

# INVITATION TO BID



## CITY OF CALLAWAY PAVING IMPROVEMENTS BID NO: PW2022-12

**ADVERTISED:** The Panama City News Herald, Friday, June 10, 2022

**PREBID MEETING:** N/A


**BID DEADLINE:** 2:00 p.m. Monday, July 11, 2022

**BIDS/PROPOSALS ARE TO BE SUBMITTED TO:**

CITY OF CALLAWAY  
ATTN: JANICE L. PETERS, CITY CLERK  
6601 EAST HWY. 22  
CALLAWAY, FL 32404

**BID OPENING:** 2:15 p.m. Monday, July 11, 2022  
Callaway Arts & Conference Center, 500 Callaway Park Way

**ATTACHMENTS:** Special Instructions and Conditions  
General Instructions and Conditions  
Minimum Technical Specifications  
Sample Agreement  
Bid Forms (**To be submitted with bid.**):  
Bid/Certification Form  
Conflict of Interest Form  
Drug Free Workplace Certification  
Public Entity Crimes Statement  
Proprietary/Confidential Information Form  
Conflict-of-Interest Form  
Anti-Collusion Statement

  
\_\_\_\_\_  
Janice L. Peters, MMC, City Clerk

## INSTRUCTIONS TO BIDDERS/PROPOSERS

Qualified firms are invited to submit a Bid/Proposal to the **CITY OF CALLAWAY PAVING IMPROVEMENTS, BID NO: PW2022-12**, by replying to the enclosed specification. In order for the Bid/Proposal to be considered, complete all items in this specification.

All Bids/Proposals must include one **(1) unbound original** and **three (3) copies** and be addressed to:

CITY OF CALLAWAY  
ATTN: CITY CLERK  
6601 EAST HWY. 22  
CALLAWAY, FL 32404

Proposals **must be received** at the address listed above no later than **2:00 p.m. on Monday July 11, 2022**. Late Proposals will not be accepted, regardless of the reason.

Proposal envelopes must be **sealed and marked** with the Bid number, due date, and name of Proposer so as to identify the enclosed submittal. If more than one package is submitted, please mark "1 of 2", "2 of 2", etc.

### **INTERPRETATION OF SPECIFICATION**

**All questions** pertaining to the terms and conditions of the scope of work of this Bid/Proposal must be submitted **in writing** via email to the City Clerk as shown below:

Janice L. Peters, MMC, City Clerk  
City of Callaway  
6601 East Hwy. 22  
Callaway, FL 32404  
jpeters@cityofcallaway.com

**No oral interpretations will be made to any firm as to the meaning of specifications or any other contract documents. In accordance with Florida Statutes 287.057(23), "Respondents to this solicitation or persons acting on their behalf may not contact, between the release of the solicitation and the end of the 72-hour period following the agency posting the notice of intended award, excluding Saturdays, Sundays, and state holidays, any employee or officer of the executive or legislative branch concerning any aspect of this solicitation, except in writing to the procurement officer or as provided in the solicitation documents. Violation of this provision may be grounds for rejecting a response." Questions must be submitted as referenced above.**

All questions must be received at least five (5) calendar days prior to the scheduled opening of Bids/Proposals. Any interpretation of the Bid/Proposal terms, conditions, and/or specification, if made, will be only by Addendum issued by the City Clerk. A copy of such Addendum will be posted to the City's website at [www.cityofcallaway.com](http://www.cityofcallaway.com) and mailed to each proposer that received a copy of the advertisement of the Request for Bids/Proposals. **IT IS THE RESPONSIBILITY OF THE BIDDER/PROPOSER TO CHECK THE CITY'S WEBSITE FOR ANY ADDENDUMS PRIOR TO SUBMITTING A BID/PROPOSAL.** No verbal instructions or interpretations of drawings and specifications will be made other than indicated above.

The City reserves the right to reject any or all proposals, to waive informalities in the Bids/Proposals and to re-advertise for Bids/Proposals. The City also reserves the right to separately accept or reject any item or items of a Bid/Proposal and to award and/or negotiate a contract in the best interest of the City.

# TABLE OF CONTENTS



## **CITY OF CALLAWAY PAVING IMPROVEMENTS BID NO: PW2022-12**

	<u>Total Pages Per Section</u>
<b>SPECIAL INSTRUCTIONS AND CONDITIONS.....</b>	<b>2</b>
<b>GENERAL INSTRUCTIONS AND CONDITIONS .....</b>	<b>9</b>
<b>AGREEMENT FOR CONTRACTOR SERVICES .....</b>	<b>18</b>
<b>EXHIBIT A – SPECIAL FEDERAL PROVISIONS</b>	
<b>EXHIBIT B – DAVIS BACON ACT</b>	
<b>SALES TAX EXEMPT PURCHASING AGREEMENT .....</b>	<b>4</b>
<b>BID/PROPOSAL CHECKLIST .....</b>	<b>1</b>
<b>BID CERTIFICATION FORM.....</b>	<b>7</b>
<b>PUBLIC ENTITY CRIMES STATEMENT .....</b>	<b>2</b>
<b>DRUG-FREE WORKPLACE CERTIFICATION.....</b>	<b>1</b>
<b>PROPRIETARY/CONFIDENTIAL INFORMATION FORM .....</b>	<b>1</b>
<b>CONFLICT-OF-INTEREST FORM.....</b>	<b>1</b>
<b>ANTI-COLLUSION STATEMENT .....</b>	<b>2</b>
<b>SCOPE OF WORK.....</b>	<b>46</b>
<b>GEOTECHNICAL REPORTS:</b>	
• <b>ENZOR STREET .....</b>	<b>10</b>
• <b>LOOP ROAD .....</b>	<b>11</b>
• <b>IMPERIAL DRIVE.....</b>	<b>11</b>
<b>PLANS .....</b>	<b>34</b>

**CITY OF CALLAWAY**  
**SPECIAL INSTRUCTIONS AND CONDITIONS**  
**PAVING IMPROVEMENTS**  
**BID NO: PW2022-12**

\* Note: The GENERAL INSTRUCTIONS AND CONDITIONS (attached hereto) apply, except as set forth below, for this Bid.

**A. Description: ( ) See Attached (X) As Follows**

The project scope includes roadway, utility, and storm water management improvements on three (3) different streets. The three road locations are as follows **1) Enzor Street, 2) Callaway Sports Complex Loop Road, and 3) Imperial Drive**. The Enzor Street improvements include approximately 2,625 linear feet of new roadway with asphalt rehabilitation and paving, residential driveways, and new pavement markings from Tyndall Parkway east to Kimbrel Avenue. The Callaway Sports Complex Loop Road improvements include 640 linear feet of a new asphalt roadway, 98 new grassed parking spaces, a new storm water collection pond, 175 linear feet of 18” ADS HP pipe, and one new outfall structure. Imperial Drive improvements include 500 linear feet of new asphalt roadway, 550 linear feet of new 6” water main, 6 new water service connections, 2 new fire hydrants, 140 linear feet of new 8” gravity sewer, one new sewer manhole, and a small section of concrete ditch paving for storm water runoff.

**B. Specifications: (X) See Attached ( ) As follows:**

See attached Scope of Work

**C. Contract/Agreement Required: ( ) None (X) As follows: See enclosed Contract**

**D. Items to be submitted with Bid: ( ) None (X) As follows:**

- One (1) unbound original with three (3) copies of the bid submittal,
- List of five (5) references for similar type work with contact information,
- List of Subcontractors, if applicable,
- Bid/Certification Form(s) with signature page(s),
- State of Florida License Copy,
- Sales Tax Exempt Purchasing Agreement
- Public Entity Crimes Statement,
- Drug Free Workplace Certification,
- Proprietary/Confidential Information Form
- Anti-Collusion Statement
- Conflict of Interest Form

**E. Deadline and place for submission of Bids:**

**2:00 p.m., MONDAY, JULY 11, 2022 (BID DEADLINE)**  
**City Hall**  
**6601 East Hwy. 22**  
**Callaway, FL 32404**

**F. Time and place for OPENING of Bids:**

**2:15 p.m., MONDAY, JULY 11, 2022,**  
**City of Callaway ARTS & CONFERENCE CENTER - 500 CALLAWAY PARK WAY.**

G. **Insurance Requirements:** ( ) None (X) As follows:

	<u>Minimum Coverage</u>
<u>Property Damage:</u>	\$ 500,000
<u>General Liability:</u>	\$ 1,000,000/2,000,000
<u>Automobile Liability:</u>	\$ 1,000,000/2,000,000
<u>Workers' Compensation:</u>	\$ <u>Statutory Limit</u> *

**Note: Insurance Certificate must be provided by Successful Bidder upon execution of Agreement. City is to be listed on the bidder's/proposer's Certificate of Insurance as additionally insured and certificate holder in order for the City to be notified if the insurance is canceled or modified.**

H. **Bond Requirements:** ( ) None (X) As follows:

	<u>Amount of Bond</u>
Bid Bond	\$ _____ or <u>5</u> % of Bid
Performance Bond	\$ _____ or <u>100</u> % of Bid
Payment Bond	\$ _____ or <u>100</u> % of Bid
Construction Bond	\$ _____ or <u>N/A</u> % of Bid
Other: _____	\$ _____ or <u>N/A</u> % of Bid

All required bonds should be printed on the issuing company's official forms.

I. **Number of Copies of Bid Forms with original signature(s) Required:**

One (1) unbound original, with notarized Signatures, plus three (3) copies

***NOTICE: Proposals may be rejected if all documents are not complete and executed, and the numbers of copies specified/requested of each are not submitted with the proposal.***

# GENERAL INSTRUCTIONS AND CONDITIONS

## (1) NOTICE TO BIDDERS/PROPOSERS

The following general instructions and conditions apply to all Requests for Bids/Proposals unless modified by the provisions set forth in the “**Special Instructions and Conditions**” attached hereto. If there is a conflict between the “Special Instructions and Conditions” and these “General Instructions and Conditions,” the provisions in the Special Instructions and Conditions will apply. **Note: The General Instructions and Conditions and the Special Instructions and Conditions are periodically revised; potential Bidders/Proposers should read both carefully prior to submitting a Bid/Proposal. The attached Special Instructions and Conditions apply only to this Bid/Proposal.**

## (2) SUBMITTAL OF BIDS/PROPOSALS

Qualified businesses or individuals requesting consideration must submit a complete Bid/Proposal with any/all attachments in a sealed package clearly marked with the **name and number of the Bid/Proposal**, to the attention of the City Clerk, prior to closing time at the address shown in the **Special Instructions and Conditions** attached hereto. If not so marked as to this wording, sealed and/or received by the closing time, the Bid/Proposal will not be accepted. Bid/Proposal packages, additional information regarding this Bid/Proposal, or the bidding procedures may be obtained by contacting the City Clerk, 6601 East Hwy. 22, Callaway, FL 32404, (850) 215-6694.

It shall be the sole responsibility of the Bidders/Proposers to have their Bid/Proposal delivered on or before the closing time and date stated in the **Special Instructions and Conditions**. Any Bids/Proposals received after the stated time and/or due to delays caused by mail or courier delivery, or any other reason, shall not be opened or otherwise considered, and will be returned at the bidder's/proposer's expense.

Bids/Proposals shall be opened and publicly announced at the City Clerk's Office, City Hall, 6601 East Hwy. 22, Callaway, Florida, after closing of Bids/Proposals, unless otherwise specified in the Special Instructions and Conditions.

## (3) SPECIFICATIONS AND REQUIREMENTS

The detailed specifications and additional requirements relating to this Bid/Proposal are set forth in the Special Instructions and Conditions attached hereto.

**SILENCE OF SPECIFICATIONS:** The apparent silence of any specification as to any details or any omission of a detailed description concerning any point shall be regarded as meaning that only the best construction practices are to prevail and that only new materials of first quality and correct type, size and design are to be used. All workmanship is to be first quality. All interpretations of specifications shall be made accordingly by the City.

## (4) BID/PROPOSAL FORM

Bidders/Proposers shall complete, sign, and furnish the “Bid Certification Form”, together with the forms, specifications and materials required in the “Special Instructions and Conditions” or any exhibits attached hereto. This will include a properly executed Drug-Free Workplace Certification, and a Sworn Statement on Public Entity Crimes Form, pursuant to Section 287.133(3)(a), Florida Statutes. The minimum number of complete Bid/Proposal packages to be submitted is set forth in the Special Instructions and Conditions.

If the “Special Instructions and Conditions” include a “Scope of Work” provision, and/or provide for a supplemental and or implementing agreement, the City reserves the right to modify the "Scope of Services." Further, the terms and conditions of any such agreement shall be modified prior to execution by the City, if such modifications are determined to be in the best interest of the City.

Bids/Proposals may be considered non-responsive, at the sole option of the City, and may be rejected if they include omissions, alterations of form, additions not called for, conditions or limitations, unauthorized alternate Bids/Proposals, submission of less than the number of bid packages requested, or other irregularities of any kind.

Unless otherwise stated, the price(s) set forth in the Bid/Proposal include(s) all costs and expenses for labor, equipment, materials, commissions, transportation charges and expenses, handling material inspection, and patent fees and royalties, together with all other costs and expenses for providing the service, equipment, materials or performing and completing the work as shown according to the plans and specifications herein.

If quotations are requested for the various items of work, they are intended to establish a total price for providing the materials, equipment, services, or completing the work in its entirety. If the Bidder/Proposer determines that the cost for any item of work has not been established by the Proposal Form, the cost for that work is to be included in other applicable Bid/Proposal item(s), so that the Bid/Proposal reflects the total price for completing that work in its entirety.

In the event of a discrepancy between a unit bid price and an extension, the unit bid price will govern. Written prices shall govern over figures.

**(5) CLARIFICATION AND ADDENDA**

Each Bidder/Proposer shall examine all Bid/Proposal documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries, suggestions or requests concerning the interpretation, clarification or additional information pertaining to this Invitation to Bid/Request for Bid/Proposal will be accepted by the City Clerk up to and including five (5) working days prior to the closing date and time stated herein. The issuance of a written addendum signed by the City Clerk is the only official method whereby interpretation, clarification or additional information can be given. The City shall not be responsible for oral interpretations given by any City employee, representative or others. If any addenda are issued, the City will attempt to notify all known prospective Bidders/Proposers. However, it shall be the responsibility of each Bidder/Proposer, prior to submitting a Bid/Proposal, to contact the City Clerk's Office to determine if addenda were issued, and to make such addenda a part of the Bid/Proposal. If an addendum has been issued and was not incorporated in the Bid/Proposal documents submitted by Bidder/Proposer, the Bid/Proposal may not be accepted or considered by the City.

**(6) MANUFACTURER'S NAMES AND APPROVED EQUIVALENTS**

Unless otherwise specifically stated in the Special Instructions and Conditions, any manufacturer's names, trade names, brand names, catalog numbers, or similar information listed in a specification, are for the purpose of information and illustration, and are not intended to restrict the submission of alternates meeting minimum specifications. The Bidder/Proposer may offer the same or any alternate for which the Bidder/Proposer is an authorized representative, which meets or exceeds the specifications for any item. If a manufacturer's name or model is included in the specification, and a Bid/Proposal is based on alternate products or services which Bidder/Proposer maintains is equivalent and meets or exceeds specifications, Bidder/Proposer is to indicate on the Bid/Proposal Form the manufacturer's name and related information of the alternate, including any deviation from the specifications. Unless expressly noted on the Bid/Proposal that an alternate is being

proposed, and the specification includes a specific manufacturer's model or brand, the Bid/Proposal will be considered as a quotation for the item(s) stated in the specifications.

**(7) INFORMATION AND DESCRIPTIVE LITERATURE**

Bidders/Proposers must furnish all information requested in the Bid/Proposal packet including but not limited to any sketches, plans, designs, specification, and descriptive literature regarding the product(s)/service(s) being offered. Bids/Proposals which do not comply with these requirements are subject to rejection. Reference to submission of documentation or materials with a previous Bid/Proposal will not satisfy this provision.

**(8) BONDS/INSURANCE**

If the Bid/Proposal is accepted by the City, it will become a binding contract on both parties. If a bond or cashiers/certified check is required as a bond, it shall be submitted with the Bid/Proposal. If the undersigned shall fail to deliver or perform, or if applicable, execute a contract if provided for herein, then the City may, at its option, determine that the undersigned has abandoned the award/contract, and thereupon such acceptance of the Bid/Proposal and/or award shall be null and void, and any cashiers/certified check or bond accompanying this Bid/Proposal shall be forfeited to and become the property of the City. The full amount of said check, or if a bond, the full amount of such bond, shall be paid to the City as partial liquidated damages; otherwise, any bond or cashiers/certified check accompanying this Bid/Proposal shall be returned to the undersigned within 30 calendar days from the date of award, or if provisions for a Notice to Proceed are included, from the date of the Notice to Proceed.

If a bid or proposal bond is required, the bonds of unsuccessful Bidders/Proposers will be returned within 30 calendar days of the Bid/Proposal due date, except as set forth below.

If a proposal is subject to the Competitive Negotiations Act, the bonds will be returned within 60 days of the proposal due date, except for the bond of the 3 highest ranked proposers. Within 30 days of execution of a contract, bonds from the remaining unsuccessful proposers will be returned.

Bid bond, if required, will be returned within 30 calendar days of delivery/acceptance of the item(s) bid or service(s) provided, unless a standard payment and performance bond is required. When a standard Payment and Performance Bond is required, the bid bond of the successful Bidder/Proposer will be returned within 30 calendar days from the date of the Notice to Proceed.

In the event a bid is awarded, a proposal is accepted, and/or a contract is executed, and the Bidder/Proposer chooses not to proceed, or fails to perform for any reason, the bond will be forfeited and retained by the City as partial liquidated damages. Future Bids/Proposals will not be accepted for consideration from the Bidder/Proposer for five (5) years, or such shorter period as the City Commission may determine.

In the event an award/selection is not made within 90 days after the Bid/Proposal due date and the City does not return all bonds, upon 30 business days written request, a bidders/proposer may withdraw their bid or proposal from consideration and obtain a refund of the Bid/Proposal bond.

All Awards will be subject to presentation of any required performance bond or certificate of insurance prior to any purchase authorizations, agreements, contract documents, or delivery. The Bidder/Proposer shall maintain any performance bonds or insurance coverage set forth in the Special Instructions and Conditions, at its own expense. If insurance is required, the City is to be listed on the bidder/proposer's Certificate of Insurance as an additional insured and certificate holder in order that the City will be notified if the insurance is canceled or modified. The certificate shall also list the name of the project/service/equipment purchased, and the expiration



date of the policy. At the City's option, an award may be canceled, and any bid bond forfeited if any required performance bond or insurance certificate is not delivered within 21 calendar days of the date of award.

***Note:** The provisions of this section are in addition to and not a replacement for, any Bid/Proposal and/or performance bond required in the Special Instructions and Conditions. The foregoing provisions are intended to be in addition to any other legal remedy available to the City for non-performance by a Bidder/Proposer subsequent to the acceptance and/or award of a bid or proposal.*

**(9) SERVICE AND WARRANTY**

If any warranty repair or replacement service is requested in the Special Instructions and Conditions, any deviation or limitation from the requirements is to be expressly stated on the Bid Request for Proposal Certification Form.

If the service or product provided to the City pursuant to the bid consists of computer hardware, software or firmware, the Bidder/Proposer warrants that said product will accurately process/or reflect data from, into and between the twentieth and twenty-first centuries, including leap-year calculations.

**(10) CONTRACT FORMS**

Any agreement or contract resulting from the acceptance of a Bid/Proposal shall be on forms either supplied by or approved by the City, and shall contain, as a minimum, applicable provisions of the Invitation to Bid/Request for Proposal, and the Bid/Proposal documents to be submitted by Bidder/Proposer, including the Special Instructions and Conditions, General Instructions and Conditions, and all attachments therewith. The City reserves the right to reject any Bid/Proposal or resulting agreement which does not conform to the Invitation to Bid/Proposal and, if applicable, any City requirement relating to such an Agreement.

The City reserves the right to extend any contract or agreement for an additional period of not more than ninety (90) days beyond the original expiration date. Prices in effect on the last day of the contract shall remain in effect for the contract extension period. Additional extensions shall be subject to agreement of both parties.

The successful Bidder/Proposer will be required to execute any resulting agreement and provide any bonds or insurance certificates required within 10 days of contract execution. Failure to timely execute the necessary bond or insurance certificate will result in cancellation of an award, with no further obligation by the City.

This Bid/Proposal is subject to the appropriation of funds in an amount sufficient to allow continuation of the City's performance in accordance with the terms and conditions of this Bid/Proposal for each and every fiscal year in which this Bid/Proposal is executed and entered into. If funds are not appropriated/available, the City shall provide prompt written notice to the selected Bidder/Proposer that effective thirty (30) days after giving such notice, or upon the expiration of the time for which funds were appropriated, whichever occurs first, the City will thereafter be released of all further obligations related to the Bid/Proposal and/or award.

**(11) BID/PROPOSAL EXPENSES**

All expenses for preparing and submitting Bids/Proposals to the City are to be borne by the Bidder/Proposer.

**(12) VARIANCES**

Any variance whatsoever from the Bid/Proposal Specifications are to be clearly identified on the Bid/Proposal form. Acceptance of any proposed variations will be at the sole discretion of the City.

**(13) CONFLICT OF INTEREST**

The award of a bid or acceptance of proposal is subject to Chapter 112, Florida Statutes. All Bidders/Proposers must disclose with their Bid/Proposal the name of any officer, director, or agent who is a city official or employee, or a member of an official's or employee's immediate family. Further, Bidders/Proposers must disclose the name of any city official or employee, or a member of an official's or employee's immediate family, who owns directly or indirectly an interest of ten percent (10%) or more in the bidder's/proposer's firm or related business.

**(14) DELIVERY**

All items provided pursuant to an award are to be delivered prepaid to the City Clerk's Office, 6601 East Hwy. 22, Callaway, Florida 32404-2041, unless a different location is specified in the Special Instructions and Conditions. All delivery charges are to be included in the Bid/Proposal price. No Collect on Delivery (C.O.D.) will be accepted. Title and risk of loss or damage to all items shall be the responsibility of the Bidder/Proposer until delivered to the City.

**(15) INSPECTION, ACCEPTANCE AND TITLE**

All items delivered pursuant to an award are subject to inspection and review prior to acceptance by the City. Acceptance, evidenced by separately written Notice of Acceptance or full payment, will be made only after verification of compliance with all specifications. Acknowledgment of delivery and/or partial payment does not constitute acceptance.

**(16) OWNERSHIP RIGHTS AND PUBLIC RECORDS LAW**

Public Records Law. Bidder/Proposer acknowledges that they are familiar with the provisions of the Public Records Law of the State of Florida.

Bidder/Proposer agrees to comply with Chapter 119, Florida Statutes, and specifically per Florida Statute 119.0701, Bidder/Proposer agrees to keep and maintain public records that would be required by the City of Callaway in order to perform the services provided for in this agreement; Bidder/Proposer agrees to provide public access to any required public records in the same manner as a public agency; Bidder/Proposer agrees to protect exempt or confidential records from disclosure; Bidder/Proposer agrees to meet public records retention requirement; and Bidder/Proposer agrees that at the end of the term of this agreement, to transfer all public records to the City of Callaway and destroy any duplicate, exempt or confidential public records.

All products generated by the Bidder/Proposer for the City become the property of the City. The City may require submission of any electronic file version of reports, data, maps, or other submission of documentation produced for or as a result of this Bid/Proposal in addition to paper documents.

Further, in accordance with the Public Records Laws of the State of Florida, Section 119.0701, (2013), Contractor must:

- A. Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.
- B. Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

- C. Ensure that public records that are exempt or confidential and exempt from public records are not disclosed except as authorized by law.
- D. Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public record disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.
- E. If a contractor does not comply with a public records request, the public agency shall enforce the contract provision in accordance with the contract.

**(17) RESERVED RIGHTS**

The City reserves the right to reject any and all Bids/Proposals, with or without statement of cause, request resubmissions, or to waive any irregularities or technicality or negotiate modifications to any Bid/Proposal which may be in the best interest of the City.

Bidders/Proposers which do not normally engage in providing the types of commodities/services specified herein may be required to demonstrate they have sufficient financial support, equipment, and organization to ensure they can satisfactorily perform if awarded a bid/contract under the terms and conditions herein stated.

The City reserves the right to make such investigations as it deems necessary to determine the ability of any Bidder/Proposer to perform the work or service requested. Any information the City deems necessary to make such determinations shall be provided by the Bidder/Proposer upon request as a condition of further consideration of the Bid/Proposal. The applicability of all information obtained, and the City's decision shall be final. By submitting a bid or proposal, Bidder/Proposer authorizes such investigation.

If the contract awarded as a result of this bid is terminated prior to the end of the term, the City reserves the right to award the balance of the contract to the next lowest responsive and responsible bidder.

**(18) ADVERTISING**

In submitting a Bid/Proposal, Bidder/Proposer agrees not to use the results therefrom as a part of any commercial advertising or marketing purposes without written approval of the City Manager.

**(19) GOVERNMENTAL RESTRICTIONS/REQUIREMENTS**

In the event any governmental restrictions are imposed which would necessitate alteration of the material, quality, workmanship, or performance of the items offered in a Bid/Proposal, it shall be the responsibility of the successful Bidder/Proposer to immediately notify the City of the specific regulation which required an alteration, and the specific alterations that will be made to the item(s) bid/proposed. The City reserves the right to accept any such alteration/substitution, including any price adjustments resulting therefrom, or to cancel the award at no expense to the City.

**(20) NON-DISCRIMINATION**

There shall be no discrimination as to race, sex, color, creed, handicap, or national origin in the selection, award, or operations conducted, or performance related to any bid or proposal.

**(21) UNAUTHORIZED EMPLOYEES OR AGENTS**

Employment of unauthorized aliens by Bidder/Proposer is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If selected Bidder/Proposer knowingly employs unauthorized aliens, such action shall be cause for unilateral cancellation of this agreement and the City may recover damages from selected Bidder/Proposer resulting from such cancellation. The selected Bidder/Proposer shall be responsible for including this provision in any context with, and requiring compliance by any/all subcontracts performing for selected Bidder/Proposer relating to this agreement.

**(22) OTHER GOVERNMENTAL ENTITIES - OPTIONAL APPLICATION**

In the State of Florida, other Florida public entities may “piggy-back” on competitive Bid/Proposal awards under the same terms and conditions, if all parties are in agreement.

**(23) LEGAL NAME**

Bids/Proposals shall clearly indicate the legal name and organizational structure, business address, telephone number, and email address of the Bidder/Proposer. Bids/Proposals shall be signed above the typed or printed name and title of the individual submitting the Bid/Proposal. The signer shall warrant he/she has the authority to bind the Bidder/Proposer to the terms and conditions of the submitted Bid/Proposal.

**(24) WAGES**

State and Federal minimum wage and hour regulation apply to Bidder/Proposer and all subcontractors.

**(25) SELECTION**

The city intends to award this bid to the lowest responsive and responsible bidder or bidders. However, the city reserves the right to reject any and all Bids/Proposals. The procedures for the selection/award of Bids/Proposals are provided for by Florida Statutes and the City’s Charter, Code of Ordinances, and Administrative Policies. Generally, all Bids/Proposals are reviewed by City staff and evaluated by the City Manager, and if required by law, by a Selection Advisory Committee appointed by the City Manager. The type and price of the product(s) or service(s) being acquired determines if an award or selection may be made by the City Manager or requires City Commission approval. For information on which procedure applies to a particular Bid/Proposal contact the City Clerk.

Bids/Proposals will be evaluated based on, but not limited to, one or more of the following criteria as appropriate:

- compliance with specifications,
- price (if applicable),
- capability/adequacy of Bidder/Proposer,
- past and current projects, services or equipment provided to the City,
- delivery schedule,
- prior government projects, services or equipment provided to other jurisdictions, and
- general reputation, location, and references.

Separate procedures and requirements relating to Requests for Bids/Proposals/Qualifications apply for certain grant programs and for professional services, for example the Consultants’ Competitive Negotiation Act (Florida Statute 287.055), and by the City’s Code. When the City initiates such a Request for

Proposals/Qualifications, the selection process and related procedures are included in the Special Instructions and Conditions.

Pursuant to Chapter 287.087 Florida Statutes, in the event two (2) or more bids are equal with respect to price, quantity, and services, preference will be given to Bidders/Proposers which have implemented Drug-Free Workplace Programs.

Further, per 287.087(11) "If two equal responses to a solicitation or a request for quote are received and one response is from a certified minority business enterprise, the agency shall enter into a contract with the certified minority business enterprise." In addition, at the sole discretion of the City, payment terms, conditions, and other consequential information may be utilized in resolving apparent tie Bids/Proposals.

**NOTE: For consideration, Bidder/Proposer must return the Bid Certification Form included in the Bid/Proposal package.**

**(26) INDEMNIFY**

After notification of award, the successful Bidder/Proposer agrees to defend, indemnify and hold harmless the City and its officials, officers, employees, agents, and invites, from and against all claims, suits, sections, damages, or causes of action arising from any personal injury, loss of life or damage to property, sustained by reason of, or as a result of constructing, manufacturing, processing, delivery, or performance of the services or work for which the Bid/Proposal was awarded or any resulting agreement executed, and from and against any orders, judgments, or decrees which may be entered thereto, and from and against all costs, attorney's fees, expenses, and liabilities incurred in or by reason of the defense of any such claim, suit or action, and the investigation thereof. Nothing in any resulting agreement shall be deemed to affect the rights, privileges, and immunities of the City of Callaway.

The selected Bidder/Proposer, without exception, shall also indemnify and hold harmless the City and its officials, employees, agents, and invites from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process or article manufactured or used in the performance of the contract, including its use by the City. If the selected Bidder/Proposer uses any design, device or materials covered by patent or copyright, it is mutually agreed and understood that the Bid/Proposal prices include all royalties or costs arising from the use in any way of such design, device or materials involved in the product and/or services provided to the City.

**(27) MODIFICATION - AFTER AWARD**

Any changes proposed by a Bidder/Proposer after an award in (a) materials used, (b) manufacturing process, (c) construction or (d) specifications, are to be submitted in writing to the City Manager prior to delivery. No changes shall be approved and binding upon the City unless evidenced by a Change Order issued and signed by the City Manager.

**(28) ASSIGNMENT**

Any purchase order issued pursuant to this bid invitation/request for proposal and the funds which may become due hereunder, are not assignable, except with the prior written approval of the City Manager.

**(29) DISCLOSURE**

Bidder/Proposer acknowledges by submitting a Bid/Proposal that all information provided to the City is part of the public domain as defined by Florida Statutes and is considered a public record. Information should not be labeled “confidential,” unless specifically exempted under said Statutes, and exempts the City from any liability for releasing all information to the public, including inadvertently releasing information deemed confidential by the Bidder/Proposer.

**(30) TAXES**

The city is a tax-exempt Florida municipality, Federal Employment Identification Number 59-6000-284, Florida State Tax Number 37-02-008131-54C. Copies of Exemption Certificate and related information may be obtained by contacting the City Clerk, City of Callaway, 6601 East Hwy. 22, Callaway, Florida 32404-2041 or (850) 215-6694.

**(31) APPLICABLE LAWS/LEGAL VENUE**

All applicable laws, regulations and ordinances of the State of Florida, Bay County and the City of Callaway will apply to consideration and award of any Bid/Proposal and the performance of the Bidder/Proposer pursuant thereto and shall be governed by the laws of the State of Florida both as to intention and performance. The venue for any action arising from the award or subsequent performance shall lie exclusively in the Circuit Court of Bay County, Florida, or the United States District Court for the Northern District of Florida, as applicable.

***NOTE: ANY AND ALL PROVISIONS SET FORTH IN THE SPECIAL INSTRUCTIONS AND CONDITIONS ATTACHED HERETO, WHICH VARY FROM THESE GENERAL INSTRUCTIONS AND CONDITIONS, SHALL HAVE PRECEDENCE.***

**AGREEMENT FOR CONTRACTOR SERVICES  
PAVING IMPROVEMENTS  
BID NO: PW2022-12**

This Agreement made as of this \_\_\_ day of \_\_\_\_\_, 2022, by and between the **City of Callaway**, Florida - (the "CITY"), and \_\_\_\_\_, authorized to do business in the State of Florida (the "CONTRACTOR"), and whose address is \_\_\_\_\_; Phone: \_\_\_\_\_.

In consideration of the mutual promises contained herein, the CITY and the CONTRACTOR agree as follows:

**ARTICLE 1 - SERVICES**

The CONTRACTOR'S responsibility under this Agreement is to furnish, deliver, and construct all materials, labor, and equipment and to perform all operations in accordance with the plans and specifications and as listed in the Bid Form for **BID NO. PW2022-12 PAVING IMPROVEMENTS**.

**CONTRACTOR shall comply with all applicable procedures, guidelines, manuals, standards, and directives as described in the Special Federal Provisions (ATTACHED HERETO AS EXHIBIT A), along with the Davis-Bacon Act (ATTACHED HERETO AS EXHIBIT B). The contractor will also be responsible for including these requirements in any subcontract.**

Services of the CONTRACTOR shall be under the general direction of the CITY MANAGER, who may designate a person to act as the CITY'S representative (hereinafter "REPRESENTATIVE") during the performance of this Agreement.

The CITY shall furnish to the CONTRACTOR up to four (4) sets of the Contract Documents for execution of the Work. Additional copies of the Contract Documents are available at the cost of reproduction.

**ARTICLE 2 - SCHEDULE**

The CONTRACTOR will commence the work required by the CONTRACT DOCUMENTS within 10 calendar days of approval and will substantially complete the project within 90 consecutive calendar days after the date of the NOTICE TO PROCEED, unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS. A Limited Notice to Proceed may be issued to allow for the current state of supply and demand.

**ARTICLE 3 - PAYMENTS TO CONTRACTOR**

- A. The CITY shall pay to the CONTRACTOR for services satisfactorily performed \$ \_\_\_\_\_ which includes all direct charges, indirect charges and reimbursable expenses, if any. The CONTRACTOR will bill the CITY monthly.
- B. The invoices received from the CONTRACTOR pursuant to this Agreement will be reviewed and approved by the City Manager's office, indicating that services have been rendered in conformity with the Agreement, and then will be sent to the Finance Department for payment. The invoice must specify the work performed. Ten percent (10%) of each invoiced amount will be withheld and retained by the CITY until completion of the work to the satisfaction of the CITY.
- C. In order for both parties herein to close their books and records, the CONTRACTOR will clearly state "final invoice" on the CONTRACTOR'S final/last billing to the CITY. This indicates that

all services have been performed and all charges and costs have been invoiced to the CITY. Since this account will thereupon be closed, any and other further charges if not properly included on this final invoice shall be waived by the CONTRACTOR.

- D. CONTRACTOR acknowledges that it has reviewed the scope of work and inspected the work site and does not anticipate having any CONTRACTOR requested change orders.

#### **ARTICLE 4 - TERMINATION**

This Agreement may be terminated by the CONTRACTOR on 60 days prior written notice to the CITY in the event of substantial failure by the CITY to perform in accordance with the terms hereof through no fault of the CONTRACTOR. It may also be terminated by the CITY, with or without cause, immediately upon written notice to the CONTRACTOR. Unless the CONTRACTOR is in breach of this Agreement, the CONTRACTOR shall be paid for services rendered to the CITY'S satisfaction through the date of termination. After receipt of a termination notice and except as otherwise directed by the CITY the CONTRACTOR shall:

- A. Stop work on the date and to the extent specified.
- B. Terminate and settle all orders and subcontracts relating to the performance of the terminated work.
- C. Transfer all work in process, completed work, and other material related to the terminated work to the CITY.
- D. Continue and complete all parts of the work that have not been terminated.

#### **ARTICLE 5 - PERSONNEL**

The CONTRACTOR represents that it has or will secure at its own expense all necessary personnel required to perform the services under this Agreement. Such personnel shall not be employees of or have any contractual relationship with the CITY.

All of the services required herein under shall be performed by the CONTRACTOR or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under State and local law to perform such services.

The CONTRACTOR warrants that all services shall be performed by skilled and competent personnel to the highest professional standards in the field.

#### **ARTICLE 6 - SUBCONTRACTING**

The CITY reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make a determination as to the capability of the subcontractor to perform properly under this Agreement. The CONTRACTOR is encouraged to seek minority and women business enterprises for participation in subcontracting opportunities.

If a subcontractor fails to perform or make progress, as required by this Agreement, and it is necessary to replace the subcontractor to complete the work in a timely fashion, the CONTRACTOR shall promptly do so, subject to acceptance of the new subcontractor by the CITY.



## **ARTICLE 7 - FEDERAL AND STATE TAX**

The CONTRACTOR shall be responsible for payment of its own FICA and Social Security benefits with respect to this Agreement and the personnel it employs.

## **ARTICLE 8 – INSURANCE & BONDS**

- A. The CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance and bonds required under this paragraph and such insurance has been verified by the CITY.
- B. All insurance policies shall be issued by companies authorized to do business under the laws of the State of Florida.

The CONTRACTOR shall maintain, during the life of this Agreement, comprehensive automobile liability insurance in the amount of \$1,000,000 and \$2,000,000 combined single limit for property damage and bodily injury liability covering claims which may arise from the ownership, use, or maintenance of owned and non-owned automobiles, including rented automobiles, whether such operations be by the CONTRACTOR or by anyone directly or indirectly employed by the CONTRACTOR. CONTRACTOR shall purchase and maintain a policy or policies of commercial general liability insurance satisfactory in all respects to CITY, and casualty and extended coverage insurance. All policies shall be occurrence form policies and shall name CITY as an additional insured, with the premium thereon fully paid by CONTRACTOR on or before their due date. The general liability insurance policy shall afford minimum protection of \$1,000,000 and \$2,000,000 combined single limit coverage for bodily injury.

Required insurance shall be documented in Certificates of Insurance which provide that CITY shall be notified at least 30 days in advance of cancellation, non-renewal, or adverse change. New Certificates of Insurance are to be provided to CITY at least 15 days prior to coverage renewals. City of Callaway, Florida is to be named as an additional insured entity.

If requested by CITY, CONTRACTOR shall furnish complete copies of its insurance policies, forms and endorsements.

For commercial general liability coverage, CONTRACTOR shall, at the option of CITY, provide an indication of the amount of claims, payments or reserves chargeable to the aggregate amount of liability coverage.

Receipt of certificates or other documentation of insurance or policies or copies of policies by CITY, or by any of its representatives, which indicate less coverage than required does not constitute a waiver of CONTRACTOR'S obligation to fulfill the insurance requirements herein.

CONTRACTOR shall also purchase and maintain workers compensation insurance for all obligations imposed by law, with employer's liability limits of at least the statutory limit, or provide notarized affidavit of exemption listing relevant statutes. CONTRACTOR shall also purchase any other coverage required by law.

CONTRACTOR'S maintenance of the insurance policies required hereunder shall not limit or otherwise affect its liability hereunder.

- C. If a performance or payment bond is required due to use of grant funds for the project, by City Commission or as otherwise required, the CONTRACTOR shall not commence work under this Agreement until it has obtained the required bonds and provided such bonds to the CITY.

## **ARTICLE 9 - EXCUSABLE DELAYS**

The CONTRACTOR shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the CONTRACTOR'S control and without its fault or negligence. Such causes may include but are not limited to acts of God; the City's omissive and commissive failures; natural or public health emergencies; labor disputes; freight embargoes; and severe weather conditions. If failure to perform is caused by the failure of the CONTRACTOR'S subcontractor(s) and is without the fault or negligence of them, the CONTRACTOR shall not be deemed to be in default.

Upon the CONTRACTOR'S request, the CITY shall consider the facts and extent of any failure to perform the work and, if the CONTRACTOR'S failure to perform was without its fault or negligence as determined by the CITY, any affected provision of this Agreement shall be revised; accordingly, subject to the CITY's rights to change, terminate, or stop any or all the work at anytime.

## **ARTICLE 10 - LIQUIDATED DAMAGES**

Liquidated damages shall be paid to the CITY at the rate of \$200 per day for all work awarded under the contract until the work has been satisfactorily completed as provided by the Contract Documents. Sundays and Legal Holidays shall be excluded in determining days in default.

It is agreed that the amount is the per-diem rate for damage incurred by reason of failure to complete the work. The said amount is hereby agreed upon as the reasonable costs which may be accrued by the CITY after the expiration of the time of completion. It is expressly understood and agreed that this amount is not to be considered in the nature of a penalty, but as liquidated damages which have accrued against the CONTRACTOR. The CITY shall have the right to deduct such damages from any amount due, or that may become due the CONTRACTOR, or the amount of such damages shall be due and collectable from the CONTRACTOR or Surety.

## **ARTICLE 11 - ARREARS**

The CONTRACTOR shall not pledge the CITY'S credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien, or any form of indebtedness.

## **ARTICLE 12 - DISCLOSURE AND OWNERSHIP OF DOCUMENTS**

The CONTRACTOR shall deliver to the CITY for approval and acceptance, and before being eligible for final payment of any amount due, all documents and materials prepared by and for the CITY under this Agreement.

All written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the CITY or at its expense will be kept confidential by the CONTRACTOR and will not be disclosed to any other party, directly or indirectly, without the CITY'S prior written consent.

Such information and data shall be and will remain the CITY'S property and may be reproduced and reused at the discretion of the CITY.

All products generated by the CONTRACTOR for the CITY become the property of the CITY. The CITY may require submission of any electronic file version of reports, data, maps, or other submission of documentation produced for or as a result of this project in addition to paper documents.

The CITY and the CONTRACTOR shall comply with the provisions of the Florida Public Records Law.

**If the CONTRACTOR has questions regarding the application of Chapter 119, Florida Statutes, to the CONTRACTOR'S duty to provide public records relating to this contract, contact the custodian of public records, Janice Peters, City Clerk, at 850-215-6694, by email at [jpeters@cityofcallaway.com](mailto:jpeters@cityofcallaway.com), or via mail, at 6601 E. Hwy. 22, Callaway, FL 32404.**

**PUBLIC RECORDS LAW.** CONTRACTOR acknowledges that it is familiar with the provisions of the Public Records Law of the State of Florida.

CONTRACTOR agrees to comply with Chapter 119, Florida Statutes, and specifically per Florida Statute 119.0701, CONTRACTOR agrees to keep and maintain public records that would be required by the City of Callaway in order to perform the services provided for in this Agreement; CONTRACTOR agrees to provide public access to any required public records in the same manner as a public agency; CONTRACTOR agrees to protect exempt or confidential records from disclosure; CONTRACTOR agrees to meet public records retention requirement; and CONTRACTOR agrees that at the end of term of this Agreement, to transfer all public records to the City of Callaway and destroy any duplicate exempt or confidential public records.

All products generated by the CONTRACTOR for the CITY become the property of the CITY. The CITY may require submission of any electronic file version of reports, data, maps or other submission of documentation produced for or as a result of this Bid/Proposal in addition to paper documents.

Further, in accordance with the Public Records Laws of the State of Florida, Section 119.0701, (2013), Contractor must:

- A. Keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service.
- B. Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential and exempt from public records are not disclosed except as authorized by law.
- D. Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public record disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.
- E. If a contractor does not comply with a public records request, the public agency shall enforce the contract provision in accordance with the contract.

All covenants, agreements, representations, and warranties made herein, or otherwise made in writing by any party pursuant hereto shall survive the execution and delivery of this Agreement and the consummation of the transactions contemplated hereby.

### **ARTICLE 13 - INDEPENDENT CONTRACTOR RELATIONSHIP**

The CONTRACTOR is, and shall be, in the performance of all work services and activities under this Agreement, an independent contractor, and not an employee, agent, or servant of the CITY. All persons engaged in any of the work or services performed pursuant to this Agreement shall at all times, and in all places, be subject to the CONTRACTOR'S sole direction, supervision, and control. The CONTRACTOR shall exercise control over the means and manner in which it and its employees perform the work, and in all respects the CONTRACTOR'S relationship and the relationship of its employees to the CITY shall be that of an independent contractor and not as employees or agents of the CITY.

The CONTRACTOR does not have the power or authority to bind the CITY in any promise, agreement, or representation.

The CONTRACTOR shall hold the CITY, its officers, agents, and employees harmless and free from any loss, damage or expense arising out of any occurrence relating to this Agreement or its performance and shall indemnify the CITY, its officers, agents and employees, customers, and successors against any damage or claim of any type arising from the negligent or intentional acts or omission of the CONTRACTOR.

### **ARTICLE 14 - CONTRACT ASSIGNMENT**

The CONTRACTOR shall not sublet, sell, transfer, assign or otherwise dispose of the CONTRACT or any portion thereof, or of his right, title, or interest therein, without written consent of the CITY. The CONTRACTOR shall complete the work contemplated by the terms and conditions of this Agreement in an amount equivalent to at least 50 percent (50%) of the dollar value of work to be performed under this Contract utilizing its own business or corporate entity, so that no single labor, material man, or subcontractor shall be permitted to perform more than 50% of the work contemplated by this Contract.

### **ARTICLE 15 - AMENDMENT**

None of the provisions, terms and conditions contained in this Agreement may be added to, modified, superseded, or otherwise altered, except by a written instrument executed by the parties hereto.

### **ARTICLE 16 - ENFORCEMENT COSTS**

If any legal action or other proceeding is brought for the enforcement of this Agreement, or because of an alleged dispute, breach, default, or misrepresentation in connection with any provision, the successful or prevailing party or parties shall be entitled to recover reasonable attorney's fees, court costs and all expenses even if not taxable as court costs (including, without limitation, all such fees, costs and expenses incident to appeals), incurred in that action or proceeding, in addition to any other relief to which such party or parties may be entitled.

### **ARTICLE 17 - AUTHORITY TO PRACTICE**

The CONTRACTOR hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner.

### **ARTICLE 18 - SEVERABILITY**

If any term or provision on this Agreement, or the application thereof to any person or circumstances shall, to any extent, be held invalid or unenforceable, the remainder of this Agreement, or the application of such terms or provisions to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and every other term and provision of this Agreement shall be deemed valid and enforceable to the extent permitted by law.

**ARTICLE 19 - CITY'S REPRESENTATIVE AND AUTHORITY**

The person designated by the CITY MANAGER shall serve as the CITY'S REPRESENTATIVE and shall decide questions which may arise as to quality and acceptability of materials furnished and work performed and shall interpret the intent of the Contract Documents with reasonable promptness.

The REPRESENTATIVE will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.

The REPRESENTATIVE may assign Project Inspector(s) who shall serve to assist the REPRESENTATIVE in determining if the work performed and the materials used meet the Contract requirements. The Project Inspector shall be authorized to issue Field Orders. The Project Inspector shall be authorized to stop all or any portion of the work if in his opinion the work is not proceeding according to the requirements of the plans and specifications.

**ARTICLE 20 - MODIFICATION**

The CITY reserves the right to make changes in the work, including alterations, reductions therein or additions thereto. Upon receipt by the CONTRACTOR of the CITY'S notification of a contemplated change, the CONTRACTOR shall (1) if requested by CITY, provide an estimate for the increase or decrease in cost due to the contemplated change, (2) notify the CITY of any estimated change in the completion date, and (3) advise the CITY in writing if the contemplated change shall affect the CONTRACTOR'S ability to meet the completion dates or schedules of this Agreement.

If the CITY so instructs in writing, the CONTRACTOR shall suspend work on that portion of the work affected by a contemplated change, pending the CITY'S decision to proceed with the change.

If the CITY elects to make the change, the CITY shall issue a contract amendment or change order and the CONTRACTOR shall not commence work on any such change until such written amendment or change order has been issued and signed by each of the parties.

**ARTICLE 21 - CONTRACT DOCUMENTS**

The other documents which comprise the entire Agreement are attached hereto, made a part hereof and consist of the following:

- A. Advertisement for Bids,
- B. Special Instructions and Conditions,
- C. General Instructions and Conditions,
- D. Minimum Technical Specifications,
- E. Bid Forms
  - Bid Certification Form
  - Drug-Free Workplace Certification
  - Public Entity Crimes Statement,
  - Proprietary/Confidential Information Disclosure Form
- F. Addenda (if any),
- G. Notice of Award
- H. Notice to Proceed
- I. Change Orders (if any),
- Exhibit A Special Federal Provisions
- Exhibit B Current Davis Bacon Act Wage Determination

- Anti-Collusion Clause Form
- Conflict-of-Interest Form

In the event of a conflict between the terms of the above documents and the terms of this Agreement, the terms of this Agreement shall prevail.

There are no contract documents other than those listed above and there are no promises or understandings other than those stated herein.

**ARTICLE 22 - VENUE**

All applicable laws, regulations and ordinances of the State of Florida, Bay County and the City of Callaway will apply to consideration and award of any Bid/Proposal and the performance of the bidder/proposal pursuant thereto and shall be governed by the laws of the State of Florida both as to intention and performance. The venue for any action arising from the award or subsequent performance shall lie exclusively in the Circuit Court of Bay County, Florida, or the United States District Court for the Northern District of Florida, as applicable.

**ARTICLE 23 - NOTICE**

All notices required in this Agreement shall be sent by certified mail, return receipt requested, and if sent to the CITY shall be mailed to:

City of Callaway  
Janice L. Peters, City Clerk  
6601 East Hwy. 22  
Callaway, Florida 32404  
Phone: (850) 215-6694  
Email: jpeters@cityofcallaway.com

With a copy to: Kevin D. Obos, Esq. City Attorney  
Hand Arendall Harrison Sale, LLC  
304 Magnolia Avenue  
Panama City, FL 32401  
Phone: (850) 769-3434  
Fax: (850) 769-6121

and if sent to the CONTRACTOR shall be mailed to:

Contractor: \_\_\_\_\_  
Attn: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Phone: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

Either party may change its address noted above by giving written notice to the other party in accordance with the requirements of the Section.

This Agreement is entered into as of the day and year first written above and is executed in at least two original copies of which one is to be delivered to the CONTRACTOR, and one to the CITY CLERK for filing in the official records.

CITY CLERK

CITY OF CALLAWAY, FLORIDA

Attest: \_\_\_\_\_  
Janice L. Peters, MMC  
City Clerk

By: \_\_\_\_\_  
Keith E. Cook, City Manager

Contractor Witnesses:  
(2 REQUIRED)

Contractor:

Witness: \_\_\_\_\_  
Name  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Business Name  
By: \_\_\_\_\_  
Signature

Witness: \_\_\_\_\_  
Name  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name and Title

APPROVED AS TO FORM FOR THE RELIANCE OF THE  
CITY OF CALLAWAY ONLY:

\_\_\_\_\_  
KEVIN D. OBOS, HAND ARENDALL HARRISON SALE  
CITY ATTORNEY

EXHIBIT A

**SPECIAL FEDERAL PROVISIONS**

**A. GRANT CONDITIONS**

FEMA funding requirements apply to projects funding in part or in whole with funds made available by the Federal government.

**1. Goals for Women and Minorities in Construction**

Department of Labor regulations set forth in 41 CFR 60-4 establish goals and timetables for participation of minorities and women in the construction industry. These regulations apply to all Federally-assisted construction contracts in excess of \$10,000. The recipient must comply with these regulations and must obtain compliance with 41 CFR 60-4 from contractors and subcontractors employed in the completion of the project by including such notices, clauses and provisions in the Solicitations for Offers or Bids as required by 41 CFR 60-4. The goal for participation of women in each trade area must be as follows:

- a. From April 1, 1981, until further notice: 6.9 percent;
- b. All changes to this goal, as published in the Federal Register in accordance with the Office of Federal Contract Compliance Programs regulations at CFR 60- 4.6, or any successor regulations, must hereafter be incorporated by reference into these Special Award Conditions; and,
- c. Goals for minority participation must be as prescribed by Appendix B-Federal Register, Volume 45, No. 194, October 3, 1980, or subsequent publications. The Recipient must include the “Standard Federal Equal Employment Opportunity Construction Contract Specifications” (or cause them to be included if appropriate) in all federally assisted contracts subcontracts. The goals and timetables for minority and female participation may not be less than those published pursuant to 41 CFR 60-6.

**2. Contracting with small and minority businesses, women’s business enterprise, and labor surplus area firms**

The non-federal entity must take all necessary affirmative steps to assure that minority businesses, women’s business enterprises, and labor surplus area firms are used when possible. Affirmative steps must include:

- a. Placing qualified small and minority businesses and women’s business enterprises on solicitation lists;
- b. Assuring that small and minority businesses, and women’s business enterprises are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into smaller tasks quantities to permit maximum participation by small and minority business, and women’s business enterprises;
- d. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women’s business enterprises;
- e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and,



- f. Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in (a) — (e) of this paragraph.

### **3. Davis Bacon Act, as amended (40 U.S.C.3141—3148)**

Davis-Bacon Act-related provisions are applicable for a construction project if it is for the construction of a project that can be defined as a “treatment works” in 33 U.S.C 1292; or for a construction project regardless of whether it is a “treatment works” project if it is receiving federal assistance from another federal agency operating under an authority that requires the enforcement of Davis-Bacon Act-related provisions. When required, all prime construction contracts in excess of \$2,000 awarded by the non-Federal entity must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141—3144, and 3146—3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a wage determination made by the Secretary of Labor. In addition contracts must be required to pay wages not less than once a week.

The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to Treasury. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contracts and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or sub-recipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation or which he or she is otherwise entitled. The non-federal entity must report all suspected or reported violations to Treasury. See Attachment Nos. 1, 2, and 3 of this Section.

### **4. Equal Opportunity Clause**

Pursuant to 41 CFR 60-1.4(b), Federally assisted construction contracts, for construction which is not exempt from the requirements of the equal opportunity clause, 41 CFR Part 60-1—Obligations of Contractors and Subcontractors, [t]he [recipient] hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the federal government or borrowed on the credit of the federal government pursuant to a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any federal program involving such grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

41 CFR §60-1.4 Equal opportunity clause. During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such

direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States. The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract. The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance. The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

#### **5. Revised ADA Standards for Accessible Design for Construction Awards**

The U.S. Department of Justice has issued revised regulations implementing Title II of the ADA (28 C.F.R. Part 35) and Title III of the ADA (28 C.F.R. Part 36). The revised regulations adopted new enforceable accessibility standards called the "2010 ADA Standards for Accessible Design" (2010 Standards). The 2010 Standards are an acceptable alternative to the Uniform Federal Accessibility Standards (UFAS). Treasury deems compliance with the 2010 Standards to be an acceptable means of complying with the Section 504 accessibility requirements for new construction and alteration projects.

#### **6. Historic Artifact Discovery**

If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

EXHIBIT B

DAVIS-BACON ACT

General Decision Number: FL20220158 02/25/2022
Superseded General Decision Number: FL20210158
State: Florida
Construction Type: Highway
County: Bay County in Florida.

HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022, Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

If the contract was awarded on or between January 1, 2015, and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022, Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

Table with 2 columns: Modification Number, Publication Date. Rows: 0 01/07/2022, 1 02/25/2022

\* SUFL2013-019 08/19/2013

Table with 3 columns: Job Classification, Rates, Fringes. Rows include CARPENTER, CEMENT MASON/CONCRETE FINISHER, ELECTRICIAN, HIGHWAY/PARKING LOT STRIPING (Operator, Painter), and IRONWORKER, ORNAMENTAL.

IRONWORKER, REINFORCING.....	\$16.24	0.00
IRONWORKER, STRUCTURAL .....	\$16.42	0.00
LABORER (Traffic Control Specialist) .....	\$11.51**	0.00
LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor .....	\$10.91**	0.00
LABORER: Common or General.....	\$10.16**	0.00
LABORER: Flagger.....	\$10.25**	0.00
LABORER: Grade Checker.....	\$10.83**	0.00
LABORER: Mason Tender - Cement/Concrete .....	\$12.81**	0.00
LABORER: Pipelayer.....	\$11.70**	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$13.13**	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$14.07**	0.00
OPERATOR: Broom/Sweeper .....	\$11.10**	1.89
OPERATOR: Bulldozer.....	\$14.29**	0.00
OPERATOR: Concrete Finishing Machine.....	\$15.44	0.00
OPERATOR: Crane.....	\$21.23	0.00
OPERATOR: Curb Machine .....	\$19.21	0.00
OPERATOR: Distributor.....	\$14.54**	0.00
OPERATOR: Drill.....	\$14.78**	0.00
OPERATOR: Forklift .....	\$12.29**	0.00
OPERATOR: Gradall .....	\$14.71**	0.00
OPERATOR: Grader/Blade.....	\$16.50	0.00
OPERATOR: Loader .....	\$11.66**	0.00
OPERATOR: Mechanic.....	\$15.84	0.00
OPERATOR: Milling Machine .....	\$13.29**	1.92
OPERATOR: Oiler .....	\$16.32	0.00
OPERATOR: Paver (Asphalt, Aggregate, and Concrete) ....	\$12.43**	0.00
OPERATOR: Piledriver.....	\$17.23	0.00
OPERATOR: Post Driver (Guardrail/Fences).....	\$17.02	0.00
OPERATOR: Roller .....	\$10.99**	0.00
OPERATOR: Scraper .....	\$12.01**	0.00
OPERATOR: Screed .....	\$13.13**	0.00
OPERATOR: Trencher.....	\$16.04	0.00
PAINTER: Spray .....	\$19.57	0.00
TRAFFIC SIGNALIZATION: Traffic Signal Installation....	\$15.44	0.00
TRUCK DRIVER: Dump Truck .....	\$10.77**	0.00
TRUCK DRIVER: Flatbed Truck .....	\$14.28**	0.00
TRUCK DRIVER: Lowboy Truck .....	\$13.35**	0.00
TRUCK DRIVER: Slurry Truck .....	\$11.96**	0.00
TRUCK DRIVER: Water Truck.....	\$12.90**	0.00

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four-letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union, which prevailed in the survey for this classification, which in this example would be Plumbers 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
  - \* an existing published wage determination
  - \* a survey underlying a wage determination
  - \* a Wage and Hour Division letter setting forth a position on a wage determination matter
  - \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

- 2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



**CITY OF CALLAWAY**  
**SALES TAX EXEMPT PURCHASING AGREEMENT**

PWTHIS SALES TAX EXEMPT PURCHASING AGREEMENT made as of \_\_\_\_\_, 20\_\_, between \_\_\_\_\_ hereinafter called the “Contractor” and the City of Callaway, Florida, hereinafter called the “Owner.”

RECITALS

1. Contractor and Owner entered a contract dated \_\_\_\_\_, 20\_\_, for Bid No. PW2022-12, and the performance of the work described therein.
2. Contractor and Owner desire to enter into an arrangement whereby certain purchases under the Contract may be made through the Owner as a means of taking advantage of the Owner’s status of being exempt from sales and use taxes.
3. The Owner is exempt from sales and use taxes. As such it is exempt from the payment of sales and use tax on purchases of tangible property, materials, etc., necessary for the performance of work under construction contracts, provided the Owner determines it is to its best interest to do so, and provided the purchase of such properties, materials, et cetera, are handled in the manner hereinafter described.
4. Should the Owner determine that it is in its best interest to provide the opportunity to eliminate the payments of sales tax for tangible property, materials, etc., to be used in the construction of this project, it will notify the Contractor of its intent to do so.

AGREEMENT

1. The parties intend by this Agreement to comply with the procedures and elements described in Florida Department of Revenue Technical Assistance Advisements 01A-003 (January 8, 2001) and 00A-083 (December 21, 2000), and any conflict or ambiguity in this Agreement shall be resolved in favor of meeting the elements necessary to make tax exempt the purchases contemplated by this Agreement.
2. The Owner shall, at its sole discretion, have the option to purchase directly from the supplier or vendor, any supplies, materials or equipment included in the Contractor’s bid for the Contract. The Owner reserves the right to require Contractor to assign to the Owner agreements with suppliers for such goods. Contractor shall, from time to time submit, update and keep current, for consideration by the Owner, a list of all materials, supplies and equipment to be purchased, organized by supplier or vendor. Such list shall include a brief description of the materials, supplies and equipment and the name and address of the supplier or vendor. Suppliers or vendors reasonably anticipated to furnish material, supplies and equipment with an aggregate purchase value of less than \$5,000 need not be listed. Contractor’s initial list is attached, incorporated and marked “Exhibit B.” Goods not required for the performance of the Contract shall not be purchased under this Agreement. The Owner reserves the right to delete or add items from this Agreement when it is in the Owner’s best interest.

3. The Owner will be liable for the payment of all purchases properly made hereunder.
4. Contractor shall notify all suppliers not to make sales to the Contractor under this Agreement.
5. For each purchase approved by the Owner to be made under this Agreement, the Contractor shall furnish the Owner, in writing, information sufficient for the Owner to issue to the supplier its Owner purchase order for the requested item, which shall include as an attachment the Owner's Certificate of Exemption. Suppliers will render statements for materials purchased to the Owner in care of the Contractor. After accepting the goods, reviewing and approving the invoices, Contractor will forward the invoices to the Owner's Engineer for approval, processing and delivery to the Owner for payment. Contractor will keep and furnish to the Owner all such records, summaries, reports of purchase orders and invoices, and reports of the status and use of goods handled under this Agreement, as the Owner may reasonably require.
6. The Contract provides that Contractor will perform the work under the Contract for a total lump sum of \$ \_\_\_\_\_, as may be amended from time to time as provided in the Contract. Said amount, as amended, due Contractor under the Contract, shall be reduced by the sum of all amounts paid by the Owner for materials and equipment purchased under this Agreement, including any shipping, handling, insurance or other, similar charges paid by the Owner, and all of the savings of sales and use tax on the purchase of such items.
7. The Contractor shall submit his proposal for base bid and proposals for each Alternate with the inclusion of all required taxes including applicable sales and use tax, the same is if tax were to be paid in the normal manner. Any sales and use tax savings will be effected during the performance of the Contract.
8. Contractor shall immediately notify all subcontractors and material and equipment dealers of the Owner's intent to possibly reduce the construction cost of the project by the purchase of properties, materials, et cetera, in the manner herein described and the Contractor shall not withhold his consent to the arrangement.
9. Administrative costs incurred by the Contractor with this Agreement, including administering the purchases in the name of the Owner, shall be considered to be included in the base bid proposal for work. No addition shall be added to the Contract amount because of the service provided by the Contractor in the purchase of property, materials, et cetera, in the name of the Owner.
10. All sales and use tax savings on the purchase of property, materials, et cetera, shall be credited to the Owner and the amount of the Contract shall be reduced by the full amount of savings which are affected by the omission of payment of sales and use tax.

11. By virtue of its payment of material and equipment invoices, the Owner further intends to benefit from any discounts offered for timely payment to the extent of one-half of the discount offered, the remaining one-half to accrue to the Contractor as an incentive for the Contractor to process invoices well within the discount period. The Contractor shall pay any late penalties caused by their failure to facilitate the processing of invoices within allotted time.
12. The Contractor, notwithstanding this special purchase arrangement, shall select, describe, order, obtain approvals, submit samples, coordinate, process, prepare shop drawings, pursue, receive, inspect, store, protect, guarantee and otherwise be responsible for all materials, the same as would have been the case if the tax saving procedures were not implemented.
13. The Contractor as bailee shall have the obligation of receiving, inspecting, storing and safekeeping all goods and materials purchased on behalf of the Owner pursuant to this Agreement. Further, the Contractor shall be responsible for the cost of replacing or repairing any goods or materials lost, stolen, damaged or destroyed while in the Contractor's possession or control as bailee, as well as processing all warranty claims for defective goods and materials to the same extent as if such goods had been Contractor-supplied or purchased in the name of the Contractor.
14. Contractor shall maintain separate accounting records for all transactions carried out under the authority granted to it under this Agreement. Such records shall be open to the Owner or its authorized agent during normal business hours of Contractor.
15. As equitable and legal owner of the materials and equipment purchased under this Agreement, the Owner shall bear the risk of loss thereto and shall have the insurable interest therein. Therefore, Contractor shall, at no additional cost to Owner, cause the Owner to be insured or named as an additional insured as its interest may appear against any loss or damage to such goods to the extent of their full insurable value. All such insurance shall be in such form and through such companies as may be reasonably acceptable to Owner and Contractor shall provide Owner certificates thereof requiring each insurer to provide the Owner ten (10) days written notice in advance of cancellation or modification of coverage.
16. Contractor shall be fully responsible for all matters relating to the procurement of materials and equipment covered by this Agreement, including but not limited to, overseeing that the correct materials and the correct amounts are received timely with appropriate warranties; for inspecting and accepting the goods; and for unloading, handling and storing the materials until installed. Contractor shall inspect the materials when they arrive at the job site, verify that all necessary documentation accompanies the delivery and conforms with the Owner's purchase order, and forward the invoice to the Owner for payment if the goods are conforming and acceptable. Contractor shall verify that the materials conform to plans and specifications and determine before installation that such materials are not defective. Contractor shall manage and enforce the warranties on all materials and equipment covered by this Agreement. Contractor shall be responsible to the Owner for its failure to fully and timely perform its obligations under this paragraph, and this Agreement generally.

17. Whenever title to the materials and equipment covered by this Agreement passes to the Owner prior to being incorporated into the work, the Contractor's possession of the goods is a bailment until such time as each of such goods is returned to the Owner by being incorporated into the work.
18. The Owner shall not be liable for delays in the work caused by delays in delivery of or defects in the goods covered by this Agreement, nor shall such delays or defects excuse Contractor in whole or in part from its obligation to timely perform the Contract.
19. In the event Contractor objects to the payment of any invoice for goods covered by this Agreement, Contractor shall at no additional cost to the Owner, provide all assistance, records and testimony necessary or convenient for the Owner to resolve the supplier's claim for payment.
20. This Agreement and the authority granted to Contractor hereunder may be revoked by the Owner at any time upon verbal or written notice to Contractor at its offices located at \_\_\_\_\_, during normal business hours.

IN WITNESS WHEREOF the parties have caused these presents to be executed in their names as of the date and year first above written.

**CONTRACTOR:**

By: \_\_\_\_\_

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**OWNER:**

**CITY OF CALLAWAY**

By: \_\_\_\_\_

Eddie Cook, City Manager

Date: \_\_\_\_\_

Attest: \_\_\_\_\_

Janice L. Peters, City Clerk



## PROPOSAL CHECKLIST

### CITY OF CALLAWAY PAVING IMPROVEMENTS BID NO: PW2022-12

## FORMS/ITEMS TO BE RETURNED WITH YOUR PROPOSAL!

The following forms are to be completed/signed by the Proposer and submitted to the City:

1. Bid/RFP Certification Form(s),
2. One (1) unbound set of bid packet with original notarized signatures, plus three (3) copies
3. Bid Bond or Cashier's Check/Certified Check in the amount of 5% of bid,
4. Proof of Insurance in amounts required by the City with the City listed as Certificate Holder and Additionally Insured (See Special Instructions & Conditions),
5. State of Florida or Bay County Contractor License or Certificate
6. Public Entity Crime Statement, [Complete items 1 and 6; notarized signature required]
7. Drug-Free Workplace Certification Form, [Complete Part I; notarized signature, or sign Part II]
8. List of Subcontractors with names of directors or owners, addresses, telephone numbers, and email address (if applicable),
9. List of references for similar type work with contact information.
10. Proprietary/Confidential Information Form
11. Anti-Collusion Statement
12. Conflict of Interest Disclosure

**Note:** Incomplete Bid/Proposal submissions may not be accepted/considered. Do not modify the forms! Any additional information you desire to present may be included as an attachment.

**Reminder:** Submit requested number of copies! (See Special Instructions and Conditions)

**BID/RFP CERTIFICATION FORM**  
**CITY OF CALLAWAY**  
**PAVING IMPROVEMENTS**  
**BID NO: PW2022-12**

PROPOSERS CERTIFICATION TO THE CITY OF CALLAWAY:

1. The undersigned warrants that: (A) This Proposal is submitted in response to, and is in compliance with, all terms and conditions applicable thereto as set forth in the Advertisement, Instructions to Proposers, General Instructions and Conditions, Special Instructions and Conditions, Bid/RFP Certification Forms, the Minimum Technical Specifications, Addendum, Exhibits, Agreement, Bonds, and Insurance Requirements, each of which has been carefully examined, (B) Proposer or Proposer's representative has made such investigation as is necessary to determine the character and extent of the work and their capability to perform the work, and (C) agrees that if the Proposal is accepted by the City, Proposer will provide the necessary labor, materials, machinery, equipment, tools or apparatus, and perform all the work or services required to complete the assignment and/or contract within the time specified according to the requirements of the City as herein and hereinafter set forth, and (D) he/she is authorized to legally execute binding contracts for and on behalf of the Proposer.
2. Please check one:
  - Proposer declares that the only person, persons, company, or parties interested in this Proposal are named in the Proposal.
  - Proposer, or one or more of Proposer's officers, principals, or any owner of more than 5% in or of proposer, or members of their immediate families: (A) have a financial interest in another company, project, or property that could benefit financially from this proposed project; and/or (B) another individual or business will be compensated by (or on behalf of proposer) if Proposer is selected by the City for the requested services. (Attach a detailed explanation for either.)
3. Bid Bond - If the Proposal is accepted by the City, it will become a binding contract on both parties. If a Bid Bond or Cashier's Check/Certified Check is required, it shall be submitted with the Proposal. If the undersigned shall fail to deliver or perform, or if applicable, execute a Contract as stated herein, then the City may, at its option, determine that the undersigned has abandoned the Award/Contract, and thereupon such Bid and/or Award shall be null and void, and any Cashier's Check/Certified Check or Bond accompanying this Bid shall be forfeited to and become the property of the City, and the full amount of said check, or if a Bid Bond, the full amount of such bond, shall be paid to the City as partial liquidated damages; otherwise, any Bond or Cashier's Check/Certified Check accompanying this Bid shall be returned to the undersigned within 30 calendar days from the date of Award, or if provisions for a Notice to Proceed are included, from the date of the Notice to Proceed.
4. Vendor proposes and agrees to provide all materials, services or equipment required for the City of Callaway **PAVING IMPROVEMENTS BID NO: PW2022-12**, for the Total Sum(s) as follows: (*Totals must match breakdown of costs for each part on next page.*) Dollar Amount (\$\_\_\_\_\_)  
Written Amount: \_\_\_\_\_
5. Number of days from date of the Notice to Proceed that will be required for the final completion of all work as described herein.

\_\_\_\_\_

**(Maximum 90 Calendar Days)**
6. The City reserves the right to accept any or all prices itemized in any combination that best serves the interests of the City. The City further reserves the right to accept or reject any of the components of this Proposal, including alternates.

**BID SCHEDULE**

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

**JOB #1 ENZOR STREET**

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>	<b><u>QTY</u></b>	<b><u>EXTENSION</u></b>
<b>A.</b>	<b>GENERAL ITEMS</b>			
1)	Mobilization/Demobilization	LS	1	\$ _____
2)	Bonds and Insurance	LS	1	\$ _____
3)	Traffic Control (MOT) per FDOT Standards	LS	1	\$ _____
4)	Erosion Control/INPDES Permitting (Includes Silt Fence and Hay Bales)	LS	1	\$ _____
5)	Stakeout and Asbuilts by Registered Florida Surveyor	LS	1	\$ _____
6)	Testing	LS	1	\$ _____
7)	Erosion Control	LS	1	\$ _____
8)	Demolition	LS	1	\$ _____
9)	Allowance for changes/additions by the City and Engineer	LS	1	\$ <u>20,000</u>
	<b>SUBTOTAL A</b>			\$ _____
<b>B.</b>	<b>BID ITEMS</b>			
1)	2" SP 9.5 Asphalt Paving	LS	1	\$ _____
2)	1 ½" SP 9.5 Asphalt Paving with 6" Limerock Base for new driveways	LS	1	\$ _____
3)	1 ½" SP 9.5 Asphalt Paving overlay of existing driveways	LS	1	\$ _____
4)	2" Milling of existing asphalt and haul to City yard within City Limits	LS	1	\$ _____
5)	Striping - Thermoplastic	LS	1	\$ _____
6)	Permanent Signage	LS	1	\$ _____
7)	Sod	LS	1	\$ _____
8)	Manhole Adjustments/Concrete Collars/Pads	LS	1	\$ _____
9)	Water Valve Box Adjustments/Concrete Pads	LS	1	\$ _____
	<b>SUBTOTAL B</b>			\$ _____
	<b>ENZOR STREET TOTAL LUMP SUM A &amp; B</b>			\$ _____

**JOB #2 LOOP ROAD**

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>	<b><u>QTY</u></b>	<b><u>EXTENSION</u></b>
<b>C</b>	<b>GENERAL ITEMS</b>			
1)	Mobilization/Demobilization	LS	1	\$ _____
2)	Bonds and Insurance	LS	1	\$ _____
3)	Traffic Control (MOT) per FDOT Standards	LS	1	\$ _____
4)	Erosion Control/INPDES Permitting (Includes Silt Fence and Hay Bales)	LS	1	\$ _____
5)	Stakeout and As-builts by Registered Florida Surveyor	LS	1	\$ _____
6)	Testing	LS	1	\$ _____
7)	Erosion Control	LS	1	\$ _____
8)	Demolition	LS	1	\$ _____
9)	Allowance for changes/additions by the City and Engineer	LS	1	\$ 30,000
				<b>SUBTOTAL C</b> \$ _____
<b>D</b>	<b>BID ITEMS</b>			
1)	2" SP 9.5 Asphalt Paving and Limerock Base mix as specified with Full Depth Reclamation per design plans	LS	1	\$ _____
2)	1 1/2" SP 9.5 Asphalt Paving with 6" Limerock Base for new driveways	LS	1	\$ _____
3)	1 1/2" SP 9.5 Asphalt Paving overlay of existing driveways	LS	1	\$ _____
4)	Earthwork/Grading	LS	1	\$ _____
5)	Striping - Thermoplastic	LS	1	\$ _____
6)	Signage	LS	1	\$ _____
7)	Sod	LS	1	\$ _____
8)	Seed/Mulch	LS	1	\$ _____
9)	Manhole Adjustments/Concrete Collars/Pads	LS	1	\$ _____
10)	Water Valve Box Adjustments/Concrete Pads	LS	1	\$ _____
				<b>SUBTOTAL D</b> \$ _____
				<b>LOOP ROAD TOTAL LUMP SUM C &amp; D</b> \$ _____



**JOB #3 IMPERIAL DRIVE**

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>	<b><u>QTY</u></b>	<b><u>EXTENSION</u></b>
<b>E</b>	<b>GENERAL ITEMS</b>			
1)	Mobilization/Demobilization	LS	1	\$ _____
2)	Bonds and Insurance	LS	1	\$ _____
3)	Traffic Control (MOT) per FDOT Standards	LS	1	\$ _____
4)	Erosion Control/INPDES Permitting (Includes Silt Fence and Hay Bales)	LS	1	\$ _____
5)	Stakeout and Asbuilts by Registered Florida Surveyor	LS	1	\$ _____
6)	Testing	LS	1	\$ _____
7)	Erosion Control	LS	1	\$ _____
8)	Demolition	LS	1	\$ _____
9)	Allowance for changes/additions by the City and Engineer	LS	1	\$40,000 _____
				<b>SUBTOTAL E \$ _____</b>

<b>F.</b>	<b>BID ITEMS</b>			
1)	2" SP 9.5 Asphalt Paving and Limerock Base mix as specified with Full Depth Reclamation per design plans	LS	1	\$ _____
2)	1 1/2" SP 9.5 Asphalt Paving with 6" Limerock Base for new driveways	LS	1	\$ _____
3)	1 1/2" SP 9.5 Asphalt Paving overlay of existing driveways	LS	1	\$ _____
4)	Earthwork/Grading	LS	1	\$ _____
5)	Import Select Fill			\$ _____
6)	Striping - Thermoplastic	LS	1	\$ _____
7)	Signage	LS	1	\$ _____
8)	Sod	LS	1	\$ _____
9)	Seed/Mulch	LS	1	\$ _____
10)	Manhole Adjustments/Concrete Collars/Pads	LS	1	\$ _____
11)	Water Valve Box Adjustments/Concrete Pads	LS	1	\$ _____
12)	1" Water Service Assembly	LS	1	\$ _____
13)	6" PVC Water Main	LS	1	\$ _____
14)	6" DI MJ 22.5° Bends	LS	1	\$ _____
15)	6" SS Tapping Sleeve and Valve	LS	1	\$ _____

16)	Fire Hydrant Assemblies	LS	1	\$ _____
17)	6'' MJ Gate Valves	LS	1	\$ _____
18)	6'' MJ Tees	LS	1	\$ _____
19)	Gravity Sewer Service Laterals	LS	1	\$ _____
20)	8'' Gravity Pipe (4' to 6' Deep)	LS	1	\$ _____
21)	Existing Gravity Manhole Connection	LS	1	\$ _____
22)	Manhole 4'-6' with HDPE Liner	LS	1	\$ _____
23)	Line Existing Manholes with Triplex or Spectra Shield Liner System	LS	1	\$ _____

**SUBTOTAL F** \$ \_\_\_\_\_

**IMPERIAL DRIVE TOTAL LUMP SUM E & F** \$ \_\_\_\_\_

**SUBTOTAL OF LUMP SUM BIDS**

**JOB #1 - ENZOR STREET    A + B    \$ \_\_\_\_\_**

**JOB #2 - LOOP ROAD        C + D    \$ \_\_\_\_\_**

**JOB #3 - IMPERIAL DRIVE   E + F    \$ \_\_\_\_\_**

**TOTAL BID AMOUNT        \$ \_\_\_\_\_**

\_\_\_\_\_ **DOLLARS & \_\_\_\_\_ CENTS.**

**TOTAL BID Written amount**

The pay item quantities shown on sheet D5 of the plan sheets are provided for reference only and are estimates. If quantities conflict with bidders takeoff, bidder shall include the costs to cover the conflict in the lump sum bid above.

Jobs are to be done in numbered order.

**FEES FOR ADDITIVE WORK:  
(If Applicable)**

The undersigned agrees that he will, when so instructed by the Engineer, perform additional work (for which the Unit Prices stated above are not applicable) at the following rates:

1. For extra work performed by your Subcontractors, the net amount of the Subcontractor's charge plus a percentage fee of 10%, which fee shall include all charges for supervision, overhead and profit, bonds, taxes and insurance.
2. For work performed by the Contractor's own forces, a reasonable estimate of the net cost of the work (less all discounts) plus a fee of 18% which fee shall include all charges for supervision, field office, general expenses, overhead and profit. Net cost, to which the percentage fee shall be applied, is understood to include state sales taxes, bonds, and delivery expenses of materials: cost of labor is to include all union fringe benefits, applicable insurance and payroll taxes.

**Provide the subcontractor(s) or vendor(s) information requested below.** Failure to submit this information shall result in a bid rejection and non-compliance with the bid requirements. If any category will be self-performed, please indicate.

All changes after bid award must be approved by the City.

Respectfully submitted:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
License Number

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

\_\_\_\_\_  
Address

7. BIDDER HEREBY ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDUMS: \_\_\_\_\_

Name of Bidder: \_\_\_\_\_

Business structure: ( ) Corporation, ( ) Partnership, ( ) Individual, ( ) Other: \_\_\_\_\_

If a Partnership: \_\_\_\_\_

Name(s) of Partner(s): \_\_\_\_\_

If a Corporation: \_\_\_\_\_

Incorporated in State of: \_\_\_\_\_ Date of Incorporation: \_\_\_\_\_

Business Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone Number: ( ) \_\_\_\_\_ Fax ( ) \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Submitted By: \_\_\_\_\_  
(Print)

Affix Corporate Seal  
(If Corporation)

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

ATTEST: \_\_\_\_\_

Secretary

By: \_\_\_\_\_  
Print Name

State of Florida  
County of \_\_\_\_\_

The foregoing instrument was acknowledged before  
me by means of  Physical Presence or  
 Online Notarization

The foregoing instrument was acknowledged before me this \_\_\_ day of \_\_\_\_\_, 20\_\_, by \_\_\_\_\_,  
who is personally known to me or who presented \_\_\_\_\_ as identification, and who (did) (did not) take  
an oath.

\_\_\_\_\_  
[Signature of Notary Public]

\_\_\_\_\_  
[Printed, typed or stamped name of Notary Public]

**NOTE: BIDS MAY BE REJECTED IF ALL DOCUMENTS ARE NOT COMPLETE AND EXECUTED, AND  
THE NUMBER OF COPIES SPECIFIED/REQUESTED OF EACH ARE NOT SUBMITTED WITH THE  
BID.**

**SWORN STATEMENT PURSUANT TO SECTION 287.133(3)(a),  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

**THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted to City of Callaway, Florida, a Municipal Corporation, 6601 East Hwy. 22, Callaway, Florida 32404 by \_\_\_\_\_  
[print individual's name and title]  
for \_\_\_\_\_ whose business  
[print name of entity submitting sworn statement]  
address is \_\_\_\_\_  
\_\_\_\_\_ and (if applicable) it's Federal Identification Number  
(FEIN) is \_\_\_\_\_ (If the entity has no FEIN, include the Social Security  
Number of the individual signing this sworn statement \_\_\_\_\_)
2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), **Florida Statutes**, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or any agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), **Florida Statutes**, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), **Florida Statutes**, means:
  - a. A predecessor or successor of a person convicted of a public entity crime; or
  - b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
5. I understand that a "person" as defined in Paragraph 287.133(1)(e), **Florida Statutes**, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **[Indicate which statement applies.]**

\_\_\_\_\_ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July, 1 1989.

\_\_\_\_\_ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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.

\_\_\_\_\_ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the 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. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. **[attach a copy of the final order]**

**I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.**

\_\_\_\_\_  
**[signature]**

PW2022-12  
\_\_\_\_\_  
**[Reference: RFP Number]**

Sworn to and subscribed before me this \_\_\_ day of \_\_\_\_\_, 20\_\_ . Personally known \_\_\_\_\_ or produced identification \_\_\_\_\_.

**[Type of identification]**

The foregoing instrument was acknowledged before me by means of  Physical Presence

or

Online Notarization

Notary Public - State of \_\_\_\_\_

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
**[Signature of Notary]**

\_\_\_\_\_  
**[Printed, typed or stamped commissioned name of Notary Public]**

**CITY OF CALLAWAY**  
**DRUG-FREE WORKPLACE CERTIFICATION**

**Please complete Part I or Part II as applicable.**

In order to be given preference in the award process for having implemented a drug-free workplace program prior to the Bid/Proposal submission date, the Bidder/Proposer is requested to certify that as part of their drug-free workplace program, they have:

1. Published a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specified the actions that will be taken against employees for violations of such prohibition.
2. Informed employees about the dangers of drug abuse in the workplace, the business policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Given each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Subsection 1.
4. In the statement specified in Subsection 1, notified the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Imposed a sanction on, or required the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is so convicted.
6. Made a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

**Part I - PROGRAM IMPLEMENTED**

I certify that I/we have established a drug-free workplace program meeting the foregoing minimum requirements.

\_\_\_\_\_  
[Printed, typed name]

\_\_\_\_\_  
[Signature]

State of Florida

County of \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_, by \_\_\_\_\_, who appeared by means of  Physical Presence or  Online Notarization, is personally known to me or who presented \_\_\_\_\_ as identification, and who (did) (did not) take an oath.

\_\_\_\_\_  
[Signature of Notary Public]

\_\_\_\_\_  
[Printed, typed or stamped name of Notary Public]

\_\_\_\_\_  
[Commission Number of Notary Public]

**Part II - PROGRAM NOT IMPLEMENTED**

A program meeting the above stated requirements has not been established or has not been fully implemented prior to Bid/Proposal closing date, and therefore I/we are not eligible for certification as a drug-free workplace.

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Date]

**PROPRIETARY/CONFIDENTIAL INFORMATION  
CITY OF CALLAWAY  
PAVING IMPROVEMENTS  
BID NO. PW2022-12**

**Name of Firm of Bidder/Vendor:** \_\_\_\_\_

Trade secrets or proprietary information submitted by a Vendor shall not be subject to public disclosure under the Freedom of Information Act; however, the Vendor must invoke such protections provided by state law, in writing, either before or at the time the data or other material is submitted. The written notice must specifically identify the data or materials to be protected, including the section of the proposal in which it is contained, as well as the page number(s), and state the reasons why protection is necessary. The proprietary or trade secret material submitted must be identified by some distinct method such as highlighting or underlining and must indicate only the specific words, figures, or paragraphs that constitute a trade secret or proprietary information. In addition, a summary of proprietary information provided shall be submitted on this form. The designation of an entire proposal document, line item prices, and/or total proposal prices as proprietary or trade secrets is not acceptable. If, after being given reasonable time, the Vendor refuses to withdraw such a classification designation, the proposal will be rejected.

SECTION/TITLE	PAGE NUMBER(S)	REASON(S) FOR WITHHOLDING FROM DISCLOSURE

**Check this box if there are none.**  
*This document must be completed and returned with proposal.*



**CITY OF CALLAWAY  
PAVING IMPROVEMENTS  
BID NO. PW2022-12**

**CONFLICT-OF-INTEREST FORM**

The award of a bid or acceptance of proposal is subject to Chapter 112, Florida Statutes\*. All Bidders/Proposers must disclose with their Bid/Proposal the name of any officer, director, or agent who is a city official or employee, or a member of an official's or employee's immediate family. Further, Bidders/Proposers must disclose the name of any city official or employee, or a member of an official's or employee's immediate family, who owns directly or indirectly an interest of ten percent (10%) or more in the bidder's/proposer's firm or related business.

**CERTIFICATION**

- I declare that I do not have any matters which might give rise to a real or perceived conflict of interest.
  
- I hereby disclose that the following named person(s) is an Officer, Director, or Agent who is also a City Official, Employee, or member of a City Official or Employee's immediate family and could pose a possible conflict of interest:

Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

By signing below, I affirm that I have read and understood the principles of conflict of interest disclosure and I have made full disclosure of all matters that may put me in a conflict of interest situation in performing my role.

I acknowledge that non-disclosure could result in action being taken to terminate my work with the City of Callaway and potentially bar me from submissions of Bids/RFPs in the future.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Company

Project/Bid/RFP Number: \_\_\_\_\_ Date: \_\_\_\_\_

\*Florida Statutes Chapter 112.311(5) It is hereby declared to be the policy of the state that no officer or employee of a state agency or of a county, city, or other political subdivision of the state, and no member of the Legislature or legislative employee, shall have any interest, financial or otherwise, direct or indirect; engage in any business transaction or professional activity; or incur any obligation of any nature which is in substantial conflict with the proper discharge of his or her duties in the public interest.

**CITY OF CALLAWAY  
PAVING IMPROVEMENTS  
BID NO. PW2022-12**

**ANTI-COLLUSION STATEMENT**

I hereby attest that I am the person responsible within my company for the final decision as to the price(s) and amount of this Bid or, if not, that I have written authorization, enclosed herewith, from that person to make the statements set out below on his or her behalf and on behalf of my company.

I further attest that:

- A. The price(s) and amount of this Bid have been arrived at independently, without consultation, communication, or agreement for the purpose or with the effect of restricting competition with any other company or person who is a Bidder or potential Prime Bidder.
- B. Neither the price(s) nor the amount of this Bid have been disclosed to any other company or person who is a Bidder or potential Prime Bidder on this Project and will not be so disclosed prior to Bid Opening.
- C. Neither the prices nor the amount of the Bid of any other company or person who is a Bidder or potential Prime Bidder on this Project have been disclosed to me or my company.
- D. No attempt has been made to solicit, cause, or induce any company or person who is a Bidder or potential Prime Bidder to refrain from Bidding on this project, or to submit a Bid higher than the Bid of this company, or any intentionally high or noncompetitive Bid or other form of complementary Bid.
- E. No agreement has been promised or solicited for any other company or person who is a Bidder or potential Prime Bidder on this Project to submit an intentionally high, noncompetitive, or other form of complementary Bid on this project.
- F. The Bid of my company is made in good faith and not pursuant to any consultation, communication, agreement, or discussion with, or inducement or solicitation by or from any company or person to submit any intentionally high, noncompetitive, or other form of complementary Bid.
- G. My company has not offered or entered into a subcontract or agreement regarding the purchase or sale of materials or services from any company or person, or offered, promised or paid cash or anything of value to any company or person, whether in connection with this or any other project, in consideration for an agreement or promise by any company or person to refrain from bidding or to submit any intentionally high, noncompetitive or other form of complementary bid or agreeing or promising to do so on this project.

- H. My company has not accepted or been promised any subcontract or agreement regarding the sale of materials or services to any company or person and has not been promised or paid cash or anything of value by any company or person, whether in connection with this or any other Project, in consideration for my company's submitting any intentionally high, noncompetitive, or other form of complementary Bid, or agreeing or promising to do so, on this Project.
- I. I have made a diligent inquiry of all members, officers, employees, and agents of my company with responsibilities relating to the preparation, approval, or submission of my company's Bid on this Project and have been advised by each of them that he or she has not participated in any communication, consultation, discussion, agreement, collusion, or other conduct inconsistent with any of the statements and representations made in this affidavit.
- J. I understand and my company understands that any misstatement in this affidavit is and shall be treated as a fraudulent concealment of the true facts relating to submission of Bids for this Contract.

I DECLARE UNDER PENALTY OF PERJURY IN THE SECOND DEGREE, AND ANY OTHER APPLICABLE STATE OR FEDERAL LAWS THAT THE STATEMENTS MADE ON THIS DOCUMENT ARE TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number

**CITY OF CALLAWAY  
PAVING IMPROVEMENTS  
BID NO: PW2022-12**

**SCOPE OF WORK**

The project scope includes roadway, utility, and storm water management improvements on three different streets. The three road locations are as follows:

**JOB #1 ENZOR STREET**

The Enzor Street improvements include:

- approximately 2,625 linear feet of new roadway with asphalt rehabilitation and paving
- residential driveways
- and new pavement markings from Tyndall Parkway east to Kimbrel Avenue.

**JOB #2 LOOP ROAD - CALLAWAY SPORTS COMPLEX**

The Callaway Sports Complex Loop Road improvements include:

- 640 linear feet of a new asphalt roadway
- 98 new grassed parking spaces
- a new storm water collection pond
- 175 linear feet of 18” ADS HP pipe
- and one new outfall structure.

**JOB #3 IMPERIAL DRIVE**

Imperial Drive improvements include:

- 500 linear feet of new asphalt roadway
- 550 linear feet of new 6” water main
- 6 new water service connections
- 2 new fire hydrants
- 140 linear feet of new 8” gravity sewer
- one new sewer manhole
- and a small section of concrete ditch paving for storm water runoff.

NOTE: JOBS ARE TO BE DONE IN NUMBERED ORDER REFLECTED ABOVE

**TABLE OF CONTENTS**

<b><u>TECHNICAL SPECIFICATIONS</u></b>		<b><u>PAGES</u></b>
02110	Site Clearing .....	3
02200	Earthwork .....	6
02211	Sodding .....	2
02222	Trenching, Backfilling and Compaction .....	9
02513	Asphalt Concrete Paving .....	3
02950	Site Restoration.....	5
03310	Concrete Work.....	15

**APPENDICES**

A.	Geotechnical Reports	
1)	Enzor Street .....	10
2)	Imperial Drive.....	11
3)	Loop Road - Callaway Sports Complex .....	11

**SECTION 02110**  
**SITE CLEARING**

**PART 1 - GENERAL**

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions apply to work of this Section.

DESCRIPTION OF WORK:

Extent of site clearing is shown on drawings.

Site clearing work includes, but is not limited to:

Protection of existing trees.

Removal of trees and other vegetation.

Topsoil stripping.

Clearing and grubbing.

Removing above-grade improvements.

Removing below-grade improvements.

JOB CONDITIONS:

Traffic: Conduct site clearing operations to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction.

Protection of Existing Improvements: Provide protections necessary to prevent damage to existing improvements indicated to remain in place.

Protect improvements on adjoining properties and on Owner's property.

Restore damaged improvements to their original condition, as acceptable to parties having jurisdiction.

Protection of Existing Trees and Vegetation: Protect existing trees and other vegetation indicated to remain in place, against unnecessary cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line.

Provide temporary guards to protect trees and vegetation to be left standing.

Water trees and other vegetation to remain within limits of the contract work as required to maintain their health during course of construction operations.

Provide protection for roots over 1-1/2" diameter cut during construction operations. Coat cut faces with an emulsified asphalt, or other acceptable coating, formulated for use on damaged plant tissues. Temporarily cover exposed roots with wet burlap to prevent roots from drying out, cover with earth as soon as possible.

Salvable Improvements: Carefully remove items indicated to be salvaged, and store on Owner's premises where indicated or directed.

**PART 2 - PRODUCTS Not applicable to work of this section.**

**PART 3 - EXECUTION**

**SITE CLEARING:**

General: Remove trees, shrubs, grass and other vegetation, improvements, or obstructions interfering with installation of new construction. Remove such items elsewhere on the site or premises as specifically indicated. Removal includes digging out stumps and roots.

Carefully and cleanly cut roots and branches of trees indicated to be left standing, where such roots and branches obstruct new construction.

Topsoil: Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4". Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 2" in diameter, and without weeds, roots, and other objectionable material.

Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material.

Remove heavy growths of grass from areas before stripping.

Where trees are indicated to be left standing, stop topsoil stripping a sufficient distance to prevent damage to main root system.

Dispose of unsuitable or excess topsoil same as waste material, herein specified.

Clearing and Grubbing: Clear site of trees, shrubs and other vegetation, except for those indicated to be left standing.

Completely remove stumps, roots, and other debris protruding through the ground surface.

Use only hand methods for grubbing inside drip line of trees indicated to be left standing.

Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.



**CITY OF CALLAWAY**  
**ENZOR STREET, IMPERIAL DRIVE, AND LOOP ROAD PAVING IMPROVEMENTS**

**PE FILE 26038**

Place fill material in horizontal layers not exceed 6" loose depth, and thoroughly compact to a density equal to adjacent original ground.

Removal of Improvements: Remove existing above-grade and below-grade improvements necessary to permit construction, and other work as indicated.

Abandonment of removal of certain underground pipe or conduits may be shown on mechanical or electrical drawings and is included under work of those sections. Removal of abandoned underground piping or conduit interfering with construction is included under this section.

**DISPOSAL OF WASTE MATERIALS:**

Burning on Owner's Property: Burning will be permitted only at designated areas and times directed by Owner. Attend burning materials until fires have burned out or have been extinguished. Contractor will be required to secure necessary burn permit from governing authorities.

Removal from Owner's Property: Remove waste materials and unsuitable and excess topsoil from Owner's property and dispose of offsite in legal manner.

END OF SECTION 02110

**SECTION 02200**  
**EARTHWORK**

**PART 1 – GENERAL**

**RELATED DOCUMENTS:**

Drawings and general provisions of Contract, including General and Supplementary Conditions apply to work of this section.

**DESCRIPTION OF WORK:**

Extent of earthwork is indicated on drawings. This work consists of grading in order to achieve finished elevations shown on the construction plans.

Preparation of subgrade for building slabs, walks, and pavements is included as part of this work.

All graded surfaces shall be smooth and uniform, without abrupt changes in slope or grade. Areas to be covered with paving shall be fine graded to the required elevations and slopes. Finished surfaces in all other areas may vary up to 0.1 feet from the required elevations.

Excavation for Mechanical/Electrical Work: Excavation and backfill required in conjunction with underground mechanical and electrical utilities and buried mechanical and electrical appurtenances is included as work of this section.

Definition: "Excavation" consists of removal of material encountered to subgrade elevations indicated and subsequent disposal of materials removed.

**QUALITY ASSURANCE:**

Codes and Standards: Perform excavation work in compliance with applicable requirements of governing authorities having jurisdiction. All material and construction methods shall be in accordance with Section 120 of the Standard Specifications for Roads and Bridges, State of Florida, Department of Transportation, latest edition.

Testing and Inspection Service: Employ, at Contractor's expense, testing laboratory to perform soil testing and inspection service for quality control testing during earthwork operations.

**SUBMITTALS:**

Test Reports-Excavating: Submit following reports directly to Engineer from the testing services, with copy to the Contractor.

Test reports on borrow material.

Verification of each footing subgrade.

Field density test reports.

One optimum moisture-maximum density curve for each type of soil encountered.

**CITY OF CALLAWAY**  
**ENZOR STREET, IMPERIAL DRIVE, AND LOOP ROAD PAVING IMPROVEMENTS**

**PE FILE 26038**

Report of actual unconfined compressive strength and/or results of bearing tests of each strata tested.

**PART 2 - PRODUCTS**

Soils used as fill shall be clean sands, less than 5 percent passing the number 200 sieve.

**CUT:**

Where required, the site shall be excavated to the grades course. Excavated material that is suitable shall be used in the fill sections of the site. No suitable material shall be removed from the site. Any excess suitable material shall be placed at the direction of the Engineer.

**FILL:**

In order to ensure proper bond and prevent slipping between the original ground and fill, the surface of the original ground shall be scarified to a depth of at least three inches. Each layer of fill material shall be compacted until the required density is achieved.

**PART 3 - EXECUTION**

**GENERAL:**

The site shall be rolled with a minimum of six overlapping passes of a 4 ton vibratory roller. The existing soil across the site should be compacted. The site can be filled by placing and compacting 1' - 2' lifts with the vibratory roller. Successful compaction of each lift should be attained prior to placement of successive lifts.

**COMPACTION OF SUBGRADE AND FILL:**

Compaction requirements shall be as shown on the plans, with a soil at or near optimum moisture content. All subgrade fill material and the top 12 inches in cut areas shall be compacted. All roots and other materials that would diminish the efficiency of the compaction operation shall be removed prior to compacting. Field tests shall be made by a soils testing laboratory under the direction of the Engineer.

**TRENCH EXCAVATION:**

The Contractor shall perform all excavation of every description and whatever substances encountered, to the dimensions and depths shown on the drawings, or as directed. All excavated materials not required for fill or backfill shall be removed or wasted as directed. All excavations shall be made by open cut unless otherwise shown on the plans.

Trenches shall be kept as nearly vertical as possible, and if required, shall be properly sheeted and braced. Where in the opinion of the Engineer, damage is liable to result from withdrawing sheeting, the sheeting shall be left in place.

Pipe trenches shall be excavated to a depth that will ensure a minimum of thirty inches of cover unless otherwise shown on the drawings or directed. Trenches shall be excavated to provide a clearance on each side of the pipe of not less than six inches shall be excavated accurately to grade and shall provide uniform support for pipes along their entire length. Excavation shall be made for bells of all pipes.

**CITY OF CALLAWAY**  
**ENZOR STREET, IMPERIAL DRIVE, AND LOOP ROAD PAVING IMPROVEMENTS**

**PE FILE 26038**

Except in rocks, water bearing earth, or where a granular or concrete base is to be used, mechanical excavation of trenches shall be stopped above the final invert grade elevation so that the pipe may be laid on a firm undisturbed native earth bed. If over digging occurs, all loosened earth must be removed, and the trench bottom brought back to grade with granular material well compacted to the satisfaction of the Engineer.

If the trench width at the top of the pipe becomes greater than a distance of three times the outside diameter of the pipe, for any reason other than by order of the Engineer, the Contractor shall install at his own expense such concrete cradling, pipe easement or other bedding as may be required by the Engineer to support the load of backfill.

If there is not a good natural foundation it will be the Contractor's responsibility to stop construction and notify the Engineer of the condition encountered. The Engineer will then instruct the Contractor as to the method to be used to correct the conditions, and the Contractor will receive extra compensation amount negotiated with the Owner.

**OTHER EXCAVATIONS:**

Excavation for manholes, catch basins, and other accessories shall be sufficient to leave at least 12 inches in the clear between their outer surfaces and the embankment of timber that may be used to protect them. Backfill of earth around manholes shall be filled with thoroughly compacted sand or gravel at the expense of the Contractor.

Excavation for structures shall be made to the dimensions and elevation indicated on the drawings. Where the excavation is made below the indicated elevations, the excavation shall be restored to the proper elevation with concrete fill, or the heights of the walls and footings shall be increased. Such fill or increased height of walls and footings shall be furnished by the Contractor without extra compensations, except where additional excavation is ordered to obtain proper bearing in which case the contract price will be adjusted to cover such additional work.

**SHORING AND DRAINAGE:**

The Contractor shall do all shoring required to perform and protect the excavation and as necessary for the safety of the employees.

The Contractor shall prevent the accumulation of water in the excavated areas and shall remove by pumping or other means any water which accumulates in the excavation. The Contractor shall prevent the accumulation of water in both structural and trench excavations and shall remove by well point system or by other means water which accumulates in the excavation. The Contractor shall provide, install and operate a suitable and satisfactory dewatering system. The Contractor shall include the cost of this pumping equipment and work in the price bid for the work.

**BACKFILLING:**

Trenches shall be backfilled with excavated materials, free from large clods or stones. Backfill shall be deposited in layers not to exceed 6 inches (6") in thickness, moistened, and compacted. Selected materials shall be used for all backfill. Trash shall not be allowed to accumulate in spaces to be backfilled, and this space shall be well cleared before backfill is placed.

**CITY OF CALLAWAY**  
**ENZOR STREET, IMPERIAL DRIVE, AND LOOP ROAD PAVING IMPROVEMENTS**

**PE FILE 26038**

No fill material shall be placed, spread, or rolled while the ground or fill is frozen or thawing or during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until the moisture content and density of the fill are as previously specified.

**GRADING:**

General: Uniformly grade areas within limits of grading under this section, including adjacent transition areas. Smooth finish surface within specified tolerances, compact with uniform levels or slopes between points where elevations are indicated, or between such points and existing grades.

Grading Outside Building Lines: Grade areas adjacent to building lines to drain away from structures and to prevent ponding.

Finish surfaces free from irregular surface changes, and as follows:

Lawn or Unpaved Areas: Finish areas to receive topsoil to within not more than 0.10' above or below required subgrade elevations.

Walks: Shape surface of areas under pavement to line, grade and cross-section, with finish surface not more than 1/2" above or below required subgrade elevation.

Compaction: After grading, compact subgrade surfaces to the depth and indicated percentage of maximum or relative density for each area classification.

**PAVEMENT BASE COURSE:**

General: Base course consists of placing base material, in layers of specified thickness, over subgrade surface to support a pavement course.

Grade Control: During construction, maintain lines and grades including crown and cross-slope of base course.

Shoulders: Place shoulders along edges of base course to prevent lateral movement. Construct shoulders of acceptable soil materials, placed in such quantity to compact to thickness of each base course layer. Compact and roll at least 12" width of shoulder simultaneously with compacting and rolling of each layer of base course.

Placing: Place base course material on prepared subgrade in layers of uniform thickness, conforming to indicated cross-section and thickness. Maintain optimum moisture content for compacting base material during placement operations.

When a compacted base course is shown to be 6" thick or less, place material in a single layer. When shown to be more than 6" thick, place material in equal layers, except no single layer more than 6" or less than 3" in thickness when compacted.

**FIELD QUALITY CONTROL:**

Quality Control Testing During Construction: Allow testing service to inspect and test and engineer to approve subgrades and fill layers before further construction work is performed.

Perform field density tests in accordance with ASTM D 1556 (sand cone method) or ASTM D 2167 (rubber balloon method) or ASTM D 2922 (nuclear method), as applicable.

If in opinion of the Engineer, based on testing service reports and inspection, subgrade or fills which have been placed are below specified density, provide additional compaction and testing at no additional expense.

**MAINTENANCE:**

Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.

Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, re-shape, and compact to required density prior to further construction.

Settling: Where settling is measurable or observable at excavated areas during general project warranty period, remove surface (pavement, lawn or other finish), add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work and eliminate evidence of restoration to greatest extent possible.

**EXISTING UTILITY LINES:**

Attention is called to the fact that the Contractor is responsible for contacting all utility companies to obtain locations of all existing utilities or obstructions which he may encounter during construction. After location of utilities by the appropriate utility company, it is the Contractor's liability to protect all such utility lines, including service lines and appurtenances, and to replace at his own expense any which may be damaged by the Contractor's equipment or forces during construction of the project.

**BARRICADES, GUARDS, AND SAFETY PROVISIONS:**

To protect persons from injury and to avoid property damage, adequate barricades, construction signs, torches, red lanterns, and guards as required shall be placed and maintained during the progress of the construction work. Rules and regulations of the local authorities with respect to safety provisions shall be observed.

**TRAFFIC CONTROLS:**

Excavations for pipe laying operation shall be conducted in a manner to cause the least interruption to traffic. When traffic must cross open trenches, the Contractor shall provide suitable bridges.

**FLOW DRAIN AND SEWER MAINTENANCE:**

**CITY OF CALLAWAY**  
**ENZOR STREET, IMPERIAL DRIVE, AND LOOP ROAD PAVING IMPROVEMENTS**

**PE FILE 26038**

Adequate provision shall be made for the flow of sewers, drains, and water courses encountered during construction, and the structures which may have been disturbed shall be satisfactorily restored by the Contractor.

**PROPERTY PROTECTION:**

Trees, fences, poles, and all other property shall be protected unless their removal is authorized; and any property damaged shall be satisfactorily restored by the Contractor at the Contractor's expense.

**CLEAN-UP:**

Before final inspection and acceptance, the Contractor shall clean ditches, shape shoulders and restore all disturbed areas, including street crossings, grass plots, regrassing if necessary, to as good a condition as existed before work started. All trenches shall be leveled, and loose material removed from pavement, gutters, and sidewalks, employing hand labor if necessary.

**EROSION CONTROL:**

The Contractor shall be responsible for the prevention of erosion from the site and for maintaining graded surfaces for the duration of the project.

The Contractor shall take whatever steps necessary to prevent erosion and will be responsible for any damages which might occur to down-land properties as a result of increased runoff from the site during sitework construction.

END SECTION 02200

**SECTION 02211  
SODDING**

**PART 1 - GENERAL**

1.01 WORK INCLUDED

- A. Sod Installation

1.02 REFERENCES

- A. ASPA - American Sod Producers Association - Guideline Specifications to Sodding.
- B. FS O-F-241 - Fertilizers, Mixed, Commercial.

1.03 DEFINITIONS

- A. Weeds: Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Hill, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver sod on pallets. Protect exposed roots from dehydration.
- B. Do not deliver more sod that can be laid within 24 hours.

**PART 2 - PRODUCTS**

2.01 ACCEPTABLE SOD GROWERS

- A. Nurseries and Sod Growers in the surrounding area who have a five-year record are acceptable.

2.02 MATERIALS

- A. Sod:
  - 1. ASPA approved, field grown grade; cultivated grass sod; for low maintenance and traffic durability, with strong fibrous root system, free of stone, burned or bare spots; containing no more than 5 weeds per 1000 square feet.
- B. Approved Sod:
  - 1. Tiff Tuff, Bermuda (Cynodon Dactylon) as supplied by McCall Sod Farm or approved equal.

2.03 HARVESTING SOD

- A. Machine cut sod and load on pallets in accordance with ASPA guidelines.



- B. Cut sod in area not exceeding one square yard, with minimum 1/2 inch and maximum one inch topsoil base.

### **PART 3 - EXECUTION**

#### **3.01 INSPECTION**

- A. Verify that prepared soil base is ready to receive the work of this Section.
- B. Beginning of installation means acceptance of existing site conditions.

#### **3.02 PREPARATION OF SUBSOIL**

- A. Prepare subsoil to eliminate uneven areas and low spots. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- B. Remove foreign materials and undesirable plants and their roots. Do not bury foreign material beneath areas to be sodded. Remove contaminated subsoil.

#### **3.03 LAYING SOD**

- A. Moisten prepared surface immediately prior to laying sod.
- B. Lay sod immediately on delivery to site and within 24 hours after harvesting to prevent deterioration.
- C. Lay sod tight with no open joints visible, and no overlapping; stagger end joints 12-inches overlapping; minimum. Do not stretch or overlap sod pieces.
- D. Lay smooth. Align with adjoining grass areas. Place top elevation of sod 1/2 inch below adjoining paving or curbs.
- E. On slopes 6 inches per foot and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at maximum 2 feet on center. Drive pegs flush with soil portion of sod.
- F. Prior to placing sod, on slopes exceeding 8 inches per foot or where indicated, place wire mesh over topsoil. Securely anchor in place with wood pegs sunk firmly into the ground.
- G. Water sodded areas immediately after installation. Saturate sod to 4 inches of soil.
- H. After sod and soil have dried, roll sodded areas to ensure good bond between sod and soil and to remove minor depressions and irregularities.
- I. Sod shall be laid in all ditch areas and slopes that are equal to or steeper than 1 vertical to 3 horizontal or in areas determined by the Engineer to "erosion problem" areas. Sod shall be pinned down for stabilization in these areas.

END OF SECTION

**SECTION 02222  
TRENCHING, BACKFILLING AND COMPACTING**

**PART 1 - GENERAL**

1.01 DESCRIPTION OF WORK

- A. The extent of trenching, backfilling, and compacting is shown on the drawings.
- B. This section includes furnishing equipment, labor and materials, and performing all operations necessary and incidental to perform the required work.

**PART 2 – PRODUCTS NOT USED**

**PART 3 - EXECUTION**

3.01 CLEARING THE SITE

- A. The site of the work shall be cleared of all trees, shrubs, paving and objectionable material which interfere with the prosecution of the proposed work.
- B. Trees and shrubs which will not interfere with construction shall be protected from damage.
- C. Clearing shall be considered as an incidental item of excavation.

3.02 EXCAVATION

- A. General:
  - 1. Perform excavation described of whatever substance encountered to the dimensions and depths specified or shown on the drawings.
  - 2. Undercutting will not be permitted, except when ordered by the ENGINEER. Material suitable for backfill shall be stockpiled near the site.
  - 3. Rock or other material undesirable for backfill shall be spoiled outside the area in a neat manner, as directed by the ENGINEER.
  - 4. Where it is necessary to cut roots projecting into an excavation or where it is necessary to trim branches for equipment clearance, all severed root ends or cuts to branches over 1/2-inch diameter shall be treated with an asphalt base pruning paint.
  - 5. Backfill over exposed roots as soon as possible.

**B. Rock:**

1. Where encountered in the trench bed, rock shall be excavated to a depth of 1/4 of the pipe diameter below the bottom of the pipe but in no case less than 4 inches.
2. All undercut trench excavation shall be backfilled and tamped with materials as specified in the following paragraphs under Unstable Subgrade.

**C. Unstable Subgrade:**

1. In the event that unsuitable material is encountered at or below the excavation depth specified or shown on the drawings, the ENGINEER shall be notified.
2. Such material shall be removed and replaced with suitable material. Methods and materials used for replacement shall be one of the following as directed by the ENGINEER in writing.
  - a. Suitable earth or sand compacted in the trench. Materials shall be furnished as a part of the Bid Proposal item covering excavation and backfill.
  - b. Gravel or crushed limerock, compacted in the trench and paid for under the appropriate item.
  - c. Existing materials, stabilized after removal and then replaced and compacted in the trench at no additional cost to the OWNER.
3. The Engineer shall determine the methods and materials to be used, based upon the condition of the excavation, the pipe structure to be supported, and the availability and character of stabilizing materials.

**D. Trenches:**

1. Keep pipe laying operation as close to the excavation operation as possible during the prosecution of the work. The ENGINEER reserves the right to stop the excavation at any time when, in his opinion, the excavation is opened too far in advance of the pipe laying.
  - a. Pipe trenches shall be excavated to a depth that will insure a minimum of 36 inches of cover for ductile iron and PVC pipe and 54 inches of cover for polyethylene pipe, except service laterals. Trenches shall be only of sufficient width to provide a free working space on each side of the pipe.
  - b. To prevent excess pressure on the pipe, the maximum width of trench at the top of the pipe and at the bottom of the trench shall not be greater than 2 feet more than the greatest exterior diameter of the pipe.

- c. If this maximum width is exceeded, it shall be the CONTRACTOR's responsibility to provide, at no additional cost to the OWNER, such additional bedding or select backfill materials as the ENGINEER may require.
    - d. The excavation below the spring line shall be made to conform as near as possible to the shape of the lower third of the pipe.
    - e. To protect the pipe lines from unusual stresses, all work shall be done in open trenches.
    - f. Excavation shall be made for bells of all pipes and of sufficient depth to permit access to the joint for construction and inspections. In no case will the bells be used to support the body of the pipe.
  2. In order to avoid existing utilities, at times it may be necessary for the pipe to be laid deeper than the minimum cover specified in the preceding paragraph. At such time the CONTRACTOR will not be allowed extra compensation for additional excavation involved.
  3. In case excavation has been made deeper than necessary, a layer of concrete, fine gravel or other material satisfactory to the ENGINEER shall be placed, at no extra cost, to secure a firm foundation for the lower third of each pipe.
    - a. Where possible, excavated material shall be placed so as not to interfere with public travel.
    - b. Bridging shall be provided to afford necessary access to public or private premises.
- E. Bridging shall be considered as part of the excavation operation and shall be supplied at no additional cost to the OWNER. Structural: (For inlets, manholes, valve pits and similar structures)
  1. Structural Excavation:
    - a. Sufficient material shall be removed to allow proper space for erecting and removing forms. The elevations of the bottoms of footings, if shown on the drawings, shall be considered as approximate only, and the ENGINEER may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary to secure a satisfactory foundation.
    - b. Excavation for structures shall be sufficient to leave at least 12 inches in the clear between their outer surfaces and the embankment of timber that may be used to protect them.
    - c. Backfill of earth under structures will not be permitted.

- d. Excess excavation for structures shall be filled with thoroughly compacted sand, gravel, or concrete at the expense of the CONTRACTOR.
  2. After excavation for a structure is completed, the CONTRACTOR shall notify the ENGINEER to that effect. No concrete or reinforcing steel shall be placed until the ENGINEER has approved the depth of the excavation and the character of the foundation material.
- F. Sheeting and Shoring:
1. The CONTRACTOR shall provide all trench and structural bracing, sheeting or shoring necessary to construct and protect the excavation, existing utilities, structures and private property of all types and as required for the safety of the employees.
  2. Sheeting shall be removed or cut off by the CONTRACTOR during backfilling operations as directed by the ENGINEER.
  3. Sheeting which is left in place by order of the ENGINEER will be paid for under the item, Lumber left in Place.
  4. Removal of shoring for structures shall be done in such a manner as not to disturb or mar finished masonry or concrete surfaces.

### 3.03 DRAINAGE

- A. Grading shall be controlled in the vicinity of excavations so that the surface of the ground will be properly sloped to prevent water from running into trenches or other excavated areas.
- B. Any water which accumulates in the excavations shall be promptly removed by well point or by other means satisfactory to the ENGINEER in such a manner as to not create a nuisance to adjacent property or public thoroughfare.
- C. Trenches shall be kept dry while pipe is being laid.
- D. Bridging of dewatering pipe shall be provided where necessary.
- E. Pumps and engines for well point systems shall be operated with mufflers, and at a minimum noise level suitable to a residential area.
- F. The CONTRACTOR will not be allowed to discharge water into the OWNER's storm drainage system without the written approval of the ENGINEER. Approval will be subject to the condition that the storm sewer be returned to its original condition.
- G. The CONTRACTOR is responsible for carrying the water to the nearest ditch or body of water and for obtaining the necessary permission to use same. The CONTRACTOR shall be financially responsible for any nuisance created due to carrying off water from his drainage system.

**3.04 BACKFILL**

**A. Trenches:**

1. Trenches shall be backfilled immediately after the pipe is laid unless other protection for the pipeline is provided.
2. Clean earth, sand, crushed limerock or other material approved by the ENGINEER shall be used for backfill.
3. Backfill material shall be selected, deposited, and compacted (simultaneously on both sides of the pipe) so as to eliminate the possibility of lateral displacement of the pipe.
4. Backfill material shall solidly be tamped around the pipes in layers to a level at least 1 foot above the top of the pipe. Each layer shall be compacted to a maximum thickness of 6 inches.
5. Unpaved Areas:
  - a. In unpaved areas, the remainder of the backfill shall be deposited and then compacted by puddling, water flooding, or mechanical tampers.
  - b. Mechanical tamping of layers in unpaved areas shall be to a maximum thickness of 12 inches.
6. Areas to be Paved:
  - a. In areas to be paved or repaved, the entire depth of backfill shall be deposited in layers and compacted by hand or mechanical tampers to a maximum thickness of 6 inches.
  - b. Compaction shall be carried out to achieve a density of at least 98% of the maximum density as determined by AASHTO, Method T-180.
7. Density Tests in Areas to be Paved:
  - a. In areas to be paved, density tests for determination of the specified compaction shall be made by a testing laboratory and spaced one in every 300 feet of trench cut.
  - b. It is the intent of this specification to secure a condition where no further settlement of trenches will occur.
8. Roadway Base for areas to be Paved:
  - a. When backfilling is completed, the roadway base for pavement replacement may be placed immediately.

- B. It will be the responsibility of the CONTRACTOR to restore the surface to the original grade wherever settlement occurs. Wet Trenches (CONTRACTOR's Option):
1. Backfill for the pipe bed in wet trenches shall be crushed, graded lime rock, and compacted in the trench.
  2. After the pipe is laid, a graded limerock backfill shall be placed and worked in around the haunches to a point 6 inches above the pipe. The width of the limerock material around the pipe shall not be less than the outside diameter of the pipe plus 6 inches on each side of the pipe. Material shall be carefully distributed along the pipe so as to provide full and uniform support under and around the pipe.
  3. Six inches above the top of the pipe and up to the water level, material from the excavations with no rock or earth exceeding 4 inches in any one dimension shall then be lifted to the trench and released at the water level. Material shall be uniformly distributed for the full width of the trench.
  4. Backfill and compaction above the water level in the trench shall be as specified above.
  5. All costs for graded limerock placed in wet trenches shall be included in the cost of stage excavation and backfill for the various sizes of pipe.

C. Bedding and Backfill - Flexible Pipe:

1. For polyvinyl chloride (PVC) pipe, the bedding and backfill materials shall be such as to limit the vertical ring deflection to 5% of the inside pipe diameter. A deflection greater than 5% of the inside diameter shall be cause for rejection of the pipe.
2. Class IV or Class V materials as defined in ASTM D2321-74 shall not be used for bedding, haunching or initial backfill for flexible pipes.
3. For PVC plastic pipe, bedding shall be in accordance with ASTM D2321-74, using Class I, II or III materials, except under wet conditions. In any area where the pipe will be installed below existing or future groundwater levels or where the trench could be subject to inundation, Class I material shall be placed to the springline of the pipe.
4. A minimum of effort is needed to compact the material. However, in the initial stage of placing this type of material, take care to ensure that sufficient material has been worked under the haunch of the pipe to provide adequate side support. Take precautions to prevent movement of the pipe during placing of the material under the pipe haunch.

Except for the protection of the pipe from large particles of backfill material, little care need be taken, and no compaction is necessary in placing backfill material in the balance of the initial backfill area above the pipe. Where unstable trench wall exists because of migratory materials,

such as water-bearing silts or fine sand, take care to prevent the loss of side support through the migratory action.

5. All bedding requirements for flexible pipe specified in the preceding paragraphs shall be included in the price bid for the applicable pipe material and no additional compensation for bedding material will be allowed.

**D. Structural:**

1. After completion of foundation footings and walls and other construction below the elevation of the final grades, and prior to backfilling, forms shall be removed, and the excavation shall be cleared of all trash and debris.
2. Material for backfilling shall consist of the excavation, borrow sand or other approved materials, and shall be free of trash, lumber, or other debris.
3. Backfill shall be placed in horizontal layers not in excess of 9 inches in thickness and have a moisture content such that a density may be obtained to prevent excessive settlement or shrinkage.
4. Each layer shall be compacted by hand or approved machine tampers with extreme care being exerted not to damage pipe or structures.
5. Backfill shall be placed and compacted evenly against the exposed surfaces to prevent undue stress on any surface.

**3.05 RESTORATION OF SURFACE IMPROVEMENTS**

- A. Roadways, including shoulders, alleys, and driveways of shell, limerock, stabilized soil or gravel, grass plots, sod, shrubbery, ornamental trees, signs, fences, or other surface improvements on public or private property which have been damaged or removed in excavation, shall be restored to conditions equal to or better than conditions existing prior to beginning work.
- B. Restoration of shoulders shall consist of seeding and mulching or stabilizing with limerock as selected by the ENGINEER.
- C. The cost of doing this work shall be included in the cost of the various applicable items.
- D. General Quality Control will be used as an aid in determining conditions prior to construction.
- E. Materials for unpaved roadways, road shoulders, alleys, or driveways, shall be compacted as described in the plans. The cost of this work and furnishing new materials shall be included in the cost of the applicable items of work as no separate payment will be made unless a separate bid item is provided.



**3.06 FINE GRADING**

- A. Finished areas around structures shall be graded smooth and hand raked and shall meet the elevations and contours shown on the drawings. Lumber, earth clods, rocks and other undesirable materials shall be removed from the site.

**3.07 DISPOSAL OF MATERIALS**

- A. Such portions of the excavated materials as needed and as suitable, shall be used for backfilling and grading about the completed work to the elevations as shown of the drawings or as directed. Excavated material in excess of the quantity required for this purpose shall be disposed of by the CONTRACTOR in those areas designated by the OWNER and as shown on the drawings. The CONTRACTOR shall leave the earth over the trenches or other excavations in a neat and uniform condition acceptable to the OWNER.

**3.08 PAVEMENT REPLACEMENT**

- A. Asphalt pavement shall be removed by saw cutting on a straight line with edges as vertical as possible. Concrete pavement or asphalt surfaced concrete shall be removed by cutting with a concrete saw in as straight a line and vertically as possible. Materials to replace State Highway paving shall conform to the specifications required by the Florida Department of Transportation Specifications for Type S-I asphaltic concrete surface course, or as specifically shown in the plans.
- B. Prior to replacing concrete or asphalt pavement replacement, a limerock base shall be laid. The base for concrete pavement shall be 6 inches of compacted thickness, and that for asphalt pavement shall be 8 inches of compacted thickness. The base course for each shall be compacted to a minimum of 98% of the maximum density as determined by AASHTO, Method T-180. The OWNER will have tests made by an independent testing laboratory to verify compaction results. One test will be made for each block of continuous trench cut.
- C. Non-asphalt pavement replacement shall be replaced of like material and thickness. Asphalt or built-up asphalt pavement shall be replaced with like material or concrete as directed by the ENGINEER.
- D. Where asphalt or built-up asphalt pavement is replaced by concrete, the concrete shall have a minimum of 6 inches in thickness and be reinforced with 6 by 6 no. 6 gage welded wire fabric. Concrete for paving shall be 3,000 psi design strength. Where the pavement replacement is of like material, it shall be replaced in thickness equal to or better than that existing at the time of removal.
- E. Unless the base is sealed or other temporary paving applied over areas to be repaved, pavement shall be replaced not later than 3 weeks after completion of backfill.

**3.09 TESTS**

- A. The CONTRACTOR shall furnish facilities for making all density tests and make such restorations as may be necessary due to test operations. All density tests on backfill or base replacement will be made by a commercial testing laboratory employed by the CONTRACTOR and at such locations as may be recommended by the ENGINEER. If the densities as determined by the specified tests fall below the required minimums, the CONTRACTOR shall pay for all retests.

**3.10 SIDEWALK, CURB AND GUTTER REMOVAL AND REPLACEMENT**

- A. Sidewalk, curb and gutter removal and replacement required in the construction of this work shall be done by the CONTRACTOR.
- B. Reasonable care shall be exercised in removing sidewalk and curb and gutter, and the CONTRACTOR shall either stockpile or dispose of this material as directed by the ENGINEER.
- C. Brick, concrete or built-up asphalt sidewalk replacement and curb and gutter replacement shall be replaced of like material in a manner and condition equal to or better than that existing at the time of removal.
- D. Materials and methods of replacing State Highway sidewalks or curbs shall conform to the Florida Department of Transportation specifications.

**END OF SECTION**

**SECTION 02513**  
**ASPHALT CONCRETE PAVING**

**PART 1 - GENERAL**

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to work of this section. The Standard Specifications referenced in this section refer to the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition.

DESCRIPTION OF WORK:

Extent of asphalt concrete leveling and resurfacing work is shown on drawings and called out in the bid quantities.

SUBMITTALS:

Material Certificates: Provide copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

JOB CONDITIONS:

Weather Limitations: Apply prime and tack coats when ambient temperature is above 50 degrees F. (10 degrees C), and when temperature has not been below 35 degrees F. (1 degree C), and when base is dry. Surface course may be placed when air temperature is above 30 degrees F. (-1 degree C) and rising.

Grade Control: Establish and maintain required lines and elevations.

**PART 2 - PRODUCTS**

MATERIALS:

General: Use locally available materials and gradations which exhibit a satisfactory record of previous installations. Surface Coarse Aggregate: Crushed stone, crushed gravel, crushed slag, and sharp-edged natural sand.

ASPHALT-AGGREGATE MIXTURE:

Provide asphalt-aggregate mixture as recommended by local paving authorities and/or approved by the Engineer to suit project conditions.

**PART 3 - EXECUTION**

SURFACE PREPARATION:

Proof roll prepared base surface to check for unstable areas and areas requiring additional compaction.

Notify Engineer of unsatisfactory conditions. Do not begin paving work until deficient base areas have been corrected and are ready to receive paving.

Tack Coat: Apply to contact surfaces of previously constructed asphalt or Portland Cement Concrete and surfaces abutting or projecting into asphalt concrete pavement. Distribute at a rate of 0.05 to 0.15 gal. per sq. yd. of surface.

Allow to dry until at proper condition to receive paving.

**PRECAUTIONS:**

The application of tack shall be as not to allow long distances between the application truck and the paving operations.

**PLANT MIX ASPHALTIC CONCRETE COURSE:**

General: This item shall consist of a leveling wearing surface constructed of asphaltic concrete on a prepared base, in accordance with the plans and specifications.

Materials: The materials and construction methods shall comply with those set forth for Type S-1 or S-3 Asphaltic Concrete in the latest edition of the Standard Specifications, Sections 330 and 331.

The asphaltic cement shall meet the requirements of AASHTO Specification M-20, Viscosity Grade AC-20 (Penetration Grade 60-70).

Job Mix Formula: The Marshall of testing will be used in establishing the job mix formula and for control testing throughout the work

The density of field samples shall not be less than the Marshall laboratory compacted mixture composed of the same materials in like proportions.

Thickness: The thickness of the surface shall be as called for. This requirement shall be checked by cores and where a deficiency of more than 1/4" exists, the Contractor shall be required to correct the deficiency either by replacing the full thickness or overlaying the area to the satisfaction of the Engineer.

**PLACING THE MIX:**

Place the asphaltic concrete mixtures for both leveling and surface course in accordance with Section 330 of the FDOT Standard Specifications for Road and Bridge Construction, latest edition.

**ROLLING:**

The rolling operations shall be in accordance with FDOT Standard Specifications for Road and Bridge Construction, latest edition.

**TRAFFIC AND LANE MARKINGS:**

Cleaning: Sweep and clean surface to eliminate loose material and dust.

Striping: Use traffic lane-marking paint in accordance with Section 971 of the Florida Department of Transportation Standard Specifications. All paint will be fast-drying, reflectorized traffic paint.

**FIELD QUALITY CONTROL:**

General: Test in-place asphalt concrete courses for paving as directed by the Engineer for smoothness. Repair or remove and replace unacceptable paving as directed by the Engineer.

Thickness: In-place compacted thickness will not be acceptable if exceeding following allowable variation from required thickness:

Surface Course: 1/4", less than that specified.

Surface Smoothness: Test finished surface of each asphalt concrete course for smoothness, using 15' straightedge applied parallel with, and at right angles to centerline of paved area. Surfaces will not be acceptable if exceeding the following tolerances for smoothness.

Wearing Course Surface: 3/16".

Check surfaced areas at intervals as directed by the Engineer.

**MISCELLANEOUS REQUIREMENTS:**

Each driveway transitions shall be smooth and without steep slopes. Transitions into existing driveways shall be no more than 12-inches. If more than 12-inches is needed in order to achieve a smooth transition, it shall only be done only at the direction of the Engineer.

Existing blue fire hydrant markers shall be removed prior to paving operations. Upon completion of all paving operations, the Contractor shall place a new marker at each fire hydrant.

END OF SECTION 02513

**SECTION 02950  
SITE RESTORATION**

**PART 1 - GENERAL**

**1.01 DESCRIPTION OF WORK**

- A. The work includes the restoration of driveways, lawn areas, trees and plants, roadways, sprinkler systems, walks and any other existing improvement affected by the proposed work.
- B. This section includes furnishing equipment, labor and materials, and performing all necessary and incidental operations to perform the required work.

**PART 2 – PRODUCTS**

**2.01 SOD**

- A. Any slope equal to or steeper than 1 vertical to 3 horizontal shall be sodded and the sod shall be pinned down for stabilization.
- B. The CONTRACTOR shall, at his expense, maintain the sodded areas in a satisfactory condition until final acceptance of the project. Such maintenance shall include watering, re-staking sod, filling, leveling and repairing of any washed or eroded areas, as may be necessary.

**2.02 PLANTS AND TREES**

- A. Existing damaged plants and tress shall be replaced by plants and trees of equal type, quality, and size whenever possible. All new plants and trees shall be sound, healthy, vigorous, and free from defects, decay, disfiguring, bark abrasions, plant diseases, insect pests, their eggs, or larvae. The new plants shall be approved by the ENGINEER before placing.
- B. Existing plants may be removed, preserved, and replaced at the CONTRACTORs option. Plants shall be handled by an approved nursery.
- C. Plants shall be watered and cared for until new growth appears. Dead and dying plants shall be immediately replaced. Plants used shall be in accordance with the standards for Florida No. 1 or better as given in Grades and Standards for Nursery Plants Part 1.
- D. Plants shall conform to the sizes indicated by the OWNER.
- E. Trees shall be guaranteed for one year. If the replaced tree dies within one year of project completion it shall be replaced by the CONTRACTOR at no expense to the Government.

**2.03 MULCH**

- A. Match existing mulch.

**2.04 WATER**

- A. The water used in the performance of this Contract shall be of drinking water quality, clean and free from injurious amounts of oil, acid, alkali, or organic matter.

**2.05 PLANTING MIXTURE:**

- A. The 18-inch planting mixture, when required, shall consist of a thorough mixture of 40% peat and 60% sand. The peat shall be Florihome peat or equivalent and the sand shall be clean and free from debris of any kind.

**2.06 FERTILIZER**

- A. Fertilizer shall be pelletized 13-13-13 or approved equal.

**PART 3 - EXECUTION**

**3.01 LANDSCAPING RESTORATION**

**A. Lawn Areas:**

- 1. Any lawn area affected by the required work shall be restored to a condition equal or better than the conditions existing before the commencement of work.

**B. Balled Plants:**

- 1. Plants where required shall be adequately balled with firm natural balls of soil, sized as set forth in "Horticultural Standards."
- 2. Balls shall be firmly wrapped with burlap or equally approved strong cloth.

**C. No balled plant will be planted if the ball is cracked or broken before or during the process of planting.**

**D. Preparation of Plant Pits:**

- 1. All plant pits shall be circular in outline and have vertical sides.
- 2. Tree pits shall be two feet wider than the width of the ball and 1 foot deeper than the depth of the ball.
- 3. Shrubs that are either B&B or 3 gallons + shall have pits 2 feet wider than the width of the plant ball and 6 inches deeper than the depth of the ball.
- 4. Smaller shrubs shall have pits that are at least one foot wider than the width of the plant ball and 6 inches deeper than the ball depth.

- E. Setting Plants:
  - 1. All plants except as otherwise specified, shall be centered in pits.
  - 2. Deep planting shall be avoided and unless otherwise specified, plants shall be set at such a level that after settlement they will bear the same relation to the required grade as they have to the natural grade before being transplanted.
  
- F. Balled and Burlapped:
  - 1. Balled and burlapped plants and palm trees shall be placed on 6 inches to 12 inches of tamped planting mixture and adjusted so as to be at the proper level.
  - 2. The rope and burlap shall be cut away and the burlap folded down to the bottom of the pit.
  - 3. Very large B&B plants shall remain wrapped until fully backfilled and then just the upper portion of the burlap shall be removed.
  - 4. Backfill of planting mix shall be placed halfway up the pit and then water tamped.
  - 5. After this water has drained away, backfill around the ball to grade and water tamp again.
  - 6. Finally, form a ridge of soil around the edge of the pit to form a saucer and full area three times with water.
  
- G. Water: Water to be used initially during plant installation shall be furnished by the CONTRACTOR. The existing irrigation system, where damaged, shall be promptly repaired after the installation of the plants.
  
- H. Options as to Methods:
  - 1. Any plant may be furnished container grown instead of balled if all other requirements are met.
  
- I. Immediately before sod is placed, 8-8-8 fertilizer shall be applied at the rate of approximately 500 pounds per acre, by broadcasting and raking into the planting area.
  
- J. Sod shall be firmly embedded by light tamping. Wherever necessary to prevent an erosion condition caused by vertical edges at the outer limits of the sodded area, the sod shall be tamped so as to produce a featheredge at the outer limits. The sod shall be kept in a moist condition after it is planted. Water shall not be applied between the hours of 8 a.m., and 4 p.m. or when there is danger of freezing.



- K. The CONTRACTOR shall, at his expense, maintain the planted areas in a satisfactory condition until final acceptance of the project. Such maintenance shall include watering, filling, leveling and repairing of any washed or eroded areas, as may be necessary.

**3.02 PAVEMENT REPLACEMENT**

- A. Asphalt pavement shall be removed by saw cutting on a straight line with edges as vertical as possible. Concrete pavement or asphalt surfaced concrete shall be removed by cutting with a concrete saw in as straight a line and vertically as possible.
- B. Non-asphalt pavement replacement shall be replaced of like material and thickness. Asphalt or built-up asphalt pavement replacement shall be replaced with like material or concrete as directed by the ENGINEER.
  - 1. Where asphalt or built-up asphalt pavement is replaced by concrete, the concrete shall have a minimum of 6 inches in thickness and be reinforced with 6 by 6 No. 6 gage welded wire fabric.
  - 2. Where the pavement replacement is of like material, it shall be replaced in thickness equal to or better than that existing at the time of removal.
- C. Road cuts across City, County, or State roads shall not be cut.

- 3.03 Unless the base is sealed or other temporary paving applied over driveway areas to be repaved, pavement shall be replaced not later than three weeks after completion of backfill.

**3.04 CURB REMOVAL AND REPLACEMENT**

- A. Curb removal and replacement required in the construction of this work shall be done by the CONTRACTOR.
- B. Reasonable care shall be exercised in removing the curb, and the CONTRACTOR shall either stockpile or dispose of this material as directed by the ENGINEER.
- C. Curb shall be replaced of like material in a manner and condition equal to or better than that existing at the time of removal.
- D. Materials and methods of replacing State Highway sidewalks or curbs shall conform to the Department of Transportation specifications.

**3.05 TESTS**

- A. The CONTRACTOR shall furnish facilities for making all density tests and make such restorations as may be necessary due to test operations.

- B. All density tests on backfill or base replacement will be made by a commercial testing laboratory employed by the CONTRACTOR at such locations as may be recommended by the ENGINEER.
- C. If the densities as determined by the specified tests fall below the required minimums, the CONTRACTOR shall pay for all retests.

END OF SECTION

**SECTION 03310  
CONCRETE WORK**

**PART 1 - GENERAL**

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to work of this section.

DESCRIPTION OF WORK:

Extent of concrete work is shown on Drawings.

Concrete paving and walks are specified in Division 2.

Mechanical finishes and concrete floor toppings are specified in other Division 3 sections.

SUBMITTALS:

Product Data: Submit data proprietary materials and items, including reinforcement and forming accessories, admixtures, patching compounds, waterstops, joint systems, curing compounds, dry-shake finish materials, and others as requested by Engineer.

Shop Drawings, Reinforcement: Submit original shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Manual of Standard Practice for Detailing Reinforced Concrete Structures" showing bar schedules, stirrup spacing, diagrams of bent bars, and arrangement of concrete reinforcement. Include special reinforcement required for openings through concrete structures.

Engineer's review is for general engineering applications and features only. Design of formwork for structural stability and efficiency is Contractor's responsibility.

Laboratory Test Reports: Submit laboratory test reports for concrete materials and mix design test.

QUALITY ASSURANCE:

Codes and Standards: Comply with provisions of following codes, specifications, and standards, except where more stringent requirements are shown or specified:

ACI 301 "Specifications for Structural Concrete for Buildings".

ACI 318 "Building Code Requirements for Reinforced Concrete".

Concrete Reinforcing Steel Institute (CRSI) "Manual of Standard Practice".

Concrete Testing Services: Engage a testing laboratory acceptable to Engineer to perform material evaluation tests and to design concrete mixes.

Materials and installed work may require testing and retesting at anytime during progress of work. Tests, including retesting of rejected materials for installed work, shall be done at Contractor's expense.

**PROJECT CONDITIONS:**

Protection of Footings against Freezing: Cover completed work at footing level with sufficient temporary or permanent cover as required to protect footings and adjacent subgrade against possibility of freezing; maintain cover for time period as necessary.

Protect adjacent finish materials against spatter during concrete placement.

**PART 2 - PRODUCTS**

**FORM MATERIALS:**

Forms for Exposed Finish Concrete: Plywood, metal, metal-framed plywood faced, or other acceptable panel-type materials, to provide continuous, straight, smooth, exposed surfaces. Furnish in largest practicable sizes to minimize number of joints.

Use plywood complying with U. S. Product Standard PS-1 "B-B (Concrete Form) Plywood", Class I, Exterior Grade or better, mill-oiled and edge-sealed, with each piece bearing legible inspection trademark.

Forms for Unexposed Finish Concrete: Plywood, lumber, metal, or other acceptable material. Provide lumber dressed on at least 2 edges and one side for tight fit.

Form Coatings: Provide commercial formulation form-coating compounds that will not bond with, stain, nor adversely affect concrete surfaces, and will not impair subsequent treatments of concrete surfaces.

Form Ties: Factory-fabricated, adjustable-length, removable or snap-off metal form ties, designed to prevent form deflection and to prevent spalling concrete upon removal. Provide units which will leave no metal closer than 1-1/2" to surface.

Provide ties which, when removed, will leave holes not larger than 1" diameter in concrete surface.

**REINFORCING MATERIALS:**

Reinforcing Bars: ASTM A 615, Grade 60, deformed.

Steel Wire: ASTM A 82, plain, cold-drawn steel.

Welded Wire Fabric: ASTM A 185, welded steel wire fabric.

Welded Deformed Steel Wire Fabric: ASTM A 497.

Supports for Reinforcement: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire fabric in place. Use wire bar type supports complying with CRSI specifications.

For slabs-on-grade, use supports with sand plates or horizontal runners where base material will not support chair legs.

**CONCRETE MATERIALS:**

Portland Concrete: ASTM C 150, Type I.

Use one brand of cement throughout project, unless otherwise acceptable to Engineer.

Normal Weight Aggregates: ASTM C 33, and as herein specified. Provide aggregates from a single source for exposed concrete.

For exterior exposed surfaces, do not use fine or coarse aggregates containing spalling-causing deleterious substances.

Water: Drinkable.

**RELATED MATERIALS:**

Polyvinyl Chloride Waterstops: Corps of Engineers CRD-C 572.

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

Manufacturer: Subject to compliance with requirements, provide products of one of the following or equal:

AFCO Products  
The Burke Co.  
Edoco Technical Products  
Greenstreet Plastic Products  
Harbour Town Products  
W. R. Meadows  
Progress Unlimited  
Schleigel Corp.  
Vinylex Corp.

Granular Base: Evenly graded mixture of fine and coarse aggregates to provide, when compacted, a smooth and even surface below slabs on grade.

Vapor Retarder: Provide vapor retarder cover over prepared base material where indicated below slabs on grade. Use only materials which are resistant to decay when tested in accordance with ASTM E 154, as follows:

Polyethylene sheet not less than 8 mils thick.

Non-Shrink Grout: CRD-C 621, factory pre-mixed grout.

Products: Subject to compliance with requirements, provide one of the following or equal:

**Metallic:**

"Vibrofoil", A. C. Horn, Inc.  
"Metallic Spec. Grout", The Burke Co.  
"Embeco 636", Master Builders  
"Ferrolith GDS", Sonneborn-Rexnord  
"Hi-Mod Grout", Euclid Chemical Co.  
"Kemox G", Sika Chemical Co.  
"Ferrogrout", L & M Const. Chemical Co.  
"Supreme Plus", Gifford-Hill/American Admixtures

**Non-metallic:**

"Set Grout", Master Builders  
"SonogROUT", Sonneborn-Rexnord  
"Euco-NS", Euclid Chemical Co.  
"Supreme", Gifford-Hill/American Admixtures  
"Crystex", L & M Const. Chemical Co.  
"Sure-Grip Grout", Dayton Superior Corp.  
"Horngrout", A. C. Horn, Inc.  
"Five Star Grout", U. S. Grout Corp.

Liquid Membrane-Forming Curing Compound: Liquid type membrane-forming curing compound complying with ASTM C 309, Type I, Class A. Moisture loss not more than 0.055 gr./sq. cm. when applied at 200 sq. ft./gal.

Products: Subject to compliance with requirements, provide one of the following or equal:

"Masterseal", Master Builders  
"A-H 3 Way Sealer", Anti-Hydro Waterproofing Co.  
"Ecocure", Euclid Chemical Co.  
"Clear Seal", A. C. Horn, Inc.  
"Sealco 309", Gifford-Hill/American Admixtures  
"J-20 Acrylic Cure", Dayton Superior  
"Spartan-Cote", The Burke Co.  
"Sealkure", Toch Div. - Carboline  
"Kure-N-Seal", Sonneborn-Rexnord  
"Polyclear", Upco Chemical/USM Corp.  
"L & M Cure", L & M Construction Chemicals  
"Klearseal", Setcon Industries  
"LR-152", Protex Industries  
"Hardtop", Gifford-Hill

**PROPORTIONING AND DESIGN OF MIXES:**

Prepare design mixes for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method used, use an independent testing facility acceptable to Engineer for preparing and reporting proposed mix designs. The testing facility shall not be the same as used for field quality control testing.

Submit written reports to Structural Engineer of each proposed mix for each class of concrete at least 15 days prior to start of work. Do not begin concrete production until mixes have been reviewed by Engineer.

Design mixes to provide normal weight concrete with the following properties, as indicated on drawings and schedules:

4000 psi 28-day compressive strength; W/C ratio, 0.44 maximum (non-air-entrained).

3000 psi 28-day compressive strength; W/C ratio, 0.58 maximum (non-air-entrained).

2500 psi 28-day compressive strength; W/C ratio, 0.67 maximum (non-air-entrained).

Lightweight Concrete: Proportion mix as herein specified. Design mix to produce strength and modulus of elasticity as noted on Drawings, with a split-cylinder strength factor (Fct) of not less than 5.5 for 3000 psi concrete and a dry weight of not less than 95 lbs. or more than 110 lbs. after 28 days. Limit shrinkage to 0.03 percent at 28 days.

Adjustment to Concrete Mixes: Mix design adjustments may be requested by Contractor when characteristics of materials, job conditions, weather, test results, or other circumstances warrant; at no additional cost to Owner and as accepted by Engineer. Laboratory test data for revised mix design and strength results must be submitted to and accepted by Engineer before using in work.

Use air-entraining admixture in exterior exposed concrete, unless otherwise indicated. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having total air content with a tolerance of plus-or-minus 1-1/2 percent within following limits:

Slump Limits: Proportion and design mixes to result in concrete slump at point of placement as follows:

Ramps, slabs, and sloping surfaces: Not more than 3 inches.

Reinforced foundation systems: Not less than 1 inch and not more than 3 inches.

Concrete containing HRWR admixture (super-plasticizer): Not more than 8 inches after addition of HRWR to site-verified 2-3 inches slump concrete.

Other concrete: Not less than 1 inch nor more than 4 inches.

#### CONCRETE MIXING:

Ready-Mix Concrete: Comply with requirements of ASTM C 94, and as herein specified.

During hot weather, or under conditions contributing to rapid setting of concrete, a shorter mixing time than specified in ASTM C 94 may be required.

### **PART 3 - EXECUTION**

#### GENERAL:

Coordinate the installation of joint materials and vapor retarders with placement of forms and reinforcing steel.

#### FORMS:

Design, erect, support, brace, and maintain formwork to support vertical and lateral, static, and dynamic loads that might be applied until such loads can be supported by concrete structure. Construct formwork so concrete members and structures are of correct size, shape, alignment, elevation, and position. Maintain formwork construction tolerances complying with ACI 347.

Design formwork to be readily removable without impact, shock, or damage to cast-in-place concrete surfaces and adjacent materials.

Construct forms to sizes, shapes, lines, and dimensions shown, and to obtain accurate alignment, location, grades, level, and plumb work in finished structures. Provide for openings, offsets, sinkages, keyways, recesses, moldings, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts, and other features required to work. Use selected materials to obtain required finishes. Solidly butt joints and provide back-up at joints to prevent leakage of cement paste.

Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush plates or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces where slope is too steep to place concrete with bottom forms only. Kerf wood inserts for forming keyways, reglets, recesses, and the like, to prevent swelling and for easy removal.

Provide temporary openings where interior area of formwork is inaccessible for cleanout, for inspection before concrete placement, and for placement of concrete. Securely brace temporary openings and set tightly to forms to prevent loss of concrete mortar. Locate temporary openings on forms at inconspicuous locations.

Chamfer exposed corners and edges as indicated, using wood, metal, PVC, or rubber chamfer strips fabricated to produce uniform smooth lines and tight edge joints.

Provisions for Other Trades: Provide openings in concrete formwork to accommodate work of other trades. Determine size and location of openings, recesses, and chases from trades providing such items. Accurately place and securely support items built into forms. Other trades shall provide location and size of openings. The forms for such openings shall be constructed and set in place under this section.

Cleaning and Tightening: Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, or other debris just before concrete is placed. Retightening forms and bracing after concrete placement is required to eliminate mortar leaks and maintain proper alignment.



**VAPOR RETARDER INSTALLATION:**

Following leveling and tamping of granular base for slabs on grade, place vapor retarder sheeting with longest dimension parallel with direction of pour.

Lap joints 6" and seal with appropriate tape.

**PLACING REINFORCEMENT:**

Comply with Concrete Reinforcing Steel Institute's recommended practice for "Placing Reinforcing Bars", for details and methods of reinforcement placement and supports, and as herein specified.

Avoid cutting or puncturing vapor retarder during reinforcement placement and concreting operations.

Clean reinforcement of loose rust and mill scale, earth, ice, and other materials which reduce or destroy bond with concrete.

Accurately position, support, and secure reinforcement against displacement by formwork, construction, or concrete placement operations. Locate and support reinforcing by metal chairs, runners, bolsters, spacers, and hangers, as required.

Place reinforcement to obtain at least minimum coverages for concrete protection. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.

Install welded wire fabric in as long lengths as practicable. Lap adjoining pieces at least one full mesh and lace splices with wire. Offset end laps in adjacent widths to prevent continuous laps in either direction.

**JOINTS:**

Construction Joints: Locate and install construction joints as indicated or, if not indicated, locate so as not to impair strength and appearance of the structure, as acceptable to Engineer.

Place construction joints perpendicular to main reinforcement. Continue reinforcement across construction joints, except as otherwise indicated.

Waterstops: Provide waterstops in construction joints as indicated. Install waterstops to form continuous diaphragm in each joint. Make provisions to support and protect exposed waterstops during progress of work. Fabricate field joints in waterstops in accordance with manufacturer's printed instructions.

Isolation Joints in Slabs-on-Ground: Construct isolation joints in slabs-on-ground at points of contact between slabs-on-ground and vertical surfaces, such as column pedestals, foundation walls, grade beams, and elsewhere as indicated.

INSTALLATION OF EMBEDDED ITEMS:

General: Set and build into work anchorage devices and other embedded items required for other work that is attached to, or supported by, cast-in-place concrete. Use setting drawings, diagrams, instructions, and directions provided by suppliers of items to be attached thereto.

PREPARATION OF FORM SURFACES:

Clean re-used forms of concrete matrix residue, repair and patch as required to return forms to acceptable surface condition.

Coat contact surfaces of forms with a form-coating compound before reinforcement is placed.

Thin form-coating compounds only with thinning agent of type, amount, and under conditions of form-coating compound manufacturer's directions. Do not allow excess form-coating material to accumulate in forms or to come into contact with in-place concrete surfaces against which fresh concrete will be placed. Apply in compliance with manufacturer's instructions.

CONCRETE PLACEMENT:

Preplacement Inspection: Before placing concrete, inspect and complete formwork installation, reinforcing steel, and items to be embedded or cast-in. Notify other crafts to permit installation of their work; cooperate with other trades in setting such work. Moisten wood forms immediately before placing concrete where form coatings are not used.

Apply temporary protective covering to lower 2' of finished walls adjacent to poured floor slabs and similar conditions, and guard against spattering during placement.

General: Comply with ACI 304 "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete", and as herein specified.

Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as herein specified. Deposit concrete as nearly as practicable to its final location to avoid segregation.

Placing Concrete in Forms: Deposit concrete in forms in horizontal layers not deeper than 24 inches and in a manner to avoid inclined construction joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.

Consolidate placed concrete by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI 309.

Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations not farther than visible effectiveness of machine. Place vibrators to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing segregation of mix.

Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.

Consolidate concrete during placing operations so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.

Bring slab surfaces to correct level with straightedge and strikeoff. Use bull floats or darbies to smooth surface, free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations.

Maintain reinforcing in proper position during concrete placement operations.

Cold Weather Placing: Protect concrete work from physical damage or reduced strength which could be caused by frost, freezing actions, or low temperatures, in compliance with ACI 306 and as herein specified.

When air temperature has fallen to or is expected to fall below 40 degrees F (4 degrees C), uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 degrees F (10 degrees C), and not more than 80 Degrees F (27 degrees C) at point of placement.

Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.

Do not use calcium chloride, salt, and other materials containing antifreeze agents or chemical accelerators, unless otherwise accepted in mix designs.

Hot Weather Placing: When hot weather conditions exist that would seriously impair quality and strength of concrete, place concrete in compliance with ACI 305 and as herein specified.

Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 degrees F (32 degrees C). Mixing water may be chilled or chopped ice may be used to control temperature provided water equivalent of ice is calculated to total amount of mixing water. Use of liquid nitrogen to cool concrete is Contractor's option.

Cover reinforcing steel with water-soaked burlap if it becomes too hot, so that steel temperature will not exceed the ambient air temperature immediately before embedment in concrete.

Fog spray forms, reinforcing steel, and subgrade just before concrete is placed.

Use water-reducing retarding admixture (Type D) when required by high temperatures, low humidity, or other adverse placing conditions.

#### FINISH OF FORMED SURFACES:

Rough Form Finish: For formed concrete surfaces not exposed-to-view in the finish work or by other construction, unless otherwise indicated. This is the concrete surface having texture imparted by form facing material used, with tie holes and defective areas repaired and patched and fins and other projections exceeding 1/4 inch in height rubbed down or chipped off.

Smooth Form Finish: For formed concrete surfaces exposed-to-view, or that are to be covered with a coating material applied directly to concrete, or a covering material applied directly to concrete, such as waterproofing, dampproofing, veneer plaster, painting, or other similar system. This is as-cast concrete surface obtained with selected form facing material, arranged orderly and symmetrically with a minimum of seams. Repair and patch defective areas with fins or other projections completely removed and smoothed.

Grout Cleaned Finish: Provide grout cleaned finish to scheduled concrete surfaces which have received smooth form finish treatment.

Combine one-part Portland cement to 1-1/2 parts fine sand by volume and mix with water to consistency of thick paint. Proprietary additives may be used at Contractor's option. Blend standard Portland cement and white Portland cement, amounts determined by trial patches, so that final color of dry grout will match adjacent surfaces.

Thoroughly wet concrete surfaces and apply grout to coat surfaces and fill small holes. Remove excess grout by scraping and rubbing with clean burlap. Keep damp by fog spray for at least 36 hours after rubbing.

Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces occurring adjacent to formed surfaces, strike-off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

#### MONOLITHIC SLAB FINISHES:

ASTM E 1155, "Standard Test Method for Determining Floor Flatness and Levelness Using the "F Number System (inch-pound-units)", shall be used for these finishes as follows:

Scratch Finish: Apply scratch finish to monolithic slab surfaces that are to receive concrete floor topping or mortar setting beds for tile, Portland cement terrazzo, and other bonded applied cementitious finish flooring material, and as otherwise indicated.

After placing slabs, plane surface to tolerances for floor flatness (FF) of 15 and floor levelness (FL) of 13. Slope surfaces uniformly to drains where required. After leveling, roughen surface before final set, with stiff brushes, brooms, or rakes.

Float Finish: Apply float finish to monolithic slab surface to receive trowel finish and other finishes as hereinafter specified, and slab surfaces which are to be covered with membrane or elastic waterproofing membrane or elastic roofing, or sand-bed terrazzo, and as otherwise indicated.

After screeding, consolidating, and leveling concrete slabs, do not work surface until ready for floating. Begin floating when surface water has disappeared or when concrete has stiffened sufficiently to permit operation of power-driven floats, or both. Consolidate surface with power-driven floats, or by hand-floating if area is small or inaccessible to power units. Check and level surface plane to tolerances of FF 18 - FL 15. Cut down high spots and fill low spots. Uniformly slope surfaces to drains. Immediately after leveling, refloat surface to a uniform, smooth, granular texture.

Trowel Finish: Apply trowel finish to monolithic slab surfaces to be exposed-to-view, and slab surfaces to be covered with resilient flooring, carpet, ceramic or quarry tile, paint, or other thin film finish coating system.

After floating, begin first trowel finish operation using a power-driven trowel. Begin final troweling when surface produces a ringing sound as trowel is moved over surface. Consolidate concrete surface by final hand-troweling operation, free of trowel marks, uniform in texture and appearance, and with surface leveled to tolerances of FF 20 - FL 17. Grind smooth surface defects which would telegraph through applied floor covering system.

Trowel and Fine Broom Finish: Where ceramic or quarry tile is to be installed with thin-set mortar, apply trowel finish as specified, then immediately follow with slightly scarifying surface by fine brooming.

Non-Slip Broom Finish: Apply non-slip broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.

Immediately after float finishing, slightly roughen concrete surface by brooming with fiber bristle broom perpendicular to main traffic route. Coordinate required final finish with Engineer before application.

#### CONCRETE CURING AND PROTECTION:

General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Weather permitting, keep continuously moist for not less than 7 days.

Begin final curing procedures immediately following initial curing and before concrete has dried. Continue final curing for at least 7 days in accordance with ACI 301 procedures. Avoid rapid drying at end of final curing period.

Curing Methods: Perform curing of concrete by curing and sealing compound, by moist curing, by moisture-retaining cover curing, and by combinations thereof, as herein specified.

Provide moisture curing by the following methods:

Keep concrete surface continuously wet by covering with water.

Continuous water-fog spray.

Covering concrete surface with specified absorptive cover, thoroughly saturating cover with water and keeping continuously wet. Place absorptive cover to provide coverage of concrete surfaces and edges, with 4-inch lap over adjacent absorptive covers.

Provide moisture-cover curing as follows:

Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width with sides and ends lapped at least 3 inches and sealed by waterproof

tape of adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

Provide curing slabs and sealing compounds to exposed interior slabs and to exterior slabs, walks, and curbs, as follows:

Apply specified curing and sealing compound to concrete slabs as soon as final finishing operations are complete (within 2 hours). Apply uniformly in continuous operation by power-spray or roller in accordance with manufacturer's directions. Recoat areas subjected to heavy rainfall within 3 hours after initial application. Maintain continuity of coating and repair damage during curing period.

Do not use membrane curing compounds on surfaces which are to be covered with coating material applied directly to concrete, liquid floor hardener, waterproofing, dampproofing, membrane roofing, flooring (such as ceramic or quarry tile, glue-down carpet), painting, and other coatings and finish materials, unless otherwise acceptable to Engineer.

**Curing Formed Surfaces:** Cure formed concrete surfaces, including undersides of beams, supported slabs, and other similar surfaces by moist curing with forms in place for full curing period or until forms are removed. If forms are removed, continue curing by methods specified above, as applicable.

**Curing Unformed Surfaces:** Cure unformed surfaces, such as slabs, floor topping, and other flat surfaces by application of appropriate curing method.

Final cure concrete surfaces to receive liquid floor hardener or finish flooring by use of moisture-retaining cover, unless otherwise directed.

**Sealer and Dustproofer:** Apply a second coat of specified curing and sealing compound only to surfaces given a first coat.

#### SHORES AND SUPPORTS:

Remove shoring from ground to roof for structures 4 stories or less, unless otherwise permitted.

Remove shores and reshore in a planned sequence to avoid damage to partially cured concrete. Locate and provide adequate reshoring to safely support work without excessive stress or deflection.

Keep shores in place a minimum of 15 days after placing upper tier, and longer if required, until concrete has attained its required 28-day strength and heavy loads due to construction operations have been removed.

#### REMOVAL OF FORMS:

Formwork not supporting weight of concrete, such as sides of beams, walls, columns, and similar parts of the work, may be removed after cumulatively curing at not less than 50 degrees F (10 degrees C) for 24 hours after placing concrete, provided concrete is sufficiently hard to not be

damaged by form removal operations, and provided curing and protection operations are maintained.

Form facing material may be removed 4 days after placement, only if shores and other vertical supports have been arranged to permit removal of form facing material without loosening or disturbing shores and supports.

**RE-USE OF FORMS:**

Clean and repair surfaces of forms to be re-used in work. Split, frayed, delaminated, or otherwise damaged from facing material will not be acceptable for exposed surfaces. Apply new form coating compound as specified for new formwork.

When forms are extended for successive concrete placement, thoroughly clean surfaces, remove fins and laitance, and tighten forms to close joints. Align and secure joint to avoid offsets. Do not use "patched" forms for exposed concrete surfaces, except as acceptable to Engineer.

**MISCELLANEOUS CONCRETE ITEMS:**

Filling-In: Fill-in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place, and cure concrete as herein specified, to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.

Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and steel troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.

Equipment Bases and Foundations: Provide machine and equipment bases and foundations, as shown on drawings. Set anchor bolts for machines and equipment to template at correct elevations, complying with certified diagrams or templates of manufacturer furnishing machines and equipment.

Grout base plates and foundations as indicated, using specified non-shrink grout. Use non-metallic grout for exposed conditions, unless otherwise indicated.

Reinforced Masonry: Provide concrete grout for reinforced masonry lintels and bond beams where indicated on drawings and as scheduled including filling of concrete modular unit cavities where called for on plans. Maintain accurate location of reinforcing steel during concrete placement.

**CONCRETE SURFACE REPAIRS:**

Patching Defective Areas: Repair and patch defective areas with cement mortar immediately after removal of forms, when acceptable to Engineer.

Cut out honeycomb, rock pockets, voids over 1/4 inch in any dimension, and holes left by tie rods and bolts, down to solid concrete but, in no case to a depth of less than 1 inch. Make edges of cuts perpendicular to the concrete surface. Thoroughly clean, dampen with water, and brush-coat the area to be patched with specified bonding agent. Place patching mortar after bonding compound has dried.

Repair of Formed Surfaces: Remove and replace concrete having defective surfaces if defects cannot be repaired to satisfaction of Engineer. Surface defects, as such, include color and texture irregularities, cracks, spalls, air bubbles, honeycomb, rock pockets; fins and other projections on surface; and stains and other discolorations that cannot be removed by cleaning. Flush out form tie holes, fill with dry pack mortar, or precast cement cone plugs secured in place with bonding agent.

Repair concealed formed surfaces, where possible, that contain defects that affect the durability of concrete. If defects cannot be repaired, remove and replace concrete.

Repair of Unformed Surfaces: Test unformed surfaces, such as monolithic slabs, for smoothness and verify surface plane to tolerances specified for each surface and finish. Correct low and high areas as herein specified. Test unformed surfaces slopped to drain for trueness of slope, in addition to smoothness using a template having required slope.

Repair finished unformed surfaces that contain defects which affect durability of concrete. Surface defects, as such, include crazing cracks in excess of 0.01 inch wide or which penetrate to reinforcement or completely through non-reinforced sections regardless of width, spalling, pop-outs, honeycomb, rock pockets, and other objectionable conditions.

Correct high areas in unformed surfaces by grinding, after concrete has cured at least 14 days.

Correct low areas in unformed surfaces during or immediately after completion of surface finishing operations by cutting out low areas and replacing with fresh concrete. Finish repaired areas to blend into adjacent concrete. Proprietary patching compounds may be used when acceptable to Engineer.

Repair defective areas, except random cracks and single holes not exceeding 1 inch diameter, by cutting out and replacing with fresh concrete. Remove defective areas to sound concrete with clean, square cuts and expose reinforcing steel with at least 3/4 inch clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding compound. Mix patching concrete of same materials to provide concrete of same type or class as original concrete. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.

Perform structural repairs with prior approval of Structural Engineer for method and procedure, using specified epoxy adhesive and mortar.

Repair methods not specified above may be used, subject to acceptance of Engineer.

**QUALITY CONTROL TESTING DURING CONSTRUCTION:**

Sampling and testing for quality control during placement of concrete may include the following, as directed by Engineer.

Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.

Slump: ASTM C 143, each type of concrete, and additional tests when concrete consistency seems to have changed.



Concrete Temperature: Test hourly when air temperature is 40 degrees F (4 degrees C) and below, and when 80 degrees F (27 degrees C) and above, and each time a set of compression test specimens are made.

Compression Test Specimen: ASTM C 31, one set of 3 standard cylinders for each compressive strength test, unless otherwise directed. Mold and store cylinders for laboratory cured test specimens except when field-cure test specimens are required.

Compressive Strength Tests: ASTM C 39, one set for each day's pour plus additional sets for each 50 cubic yards over and above the first 25 cubic yards of each concrete class placed in any one day; one specimen tested at 7 days, two specimens tested at 28 days.

When frequency of testing will provide less than 5 strength tests for a given class of concrete, conduct testing from at least 5 randomly selected batches or from each batch if fewer than 5 are used.

Test results will be reported in writing to Structural Engineer and Contractor within 24 hours after tests. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing service, concrete type and class, location of concrete batch in structure, design compressive strength at 28 days, concrete mix proportions and materials; compressive breaking strength and type of break for both 7-day tests and 28-day tests.

Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted but shall not be used as the sole basis for acceptance or rejection.

Additional Tests: The testing service will make additional tests of in-place concrete when test results indicate specified concrete strengths and other characteristics have not been attained in the structure, as directed by Engineer. Testing service may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed. Contractor shall pay for such tests when unacceptable concrete is verified.

END OF SECTION 03310



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

GEOTECHNICAL ENGINEERING REPORT

ENZOR STREET CORES  
PE PROJECT NO: 26038  
CALLLAWAY, FLORIDA

PREPARED FOR:

**PANHANDLE ENGINEERING, INC.**  
**600 OHIO AVENUE**  
**LYNN HAVEN, FLORIDA 32444**

**429 FLORIDA AVENUE**  
**LYNN HAVEN, FLORIDA 32444**  
**TELEPHONE (850) 258.0994**



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

October 6, 2021

Mr. Chris Forehand, P.E.  
Panhandle Engineering, Inc.  
600 Ohio Avenue  
Lynn Haven, FL. 32444

SUBJECT: Enzor Street Cores - Geotechnical Services  
**PE Job No: 26038**  
Callaway, Florida  
MEI Project No. M121-107-271

Dear Mr. Forehand:

This letter forwards the results of the asphalt cores performed along the existing Enzor Street in Callaway, Florida. A total of Three (3) 4-inch diameter asphalt cores were performed in the existing asphalt pavement at the locations shown on the attached Figure #1 to determine the type and thickness of the existing asphalt pavement. Below each asphalt core, a hand auger was extended to a depth of 5 feet below existing pavement grade to determine base and subgrade materials. Upon completion of our field testing, the samples were brought back to the office for visual inspection, classification and analysis by our engineering staff.

The attached Table #1 shows the average thickness and type of the asphaltic surface course and base course present at each location.

Location Number	Asphalt Thickness and Type (inches)	Base Course (inches)
C-1	2.0 inches (Type S-1)	5" Asphalt Base Course (ABC)
C-2	2 ¼ inches (Type S-1)	5.5" Asphalt Base Course (ABC)
C-3	1 ½ inches (Type S-1)	6" Asphalt Base Course (ABC)

**Groundwater Conditions**

Groundwater was encountered between 2.1 feet and 3.0 feet below existing grade at the time of our exploration (September 22, 2021), which was during a period of above normal seasonal rainfall and following a significant rainfall event. Groundwater levels will fluctuate with rainfall and could vary several feet during typical seasonal fluctuations. Larger fluctuations are possible under severe weather conditions. We recommend that the Contractor verify the actual groundwater levels at the time of construction to determine potential impacts groundwater will have on construction procedures.

### **Soil Conditions**

Beneath the asphalt pavement and asphalt base course (ABC), the subgrade soils generally encountered slightly silty fine sands to the boring termination depth of 5 feet below existing grade.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil strata encountered. The Logs of Boring should be reviewed for specific subsurface conditions at each boring location. The stratifications shown on the Logs of Boring represent the subsurface conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratifications represent the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

Please refer to the attached Logs of Borings presented as Figure #2 for a more detailed description of the soils encountered.

### **Recommendations**

Based on the existing conditions of the roadway described above, we recommend either installing structural overlay consisting of an approved FDOT superpave asphaltic concrete mix design or partial milling the existing pavement, install crack suppressant, leveling course, and then a structural overlay of an approved FDOT superpave asphaltic concrete mix design.

### **Warranty and Limitations of Study**

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied. Magnum Engineering, Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

We wish to point out that a geotechnical study is inherently limited in that the engineering recommendations are developed from information obtained from test borings that only depict subsurface conditions at the specific locations, times and depth shown on the logs. Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soils conditions to change from those described in this report.

This report is intended for use by the designers of this project. While we have no objections to it being provided for review by parties to this project, it is not a specification document and is not to be used as a part of the specifications. If desired, we can assist in the development of specifications for this project based upon our exploration.


The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions. If significant variations or changes are in evidence, it may be necessary to reevaluate the recommendations in this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect or if additional information becomes available, a review must be made by this office to determine if any modifications in the recommendations will be necessary.

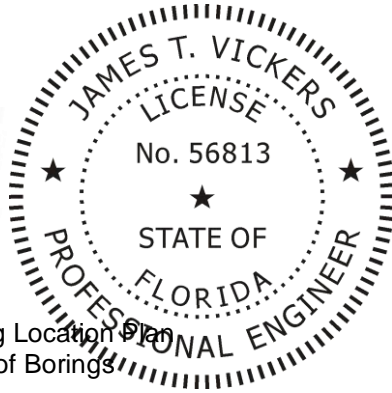
**Enzor Street Cores**  
**Panhandle Engineering, Inc.**  
**Page 3 of 3**

We hope this letter provides sufficient information for the present. If you have any questions or comments, please feel free to call.

Sincerely,  
**MAGNUM ENGINEERING. INC.**



JAMES T. VICKERS, P.E.  
Sr. Geotechnical Engineer  
Florida Registration # 56813



Attachments: Figure #1 – Boring Location Plan  
Figure #2 – Logs of Borings



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**BORING LOCATION PLAN**

**FIGURE # 1**



BK's Car Wash

AutoZone Auto Parts

Steak and Egg

Bay County Tax Collector

Tyndall Federal Credit Union

Good Shepherd Lutheran Early Learning Center

E-Z Mart

Google Earth

© 2021 Google



1000 ft

Old Hickory St

Lake Dr

Lance St

S Gay Ave

Georgia Ave

S Highline Dr

Enzor St

S Highline Dr

S Gay Ave

S Kimbrel Ave

Boat Race Rd

Boat Race Rd

Rd A

Rd B



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## **LOGS OF BORING**

**FIGURE # 2**





Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER C-1

<b>CLIENT</b> <u>Panhandle Engineering, Inc</u>	<b>PROJECT NAME</b> <u>Enzor Road Cores</u>
<b>PROJECT NUMBER</b> <u>M121-107-271</u>	<b>PROJECT LOCATION</b> <u>Callaway, Florida</u>
<b>DATE STARTED</b> <u>9/22/21</u> <b>COMPLETED</b> <u>9/22/21</u>	<b>GROUND ELEVATION</b> _____ <b>HOLE SIZE</b> _____
<b>DRILLING CONTRACTOR</b> <u>GeoDrill Tech, LLC</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>CORE MACHINE/HAND AUGER</u>	∇ <b>DEPTH TO GROUNDWATER AT TIME OF DRILLING</b> <u>3.0 ft</u>
<b>LOGGED BY</b> <u>J. Governale</u> <b>CHECKED BY</b> <u>J. Vickers</u>	<b>ESTIMATED SEASONAL HIGH GW</b> <u>---</u>
<b>NOTES</b> _____	<b>AFTER DRILLING</b> <u>---</u>

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Type SP-12.5 Asphaltic Concrete Pavement (2" thick)										
		Asphalt Base Course (5" thick)										
1		Brown Slightly Silty Fine SAND (SP-SM)										
2												
3		Tan/Gray Slightly Silty Fine SAND (SP-SM)										
4												
5		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS ENZOR ROAD CORES.GPJ GINT STD US LAB.GDT 9/28/21



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER C-2

<b>CLIENT</b> <u>Panhandle Engineering, Inc</u>	<b>PROJECT NAME</b> <u>Enzor Road Cores</u>
<b>PROJECT NUMBER</b> <u>M121-107-271</u>	<b>PROJECT LOCATION</b> <u>Callaway, Florida</u>
<b>DATE STARTED</b> <u>9/22/21</u> <b>COMPLETED</b> <u>9/22/21</u>	<b>GROUND ELEVATION</b> _____ <b>HOLE SIZE</b> _____
<b>DRILLING CONTRACTOR</b> <u>GeoDrill Tech, LLC</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>CORE MACHINE/HAND AUGER</u>	▽ <b>DEPTH TO GROUNDWATER AT TIME OF DRILLING</b> <u>2.1 ft</u>
<b>LOGGED BY</b> <u>J. Governale</u> <b>CHECKED BY</b> <u>J. Vickers</u>	<b>ESTIMATED SEASONAL HIGH GW</b> <u>---</u>
<b>NOTES</b> _____	<b>AFTER DRILLING</b> <u>---</u>

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Type SP-12.5 Asphaltic Concrete Pavement (2 1/4" thick)										
		Asphalt Base Course (5 1/2" thick)										
1		Gray/Brown Slightly Silty Fine SAND (SP-SM)										
2	▽											
3												
4												
5		Boring Termination Depth at 5.0 feet.										

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Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

**BORING NUMBER C-3**

**CLIENT** Panhandle Engineering, Inc      **PROJECT NAME** Enzor Road Cores  
**PROJECT NUMBER** M121-107-271      **PROJECT LOCATION** Callaway, Florida  
**DATE STARTED** 9/22/21      **COMPLETED** 9/22/21      **GROUND ELEVATION** \_\_\_\_\_      **HOLE SIZE** \_\_\_\_\_  
**DRILLING CONTRACTOR** GeoDrill Tech, LLC      **GROUND WATER LEVELS:**  
**DRILLING METHOD** CORE MACHINE/HAND AUGER      ∇ **DEPTH TO GROUNDWATER AT TIME OF DRILLING** 2.8 ft  
**LOGGED BY** J. Governale      **CHECKED BY** J. Vickers      **ESTIMATED SEASONAL HIGH GW** ---  
**NOTES** \_\_\_\_\_      **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Type SP-12.5 Asphaltic Concrete Pavement (1 1/2" thick)										
		Asphalt Base Course (6" thick)										
1		Gray/Brown Slightly Silty Fine SAND (SP-SM)										
2												
3												
4												
5		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS ENZOR ROAD CORES.GPJ GINT STD US LAB.GDT 9/28/21



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**


GEOTECHNICAL ENGINEERING REPORT

CALLAWAY SPORTS COMPLEX  
CALLAWAY, FLORIDA  
PE PROJECT #26027

PREPARED FOR:

**MR. CHRIS FOREHAND, P.E.**  
**PANHANDLE ENGINEERING, INC.**  
**3005 SOUTH HIGHWAY 77**  
**LYNN HAVEN, FLORIDA 32444**

**1026 PIERSON DRIVE**  
**LYNN HAVEN, FLORIDA 32444**  
**TELEPHONE (850) 258.0994**



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

May 14, 2020

Mr. Chris Forehand, P.E.  
Panhandle Engineering, Inc.  
3005 South Highway 77  
Lynn Haven, Florida 32444

SUBJECT: Callaway Sports Complex Loop Road - Geotechnical Services  
Callaway, Florida  
MEI Project No. M120-107-211

Dear Mr. Forehand:

This letter forwards the results of our Geotechnical exploration for the proposed development. Our exploration consisted of Three (3) 5-foot deep hand auger borings in the proposed loop road area. The subsurface exploration was conducted to provide information needed in the design of an effective pavement system for the referenced development.

Upon completion of our field testing, the samples were brought back to the office for visual inspection, classification, and analysis by our engineering staff.

### **Project Information**

The subject site is located at the existing Callaway Sports Complex which is north of State Road 22 on Callaway Parkway in Callaway, Florida. Based on the site plan provided, we understand that a loop road will connect the parking area on the south side of the community center to an existing paved roadway on the north side of the community center. At the time of our exploration, the proposed loop road area was undeveloped and clear with the exception of a few pine trees. Based on visual inspection, the site appeared relatively level with less than 2 feet of grade change across the site.

If any of the above information is incorrect, please inform Magnum Engineering, Inc. so that we can review and update our recommendations, as needed.

### **Subsurface Conditions**

Figure #1 show the Boring Location Plan and Figure #2 shows the Logs of Borings for the Hand Auger borings HA-1 thru HA-3. The test locations were established in the field using a 100-foot tape and estimating right angles with reference to existing landmarks, thus, the test location should be considered approximate.

The auger borings (HA-1 thru HA-3) generally encountered tan and gray slightly silty fine sands from the ground surface to the boring termination depth of 5-feet below existing grade.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil strata encountered. The Logs of Boring should be reviewed for specific subsurface conditions at each boring location. The stratifications shown on the Logs of Boring represent the subsurface conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratifications represent the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

Please refer to the attached Logs of Borings presented as Figure #2 for a more detailed description of the soils encountered.

**Groundwater Conditions**

Groundwater was encountered from approximately 3.3 feet to 4.1 feet below existing grade at the time of drilling (May 4, 2020), which was during a period of slightly below normal seasonal rainfall. By definition, the normal seasonal high groundwater table elevation is the highest level of the saturated zone in the soil during a year with normal rainfall. The procedure used in estimating the seasonal high groundwater table is based on adjusting the existing groundwater table encountered upward or downward, taking into consideration factors such as antecedent rainfall, redoximorphic features (identifying soil mottling) and vegetative indicators. Based on the resources and methodology provided, **we estimate the seasonal high groundwater levels at each boring location as shown in the following Table #1.**

**TABLE #1**

<b>LOCATION</b>	<b>DEPTH TO EXISTING GROUNDWATER TABLE (ft)</b>	<b>DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE (ft)</b>
HA-1	3.3 feet	2.5 feet
HA-2	3.7 feet	2.5 feet
HA-3	4.1 feet	3.0 feet

Groundwater levels will fluctuate with rainfall and could vary several feet during typical seasonal fluctuations. Larger fluctuations are possible under severe weather conditions. We recommend that the Contractor verify the actual groundwater levels at the time of construction to determine potential impacts groundwater will have on construction procedures.

**CONCLUSIONS AND RECOMMENDATIONS**

**General**

The following geotechnical related design recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions encountered. If there are any changes in these project criteria, including project location on the site, a review should be made by Magnum Engineering to determine if modifications to the recommendations are warranted.

Once final design plans and specifications are available, a general review by Magnum Engineering is recommended as a means to check that the evaluations made in preparation of this report are correct and that earthwork recommendations are properly interpreted and implemented.

**Pavements**

Initially, the pavement areas should be cleared, grubbed, and stripped of topsoil and other deleterious material (i.e. stumps, roots, etc.).

Prior to placing fill soils, where applicable, the top of the ground surface should be compacted to a minimum soil density of 95% of the Modified Proctor Test (ASTM D1557). Structural fill soils should be placed in maximum 12-inch lifts and compacted to a minimum soil density of 95% of the Modified Proctor Test (ASTM D1557). The top 12 inches of subgrade should be compacted to a minimum soil density of 98% of the Modified Proctor Test (ASTM D1557). The top 12 inches of subgrade should have a minimum LBR value of 40. We recommend that structural fill soils, where planned, have a minimum LBR of 40.

Based on the subsurface conditions encountered in the test borings, we recommend using a graded aggregate base (i.e. limerock or crushed concrete). The base course should be compacted to a minimum soil density of 98% of the Modified Proctor Test (ASTM D1557). The base course should have a minimum LBR value of 100.

Without benefit of traffic loads, volumes, and serviceability parameters, a pavement section cannot be designed. However, typical parking lots and drives in the local area generally consist of a minimum of 1½ inches of FDOT Superpave Mix SP-12.5 asphaltic concrete and a minimum of 6 inches of base. Moderate duty traffic areas (e.g. main entrance areas/loading dock areas) typically have a minimum pavement section consisting of 2 inches of FDOT Superpave Mix SP-12.5 asphaltic concrete and 8 inches of base. The above sections represent minimum thicknesses representative of typical, local construction practices, and as such periodic maintenance should be anticipated. All pavement materials and construction procedures should conform to FDOT and/or appropriate city or county requirements

While specific traffic loads and volumes for the project have not been provided, we are providing recommended light-duty and medium-duty pavement sections, which have been successfully utilized for this type of commercial development in the Northwest Florida area.

Light Duty (Automobile Parking)

- 1 ½ inches Asphalt Concrete (FDOT SP-12.5 or SP-9.5)
- 6 inches Crushed Limerock or Graded Aggregate Base (minimum LBR 100)
- 12 inches stabilized subgrade (minimum LBR 40)

Medium Duty (Entrance Lanes/loading dock areas)

- 2 inches Asphaltic Concrete (FDOT SP-12.5)
- 8 inches Crushed Limerock or Graded Aggregate Base (minimum LBR 100)
- 12 inches Stabilized Subgrade (minimum LBR 40)

The above recommended pavement sections represent minimum design thicknesses and, as such, periodic maintenance should be anticipated. Also, these recommended pavement sections should be confirmed or modified by your Civil Engineer, based on actual traffic and the owner's requirements. The pavement section materials and construction should comply with the Florida DOT and local municipality requirements

**Warranty and Limitations of Study**

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied. Magnum Engineering, Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soils conditions to change from those described in this report.

This report is intended for use by the designers of this project. While we have no objections to it being provided for review by parties to this project, it is not a specification document and is not to be used as a part of the specifications. If desired, we can assist in the development of specifications for this project based upon our exploration.

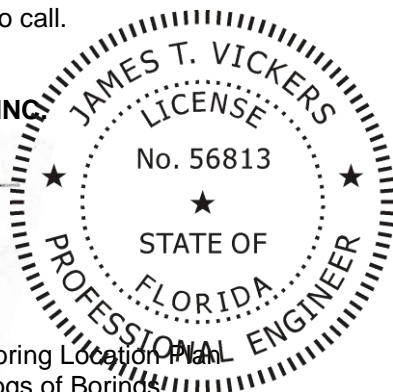
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly carried out. If significant variations or changes are in evidence, it may be necessary to reevaluate the recommendations in this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect or if additional information becomes available, a review must be made by this office to determine if any modifications in the recommendations will be necessary.

We hope this letter provides sufficient information for the present. If you have any questions or comments, please feel free to call.

Sincerely,  
**MAGNUM ENGINEERING, INC.**

  
JAMES T. VICKERS, P.E.  
Sr. Geotechnical Engineer  
Florida Registration # 56813



Attachments: Figure #1 – Boring Location Plan  
Figure #2 – Logs of Borings



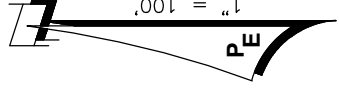


**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

## **BORING LOCATION PLAN**

**FIGURE # 1**

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



CSP  
A

CONCEPTUAL SITE PLAN  
LOOP ROAD  
CALLAWAY SPORTS COMPLEX  
CALLAWAY, FLORIDA

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 3005 South Highway 77 Lynn Haven, Florida 32444  
 (850) 763-5200 Fax (850) 769-0730 www.panhandleengineering.com

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CAD FILE: 26027-CSP.dwg
DWN BY: cak
DATE: AUGUST 2019
SHEET NO: A
PROJECT NUMBER 26027

PREPARED WITHOUT BENEFIT OF TOPO OR BOUNDARY SURVEY AND SOIL PERCOLATION TEST, THEREFORE SITE LAYOUT & STORMWATER BASIN SIZING IS PRELIMINARY.



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

## **LOGS OF BORING**

**FIGURE # 2**



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-1

CLIENT Panhandle Engineering, Inc. PROJECT NAME Callaway Sports Complex  
 PROJECT NUMBER M120-107-211 PROJECT LOCATION Callaway, Florida  
 DATE STARTED 5/4/20 COMPLETED 5/4/20 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_  
 DRILLING CONTRACTOR GeoDrill Tech, LLC GROUND WATER LEVELS:  
 DRILLING METHOD Hand Auger Boring ∇ DEPTH TO GROUNDWATER AT TIME OF DRILLING 3.3 ft  
 LOGGED BY J. Governale CHECKED BY J. Vickers ESTIMATED SEASONAL HIGH GWL ---  
 NOTES \_\_\_\_\_ AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Tan/Gray Slightly Silty Fine SAND (SP-SM)										
1												
2												
3												
4												
5												
		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS CALLAWAY SPORTS COMPLEX.GPJ GINT STD US LAB.GDT 5/5/20

AU



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-2

CLIENT Panhandle Engineering, Inc. PROJECT NAME Callaway Sports Complex  
 PROJECT NUMBER M120-107-211 PROJECT LOCATION Callaway, Florida  
 DATE STARTED 5/4/20 COMPLETED 5/4/20 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_  
 DRILLING CONTRACTOR GeoDrill Tech, LLC GROUND WATER LEVELS:  
 DRILLING METHOD Hand Auger Boring ∇ DEPTH TO GROUNDWATER AT TIME OF DRILLING 3.7 ft  
 LOGGED BY J. Governale CHECKED BY J. Vickers ESTIMATED SEASONAL HIGH GWL ---  
 NOTES \_\_\_\_\_ AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Tan/Gray Slightly Silty Fine SAND (SP-SM)										
1												
2												
3												
4												
5												
		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS CALLAWAY SPORTS COMPLEX.GPJ GINT STD US LAB.GDT 5/5/20

AU



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-3

<b>CLIENT</b> <u>Panhandle Engineering, Inc.</u>	<b>PROJECT NAME</b> <u>Callaway Sports Complex</u>
<b>PROJECT NUMBER</b> <u>M120-107-211</u>	<b>PROJECT LOCATION</b> <u>Callaway, Florida</u>
<b>DATE STARTED</b> <u>5/4/20</u> <b>COMPLETED</b> <u>5/4/20</u>	<b>GROUND ELEVATION</b> _____ <b>HOLE SIZE</b> _____
<b>DRILLING CONTRACTOR</b> <u>GeoDrill Tech, LLC</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>Hand Auger Boring</u>	▽ <b>DEPTH TO GROUNDWATER AT TIME OF DRILLING</b> <u>4.1 ft</u>
<b>LOGGED BY</b> <u>J. Governale</u> <b>CHECKED BY</b> <u>J. Vickers</u>	<b>ESTIMATED SEASONAL HIGH GW</b> <u>---</u>
<b>NOTES</b> _____	<b>AFTER DRILLING</b> <u>---</u>

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Tan Slightly Silty Fine SAND (SP-SM)										
1												
2												
3												
4												
5												
		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS CALLAWAY SPORTS COMPLEX.GPJ GINT STD US LAB.GDT 5/5/20

AU



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

**GEOTECHNICAL ENGINEERING REPORT**

**IMPERIAL DRIVE IMPROVEMENTS  
CALLAWAY, FLORIDA  
PE PROJECT #26035**

**PREPARED FOR:**

**MR. CHRIS FOREHAND, P.E.  
PANHANDLE ENGINEERING, INC  
3005 SOUTH HIGHWAY 77  
LYNN HAVEN, FLORIDA 32444**

**1026 PIERSON DRIVE  
LYNN HAVEN, FLORIDA 32444  
TELEPHONE (850) 258.0994**



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

July 30, 2021

Mr. Chris Forehand, P.E.  
Panhandle Engineering, Inc.  
3005 South Highway 77  
Lynn Haven, Florida 32444

SUBJECT: Imperial Drive Improvements - Geotechnical Services  
Callaway, Florida  
PE Project No: 26035  
MEI Project No. M121-107-265

Dear Mr. Forehand:

This letter forwards the results of our Geotechnical exploration for the proposed development. Our exploration consisted of Three (3) 4-feet to 5-feet deep hand auger borings in the proposed pavement areas. The subsurface exploration was conducted to provide soil related information needed in the design of an effective pavement section for the referenced development..

Upon completion of our field testing, the samples were brought back to the office for visual inspection, classification, and analysis by our engineering staff.

**Project Information**

The subject site is located on an undeveloped easement that is east of the intersection of Seminole Drive and Imperial Drive in Callaway, Florida. At the time of our exploration the site was undeveloped and clear with the exception of surficial grasses. Based on visual inspection, the site appeared relatively level with less than 3 feet of grade change across the site.

We understand that a new two-lane asphaltic concrete roadway will be constructed. No grading information was available at the writing of this report. For engineering purposes, we estimate less than 3 feet of fill will be required to achieve finished pavement grades.

If any of the above information is incorrect, please inform Magnum Engineering, Inc. so that we can review and update our recommendations, as needed.

**Subsurface Conditions**

Figure #1 show the Boring Location Plan and Figure #2 shows the Logs of Borings for the Hand Auger borings HA-1 thru HA-3. The test locations were established in the field using a 100-foot tape and estimating right angles with reference to existing landmarks, thus, the test location should be considered approximate.



**Imperial Drive Improvements – Geotechnical Services  
Callaway, Florida  
Page 2 of 4**

The auger borings (HA-1 thru HA-3) generally encountered brown, tan, and gray silty fine sands and clayey fine sands from the ground surface to the boring termination depth of 4-feet to 5-feet below existing grade with the exception of a gray clay encountered between 0.5 feet and 3 feet below existing grade in boring HA-1 and 4 inches of #57 stone located at the surface of HA-2.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil strata encountered. The Logs of Boring should be reviewed for specific subsurface conditions at each boring location. The stratifications shown on the Logs of Boring represent the subsurface conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratifications represent the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

**Groundwater Conditions**

Groundwater was not encountered between 2.6 and 2.7 feet below existing grade at the time of drilling (July 16, 2021), which was during a period of slightly above normal seasonal rainfall. Large fluctuations are possible under severe weather conditions. We recommend that the Contractor verify the actual groundwater levels at the time of construction to determine potential impacts groundwater will have on construction procedures.

**Based on the resources and methodology provided, we have estimated the seasonal high groundwater level at each boring location. The following Table #1 presents the groundwater conditions at each boring location.**

**Table #1**

<b>Location</b>	<b>Depth to Groundwater Level below existing grade (in feet)</b>	<b>Depth to Estimated Seasonal High Groundwater Level below existing grade (in feet)</b>
<b>HA-1</b>	<b>2.7 feet</b>	<b>2.5 feet</b>
<b>HA-2</b>	<b>2.7 feet</b>	<b>2.5 feet</b>
<b>HA-3</b>	<b>2.6 feet</b>	<b>2.5 feet</b>

Large fluctuations are possible under severe weather conditions. We recommend that the Contractor verify the actual groundwater levels at the time of construction to determine potential impacts groundwater will have on construction procedures.

**CONCLUSIONS AND RECOMMENDATIONS**

**General**

The following geotechnical related design recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions encountered. If there are any changes in these project criteria, including project location on the site, a review should be made by Magnum Engineering to determine if modifications to the recommendations are warranted.

Once final design plans and specifications are available, a general review by Magnum Engineering is recommended as a means to check that the evaluations made in preparation of this report are correct and that earthwork recommendations are properly interpreted and implemented.

### **Pavements**

Initially, the pavement areas should be cleared, grubbed, and stripped of topsoil and other deleterious material (i.e. stumps, roots, etc.).

Care should be exercised in performing the site preparation and grading procedures due to the presence of silty fine sands and clay near the existing ground surface over portions of the roadway. Excessive vibrations could result in pumping conditions which may result in the need for over-excavation and replacement.

Excess disturbance of the silty sands de-grade the strength characteristics of the soil and may result in an unsuitable soil which will require over-excavation and replacement with clean fine sands.

Prior to placing fill soils, where applicable, the top of the ground surface should be compacted to a minimum soil density of 95% of the Modified Proctor Test (ASTM D1557). Structural fill soils should be placed in maximum 12-inch lifts and compacted to a minimum soil density of 95% of the Modified Proctor Test (ASTM D1557). The top 12 inches of subgrade should be compacted to a minimum soil density of 98% of the Modified Proctor Test (ASTM D1557). The top 12 inches of subgrade should have a minimum LBR value of 40. We recommend that structural fill soils, where planned, have a minimum LBR of 40.

Based on the subsurface conditions encountered in the test borings, we recommend using a graded aggregate base (i.e. limerock or crushed concrete). The base course should be compacted to a minimum soil density of 98% of the Modified Proctor Test (ASTM D1557).

Without benefit of traffic loads, volumes, and serviceability parameters, a pavement section cannot be designed. However, typical roadways in the local area generally consist of a minimum of 1½ inches of FDOT Superpave Mix SP-12.5 asphaltic concrete and a minimum of 6 inches of base. Moderate duty traffic areas (e.g. main entrance areas) typically have a minimum pavement section consisting of 2 inches of FDOT Superpave Mix SP-12.5 asphaltic concrete and 8 inches of base. The above sections represent minimum thicknesses representative of typical, local construction practices, and as such periodic maintenance should be anticipated. All pavement materials and construction procedures should conform to FDOT and/or appropriate city or county requirements

Preparation of the subgrade soils for the pavement area should be prepared in general accordance with the site soil preparation recommendations described for the building area. While specific traffic loads and volumes for the project have not been provided, we are providing recommended light-duty and medium-duty pavement sections, which have been successfully utilized for this type of commercial development in the Northwest Florida area.

#### Light Duty

- 1 ½ inches Asphalt Concrete (FDOT SP-12.5)
- 6 inches Crushed Limerock or Graded Aggregate Base
- 12 inches stabilized subgrade (minimum LBR 40)

#### Medium Duty (Entrance Lanes)

- 2 inches Asphaltic Concrete (FDOT SP-12.5)
- 8 inches Crushed Limerock or Graded Aggregate Base
- 12 inches Stabilized Subgrade (minimum LBR 40)

The above recommended pavement sections represent minimum design thicknesses and, as such, periodic maintenance should be anticipated. Also, these recommended pavement sections should be confirmed or modified by your Civil Engineer, based on actual traffic and the owner's requirements. The pavement section materials and construction should comply with the Florida DOT and local municipality requirements

**If the seasonal high groundwater level is less than 24 inches below the bottom of the base course we recommend using the medium duty pavement section.**

**Warranty and Limitations of Study**

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied. Magnum Engineering, Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soils conditions to change from those described in this report.

This report is intended for use by the designers of this project. While we have no objections to it being provided for review by parties to this project, it is not a specification document and is not to be used as a part of the specifications. If desired, we can assist in the development of specifications for this project based upon our exploration.

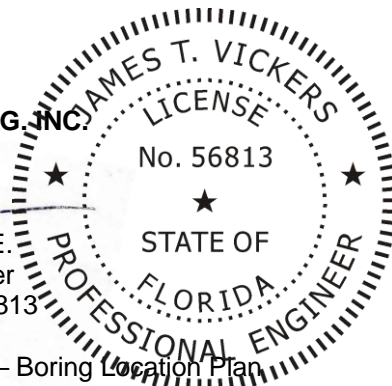
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly carried out. If significant variations or changes are in evidence, it may be necessary to reevaluate the recommendations in this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect or if additional information becomes available, a review must be made by this office to determine if any modifications in the recommendations will be necessary.

We hope this letter provides sufficient information for the present. If you have any questions or comments, please feel free to call.

Sincerely,  
**MAGNUM ENGINEERING, INC.**

  
JAMES T. VICKERS, P.E.  
Sr. Geotechnical Engineer  
Florida Registration # 56813



Attachments: Figure #1 – Boring Location Plan  
Figure #2 – Logs of Borings

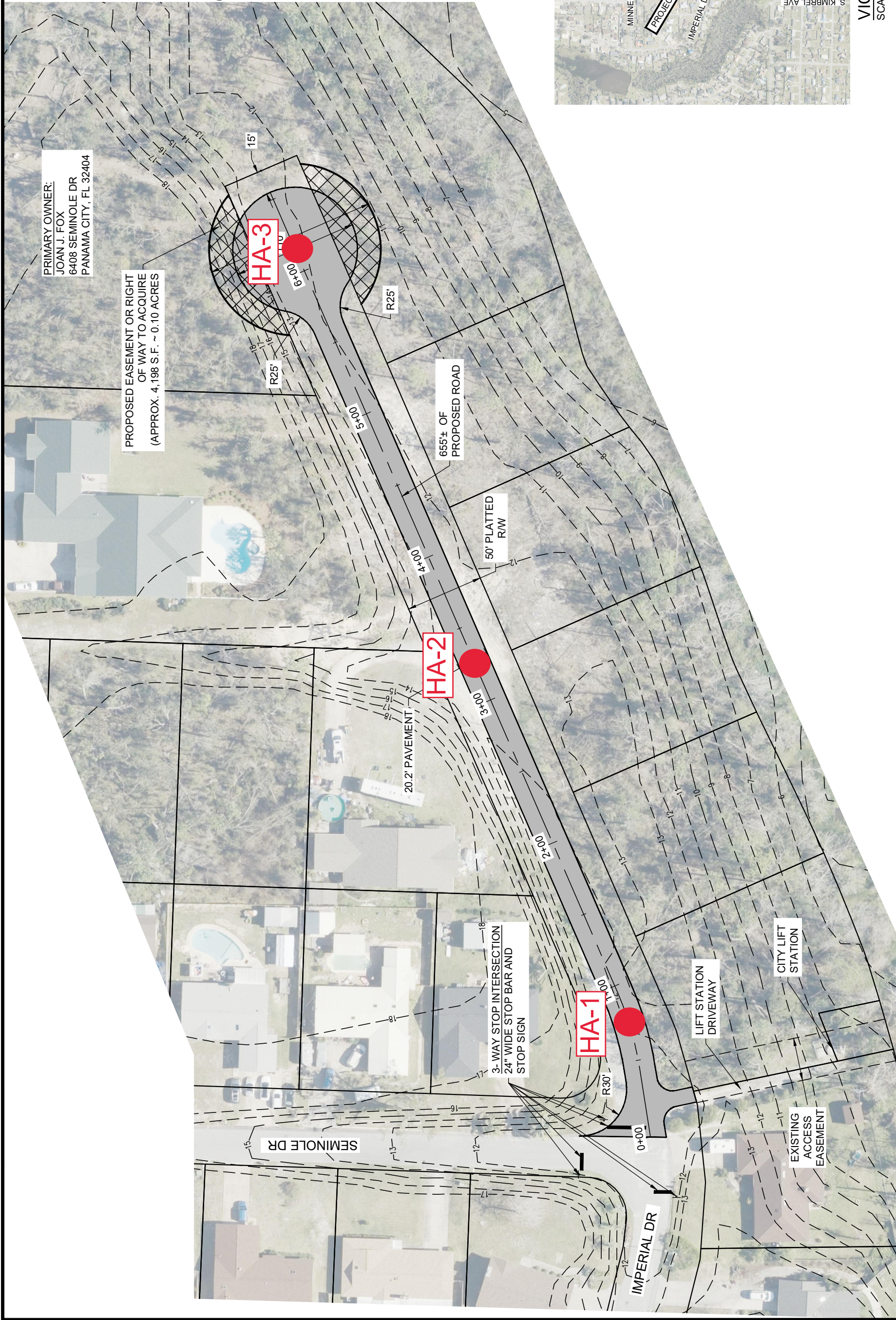


**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

# **BORING LOCATION PLAN**

**FIGURE # 1**

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



PRIMARY OWNER:  
 JOAN J. FOX  
 6408 SEMINOLE DR  
 PANAMA CITY, FL 32404

PROPOSED EASEMENT OR RIGHT  
 OF WAY TO ACQUIRE  
 (APPROX. 4,198 S.F. ~ 0.10 ACRES)

655'± OF  
 PROPOSED ROAD

50' PLATTED  
 R/W

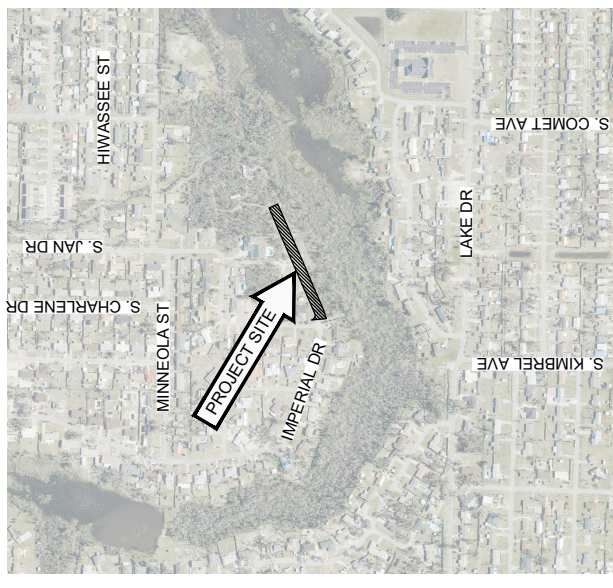
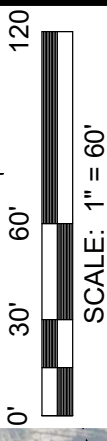
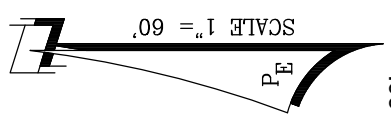
20.2' PAVEMENT

3-WAY STOP INTERSECTION  
 24" WIDE STOP BAR AND  
 STOP SIGN

LIFT STATION  
 DRIVEWAY

CITY LIFT  
 STATION

EXISTING  
 ACCESS  
 EASEMENT



VICINITY MAP  
 SCALE: 1" = 1,000'

CONCEPTUAL ROADWAY ALIGNMENT  
 IMPERIAL DRIVE IMPROVEMENTS  
 CITY OF CALLAWAY  
 CALLAWAY, FLORIDA

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 600 Ohio Avenue Lynn Haven, Florida 32444  
 (850)763-5200 Fax (850)768-0730 www.panhandleengineering.com

SCALE: AS NOTED  
 DESIGNED BY: CBF  
 DRAWN BY: JAH  
 REVIEWED BY: CBF  
 ISSUE DATE: APRIL 2021  
 ACAD FILE NAME: 260.35csp.dwg

REV	DATE	MM	DD	DESCRIPTION

DATE: Monday, April 26, 2021 6:34:36 AM  
 ID: Jim Hipskind  
 File: P:\26035 ccf\Imperial Drive\1 CIVIL\Folder\Drawings\CSP\26035csp.dwg

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DPR CERTIFICATION No:  
 EB-7806  
 SHEET NO: 1  
 PROJECT NUMBER:  
 26035



**MAGNUM ENGINEERING INC**  
**GEOTECHNICAL ENGINEERING CONSULTANTS**

# **LOGS OF BORING**

**FIGURE # 2**



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-1

CLIENT Panhandle Engineering, Inc. PROJECT NAME Imperial Drive

PROJECT NUMBER M121-107-265 PROJECT LOCATION Callaway, Florida

DATE STARTED 7/16/21 COMPLETED 7/16/21 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_ GROUND WATER LEVELS:  
 ▽ DEPTH TO GROUNDWATER AT TIME OF DRILLING 2.7 ft

DRILLING METHOD Hand Auger Boring ESTIMATED SEASONAL HIGH GWT ---

LOGGED BY B. Vickers CHECKED BY J. Vickers AFTER DRILLING ---

NOTES \_\_\_\_\_

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Tan Silty Fine SAND (SM)										
1		Gray CLAY (CL)										
2												
3		Tan/Light Gray Clayey Fine SAND (SC)										
4		Boring Termination Depth at 4.0 feet.										

GEOTECH BH COLUMNS IMPERIAL DRIVE.GPJ GINT STD US LAB.GDT 8/1/21



Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-2

**CLIENT** Panhandle Engineering, Inc. **PROJECT NAME** Imperial Drive  
**PROJECT NUMBER** M121-107-265 **PROJECT LOCATION** Callaway, Florida  
**DATE STARTED** 7/16/21 **COMPLETED** 7/16/21 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_  
**DRILLING CONTRACTOR** \_\_\_\_\_ **GROUND WATER LEVELS:**  
**DRILLING METHOD** Hand Auger Boring  $\nabla$  **DEPTH TO GROUNDWATER AT TIME OF DRILLING** 2.7 ft  
**LOGGED BY** B. Vickers **CHECKED BY** J. Vickers **ESTIMATED SEASONAL HIGH GWT** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		#57 Stone (4" thick)										
		Dark Brown Silty Fine SAND (SM)										
		Tan Slightly Silty Fine SAND (SP-SM)										
1												
2												
3	$\nabla$											
4												
5												
		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS IMPERIAL DRIVE.GPJ GINT STD US LAB.GDT 8/1/21





Magnum Engineering, Inc.  
 1026 Pierson Drive  
 Lynn Haven, Florida 32444  
 Telephone: 8502658332

# BORING NUMBER HA-3

**CLIENT** Panhandle Engineering, Inc. **PROJECT NAME** Imperial Drive  
**PROJECT NUMBER** M121-107-265 **PROJECT LOCATION** Callaway, Florida  
**DATE STARTED** 7/16/21 **COMPLETED** 7/16/21 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_  
**DRILLING CONTRACTOR** \_\_\_\_\_ **GROUND WATER LEVELS:**  
**DRILLING METHOD** Hand Auger Boring  $\nabla$  **DEPTH TO GROUNDWATER AT TIME OF DRILLING** 2.6 ft  
**LOGGED BY** B. Vickers **CHECKED BY** J. Vickers **ESTIMATED SEASONAL HIGH GWT** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Tan Slightly Silty Fine SAND (SP-SM)										
1												
2												
3		Tan Clayey Fine SAND (SC)	AU									
4												
5		Boring Termination Depth at 5.0 feet.										

GEOTECH BH COLUMNS IMPERIAL DRIVE.GPJ GINT STD US LAB.GDT 8/1/21

# ENZOR ST, IMPERIAL DR, & LOOP RD PAVING IMPROVEMENTS CALLAWAY, FLORIDA

PREPARED FOR:  
CITY OF CALLAWAY



ADDRESS  
6601 EAST HIGHWAY 22  
CALLAWAY, FLORIDA 32404  
PHONE: (850) 871-6000

CITY OFFICIALS:

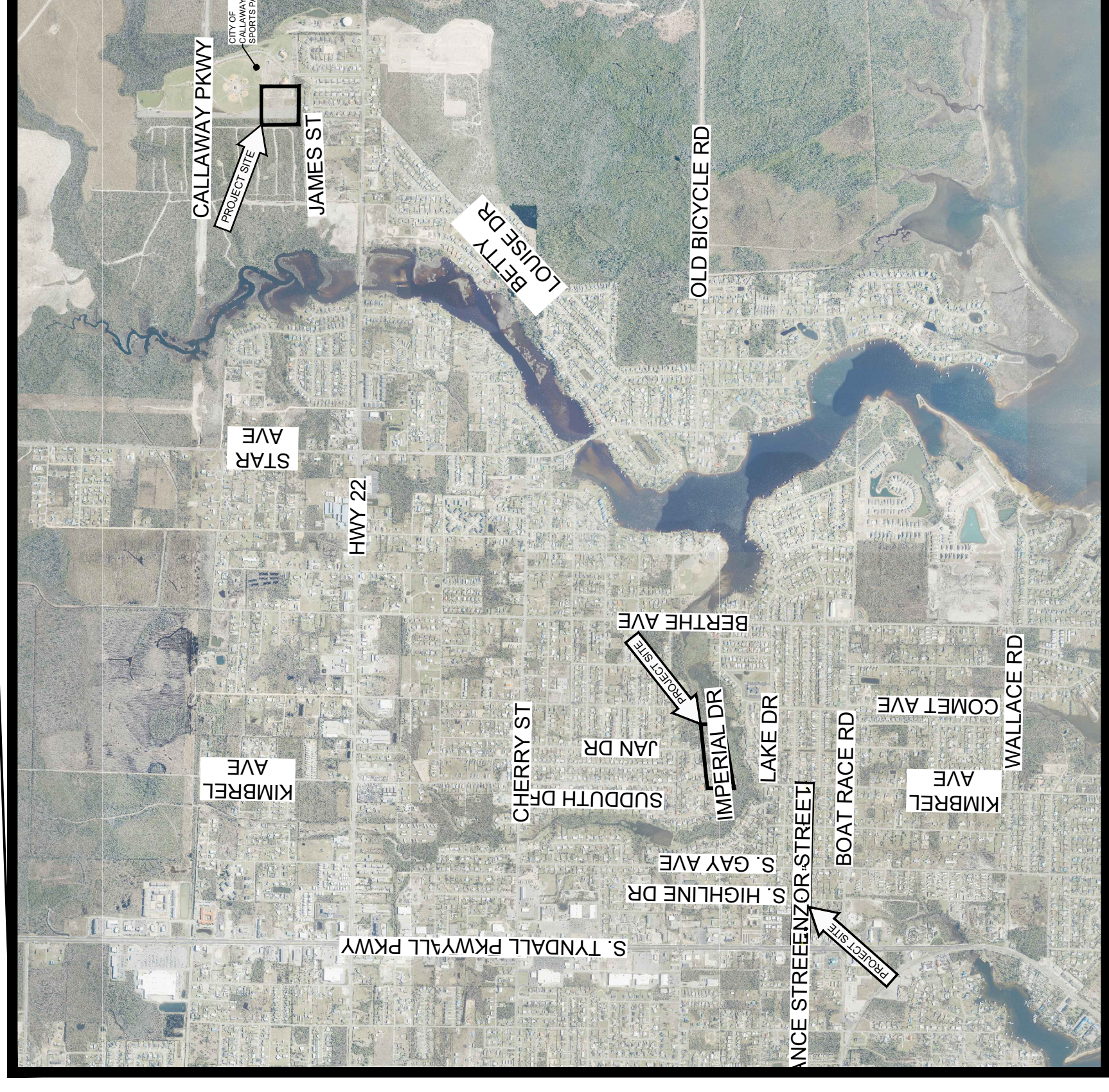
MAYOR PAMN HENDERSON  
COMMISSIONER SCOTT DAVIS  
COMMISSIONER DAVID GRIGGS  
COMMISSIONER BOB PELLETIER  
COMMISSIONER FRANK MANCINELLI

CITY MANAGER KEITH "EDDIE" COOK  
PUBLIC WORDS DIRECTOR BILL FRYE  
CITY CLERK JANICE PETERS

PREPARED BY:



ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
600 Ohio Avenue Lynn Haven, Florida 32444  
(850) 763-5200 www.panhandleengineering.com



VICINITY MAP  
0' 1000' 2000' 4000'  
SCALE: 1" = 2000'

RELEASED FOR BIDDING  
PURPOSES ONLY  
NOT RELEASED FOR  
CONSTRUCTION

APRIL 2022

LENGTH OF PROJECT	
	MILES
ENZOR STREET	2.597
IMPERIAL DRIVE	500
LOOP ROAD	645

KEY SHEET REVISIONS	
DATE	DESCRIPTION



DRAWING INDEX  
No. - TITLE

0(CVT)  
K1 - KEY SHEET (FOR ALL THREE LOCATIONS)

PROJECT No. 26038 ~ ENZOR ST

- E1 - EXISTING CONDITIONS
- E2 - EXISTING CONDITIONS
- E3 - EXISTING CONDITIONS
- E4 - PLAN VIEW
- E5 - PLAN VIEW
- E6 - PLAN VIEW
- E7 - EROSION CONTROL NOTES and DETAILS
- E8 - FDOT MAINTENANCE OF TRAFFIC DETAILS
- E9 - FDOT SIGNAGE DETAILS
- E10 - UTILITY NOTES and TRAFFIC DETAILS
- E11 - TYPICAL SECTIONS and DETAILS
- E12 - GENERAL NOTES

PROJECT No. 26035 ~ IMPERIAL DRIVE

- I1 - EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN
- I2 - ROADWAY PLAN AND PROFILE
- I3 - UTILITY PLAN
- I4 - GRADING AND DRAINAGE PLAN
- I5 - GRADING AND DRAINAGE PLAN
- I6-I9 - CROSS SECTIONS
- I10 - EROSION CONTROL DETAILS
- I11 - CONSTRUCTION DETAILS
- I12 - UTILITY DETAILS
- I13 - UTILITY DETAILS

PROJECT No. 26027 ~ LOOP ROAD

- L1 - EXISTING CONDITIONS and DEMOLITION PLAN
- L2 - SITE PLAN
- L3 - GRADING AND DRAINAGE PLAN
- L4 - EROSION CONTROL PLAN
- L5 - CONSTRUCTION DETAILS
- L6 - CONSTRUCTION DETAILS
- L7 - STORMWATER POLLUTION PREVENTION PLAN

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, "STANDARD PLANS" - FY 2019-20 AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON THE "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:  
<https://www.fdot.gov/roadway/ds/18/STDS.shtm>

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE:  
<https://www.fdot.gov/programmanagement/implemented/specbooks/default.shtm>

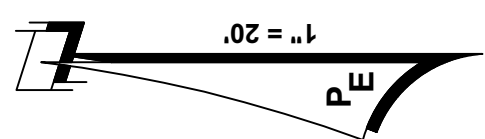
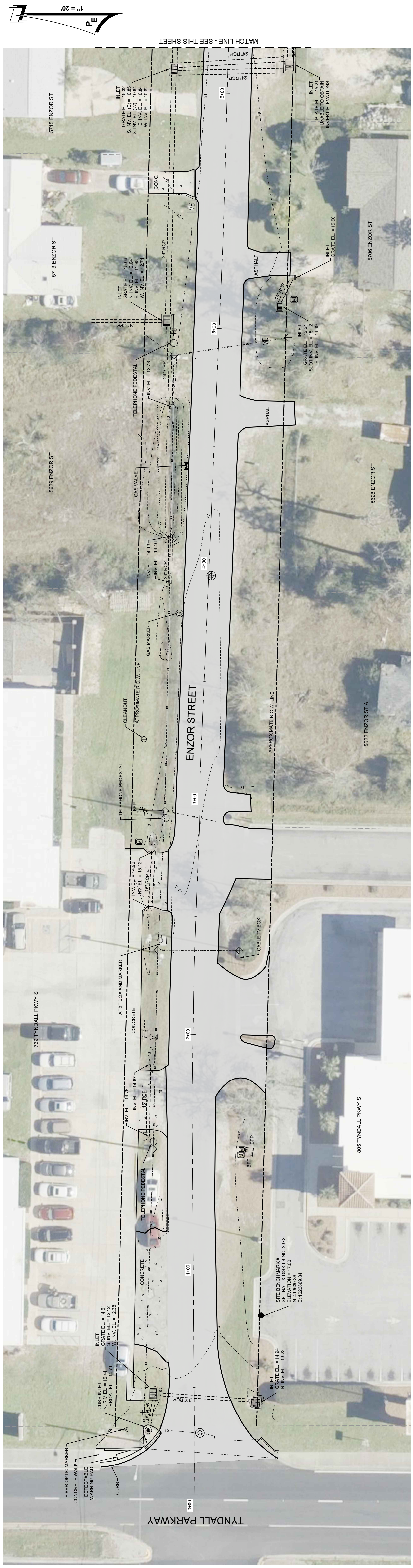
Always call 811 two full business days before you dig to have underground utilities located and marked.



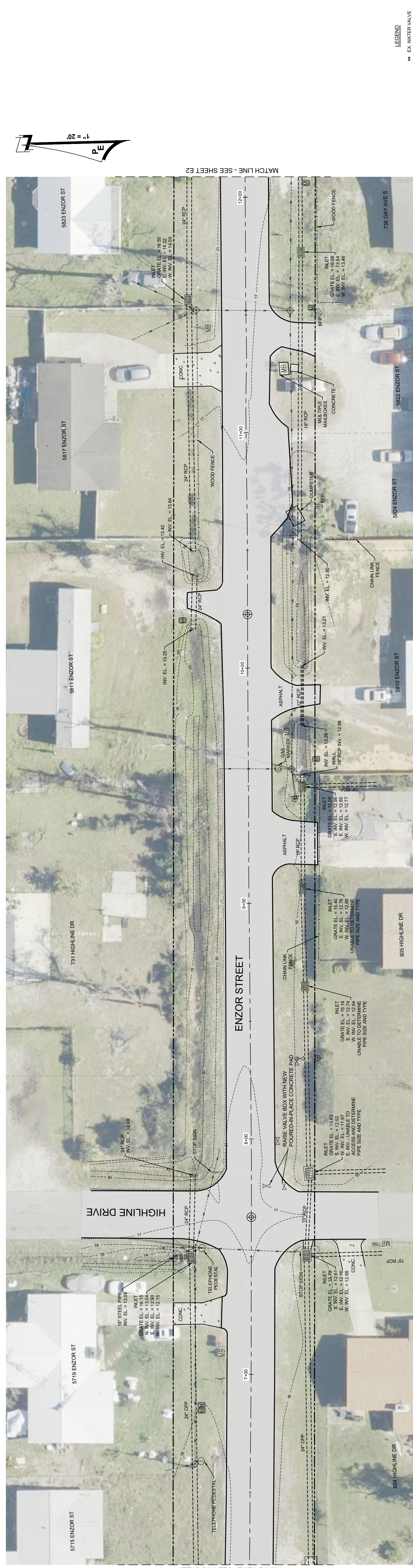
ENGINEER OF RECORD: CHRIS FOREHAND, P.E. (FL REG NO. 58028)



FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE F.L.O.W.



MATCH LINE - SEE THIS SHEET



MATCH LINE - SEE SHEET E2

- LEGEND**
- EX WATER VALVE
  - EX FIRE HYDRANT
  - EX WATER METER
  - EX SEWER MANHOLE
  - EX SIGNPOLE
  - EX MAILBOX
  - EX POWER POLE
  - EX GUY ANCHOR
  - EX OVERHEAD UTILITY
  - EX CONTOUR
  - EX ASPHALT
  - EX CONCRETE
  - PRO ASPHALT

SHEET NUMBER	E1
PROJECT NUMBER	26038

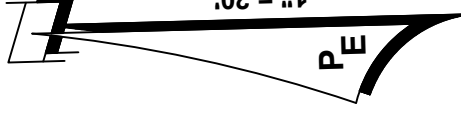
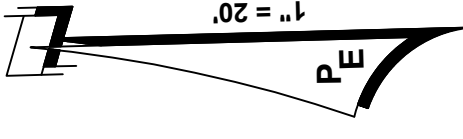
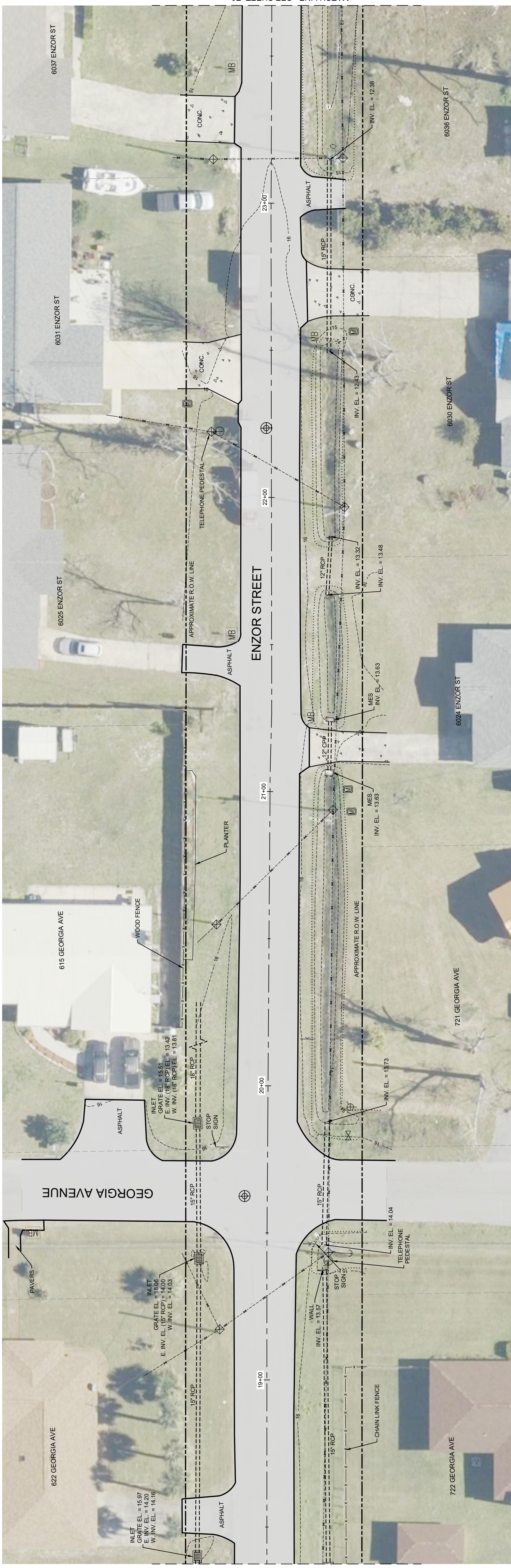
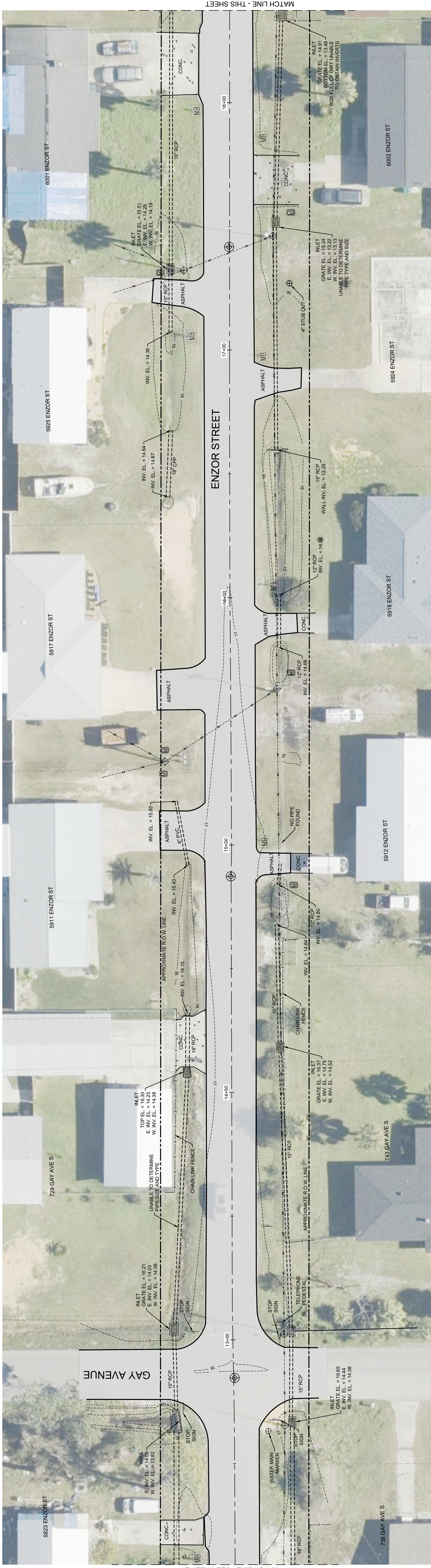
James H. Sloman, P.E. 33177  
 Stephen E. Price, P.E. 71646  
 J. Doug Cook, P.E. 66556

## EXISTING CONDITIONS ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 600 Ohio Avenue, Jacksonville, Florida 32244  
 (850) 753-5200 www.panhandleengineering.com

REV	DATE	BY	REVISIONS	SCALE	AS NOTED
DESIGNED BY:	CFB				
DRAWN BY:	SFL				
REVIEWED BY:	CFB				
ISSUE DATE:	APRIL 2022				
ACAD FILE NAME:	26038-E1.dwg				
RELEASED FOR CONSTRUCTION BY:	DATE:				

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE FLOWING



- LEGEND**
- EX WATER VALVE
  - EX FIRE HYDRANT
  - EX WATER METER
  - EX SEWER MANHOLE
  - EX SIGNPOLE
  - EX WALLEBOX
  - EX POWER POLE
  - EX GUY ANCHOR
  - EX OVERHEAD UTILITY
  - EX CONTOUR
  - EX ASPHALT
  - EX CONCRETE
  - PRO ASPHALT

REV	DATE	BY	REVISIONS	SCALE	AS NOTED
				DESIGNED BY: CBF	
				DRAWN BY: SPL	
				REVIEWED BY: CBF	
				ISSUE DATE: APRIL 2022	
				ACAD FILE NAME: 26038-E1.dwg	
				RELEASED FOR CONSTRUCTION BY: DATE: DATE	

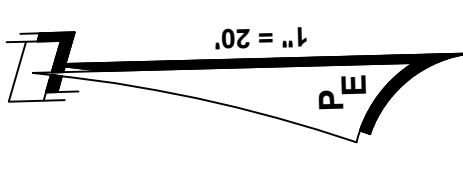
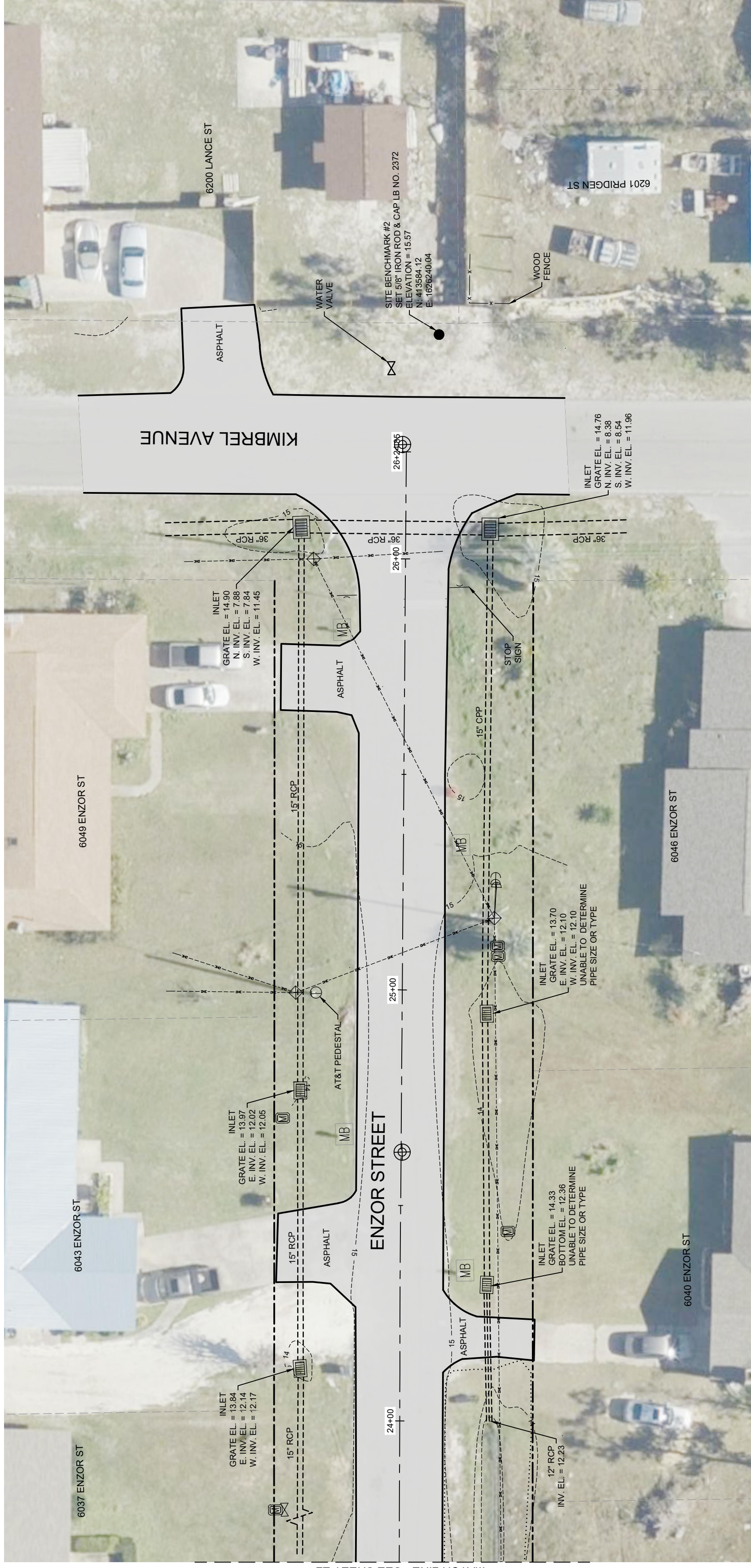
<p><b>PANHANDLE ENGINEERING, INC.</b>          ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS          600 Ohio Avenue, Suite 100, Callaway, Florida 32944          (850) 769-5200 www.panhandleengineering.com</p>	
<p><b>EXISTING CONDITIONS</b>  <b>ENZOR STREET</b>  <b>PAVING IMPROVEMENTS</b>  <b>CALLAWAY, FLORIDA</b></p>	
SHEET NUMBER <b>E2</b>	PROJECT NUMBER <b>26038</b>

James H. Shown, P.E. 33177  
 Stephen E. Price, P.E. 71846  
 J. Doug Cook, P.E. 66556

DRP CERTIFICATION #EB-7026

26038 ENZOR STREET PAVING IMPROVEMENTS EXISTING CONDITIONS SHEET E2

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



- LEGEND**
- EX WATER VALVE
  - EX FIRE HYDRANT
  - EX WATER METER
  - EX SEWER MANHOLE
  - EX SIGN POLE
  - EX MAILBOX
  - EX POWER POLE
  - EX GUY ANCHOR
  - EX OVERHEAD UTILITY
  - EX CONTOUR
  - EX ASPHALT
  - EX CONCRETE
  - PRO ASPHALT

SHEET NUMBER  
**E3**

PROJECT NUMBER  
**26038**

James H. Slonina, P.E. 33177  
 Stephen E. Price, P.E. 71846  
 J. Doug Cook, P.E. 66556

DPR CERTIFICATION #EB-7026

**EXISTING CONDITIONS  
 ENZOR STREET  
 PAVING IMPROVEMENTS  
 CALLAWAY, FLORIDA**

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 (850) 759-5200 www.panhandleengineering.com

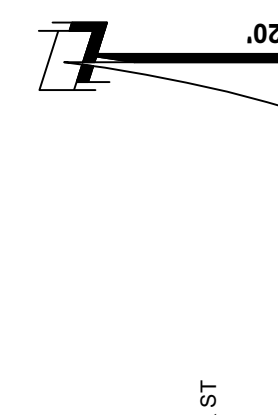
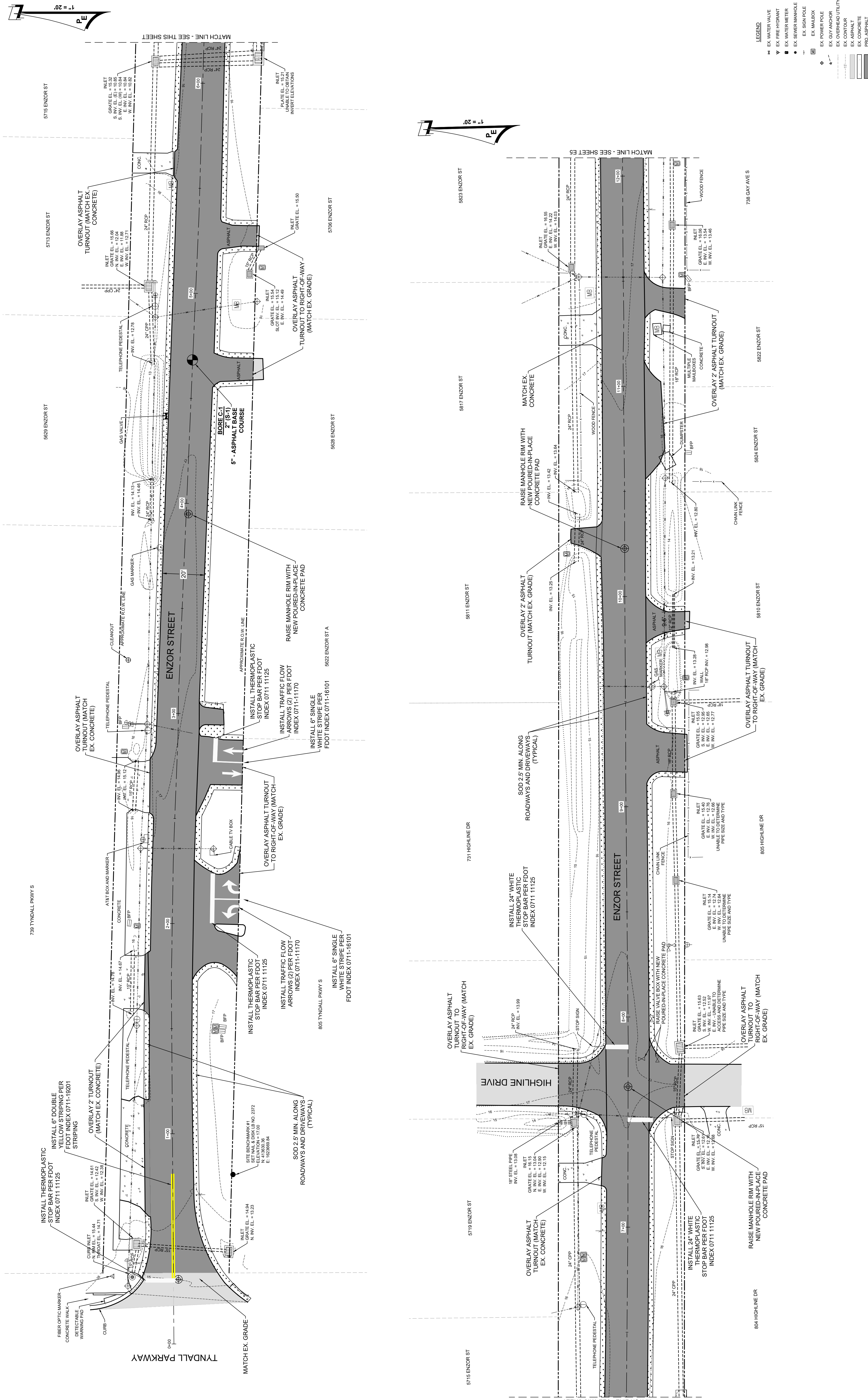
SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: SPL
REVIEWED BY: CBF
ISSUE DATE: APRIL 2022
ACAD FILE NAME: 26038-E1.dwg

REV	DATE	BY	REVISIONS

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FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE FOLLOWING



**LEGEND**

- EX WATER VALVE
- EX FIRE HYDRANT
- EX WATER METER
- EX SEWER MANHOLE
- EX SIGN POLE
- EX MALLEON
- EX POWER POLE
- EX GUY ANCHOR
- EX OVERHEAD UTILITY
- EX CONTOUR
- EX ASPHALT
- EX CONCRETE
- PRO ASPHALT

SHEET NUMBER	E4
PROJECT NUMBER	26038

James H. Blumh, P.E. 33177  
 Stephen E. Price, P.E. 71646  
 J. Doug Cook, P.E. 66556

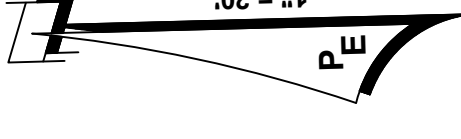
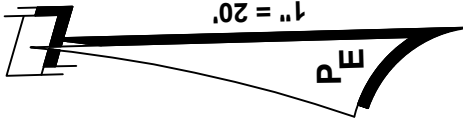
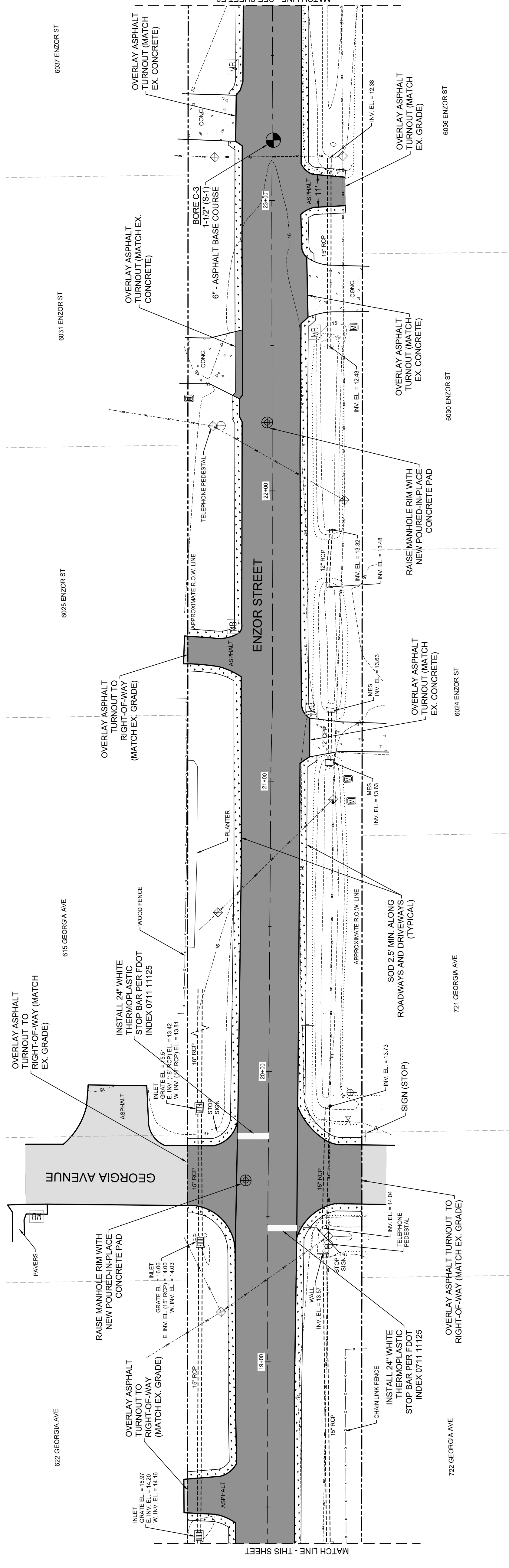
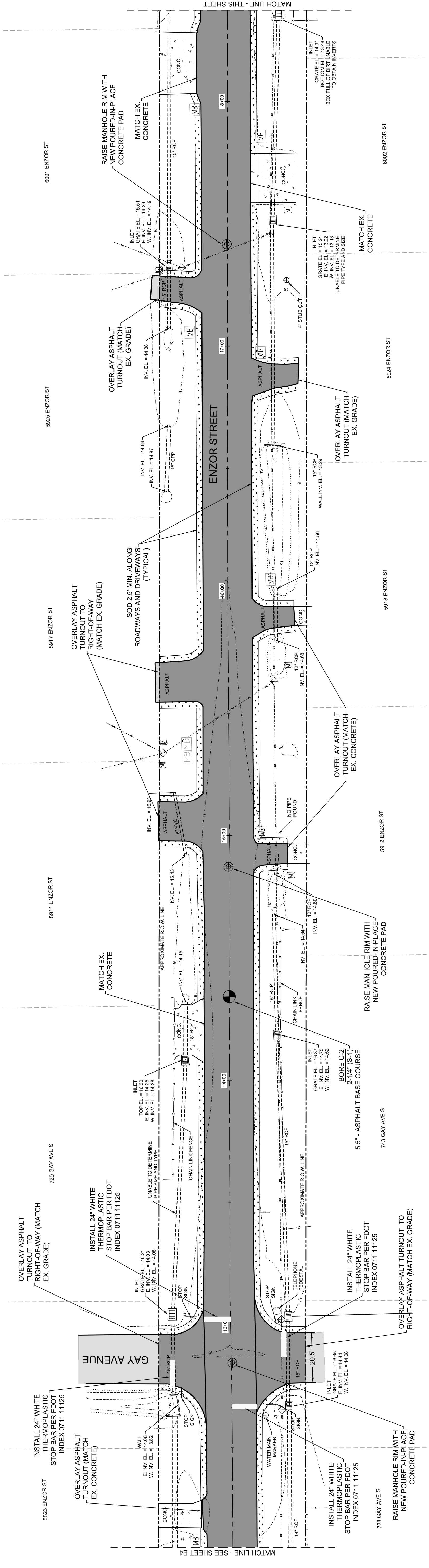
## PLAN VIEW ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA

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 600 Ohio Avenue • Jacksonville, Florida 32244  
 (850) 759-5200 • www.panhandleengineering.com

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REVIEWED BY:	CFB				
ISSUE DATE:	APRIL 2022				
ACAD FILE NAME:	26038-E1.dwg				
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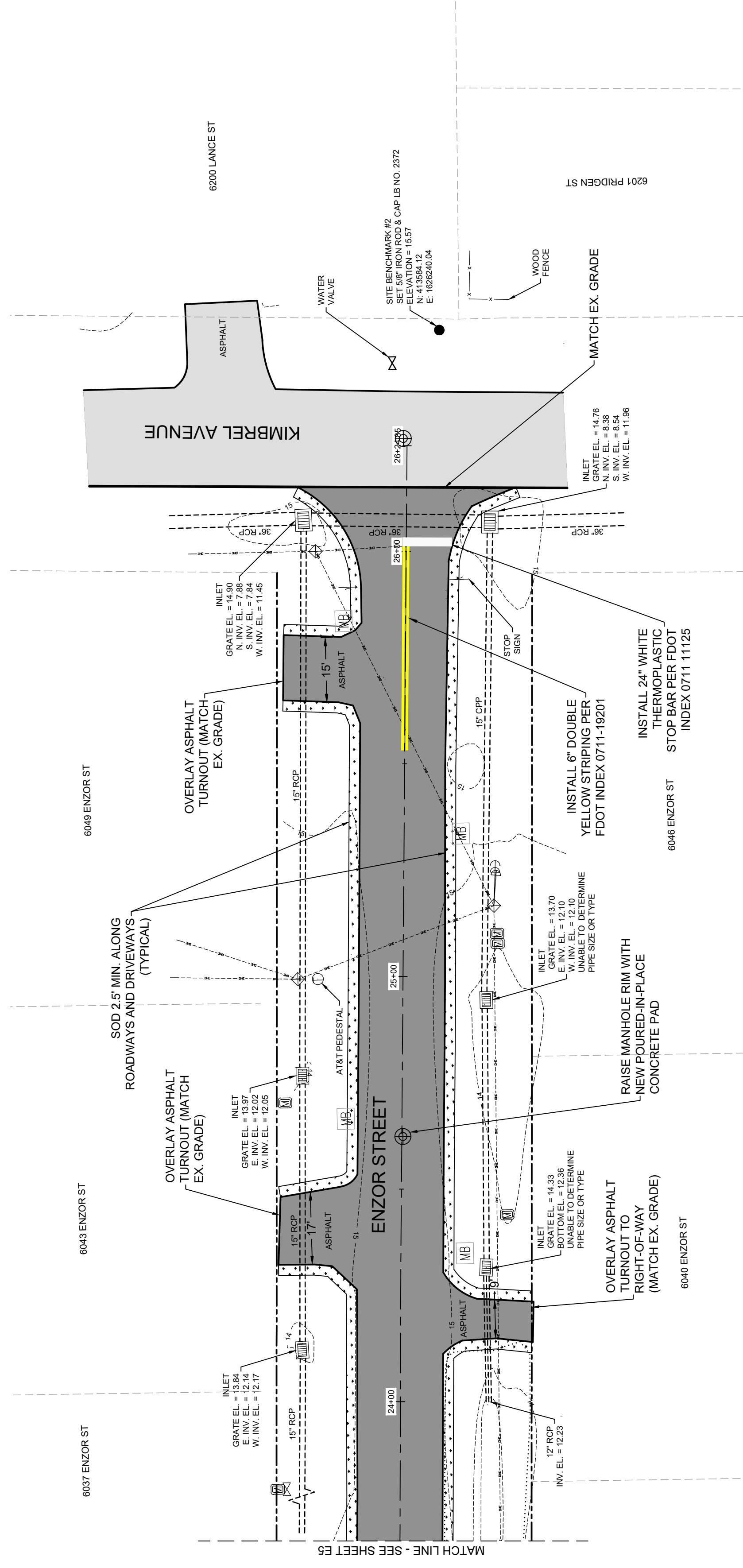
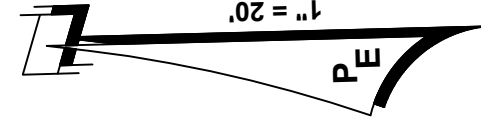
FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE FOLLOWING



- LEGEND**
- EX WATER VALVE
  - EX FIRE HYDRANT
  - EX WATER METER
  - EX SEWER MANHOLE
  - EX SIGN POLE
  - EX MAILBOX
  - EX POWER POLE
  - EX GUY ANCHOR
  - EX OVERHEAD UTILITY
  - EX CONTOUR
  - EX ASPHALT
  - EX CONCRETE
  - PRO ASPHALT

REV	DATE	BY	REVISIONS	SCALE	AS NOTED	DESIGNED BY:	CFB
						DRAWN BY:	SFL
						REVIEWED BY:	CFB
						ISSUE DATE:	APRIL 2022
						ACAD FILE NAME:	26038-E1.dwg
NOT						RELEASED FOR CONSTRUCTION BY:	DATE:
<b>PLAN VIEW</b> <b>ENZOR STREET</b> <b>PAVING IMPROVEMENTS</b> <b>CALLAWAY, FLORIDA</b>							
SHEET NUMBER <b>E5</b>							
PROJECT NUMBER <b>26038</b>							
<small>James H. Shuman, P.E. 33177          Stephen E. Price, P.E. 71646          J. Doug Cook, P.E. 66556</small>							
<small>DPR CERTIFICATION FEB-2025</small>							





SHEET NUMBER  
**E6**

PROJECT NUMBER  
**26038**

James H. Slonina, P.E. 33177  
 Stephen E. Price, P.E. 71646  
 J. Doug Cook, P.E. 66556

DPR CERTIFICATION # E6-7026

**PLAN VIEW**  
**ENZOR STREET**  
**PAVING IMPROVEMENTS**  
**CALLAWAY, FLORIDA**

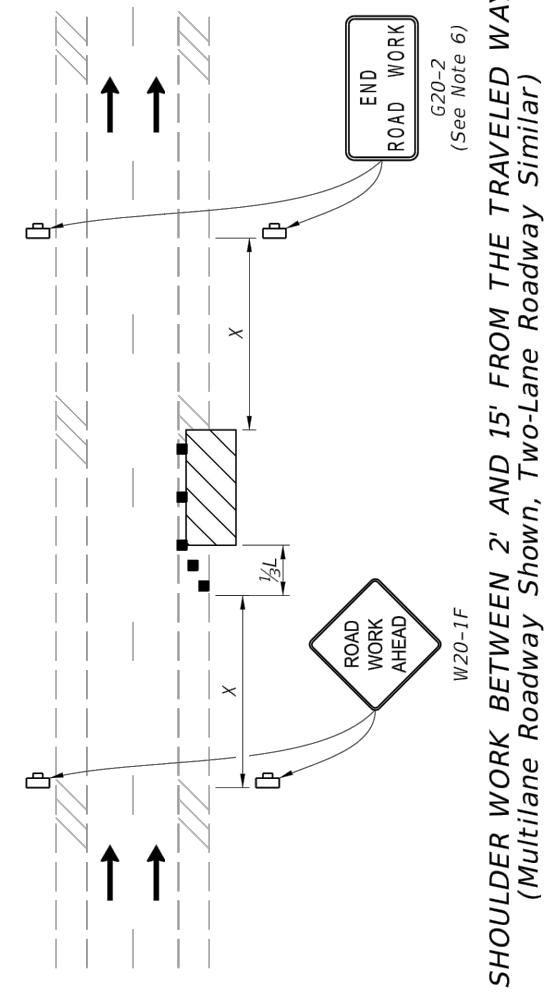
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 600 Ohio Avenue, Suite 100, Callaway, Florida 32414  
 (850) 769-5200 www.panhandleengineering.com

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: SPL
REVIEWED BY: CBF
ISSUE DATE: APRIL 2022
ACAD FILE NAME: 26038-E1.dwg

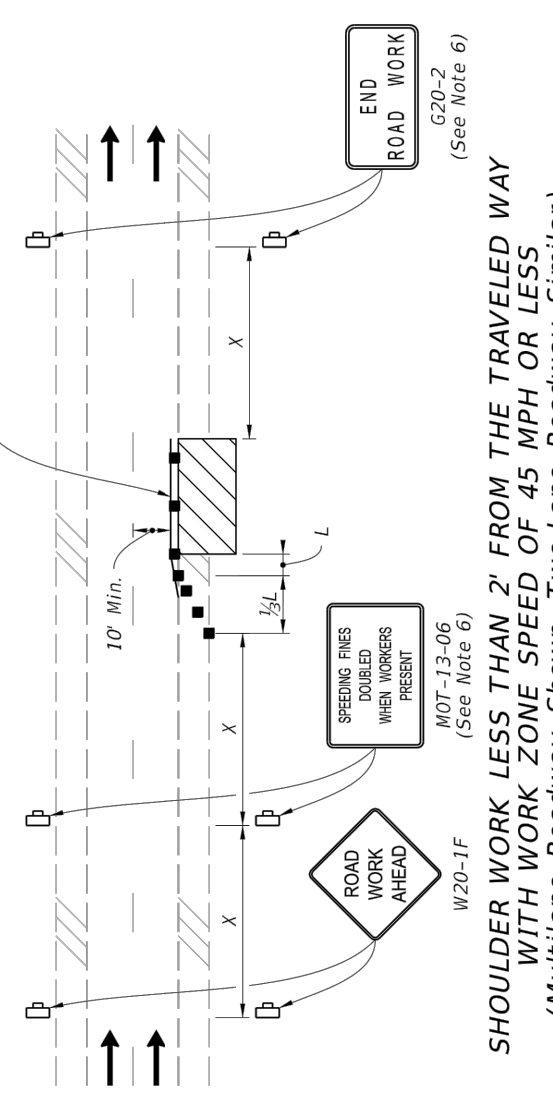
REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE:





SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY  
(Multilane Roadway Shown, Two-Lane Roadway Similar)



SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY  
(Multilane Roadway Shown, Two-Lane Roadway Similar)

- NOTES:**
- L = Taper Length
  - X = Work Zone Sign Distance
  - See Index 102-000 for "L", "X", and "Y" values.
  - For incidental work (e.g., mowing or litter removal), only the Road Work Ahead sign is required.
  - As determined by the Engineer, use a Flagger or lane closure to accommodate a significant amount of work vehicle ingress and egress.
  - For work less than two feet from the traveled way and work zone speed greater than 45 MPH, use a lane closure.
  - This Index may be applied to the medians of divided roadways.
  - The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (E20-2), along with associated work zone sign distances, may be omitted when the temporary condition is in place for 24 hours or less.

- SYMBOLS:**
- Work Space
  - Cheminizing Device (See Index 102-000)
  - Work Zone Sign
  - Lane Identification and Direction of Traffic
  - Flagger

LAST REVISION	DESCRIPTION	FY 2020-21 STANDARD PLANS	INDEX	SHEET
11/01/19			102-010	1 of 1

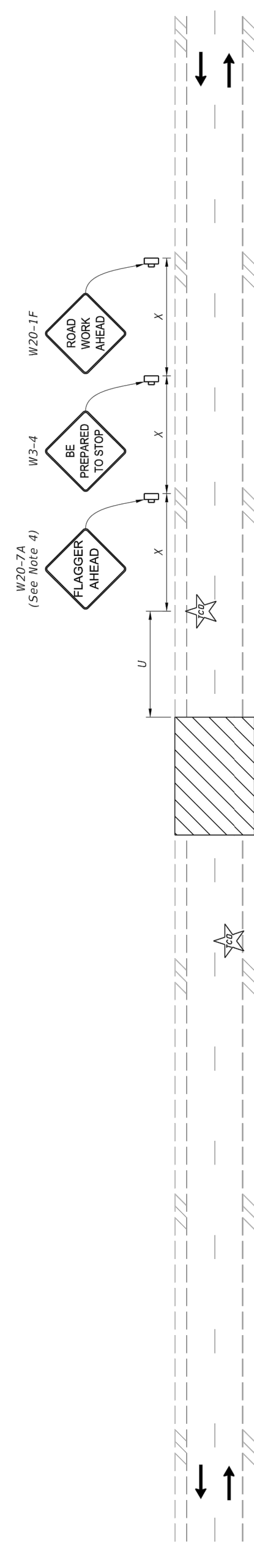
APPLIES TO TWO-LANE AND MULTILANE ROADWAYS  
WORK ON THE SHOULDER

- NOTES:**
- L = Taper Length
  - U = Buffer Length
  - X = Work Zone Sign Distance
  - See Index 102-000 for "L", "U", "X", and channelizing device spacing values.
  - Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
  - Use temporary raised rumble strips in accordance with the Plans. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign distance. See Index 102-000 for temporary raised rumble strip details.
  - The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (E20-2), along with associated work zone sign distances, may be omitted when the work zone will be in place for 24 hours or less.

- SYMBOLS:**
- Work Space
  - Cheminizing Device (See Index 102-000)
  - Work Zone Sign
  - Lane Identification and Direction of Traffic
  - Flagger

LAST REVISION	DESCRIPTION	FY 2020-21 STANDARD PLANS	INDEX	SHEET
11/01/19			102-025	1 of 1

APPLIES TO TWO-LANE AND MULTILANE ROADWAYS  
TEMPORARY ROADWAY CLOSURE



(Two-Lane Roadway Shown, Multilane Roadway Similar)

- NOTES:**
- L = Taper Length
  - X = Work Zone Sign Distance
  - See Index 102-000 for "U" and "X" values.
  - Do not use this Index for limited access roadways.
  - Use this Index for temporary daytime road closures of 5 minutes or less.
  - Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).

- SYMBOLS:**
- Work Space
  - Work Zone Sign
  - Lane Identification and Direction of Traffic
  - Traffic Control Officer

LAST REVISION	DESCRIPTION	FY 2020-21 STANDARD PLANS	INDEX	SHEET
11/01/19			102-020	1 of 1

APPLIES TO TWO-LANE AND MULTILANE ROADWAYS  
TEMPORARY ROADWAY CLOSURE

**FDOT MAINTENANCE OF TRAFFIC DETAILS**  
**ENZOR STREET**  
**PAVING IMPROVEMENTS**  
**CALLAWAY, FLORIDA**

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ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
600 Ohio Avenue, Jacksonville, Florida 32244  
(850) 759-5200 www.panhandleengineering.com

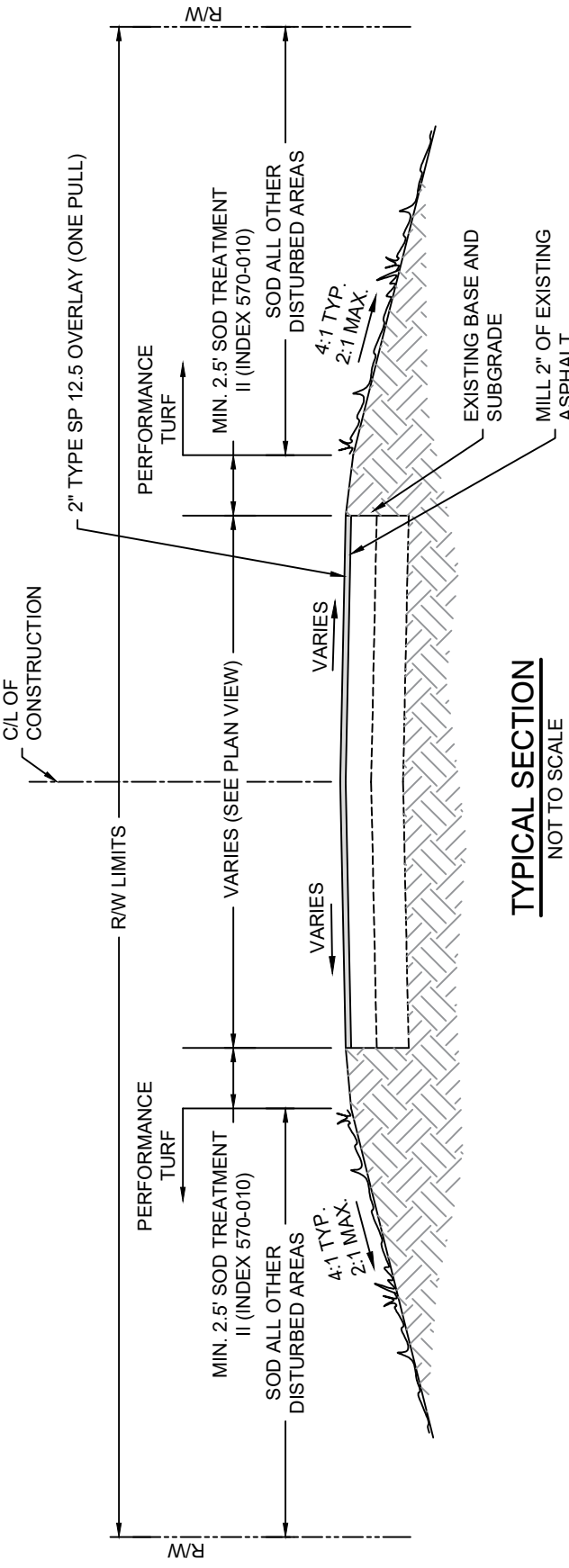
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				DRAWN BY:	SPL
				REVIEWED BY:	CBF
				ISSUE DATE:	APRIL 2022
NOT			RELEASED FOR CONSTRUCTION BY:	DATE:	26038-E1.png

SHEET NUMBER  
**E8**  
PROJECT NUMBER  
**26038**

James H. Shown, P.E. 33107  
Stephen E. Price, P.E. 71646  
J. Doug Cook, P.E. 66556

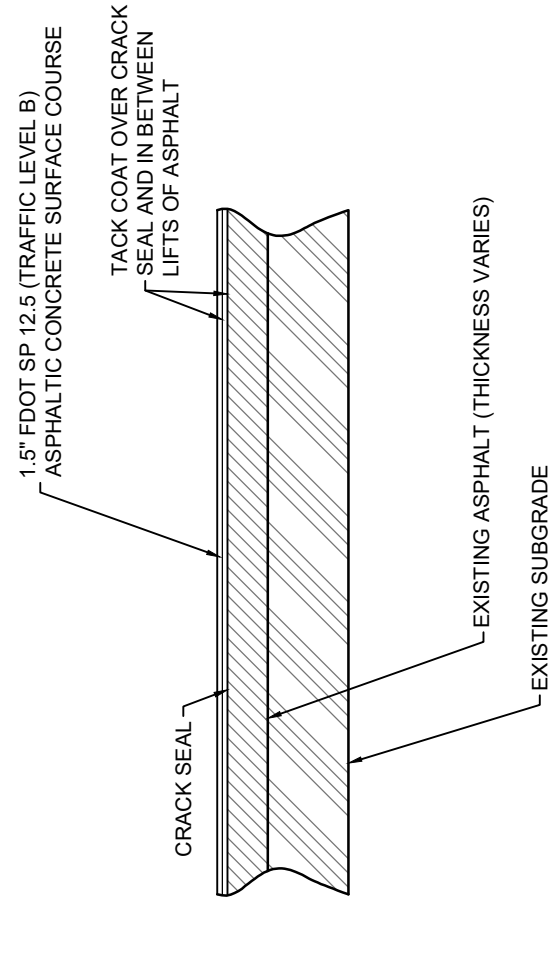




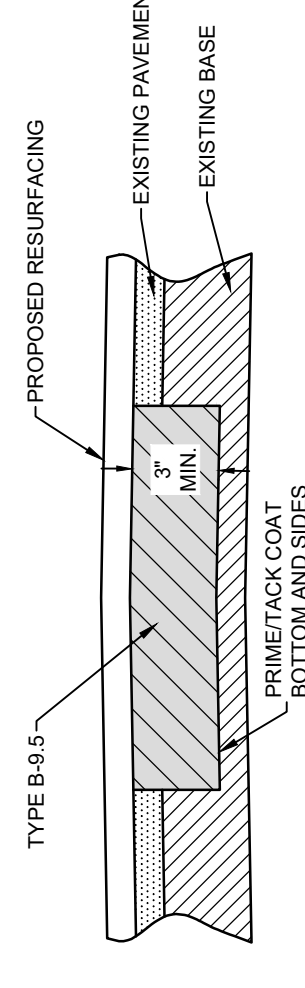


TYPICAL SECTION  
NOT TO SCALE

MAINLINE: TYPE SP 12.5 SURFACE COURSE (TRAFFIC LEVEL B) (2)  
NOTES: ALL ROADS TO RECEIVE FULL DEPTH RECLAMATION UNLESS NOTED OTHERWISE IN PLANS.

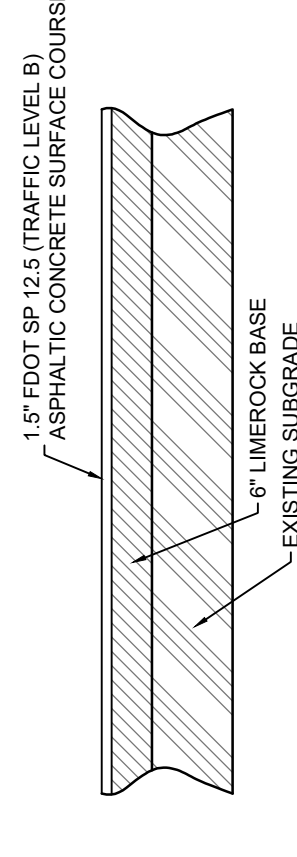


NOTE: PRIOR TO OVERLAYING EXISTING ASPHALT, CONTRACTOR SHALL CRACK SEAL FULL DEPTH OF ALL CRACKS AND REPAIR ALL POTHOLES AND OTHER DEFECTS IDENTIFIED AS MEDIUM OR HIGH USING THE PAVEMENT CONDITION INDEX METHOD.  
**ASPHALT OVERLAY DETAIL FOR DRIVEWAYS**  
NOT TO SCALE

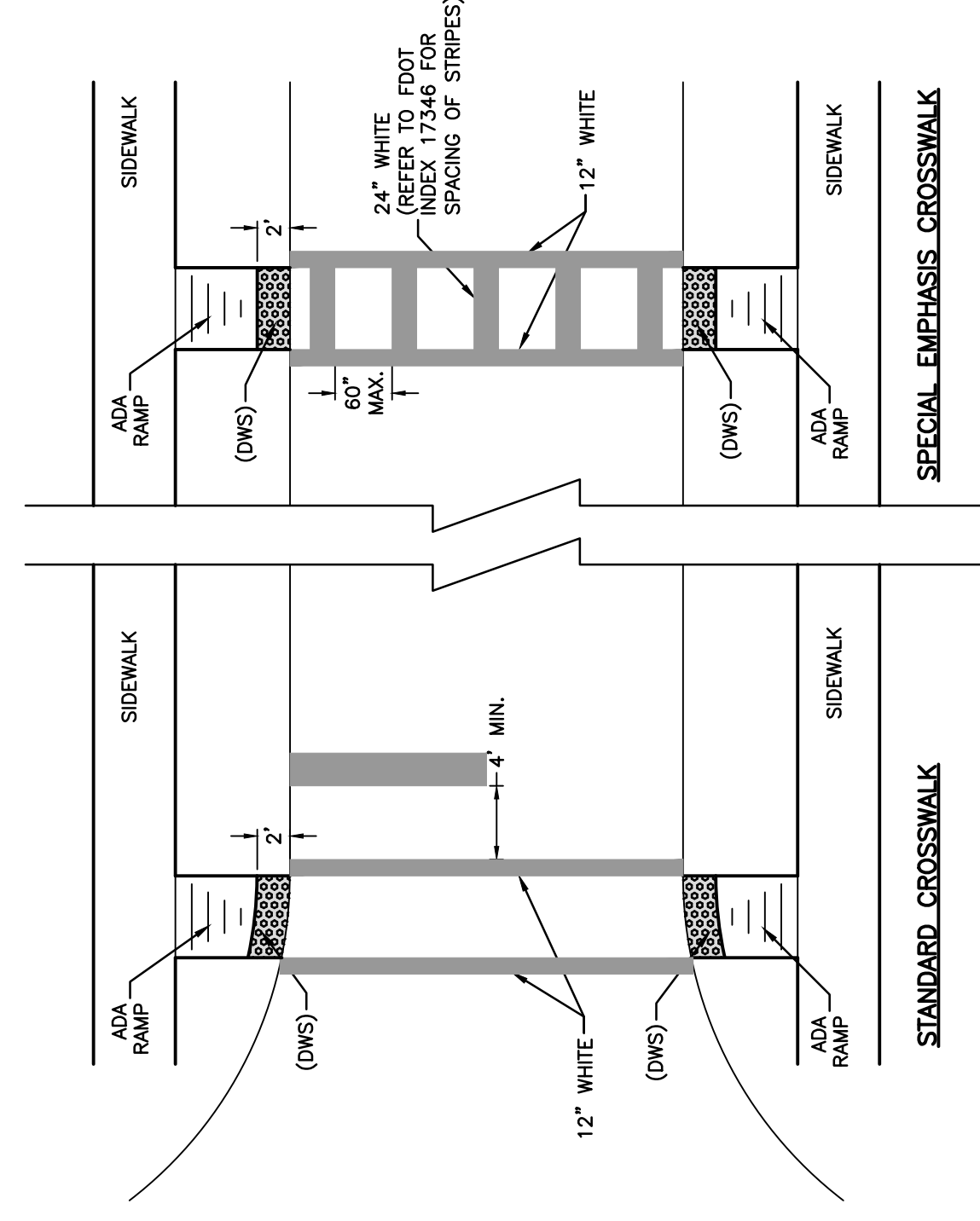


NOTES:  
1. SAW CUT PAVEMENT.  
2. EXCAVATE EXISTING PAVEMENT AND BASE TO DEPTH OF 3\"/>

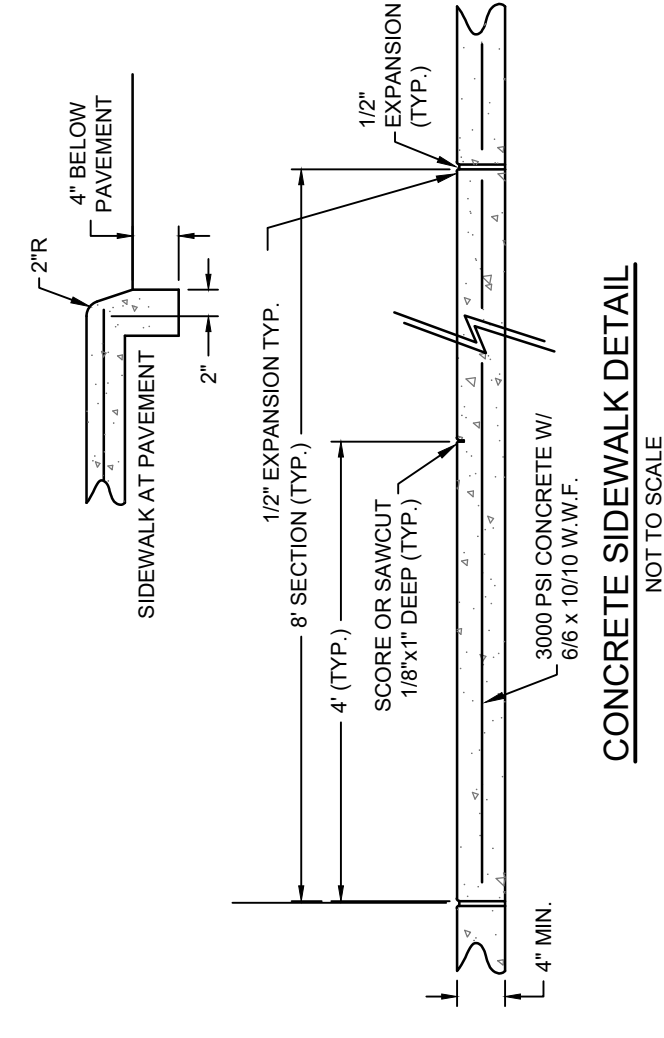
FULL DEPTH PATCH (FDP) DETAIL  
NOT TO SCALE



NEW PAVEMENT DETAIL FOR DRIVEWAYS NOT CURRENTLY PAVED  
NOT TO SCALE



NOTES:  
1.) INSTALL DETECTABLE WARNING STRIPS (DWS) AT ALL PEDESTRIAN CROSSWALKS, DRIVEWAYS, AND ALL PUBLICLY ACCESSIBLE RESIDENTIAL DRIVES. (PER FOOT INDEX 304)  
2.) USE STANDARD CROSSWALK AT STOP LOCATION AND SPECIAL EMPHASIS CROSSWALK AT ALL OTHER STOP LOCATIONS.  
3.) (DWS) COLOR TO BE YELLOW EXCEPT PORTIONS OF CRA TO BE RED BRICK.  
4.) (DWS) TO BE CAST-IN-PLACE REPLACEABLE STYLE (MANUFACTURED BY ADA SOLUTION, INC. [www.ada304.com](http://www.ada304.com)) UNLESS OTHERWISE APPROVED BY CITY.  
5.) CROSSWALK MINIMUM WIDTHS: INTERSECTION CROSSWALK 6'. MIDBLOCK CROSSWALK 10'.  
6.) ALL STRIPING SHALL BE THERMOPLASTIC.



- NOTES:
- SOD 2.5\"/>

REV	DATE	BY	REVISIONS	SCALE	AS NOTED
				DESIGNED BY: CBF	
				DRAWN BY: SPL	
				REVIEWED BY: CBF	
				ISSUE DATE: APRIL 2022	
				ACAD FILE NAME: 26038-E1.dwg	
NOT				RELEASED FOR CONSTRUCTION BY: DATE:	

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 600 OHIO AVENUE, SUITE 1000, CALLAWAY, FLORIDA 32414  
 (850) 769-5200 [www.panhandleengineering.com](http://www.panhandleengineering.com)

**TYPICAL SECTIONS AND DETAILS  
ENZOR STREET  
PAVING IMPROVEMENTS  
CALLAWAY, FLORIDA**

JAMES H. SHORIN, P.E. 33177  
 STEPHEN E. PRYDE, P.E. 71166  
 J. DOUG COOK, P.E. 66556

SHEET NUMBER  
**E11**  
PROJECT NUMBER  
**26038**

DPR CERTIFICATION #EB-7035

GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
2. CONTRACTOR SHALL REVIEW ALL PERMITS PRIOR TO CONSTRUCTION FOR ANY CHANGES TO THE DESIGN INCLUDED THEREIN. NOTIFY ENGINEER IMMEDIATELY OF ANY CHANGES.
3. ALL EXISTING ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PRODUCED BY DRAGON LAND SURVEYING, INC. DATED 09/19. THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
-FDEP NPDES NOTICE OF INTENT (STORMWATER POLLUTION PREVENTION PLAN)
-NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT
-BAY COUNTY DEVELOPMENT ORDER
4. FLORIDA LAW (F.S. 353.801) PROTECTION OF UNDERGROUND GAS PIPELINES MANDATES THAT NO EXCAVATOR SHALL COMMENCE OR PROCEED WITH ANY EXCAVATION OPERATIONS WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION. THIS INCLUDES ANY OPERATOR UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY EXISTING UTILITY OR CONDUIT, INCLUDING BUT NOT LIMITED TO DRIPPING, BORING AND CABLE FLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
5. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
6. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
7. CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE AS-BUILT DRAWINGS CERTIFIED BY A FLORIDA LICENSED SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE AS-BUILT DRAWINGS WILL NOT BE ACCEPTED UNLESS THE DIMENSIONS OF THE WORK ARE WITHIN THE TOLERANCES SPECIFIED IN THE DRAWINGS. CONTRACTOR SHALL CORRECT ALL INFORMATION WHICH IS UNCHANGED AND CURRENT SHALL BE NOTED BY CHECKING OFF OR CIRCULING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH AND NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING AND DRAINAGE AND WATER AND SEWER NOTES.
8. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
9. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREIN, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE EXISTING SITE, SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND THE FIELD CONDITIONS. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
11. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE INSPECTION PERSONNEL OTHER THAN OWNERS SHALL BE REPORTED TO ENGINEER/OWNER PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.
12. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
13. ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE COUNTY, OWNER, INVOLVED UTILITY COMPANIES, ENGINEER AND REGULATORY AGENCIES.
14. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE INFORMATION PROVIDED IN THESE DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETE STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
15. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
16. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
17. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER AND AGENCY APPROVAL PRIOR TO PROCUREMENT OF MATERIALS. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
18. CONTRACTOR TO SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER AND ENGINEER FOR ACCEPTANCE AND CERTIFICATIONS. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
19. CONTRACTOR TO REFERENCE CONSTRUCTION AND MATERIALS TECHNICAL SPECIFICATIONS CONTAINED WITHIN THE PROJECT MANUAL DISTRIBUTED BY THE OWNER. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER TRAFFIC MAINTENANCE AND CONTROLS IN ACCORDANCE WITH THE PROJECT MANUAL. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION. TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR OTHER MEASURES TO PREVENT TRESPASSING. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
22. DENSITIES IN ALL UTILITY AND STORM TRENCHES SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY. CONTRACTOR SHALL PROVIDE TESTING RESULTS UPON REQUEST. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
23. ALL SANITARY SEWER AND STORM SEWER PIPING SHALL BE VIDEO INSPECTED BEFORE PAVING AND AGAIN PRIOR TO THE END OF THE PAVING OPERATION. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
24. AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH BAY COUNTY REQUIREMENTS AVAILABLE ONLINE. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
25. SHOULD THERE BE ANY CONFLICT BETWEEN THE NOTES ON THIS SHEET AND THE BAY COUNTY STANDARD SPECIFICATIONS OR DETAILS THEN THE COUNTY INFORMATION SHALL OVERRIDE.

GRADING AND DRAINAGE NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL THE WORK IN THIS SET OF DRAWINGS.
2. ALL INDICATED ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. EXISTING ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PRODUCED BY DRAGON LAND SURVEYING, INC. DATED 09/19. CONTRACTOR SHALL VERIFY THIS CORRECTNESS AT THE TIME OF CONSTRUCTION.
4. ALL GRADING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE MEASURES TO INSURE AGAINST POLLUTING, SILLING, OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE EROSION OR DAMAGE TO ADJACENT PROPERTIES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR COMPLYING WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES. METHODS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, OR SILT SCREENS. ANY MEASURES SHOWN OR DESCRIBED IN THE DRAWINGS SHALL BE CONSIDERED MINIMUMS AND SHALL NOT ALLEVIATE CONTRACTOR FROM THE RESPONSIBILITY TO IMPLEMENT ANY NECESSARY MEASURES TO PREVENT EROSION OR DAMAGE TO ADJACENT PROPERTIES.
7. CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE WHETHER SAID PERMIT IS REQUIRED. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
8. GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT IN PREPARATION OF THESE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO COMPLETE NESS OR ACCURACY OF GEOTECHNICAL INFORMATION. GEOTECHNICAL ENGINEER: MAGNUM ENGINEERING, INC.
PROJECT NO.: M19-107-181
DATE: JULY 26, 2019
9. ELEVATIONS OF GRASSED AREAS ARE GIVEN AT FINISHED GRADE (TOP OF SOIL OR SEEDS SURFACE). CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
10. MITERED END SECTIONS, BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.
11. ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
12. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING OF ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL.
13. CONTRACTOR SHALL ENSURE THAT SIDEWALK SLOPES DO NOT EXCEED MAXIMUMS SET FORTH BY THE ADA (2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM LONGITUDINAL SLOPE). CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES. CONTRACTOR SHALL OBTAIN APPROVED CONSTRUCTION SCHEDULE FOR VARIOUS UTILITY COMPANIES.
14. CONTRACTOR SHALL CLEAN/FLUSH THE ENTIRE STORM PIPING SYSTEM AND VIDEO INSPECT. CONTRACTOR SHALL PROVIDE VIDEO INSPECTION FOOTAGE TO ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF PAVING.

GRADING AND DRAINAGE MATERIAL SPECIFICATIONS:

- 1. STORM PIPE SHALL BE REINFORCED CONCRETE PIPE PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED. JOINTS SHALL BE BELL AND SPOGT WITH COMPRESSION GASKETS CONFORMING TO ASTM C443-95 AND WRAPPED PER FDOT INDEX 280.
2. ALL STORM STRUCTURES SHALL CONFORM WITH FDOT STANDARD INDEX DRAWINGS AND SPECIFICATIONS (LATEST EDITION) EXCEPT THAT DITCH BOTTOM SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED. GRATES SUPPORTED BY STEEL ANGLE SEAT'ON SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED.
3. ALL CONCRETE WORK SHALL BE 3,000 PSI MINIMUM, UNLESS OTHERWISE SPECIFIED.

HORIZONTAL GEOMETRY NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
2. ALL STREETS, DRIVEWAYS, SIDEWALKS, AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FOOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

Table with 4 columns: REV, DATE, BY, REVISIONS. Includes a row for NOT RELEASED FOR CONSTRUCTION BY DATE.

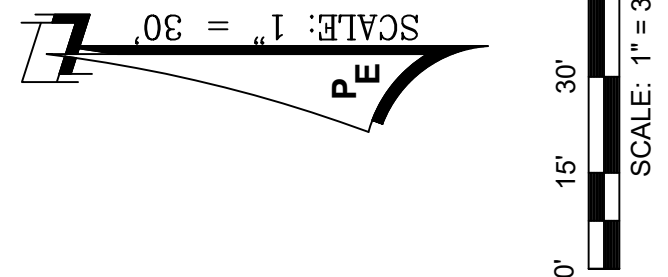
PANHANDLE ENGINEERING, INC. ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS 600 Ohio Avenue, Jacksonville, Florida 32244 (850) 759-5200 www.panhandleengineering.com

GENERAL NOTES ENZOR STREET PAVING IMPROVEMENTS CALLAWAY, FLORIDA SHEET NUMBER E12 PROJECT NUMBER 26038 SHEET NUMBER E12 PROJECT NUMBER 26038

James H. Shown, P.E. 33177 06209 Stephen E. Price, P.E. 71166 J. Doug Cook, P.E. 66556

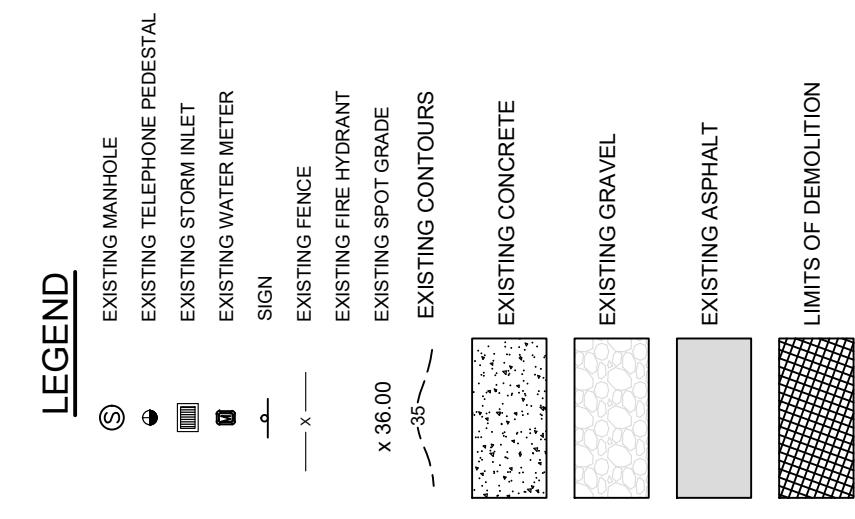
DPR CERTIFICATION #EEB-7026

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE FOLLOWING



**WARNING: GAS MAIN IN AREA OF CONSTRUCTION**

ELEVATIONS SHOWN HEREON ARE BASED ON THE STATE OF FLORIDA'S NATIONAL NAVIGATION SATellite SYSTEM REFERENCE TO NAVD 83. ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION SYSTEM. BENCHMARKS ARE SHOWN AS BENCHM. WITH THE BENCHMARK NUMBER AND ELEVATION. BENCHMARKS ARE LOCATED IN THE STATE OF FLORIDA AND ARE IDENTIFIED BY THE STATE OF FLORIDA. BENCHMARKS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS THEY ARE IDENTIFIED AS SUCH BY THE STATE OF FLORIDA. BENCHMARKS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS THEY ARE IDENTIFIED AS SUCH BY THE STATE OF FLORIDA. BENCHMARKS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS THEY ARE IDENTIFIED AS SUCH BY THE STATE OF FLORIDA.



**SURVEY PROVIDED BY:**  
**BUCHANAN & HARPER, INC.**  
735 WEST 11TH STREET  
PANAMA CITY, FL 32401  
PHONE: (850) 763-7427

SHEET NUMBER	11
PROJECT NUMBER	26035

James H. Shuman, P.E. 39107  
Stephen E. Price, P.E. 71646  
J. Doug Cook, P.E. 66566  
DPR CERTIFICATION FEB-7038

# EXISTING CONDITIONS, DEMOLITION AND EROSION CONTROL PLAN IMPERIAL DRIVE CALLAWAY, FLORIDA

SCALE:	AS NOTED
DESIGNED BY:	CRF
DRAWN BY:	CAK
REVIEWED BY:	CRF
ISSUE DATE:	APRIL 2022
ACAD FILE NAME:	26035d1.dwg

REV	DATE	BY	REVISIONS

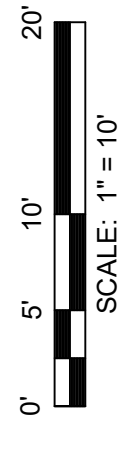
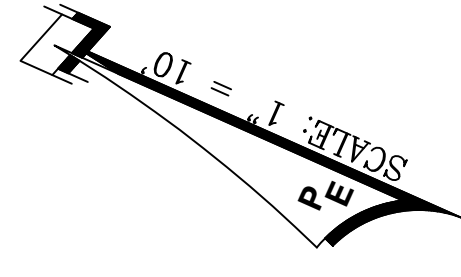
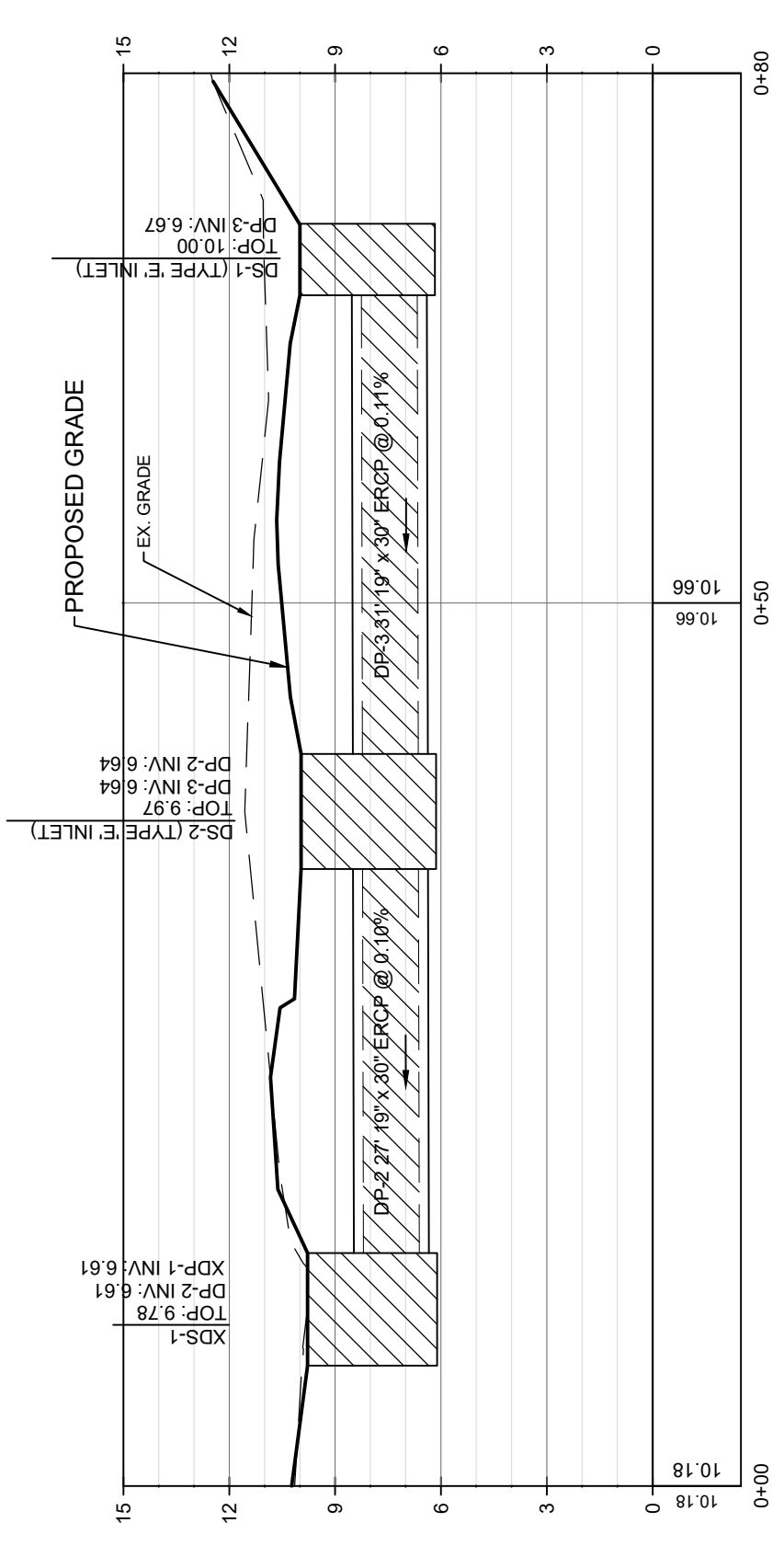
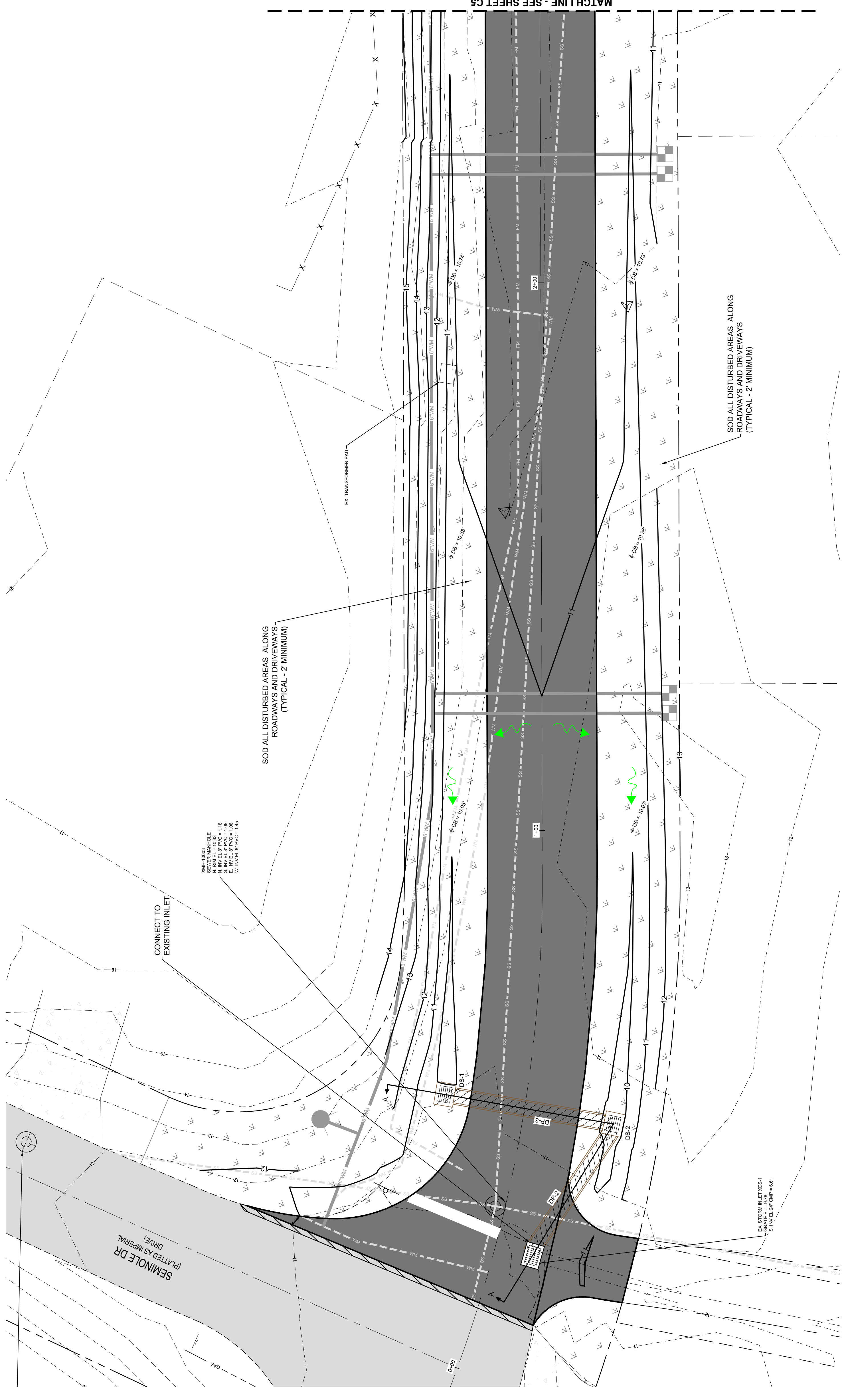


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**WARNING: GAS MAIN IN AREA OF CONSTRUCTION**

- LEGEND**
- ⊙ EXISTING MANHOLE
  - ⊕ EXISTING TELEPHONE RECEPTACLE
  - ⊖ EXISTING STORM INLET
  - ⊖ EXISTING WATER METER
  - SIGN
  - EXISTING FENCE
  - EXISTING FIRE HYDRANT
  - EXISTING SPOT GRADE
  - EXISTING CONTOURS
  - PROPOSED CONTOURS
  - EXISTING CONCRETE
  - EXISTING ASPHALT
  - PROPOSED ASPHALT
  - PROPOSED CONCRETE

**NOTES**

1. ALL EXISTING UTILITY LOCATIONS AND DEPT. RECORDS SHALL BE OBTAINED PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY UTILITY IDENTIFICATION OF CONFLICTS.

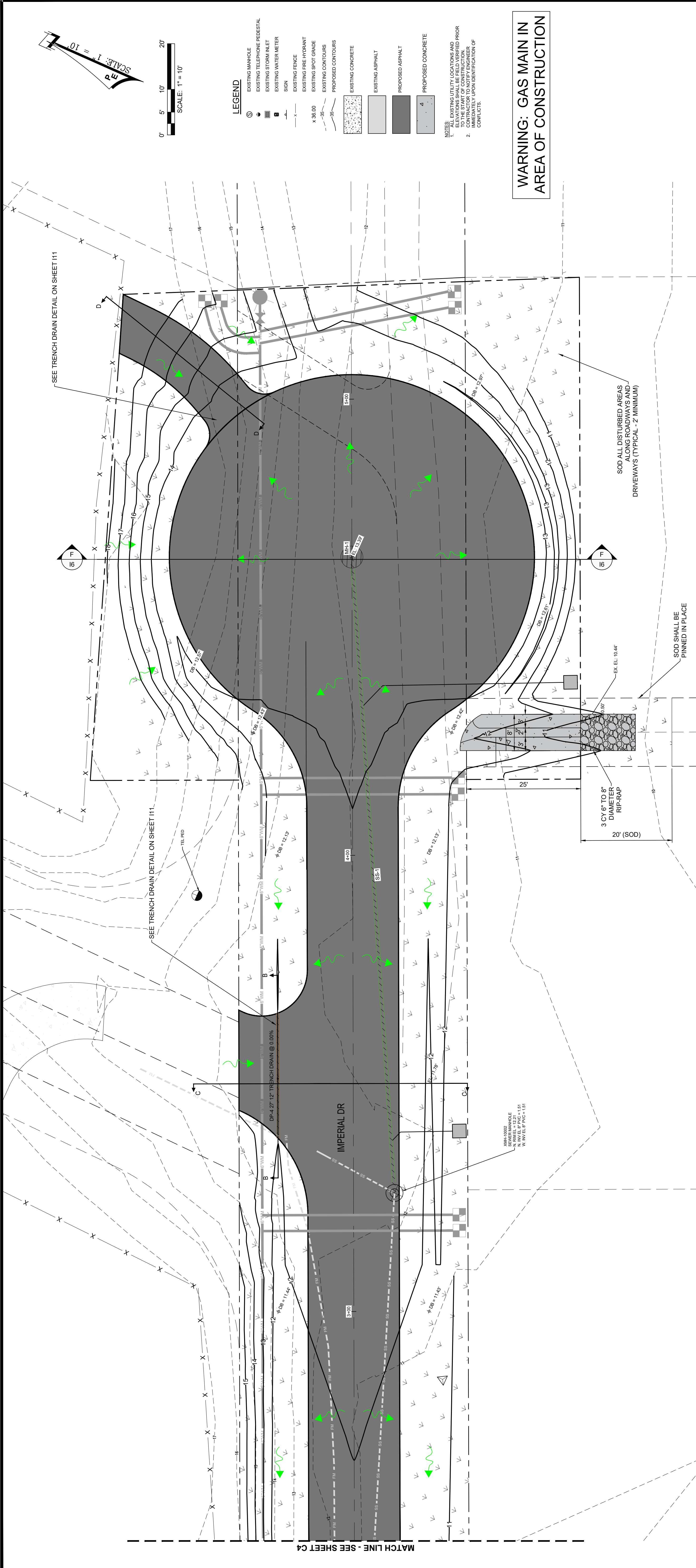
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NOT	RELEASED FOR CONSTRUCTION	BY: DATE:	

**SECTION A-A**

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 600 Ohio Avenue, Tallahassee, Florida 32304  
 (850) 759-5200 www.panhandleengineering.com

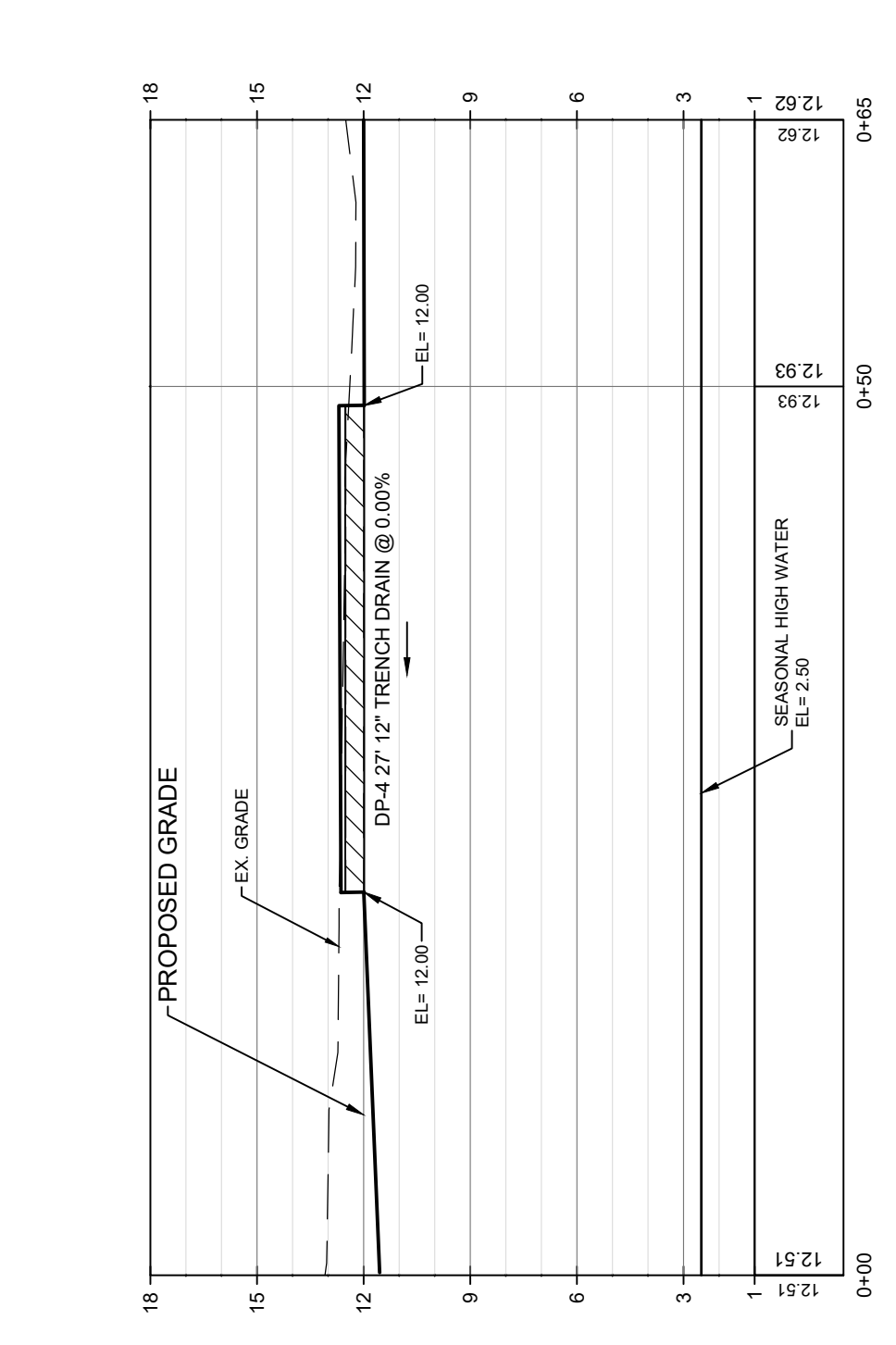
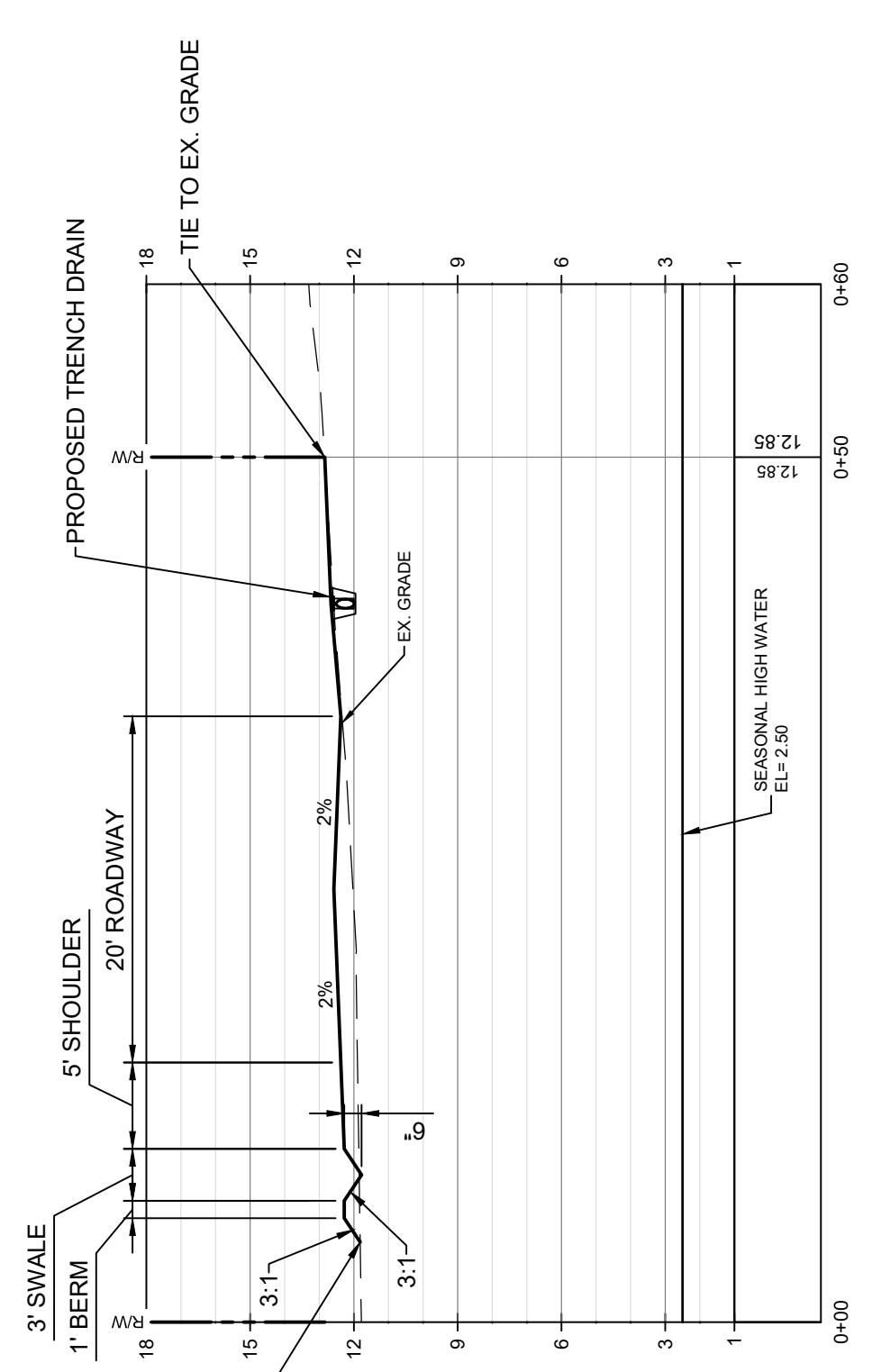
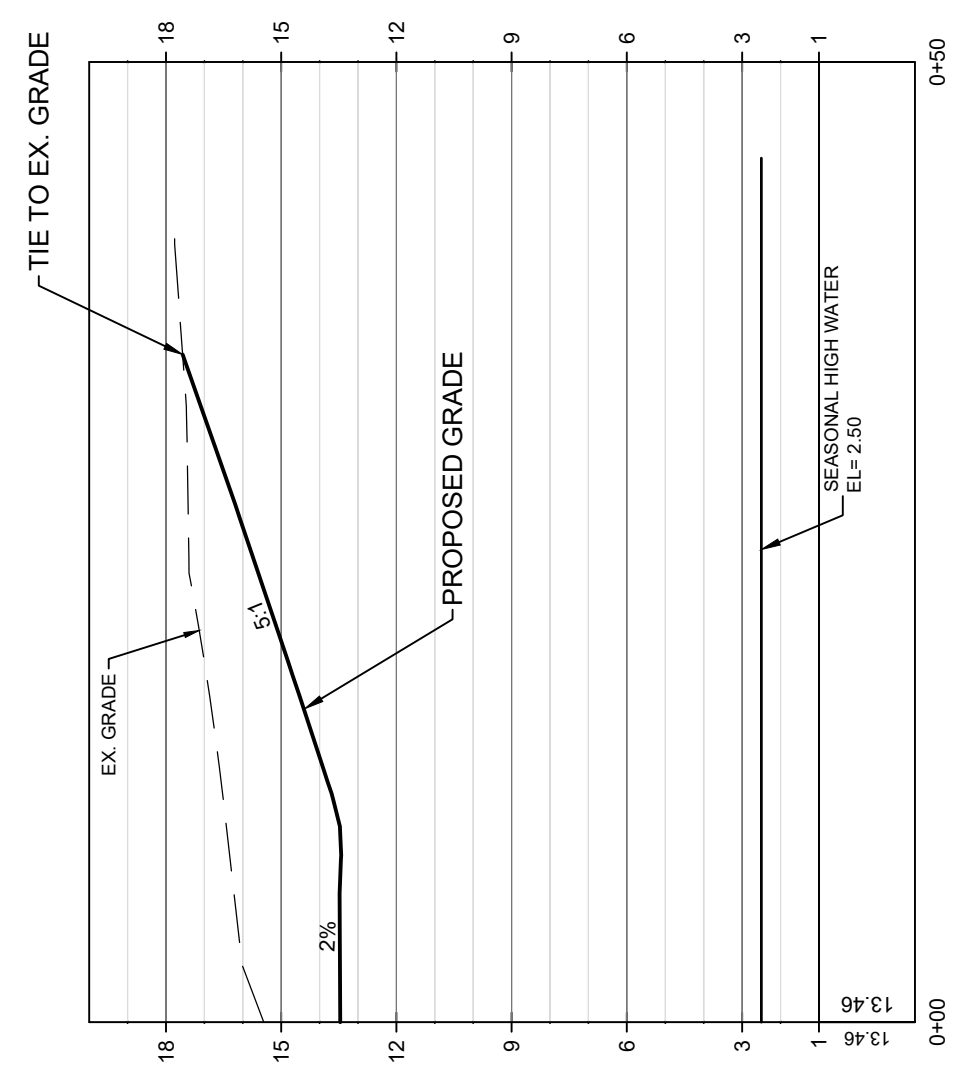
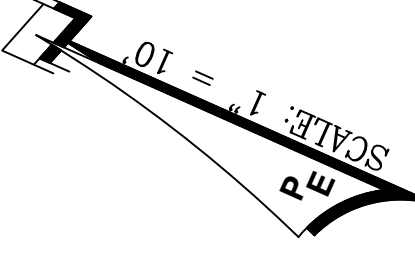
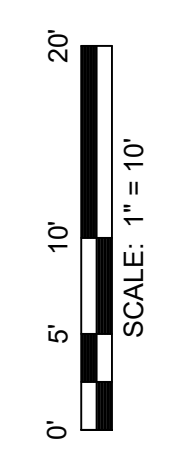
SCALE:	AS NOTED
DESIGNED BY:	CRF
DRAWN BY:	CAK
REVIEWED BY:	CRF
ISSUE DATE:	APRIL 2022
ACAD FILE NAME:	283035.dwg

PROJECT NUMBER	26035
SHEET NUMBER	14



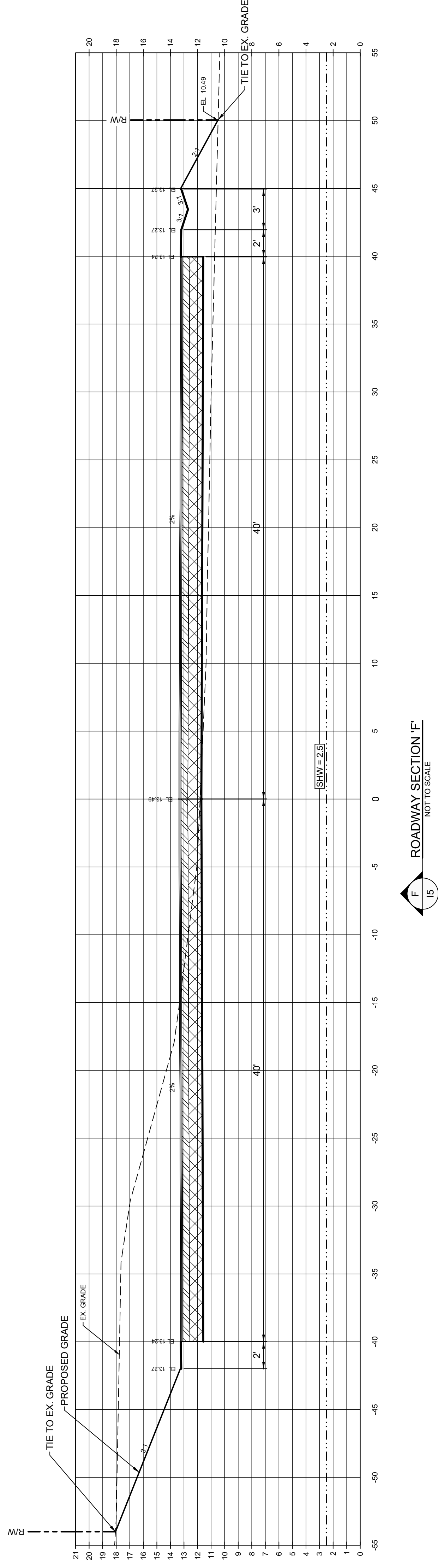
**WARNING: GAS MAIN IN AREA OF CONSTRUCTION**

- LEGEND**
- ⊙ EXISTING MANHOLE
  - ⊙ EXISTING TELEPHONE PEDestal
  - ⊙ EXISTING STORM INLET
  - ⊙ EXISTING WATER METER
  - ⊙ SIGN
  - ⊙ EXISTING FENCE
  - ⊙ EXISTING FIRE HYDRANT
  - ⊙ EXISTING SPOT GRADE
  - ⊙ EXISTING CONTOURS
  - ⊙ PROPOSED CONTOURS
  - ⊙ EXISTING CONCRETE
  - ⊙ EXISTING ASPHALT
  - ⊙ PROPOSED ASPHALT
  - ⊙ PROPOSED CONCRETE
- NOTES:** EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION. IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

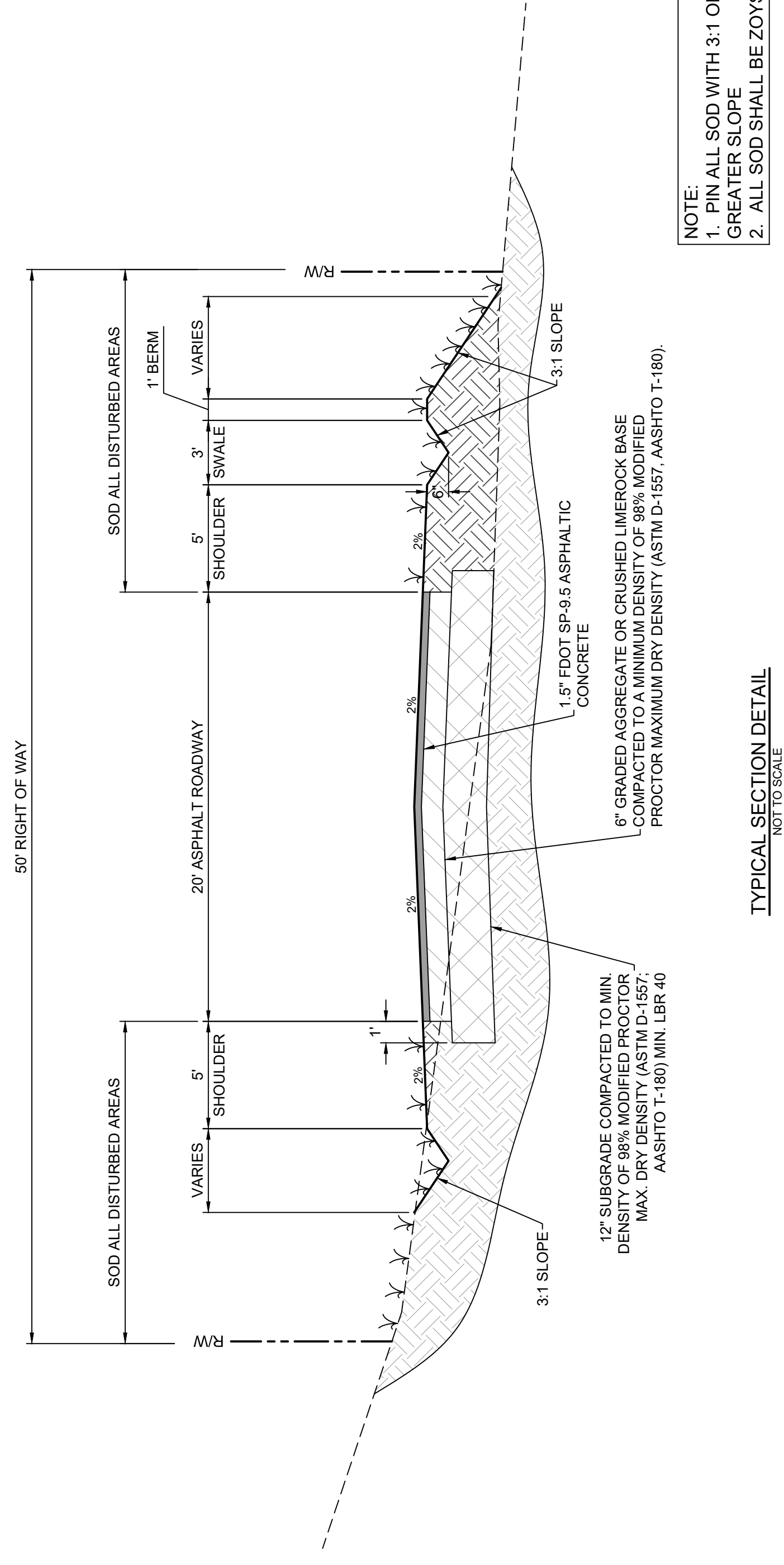


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NOT	RELEASED FOR CONSTRUCTION BY:	DATE:	ACAD FILE NAME: 260354.dwg	ISSUE DATE: APRIL 2022	ENVIRONMENTAL ENGINEERS & CIVIL ENGINEERS, L.L.C. ENGINEERS	600 Ohio Avenue, Suite 100, Callaway, Florida 32414	(850) 769-5200 www.panhandleengineering.com
				<b>SECTION C-C</b>	<b>PANHANDLE ENGINEERING, INC.</b>		
				<b>SECTION D-D</b>	<b>GRADING AND DRAINAGE PLAN</b>		
				<b>IMPERIAL DRIVE</b>			SHEET NUMBER <b>15</b>
				<b>CALLAWAY, FLORIDA</b>			PROJECT NUMBER <b>26035</b>

JAMES H. SHORIN, P.E. 33177  
STEPHAN E. PRUE, P.E. 71166  
J. DOUG COOK, P.E. 66556



**F**  
ROADWAY SECTION 'F'  
NOT TO SCALE



TYPICAL SECTION DETAIL  
NOT TO SCALE

- NOTE:  
 1. PIN ALL SOD WITH 3:1 OR GREATER SLOPE  
 2. ALL SOD SHALL BE ZOYSA

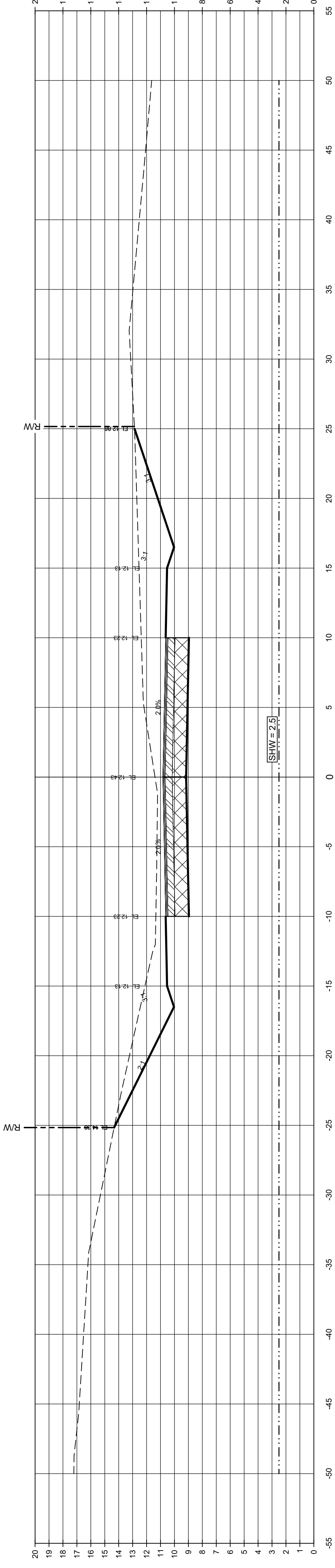
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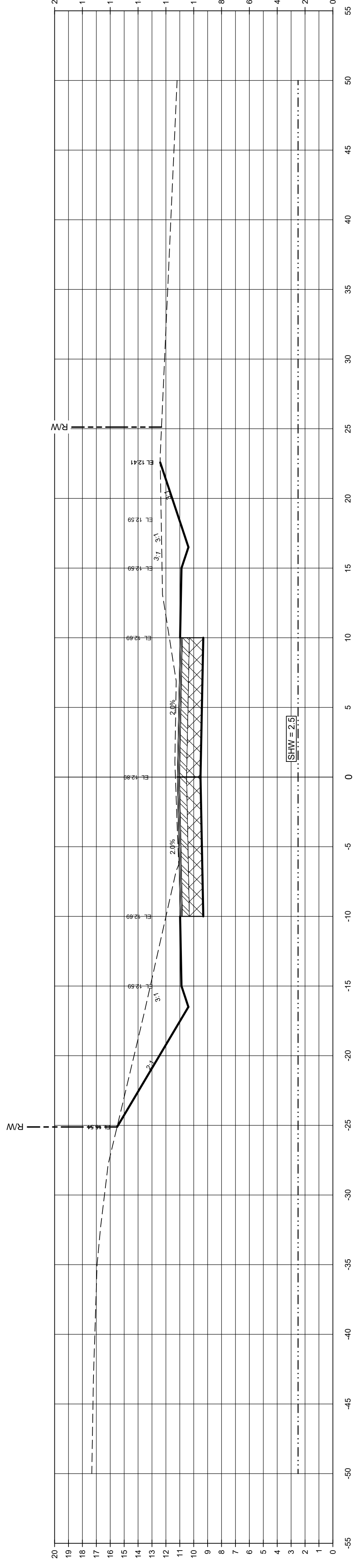
**CROSS SECTIONS  
 IMPERIAL DRIVE  
 CALLAWAY, FLORIDA**

James H. Shown, P.E. 33177  
 Stephen E. Price, P.E. 71846  
 J. Doug Cook, P.E. 66556  
 DPR CERTIFICATION #EB-7036

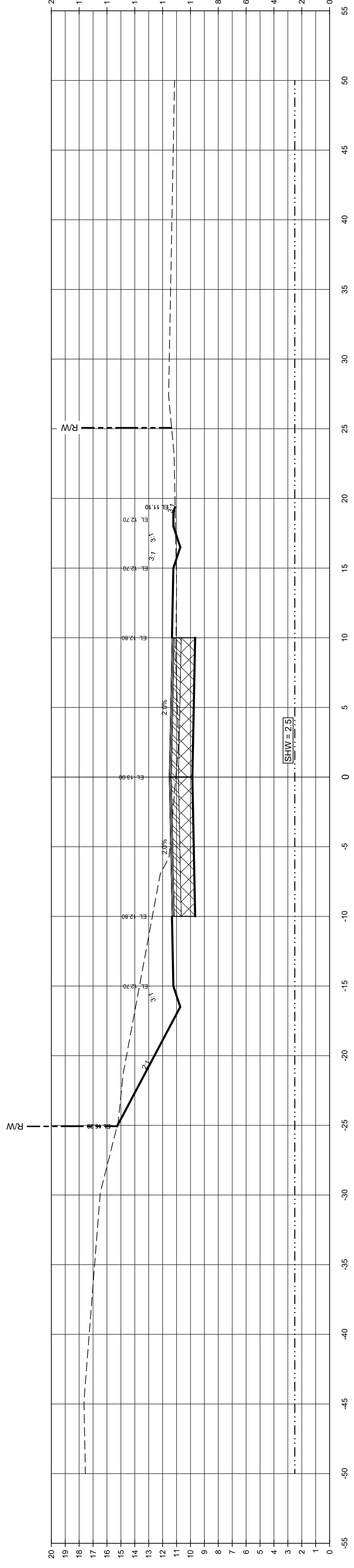
SHEET NUMBER  
**16**  
 PROJECT NUMBER  
**26035**



STA 1+00



STA 1+50



STA 2+00

SCALE: 1" = 5'

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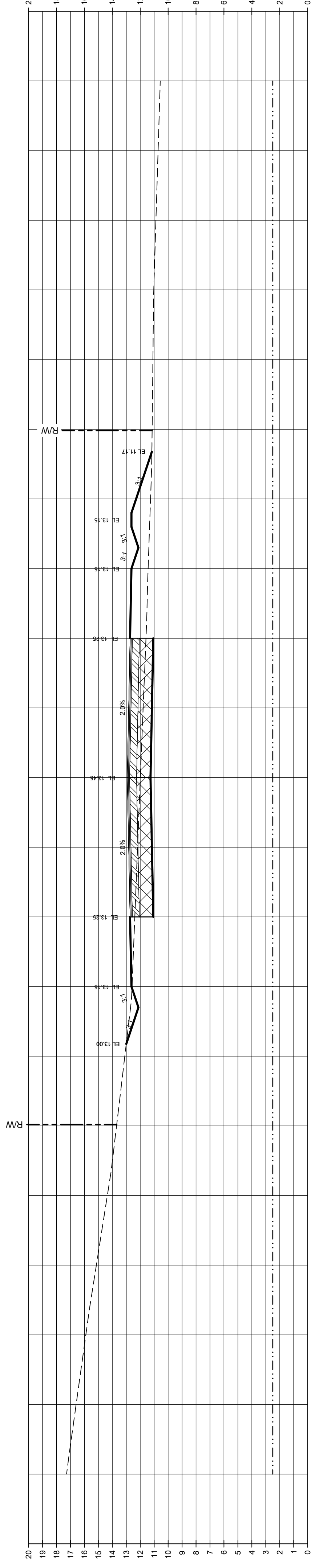
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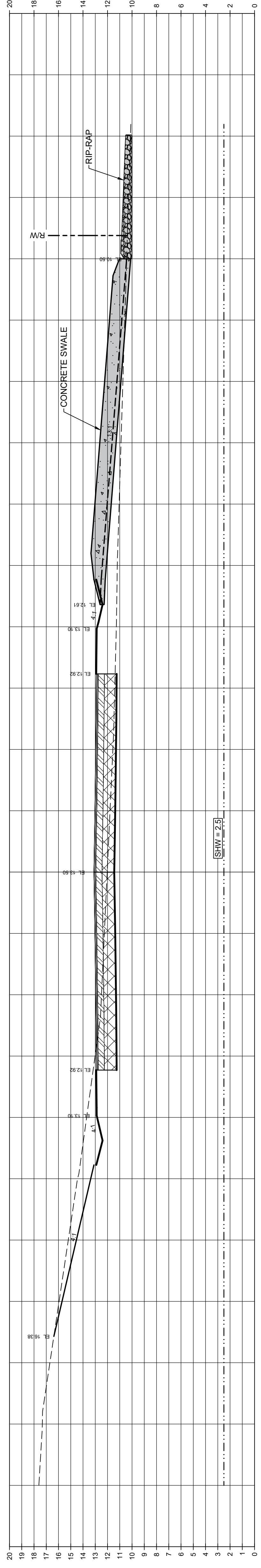
**CROSS SECTIONS  
 IMPERIAL DRIVE  
 CALLAWAY, FLORIDA**

JAMES H. BROWN, P.E. 39127  
 STEPHAN E. PRYDE, P.E. 71846  
 J. DOUG COOK, P.E. 66556  
 PROJECT NUMBER  
**26035**  
 SHEET NUMBER  
**17**  
 DPR CERTIFICATION # EB-7036

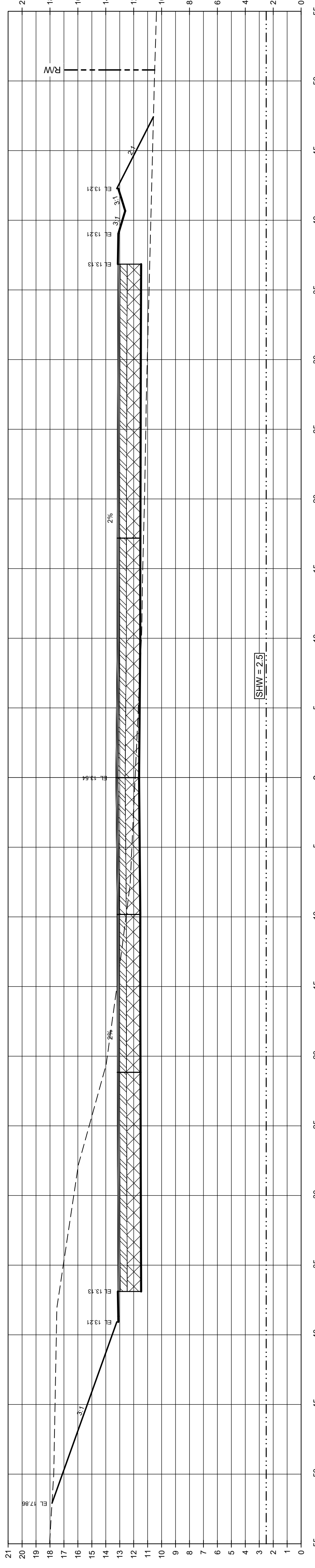




STA 4+00



STA 4+27



STA 4+50

SCALE: 1" = 5'

REV	DATE	BY	REVISIONS

SCALE: AS NOTED  
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 (850) 769-5200 www.panhandleengineering.com

**CROSS SECTIONS  
 IMPERIAL DRIVE  
 CALLAWAY, FLORIDA**

JAMES H. SHORIN, P.E. 33177  
 STEPHAN E. PRUE, P.E. 71646  
 J. DOUG COOK, P.E. 66566

SHEET NUMBER  
**19**  
 PROJECT NUMBER  
**26035**



**EROSION AND SEDIMENT CONTROL NOTES**

- CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINAL STABILIZATION.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL. IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS, FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-32 AND/OR 17-29, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.12-1403.101 FLORIDA STATUTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL. ASSOCIATED WITH THAT TASK, IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
- TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, SILT FENCES, AND TURBIDITY BARRIERS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH FOOT SPECIFICATIONS. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
- PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS AS SHOWN ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTIONS 12 AND 13. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED THEN PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 570 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SLOPES GREATER THAN OR EQUAL TO 2:1. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY BE NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- THE CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- CONTROL OF SEDIMENT-LOADED RUNOFF SHALL BE PROVIDED WITH GEOTECH-STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTION TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ON-SITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
- ALL CATCH BASINS, INLETS AND ACCESS TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).
- EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- ALL INLETS SHALL HAVE SEDIMENT BARRIERS INSTALLED DURING CONSTRUCTION.
- SILT FENCE IS REQUIRED IN ALL AREAS AS DIRECTED BY THE ENGINEER.

**MAINTENANCE**

- THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES, UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. IF TECHNICAL SPECIFICATIONS ARE NOT PROVIDED, THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
- SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE.

**DEWATERING NOTES**

IF DEWATERING IS NECESSARY, THE CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: DOUG WARNET, FDEP NW DIST. WASTEWATER SECTION, EMAIL: douglas.warnet@state.fl.us PHONE: 850.595.0593)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING POND AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST WATER QUALITY STANDARDS, CHAPTER 62-3, FLORIDA ADMINISTRATIVE CODE, AND THE NORTHWEST WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

ADDITIONAL SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO DISCHARGE.

THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

**GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:**

- A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.
- VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED FROM THE PUMP.
- VACUUM WELLS CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELLS SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE PUMPS.
- DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE.

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DESIGNED BY:	CBF
DRAWN BY:	CAK
REVIEWED BY:	CBF
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 (850) 759-5200 www.panhandleengineering.com

**EROSION CONTROL DETAILS  
 IMPERIAL DRIVE  
 CALLAWAY, FLORIDA**

James H. Shuman, P.E. 33177  
 Stephen E. Price, P.E. 17166  
 J. Doug Cook, P.E. 6656

FLORIDA PROFESSIONAL ENGINEERING CERTIFICATION #EEB-7038

SHEET NUMBER

110

PROJECT NUMBER

26035

DFP CERTIFICATION #EEB-7038

**ENVIRONMENTAL SEQUENCE**  
 THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION.

**SEQUENCE OF MAJOR ACTIVITIES:**

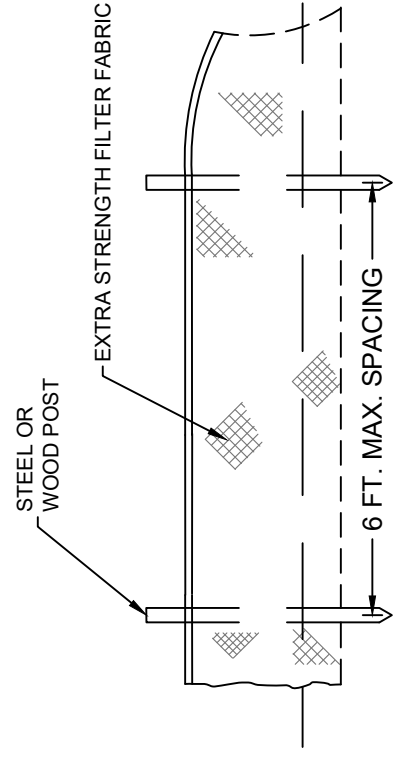
- THE FOLLOWING ACTIVITIES WILL BE AS PERMITTED BY THE PERMITS:
- INSTALL STABILIZED CONSTRUCTION CURBS AND GUTTER.
- COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
- COMPLETE FINAL PAVING.
- REMOVE ACCUMULATED SEDIMENT FROM BASINS.
- WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE, STABILIZE, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED.
- STABILIZE EXPOSED AREA AND STAPLES AS SHOWN AS PRACTICABLE.

**TIMING OF CONTROLS/MEASURES**

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE. MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONSTRUCTION OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

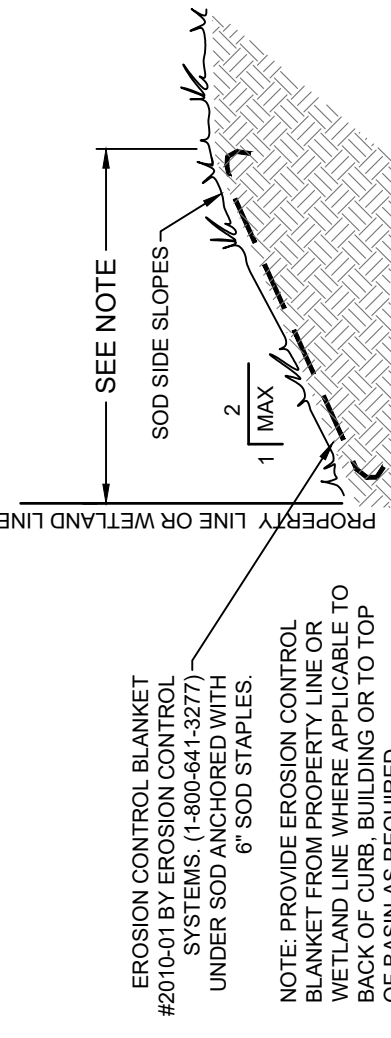
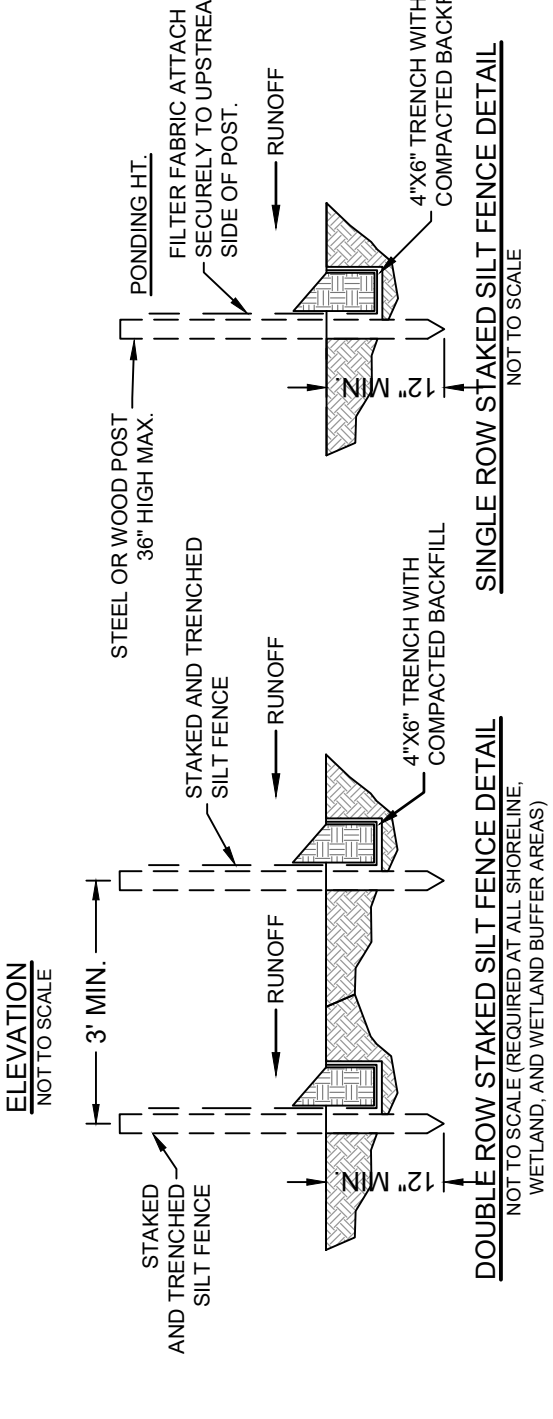
TABLE 4-1 GROUNDWATER DISCHARGE - SCREENING VALUES	
PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L
PH, STANDARD UNITS	6.0 - 8.5
TOTAL RECOVERABLE MERCURY	0.012 ug/L
TOTAL RECOVERABLE CADMIUM	9.3 ug/L
TOTAL RECOVERABLE COPPER	2.8 ug/L
TOTAL RECOVERABLE LEAD	0.03 ug/L
TOTAL RECOVERABLE ZINC	86.0 ug/L
TOTAL RECOVERABLE CHROMIUM (HEX)	11.0 ug/L
BENZENE	1.0 ug/L
METHYLENE	100.0 ug/L

mg/L = milligrams per liter  
 ug/L = micrograms per liter



**NOTE:**

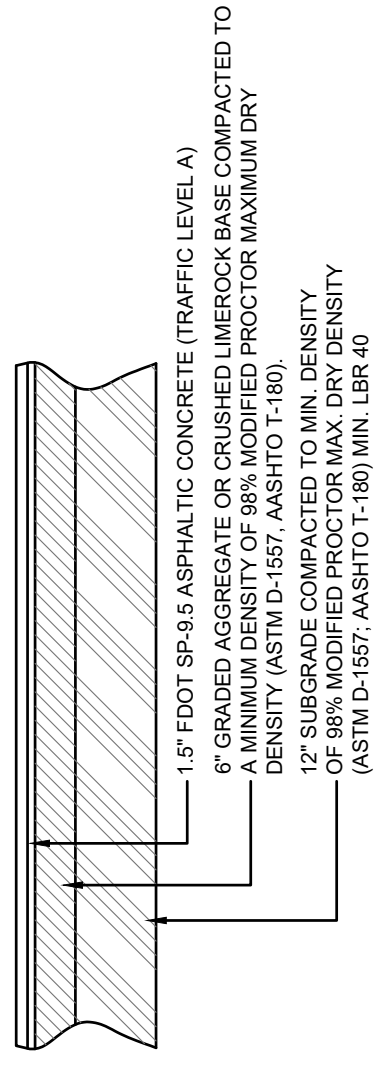
- STAPLES AND REBAR FENCE SHALL BE PLACED AFTER EACH STAPLE AND REMOVE SEDIMENTS NO LATER THAN WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER.
- AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE FLOWING EFFICIENCY.



**SLOPE STABILIZATION DETAIL**

- SLOPE STABILIZATION NOTES  
 NOT TO SCALE
- FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.
  - 1:3 TO 1:2 - SOD LAPPED AND PINNED.
  - 1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD.
  - 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

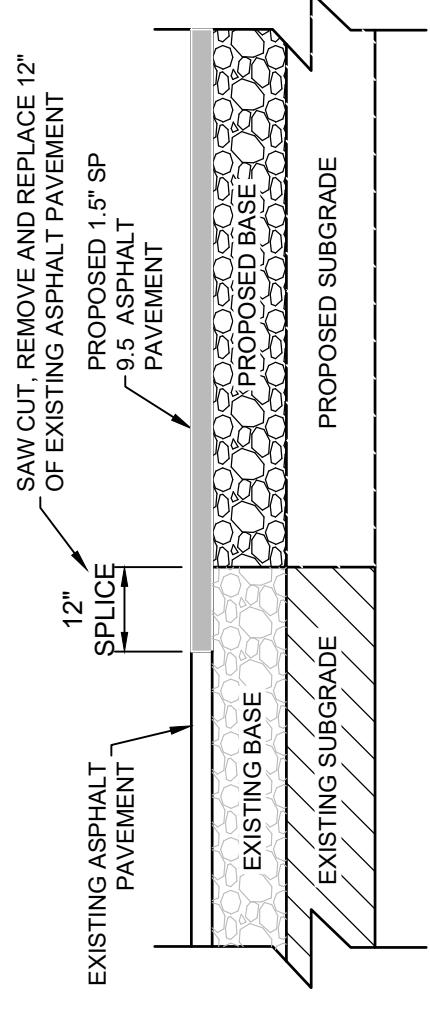
NOTE:  
 AREAS NOT COVERED TO BE STABILIZED WITH HYDROSEEDING.  
 SEE SLOPE STABILIZATION DETAIL THIS SHEET.



- PAVEMENT NOTES:**
- CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 1' FROM THE PERIMETER.
  - FILL MATERIAL SHALL BE CLEAN SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THE 12% FINER THAN THE U.S. No. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY AND COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (AASHTO T-180).
  - DRY DENSITY PER MODIFIED PROCTOR (AASHTO T-180).

**ASPHALT PAVEMENT DETAIL**

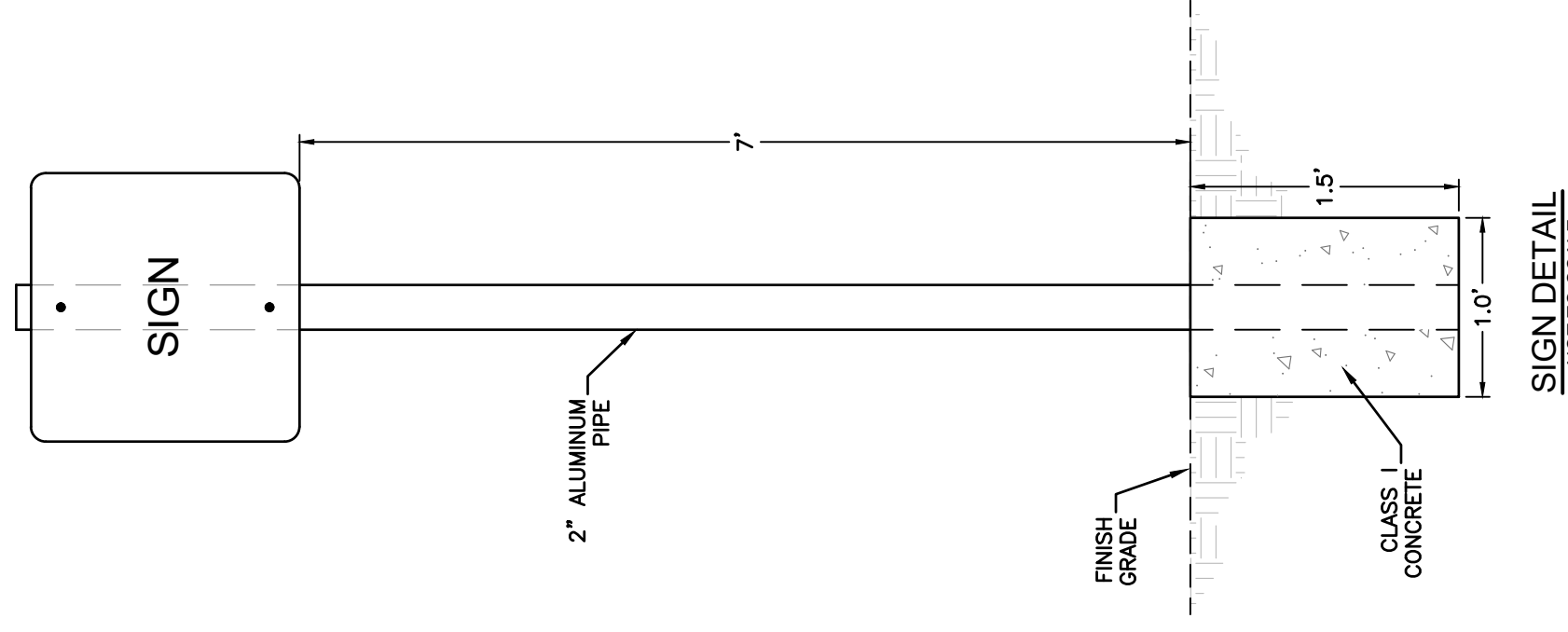
NOT TO SCALE



- NOTES:**
- PROVIDE ASPHALT SPLICE AT ALL TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENT SECTIONS.
  - RESTORE EXISTING BASE TO ORIGINAL CONDITION OR BETTER.

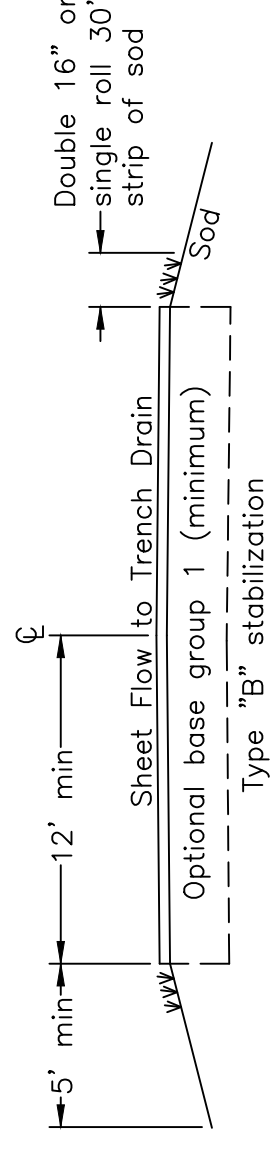
**ASPHALTIC PAVEMENT RECONSTRUCTION AND SPLICE DETAIL**

NOT TO SCALE

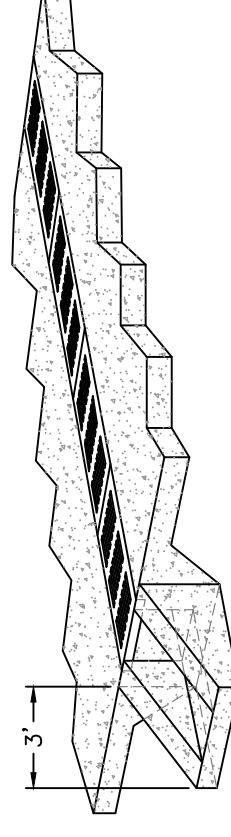


**SIGN DETAIL**

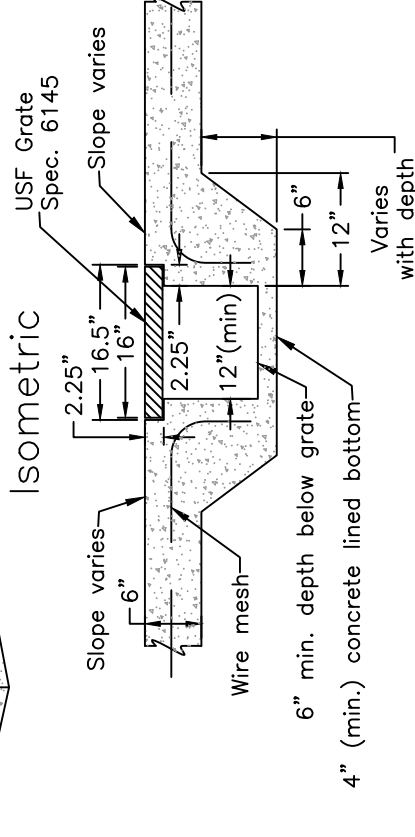
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**Driveway Cross Section**



**Typical Section 1**



**Typical Section 2**

- Notes:**
- Concrete dimensions are typical on each side.
  - Concrete to be F.O.D.T. specification Class 1 Portland cement concrete. Use 4" thick for commercial driveways or 4" thick for residential driveways.
  - 8" trench width is minimum. Engineer to size based on existing flow conditions.
  - Soil stabilization requirements (Classes noted as vertical):
    - flat to 1:3 - seed and mulch, hydro-seed, sod (type and application rate per F.O.D.T. Index 105)
    - 1:3 to 1:2 - sod lapped and pinned with seeding
    - 1:2 to 1:1 - sod lapped and pinned with seeding
    - 1:1 or greater - retaining wall or armorform
  - All sod placed staggered per F.O.D.T. Index 105.
  - Trench width to be sized based on actual flow conditions.

**CONCRETE DRIVEWAY TRENCH DRAIN DETAIL**

NOT TO SCALE



**CONSTRUCTION DETAILS  
IMPERIAL DRIVE**

CALLAWAY, FLORIDA

REV	DATE	BY	REVISIONS	SCALE	AS NOTED
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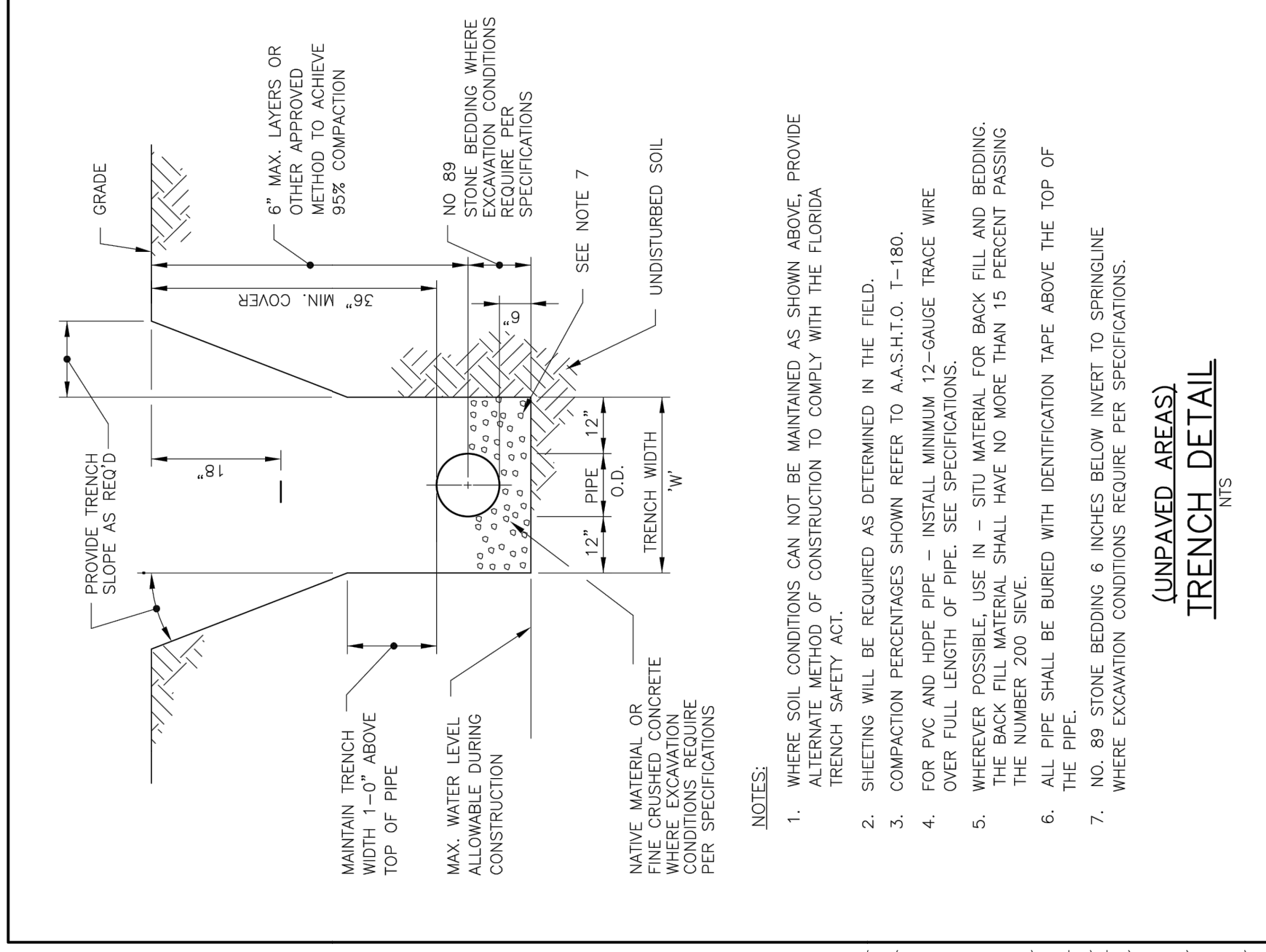
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Stephen E. Price, P.E. 71646  
J. Doug Cook, P.E. 66566

SHEET NUMBER  
**111**

PROJECT NUMBER  
**26035**

DPR CERTIFICATION # EB-7638





P:\1024\15483\20p\p\p\p\FIGURES-2\01/17/08 13:10 SMH.DWG



Figure 8-2  
City of Callaway  
Trench Detail

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Excl. Joints Centered)
Storm Sewer, Stormwater Force Main, Recaptured Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches is the minimum and 6 inches preferred	Water Main Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer Force Main, Recaptured Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Water Main Alternate 6 ft. minimum
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.  
 (2) Recaptured water regulated under Part III of Chapter 62-501, F.A.C.  
 (3) Recaptured water regulated under Part III of Chapter 62-501, F.A.C.  
 (4) Recaptured water not regulated under Part III of Chapter 62-501, F.A.C.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-563.14 for additional construction requirements.

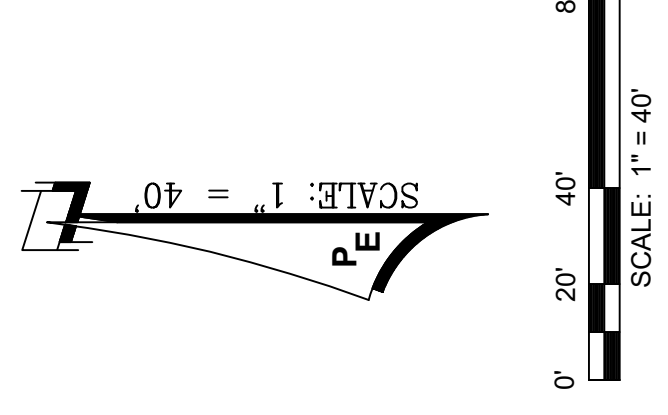
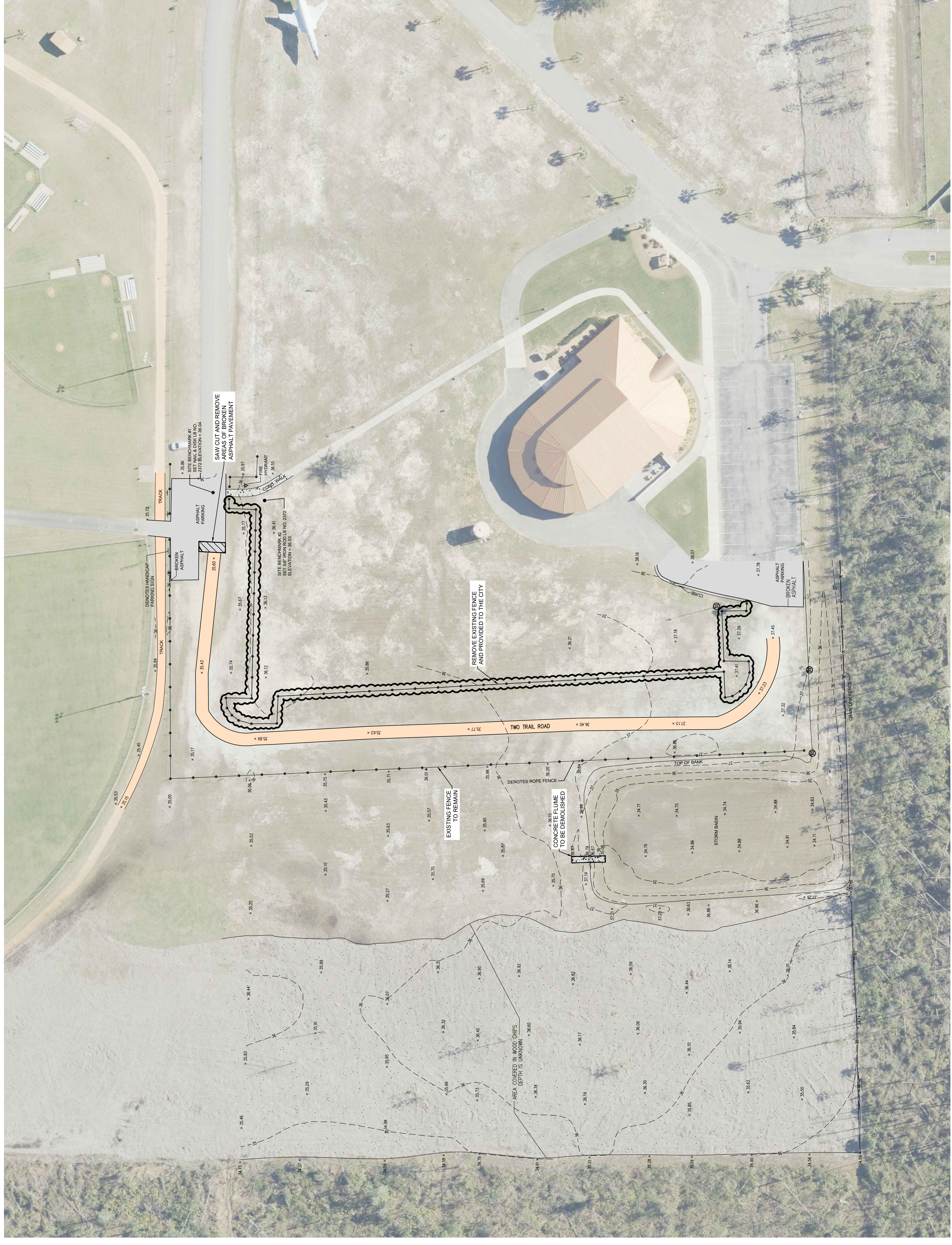
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				DESIGNED BY: CBF	
				DRAWN BY: CAK	
				REVIEWED BY: CBF	
				ISSUE DATE: APRIL 2022	
				ACAD FILE NAME: 26035e1.dwg	
NOT				RELEASED FOR CONSTRUCTION BY: DATE:	

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 600 Ohio Avenue, Suite 100, Callaway, Florida 32944  
 (850) 759-5200 www.panhandleengineering.com

UTILITY DETAILS  
 IMPERIAL DRIVE  
 CALLAWAY, FLORIDA

JAMES H. SHAWNA, P.E. 33177  
 STEPHAN E. PRYDE, P.E. 71646  
 J. DOUG COOK, P.E. 66556

SHEET NUMBER  
**113**  
 PROJECT NUMBER  
**26035**



ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION REFERENCE USE OF THE BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PERFORMED PERFORMERS AS OBTAINED IN RULE 54-17, FLORIDA ADMINISTRATIVE CODE PRIOR TO ANY CONSTRUCTION. THE BENCHMARKS SHOWN HEREON ARE THE BENCHMARKS TO BE USED FOR THE PROJECT. THE BENCHMARKS TO BE USED FOR THE PROJECT ARE BENCHMARKS TO BE USED FOR THE PROJECT. THE BENCHMARKS TO BE USED FOR THE PROJECT ARE BENCHMARKS TO BE USED FOR THE PROJECT.

A REVIEW OF FLOOD INSURANCE RATE MAP NUMBER 2200300500H FOR BAY COUNTY, FLORIDA, INDICATES THAT THE PROJECT IS LOCATED WITHIN FLOOD ZONE X. EFFECTIVE DATE: JUNE 7, 2009. INDICATES THAT THE PROJECT IS LOCATED WITHIN FLOOD ZONE X.

- LEGEND**
- EXISTING MANHOLE
  - EXISTING LIGHT POLE
  - EXISTING POWER POLE
  - EXISTING CITY ANCHOR
  - SIGN
  - EXISTING FENCE
  - EXISTING FIRE HYDRANT
  - EXISTING SPOT GRADE
  - EXISTING CONTOURS
  - EXISTING CONCRETE TO REMAIN
  - EXISTING ASPHALT TO REMAIN
  - EXISTING ASPHALT TO BE REMOVED
  - EXISTING FENCE TO BE REMOVED

**SURVEY PROVIDED BY:**  
**BUCHANAN & HARPER, INC.**  
 735 WEST 11TH STREET  
 PANAMA CITY, FL 32401  
 PHONE: (850) 763-7427

**EXISTING CONDITIONS AND DEMOLITION PLAN**  
**CALLAWAY RECREATIONAL COMPLEX**  
**LOOP ROAD**  
**CALLAWAY, FLORIDA**

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 5405 South Highway 77 • Panama City, Florida 32404  
 (850) 763-9200 Fax (850) 763-0730 www.panhandleengineering.com

SCALE: AS NOTED
DESIGNED BY: JDC
DRAWN BY: JAH
REVIEWED BY: CRF
ISSUE DATE: APRIL 2021
ACAD FILE NAME: 26027.dwg

REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE: \_\_\_\_\_

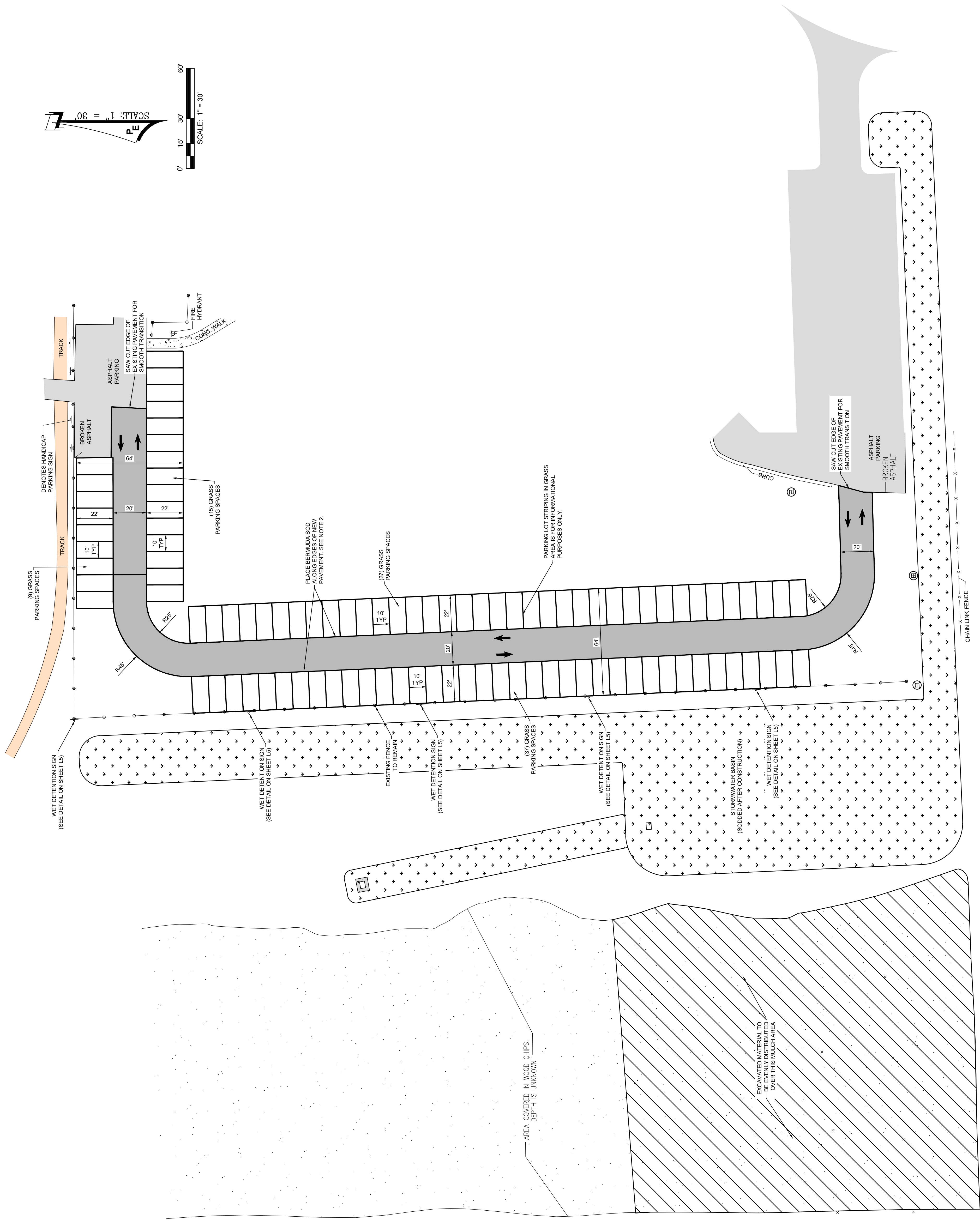
James H. Shorin, P.E. 13197  
 Christopher B. Forstner, P.E. 5029  
 Stephen E. Price, P.E. 71666  
 J. Doug Gentry, P.E. 6666

**PROFESSIONAL ENGINEER**  
 STATE OF FLORIDA  
 NO. 66566  
 LANCE D. GROSS, ENGINEER

SHEET NUMBER  
**L1**

PROJECT NUMBER  
**26027**

DPR CERTIFICATION #EEB-7026



**LEGEND**

- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING CLEANOUT
- EXISTING MANHOLE
- EXISTING LIGHT POLE
- SIGN
- EXISTING FENCE
- EXISTING FIRE HYDRANT
- RELOCATED FENCE
- PROPOSED ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- AREA TO BE SODDED (BERMUDA)

**PARKING DATA**  
98 PARKING SPACES

**SITE NOTES:**

1. INSTALL BERMUDA SOD ON ALL DISTURBED AREAS. ALL SOD TO BE STAGGERED.
2. PLACE DOUBLE 16" OR SINGLE ROLL 30" STRIP OF SOD ALONG EDGES OF ALL NEW PAVEMENT.
3. ALL NEW PAVEMENT SHALL BE PLACED IN 3" CONSECUTIVE DAYS AFTER PLACEMENT THIS SHALL BE INCLUDED IN THE BID PRICE.
4. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
5. ALL DEMOLISHED MATERIALS (i.e. SIGNS, CONCRETE, ASPHALT, ETC.) TO BE REMOVED AND DISPOSED OF IN LEGAL MANNER.
6. TESTING SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
7. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE VERIFIED PRIOR TO THE START OF CONSTRUCTION.
8. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

**SITE PLAN**  
**CALLAWAY RECREATIONAL COMPLEX**  
**LOOP ROAD**  
**CALLAWAY, FLORIDA**

**PANHANDLE ENGINEERING, INC.**  
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
5XW5 South Highway 77, Highways 77 & 224  
Aurora, Florida 32024  
(850) 765-9200 Fax (850) 765-0730 www.panhandleengineering.com

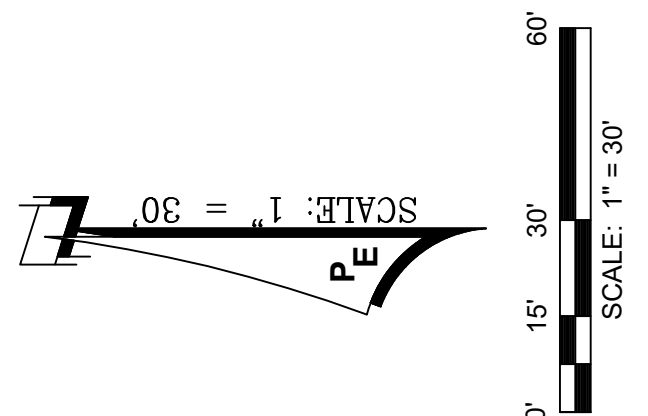
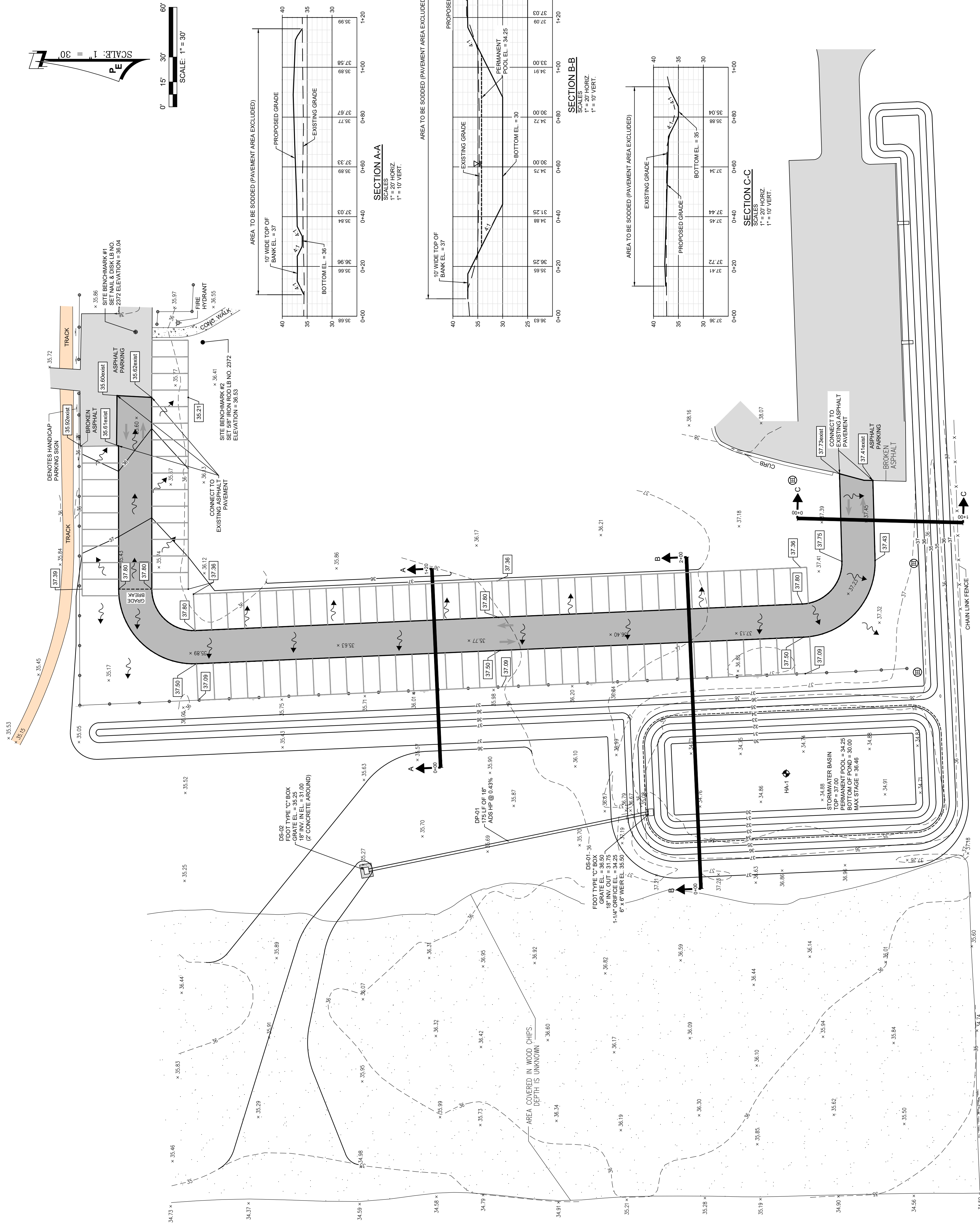
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DESIGNED BY:	JDC				
DRAWN BY:	JAH				
REVIEWED BY:	CRF				
ISSUE DATE:	APRIL 2021				
ACAD FILE NAME:	26027d1.dwg				

REV	DATE	BY	REVISIONS	SCALE	AS NOTED
RELEASED FOR CONSTRUCTION BY:	DATE:				

James H. Shorin, P.E. 33197  
Christopher B. Forehand, P.E. 50298  
Stephen E. Phipp, P.E. 71668  
L. Doug Gandy, P.E. 66266  
NO. 66566  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
LARRY D. CROOK  
ENGINEER

SHEET NUMBER  
**L2**  
PROJECT NUMBER  
**26027**

DPR CERTIFICATION #EEB-7026

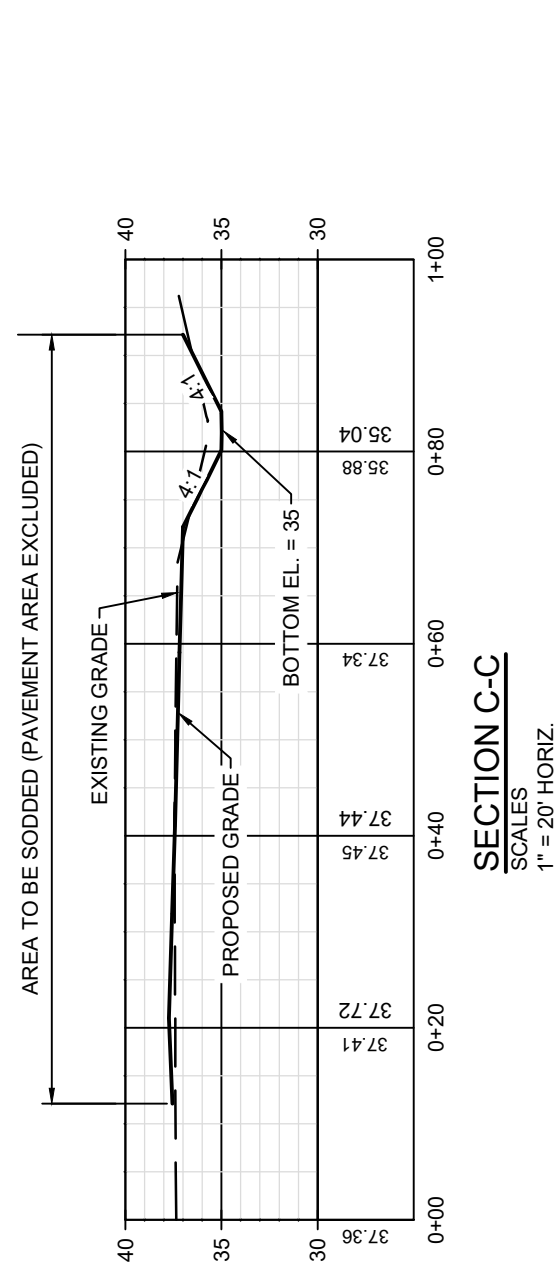
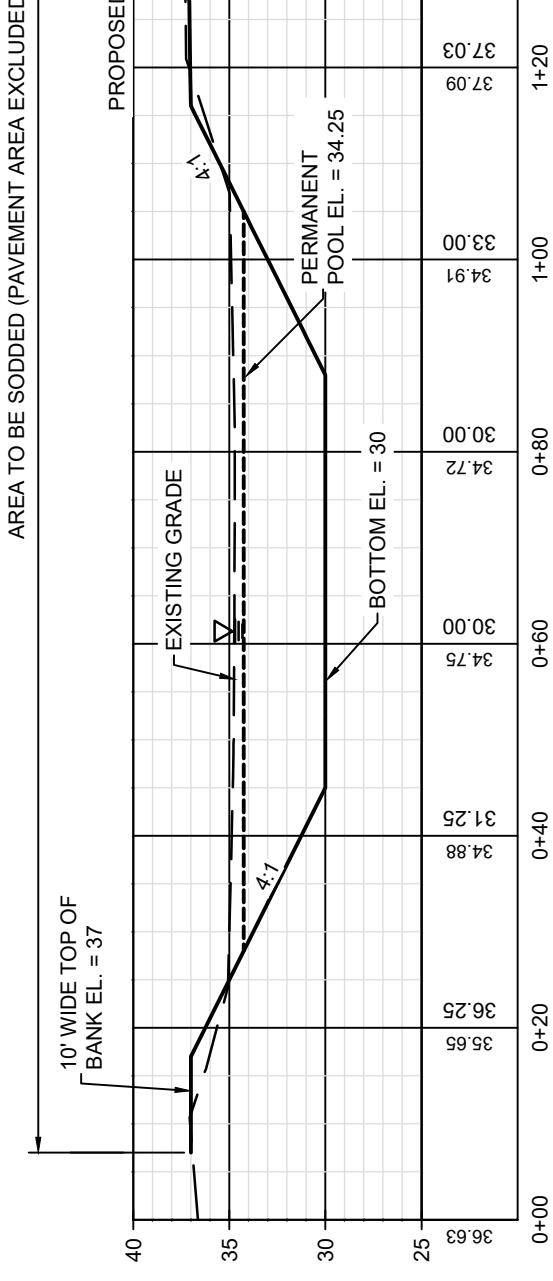
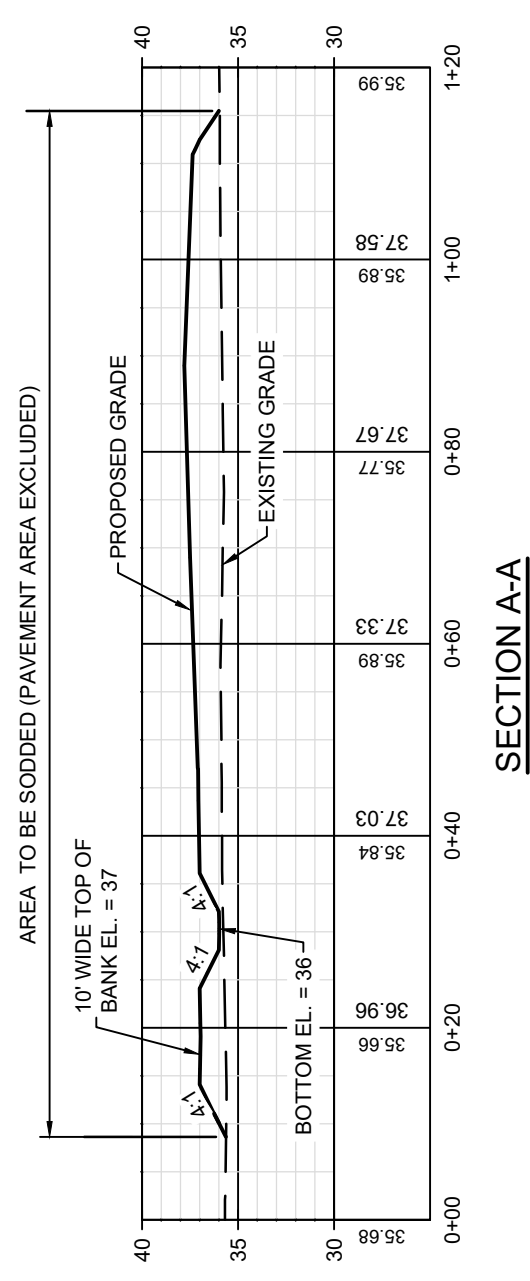


**LEGEND**

- EXISTING MANHOLE
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING GUY ANCHOR
- SIGN
- EXISTING FENCE
- EXISTING FIRE HYDRANT
- TEST HOLE AND DESIGNATION
- EXISTING SPOT GRADE
- PROPOSED FINISH GRADE
- EXISTING GRADE CONTOUR
- STORMWATER FLOW ARROW
- GRADE BREAK
- PROPOSED DRAINAGE INLETS
- PROPOSED STORM PIPE
- PROPOSED ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT

**NOTES:**

- EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION.
- EXISTING ASPHALT SHALL BE FIELD IDENTIFIED IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.



**NOTES:**

- "INLETS PER FOOT STD. PLANS INDEX 425-092 (SEE DETAILS SHEET L5)
- ALL STORM STRUCTURES TO HAVE TIL SWIMPS.
- ALL DISTURBED AREAS SHALL BE SOGGED.

**GRADING AND DRAINAGE PLAN  
 CALLAWAY RECREATIONAL COMPLEX  
 LOOP ROAD  
 CALLAWAY, FLORIDA**

**PANHANDLE ENGINEERING, INC.**  
 ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
 5405 South Highway 77, Hesperia, Florida 32444  
 (850) 763-9200 Fax: (850) 763-0730 www.panhandleengineering.com

REV	DATE	BY	REVISIONS

SCALE: AS NOTED	DESIGNED BY: JDC
DRAWN BY: JAH	REVIEWED BY: CBF
ISSUE DATE: APRIL 2021	ACAD FILE NAME: 26027a1.dwg
RELEASED FOR CONSTRUCTION BY: DATE	DATE

James H. Shonka, P.E. 33197  
 Christopher B. Forehand, P.E. 59028  
 Stephen E. Price, P.E. 71666  
 J. Doug Gentry, P.E. 66666

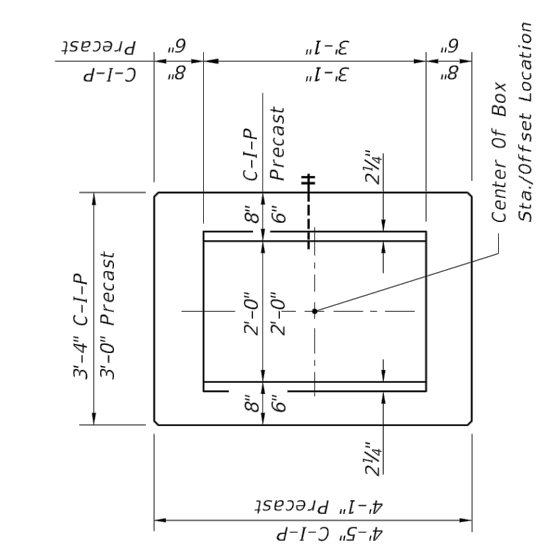
**PROFESSIONAL ENGINEER**  
 STATE OF FLORIDA  
 NO. 66566  
 LAMES D. CROOK REGISTERED PROFESSIONAL ENGINEER

SHEET NUMBER  
**L3**  
 PROJECT NUMBER  
**26027**

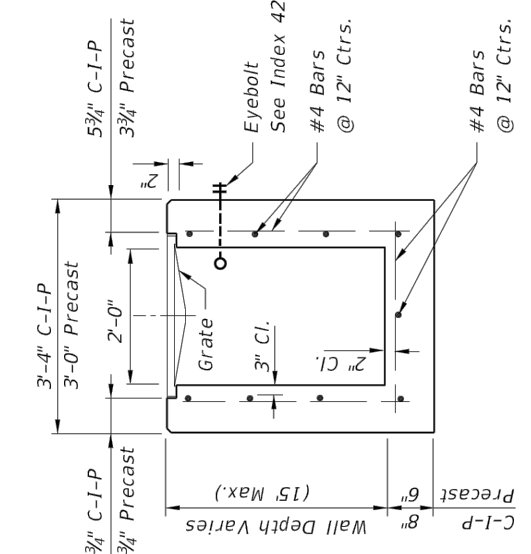
DPR CERTIFICATION #EEB-7026







PLAN

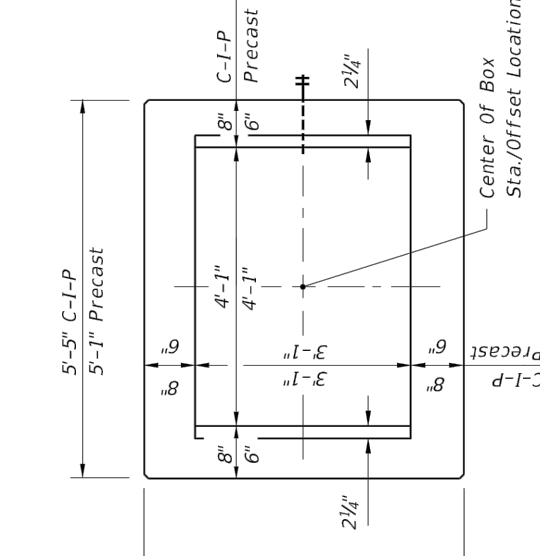


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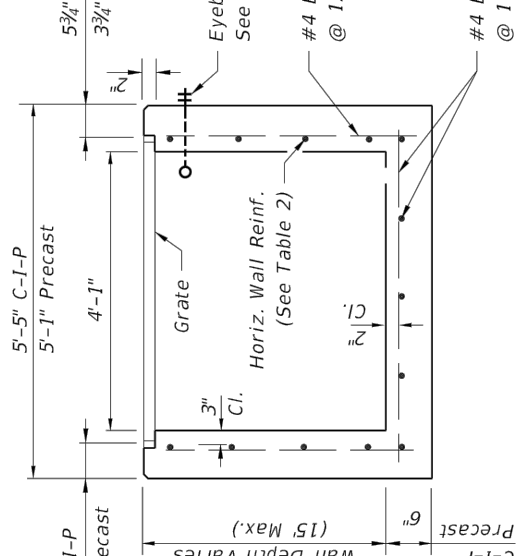
HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in <sup>2</sup> /ft.)	MAX. SPACING (in)	BARS	WWR
0'-6"	A12	0.20	12"	8"	8"
6'-10"	A6	0.20	6"	5"	5"
10'-13"	A4	0.20	4"	3"	3"
10'-15"	B5.5	0.24	5 1/2"	5 1/2"	5"

TYPE C  
Recommended Maximum Pipe Size:  
2'-0" Wall - 18" Pipe  
3'-1" Wall - 24" Pipe (18" where an 18" pipe circles a 2'-0" wall)  
4'-1" Wall - 36" Pipe



PLAN

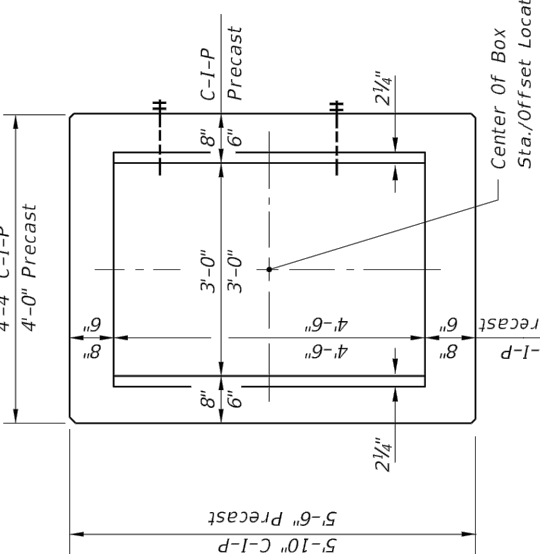


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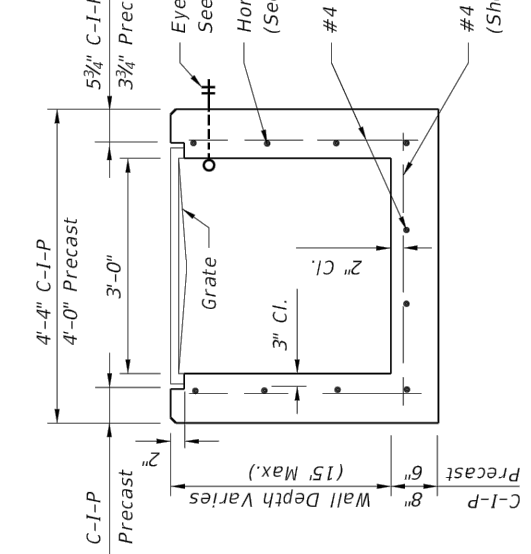
HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in <sup>2</sup> /ft.)	MAX. SPACING (in)	BARS	WWR
0'-6"	A12	0.20	12"	8"	8"
6'-10"	A6	0.20	6"	5"	5"
10'-13"	A4	0.20	4"	3"	3"
10'-15"	B5.5	0.24	5 1/2"	5 1/2"	5"

TYPE D  
Recommended Maximum Pipe Size:  
3'-1" Wall - 24" Pipe  
4'-1" Wall - 36" Pipe



PLAN



SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

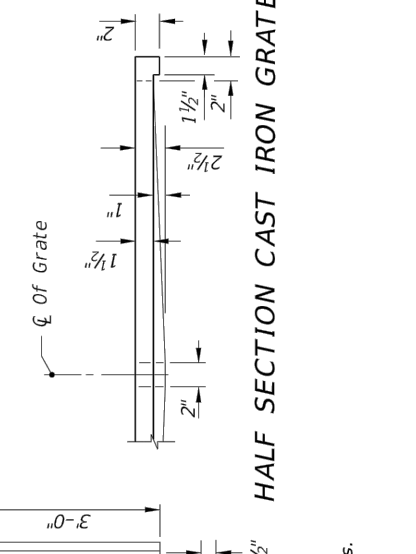
WALL DEPTH	SCHEDULE	AREA (in <sup>2</sup> /ft.)	MAX. SPACING (in)	BARS	WWR
0'-5"	A12	0.20	12"	8"	8"
0'-7.5"	A6	0.20	6"	5"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6 1/2"	6"

TYPE E  
Recommended Maximum Pipe Size:  
3'-0" Wall - 24" Pipe  
4'-0" Wall - 36" Pipe

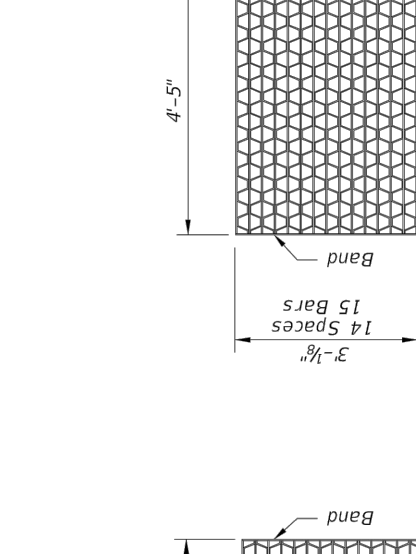
REVISION	DATE	DESCRIPTION
11/01/17		

STANDARD PLANS	INDEX	SHEET
FDOT FY 2020-21	425-052	1 OF 7

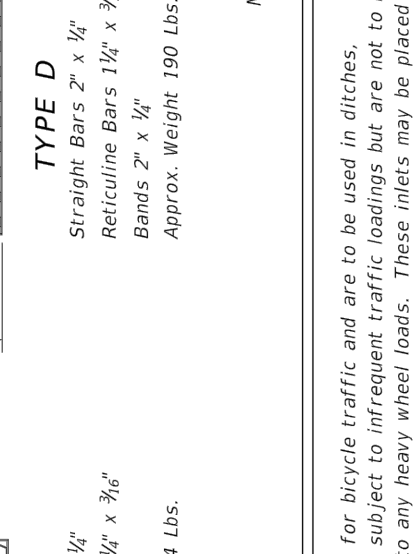
DESCRIPTION	INDEX	SHEET
DITCH BOTTOM INLET TYPES C, D, E AND H	425-052	1 OF 7



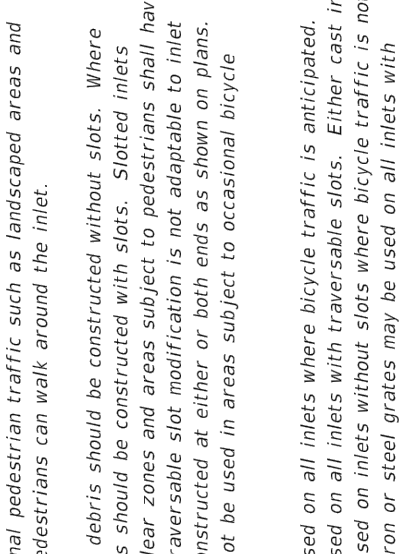
TYPE C  
Approx. Weight 235 Lbs.



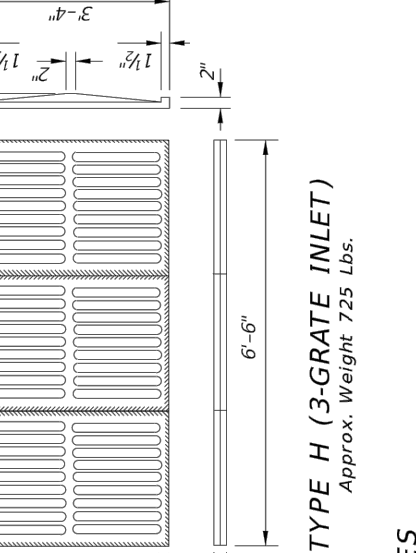
TYPE E  
Approx. Weight 465 Lbs.



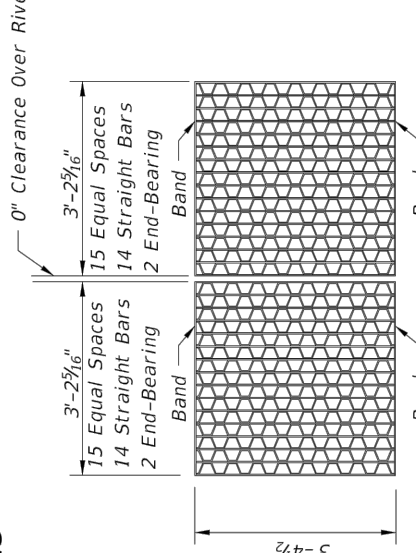
TYPE H (3-GRATE INLET)  
Approx. Weight 725 Lbs.



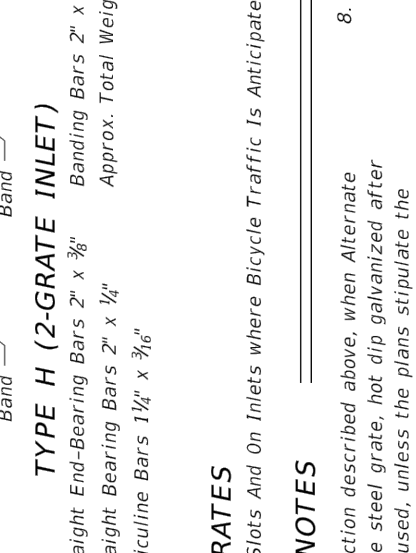
TYPE H (4-GRATE INLET)  
Approx. Weight 867 Lbs.



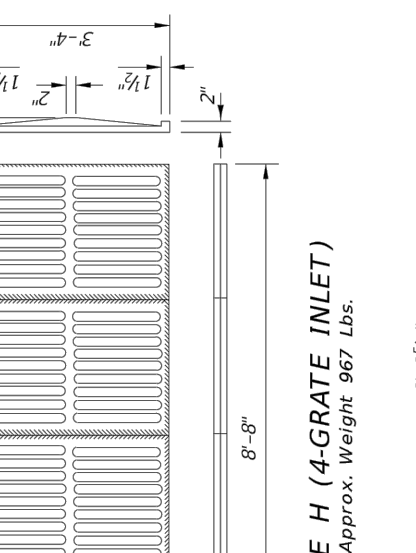
TYPE E  
Approx. Weight 215 Lbs.



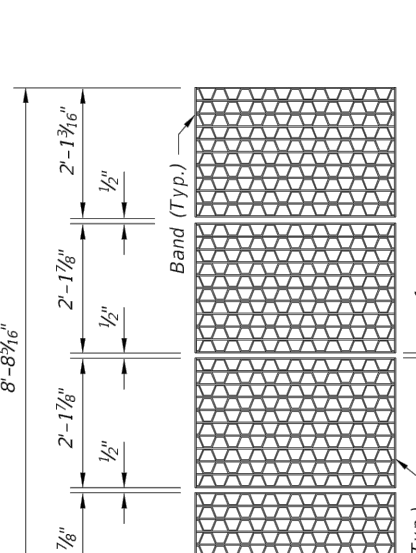
TYPE H (2-GRATE INLET)  
Approx. Weight 310 Lbs.



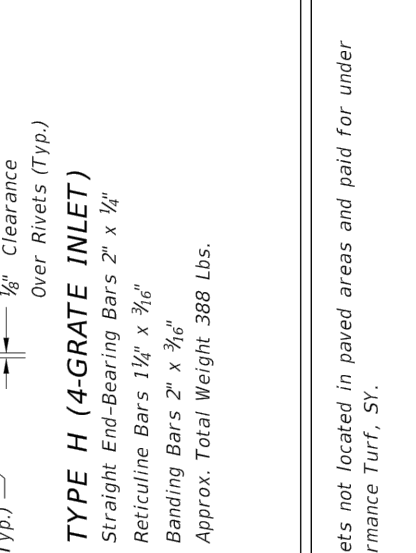
TYPE H (4-GRATE INLET)  
Approx. Total Weight 388 Lbs.



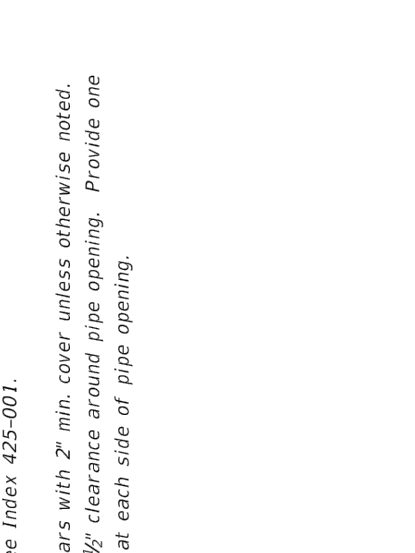
TYPE E  
Approx. Weight 190 Lbs.



TYPE D  
Approx. Weight 104 Lbs.



TYPE C  
Approx. Weight 104 Lbs.



TYPE E  
Approx. Weight 190 Lbs.

**GENERAL NOTES**

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to frequent traffic loadings but are not to be used in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Inlets located within roadway clear zones and areas subject to pedestrian shall have traversable slots. The traversable slot modification is not adaptable to inlet types C, D, E, and H. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when alternate grate is specified in the plans, either the steel grate, the dip galvanized after treatment grate, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be selected for fit.
- All exposed edges and corners shall be 1/4" chamfer or tool to 1/4" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with traversable slots inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For construction work and method of payment, see TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS.
- Soldering to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Test, S1.
- For supplementary details see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Additional #4 bar above and at each side of pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

REVISION	DATE	DESCRIPTION
11/01/17		

STANDARD PLANS	INDEX	SHEET
FDOT FY 2020-21	425-052	3 OF 7

DESCRIPTION	INDEX	SHEET
DITCH BOTTOM INLET TYPES C, D, E AND H	425-052	3 OF 7

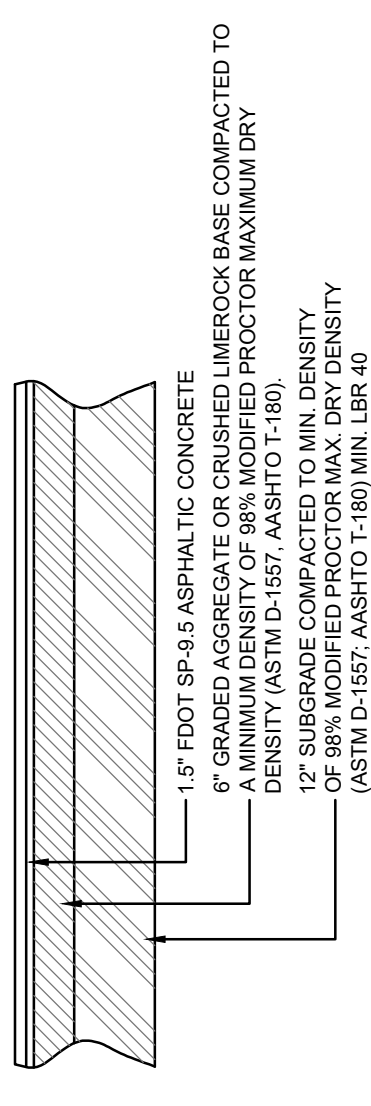
REVISION	DATE	DESCRIPTION
AS NOTED		

DESIGNED BY	DRAWN BY	REVIEWED BY	ISSUE DATE	ACAD FILE NAME
JDC	JAH	CRF	APRIL 2021	26027a1.dwg

RELEASED FOR CONSTRUCTION BY: DATE:

ENVIRONMENTAL ENGINEERS & CIVIL ENGINEERS • LAND PLANNERS  
5405 South Highway 77 • Hialeah, Florida 33044  
(800) 763-9200 • Fax (800) 763-0730 • www.panhandleengineering.com

**PANHANDLE ENGINEERING, INC.**



ASPHALT PAVEMENT DETAIL  
NOT TO SCALE

- PAVEMENT NOTES:**
1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 1 FT. MIN. BEYOND THE EDGE OF PAVEMENT.
  2. ALL MATERIALS TO BE PLACED TO SLIGHTLY SLTY SANDS. CONTAINING NO MORE THAN 10% FINER THAN THE U.S. No. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY.
  3. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (ASHOTO T-99).

1.5" FOOT SP-9.5 ASPHALTIC CONCRETE  
6" GRADED AGGREGATE OR CRUSHED LIMESTONE BASE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (ASHOTO T-99)  
12" SUBGRADE COMPACTED TO MIN. DENSITY (ASTM D-1557, ASHTO T-99) MIN. LBR 40

INSTALL WET DETENTION SIGNS IN LOCATIONS AS INDICATED IN PLAN VIEW



WET DETENTION SIGN DETAIL  
NOT TO SCALE

STORMWATER FACILITY  
NO FISHING OR SWIMMING PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT PERMIT No. XXXX

3" STAINLESS STEEL CARRIAGE BOLTS WITH NUTS & WASHERS

4" x 4" x 7/8" PRESSURE TREATED POST

FINISH GRADE

CLASS 1 CONCRETE

1.0'

1.5'

3.0'

STORMWATER FACILITY NO FISHING OR SWIMMING PER NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT PERMIT No. XXXX

4" THICK 2,500 PSI CONCRETE PERIMETER APRON AT GROUND LEVEL

2" PVC TEE

1 1/4" CIRCUIT INV. EL. = 34.25

6" x 6" WEIR EL. = 35.50

SKIMMER

TOP OF STRUCTURE ELEV. = 36.50

SET BENCHMARK

GRATE

FOOT TYPE "C" INLET

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'

2.0'



