 \(Rev March 2024\).pdf](#)

*Response required

14 OPTIONAL DOCUMENTATION

14.1 TRADE SECRETS

- a. The Proposer's response to this 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.
- b. 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.
- c. 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. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.



- d. 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.

14.2 FINANCIAL STATEMENTS

- a. The City is **NOT** requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.
- b. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

14.3 ALTERNATIVES

- a. If you are submitting an alternative product, please upload any related information in this section (such as specification sheets, etc.).
- b. In addition, pursuant to the "**Brand Names**" Section included in the [GENERAL TERMS AND CONDITIONS](#) Section if and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Proposers shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor's responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

14.4 ADDITIONAL INFORMATION

- a. Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.



14.5 PROFESSIONAL LICENSES

- a. If applicable, please upload any professional licenses that may be required to perform the services outlined in the solicitation.

15 VENDOR CLASSIFICATION

15.1 Is your firm a Local Pembroke Pines Vendor (LPPV) and Local Broward County Vendor (LBCV)?*

- a. The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:
1. **"Local Pembroke Pines Vendor"** shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines, **OR**;
 2. **"Local Broward County Vendor"** shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.
- b. A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the Local Pembroke Pines Vendor(s); A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the Local Broward County Vendor(s).

☐ Yes

☐ No

*Response required

When equals "Yes"



15.1.1 Please indicate your Local Vendor Status*

☐ Local Pembroke Pines Vendor (LPPV)

☐ Local Broward County Vendor (LBCV)

*Response required

When equals "Yes"

15.1.2 Local Vendor Preference Certification*

1. Please download the attached document, complete all required fields, and upload the completed form here.

- [Local Vendor Preference Cer...](#)

*Response required

When equals "Yes"

15.1.3 Local Business Tax Receipts*

1. If claiming Local Vendor Preference, please upload any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

*Response required

15.2 Is your firm a Veteran Owned Small Business (VOSB)?*

- a. The evaluation of competitive bids is subject to section 35.37 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to veteran owned small businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with the following objective criteria as of the bid or proposal submission date stated in the solicitation.
- b. A preference of two and a half percent (2.5%) of the total evaluation point, or two and a half percent (2.5%) of the total price, shall be given to the Veteran Owned Small Business (VOSB).

☐ Yes

☐ No

*Response required

When equals "Yes"

15.2.1 Upload the "Determination Letter" from the United States Department of Veteran Affairs Center notifying the business that they have been approved as a Veteran Owned Small Business (VOSB)

When equals "Yes"



- 15.2.2 Upload Veteran Owned Small Business Certification(s) from any relevant agency(ies)
- 15.3 Is your firm a Minority-Owned Business Enterprise (MBE)?*
- ☐ Yes
- ☐ No

*Response required

When equals "Yes"

- 15.3.1 Please indicate the classification of your Minority-Owned Business Enterprise (MBE)*

Select all that apply

- ☐ African-American MBE
- ☐ Asian-American MBE
- ☐ Hispanic-American MBE
- ☐ Native-American MBE
- ☐ Other option not listed above

*Response required

When equals "Yes"

- 15.3.2 MBE Certification Documentation*

1. Upload your MBE Certification Documentation here, preferably with the State of Florida's Office of Supplier Diversity. If you have multiple MBE certifications, please combine them into one (1) document and upload.

*Response required

- 15.4 Is your firm a Woman-Owned Business Enterprise (WBE)?*
- ☐ Yes
- ☐ No

*Response required

When equals "Yes"

- 15.4.1 WMBE Certification Documentation*

1. Upload your WMBE Certification Documentation here, preferably with the State of Florida's Office of Supplier Diversity. If you have multiple WMBE certifications, please combine them into one (1) document and upload.

*Response required

- 15.5 Is your firm a HubZone Business / Labor Surplus Area Firm?*
- ☐ Yes
- ☐ No



*Response required

When equals "Yes"

15.5.1 HubZone Business / Labor Surplus Area Firm Certification Documentation*

1. Upload your HubZone Business / Labor Surplus Area Firm Certification Documentation, preferably with the U.S. Small Business Administration (SBA). If you have multiple certifications, please combine them into one (1) document and upload.

*Response required

15.6 Is your firm a Broward County Small Business Enterprise (SBE)?*

☐ Yes

☐ No

*Response required

When equals "Yes"

15.6.1 SBE Certification Documentation*

1. Upload your SBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.

*Response required

15.7 Is your firm a Broward County Business Enterprise (CBE)?*

☐ Yes

☐ No

*Response required

When equals "Yes"

15.7.1 CBE Certification Documentation*

1. Upload your CBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.

*Response required

15.8 Is your firm a Broward County Disadvantaged Business Enterprise (DBE)?*

☐ Yes

☐ No

*Response required

When equals "Yes"



15.8.1 DBE Certification Documentation*

1. Upload your DBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.

*Response required

15.9 Does your firm have a Vendor Classification that was not listed above?*

☐ Yes

☐ No

*Response required

When equals "Yes"

15.9.1 Other Vendor Classification Certification Documentation*

1. Upload your other Certification Documentation here. If you have multiple certifications, please combine them into one (1) document and upload.

*Response required



SECTION 7 - EVALUATION OF PROPOSALS & PROCESS SELECTION

7.1 Qualifying & Selecting Firms

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information and references contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.
- C. The contract shall be awarded to the most responsive/responsible bidder whose bid is determined to be the most advantageous to the City taking into consideration the evaluation criteria.

PROJECT: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING
ADDRESS: 19900 PINES BLVD, PEMBROKE PINES, FL 33029 - **ENGINEERING**



CONTACTS

PEMBROKE PINES
JOHN L.ENGLAND
DESIGN ENGINEER
PHONE: (954) 518-8905
JENGLAND@PPINES.COM

KMV FIBERTELECOM INC
SANDRA KARINA VARGAS
10604 NW 48TH ST
CORAL SPRINGS FL 33076
PHONE: 954-937-5239
KARINAV@KVMFIBERTELECOM.COM



SITE INDEX

- 01 OF 14 - COVER SHEET/SITE LOCATION
- 02 OF 14 - OVERALL MAP
- 03 OF 14 - CONSTRUCTION NOTES
- 04 OF 14 TO 06E OF 14 - PLAN VIEWS & PROFILES
- 07 OF 14 - PHOTOGRAPHS
- 08 OF 14 TO 11 OF 14 - TYPICAL
- 12 OF 14 TO 14 OF 14 - MOTs

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT



CHECKED BY:	GIULIANO LEON
ENGINEERING FIRM:	KMV FIBERTELECOM INC
PROJECT NUMBER:	KMV-PP-24-001
LOCATION:	19900 PINES BLVD PEMBROKE PINES, FL 33029
DRAWING NAME:	KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg
CONFIDENTIAL/PROPRIETARY	SHEET: 01 OF 14

LINETYPES

	UG FIBER - EXISTING
	UG FIBER - PROPOSED
	AERIAL FIBER - EXISTING
	AERIAL FIBER - PROPOSED
	STRAND - EXISTING
	STRAND - PROPOSED
	CONDUIT - EXISTING
	CONDUIT - PROPOSED
	INNERDUCT - EXISTING
	INNERDUCT - PROPOSED
	ASBUILT CONDUIT
	GAS
	TRAFFIC
	WATER
	TELEPHONE
	ELECTRIC
	STREET LIGHT
	FOC
	FORCE MAIN
	SANITARY SEWER (SEW)
	STORM DRAIN
	RECLAIMED WATER
	FENCE
	CABLE TV
	STEAM
	OIL
	UNKNOWN UTILITY
	RIGHT OF WAY
	EDGE OF PAVEMENT
	EASEMENT



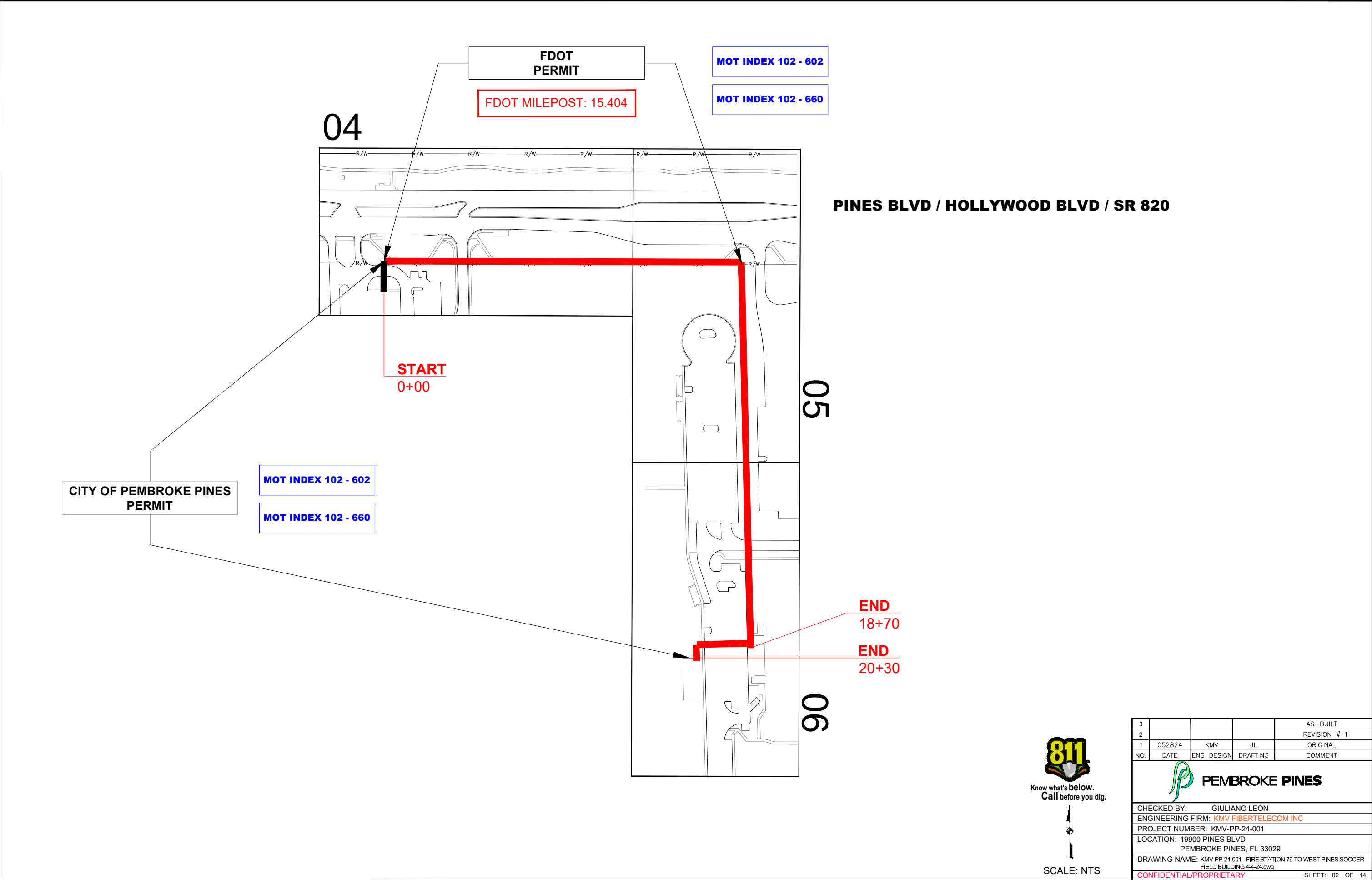
SITE LOCATION
SCALE: NTS



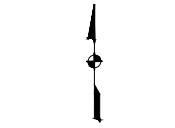
PERMITTING	DATE SUBMITTED	TWP : 51S	RNG : 39E	SEC : 14
JURISDICTION: * CITY OF PEMBROKE PINES * FDOT	05/28/2024	PLAT BOOK : -	PAGE : -	

SUMMARY DATA


JOB DESCRIPTION	FTG
DIRECTIONAL BORE	1900'
HAND TRENCH	10'
EXISTING CONDUIT	90'
HANDHOLE	4



Know what's below.
Call before you dig.



SCALE: NTS

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
 PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
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CONFIDENTIAL/PROPRIETARY				
SHEET: 02 OF 14				

CONSTRUCTION NOTES

TYPICAL UNDERGROUND CONSTRUCTION:

- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
- CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DISTANCES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION AND CONDITION OF EXISTING CONDUIT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.
- ANY CHANGES ON PROPOSED RUNNING LINE HAVE TO GET APPROVAL FROM BLUE STREAM CONSTRUCTION MANAGER.

FOR CONSTRUCTION:

- EXTREME CAUTION TO BE TAKEN TO CONTAIN SLURRY AROUND WORK AREAS NEAR WETLANDS TO AVOID ANY WATER QUALITY ISSUES!
- LOCATIONS, ELEVATIONS LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER SITE FEATURES SHOWN ON THE DRAWINGS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. PLEASE CONTACT SUNSHINE STATE ONE-CALL AT 1-800-432-4770
- **CAUTION:** EXISTING UNDERGROUND UTILITIES IN AREA. NO ELEVATION RECORDS FOR EXISTING UTILITIES AVAILABLE. CONTRACTOR SHOULD CONTACT SUNSHINE 811, LOCATE ALL UTILITIES AND VERIFY ALL DEPTHS PRIOR TO CONSTRUCTION

CITY OF PEMBROKE PINES GENERAL NOTES


- THE CITY OF PEMBROKE PINES ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE LOCATIONS AND ELEVATIONS OF CITY UTILITIES AS REFLECTED ON THE DRAWINGS BASED UPON INFORMATION PROVIDED FROM CITY RECORDS NOR DOES THE CITY GUARANTEE THE COMPLETENESS OF THE CITY UTILITIES INFORMATION AS PROVIDED FROM CITY RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND UTILITY OWNER TO FIELD LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES IN THE WORK AREA FOR THE ENTIRE LIMITS OF THE PROJECT.
- A MINIMUM OF 7.5' OF HORIZONTAL SEPARATION AND A MINIMUM OF 18" OF VERTICAL SEPARATION SHALL BE MAINTAINED TO ALL CITY OF PEMBROKE PINES UTILITIES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL CROSSINGS OF THE PROPOSED DIRECTIONAL BORE AND OPEN TRENCH INSTALLATION WITH CITY UTILITIES SHALL BE VERIFIED FOR CONFIRMATION OF MINIMUM VERTICAL SEPARATION REQUIREMENTS BY WAY OF "SOFT DIG" METHODS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL CALL "SUNSHINE ONE" AT 1-800-432-4770 OR 811 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION TO ALLOW FOR "FIELD LOCATES" OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- ALL STREET, SIDEWALK AND SWALE (SOD) RESTORATION SHALL COMPLY WITH CITY STANDARDS AND/OR SPECIFICATIONS, UNLESS THE STANDARDS AND/OR SPECIFICATIONS OF ANOTHER PERMITTING GOVERNMENTAL AGENCY SUPERCEDES THOSE OF THE CITY.
- A M.O.T. PLAN PREPARED BY A F.D.O.T. CERTIFIED M.O.T. ENGINEER SHALL BE SUBMITTED FOR CONSTRUCTION PERMIT BASED UPON THE SCOPE OF THE PROPOSED PROJECT AND EXISTING ROADWAY/STREET CONDITIONS.
- A PRECONSTRUCTION MEETING IS REQUIRED TO BE HELD WITH THE ENVIRONMENTAL SERVICES/ENGINEERING DIVISION AS A PREREQUISITE TO THE CITY'S RELEASE OF THE CONSTRUCTION PERMIT.
- MAINTENANCE OF TRAFFIC (M.O.T.) SHALL BE PROVIDED BY A F.D.O.T. CERTIFIED M.O.T. CONTRACTOR.

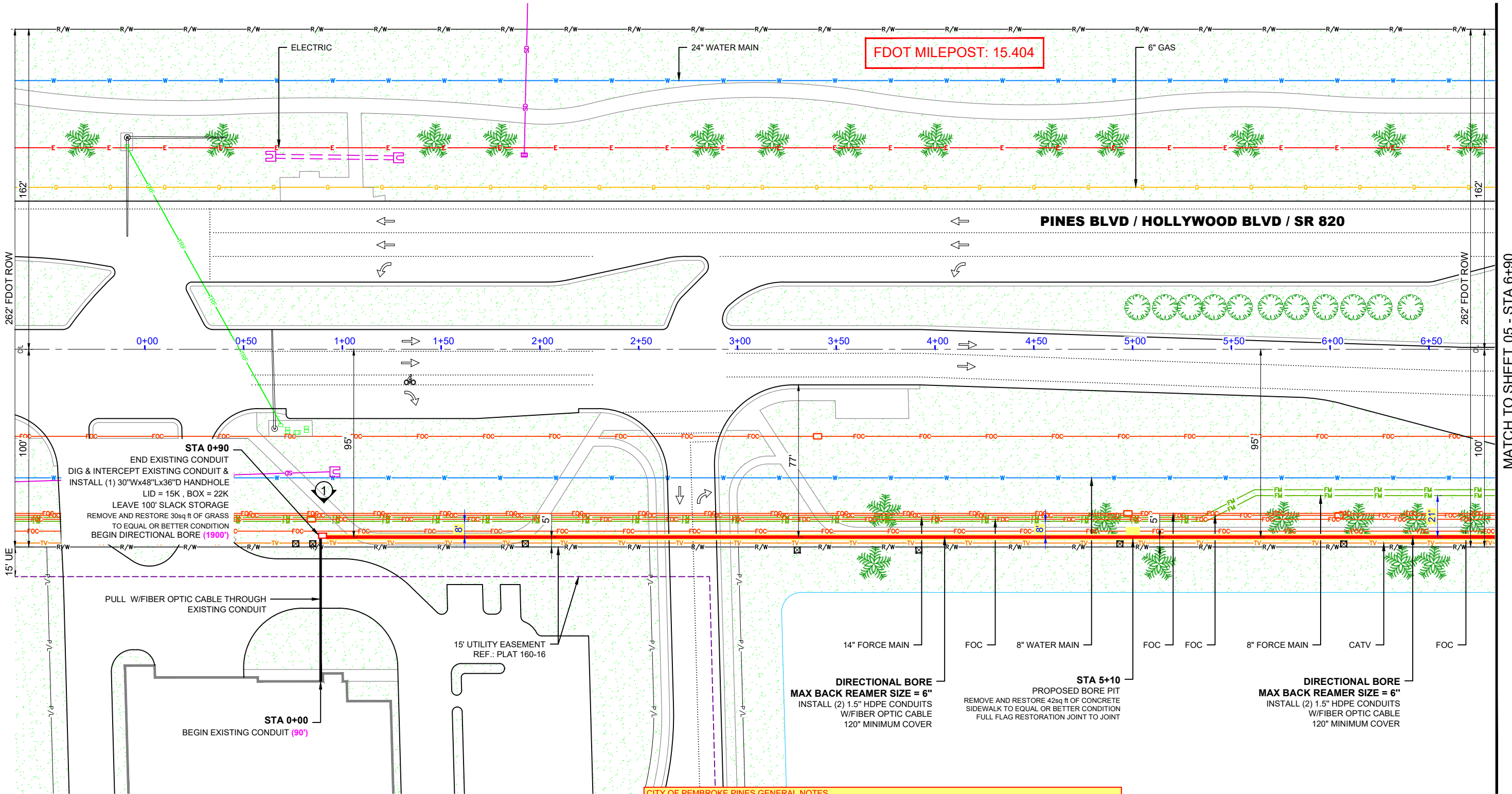
DESIGN TICKET

#xxxxxxxxxxx

FDOT GENERAL NOTES:

- EXISTING F.D.O.T. DRAINAGE SYSTEM SHALL BE PROTECTED AT ALL TIMES BY THE PERMITTEE. ANY DAMAGE TO THE F.D.O.T. DRAINAGE SYSTEM (STRUCTURES OR PIPES) SHALL BE REPAIRED/REPLACED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.
- EXISTING GAS MAIN SHALL BE PROTECTED AT ALL TIMES DURING EXCAVATION, DRILLING AND CONDUIT INSTALLATION ACTIVITIES. UTILITY GAS COMPANY SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING AND GIVE WRITTEN CLEARANCE PRIOR TO COMMENCEMENT OF ANY PERMIT OPERATIONS.
- ANY DAMAGE TO CONCRETE SIDEWALK, CURB AND GUTTER, PEDESTRIAN CURB RAMPS, AND TRAFFIC SEPARATORS SHOULD BE RESTORED PER FDOT STANDARDS PLANS INDEX NO. 522-001, 520-001, 522-002, AND 520-020, ADA STANDARDS, AND FDOT STANDARD SPECIFICATION 522. DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. IMPACTED PEDESTRIAN RAMPS SHALL BE REPLACED COMPLETELY; HANDHOLES MUST NOT BE LOCATED WITHIN PEDESTRIAN RAMPS. MAKE SURE TO FURNISH APPROPRIATE EXPANSION JOINTS PER FDOT STANDARDS PLANS INDEX 350-001. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527.
- HANDHOLES AND PULL BOXES SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF EXISTING PEDESTRIAN ADA CURB RAMP NEITHER DRIVEWAY ENTRY AREA. REFER TO PPM, VOL. 2, CH. 8, SECTION 8.3.2 REGARDING NONSLIP TOP SURFACE IF THE HAND HOLE IS PROPOSED WITHIN PEDESTRIAN CURB RAMP. DO NOT INSTALL NEW HH AT LEAST 10' FROM ADA CURB RAMPS, FIRE HYDRANTS, BUS BOOTH-BENCHES
- WHERE PEDESTRIAN FACILITIES ARE DETOURED, BLOCKED, OR CLOSED DURING THE WORK, PLEASE ENSURE TO PROVIDE SAFE ALTERNATE ACCESSIBLE ROUTES THROUGH OR AROUND THE WORK ZONE THAT MEETS THE REQUIREMENTS OF THE ADA STANDARDS AND FDOT STANDARD PLAN INDEX 102-660.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-2024 STANDARD INDEX No 570-001.
- PROVIDE PROTECTION TO THE EXISTING TREES AND AVOID ANY IMPACT TO THE ROOTS. WHEN CONSTRUCTION AFFECTS TREE ROOTS OR CANOPY, PROVIDE TRIMMING PER FDOT STANDARD PLANS INDEX 110-100.
- PROVIDE APPROPRIATE EROSION CONTROL DEVICES DURING CONSTRUCTION.
- LANDSCAPING, TREES, SOD SHALL BE REPLACED AT THE COST OF THE PERMITTEE
- THE CONTRACTOR SHALL COORDINATE WITH BROWARD COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW), TRAFFIC SIGNALS & SIGNS DIVISION AT LEAST 5 WORKING DAYS PRIOR TO ANY WORK DONE AT SIGNALIZED INTERSECTIONS , WHICH EITHER CLOSE ANY LANES, NEED CHANGES IN THE SIGNAL OPERATION OF TIMING, DAMAGE OR HINDER ANY SIGNAL SENSOR, OR DAMAGE ANY CABLE OR SIGNAL EQUIPMENT .
- PERMITTEE IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL DRILLING/TRENCH WORK AND ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE DONE TO UNDERGROUND FACILITIES AND ABOVE GROUND FACILITIES. DIRECTIONAL BORING SHALL BE CONDUCTED ACCORDING TO LATEST SECTION 555 OF FDOT'S STANDARD SPECIFICATIONS AND 3.16.9.1 OF THE 2017 U.A.M. OPEN TRENCH SHALL BE CARRIED OUT PER 3.16.4. OF 2017 U.A.M
- CONDUIT INSTALLATION SHALL ADHERE TO THE LATEST FDOT STANDARD PLANS INDEX NO. 630-001
- ACCORDING TO SECTION 3.10 OF 2017 U.A.M. WHEN UNDERGROUND AND AERIAL UTILITIES OCCUPY THE SAME ROADSIDE, UNDERGROUND UTILITIES SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE R/W LINE.
- DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. RESTORATION SHALL MATCH EXISTING CONCRETE PATTERN, PAVERS, AND COLOR. IMPACTED PEDESTRIAN RAMPS AND DRIVEWAYS SHALL BE REPLACED COMPLETELY. INCLUDE 1 FOOT OF LEVEL EMBANKMENT FOR EROSION AND ENSURE TO NOT CREATE ANY DROP OFF HAZARDS AS SHOWN ON FDM FIGURE 222.4.1. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527
- PROPOSED HANDHOLES MUST ADHERE TO LATEST FDOT STANDARD PLANS INDEX NO. 635-001". ENSURE ALL HANDHOLE LIDS ON SIDEWALK ARE FLUSH AND ADA COMPLIANT. MAINTAIN THE TEMPORARY PATCHES AROUND THE HANDHOLE BOX EDGES AND/OR ANYWHERE ELSE WHERE SIDEWALK HAS BEEN IMPACTED/DAMAGED BY THE DB WORK OR UTILITY INSTALLATION, SO IT PROVIDES A SMOOTH -ALL WEATHER SURFACES ALWAYS. ONCE THE HANDHOLE IS INSTALLED THE LID MUST BE KEPT IN PLACE, BOLTED, AND SECURED.
- TEMPORARY BARRIERS FOR PEDESTRIAN DETOURS MUST COMPLY WITH THE LATEST FDOT STANDARD PLANS INDEX NO. 102-100.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-24 DESIGN STANDARDS INDEX 570-010.
- PERMITTEE MUST TAKE PICTURES OF THE EXISTING STREET LIGHTNING SYSTEM WORKING-DURING NIGHT-TIME-WITHIN THE LIMITS OF THIS PROPOSED JOB PRIOR TO BEGIN SAID WORK. TO AVOID FUTURE DISPUTE ABOUT UNFORESEEN DAMAGES TO THE LIGHTNING SYSTEM.
- CONTAMINATED SITES LOCATED WITHIN A 500-FOOT RADIUS OF THE PROJECT AREA THAT COULD IMPACT THE FDOT ROW HAVE BEEN IDENTIFIED. THE PERMITTEE SHALL ASSURE THAT ANY ACTIONS CARRIED OUT ARE IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATORY REQUIREMENTS.
- ANY ABOVEGROUND FEATURES THAT MAY BE IMPACTED BY PROPOSED WORK MUST BE IDENTIFIED TO BE ADJUSTED/RELOCATED/REPLACED. IF SIGNS ADD ARE DAMAGED, THESE MUST BE REPLACED ACCORDING THE LATEST FDOT STANDARD PLANS INDEX NO. 700-101. ENSURE LATERAL OFFSET AND CLEAR ZONE STANDARDS ARE BEING ADHERED TO.

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
<div> PEMBROKE PINES</div>				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-001				
LOCATION: 19900 PINES BLVD PEMBROKE PINES, FL 33029				
DRAWING NAME: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg				
CONFIDENTIAL/PROPRIETARY SHEET: 03 OF 14				



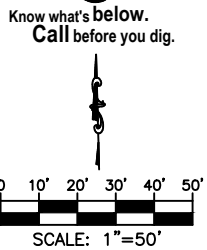
PLAN VIEW
SCALE: 1"=50'

DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"

NOTE: AS A CONDITION OF PERMIT, ALL CROSSINGS OF THE PROPOSED DIRECTIONAL BORE AND/OR OPEN TRENCH INSTALLATION WITH CITY UTILITIES SHALL BE VERIFIED FOR CONFIRMATION OF MINIMUM VERTICAL SEPARATION REQUIREMENTS BY WAY "SOFT DIG" AND/OR EXCAVATION METHODS PRIOR TO THE START OF CONSTRUCTION.
*USE EXTREME CAUTION WHEN EXCAVATING NEAR WATER AND SEWER SERVICES.

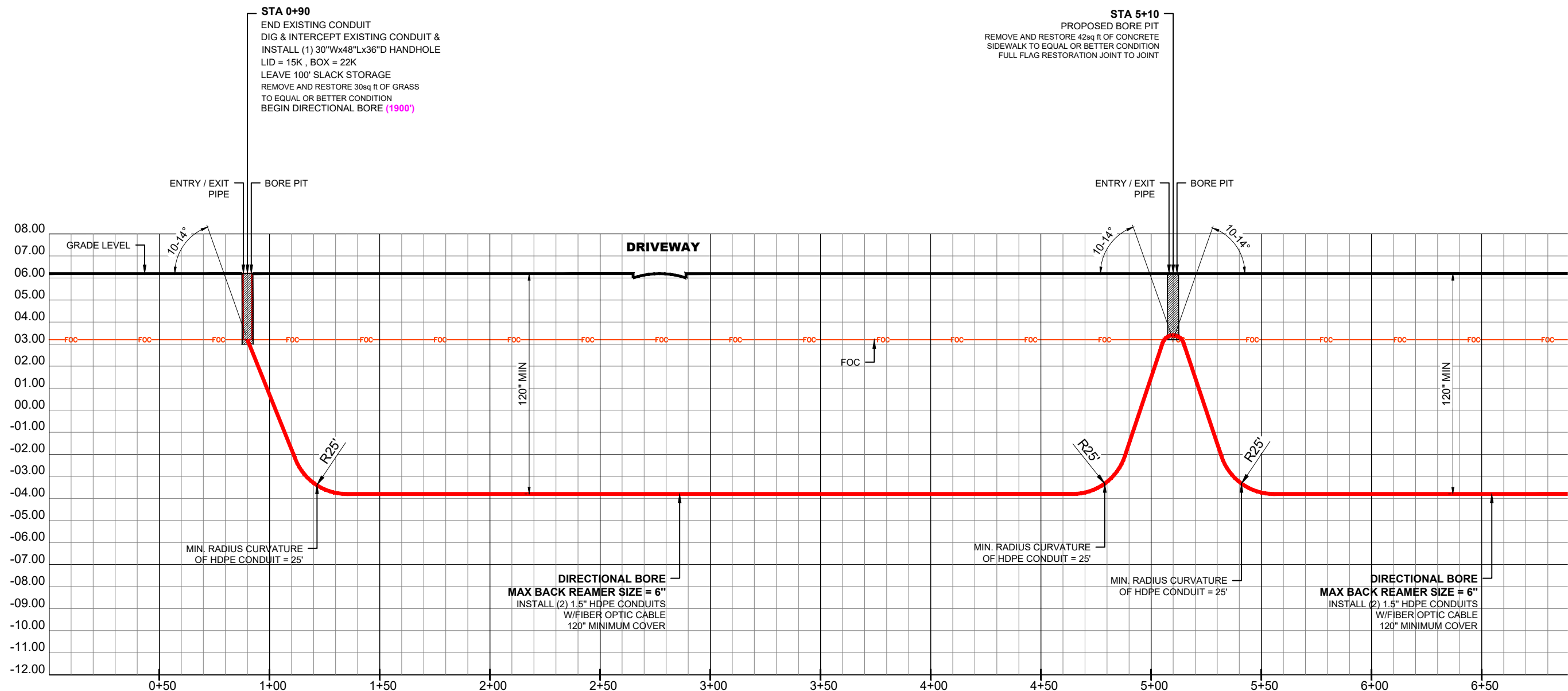
CITY OF PEMBROKE PINES GENERAL NOTES

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3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-001				
LOCATION: 19900 PINES BLVD PEMBROKE PINES, FL 33029				
DRAWING NAME: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg				
CONFIDENTIAL/PROPRIETARY				
				SHEET: 04 OF 14

MATCH TO SHEET 05 - STA 6+90



PROFILE - PINES BLVD / HOLLYWOOD BLVD / SR 820 (LOOKING NORTH)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

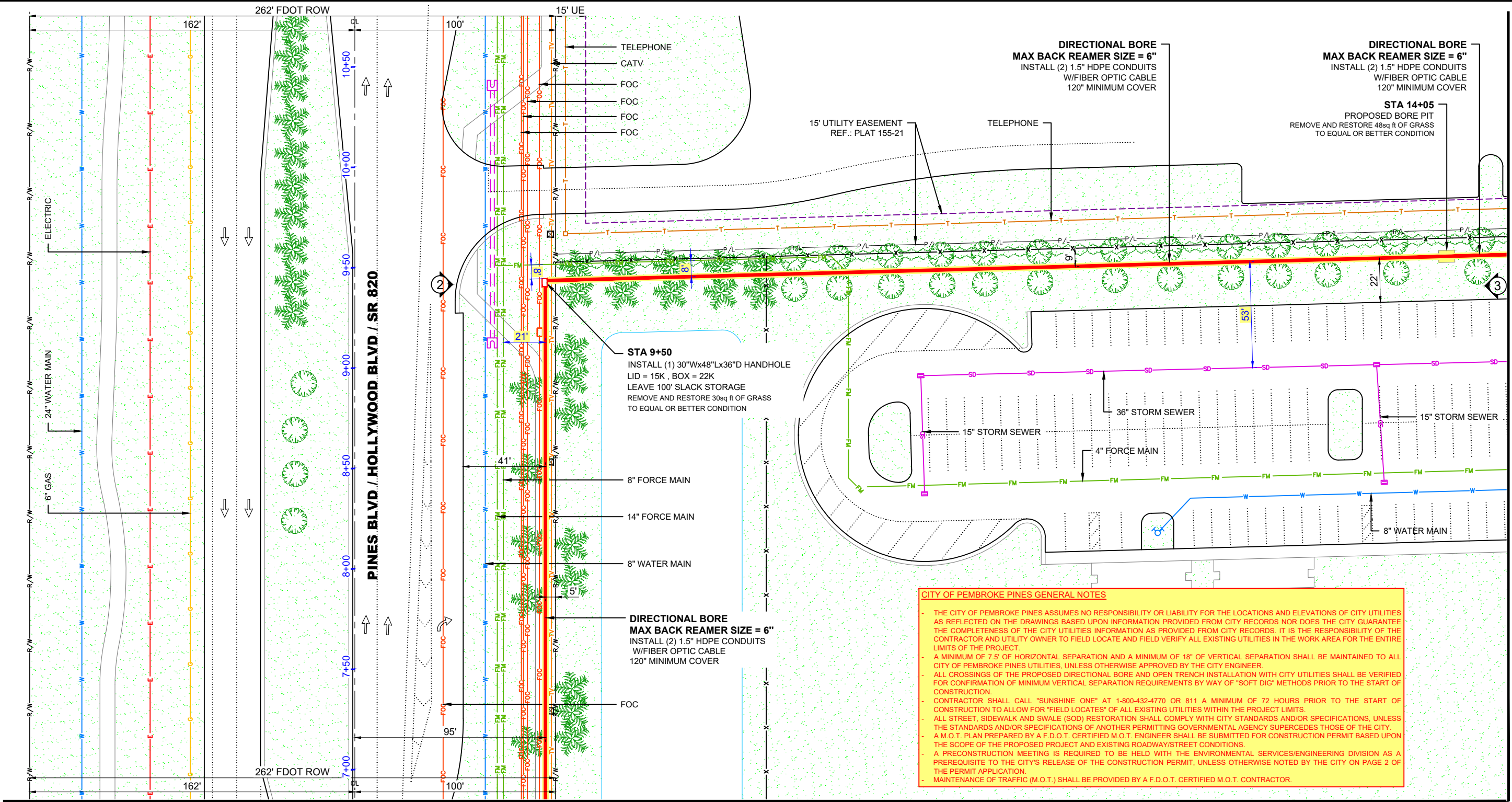
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**RECORD ON UTILITY PLANS
CONSTRUCTION CONTRACTOR
SHALL CALL LOCATES AND SOFT DIG TO DETERMINE
UTILITY ELEVATION BEFORE CONSTRUCTION.**

**DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"**



3				AS-BUILT
2				REVISION # 1
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CITY OF PEMBROKE PINES GENERAL NOTES

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PLAN VIEW

SCALE: 1"=50'

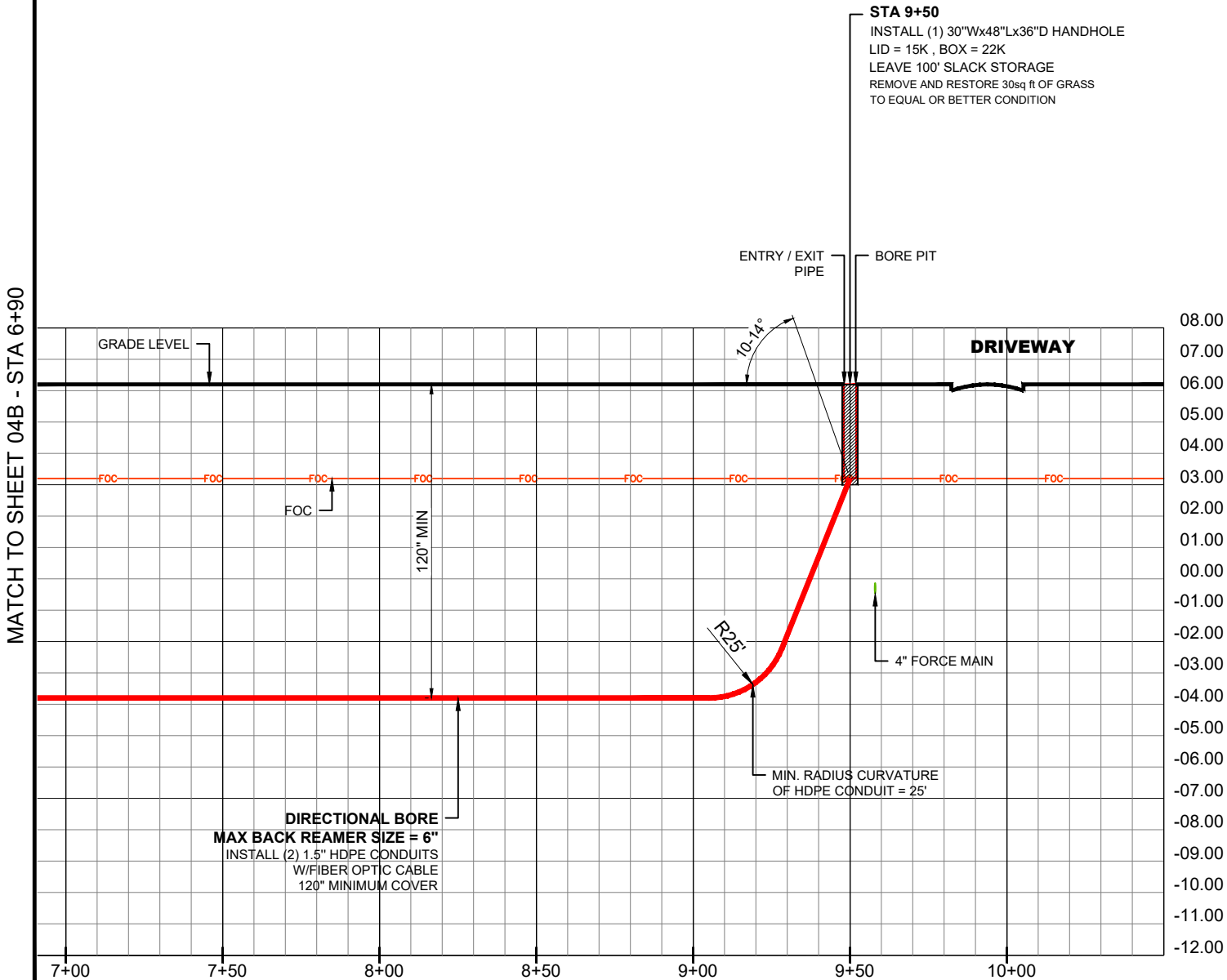
DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"

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FDOT MILEPOST: 15.404



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PROFILE - PINES BLVD / HOLLYWOOD BLVD / SR 820 (LOOKING NORTH)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'


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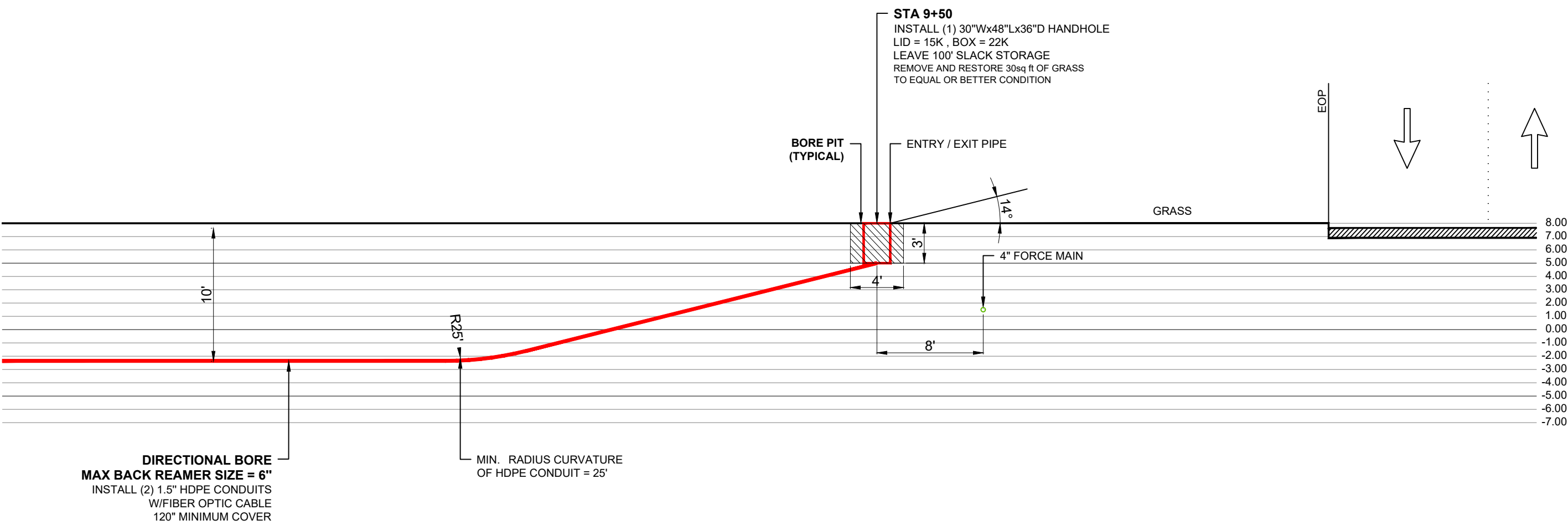
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ENTRY ANGLE 10-14°
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PROFILE - PINES BLVD / HOLLYWOOD BLVD / SR 820 (LOOKING NORTH)

HORIZONTAL : 1"=8'
VERTICAL : 1"=1'


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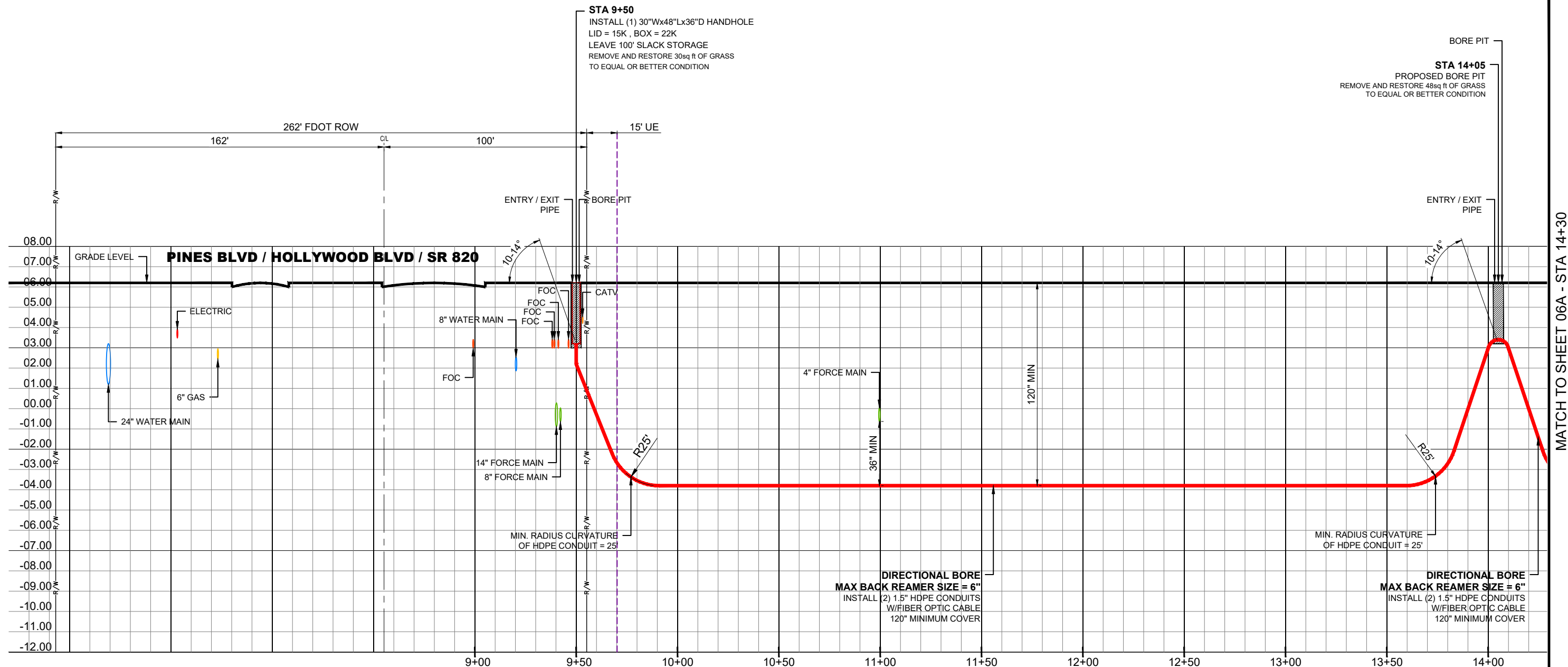
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PROFILE - (LOOKING EAST)

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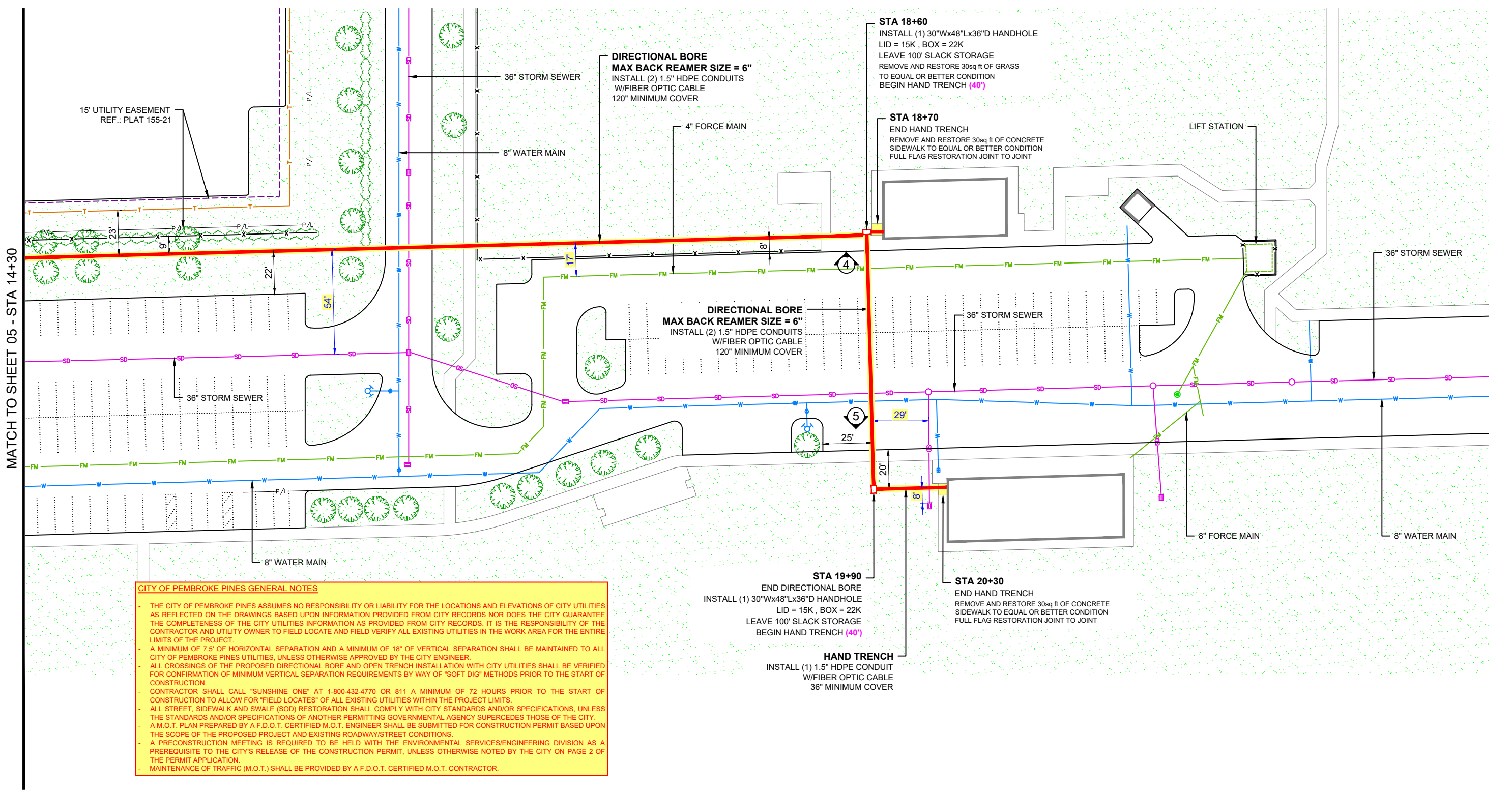
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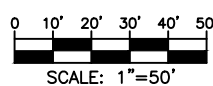
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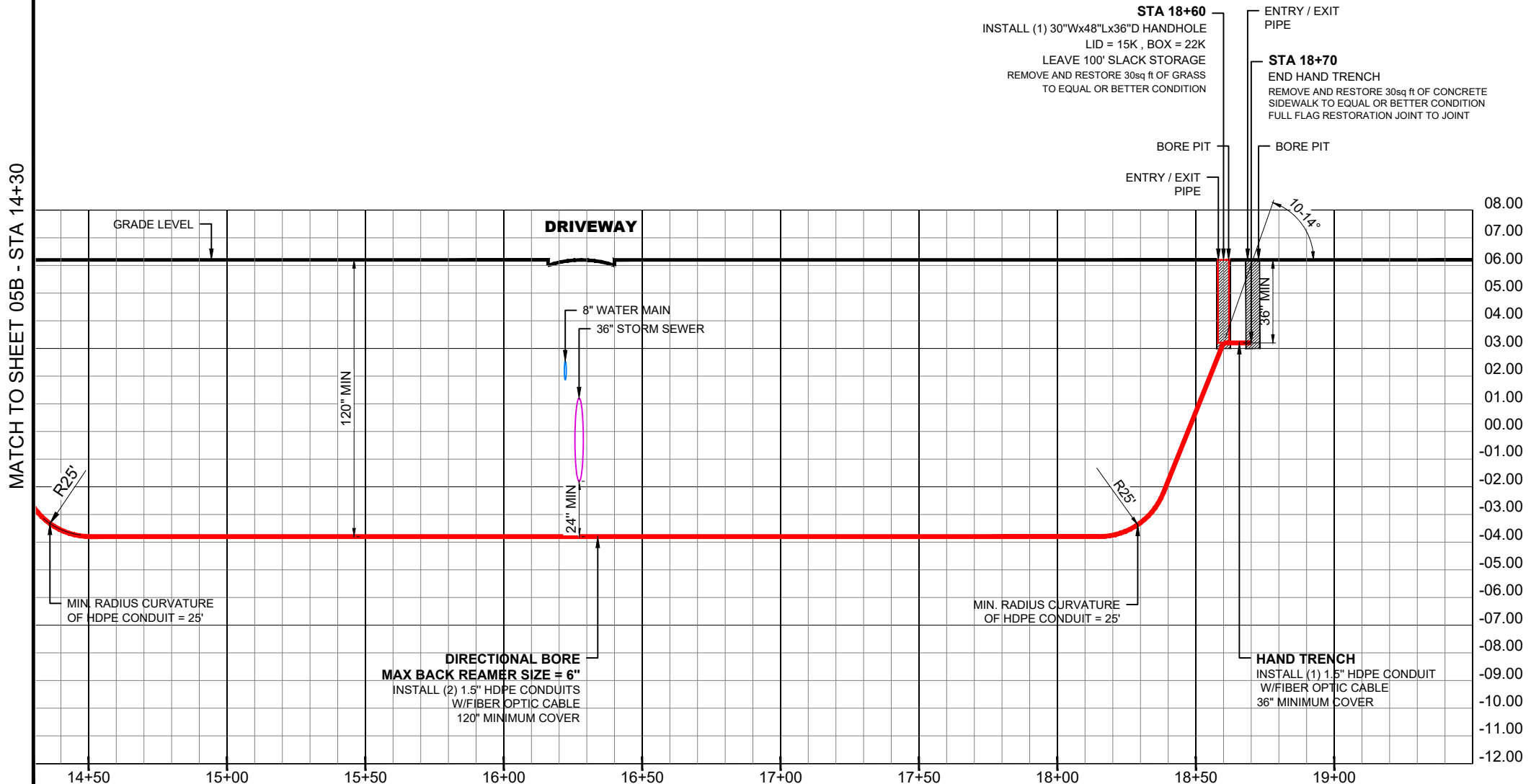
PLAN VIEW
SCALE: 1"=50'

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CONFIDENTIAL/PROPRIETARY				
SHEET: 06 OF 14				



PROFILE - (LOOKING EAST)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

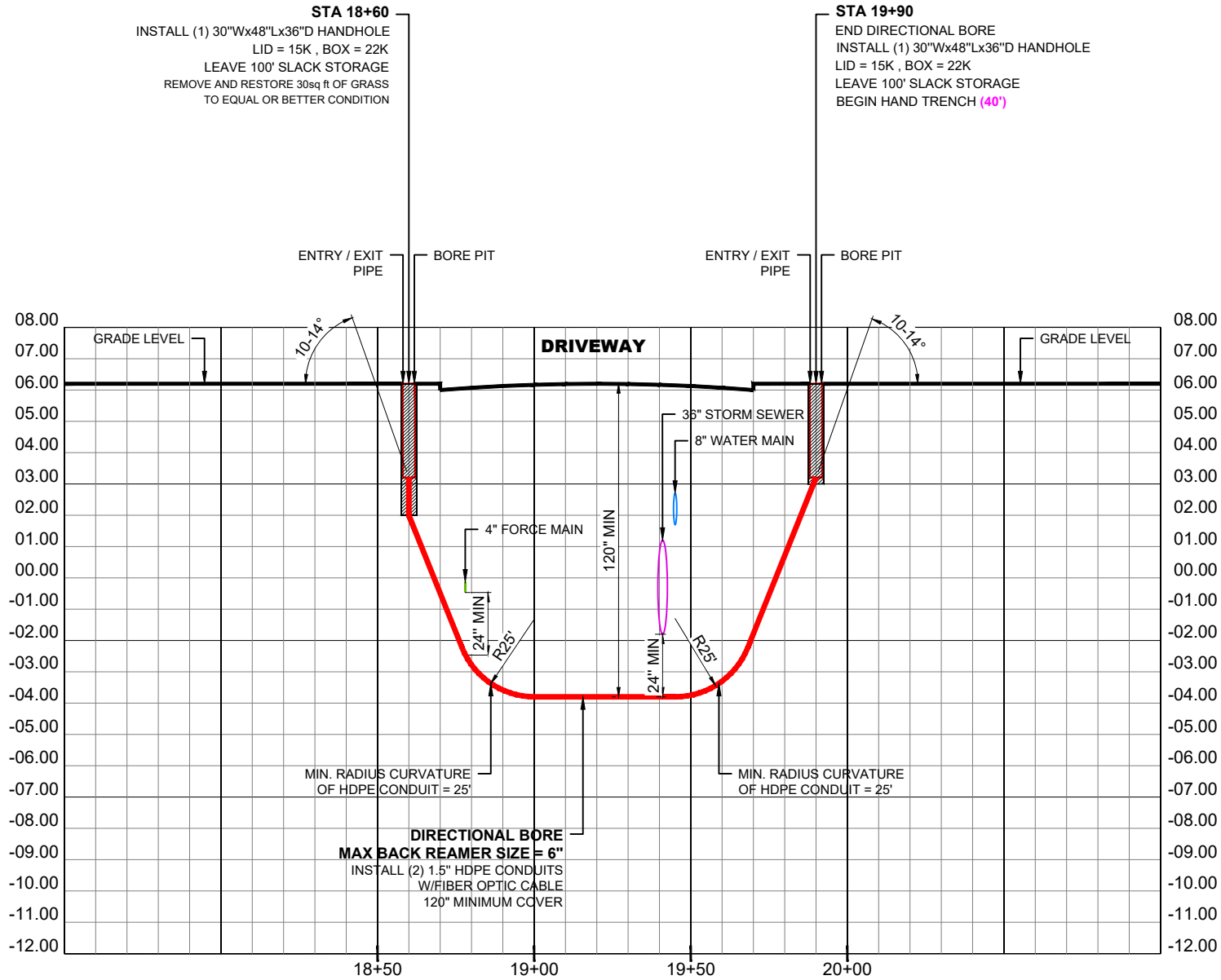
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PROFILE - (LOOKING SOUTH)

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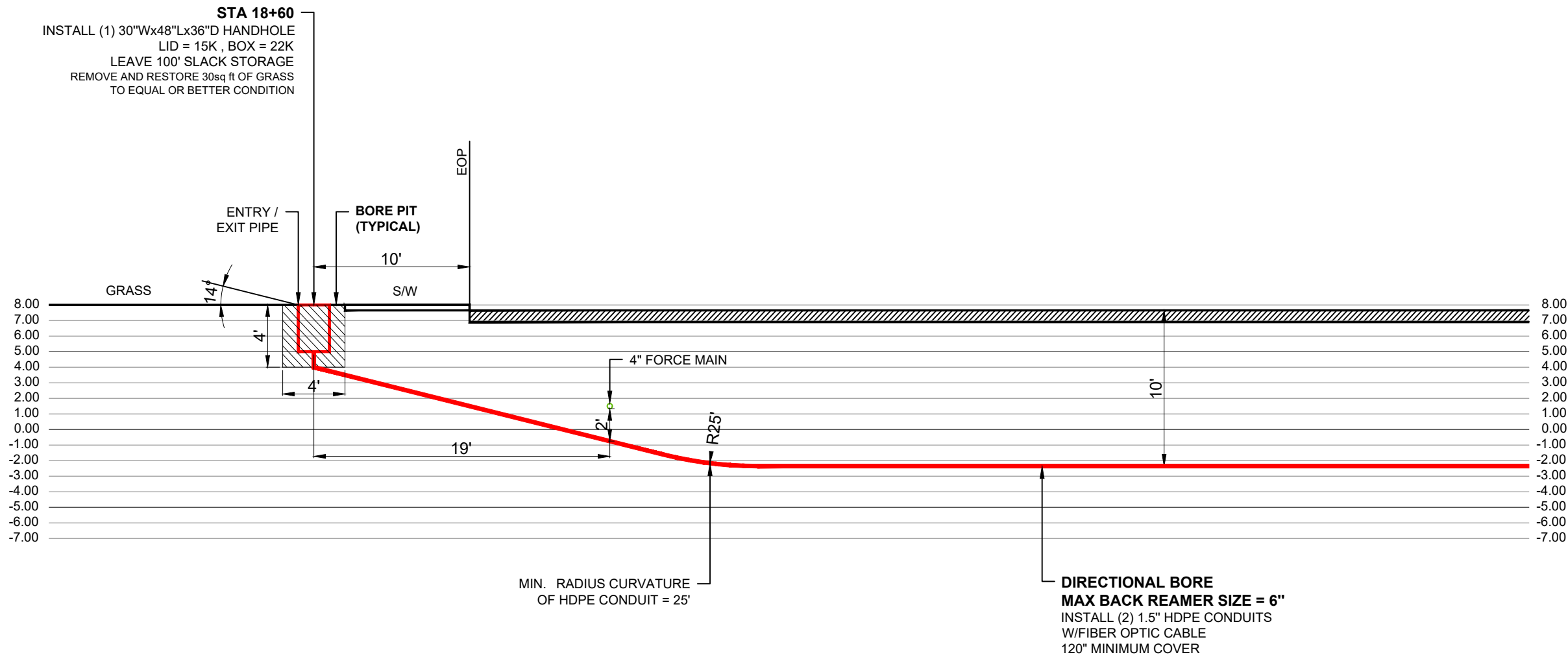
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PROFILE - (LOOKING SOUTH)

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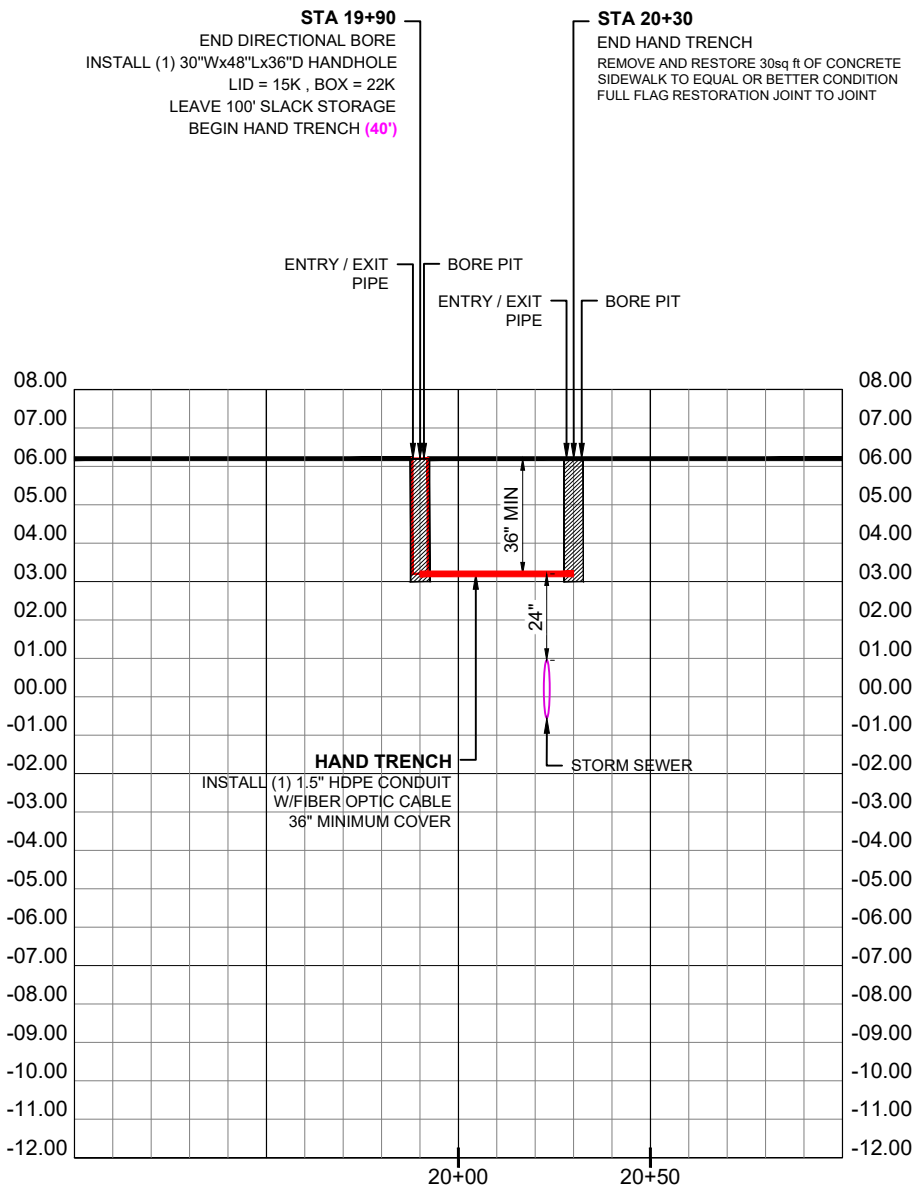
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PROFILE - (LOOKING EAST)

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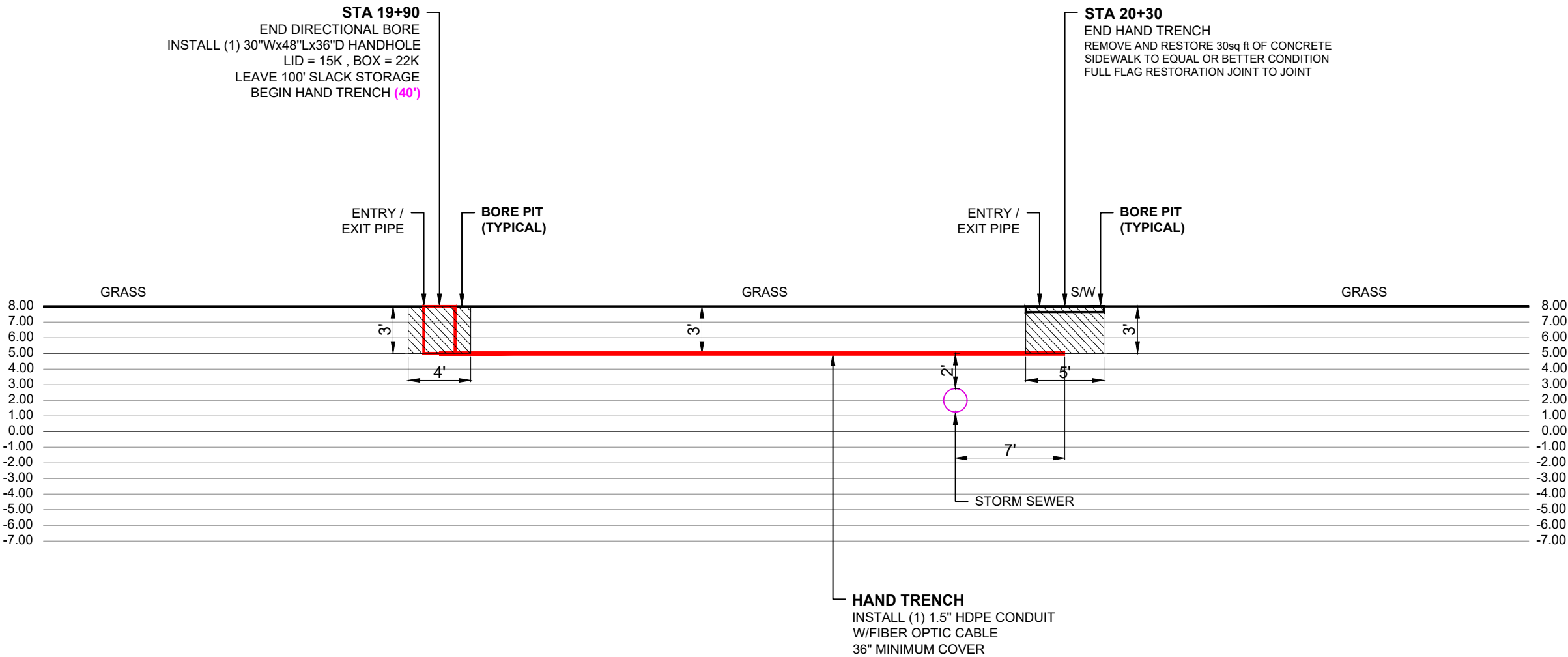
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PHOTOGRAPHS

STA 0+90
END EXISTING CONDUIT
DIG & INTERCEPT EXISTING CONDUIT &
INSTALL (1) 30"Wx48"Lx36"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION
BEGIN DIRECTIONAL BORE (1900')



STA 0+90 INSTALL PEMBROKE PINES HANDHOLE

1
04

STA 9+50
INSTALL (1) 30"Wx48"Lx36"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 9+50 INSTALL PEMBROKE PINES HANDHOLE

2
05

STA 14+05
PROPOSED BORE PIT
REMOVE AND RESTORE 48sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 14+05 PROPOSED BORE PIT

3
05

STA 18+60
INSTALL (1) 30"Wx48"Lx36"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 18+60 INSTALL PEMPROKE PINES HANDHOLE


4
06

STA 19+90
END DIRECTIONAL BORE
INSTALL (1) 30"Wx48"Lx36"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
BEGIN HAND TRENCH (40')



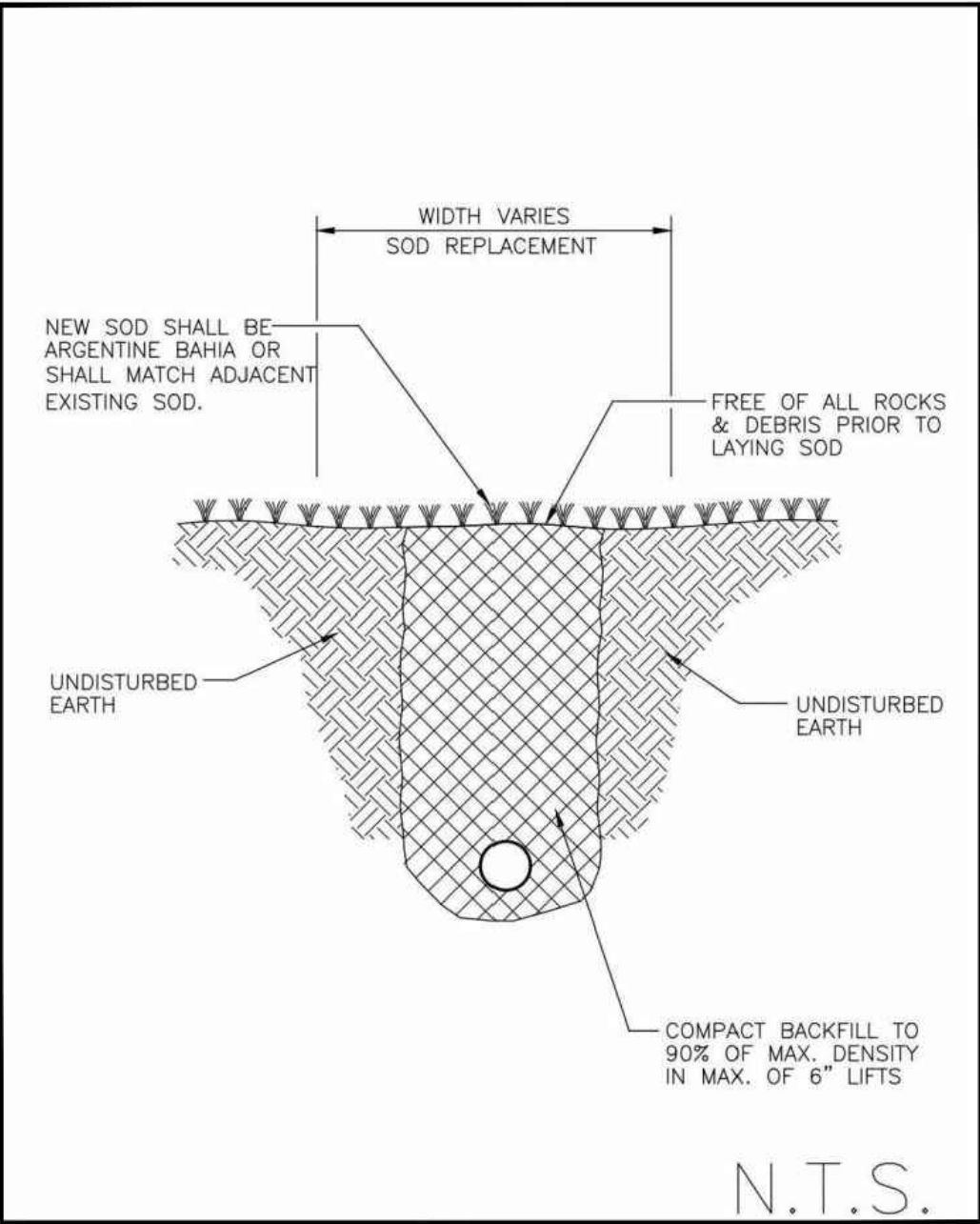
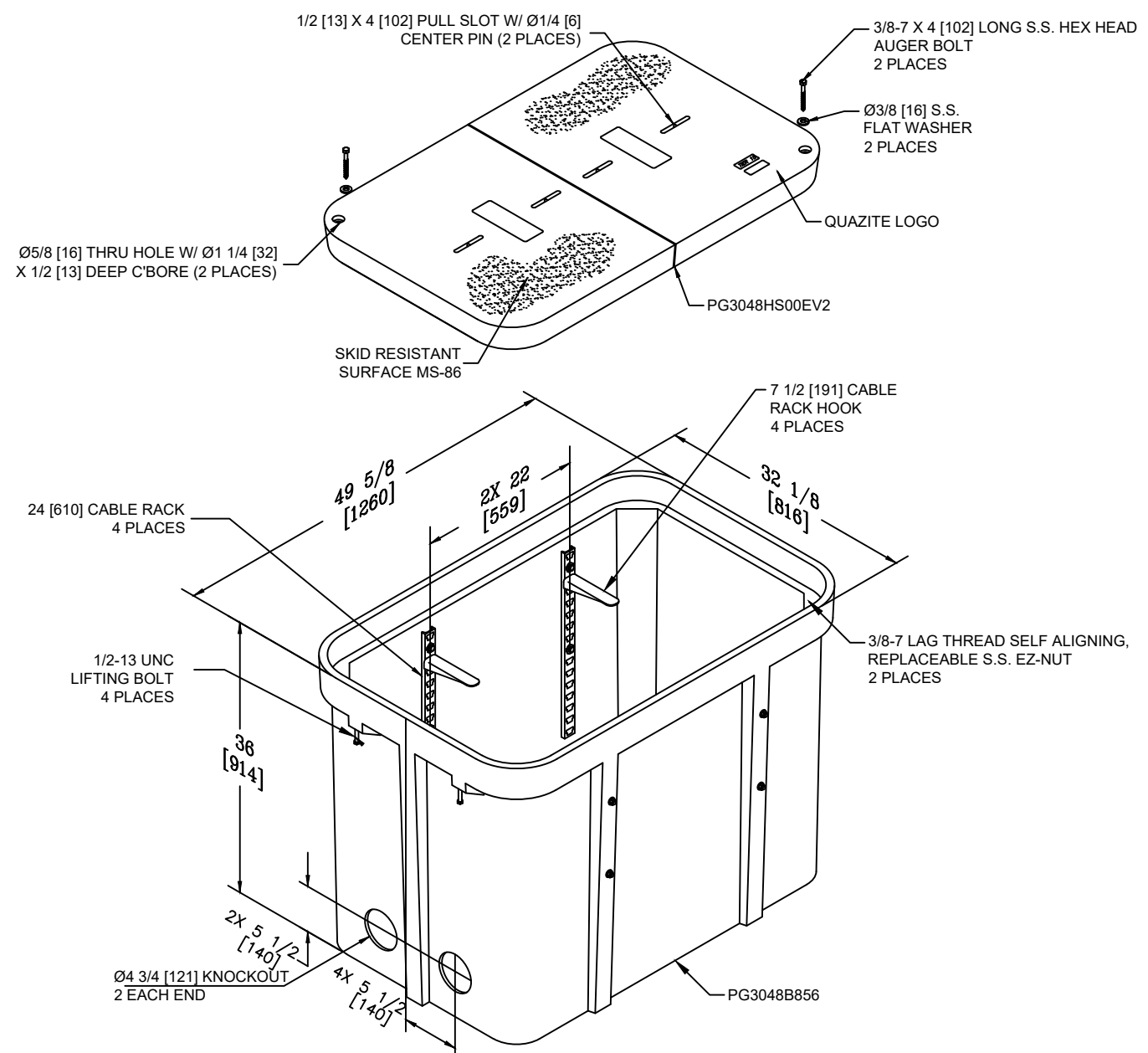
STA 20+50 INSTALL PEMBROKE PINES HANDHOLE

5
06

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
 PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-001				
LOCATION: 19900 PINES BLVD PEMBROKE PINES, FL 33029				
DRAWING NAME: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 07 OF 14				


TYPICAL

BORE PIT RESTORATION DETAIL



TYPICAL DETAIL - # 2

QUAZITE 30X48X36 ASSEMBLY
W/(4) 24" CABLE RACKS
& (4) 7 1/2" HOOKS
TIER 22 (15K DESIGN LOAD/ 22.5 TEST LOAD)
PG3048Z987EV2

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
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SHEET: 08 OF 14				

JR20 DIRECTIONAL DRILL SPECIFICATIONS

JT20 DIRECTIONAL DRILL

OPERATION	U.S.	METRIC
Spindle speed, max	210 rpm	
Spindle torque, max	2,200 ft.-lb.	2980 N-m
Carriage thrust travel speed	140 fpm	43 m/min
Carriage thrust pullback travel speed	140 fpm	43 m/min
Thrust force	17,000 lb.	75.6 kN
Pullback force	20,000 lb.	89 kN
Bore diameter	4 in.	102 mm
Ground travel speed		
Forward/reverse	3.2 mph	5.2 km/h

POWER (TIER 4) (HRC)

Engine	Deutz® TD2.9L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	177 in³	2.9 L
Bore	3.62 in	92 mm
Stroke	4.33 in	110 mm
Manufacturer's gross power rating	74 hp	55 kW
Rated speed	2,600 rpm	
Emissions compliance	EPA Tier 4	EU Stage IIIB

POWER (TIER 4) (LRC)

Engine	Deutz TD2.9L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	177 in ³	2.9 L
Bore	3.62 in	92 mm
Stroke	4.33 in	110 mm
Manufacturer's gross power rating	74 hp	55 kW
Rated speed	2,600 rpm	
Emissions compliance	EPA Tier 4i	EU Stage IIIA

DIMENSIONS	U.S.	METRIC
Length	207 in.	5.26 m
Width	51.5 in.	1.31 m
Height	90 in.	2.29 m
Weight w/pipe	11,890 lb.	5398 kg
Entry angle	10-14°	
Angle of approach	18°	
Angle of departure	18°	

DRILLING FLUID SYSTEM (ONBOARD)

Pressure, max	1,000 psi	69 bar
Flow, max	35 gpm	132 L/min

FLUID CAPACITIES

Hydraulic reservoir	19 gal.	72 L
Fuel tank	30 gal.	114 L
Engine oil w/filter	8.5 qt.	8 L
Engine cooling system	4.6 gal.	17 L

POWER PIPE® HD

Length of drill pipe, nominal	120 in.	3.05 m
Diameter of drill pipe, tool joint end	2.63 in.	66.8 mm
Diameter of drill pipe	2.66 in.	67.3 mm
Bend radius, min	107 ft.	32 m
Weight of drill pipe, lined	67 lb.	30.4 kg

POWER PIPE FORGED HD

Length	120 in.	3.05 m
Diameter of drill pipe, tool joint end	2.5 in.	63.5 mm
Diameter of drill pipe	2.10 in.	53.3 mm
Bend radius, min	109 ft.	33.2 m

POWER PIPE FORGED HDX

Length	120 in.	3.05 m
Diameter of tool joint	2.63 in.	66.8 mm
Diameter of drill pipe	2.38 in.	60.5 mm
Bend radius, min	123 ft.	37.5 m

BATTERY

SAE reserve capacity rating	195 min.
SAE cold crank rating (30°F / -18°C)	950 amps

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.



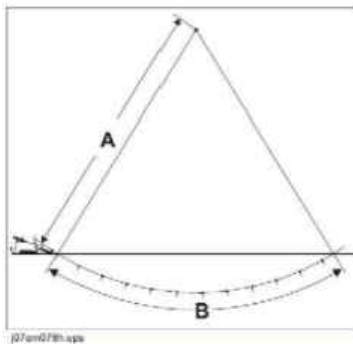
JT20 Operator's Manual
Plan Bore Path

Prepare - 69

Bend Radius

JT20 Power Pipe® HD drill pipes have a tested minimum bend radius of 107' (32.6 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 107' (32.6 m)
- requires approximately 168' (51.2 m) of drill pipe (B).



JT20 Ditch Witch® Forged HD drill pipes have a tested minimum bend radius of 109' (33.2 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 109' (33.2 m)
- requires approximately 171' (52.1 m) of drill pipe (B).

JT20 Forged drill pipes have a tested minimum bend radius of 108' (32.9 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 108' (32.9 m)
- requires approximately 170' (51.8 m) of drill pipe (B).

NOTICE: Bending drill pipe more sharply than recommended will damage the pipe and cause failure over time.

- If bend radius is reduced, drill pipe life is reduced.
- If bend radius is increased, drill pipe life is increased.

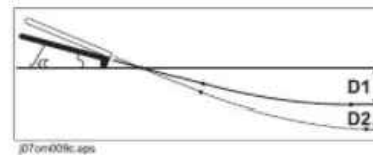
IMPORTANT: Use the charts on the next page to keep bends within safe limits.

JT20 Operator's Manual
Plan Bore Path

Prepare - 73

Minimum Depth

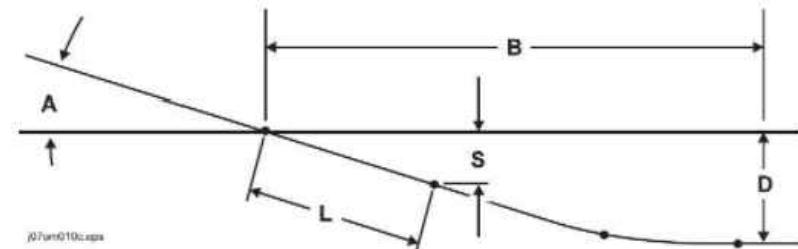
Because you must bend pipe gradually, entry pitch and bend limits determine how deep the pipe will be when it becomes horizontal. This is called the **minimum depth**.



- To reduce minimum depth (D1), reduce entry pitch. This also decreases setback.
- To increase minimum depth (D2), increase entry pitch. This also increases setback.

Bore Path Calculator

Entry pitch, setback, and minimum depth work together with bend limits to determine the bore path. To find the setback (B) and entry pitch (A) that will take you to the desired minimum depth (D), use the chart below.



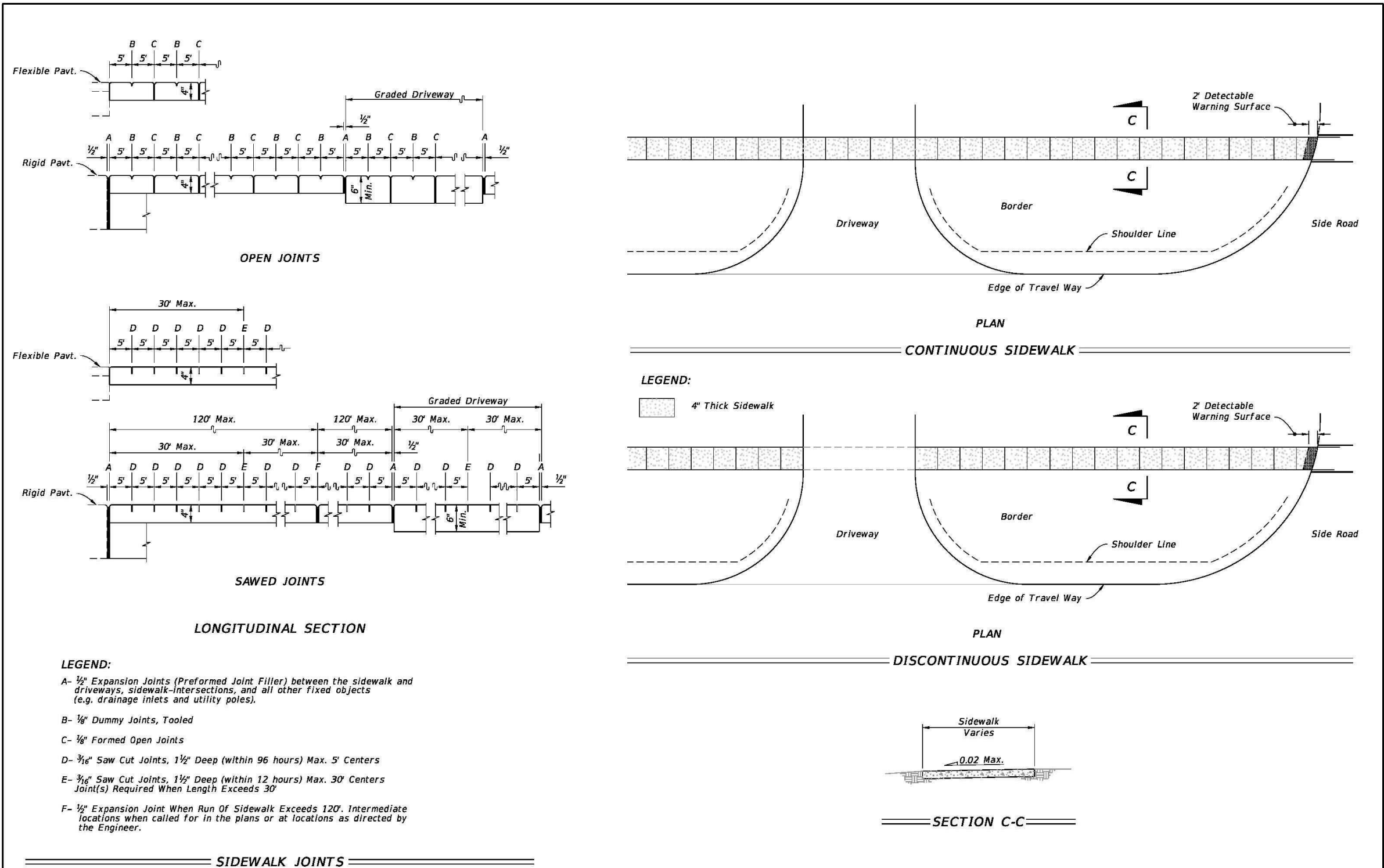
IMPORTANT: Numbers in table based on **drill pipe minimum bend radius**, beacon housing, EZ-Connect, connector, transition sub, and 1/3 of first drill pipe (L, totaling 8' 8" [2.6 m]) in the ground before steering.

Power Pipe® HD

Minimum depth (D)	Entry pitch (A)	Setback (B)	Depth to begin steering (S)
3 ft 3 in (1 m)	-18%	27 ft 6 in (8.4 m)	1 ft 7 in (0.48 m)
3 ft 10 in (1.2 m)	-20%	29 ft 6 in (9 m)	1 ft 9 in (0.53 m)
4 ft 5 in (1.3 m)	-22%	31 ft 6 in (9.6 m)	1 ft 11 in (0.58 m)
5 ft 0 in (1.5 m)	-24%	33 ft 5 in (10.2 m)	2 ft 1 in (0.64 m)
5 ft 8 in (1.7 m)	-26%	35 ft 4 in (10.8 m)	2 ft 3 in (0.69 m)

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-001				
LOCATION: 19900 PINES BLVD PEMBROKE PINES, FL 33029				
DRAWING NAME: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 09 OF 14				

CONFIDENTIAL/PROPRIETARY SHEET: 10 OF 14



LAST REVISION 11/01/18	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	CONCRETE SIDEWALK	INDEX 522-001	SHEET 2 of 2
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3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
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CONFIDENTIAL/PROPRIETARY				
SHEET: 11 OF 14				

SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/Oversize Vehicles Lane Widths High-Visibility Safety Apparel Speed Reduction Signing
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
7	Manholes/Crosswalks/Joints Truck Mounted Attenuators Signals Channelizing Devices Channelizing Devices Consistency Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance Temporary Asphalt Separator
10	Channelizing Devices Notes Temporary Barrier Notes
11	Pavement Markings

GENERAL NOTES:

1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1 CHANNELIZING DEVICE SPACING				
Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100


TABLE 2 TAPER LENGTH "L"	
Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$
Where: W = width of offset in feet S = speed in mph	

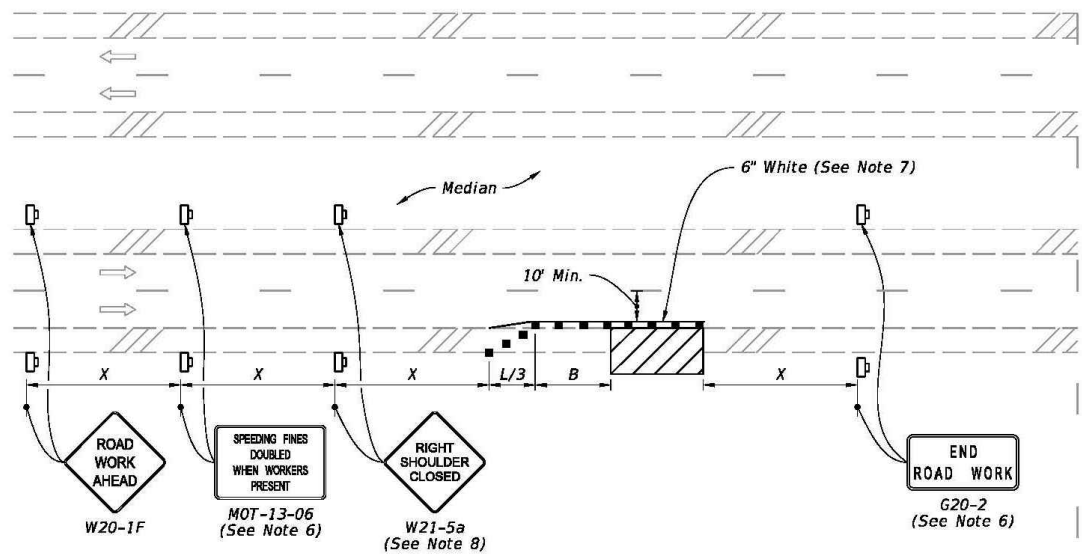
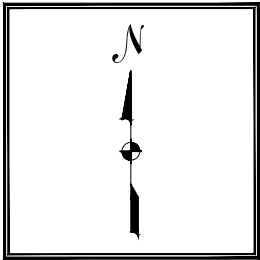
TABLE 3 WORK ZONE SIGN SPACING "X"	
Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500
* For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.	

TABLE 4 BUFFER LENGTH "B"	
Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.	

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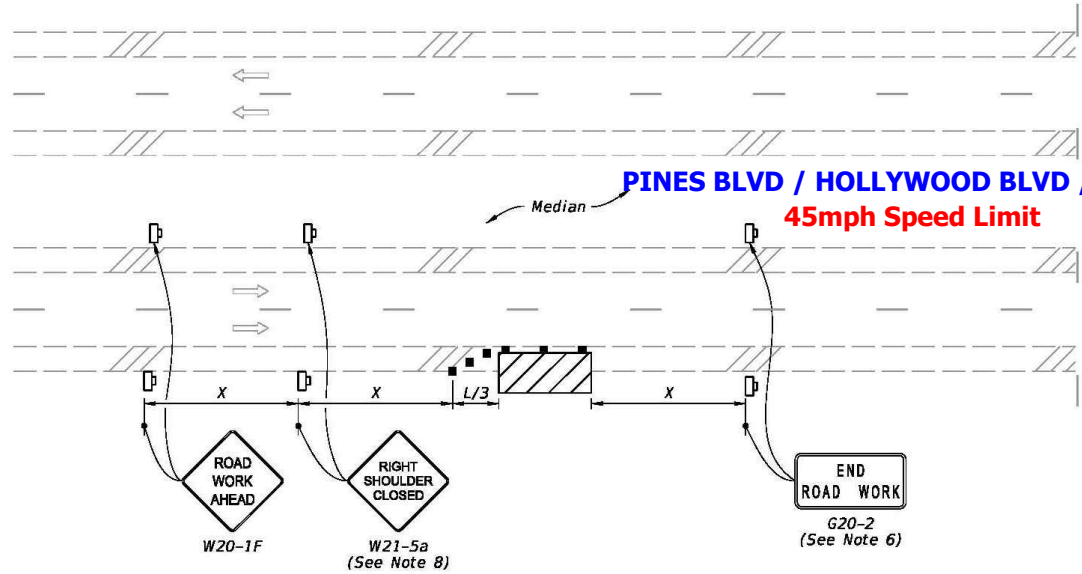
LAST REVISION 11/01/20	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX 102-600	SHEET 1 of 11
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3				AS-BUILT
2				REVISION # 1
1	052824	KMV	JL	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
 PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-001				
LOCATION: 19900 PINES BLVD PEMBROKE PINES, FL 33029				
DRAWING NAME: KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 12 OF 14				



DO NOT APPLY

MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



PINES BLVD / HOLLYWOOD BLVD / SR 820
45mph Speed Limit

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

- SYMBOLS:
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic

2/27/2023 10:53:38 AM

LAST REVISION 11/01/20	DESCRIPTION: PROPOSAL UNDERGROUND CONDUITS IN R/W PINES BLVD / HOLLYWOOD BLVD / SR 820	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
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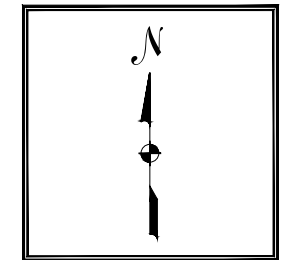
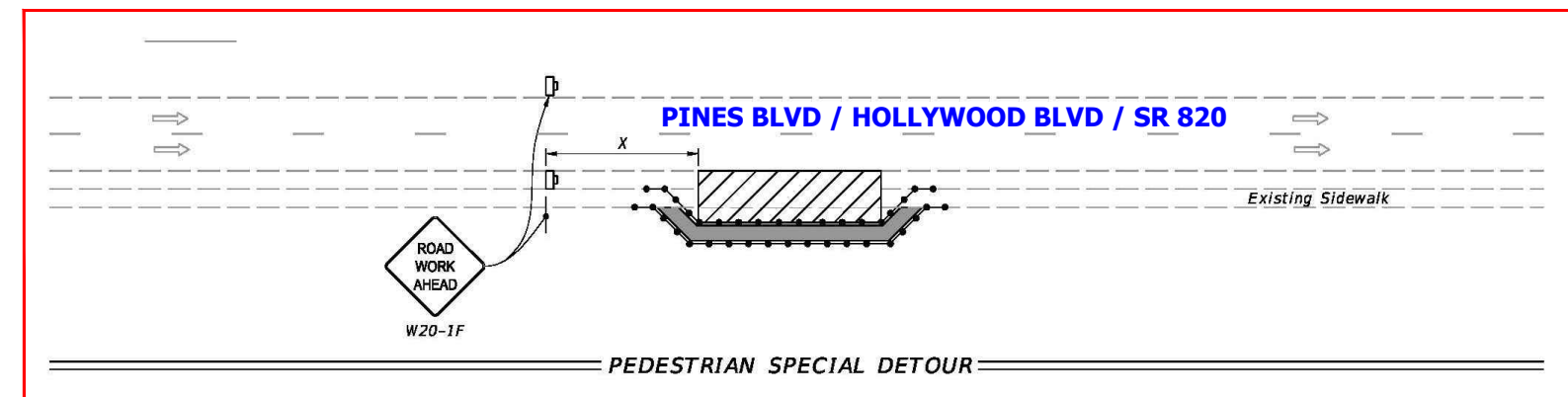
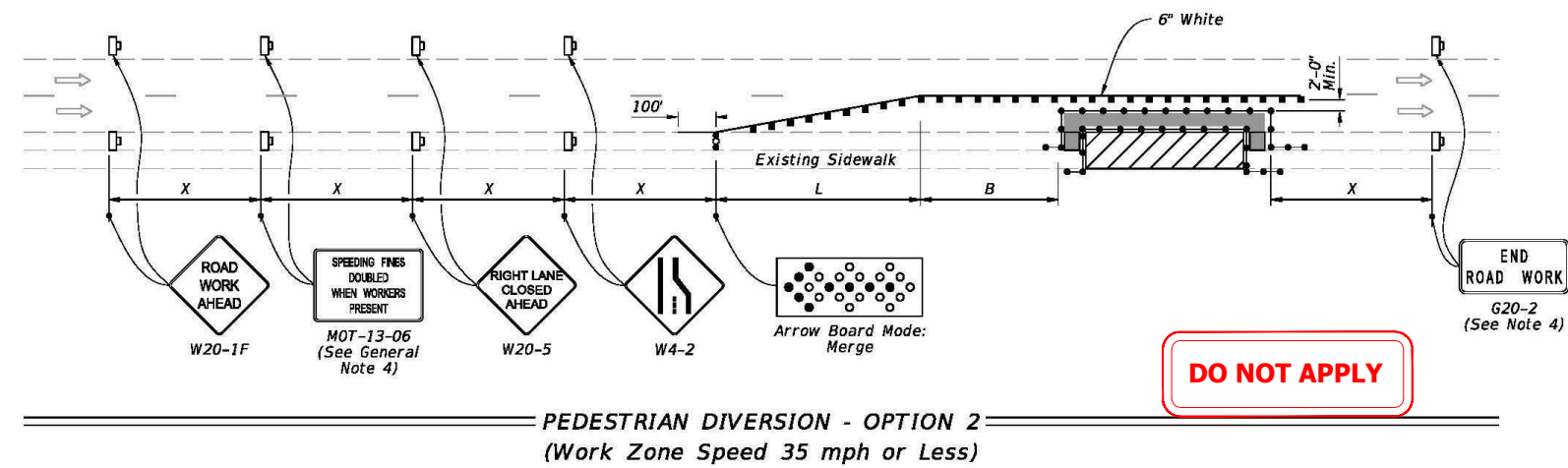
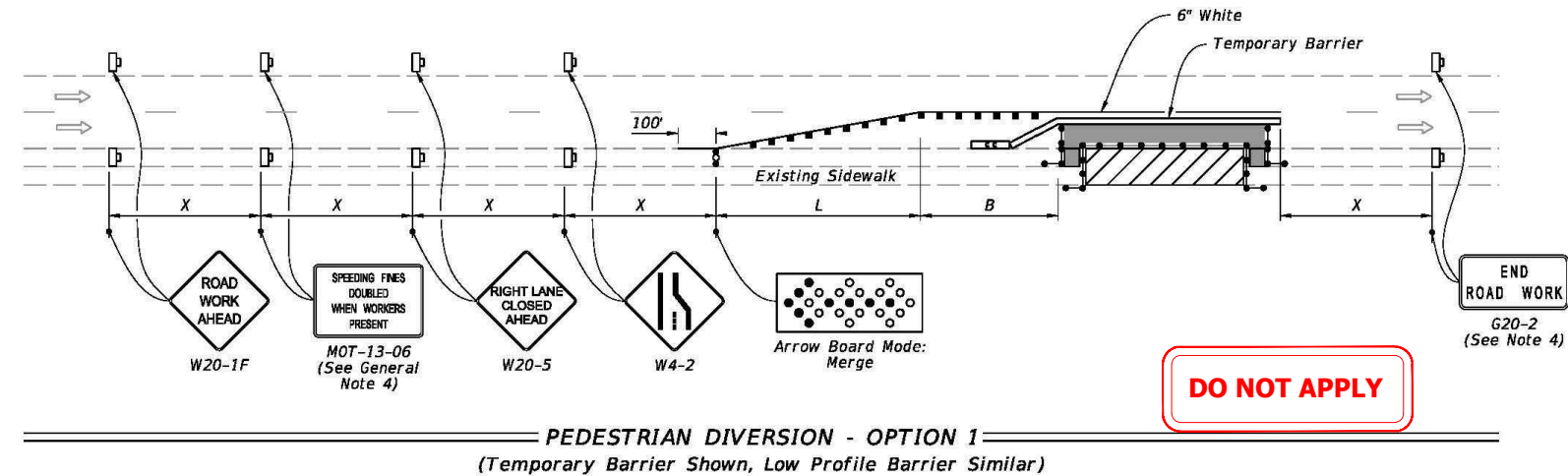
3				AS-BUILT
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CONFIDENTIAL/PROPRIETARY SHEET: 13 OF 14				

NOTES:

1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

SYMBOLS:

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



2/21/2023 10:19:10 AM

LAST REVISION	DESCRIPTION:	FY 2023-24	INDEX	SHEET
11/01/21	PROPOSAL UNDERGROUND CONDUITS IN R/W PINES BLVD / HOLLYWOOD BLVD / SR 820	STANDARD PLANS	102-660	2 of 2

NO.	DATE	ENG	DESIGN	DRAFTING	COMMENT
3					AS-BUILT
2					REVISION # 1
1	052824	KMV	JL		ORIGINAL

	PEMBROKE PINES
CHECKED BY:	GIULIANO LEON
ENGINEERING FIRM:	KMV FIBERTELECOM INC
PROJECT NUMBER:	KMV-PP-24-001
LOCATION:	19900 PINES BLVD PEMBROKE PINES, FL 33029
DRAWING NAME:	KMV-PP-24-001 - FIRE STATION 79 TO WEST PINES SOCCER FIELD BUILDING 4-4-24.dwg
CONFIDENTIAL/PROPRIETARY	SHEET: 14 OF 14

PROJECT: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24
ADDRESS: 901 NW 129TH AVE, PEMBROKE PINES, FL 33028 - **ENGINEERING**



CONTACTS

PEMBROKE PINES

JOHN L.ENGLAND
DESIGN ENGINEER
PHONE: (954) 518-8905
JENGLAND@PPINES.COM

KMV FIBERTELECOM INC

SANDRA KARINA VARGAS
10604 NW 48TH ST
CORAL SPRINGS FL 33076
PHONE: 954-937-5239
KARINAV@KMFVIBERTELEC



SITE INDEX









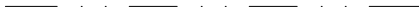



















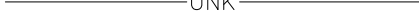

01 OF 15 - COVER SHEET/SITE LOCATION
02 OF 15 - OVERALL MAP
03 OF 15 TO 04 OF 15 - CONSTRUCTION NOTES
05 OF 15 TO 07C OF 15 - PLAN VIEWS & PROFILES
08 OF 15 - PHOTOGRAPHS
09 OF 15 TO 10A OF 15 - TYPICAL
11 OF 15 TO 15 OF 15 - MOTs

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT



CHECKED BY:	GIULIANO LEON
ENGINEERING FIRM:	KMV FIBERTELECOM INC
PROJECT NUMBER:	KMV-PP-24-002
LOCATION:	901 NW 129TH AVE PEMBROKE PINES, FL 33028
DRAWING NAME:	KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg
CONFIDENTIAL/PROPRIETARY	SHEET: 01 OF 15

LINETYPES

	UG FIBER - EXISTING
	UG FIBER - PROPOSED
	AERIAL FIBER - EXISTING
	AERIAL FIBER - PROPOSED
	STRAND - EXISTING
	STRAND - PROPOSED
	CONDUIT - EXISTING
	CONDUIT - PROPOSED
	INNERDUCT - EXISTING
	INNERDUCT - PROPOSED
	ASBUILT CONDUIT
	GAS
	TRAFFIC
	WATER
	TELEPHONE
	ELECTRIC
	STREET LIGHT
	FOC
	FORCE MAIN
	SANITARY SEWER (SEW)
	STORM DRAIN
	RECLAIMED WATER
	FENCE
	CABLE TV
	STEAM
	OIL
	UNKNOWN UTILITY
	RIGHT OF WAY
	EDGE OF PAVEMENT
	EASEMENT



SITE LOCATION

SCALE: NTS

[illegible]**PERMITTING**

JURISDICTION:

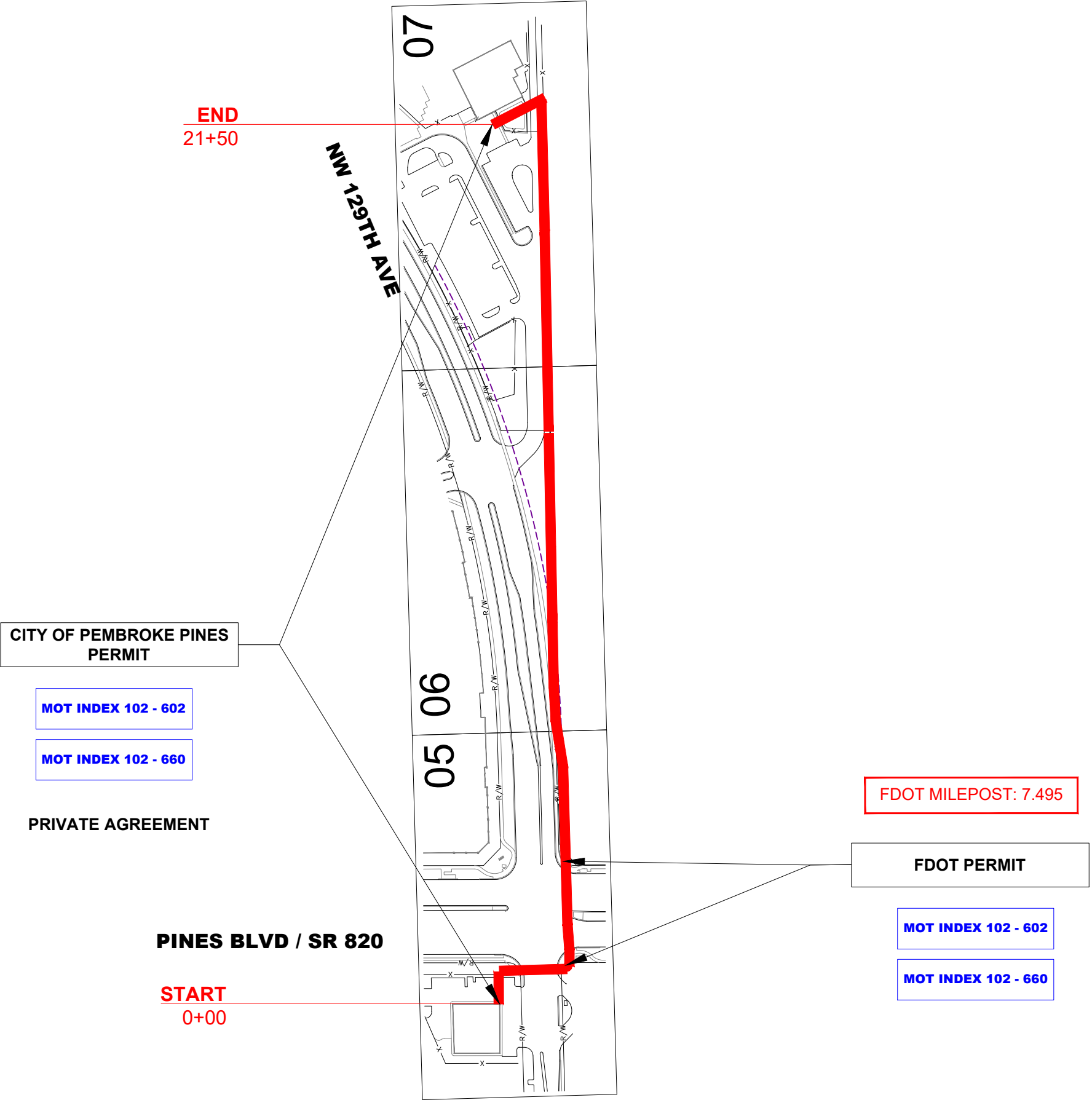
- * CITY OF PEMBROKE PINES
- * FDOT

DATE SUBMITTED


05/28/24

TWP : 51S	RNG : 40E	SEC : 14
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PLAT BOOK : -	PAGE : -
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SCALE: NTS

3				AS-BUILT
2				REVISION # 1
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CONFIDENTIAL/PROPRIETARY				
SHEET: 02 OF 15				

CONSTRUCTION NOTES

TYPICAL UNDERGROUND CONSTRUCTION:

- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
- CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DISTANCES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION AND CONDITION OF EXISTING CONDUIT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- MAINTAIN MINIMUM 24" VERTICAL AND HORIZONTAL SEPARATION BETWEEN PROPOSED BY PEMBROKE PINES DUCTS & EXISTING UTILITIES.
- MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.
- ANY CHANGES ON PROPOSED RUNNING LINE HAVE TO GET APPROVAL FROM PEMBROKE PINES CONSTRUCTION MANAGER.


FOR CONSTRUCTION:

- EXTREME CAUTION TO BE TAKEN TO CONTAIN SLURRY AROUND WORK AREAS NEAR WETLANDS TO AVOID ANY WATER QUALITY ISSUES!
- LOCATIONS, ELEVATIONS LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER SITE FEATURES SHOWN ON THE DRAWINGS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. PLEASE CONTACT SUNSHINE STATE ONE-CALL AT 1-800-432-4770
- **CAUTION:** EXISTING UNDERGROUND UTILITIES IN AREA. NO ELEVATION RECORDS FOR EXISTING UTILITIES AVAILABLE. CONTRACTOR SHOULD CONTACT SUNSHINE 811, LOCATE ALL UTILITIES AND VERIFY ALL DEPTHS PRIOR TO CONSTRUCTION

DESIGN TICKET
#121405467


CITY OF PEMBROKE PINES GENERAL NOTES

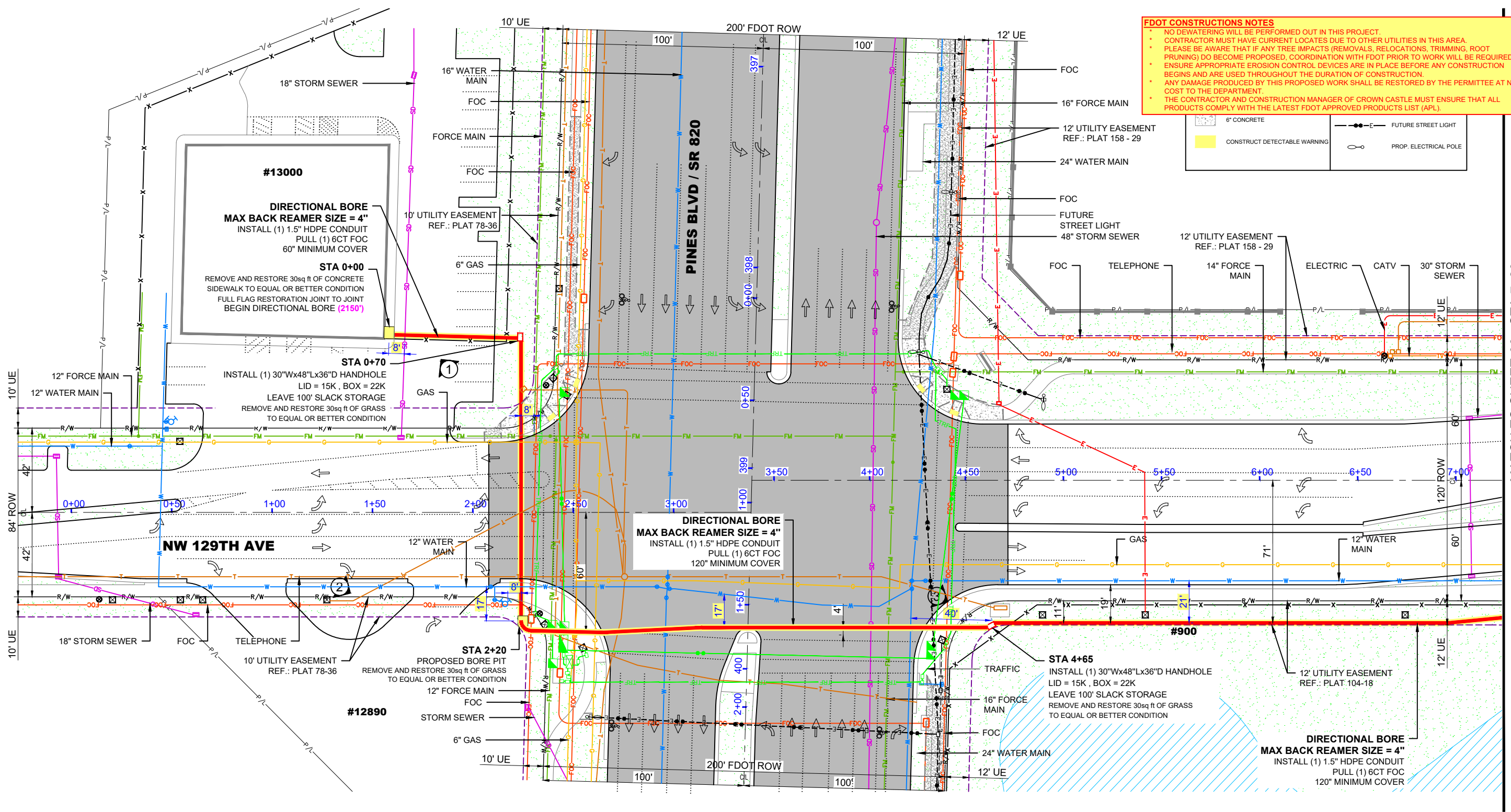
- THE CITY OF PEMBROKE PINES ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE LOCATIONS AND ELEVATIONS OF CITY UTILITIES AS REFLECTED ON THE DRAWINGS BASED UPON INFORMATION PROVIDED FROM CITY RECORDS NOR DOES THE CITY GUARANTEE THE COMPLETENESS OF THE CITY UTILITIES INFORMATION AS PROVIDED FROM CITY RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND UTILITY OWNER TO FIELD LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES IN THE WORK AREA FOR THE ENTIRE LIMITS OF THE PROJECT.
- A MINIMUM OF 7.5' OF HORIZONTAL SEPARATION AND A MINIMUM OF 18" OF VERTICAL SEPARATION SHALL BE MAINTAINED TO ALL CITY OF PEMBROKE PINES UTILITIES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL CROSSINGS OF THE PROPOSED DIRECTIONAL BORE AND OPEN TRENCH INSTALLATION WITH CITY UTILITIES SHALL BE VERIFIED FOR CONFIRMATION OF MINIMUM VERTICAL SEPARATION REQUIREMENTS BY WAY OF "SOFT DIG" METHODS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL CALL "SUNSHINE ONE" AT 1-800-432-4770 OR 811 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION TO ALLOW FOR "FIELD LOCATES" OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- ALL STREET, SIDEWALK AND SWALE (SOD) RESTORATION SHALL COMPLY WITH CITY STANDARDS AND/OR SPECIFICATIONS, UNLESS THE STANDARDS AND/OR SPECIFICATIONS OF ANOTHER PERMITTING GOVERNMENTAL AGENCY SUPERCEDES THOSE OF THE CITY.
- A M.O.T. PLAN PREPARED BY A F.D.O.T. CERTIFIED M.O.T. ENGINEER SHALL BE SUBMITTED FOR CONSTRUCTION PERMIT BASED UPON THE SCOPE OF THE PROPOSED PROJECT AND EXISTING ROADWAY/STREET CONDITIONS.
- A PRECONSTRUCTION MEETING IS REQUIRED TO BE HELD WITH THE ENVIRONMENTAL SERVICES/ENGINEERING DIVISION AS A PREREQUISITE TO THE CITY'S RELEASE OF THE CONSTRUCTION PERMIT.
- MAINTENANCE OF TRAFFIC (M.O.T.) SHALL BE PROVIDED BY A F.D.O.T. CERTIFIED M.O.T. CONTRACTOR.

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
<div> PEMBROKE PINES</div>				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY			SHEET: 03 OF 15	

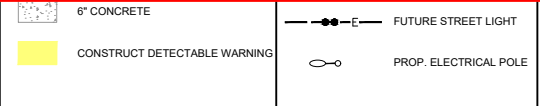
CONSTRUCTION NOTES - FDOT

- EXISTING F.D.O.T. DRAINAGE SYSTEM SHALL BE PROTECTED AT ALL TIMES BY THE PERMITTEE. ANY DAMAGE TO THE F.D.O.T. DRAINAGE SYSTEM (STRUCTURES OR PIPES) SHALL BE REPAIRED/REPLACED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.
- EXISTING GAS MAIN SHALL BE PROTECTED AT ALL TIMES DURING EXCAVATION, DRILLING AND CONDUIT INSTALLATION ACTIVITIES. UTILITY GAS COMPANY SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING AND GIVE WRITTEN CLEARANCE PRIOR TO COMMENCEMENT OF ANY PERMIT OPERATIONS.
- ANY DAMAGE TO CONCRETE SIDEWALK, CURB AND GUTTER, PEDESTRIAN CURB RAMPS, AND TRAFFIC SEPARATORS SHOULD BE RESTORED PER FDOT STANDARDS PLANS INDEX NO. 522-001, 520-001, 522-002, AND 520-020, ADA STANDARDS, AND FDOT STANDARD SPECIFICATION 522. DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. IMPACTED PEDESTRIAN RAMPS SHALL BE REPLACED COMPLETELY; HANDHOLES MUST NOT BE LOCATED WITHIN PEDESTRIAN RAMPS. MAKE SURE TO FURNISH APPROPRIATE EXPANSION JOINTS PER FDOT STANDARDS PLANS INDEX 350-001. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527.
- HANDHOLES AND PULL BOXES SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF EXISTING PEDESTRIAN ADA CURB RAMP NEITHER DRIVEWAY ENTRY AREA. REFER TO PPM, VOL. 2, CH. 8, SECTION 8.3.2 REGARDING NONSLIP TOP SURFACE IF THE HAND HOLE IS PROPOSED WITHIN PEDESTRIAN CURB RAMP. DO NOT INSTALL NEW HH AT LEAST 10' FROM ADA CURB RAMPS, FIRE HYDRANTS, BUS BOOTH-BENCHES
- WHERE PEDESTRIAN FACILITIES ARE DETOURED, BLOCKED, OR CLOSED DURING THE WORK, PLEASE ENSURE TO PROVIDE SAFE ALTERNATE ACCESSIBLE ROUTES THROUGH OR AROUND THE WORK ZONE THAT MEETS THE REQUIREMENTS OF THE ADA STANDARDS AND FDOT STANDARD PLAN INDEX 102-660.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-2024 STANDARD INDEX No 570-001.
- PROVIDE PROTECTION TO THE EXISTING TREES AND AVOID ANY IMPACT TO THE ROOTS. WHEN CONSTRUCTION AFFECTS TREE ROOTS OR CANOPY, PROVIDE TRIMMING PER FDOT STANDARD PLANS INDEX 110-100.
- PROVIDE APPROPRIATE EROSION CONTROL DEVICES DURING CONSTRUCTION.
- LANDSCAPING, TREES, SOD SHALL BE REPLACED AT THE COST OF THE PERMITTEE
- THE CONTRACTOR SHALL COORDINATE WITH BROWARD COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW), TRAFFIC SIGNALS & SIGNS DIVISION AT LEAST 5 WORKING DAYS PRIOR TO ANY WORK DONE AT SIGNALIZED INTERSECTIONS , WHICH EITHER CLOSE ANY LANES, NEED CHANGES IN THE SIGNAL OPERATION OF TIMING, DAMAGE OR HINDER ANY SIGNAL SENSOR, OR DAMAGE ANY CABLE OR SIGNAL EQUIPMENT.
- PERMITTEE IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL DRILLING/TRENCH WORK AND ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE DONE TO UNDERGROUND FACILITIES AND ABOVE GROUND FACILITIES. DIRECTIONAL BORING SHALL BE CONDUCTED ACCORDING TO LATEST SECTION 555 OF FDOT'S STANDARD SPECIFICATIONS AND 3.16.9.1 OF THE 2017 U.A.M. OPEN TRENCH SHALL BE CARRIED OUT PER 3.16.4. OF 2017 U.A.M
- CONDUIT INSTALLATION SHALL ADHERE TO THE LATEST FDOT STANDARD PLANS INDEX NO. 630-001
- ACCORDING TO SECTION 3.10 OF 2017 U.A.M, WHEN UNDERGROUND AND AERIAL UTILITIES OCCUPY THE SAME ROADSIDE, UNDERGROUND UTILITIES SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE R/W LINE.
- DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. RESTORATION SHALL MATCH EXISTING CONCRETE PATTERN, PAVERS, AND COLOR. IMPACTED PEDESTRIAN RAMPS AND DRIVEWAYS SHALL BE REPLACED COMPLETELY. INCLUDE 1 FOOT OF LEVEL EMBANKMENT FOR EROSION AND ENSURE TO NOT CREATE ANY DROP OFF HAZARDS AS SHOWN ON FDM FIGURE 222.4.1. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527
- PROPOSED HANDHOLES MUST ADHERE TO LATEST FDOT STANDARD PLANS INDEX NO. 635-001". ENSURE ALL HANDHOLE LIDS ON SIDEWALK ARE FLUSH AND ADA COMPLIANT. MAINTAIN THE TEMPORARY PATCHES AROUND THE HANDHOLE BOX EDGES AND/OR ANYWHERE ELSE WHERE SIDEWALK HAS BEEN IMPACTED/DAMAGED BY THE DB WORK OR UTILITY INSTALLATION, SO IT PROVIDES A SMOOTH -ALL WEATHER SURFACES ALWAYS. ONCE THE HANDHOLE IS INSTALLED THE LID MUST BE KEPT IN PLACE, BOLTED, AND SECURED.
- TEMPORARY BARRIERS FOR PEDESTRIAN DETOURS MUST COMPLY WITH THE LATEST FDOT STANDARD PLANS INDEX NO. 102-100.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-24 DESIGN STANDARDS INDEX 570-010.
- PERMITTEE MUST TAKE PICTURES OF THE EXISTING STREET LIGHTNING SYSTEM WORKING-DURING NIGHT-TIME-WITHIN THE LIMITS OF THIS PROPOSED JOB PRIOR TO BEGIN SAID WORK. TO AVOID FUTURE DISPUTE ABOUT UNFORESEEN DAMAGES TO THE LIGHTNING SYSTEM.
- CONTAMINATED SITES LOCATED WITHIN A 500-FOOT RADIUS OF THE PROJECT AREA THAT COULD IMPACT THE FDOT ROW HAVE BEEN IDENTIFIED. THE PERMITTEE SHALL ASSURE THAT ANY ACTIONS CARRIED OUT ARE IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATORY REQUIREMENTS.
- ANY ABOVEGROUND FEATURES THAT MAY BE IMPACTED BY PROPOSED WORK MUST BE IDENTIFIED TO BE ADJUSTED/RELOCATED/REPLACED. IF SIGNS ADD ARE DAMAGED, THESE MUST BE REPLACED ACCORDING THE LATEST FDOT STANDARD PLANS INDEX NO. 700-101. ENSURE LATERAL OFFSET AND CLEAR ZONE STANDARDS ARE BEING ADHERED TO.

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CONFIDENTIAL/PROPRIETARY			SHEET: 04 OF 15	



- FDOT CONSTRUCTIONS NOTES**
- NO DEWATERING WILL BE PERFORMED OUT IN THIS PROJECT.
 - CONTRACTOR MUST HAVE CURRENT LOCATES DUE TO OTHER UTILITIES IN THIS AREA.
 - PLEASE BE AWARE THAT IF ANY TREE IMPACTS (REMOVALS, RELOCATIONS, TRIMMING, ROOT PRUNING) DO BECOME PROPOSED, COORDINATION WITH FDOT PRIOR TO WORK WILL BE REQUIRED.
 - ENSURE APPROPRIATE EROSION CONTROL DEVICES ARE IN PLACE BEFORE ANY CONSTRUCTION BEGINS AND ARE USED THROUGHOUT THE DURATION OF CONSTRUCTION.
 - ANY DAMAGE PRODUCED BY THIS PROPOSED WORK SHALL BE RESTORED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.
 - THE CONTRACTOR AND CONSTRUCTION MANAGER OF CROWN CASTLE MUST ENSURE THAT ALL PRODUCTS COMPLY WITH THE LATEST FDOT APPROVED PRODUCTS LIST (APL).



PLAN VIEW
SCALE: 1"=50'

- CITY OF PEMBROKE PINES GENERAL NOTES**
- THE CITY OF PEMBROKE PINES ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE LOCATIONS AND ELEVATIONS OF CITY UTILITIES AS REFLECTED ON THE DRAWINGS BASED UPON INFORMATION PROVIDED FROM CITY RECORDS NOR DOES THE CITY GUARANTEE THE COMPLETENESS OF THE CITY UTILITIES INFORMATION AS PROVIDED FROM CITY RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND UTILITY OWNER TO FIELD LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES IN THE WORK AREA FOR THE ENTIRE LIMITS OF THE PROJECT.
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NOTE: AS A CONDITION OF PERMIT, ALL CROSSINGS OF THE PROPOSED DIRECTIONAL BORE AND/OR OPEN TRENCH INSTALLATION WITH CITY UTILITIES SHALL BE VERIFIED FOR CONFIRMATION OF MINIMUM VERTICAL SEPARATION REQUIREMENTS BY WAY "SOFT DIG" AND/OR EXCAVATION METHODS PRIOR TO THE START OF CONSTRUCTION.
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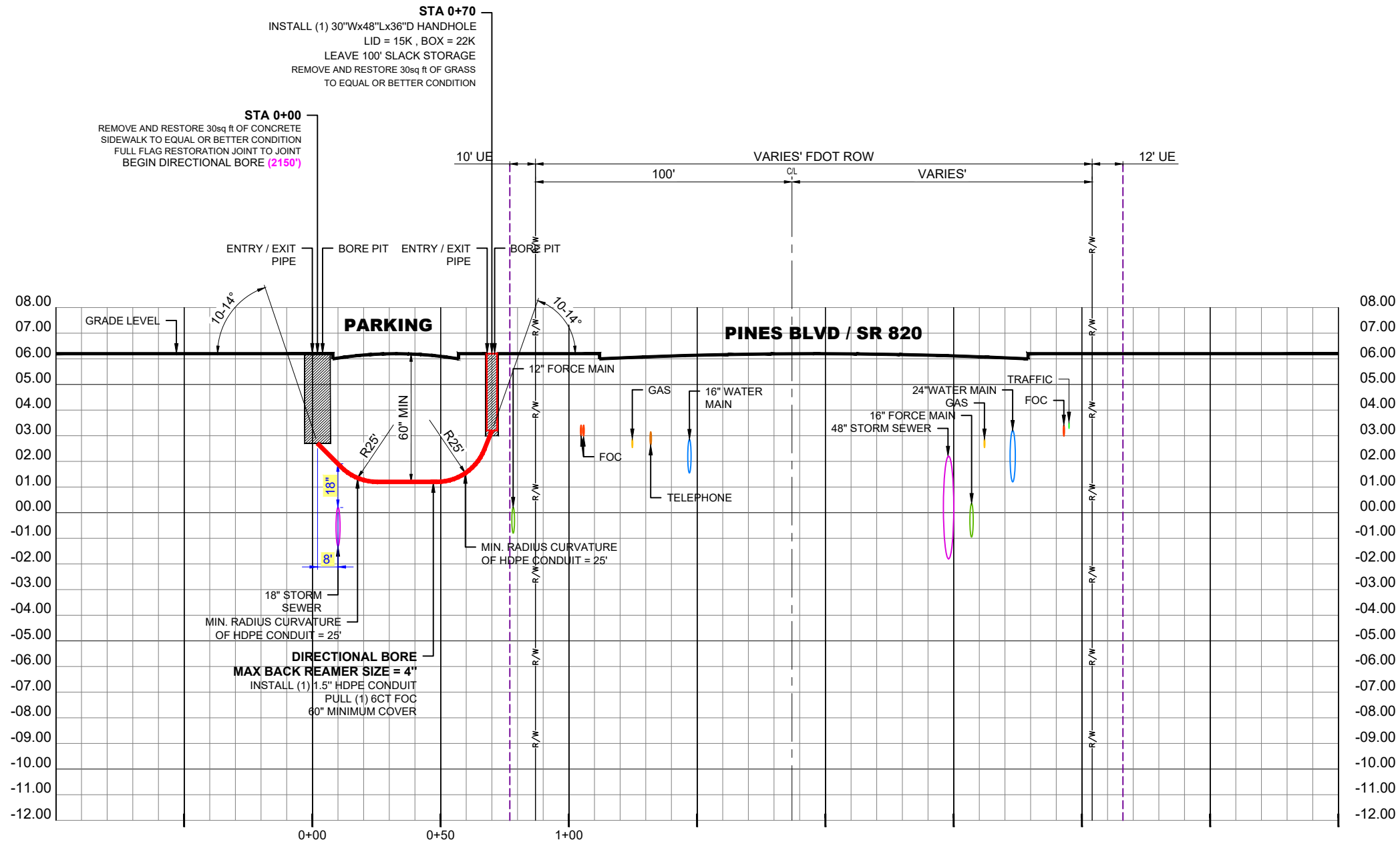
FDOT MILEPOST: 7.495

DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"

811
Know what's below.
Call before you dig.

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
CHECKED BY: GIULIANO LEON				
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CONFIDENTIAL/PROPRIETARY				
SHEET: 05 OF 15				

MATCH TO SHEET 06 - STA 7+20



PROFILE - (LOOKING WEST)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

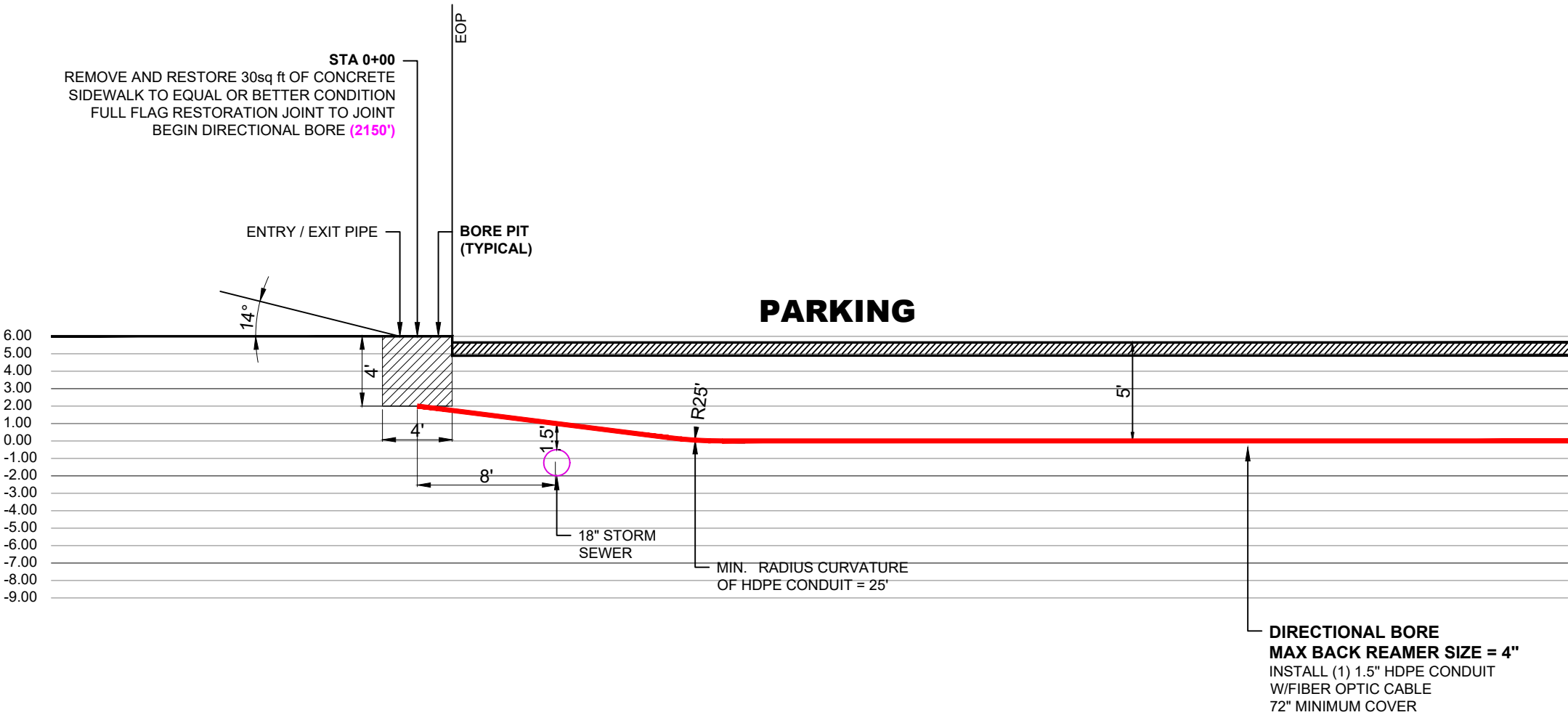
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DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"

RECORD ON UTILITY PLANS
CONSTRUCTION CONTRACTOR
SHALL CALL LOCATES AND SOFT DIG TO DETERMINE
UTILITY ELEVATION BEFORE CONSTRUCTION.



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CONFIDENTIAL/PROPRIETARY				
SHEET: 05A OF 15				



PROFILE - NW 129TH AVE (LOOKING WEST)

HORIZONTAL SCALE: 1"=8'
VERTICAL SCALE: 1"=1'

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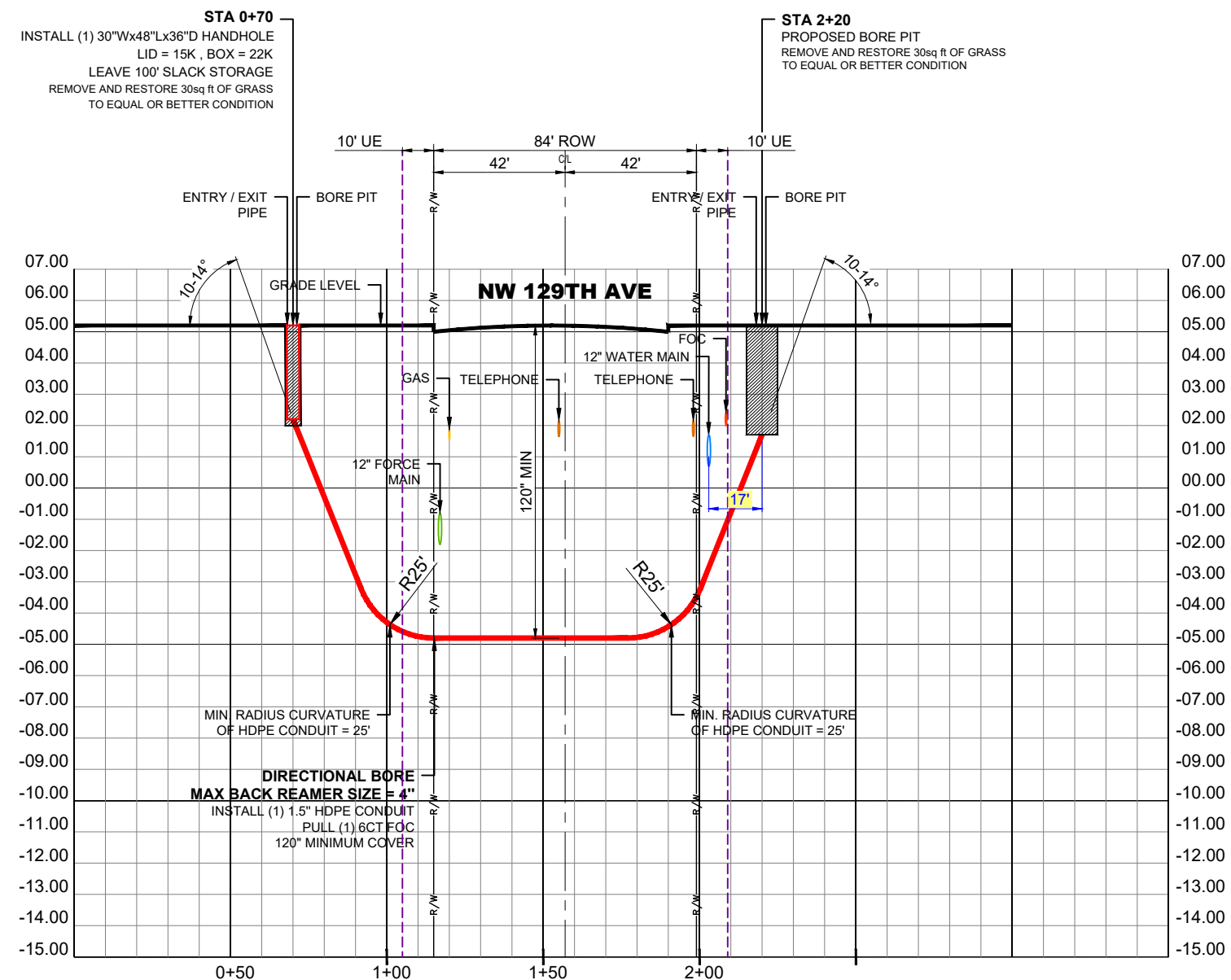
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PROFILE - NW 129TH AVE (LOOKING NORTH)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTE: AS A CONDITION OF PERMIT, ALL CROSSINGS OF THE PROPOSED DIRECTIONAL BORE AND/OR OPEN TRENCH INSTALLATION WITH CITY UTILITIES SHALL BE VERIFIED FOR CONFIRMATION OF MINIMUM VERTICAL SEPARATION REQUIREMENTS BY WAY "SOFT DIG" AND/OR EXCAVATION METHODS PRIOR TO THE START OF CONSTRUCTION. *USE EXTREME CAUTION WHEN EXCAVATING NEAR WATER AND SEWER SERVICES.

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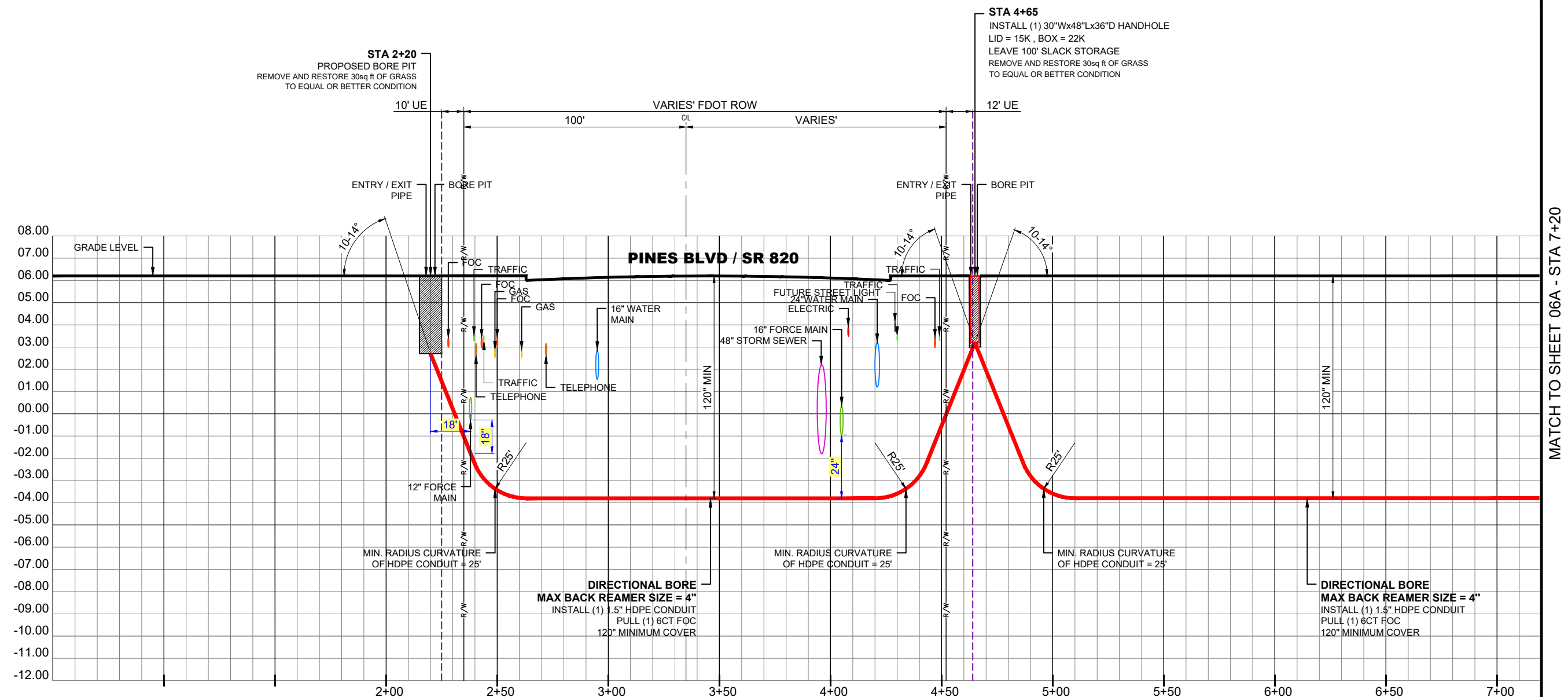
PROFILE - NW 129TH AVE (LOOKING NORTH)
 HORIZONTAL SCALE: 1"=8'
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PROFILE - NW 129TH AVE (LOOKING WEST)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

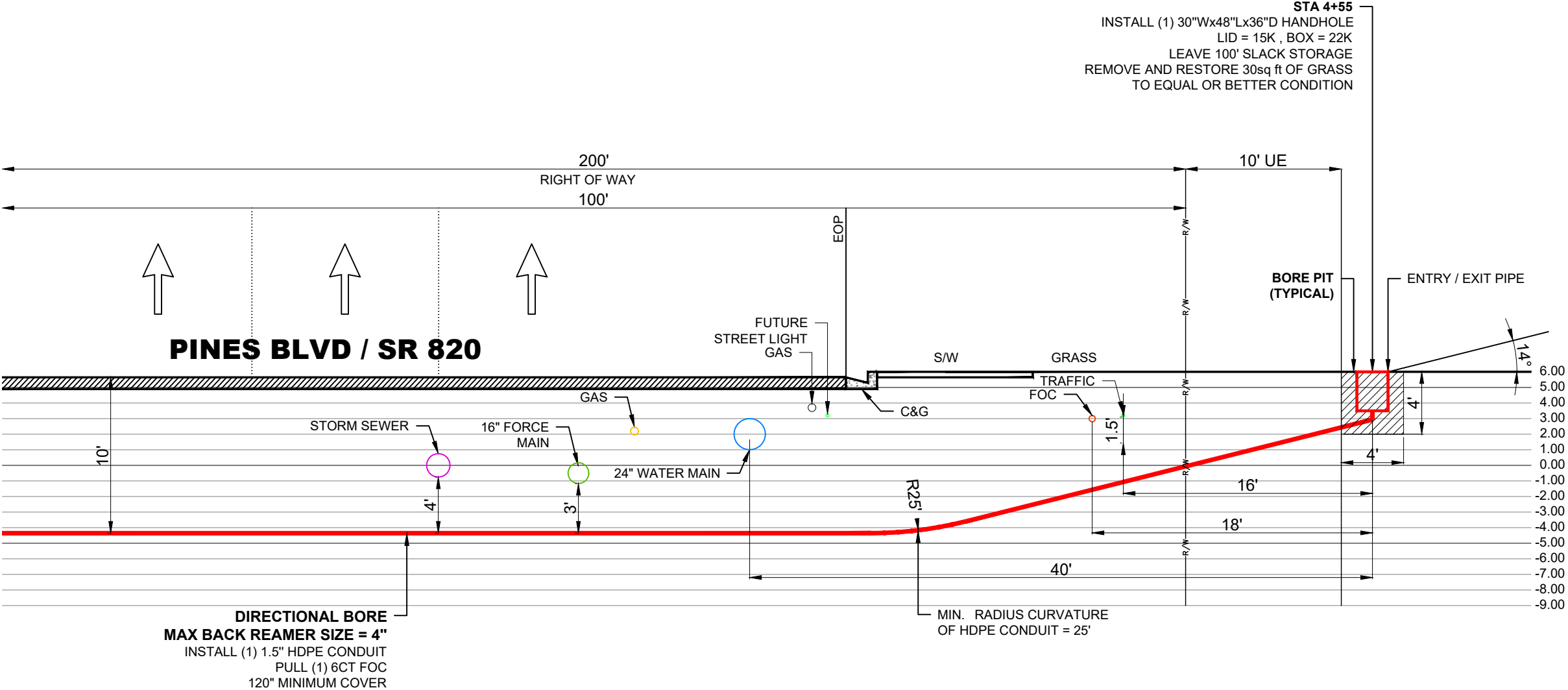
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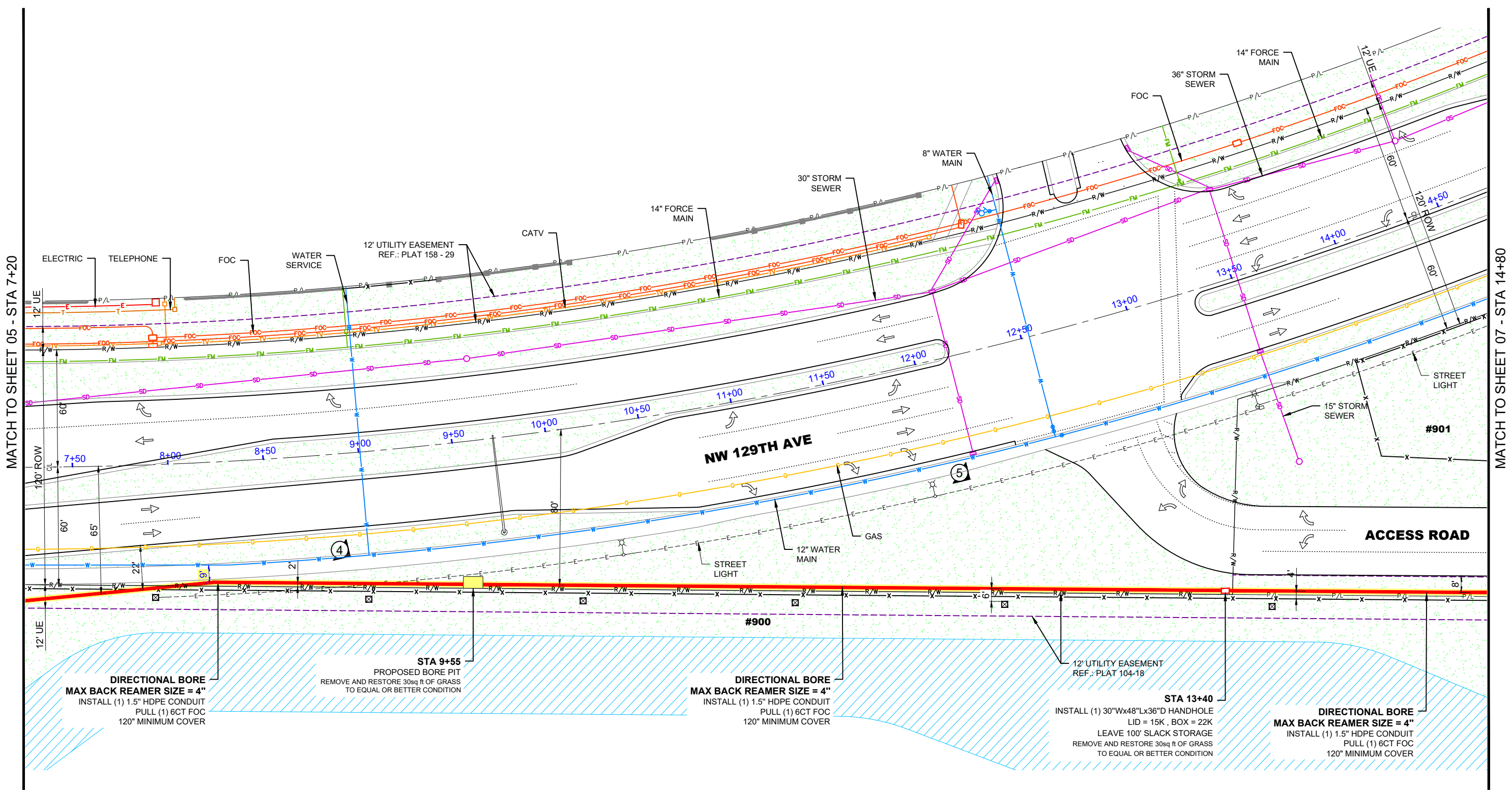
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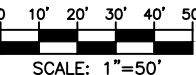
PLAN VIEW
SCALE: 1"=50'

CITY OF PEMBROKE PINES GENERAL NOTES

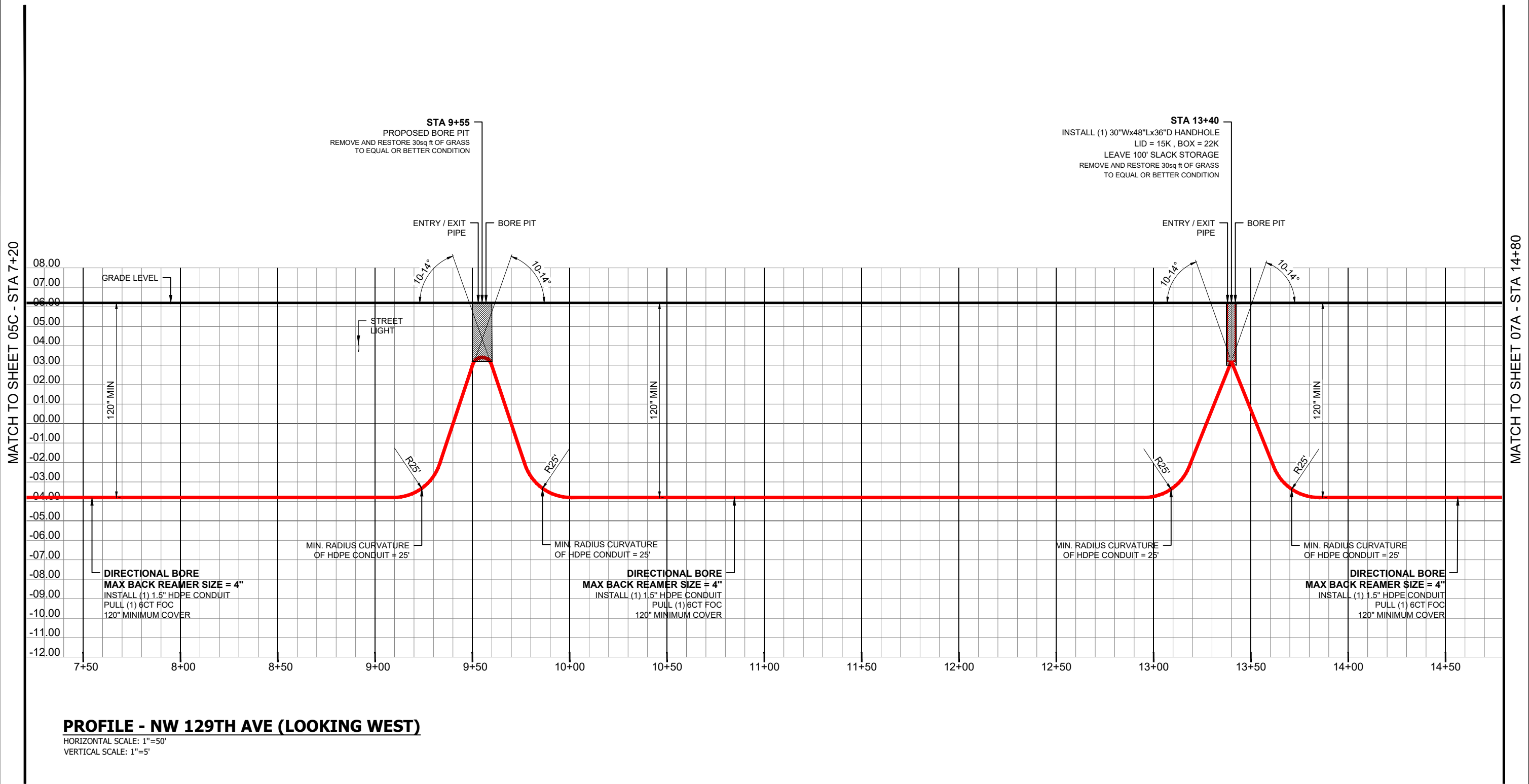
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- CONTRACTOR SHALL CALL "SUNSHINE ONE" AT 1-800-432-4770 OR 811 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION TO ALLOW FOR "FIELD LOCATES" OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
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*USE EXTREME CAUTION WHEN EXCAVATING NEAR WATER AND SEWER SERVICES.

DITCH WITCH JT20 - SPECS
ENTRY ANGLE 10-14°
BEND RADIUS, MIN 107FT
MIN DEPTH 3' 3"



3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KVM FIBERTELECOM INC				
PROJECT NUMBER: KVM-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KVM-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 06 OF 15				



PROFILE - NW 129TH AVE (LOOKING WEST)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

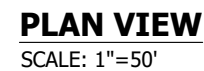
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RECORD ON UTILITY PLANS
CONSTRUCTION CONTRACTOR
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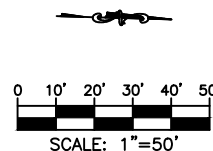



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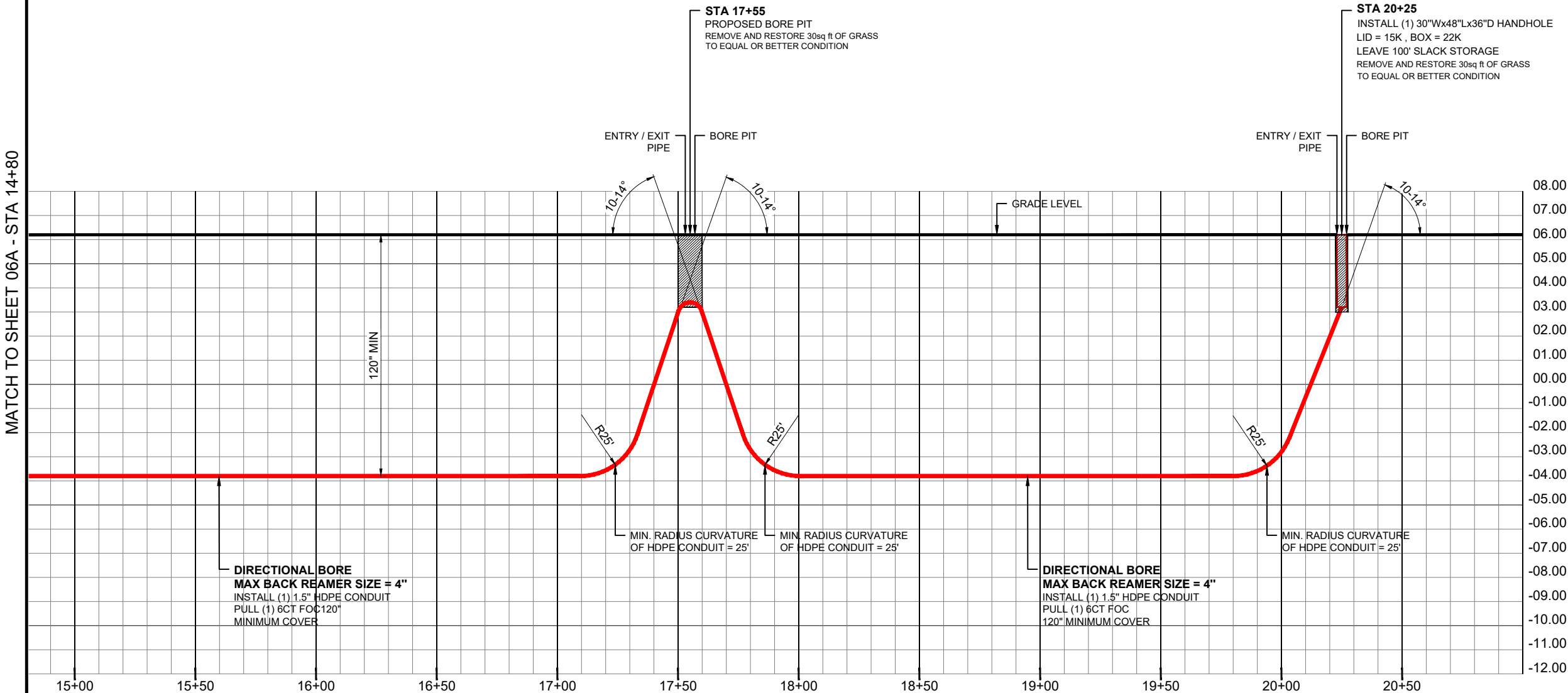


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MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
				SHEET: 07 OF 15



PROFILE - NW 129TH AVE (LOOKING WEST)

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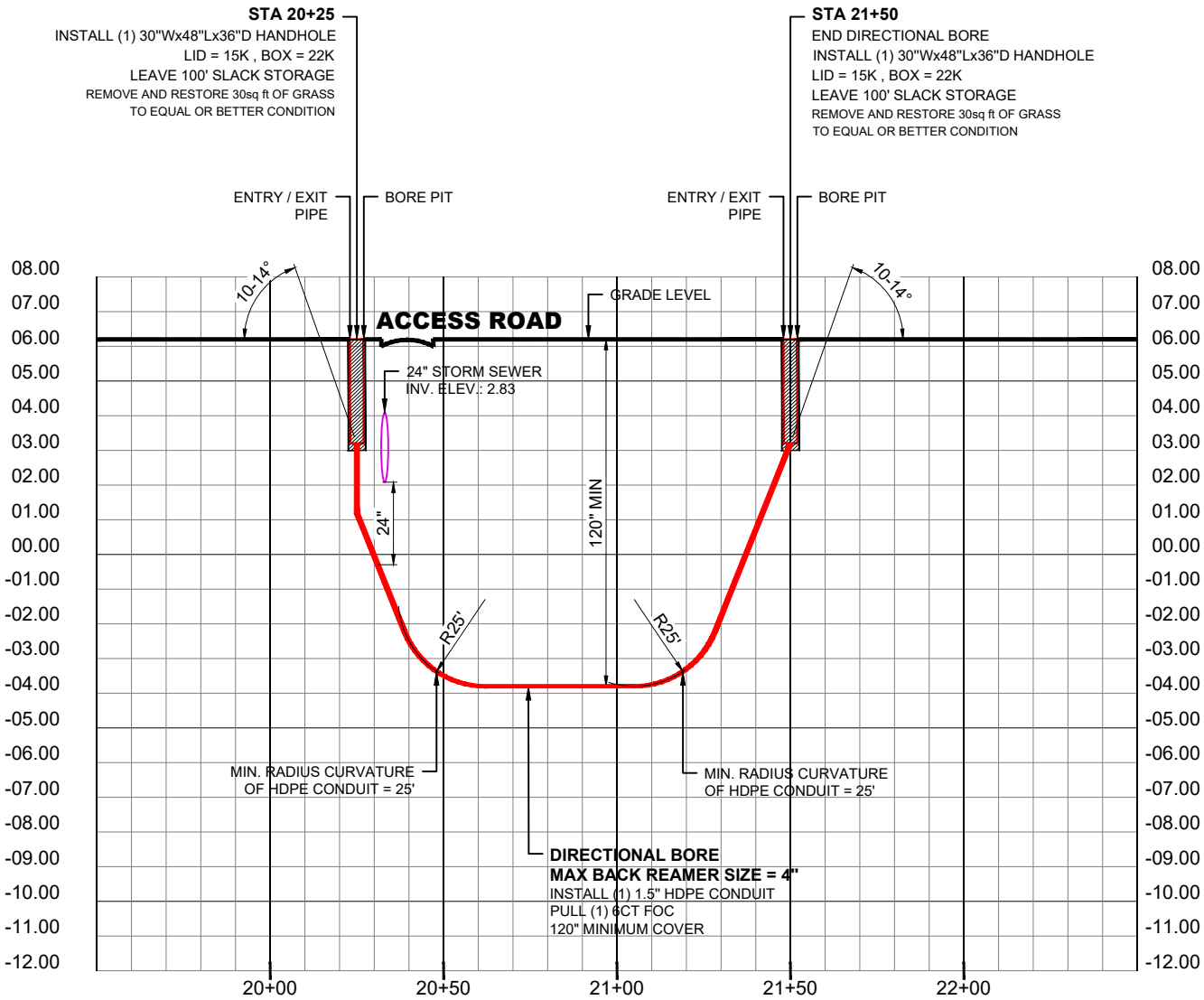
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CROSS SECTION - ACCESS ROAD (LOOKING SOUTH)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'


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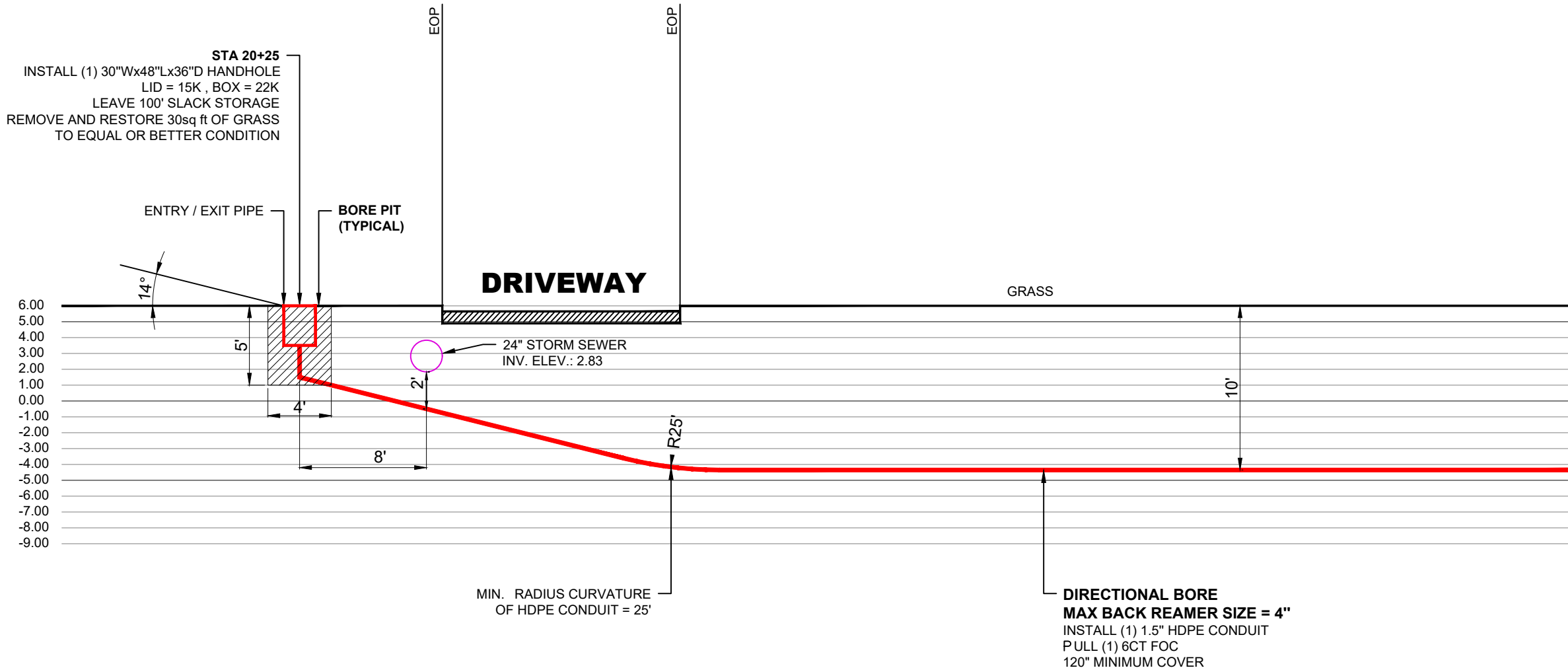
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CONSTRUCTION CONTRACTOR
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Know what's below.
Call before you dig.

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CONFIDENTIAL/PROPRIETARY				SHEET: 07B OF 15




CROSS SECTION - ACCESS ROAD(LOOKING SOUTH)
HORIZONTAL SCALE: 1"=8'
VERTICAL SCALE: 1"=1'

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PHOTOGRAPHS

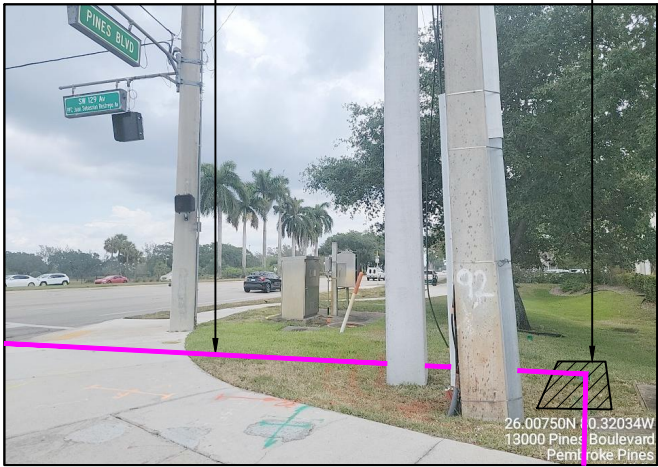
STA 0+00
REMOVE AND RESTORE 30sq ft OF CONCRETE
SIDEWALK TO EQUAL OR BETTER CONDITION
FULL FLAG RESTORATION JOINT TO JOINT
BEGIN DIRECTIONAL BORE (2150')



STA 00+00 BEGIN DIRECTIONAL BORE

1
05

DIRECTIONAL BORE
MAX BACK REAMER SIZE = 4"
INSTALL (1) 1.5" HDPE CONDUIT
PULL (1) 6CT FOC
120" MINIMUM COVER

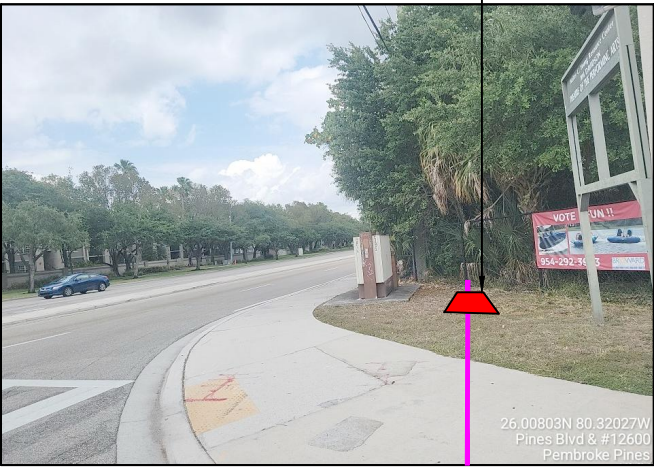


STA 2+20 PROPOSED BORE PIT

2
05

STA 2+20
PROPOSED BORE PIT
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION

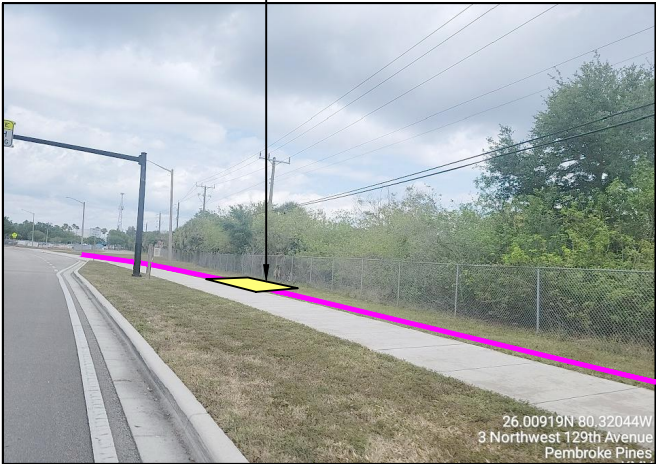
STA 4+65
INSTALL (1) 24"Wx36"Lx30"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 4+65 INSTALL PEMBROKE PINES HANDHOLE

3
05

STA 9+55
PROPOSED BORE PIT
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 9+55 PROPOSED BORE PIT

4
06


STA 13+40
INSTALL (1) 30"Wx48"Lx36"D HANDHOLE
LID = 15K , BOX = 22K
LEAVE 100' SLACK STORAGE
REMOVE AND RESTORE 30sq ft OF GRASS
TO EQUAL OR BETTER CONDITION



STA 13+40 INSTALL PEMBROKE PINES HANDHOLE

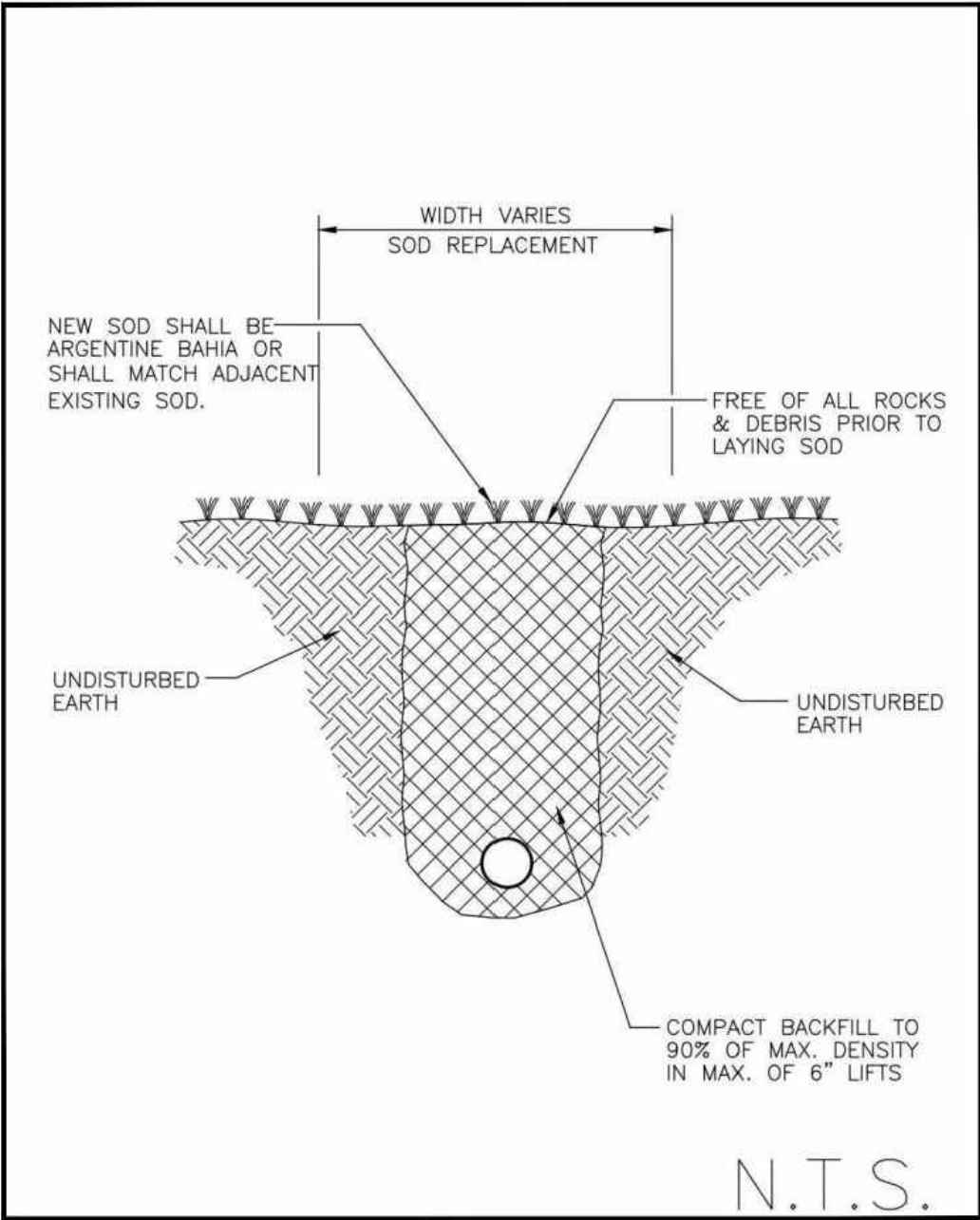
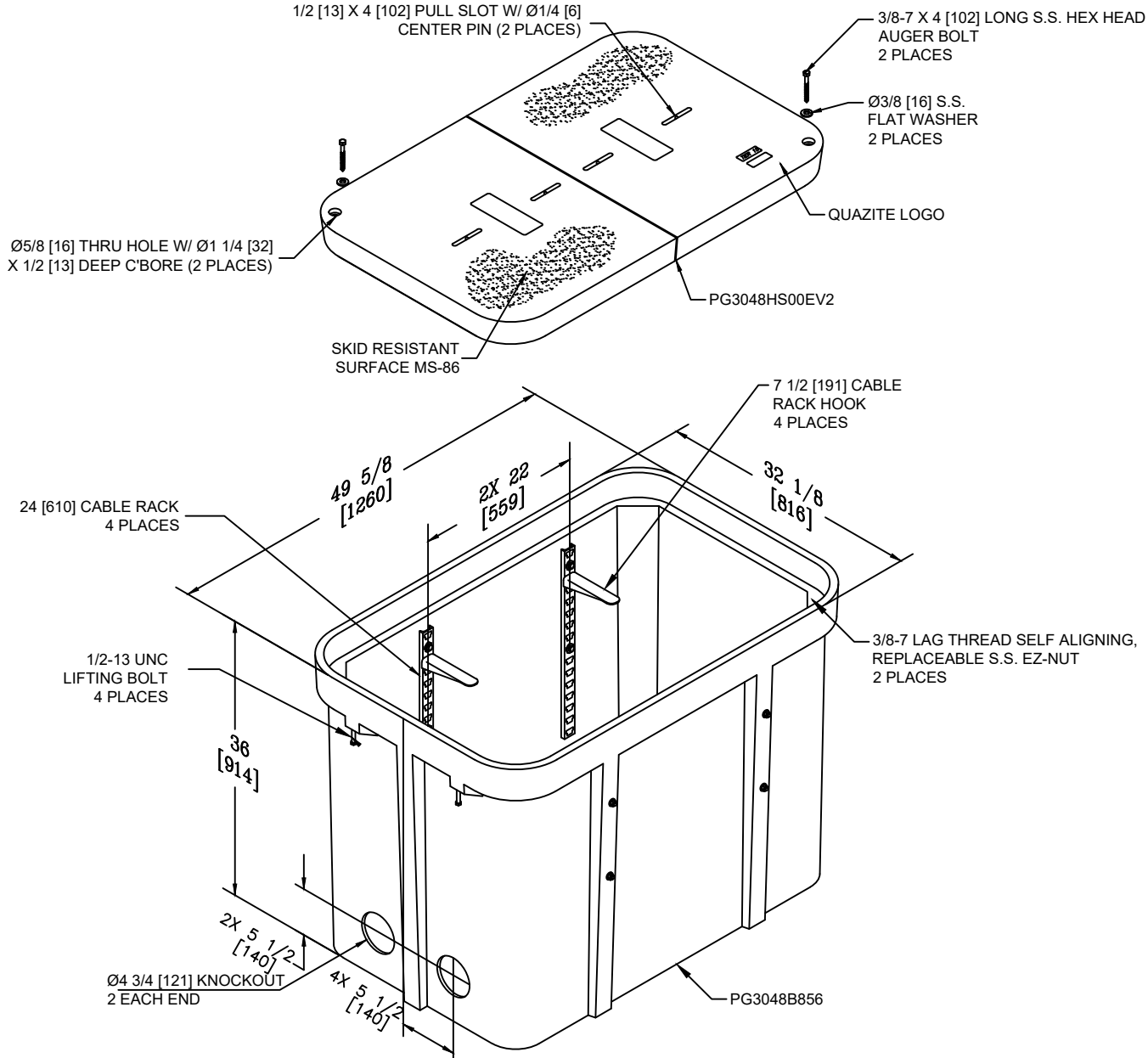
5
06

DIRECTIONAL BORE
MAX BACK REAMER SIZE = 4"
INSTALL (1) 1.5" HDPE CONDUIT
W/FIBER OPTIC CABLE
120" MINIMUM COVER

3				AS-BUILT
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SHEET: 08 OF 15				


TYPICAL

BORE PIT RESTORATION DETAIL



TYPICAL DETAIL - # 2

QUAZITE 30X48X36 ASSEMBLY
W/(4) 24" CABLE RACKS
& (4) 7 1/2" HOOKS
TIER 22 (15K DESIGN LOAD/ 22.5 TEST LOAD)
PG3048Z987EV2

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JR20 DIRECTIONAL DRILL SPECIFICATIONS

JT20 DIRECTIONAL DRILL

OPERATION

U.S.

METRIC

Spindle speed, max	210 rpm
Spindle torque, max	2,200 ft.-lb. 2980 N-m
Carriage thrust travel speed	140 fpm 43 m/min
Carriage thrust pullback travel speed	140 fpm 43 m/min
Thrust force	17,000 lb. 75.6 kN
Pullback force	20,000 lb. 89 kN
Bore diameter	4 in. 102 mm
Ground travel speed	
Forward/reverse	3.2 mph 5.2 km/h

POWER (TIER 4) (HRC)

Engine	Deutz TD2.9L4
Fuel	Diesel
Cooling medium	Liquid
Injection	Direct
Aspiration	Turbocharged
Number of cylinders	4
Displacement	177 in ³ 2.9 L
Bore	3.62 in. 92 mm
Stroke	4.33 in. 110 mm
Manufacturer's gross power rating	74 hp 55 kW
Rated speed	2,600 rpm
Emissions compliance	EPA Tier 4 EU Stage IIIB

POWER (TIER 4) (LRC)

Engine	Deutz TD2.9L4
Fuel	Diesel
Cooling medium	Liquid
Injection	Direct
Aspiration	Turbocharged
Number of cylinders	4
Displacement	177 in ³ 2.9 L
Bore	3.62 in. 92 mm
Stroke	4.33 in. 110 mm
Manufacturer's gross power rating	74 hp 55 kW
Rated speed	2,600 rpm
Emissions compliance	EPA Tier 4 EU Stage IIIB

DIMENSIONS

U.S.

METRIC

Length	207 in. 5.26 m
Width	51.5 in. 1.31 m
Height	90 in. 2.29 m
Weight w/pipe	11,890 lb. 5398 kg
Entry angle	10-14°
Angle of approach	18°
Angle of departure	18°

DRILLING FLUID SYSTEM (ONBOARD)

Pressure, max	1,000 psi 69 bar
Flow, max	35 gpm 132 L/min

FLUID CAPACITIES

Hydraulic reservoir	19 gal. 72 L
Fuel tank	30 gal. 114 L
Engine oil w/filter	8.5 qt. 8 L
Engine cooling system	4.6 gal. 17 L

POWER PIPE® HD

Length of drill pipe, nominal	120 in. 3.05 m
Diameter of drill pipe, tool joint end	2.63 in. 66.8 mm
Diameter of drill pipe	2.66 in. 67.3 mm
Bend radius, min	107 ft. 32 m
Weight of drill pipe, lined	67 lb. 30.4 kg

POWER PIPE FORGED HD

Length	120 in. 3.05 m
Diameter of drill pipe, tool joint end	2.5 in. 63.5 mm
Diameter of drill pipe	2.10 in. 53.3 mm
Bend radius, min	109 ft. 33.2 m

POWER PIPE FORGED HDX

Length	120 in. 3.05 m
Diameter of tool joint	2.63 in. 66.8 mm
Diameter of drill pipe	2.38 in. 60.5 mm
Bend radius, min	123 ft. 37.5 m

BATTERY

SAE reserve capacity rating	195 min
SAE cold crank rating (30°F (-18°C))	950 amps

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.



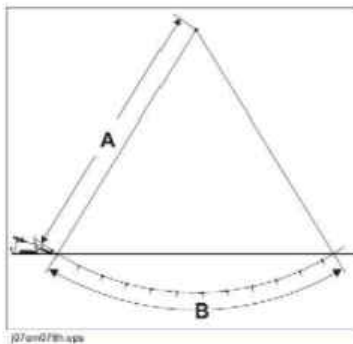
JT20 Operator's Manual
Plan Bore Path

Prepare - 69

Bend Radius

JT20 Power Pipe® HD drill pipes have a tested minimum bend radius of 107' (32.6 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 107' (32.6 m)
- requires approximately 168' (51.2 m) of drill pipe (B).



JT20 Ditch Witch® Forged HD drill pipes have a tested minimum bend radius of 109' (33.2 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 109' (33.2 m)
- requires approximately 171' (52.1 m) of drill pipe (B).

JT20 Forged drill pipes have a tested minimum bend radius of 108' (32.9 m). This means that a 90-degree bend in the bore path:

- has a radius (A) of 108' (32.9 m)
- requires approximately 170' (51.8 m) of drill pipe (B).

NOTICE: Bending drill pipe more sharply than recommended will damage the pipe and cause failure over time.

- If bend radius is reduced, drill pipe life is reduced.
- If bend radius is increased, drill pipe life is increased.

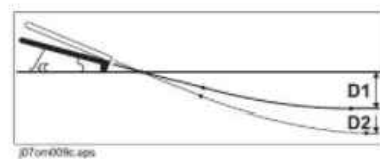
IMPORTANT: Use the charts on the next page to keep bends within safe limits.

JT20 Operator's Manual
Plan Bore Path

Prepare - 73

Minimum Depth

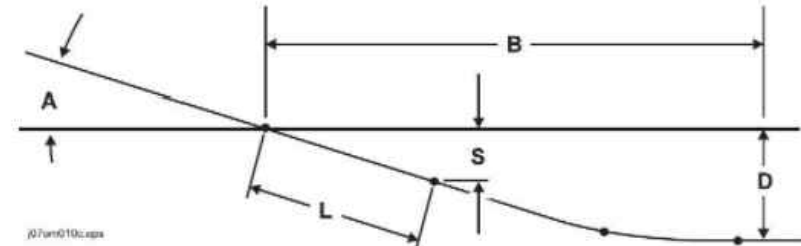
Because you must bend pipe gradually, entry pitch and bend limits determine how deep the pipe will be when it becomes horizontal. This is called the **minimum depth**.



- To reduce minimum depth (D1), reduce entry pitch. This also decreases setback.
- To increase minimum depth (D2), increase entry pitch. This also increases setback.

Bore Path Calculator

Entry pitch, setback, and minimum depth work together with bend limits to determine the bore path. To find the setback (B) and entry pitch (A) that will take you to the desired minimum depth (D), use the chart below.



IMPORTANT: Numbers in table based on **drill pipe minimum bend radius**, beacon housing, EZ-Connect, connector, transition sub, and 1/3 of first drill pipe (L, totaling 8' 8" [2.6 m]) in the ground before steering.

Power Pipe® HD

Minimum depth (D)	Entry pitch (A)	Setback (B)	Depth to begin steering (S)
3 ft 3 in (1 m)	-18%	27 ft 6 in (8.4 m)	1 ft 7 in (0.48 m)
3 ft 10 in (1.2 m)	-20%	29 ft 6 in (9 m)	1 ft 9 in (0.53 m)
4 ft 5 in (1.3 m)	-22%	31 ft 6 in (9.6 m)	1 ft 11 in (0.58 m)
5 ft 0 in (1.5 m)	-24%	33 ft 5 in (10.2 m)	2 ft 1 in (0.64 m)
5 ft 8 in (1.7 m)	-26%	35 ft 4 in (10.8 m)	2 ft 3 in (0.69 m)

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SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/Oversize Vehicles Lane Widths High-Visibility Safety Apparel Speed Reduction Signing
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
7	Manholes/Crosswalks/Joints Truck Mounted Attenuators Signals Channelizing Devices Channelizing Devices Consistency Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance Temporary Asphalt Separator
10	Channelizing Devices Notes Temporary Barrier Notes
11	Pavement Markings

GENERAL NOTES:

1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1 CHANNELIZING DEVICE SPACING				
Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100


TABLE 2 TAPER LENGTH "L"	
Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$
Where: W = width of offset in feet S = speed in mph	

TABLE 3 WORK ZONE SIGN SPACING "X"	
Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500
* For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.	

TABLE 4 BUFFER LENGTH "B"	
Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.	

10/27/2022 7:35:59 AM

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
COMMENT				

PEMBROKE PINES

CHECKED BY: GIULIANO LEON

ENGINEERING FIRM: KMV FIBERTELECOM INC

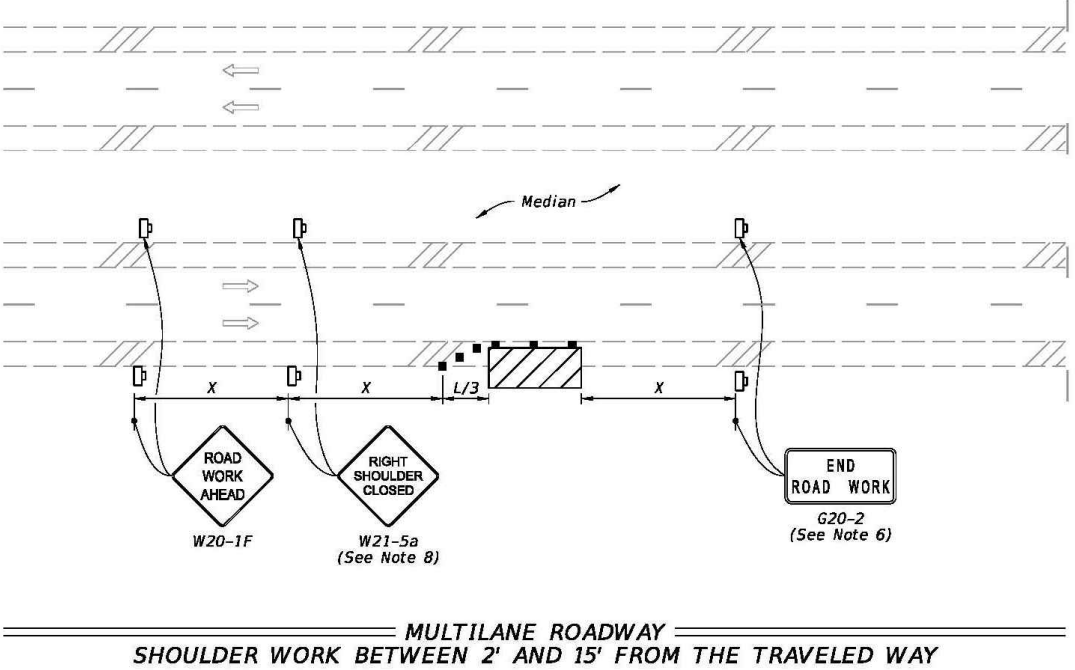
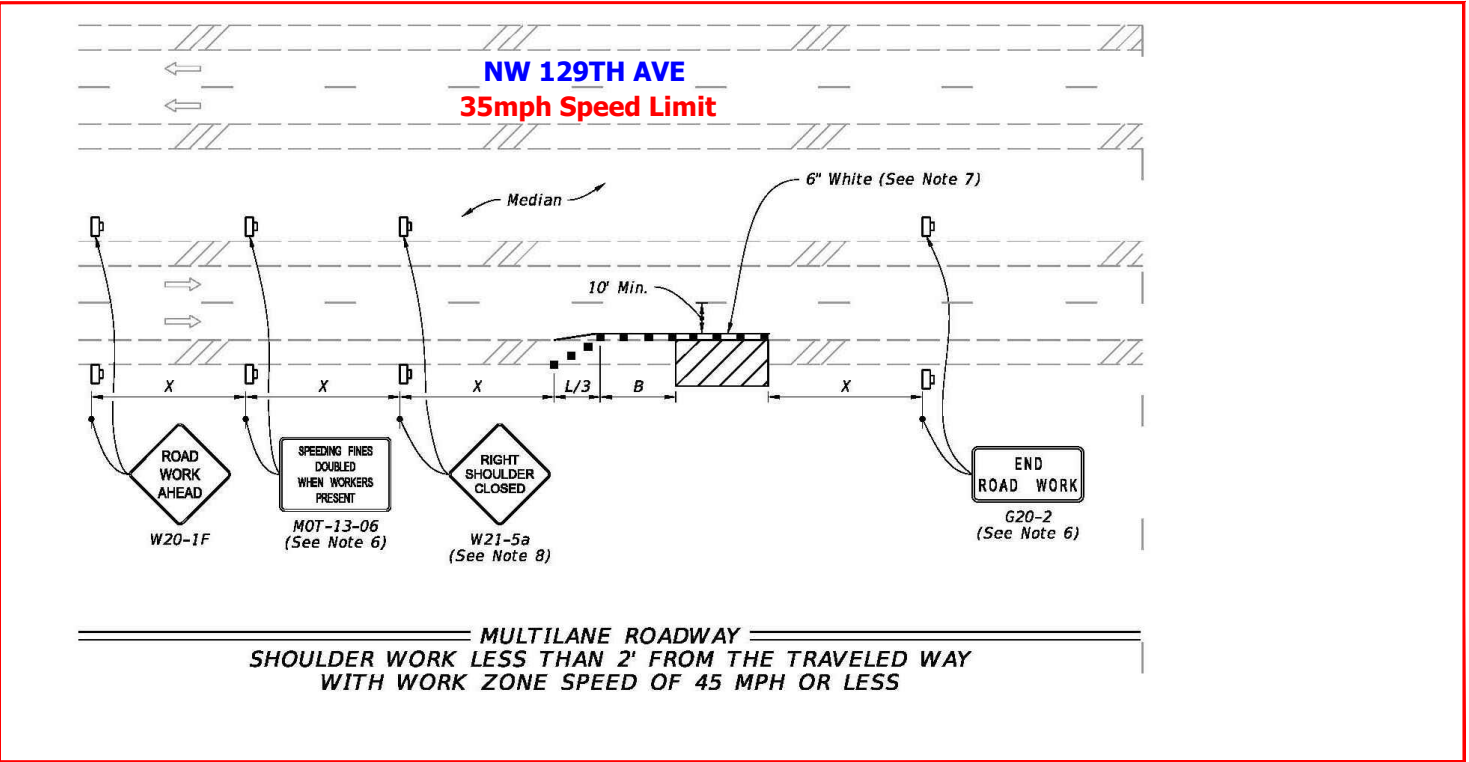
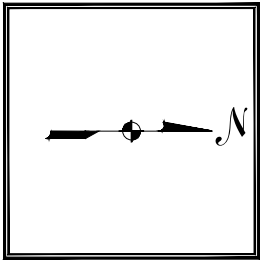
PROJECT NUMBER: KMV-PP-24-002

LOCATION: 901 NW 129TH AVE
PEMBROKE PINES, FL 33028

DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG
MIDDLE SCHOOL 4-2-24.dwg

CONFIDENTIAL/PROPRIETARY

SHEET: 11 OF 15

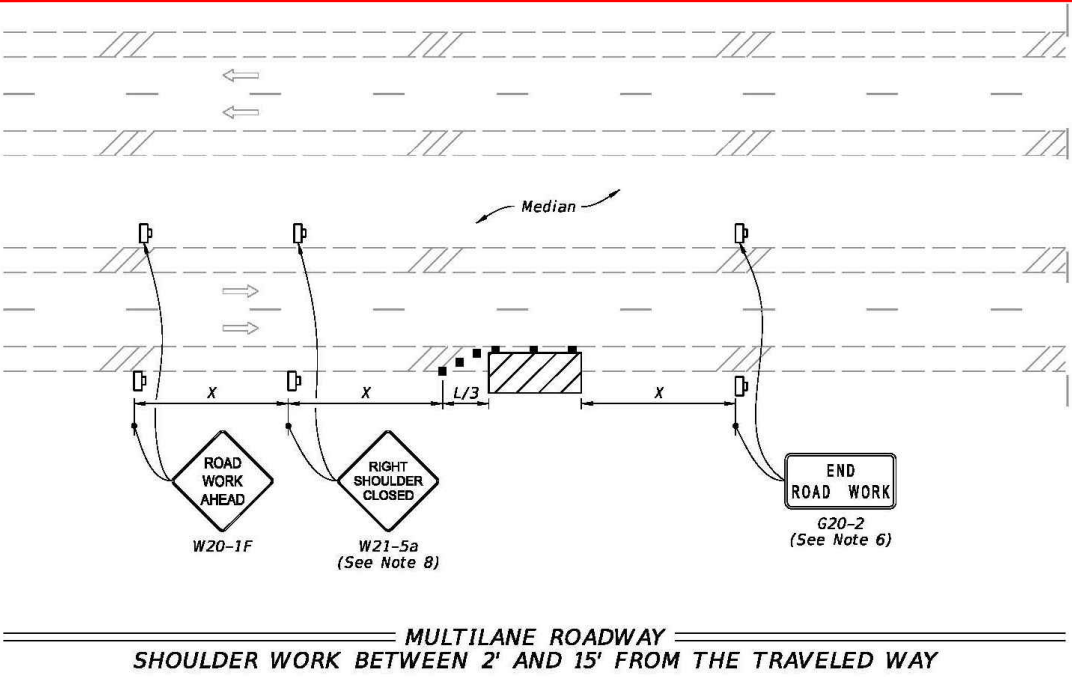
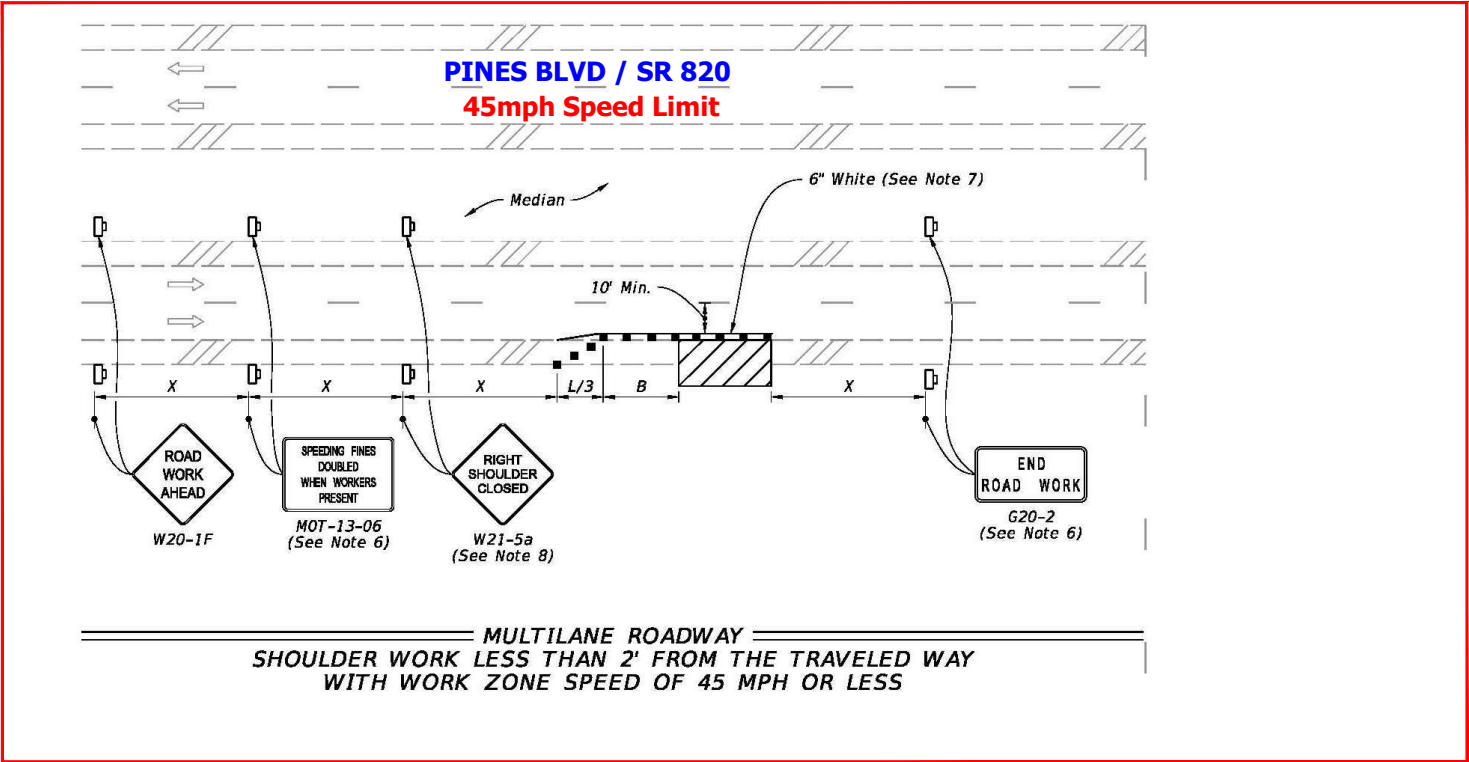
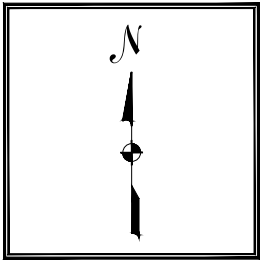


DO NOT APPLY

SYMBOLS:
Work Area
Channelizing Device (See Index 102-600)
Work Zone Sign
Lane Identification and Direction of Traffic

LAST REVISION 11/01/20	DESCRIPTION: PROPOSAL UNDERGROUND CONDUITS IN R/W NW 129TH AVE	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
------------------------------	------------------------------------------------------------------------------	--------------------------------------	-------------------------------------------------	------------------	-----------------

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 12 OF 15				



DO NOT APPLY

- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic

2/27/2023 10:53:38 AM

LAST REVISION 11/01/20	DESCRIPTION: PROPOSAL UNDERGROUND CONDUITS IN R/W PINES BLVD / SR 820	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
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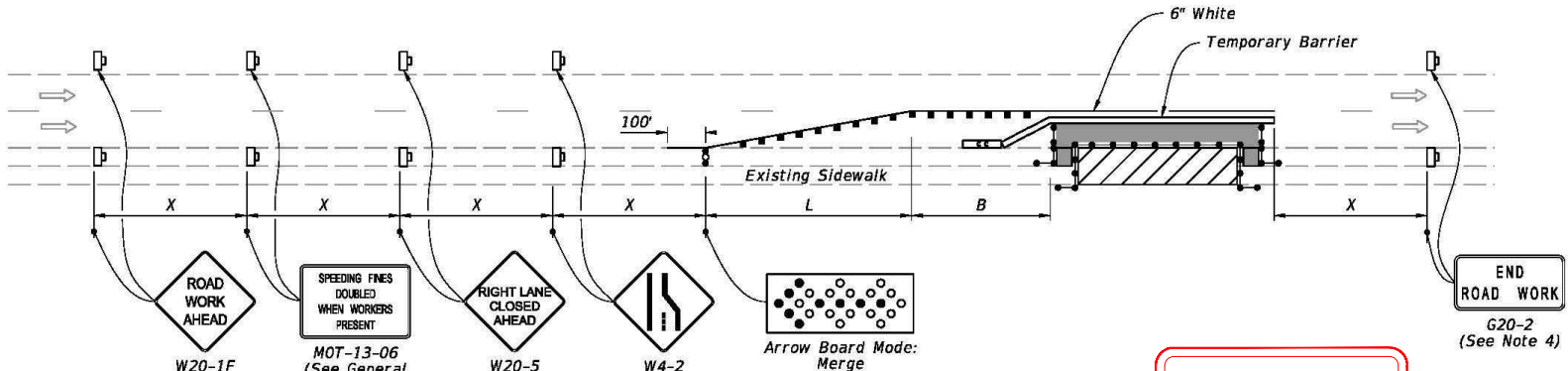
3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 13 OF 15				

NOTES:

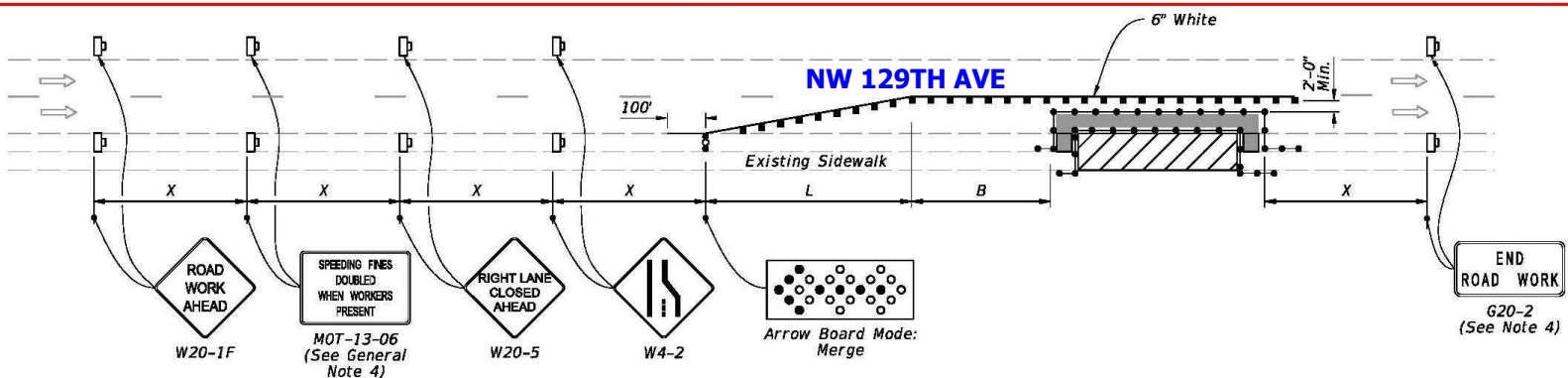
1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

SYMBOLS:

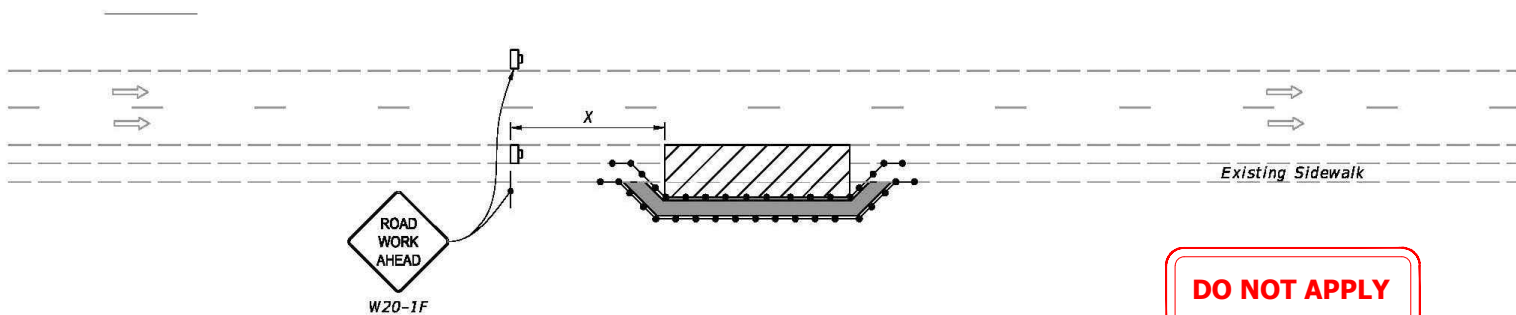
- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



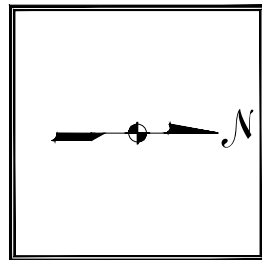
PEDESTRIAN DIVERSION - OPTION 1
(Temporary Barrier Shown, Low Profile Barrier Similar)



PEDESTRIAN DIVERSION - OPTION 2
(Work Zone Speed 35 mph or Less)



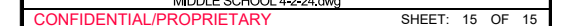
PEDESTRIAN SPECIAL DETOUR



2/21/2023 10:19:10 AM

LAST REVISION	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
11/01/21	PROPOSAL UNDERGROUND CONDUITS IN R/W NW 129TH AVE		102-660	2 of 2

3				AS-BUILT
2				REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE				
PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG				
MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 14 OF 15				



PROJECT: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24
ADDRESS: 901 NW 129TH AVE, PEMBROKE PINES, FL 33028 - **FDOT PERMIT**



CONTACTS

PEMBROKE PINES
JOHN L.ENGLAND
DESIGN ENGINEER
PHONE: (954) 518-8905
JENGLAND@PPINES.COM

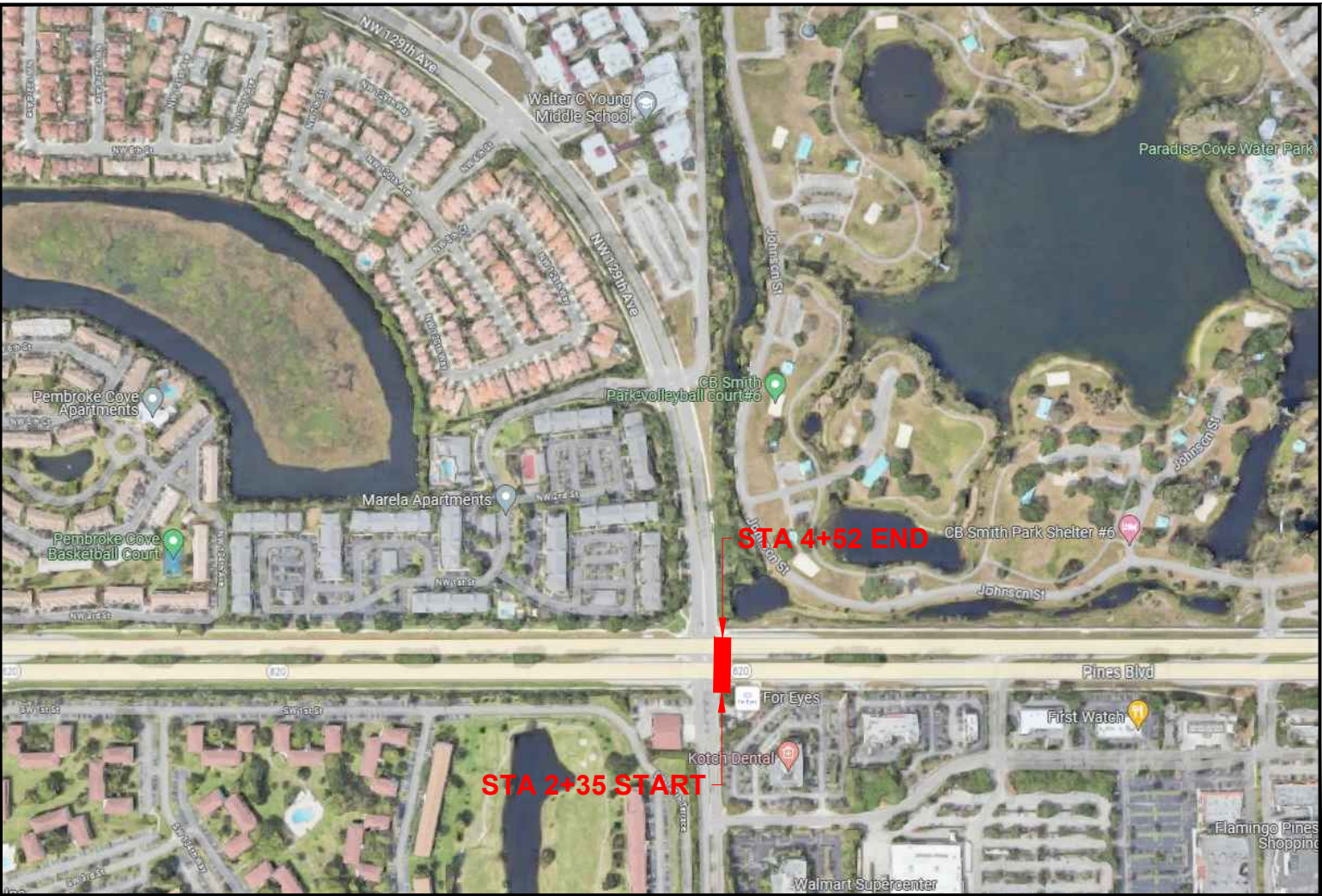
KMV FIBERTELECOM INC
SANDRA KARINA VARGAS
10604 NW 48TH ST
CORAL SPRINGS FL 33076
PHONE: 954-937-5239
KARINAV@KMVFIBERTELECOM.COM



SITE INDEX

- 01 OF 06 - COVER SHEET/SITE LOCATION
- 02 OF 06 - OVERALL MAP
- 03 OF 06 TO 04 OF 06 - CONSTRUCTION NOTES
- 05 OF 06 TO 05A OF 06 - PLAN VIEWS & PROFILES
- 06 OF 06 - PHOTOGRAPHS

LINETYPES	
	UG FIBER - EXISTING
	UG FIBER - PROPOSED
	AERIAL FIBER - EXISTING
	AERIAL FIBER - PROPOSED
	STRAND - EXISTING
	STRAND - PROPOSED
	CONDUIT - EXISTING
	CONDUIT - PROPOSED
	INNERDUCT - EXISTING
	INNERDUCT - PROPOSED
	ASBUILT CONDUIT
	GAS
	TRAFFIC
	WATER
	TELEPHONE
	ELECTRIC
	STREET LIGHT
	FOC
	FORCE MAIN
	SANITARY SEWER (SEW)
	STORM DRAIN
	RECLAIMED WATER
	FENCE
	CABLE TV
	STEAM
	OIL
	UNKNOWN UTILITY
	RIGHT OF WAY
	EDGE OF PAVEMENT
	EASEMENT



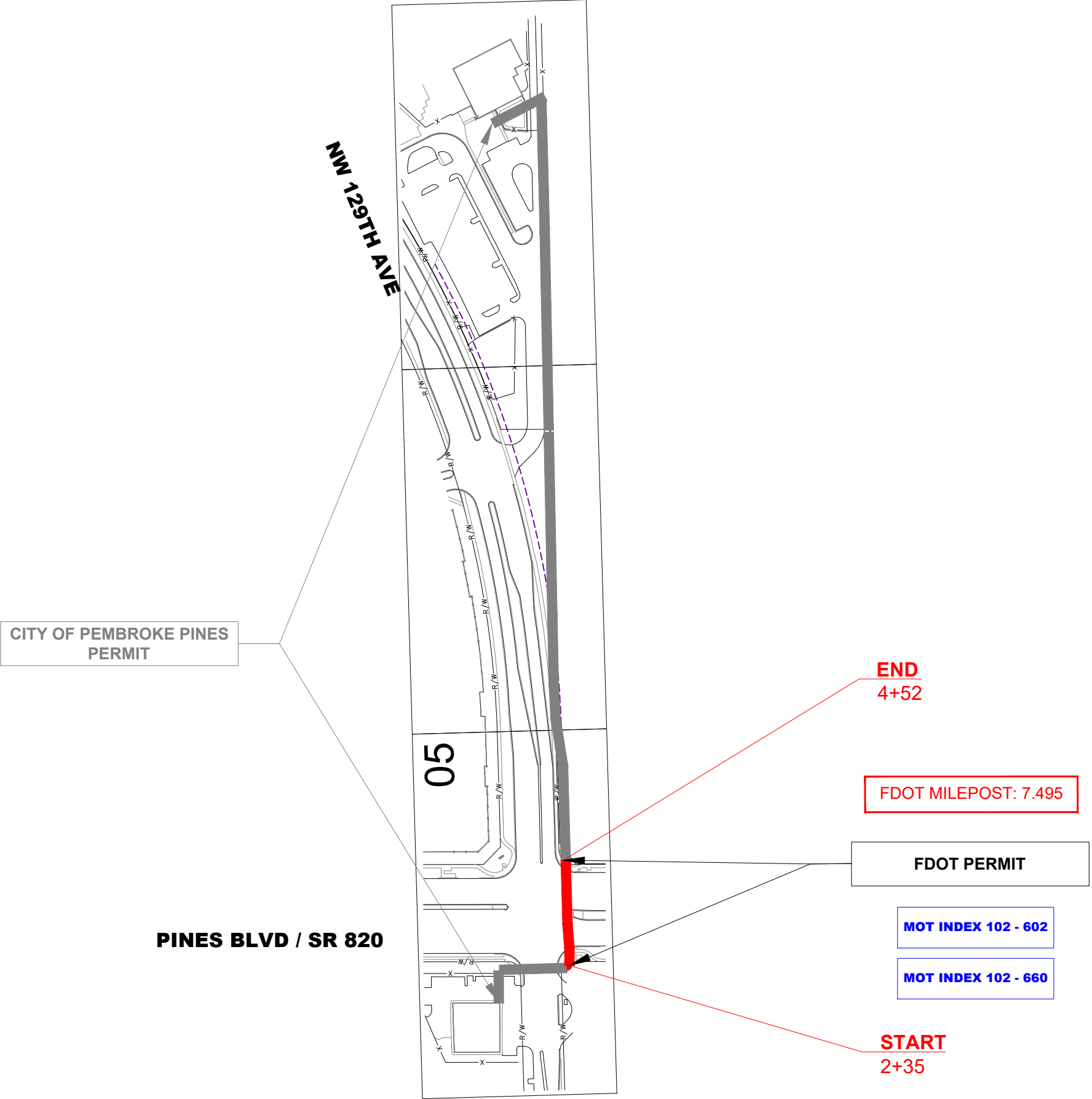
SITE LOCATION
SCALE: NTS




SPACE RESERVED FOR PROFESSIONAL SEALS	
SUMMARY DATA	
JOB DESCRIPTION	FTG
DIRECTIONAL BORE	217'

PERMITTING	DATE SUBMITTED	TWP : 51S	RNG : 40E	SEC : 14
JURISDICTION: * FDOT	05/28/24	PLAT BOOK : -	PAGE : -	

CHECKED BY: GIULIANO LEON	ENGINEERING FIRM: KMV FIBERTELECOM INC
PROJECT NUMBER: KMV-PP-24-002	LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg	CONFIDENTIAL/PROPRIETARY
SHEET: 01 OF 06	



SCALE: NTS

3				AS-BUILT
2	071524	KMV	RC	REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
 PEMBROKE PINES				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
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CONFIDENTIAL/PROPRIETARY				
SHEET: 02 OF 06				

CONSTRUCTION NOTES


TYPICAL UNDERGROUND CONSTRUCTION:

- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
- CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DISTANCES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION AND CONDITION OF EXISTING CONDUIT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- MAINTAIN MINIMUM 24" VERTICAL AND HORIZONTAL SEPARATION BETWEEN PROPOSED BY PEMBROKE PINES DUCTS & EXISTING UTILITIES.
- MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.
- ANY CHANGES ON PROPOSED RUNNING LINE HAVE TO GET APPROVAL FROM PEMBROKE PINES CONSTRUCTION MANAGER.

FOR CONSTRUCTION:


- EXTREME CAUTION TO BE TAKEN TO CONTAIN SLURRY AROUND WORK AREAS NEAR WETLANDS TO AVOID ANY WATER QUALITY ISSUES!
- LOCATIONS, ELEVATIONS LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER SITE FEATURES SHOWN ON THE DRAWINGS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. PLEASE CONTACT SUNSHINE STATE ONE-CALL AT 1-800-432-4770
- **CAUTION:** EXISTING UNDERGROUND UTILITIES IN AREA. NO ELEVATION RECORDS FOR EXISTING UTILITIES AVAILABLE. CONTRACTOR SHOULD CONTACT SUNSHINE 811, LOCATE ALL UTILITIES AND VERIFY ALL DEPTHS PRIOR TO CONSTRUCTION

DESIGN TICKET
#121405467

3				AS-BUILT
2	071524	KMV	RC	REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN DRAFTING	COMMENT
<div> PEMBROKE PINES</div>				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY			SHEET: 03 OF 06	

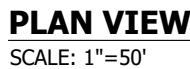
CONSTRUCTION NOTES - FDOT

- EXISTING F.D.O.T. DRAINAGE SYSTEM SHALL BE PROTECTED AT ALL TIMES BY THE PERMITTEE. ANY DAMAGE TO THE F.D.O.T. DRAINAGE SYSTEM (STRUCTURES OR PIPES) SHALL BE REPAIRED/REPLACED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.
- EXISTING GAS MAIN SHALL BE PROTECTED AT ALL TIMES DURING EXCAVATION, DRILLING AND CONDUIT INSTALLATION ACTIVITIES. UTILITY GAS COMPANY SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING AND GIVE WRITTEN CLEARANCE PRIOR TO COMMENCEMENT OF ANY PERMIT OPERATIONS.
- ANY DAMAGE TO CONCRETE SIDEWALK, CURB AND GUTTER, PEDESTRIAN CURB RAMPS, AND TRAFFIC SEPARATORS SHOULD BE RESTORED PER FDOT STANDARDS PLANS INDEX NO. 522-001, 520-001, 522-002, AND 520-020, ADA STANDARDS, AND FDOT STANDARD SPECIFICATION 522. DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. IMPACTED PEDESTRIAN RAMPS SHALL BE REPLACED COMPLETELY; HANDHOLES MUST NOT BE LOCATED WITHIN PEDESTRIAN RAMPS. MAKE SURE TO FURNISH APPROPRIATE EXPANSION JOINTS PER FDOT STANDARDS PLANS INDEX 350-001. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527.
- HANDHOLES AND PULL BOXES SHALL NOT BE INSTALLED WITHIN THE FOOTPRINT OF EXISTING PEDESTRIAN ADA CURB RAMP NEITHER DRIVEWAY ENTRY AREA. REFER TO PPM, VOL. 2, CH. 8, SECTION 8.3.2 REGARDING NONSLIP TOP SURFACE IF THE HAND HOLE IS PROPOSED WITHIN PEDESTRIAN CURB RAMP. DO NOT INSTALL NEW HH AT LEAST 10' FROM ADA CURB RAMPS, FIRE HYDRANTS, BUS BOOTH-BENCHES
- WHERE PEDESTRIAN FACILITIES ARE DETOURED, BLOCKED, OR CLOSED DURING THE WORK, PLEASE ENSURE TO PROVIDE SAFE ALTERNATE ACCESSIBLE ROUTES THROUGH OR AROUND THE WORK ZONE THAT MEETS THE REQUIREMENTS OF THE ADA STANDARDS AND FDOT STANDARD PLAN INDEX 102-660.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-2024 STANDARD INDEX No 570-001.
- PROVIDE PROTECTION TO THE EXISTING TREES AND AVOID ANY IMPACT TO THE ROOTS. WHEN CONSTRUCTION AFFECTS TREE ROOTS OR CANOPY, PROVIDE TRIMMING PER FDOT STANDARD PLANS INDEX 110-100.
- PROVIDE APPROPRIATE EROSION CONTROL DEVICES DURING CONSTRUCTION.
- LANDSCAPING, TREES, SOD SHALL BE REPLACED AT THE COST OF THE PERMITTEE
- THE CONTRACTOR SHALL COORDINATE WITH BROWARD COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW), TRAFFIC SIGNALS & SIGNS DIVISION AT LEAST 5 WORKING DAYS PRIOR TO ANY WORK DONE AT SIGNALIZED INTERSECTIONS , WHICH EITHER CLOSE ANY LANES, NEED CHANGES IN THE SIGNAL OPERATION OF TIMING, DAMAGE OR HINDER ANY SIGNAL SENSOR, OR DAMAGE ANY CABLE OR SIGNAL EQUIPMENT.
- PERMITTEE IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES PRIOR TO DIRECTIONAL DRILLING/TRENCH WORK AND ASSUMES ALL RESPONSIBILITY FOR ANY DAMAGE DONE TO UNDERGROUND FACILITIES AND ABOVE GROUND FACILITIES. DIRECTIONAL BORING SHALL BE CONDUCTED ACCORDING TO LATEST SECTION 555 OF FDOT'S STANDARD SPECIFICATIONS AND 3.16.9.1 OF THE 2017 U.A.M. OPEN TRENCH SHALL BE CARRIED OUT PER 3.16.4. OF 2017 U.A.M
- CONDUIT INSTALLATION SHALL ADHERE TO THE LATEST FDOT STANDARD PLANS INDEX NO. 630-001
- ACCORDING TO SECTION 3.10 OF 2017 U.A.M, WHEN UNDERGROUND AND AERIAL UTILITIES OCCUPY THE SAME ROADSIDE, UNDERGROUND UTILITIES SHALL NOT BE PLACED WITHIN THREE (3) FEET OF THE R/W LINE.
- DAMAGED SIDEWALK, CURB AND GUTTER, AND TRAFFIC SEPARATORS SHALL BE RESTORED WITH FULL FLAGS/JOINT TO JOINT AT THE PERMITTEES EXPENSE; PATCHING IS NOT PERMITTED. RESTORATION SHALL MATCH EXISTING CONCRETE PATTERN, PAVERS, AND COLOR. IMPACTED PEDESTRIAN RAMPS AND DRIVEWAYS SHALL BE REPLACED COMPLETELY. INCLUDE 1 FOOT OF LEVEL EMBANKMENT FOR EROSION AND ENSURE TO NOT CREATE ANY DROP OFF HAZARDS AS SHOWN ON FDM FIGURE 222.4.1. IMPACTED DETECTABLE WARNING SURFACES NEED TO BE RESTORED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 522-002 AND SPECIFICATION 527
- PROPOSED HANDHOLES MUST ADHERE TO LATEST FDOT STANDARD PLANS INDEX NO. 635-001". ENSURE ALL HANDHOLE LIDS ON SIDEWALK ARE FLUSH AND ADA COMPLIANT. MAINTAIN THE TEMPORARY PATCHES AROUND THE HANDHOLE BOX EDGES AND/OR ANYWHERE ELSE WHERE SIDEWALK HAS BEEN IMPACTED/DAMAGED BY THE DB WORK OR UTILITY INSTALLATION, SO IT PROVIDES A SMOOTH -ALL WEATHER SURFACES ALWAYS. ONCE THE HANDHOLE IS INSTALLED THE LID MUST BE KEPT IN PLACE, BOLTED, AND SECURED.
- TEMPORARY BARRIERS FOR PEDESTRIAN DETOURS MUST COMPLY WITH THE LATEST FDOT STANDARD PLANS INDEX NO. 102-100.
- RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT 2023-24 DESIGN STANDARDS INDEX 570-010.
- PERMITTEE MUST TAKE PICTURES OF THE EXISTING STREET LIGHTNING SYSTEM WORKING-DURING NIGHT-TIME-WITHIN THE LIMITS OF THIS PROPOSED JOB PRIOR TO BEGIN SAID WORK. TO AVOID FUTURE DISPUTE ABOUT UNFORESEEN DAMAGES TO THE LIGHTNING SYSTEM.
- CONTAMINATED SITES LOCATED WITHIN A 500-FOOT RADIUS OF THE PROJECT AREA THAT COULD IMPACT THE FDOT ROW HAVE BEEN IDENTIFIED. THE PERMITTEE SHALL ASSURE THAT ANY ACTIONS CARRIED OUT ARE IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATORY REQUIREMENTS.
- ANY ABOVEGROUND FEATURES THAT MAY BE IMPACTED BY PROPOSED WORK MUST BE IDENTIFIED TO BE ADJUSTED/RELOCATED/REPLACED. IF SIGNS ADD ARE DAMAGED, THESE MUST BE REPLACED ACCORDING THE LATEST FDOT STANDARD PLANS INDEX NO. 700-101. ENSURE LATERAL OFFSET AND CLEAR ZONE STANDARDS ARE BEING ADHERED TO.

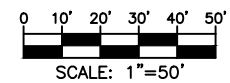
3				AS-BUILT
2	071524	KMV	RC	REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
<div> PEMBROKE PINES</div>				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY			SHEET: 04 OF 06	


FDOT CONSTRUCTIONS NOTES

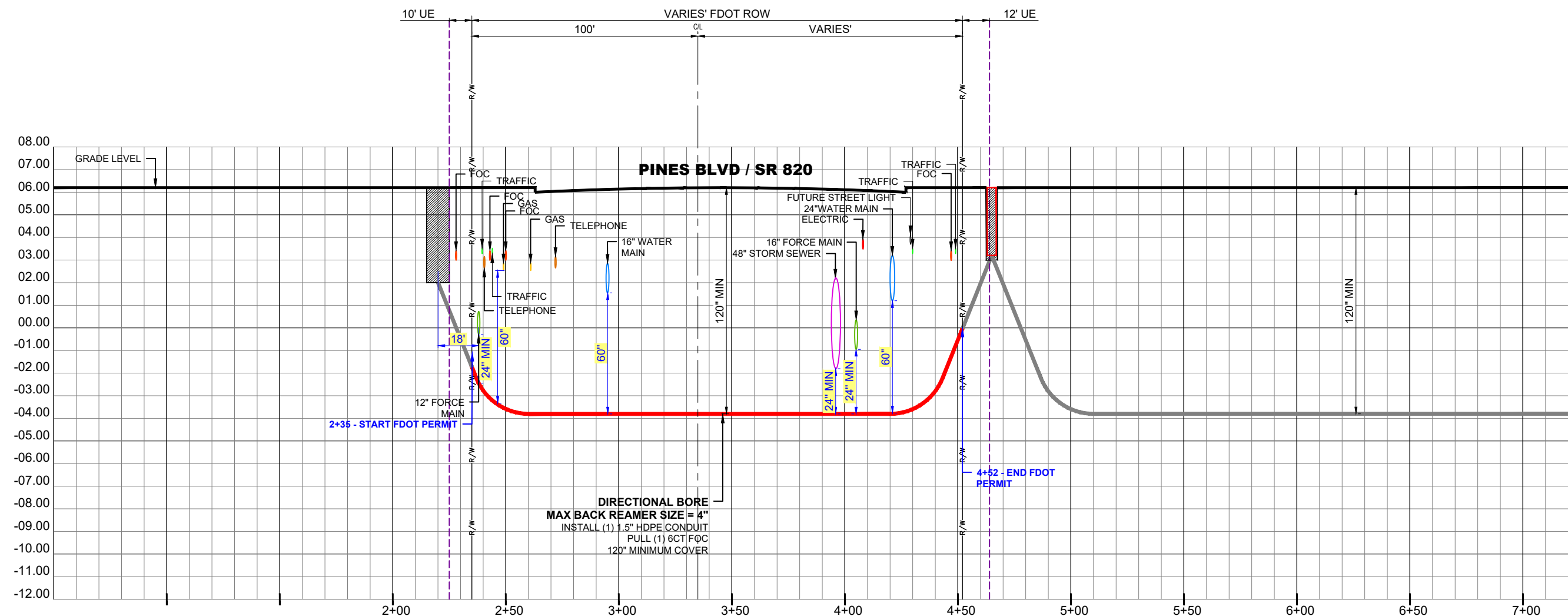
- * NO DEWATERING WILL BE PERFORMED OUT IN THIS PROJECT.
- * CONTRACTOR MUST HAVE CURRENT LOCATES DUE TO OTHER UTILITIES IN THIS AREA.
- * PLEASE BE AWARE THAT IF ANY TREE IMPACTS (REMOVALS, RELOCATIONS, TRIMMING, ROOT PRUNING) DO BECOME PROPOSED, COORDINATION WITH FDOT PRIOR TO WORK WILL BE REQUIRED.
- * ENSURE APPROPRIATE EROSION CONTROL DEVICES ARE IN PLACE BEFORE ANY CONSTRUCTION BEGINS AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION.
- * ANY DAMAGE PRODUCED BY THIS PROPOSED WORK SHALL BE RESTORED BY THE PERMITTEE AT NO COST TO THE DEPARTMENT.
- * THE CONTRACTOR AND CONSTRUCTION MANAGER OF CROWN CASTLE MUST ENSURE THAT ALL PRODUCTS COMPLY WITH THE LATEST FDOT APPROVED PRODUCTS LIST (APL).



FDOT MILEPOST: 7.495



3			AS-BUILT
2	071524	KMV	RC
1	052824	KMV	AA
			ORIGINAL
NO.	DATE	ENG DESIGN	DRAFTING
COMMENT			
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CONFIDENTIAL/PROPRIETARY SHEET: 05 OF 06			



PROFILE - NW 129TH AVE (LOOKING WEST)

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

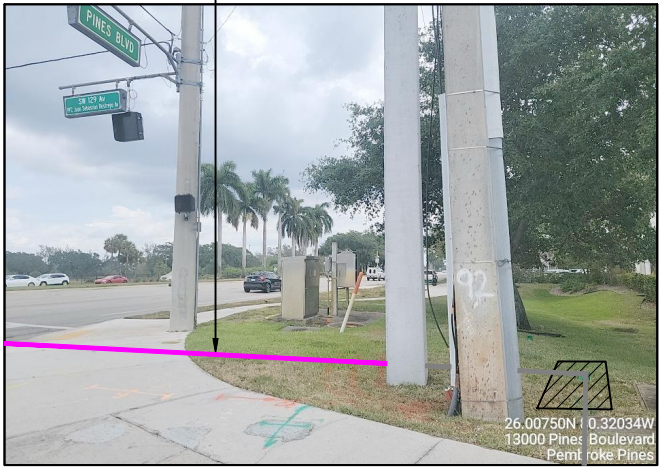
**RECORD ON UTILITY PLANS
CONSTRUCTION CONTRACTOR
SHALL CALL LOCATES AND SOFT DIG TO DETERMINE
UTILITY ELEVATION BEFORE CONSTRUCTION.**



3				AS-BUILT
2	071524	KMV	RC	REVISION # 1
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CONFIDENTIAL/PROPRIETARY				
SHEET: 05A OF 06				

PHOTOGRAPHS

DIRECTIONAL BORE
MAX BACK REAMER SIZE = 4"
INSTALL (1) 1.5" HDPE CONDUIT
PULL (1) 6CT FOC
120" MINIMUM COVER



STA 2+35 DIRECTIONAL BORE



ON PINES BLVD / SR 820
STA 2+35
LOOKING NORTH
(SEE PAGE 05 OF 06)


DIRECTIONAL BORE
MAX BACK REAMER SIZE = 4"
INSTALL (1) 1.5" HDPE CONDUIT
PULL (1) 6CT FOC
120" MINIMUM COVER



STA 4+52 DIRECTIONAL BORE



ON PINES BLVD / SR 820
STA 4+52
LOOKING NORTH
(SEE PAGE 05 OF 06)

3				AS-BUILT
2	071524	KMV	RC	REVISION # 1
1	052824	KMV	AA	ORIGINAL
NO.	DATE	ENG	DESIGN	DRAFTING
				COMMENT
				
CHECKED BY: GIULIANO LEON				
ENGINEERING FIRM: KMV FIBERTELECOM INC				
PROJECT NUMBER: KMV-PP-24-002				
LOCATION: 901 NW 129TH AVE PEMBROKE PINES, FL 33028				
DRAWING NAME: KMV-PP-24-002 - FIRE STATION 89 TO WALTER YOUNG MIDDLE SCHOOL 4-2-24.dwg				
CONFIDENTIAL/PROPRIETARY				
SHEET: 06 OF 06				