

**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIR**

**BIDDING AND CONSTRUCTION  
CONTRACT DOCUMENTS AND  
TECHNICAL SPECIFICATIONS**

Jones Edmunds Project No. 02620-013-01

*Owner:*

**BRADFORD COUNTY**  
945 North Temple Avenue  
Starke, Florida 32091

*Engineer:*

**JONES EDMUNDS & ASSOCIATES, INC.**  
730 NE Waldo Road  
Gainesville, Florida 32641

PE Certificate of Authorization #1841

May 2016

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**BIDDING AND CONSTRUCTION  
CONTRACT DOCUMENTS**

## ADVERTISEMENT FOR BIDS

Sealed bids will be received by the Bradford County Board of County Commissioners for stormwater system repairs at the:

### **Bradford County Central Landfill SR 100 (2 miles north of Keystone Heights, Florida)**

The Contract Documents, consisting of Advertisement for Bids, Invitation to Bid, Bid Form, General Conditions, Specific Conditions, and Drawings, may be examined at the Bradford County Clerk of Court, 945 North Temple Avenue, Starke, Florida 32091, 904-966-6339.

The deadline for submittal is Friday, May 27, 2016, 10:00 A.M. (local time). Bids will be received by the Bradford County Commission at the office of the Clerk of Court. Bids will be publically opened and read aloud.

The project consists of repairing a stormwater downcomer system on the south side slope of the Bradford County Central Landfill. This is a closed Class I landfill. The work will include removal of two 24-inch-diameter corrugated metal pipes (including cover soil excavation and stockpiling), replacement of the metal pipes with ADS N-12 polyethylene drainage pipe of the same diameter, earthwork/compaction of pipe subgrade, grading at the headwall and outfall of the pipes, installation of a fabric-formed concrete mat, grading at the outfall of the pipes, installation of rip-rap, and replacement of cover soil and vegetation. Care will be required to avoid damaging the existing 30-mil PVC landfill cover liner. The Contractor will be required to have landfill liner experience.

The Engineer of Record is Jones Edmunds & Associates, Inc., 730 NE Waldo Road, Gainesville, Florida 32641, 352-377-5821.

To ensure that Bidders receive all addenda and or clarifications to the Bidding Documents in a timely manner, it is mandatory that all Bidders obtain at least one set of Bidding Documents from the Engineer to be eligible to bid on this project. Addenda will be issued via email unless the Bidder requests otherwise. Copies of the documents may be obtained at the Engineer's office for \$25.00 per set, payable by check only, which constitutes the cost for reproduction and handling. Checks shall be payable to Engineer. Payment is non-refundable. Email [bids@jonesedmunds.com](mailto:bids@jonesedmunds.com) for further details to obtain a set of Contract Documents.

All bids must be submitted on the Bid Form provided. Completed bids must be mailed or delivered to the Bradford County Clerk of Court. All bids received after the specified time and date will not be considered. Contact the Engineer at [bids@jonesedmunds.com](mailto:bids@jonesedmunds.com) for further information or clarification.

The Board of County Commissioners of Bradford County, Florida, reserves the right to accept or reject any or all bids, award all or part of the bid, waive any technicality with regard to bids, exercise its local preference ordinance (2013-10/Sec. 2-156), and to interpret the bid specifications in the best interest of Bradford County.

## INVITATION FOR BIDS

PROJECT: Bradford County Central Landfill  
Pond S-2 Stormwater System Repair

OWNER: Bradford County Board of County Commissioners  
945 North Temple Avenue  
Starke, Florida 32091  
Telephone: (904) 966-6339

ENGINEER: Jones Edmunds & Associates, Inc.  
730 NE Waldo Road  
Gainesville, Florida 32641  
Telephone: (352) 377-5821

### 1.0 GENERAL

This Invitation for Bid (IFB) is in accordance with and incorporates by reference the Bradford County Article IV *Purchasing Procedures (adopted November 14, 2013)*.

### 2.0 WORK DESCRIPTION

The Project is at the Bradford County Central Landfill, on State Road 100, 2 miles north of Keystone Heights, Florida.

Bradford County is extending an IFB to perform stormwater system repairs at the closed Class I landfill. The project consists of repairing a stormwater downcomer system on the south side slope of the Bradford County Central Landfill. This is a closed Class I landfill. The work will include removal of two 24-inch-diameter corrugated metal pipes (including cover soil excavation and stockpiling), replacement of the metal pipes with ADS N-12 polyethylene drainage pipe of the same diameter, earthwork/compaction of pipe subgrade, grading at the headwall and outfall of the pipes, installation of a fabric-formed concrete mat, grading at the outfall of the pipes, installation of rip-rap, and replacement of cover soil and vegetation. Care will be required to avoid damaging the existing 30-mil PVC landfill cover liner.

The successful Bidder will be responsible for furnishing and delivering all materials to the landfill in accordance with the specifications, drawings, and contract requirements included as part of the Contract Documents.

### 3.0 RECEIPT OF BIDS

**Questions Due:           Friday, May 20, 2016; 3:00 P.M. (local time)**

**Bids Due:                 Friday, May 27, 2016; 10:00 A.M. (local time)**

Contract Documents may be examined at the Bradford County Clerk of Court, 945 North Temple Avenue, Starke, Florida 32091, between 8:00 A.M. and 5:00 P.M., Monday through Friday. Contract Documents are available for purchase and pickup at Jones Edmunds & Associates, Inc., 730 NE Waldo Road, Gainesville, Florida 32641. Bid packages require payment of \$25.00 per set.

To ensure that Bidders receive all addenda and or clarifications to the Contract Documents in a timely manner, it is mandatory that all bidders obtain at least one set of Contract Documents from the Engineer to be eligible to bid on this project. Requests for additional information or any questions regarding this invitation for bids must be submitted in writing to Jones Edmunds at [bids@jonesedmunds.com](mailto:bids@jonesedmunds.com). Jones Edmunds will respond to written requests in writing and will issue a written addendum to the IFB. Addenda will be issued via email unless the Bidder requests otherwise.

Bids shall be completed on the enclosed Bid Form. Sealed bids will be received at the Bradford County Clerk of Court, at which time and place all bids will be publically opened and read aloud. Any Bids received after the specified time and date will not be considered.

The Board of County Commissioners of Bradford County, Florida, reserves the right to accept or reject any or all bids, award all or part of the bid, waive any technicality with regard to bids, exercise its local preference ordinance (2013-10/Sec. 2-156), and to interpret the bid specifications in the best interest of Bradford County.

For further information or clarification, contact [bids@jonesedmunds.com](mailto:bids@jonesedmunds.com).

END OF SECTION

**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**

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**BID FORM**

This bid is submitted by (type or print):

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

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

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

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

License No. \_\_\_\_\_ State: \_\_\_\_\_

Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

Email: \_\_\_\_\_

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

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Bidder will complete the Work in accordance with the Invitation for Bids. The Bidder agrees to furnish all labor, material, equipment, and other items, facilities, services, and incidentals for proper execution and completion of the Work for the following lump sum prices:

Any deviations or alternatives to the Bid Form may be provided on a separate page.

Bid Item	Description	Estimated Quantity	Units	Unit Price	Total Price
1	Mobilization and Demobilization	1	LS	\$	\$
2	Earthwork	1	LS	\$	\$
3	Fabric-Formed Concrete Mat	1	LS	\$	\$
4	24-inch-diameter HDPE Pipe (ADS N-12)	1	LS	\$	\$
5	4-inch-diameter HDPE Pipe	1	LS	\$	\$
6	Cleanouts	1	LS	\$	\$
7	Mitered End Sections	1	LS	\$	\$
8	Backfill Soil	1	LS	\$	\$
9	Top Soil	1	LS	\$	\$
10	Sod	1	LS	\$	\$
11	PVC Liner Rub Sheet	1	LS	\$	\$
12	Rip-Rap	1	LS	\$	\$
13	All other incidental items to complete the project	1	LS	\$	\$
Total Lump Sum Base Bid:					
Contingency					
A	30-mil PVC liner replacement	900	SF	\$	\$
Total Base Bid with Contingency A:					\$

## GENERAL CONDITIONS

This Invitation to Bid is in accordance with and incorporates by reference the Bradford County Article IV - Purchasing Procedures (adopted November 4, 2013).

### PART 1 DEFINITIONS

- A. *Contract* - The written instrument that is evidence of an agreement between Owner and Contractor covering the Work.
- B. *Bidder* - The business submitting a bid to Owner in response to this Invitation to Bid.
- C. *Contractor* - Any person having a contract with the Owner.
- D. *Owner* - Bradford County Board of County Commissioners.
- E. *Work* - Work described in the Invitation to Bid, General Conditions, and Specific conditions, drawings, and specifications.

### PART 2 BID SUBMITTAL

- A. All bids shall be submitted in the Bradford County format to be considered. Bids shall be submitted in a sealed envelope with the bid number, project title, and bid opening date clearly displayed on the outside of the envelope. Bid submittal before the specified opening time and date is solely the responsibility of the Bidder. Any Bids received after the specified time and date will not be considered. An original and one copy of the bid shall be submitted. Bids shall be submitted to:

Bradford County Board of County Commissioners  
Bradford County Clerk of Court  
945 North Temple Avenue  
Starke, Florida 32091

- B. Bidders must provide the following information upon submission of their bid package to be considered for the bid. Failure to provide information with bid may disqualify the Bidder:
  - 1. Signed Bid Form.
  - 2. Qualifications: provide evidence of previous landfill liner experience including but not limited to a list of at least three previous projects where landfill liner work was completed by the Contractor or a subcontractor.

3. References (3).
  4. Copy of State of Florida General Contractor's License or State of Florida Building Contractor's License.
- C. Bids must be signed by an authorized representative of the Bidder in the space provided on the Bid Form. By signing the bid, Bidder acknowledges that he/she has read all conditions, provisions, and specifications and submitted a bid that the Bidder agrees to comply with all conditions set forth in them.

## 2.01 PRICING

Unless otherwise stated, bid prices shall be Freight on Board (FOB), furnished, delivered, installed/constructed, and started up at Bradford County Central Landfill, on SR 100, 2 miles north of Keystone Heights, Florida. Bids shall remain valid for 90 days from the date of bid opening.

## 2.02 DEVIATIONS

Bidders shall submit with bid any compliance, non-compliance, or deviations from the specifications with an explanation of the nature of the deviation. Bradford County intends to award the bid to the bidder that meets the bid specifications; however, Bradford County reserves the right to waive minor deviations from the specifications, which in Bradford County's sole and absolute judgment do not materially affect the project.

## 2.03 BID TABULATION

Bid tabulations with recommended awards will be posted for review by interested parties at the location where bids were opened and will remain posted for a period of 72 hours. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

## 2.04 PREFERENCE FOR LOCAL VENDORS

- A. Preference will be given to the lowest bidder who:
1. Holds a current Florida business license, General Contractor's, or Building Contractor's license; and
  2. Submits a bid under the name of said Florida business license, General Contractor's or Building Contractor's license; and
  3. Has maintained a place of business within Bradford County, Florida, staffed by the bidder or an employee of the bidder for a period of not less than 1 year immediately preceding the date of the bid; and

4. Is incorporated under Florida law, or is a sole proprietorship whose proprietor is a resident of Bradford County, or is a partnership, with at least one partner a resident of Bradford County; or
  5. Is a joint venture, all of whose ventures qualify under the relevant portion of subsection 4 above; or
  6. Is a limited liability company whose manager is a resident of Bradford County.
- B. A bidder, if any, meeting the above criteria is referred to as the “preferred bidder”. If a preferred bidder submits a bid proposal which is not the lowest bid, the preferred bidder shall be entitled to match the lowest bid and be considered the lowest, best bidder by written notice to Bradford County immediately after the bid tabulation advising of the bidders’ willingness to meet the price of the apparent lowest bidder.

If more than one “preferred bidder” seeks to match the original low bidder, the bid and related contract shall be awarded to the “preferred bidder” whose original bid was the lowest bid of the “preferred bidders.”

## 2.05 EVALUATION OF BIDS AND AWARD OF CONTRACT

Bradford County reserves the right to reject any or all Bids that it believes would not be in the best interest of Bradford County. A bid report, in the case where bids contain a price greater than \$25,000.00 shall be presented to the board of county commissioners for final approval. Following final approval by the board of county commissioners, the contract shall be awarded with reasonable promptness. Contracts awarded by the board of county commissioners shall be awarded to the lowest responsible and responsive bidder whose bid meets the requirements and criteria set forth in the invitation to bid. A written Notice of Award shall be sent to the Bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids and is selected by Bradford County as in the best interests of Bradford County.

## 2.06 QUALIFICATIONS

The Bidder shall have the experience and capability to perform all aspects of the Bid requirements and work in the contract. The Contractor will be required to have landfill liner experience. The Bidder shall demonstrate experience in this type and scale of work and provide three references with the Bid. The Contractor shall have and maintain a State of Florida General Contractor’s or Building Contractor’s license.

## 2.07 INSURANCE

- A. The Contractor shall purchase and maintain at minimum all of the insurance described below during the term of this Agreement:
1. Workers' Compensation including occupational disease in accordance with the statutory requirements set forth by the state in which the Work is to be performed and employer's liability insurance covering all Contractors' employees engaged in the performance of this contract in the minimum sum of \$1,000,000.
  2. Commercial general liability insurance, including Contractor's protective liability and contractual liability insurance covering death or bodily injury and property damage with minimum limits of \$1,000,000 per occurrence and \$2,000,000 in the aggregate.
  3. Comprehensive automobile liability insurance covering Contractor for claims arising from owned, hired, and non-owned vehicles covering death or bodily injury and property damage with a combined single limit of a minimum sum of \$1,000,000.
  4. Certificates of insurance covering all of the insurance required to be maintained by Contractor shall be filed with Bradford County. Bradford County and Jones Edmunds shall be named as an additional insured under all insurance policies, using ISO CG 20-10 Endorsement. All such policies shall be from reputable national insurance companies, licensed in the state in which the Project is located, and reasonably acceptable to Bradford County. All insurance policies shall contain the provision that the insurance company will provide written notice to Bradford County 30 days prior to any change, termination, or cancellation of coverage. All insurance policies shall provide that all deductibles shall be for Contractor's account, and all such insurance policies shall be primary and not contributory with Bradford County's insurance.

## 2.08 TAXES

Bradford County is exempt from Federal Excise Taxes and all sales taxes.

## 2.09 PAYMENT AND PERFORMANCE BOND

Bradford County requires a Payment and Performance Bond in an amount equal to one hundred percent (100%) of the total price on the Bid Form. Payment and Performance Bond shall be written by sureties that are licensed to do business in the State of Florida, maintains an "A" rating with Best Insurance guide, and are otherwise acceptable to Bradford County. The

Payment and Performance Bond shall be submitted to the Bradford County Clerk of Court, 945 North Temple Avenue, Starke, Florida 32091 within 10 days of the Notice of Award by Bradford County.

## SPECIFIC CONDITIONS

1. SCHEDULE: The work shall be completed as follows:
  - Pre-Construction Meeting—TBD (7 days after Notice of Award).
  - Substantial Completion—60 days from Notice to Proceed.
  - Final Inspection—65 days from Notice to Proceed.
  - Final Completion—75 days from Notice to Proceed.
  
2. CONTINGENCY – PVC COVER LINER REPAIR: This project will require work to be performed at a Class I landfill that is closed with a PVC 30-mil non-crystalline thermoplastic liner and at least 2 feet of soil cover. The work will require excavation of the cover soil over the liner. Care shall be exercised when performing this work in an effort to avoid damaging the cover liner. If the Contractor damages the cover liner, the Contractor shall repair the cover liner with the same material or approved equal.
  
3. SPECIFICATIONS: See Appendix A.
  - Section 01200—Measurement and Payment.
  
4. LIQUIDATED DAMAGES: The Contractor shall be subject to \$500.00 per day liquidated damages for each day that expires after the times specified in Specific Condition 1.

**APPENDIX A**

**TECHNICAL SPECIFICATION SECTION 01200,  
MEASUREMENT AND PAYMENT**

SECTION 01200  
MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. This section covers methods of measurement and payment for items of work under this Contract.
- B. The total Contract Price shall cover all work required by the Contract Documents. All cost in connection with the proper and successful completion of the work, including furnishing all materials, equipment, and tools and performing all necessary labor and supervision to fully complete the work, shall be included in the unit price and lump-sum Bid prices. All work not specifically set forth as a pay item in the Bid Form or Bid Schedule shall be considered a subsidiary/ ancillary obligation of the Contractor and all costs in connection with these subsidiary/ancillary obligations shall be included in the Bid(s) to provide a complete and functional Project.

1.02 RELATED WORK (NOT USED)

1.03 SUBMITTALS (NOT USED)

1.04 WORK SEQUENCE (NOT USED)

1.05 REFERENCE STANDARDS (NOT USED)

1.06 QUALITY ASSURANCE (NOT USED)

1.07 WARRANTIES

- A. Warranties shall be in accordance with the 2015 Florida Statutes 718.203(2)(b).

1.08 DELIVERY, STORAGE, AND HANDLING (NOT USED)

1.09 QUALIFICATIONS (NOT USED)

1.10 MATERIAL PURCHASES

- A. The Contractor shall not pay sales tax on equipment, machinery, or materials purchased for the Bradford County Pond S-2 Stormwater System Repair Project in accordance with Florida Department of Revenue Tax Information

Publication #98(A)1-27 (<http://dor.myflorida.com/dor/tips/tip98a127.html>) exemption to Florida Statute 212.051. The Contractor shall be provided with a tax exemption authorization form (sample of the form is provided as Attachment 1 of this Section) from the Owner or Owner's Representative for the project that allows the Contractor to purchase material without taxes from vendors and subcontractors. The Contractor must sign a certificate stating that the equipment, machinery, or materials to be exempted are required to meet such law or permit condition. This exemption excludes solid waste collection vehicles, compactors, graders, or other earthmoving equipment.

- B. To exempt the qualifying purchase(s), the Owner or Owner's Representative will provide a certificate of exemption to the Contractor. The Contractor shall issue its own certificate to its subcontractors or to the vendor along with a copy of the certificate provided by the Owner or Owner's Representative. This process continues from subcontractors to sub-subcontractors until the actual purchase order is issued to the vendor or supplier for the qualifying equipment, machinery, or materials. When extending a certificate for this exemption, the Contractor shall not include another business entity's Certificate of Registration number (sales tax number) or Direct Pay Certificate number. A Certificate of Registration number or Direct Pay Certificate number may be used only by the business entity to which it was assigned. To support this exemption, the Owner, Owner's Representative, Contractor, and subcontractors shall retain all documents and records that could be used to support this exemption. These documents include, but are not limited to:

1. Photocopies of certificates.
2. Purchase orders.
3. Invoices.
4. Depreciation schedules.
5. Chart of accounts.
6. Permits.

#### 1.11 EXCAVATION, TRENCHING, AND CLEARING

- A. Except where otherwise specified, the unit price or lump-sum price bid for each item of work which involves excavation, trenching, clearing, grubbing, or disposal of cleared and grubbed materials shall include all costs for such work. No direct payment shall be made for clearing, grubbing, disposal of cleared or grubbed materials, excavation, trenching, disposal of surplus excavated material, handling water (and groundwater) and purchasing and hauling of required fill material. All excavation and trenching shall be unclassified as to materials which may be encountered; in addition, trenches shall be unclassified as to depth, unless otherwise stated.

#### 1.12 LUMP SUM ITEMS

- A. For lump-sum items, payments shall be made to the Contractor in accordance with an accepted Progress Schedule of Values on the basis of actual work completed and accepted by the Owner at the final completion of the Project. The Schedule of Values shall be used only as the basis for the Contractor's Applications for Payment.

#### 1.13 UNIT PRICE ITEMS

- A. For unit price items, payment shall be made based on the actual amount of work accepted by the Owner and for the actual amount of materials in place at the final completion of the Project, as confirmed by the final measurements.
- B. After the work is completed and before final payment is made, the Engineer will make final measurements, with all required assistance from the Contractor, to determine the quantities of various items of work accepted as the basis for the final unit price payment.

#### 1.14 PAYMENT FOR INCREASED OR DECREASED QUANTITIES

- A. When alterations in the quantities of unit price work not requiring a Change Order(s), as herein provided for, are ordered and performed, the Contractor shall accept payment in full at the Contract unit price multiplied by the actual quantities of work constructed and accepted by the Owner at the completion of the project.
- B. The actual percentage of each lump sum bid item completed by the Contractor and accepted by the Owner at the final completion of the Project will be paid to the Contractor.

#### 1.15 DELETED ITEMS

- A. Should any items contained in the Bid Schedule(s) be found unnecessary for the proper completion of the work contracted, the Engineer may eliminate such items from the Contract. This action shall in no way invalidate the Contract and no financial allowance or compensating payment for anticipated profit, overhead, etc., will be made for items so eliminated in making final payment to the Contractor.

#### 1.16 PARTIAL PAYMENTS

- A. Partial payments shall be made monthly as the work progresses.

## 1.17 PAYMENT FOR STORED MATERIAL DELIVERED TO THE PROJECT

- A. When requested by the Contractor and at the discretion of the Owner, payment may be made for all or part of the value of acceptable materials and equipment to be incorporated into bid items, which have not been used, and which have been delivered to the construction site or placed in storage places acceptable to the Owner. The Contractor shall provide receipts for all stored material items requested for reimbursement which clearly identify the stored material item, where it is to be constructed, the unit cost of the item, as well as the total cost of the delivered item(s), the quantity of the item, the brand name of the item, and the supplier. Note that there are additional documentation requirements and storage requirements within the Contract Documents that must also be met before the Contractor can be reimbursed for these stored materials.
- B. No payment shall be made for fuels, supplies, installation or connection hardware, lumber, false work, or other similar materials or on temporary structures or other work (items) of any kind which are not a permanent part of the Contract. Items having a value of less than \$2,500 shall not be compensated for as a stored material item.

## 1.18 FINAL PAYMENT

- A. If requested by the Engineer, the Contractor shall field verify all quantities in dispute by using visual observation, taped measurements, or other methods designated by the Engineer. The field verification shall be made in the presence of the Engineer and agreed to by both the Engineer and the Contractor. The Engineer will prepare a final adjusting Change Order which will adjust the final quantities of the project Bid Schedule to reflect the actual work accepted by the Owner and for which the Contractor will be compensated.

## 1.19 SCHEDULE OF VALUES

- A. A schedule of values for the lump-sum bid items and some of the unit price bid items as required by the Engineer shall be submitted and accepted before the first pay request is approved by the Engineer. The schedule of values shall be based on the prices bid in the Bid Schedule(s). Prices bid in the Bid Schedule(s) cannot be changed in the schedule of values; they can only be broken down into more detail so that the Engineer can more accurately review and approve the Contractor's pay application for the completed work.

## 1.20 MISCELLANEOUS CONSTRUCTION ITEMS

- A. The Contractor shall take all precautions necessary to protect existing utilities, roads, and miscellaneous items from damage during construction.

- B. The Contractor shall repair, relocate, or replace existing utilities, roadways, and miscellaneous items to pre-construction conditions.
- C. All repairs, relocations, and replacements necessary are considered incidental to the work and will be at the Contractor's cost, with no cost to the Owner.
- D. The unit-price bid items and lump-sum bid items for all pipe items shall constitute full compensation for furnishing, laying, jointing, and testing of pipe; dewatering; excavation and backfill; and cleanup. All pipe lines, including but not limited to sewer lines, concentrate disposal lines, water lines, force mains and gravity sewer lines, which are to be paid for per linear foot in the Bid Schedule, will be measured for payment only on a horizontal plane after installation, unless otherwise noted.

## PART 2 PAY ITEM DESCRIPTIONS

### 2.01 BID

The descriptions provided in the following Paragraphs are to be used by the Bidder in preparing the Bid Schedule(s). They generally indicate how the major workscope items and their respective costs are to be separated into the line items listed in the Bid Schedule(s). These descriptions are not fully representative nor all inclusive of the work required to complete the project in accordance with the Contract Documents. It is the Bidder's responsibility to include all required costs within the most appropriate line item(s).

Item 1. Mobilization and Demobilization—This item shall include and cover the costs for performing preparatory work and overhead operations in mobilizing for beginning work on the project including but not limited to movement of personnel and equipment to and from the site, sanitary facilities, project administration and management, insurance, bonds, Owner and Engineer indemnification, temporary utilities, permits related to construction, and all other similar activities and facilities necessary for executing this project. This item is lump sum and shall not exceed 5% of the Base Bid. The Contractor will be paid 40% of this item upon completion of mobilization and 10% upon demobilization; the remainder will be prorated equally over the construction duration.

Item 2. Earthwork—This item is to include all costs to furnish all labor, tools, and equipment to perform earthwork activities for the stormwater repair system within the limits of construction. Responsibilities include but are not limited to clearing and scraping existing vegetation, excavating cover soil, loading, hauling, stockpiling, placing, compacting, and ensuring that the soil is at the specified moisture content and meets soil testing requirement in conformance with the Contract Documents. The Bidder is advised of the possibility of elevation differences between the existing site condition at time of Bid and the topographic information provided with

the Contract Documents. This item is lump sum and shall be paid based on the percentage earthwork completed.

Item 3. Fabric-Formed Concrete Mat—This item is to include but not be limited to all costs for providing and installing a 6-inch-thick fabric-formed concrete mat to the lines shown on the Drawings. The fabric-formed concrete mat shall be connected to the mitered end section at the inlet and outlet of the pipes. The product shall be Hydrotex Uniform Section Lining or approved equal. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 4. 24-inch-diameter HDPE Pipe (ADS N-12)—This item is to include but not be limited to all costs for providing and installing all materials and incidentals including piping, fittings, flanged adapters, flanged joints, mechanical joint adapters, hardware, and appurtenances for the installation of the pipes as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 5. 4-inch-diameter HDPE Pipe—This item is to include but not be limited to all costs for providing and installing all materials and incidentals including piping, fittings, flanged adapters, flanged joints, mechanical joint adapters, hardware, and appurtenances for the installation of the pipes as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 6. Cleanouts—This item is to include but not be limited to all costs for providing and installing cleanouts as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 7. Mitered End Sections—This item is to include but not be limited to all costs for providing and installing mitered end sections as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 8. Backfill Soil—This item includes but is not limited to all costs for furnishing and installing backfill soil as defined and shown on the Drawings. Responsibilities include but are not limited to loading, transporting, unloading, stockpiling, placing in the specified lifts, spreading, compacting, and ensuring that the soil is at the specified moisture content and meets soil testing requirements in conformance with the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 9. Top Soil—This item includes but is not limited to all costs for furnishing and installing top soil as defined and shown on the Drawings. Responsibilities include but are not limited to loading, transporting, unloading, stockpiling, placing in the specified lifts, spreading, compacting, and ensuring that the soil is at the specified moisture content and meets soil testing requirements in conformance with the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 10. Sod—This item includes all labor, equipment, materials, and services required to furnish, install, and maintain sod as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 11. PVC Liner Rub Sheet—This item includes all labor, equipment, materials, and services required to furnish and install the 30-mil PVC liner rub sheet as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 12. Rip-Rap—This item includes all labor, equipment, materials, and services required to furnish and install rip-rap as shown on the Drawings. This item is lump sum and shall be paid based on the percentage of actual work completed.

Item 13. All Other Incidental Items to Complete the Project—This item includes all other incidental items to complete the project. This item is lump sum and shall be paid based on the percentage of actual work completed.

#### CONTINGENCY

Contingency A: 30-mil PVC liner replacement—This item includes all labor, equipment, materials, and services necessary to install a 30-mil PVC liner replacement if the existing cover liner is damaged. This is a unit price item and will be paid per the actual square footage of liner installed.

END OF SECTION

**ATTACHMENT 1**

**CONTRACTOR'S APPLICATION FOR PAYMENT**

## Contractor's Application for Payment No.

	Application Period:	Application Date:
To (Owner):	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

### Application For Payment Change Order Summary

Approved Change Orders				
Number	Additions	Deductions		
TOTALS				
NET CHANGE BY				
CHANGE ORDERS				

	1. ORIGINAL CONTRACT PRICE..... \$ _____
	2. Net change by Change Orders..... \$ _____
	3. Current Contract Price (Line 1 ± 2)..... \$ _____
	4. TOTAL COMPLETED AND STORED TO DATE (Column F on Progress Estimate)..... \$ _____
	5. RETAINAGE:
	a. X _____ Work Completed..... \$ _____
	b. X _____ Stored Material..... \$ _____
	c. Total Retainage (Line 5a + Line 5b)..... \$ _____
	6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5c)..... \$ _____
	7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)..... \$ _____
	8. AMOUNT DUE THIS APPLICATION..... \$ _____
	9. BALANCE TO FINISH, PLUS RETAINAGE (Column G on Progress Estimate + Line 5 above)..... \$ _____

**Contractor's Certification**

The undersigned Contractor certifies that to the best of its knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

By:	Date:
-----	-------

Payment of:	\$ _____ (Line 8 or other - attach explanation of the other amount)
is recommended by:	_____ (Date) (Engineer)
Payment of:	\$ _____ (Line 8 or other - attach explanation of the other amount)
is approved by:	_____ (Date) (Owner)
Approved by:	_____ (Date) Funding Agency (if applicable)



## **APPENDIX B**

## **DRAWINGS**

# BRADFORD COUNTY CENTRAL LANDFILL POND S-2 STORMWATER SYSTEM REPAIRS

## BRADFORD COUNTY, FLORIDA

DRAWING INDEX	
DWG	DESCRIPTION
GENERAL	
G1	COVER
G2	GENERAL NOTES
CIVIL	
C1	OVERALL SITE PLAN
C2	EXISTING SURVEY
C3	DEMOLITION PLAN
C4	SITE LAYOUT
C5	STORMWATER INLET REPAIR PLAN
C6	STORMWATER REPAIR SECTIONS

PREPARED FOR:

BRADFORD COUNTY BOARD  
OF COUNTY COMMISSIONERS

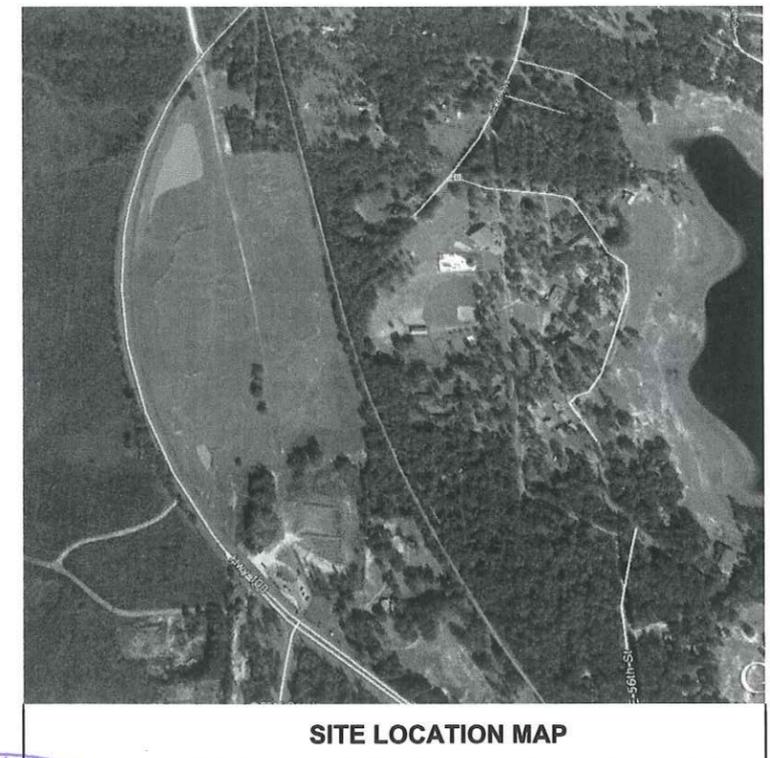
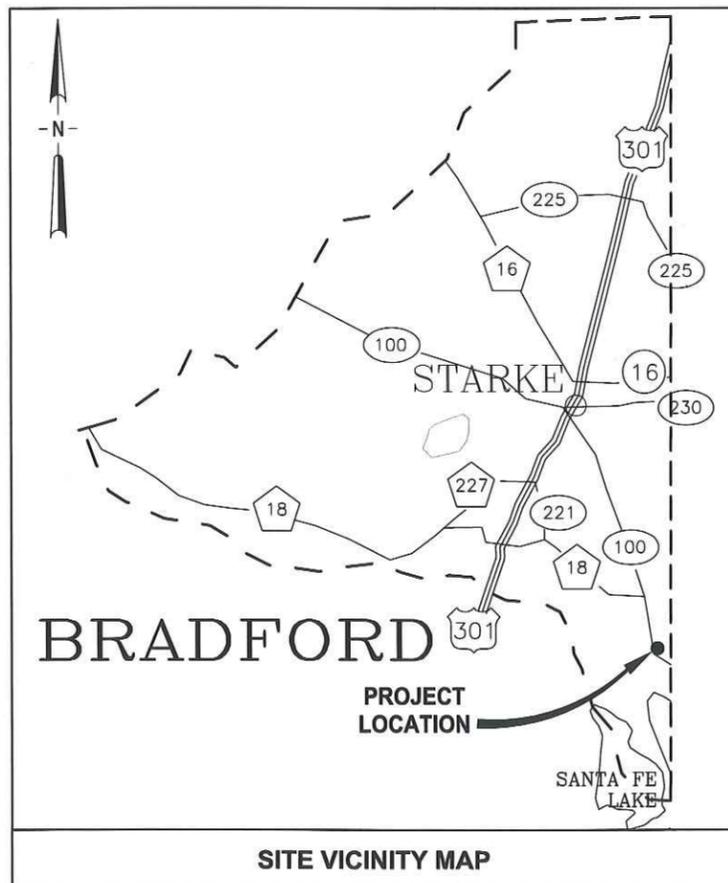
PREPARED BY:

**JONES  
EDMUNDS**

730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821  
CERTIFICATE OF AUTHORIZATION #1841



WALTER A. NICKEL  
P.E. # 68638



PROJECT NO: 02620-013-01

APRIL 2016

22x34

LAST SAVED: 4/22/2016 11:17 AMBY:JALLEN PLOTTED:4/22/2016 11:18 AMBY:JON ALLEN

BID DOCUMENTS

**GENERAL NOTES**

- SURVEY WAS PROVIDED BY PATRICK B WELCH AND ASSOCIATES, INC. PERFORMED SEP 25, 2015. FOR SURVEY INFORMATION SEE SURVEYOR'S NOTES. ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
- HORIZONTAL CONTROL IS BASED ON LOCAL COORDINATE SYSTEM THAT IS APPROXIMATELY BASED ON THE EAST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1990 ADJUSTMENT. COORDINATES AND CONTROL SHOWN ON THESE PLANS MAY NOT COINCIDE WITH THE FLORIDA STATE PLANE COORDINATES IF BROUGHT IN FROM CONTROL OFFSITE.
- ANY NATIONAL GEODETIC VERTICAL DATUM 1988 (NGVD88) MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY:  
  
FLORIDA STATE GEODETIC ADVISOR  
DAVID NEWCOMER, NOAA  
C/O FLDEP, BUREAU OF SURVEY  
AND MAPPING, MS 105  
3900 COMMONWEALTH BLVD.  
TALLAHASSEE, FL 32399-3000  
TELEPHONE: (850) 245-2606  
FAX: (850) 245-2645  
E-MAIL: david.newcomer@noaa.gov  
MOBILE: (202) 306-5736  
  
IN THE EVENT THAT MR NEWCOMER IS UNAVAILABLE, CONTACT:  
ASSISTANT GEODETIC ADVISOR  
RANDY WEGNER  
NOAA, NATIONAL GEODETIC SURVEY  
ASSISTANT NATIONAL OCEAN SERVICE ADVISOR  
BUREAU OF SURVEY AND MAPPING  
3900 COMMONWEALTH BLVD, MAIL STOP 105  
TALLAHASSEE, FL 32399 TELEPHONE: (850) 245-2606  
E-MAIL: Randy.Wegner@dep.state.fl.us
- THE CONTRACTOR SHALL PROVIDE A PROFESSIONAL SURVEYOR AND MAPPER LICENSED IN THE STATE OF FLORIDA TO ESTABLISH THE CONSTRUCTION SITE LAYOUT, PERFORM TOPOGRAPHIC SURVEYS, AND PERFORM ALL OTHER REQUIRED SURVEYING SERVICES.
- CONSTRUCTION MONUMENTS FOR VERTICAL AND HORIZONTAL CONTROL HAVE BEEN PROVIDED AT THE PROJECT SITE. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THESE MONUMENTS TO THEIR OWN SATISFACTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER VERTICAL AND HORIZONTAL ALIGNMENT OF CONSTRUCTED FACILITIES AND FINISHED GRADE.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING THEIR OWN WORK.
- THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
- FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED CONSTRUCTION TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED FACILITIES TO THE ORDERED DEVIATION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT SUNSHINE STATE ONE CALL AT 1-800-432-4770.
- EXISTING SITE FEATURE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED.

- , & --- ARE EXAMPLES OF DRAWING ELEMENTS WHICH HAVE BEEN SCREENED/SHADOWED TO INDICATE EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE AWARE THAT THE CONSTRUCTION SITE IS A CLOSED CLASS I LANDFILL.
- THE CONTRACTOR SHALL NOT INTERFERE WITH FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL PLANNED UTILITY OUTAGES AND ROAD CROSSINGS.
- THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT MONITOR WELLS THAT ARE NOT BEING ABANDONED FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE MONITOR WELLS DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE ENGINEER AND FDEP WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR TO ANY MONITOR WELLS.
- THE CONTRACTOR SHALL PREVENT DAMAGE TO THE EXISTING PVC GEOMEMBRANE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR AND PERFORM REPAIRS AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- THE CONTRACTOR SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF ADJACENT STRUCTURES, SLABS, LINERS, PIPING, AND OTHER UTILITIES OR FACILITIES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, GRASSING, SIGNS, AND OTHER IMPROVEMENTS WITH SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER TO EQUAL OR BETTER CONDITION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
- THE CONTRACTOR SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING FDEP AND WATER MANAGEMENT DISTRICT PERMITS FOR THE SITE. ALL PERMITS OBTAINED BY THE OWNER WILL BE AVAILABLE TO THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH EXISTING COUNTY DESIGN AND CONSTRUCTION STANDARDS UNLESS THOSE STANDARDS CONFLICT WITH THESE CONTRACT DOCUMENTS IN WHICH CASE THESE CONTRACT DOCUMENTS SHALL GOVERN. SUCH CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION DURING THE LIFE OF THE CONTRACT. THE CONTRACTORS' OPERATIONS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING THOSE PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES, AND NOISE POLLUTION. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH THESE REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE STORMWATER AND EROSION CONTROL PLANS TO PREVENT WATER FROM PONDING AND CONTROL EROSION AND RUNOFF. NO PONDING OF WATER SHALL BE ALLOWED. THE CONTRACTOR SHALL USE APPROVED CONSTRUCTION TECHNIQUES TO PREVENT EROSION AND SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING STORMWATER RUNOFF, SOLID WASTE, LANDFILL GAS, AND LEACHATE FROM ENTERING OR IMPACTING THE AREAS OF THE WORK. THE CONTRACTOR SHALL INSTALL AND MAINTAIN MANAGEMENT AND CONTROL DEVICES INCLUDING DIVERSION/COLLECTION BERMS, DITCHES, PUMPING STATIONS, WALLS, LINERS, ETC. TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.

- THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION AND SHALL USE APPROVED CONSTRUCTION TECHNIQUES TO MANAGE STORMWATER SUCH THAT THE IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE DUE TO STORMWATER.
- FDOT INDICES SHALL REFER TO THE "2015 FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS".
- THE CONTRACTOR SHALL PROTECT EXISTING PVC LANDFILL COVER LINER, STRUCTURES, AND UTILITIES FROM DAMAGE.
- ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- SCALE SHOWN ON DRAWINGS IS FOR REFERENCE ONLY. DRAWINGS SHALL NOT BE SCALED AND ITEMS SHALL NOT BE CONSTRUCTED FROM SCALED DRAWINGS. CALL THE ENGINEER IF IT CANNOT BE CONSTRUCTED WITH DIMENSIONS SHOWN. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DRAWINGS.

**EARTHWORK AND BACKFILL SOIL:**

- CLEAR VEGETATION WITHIN THE LIMITS OF WORK. USE CAUTION TO AVOID DAMAGING THE UNDERLYING PVC GEOMEMBRANE COVER LINER.
- EXCAVATE COVER SOIL WITHIN THE LIMITS OF WORK. USE CAUTION TO AVOID DAMAGING THE UNDERLYING PVC GEOMEMBRANE COVER LINER.
- LOAD, HAUL, AND UNLOAD EXCAVATED VEGETATION AND COVER SOIL TO THE STOCKPILE AREA IDENTIFIED BY THE OWNER. THE NON-ORGANIC, SUITABLE MATERIAL MAY BE REUSED AS SOIL FILL. THE OWNER RETAINS ALL RIGHTS AND OWNERSHIP TO ALL EXCAVATED SOIL MATERIALS FROM ON-SITE SOURCES REGARDLESS OF WHETHER IT IS USED FOR THIS WORK.
- LOAD AND HAUL SOIL FILL FROM THE EXCAVATION OR STOCKPILE OR BORROW SITE AND PLACE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
- EMBANKMENT OR BACKFILL SHALL BE PLACED IN MAXIMUM OF 12" LIFTS. COMPACT LIFTS TO A MAXIMUM OF 85% RELATIVE DENSITY AT MOISTURE CONTENT -3% TO +3% OF OPTIMUM AS DETERMINED BY ASTM D1557. FINAL LIFT SHALL NOT EXCEED 6 INCHES AND BE OF LOOSELY COMPACTED TOPSOIL, CAPABLE OF SUPPORTING VEGETATION.
- FINAL COVER SOIL SHALL NOT BE GREATER THAN 3H:1V.
- SUITABLE COVER SOIL SHALL BE NON-ORGANIC (<5%), NON-PLASTIC GRANULAR SOIL WITH LESS THAN 50% PASSING THE NO. 200 SIEVE (UNIFIED SOIL CLASSIFICATION SYSTEM SP-SM, SP-SC, SC).
- THE CONTRACTOR WILL ENGAGE AND PAY FOR THE SERVICES OF AN INDEPENDENT CONSTRUCTION QUALITY CONTROL LABORATORY FOR SOIL TESTING SERVICES. TESTS REQUIRED FOR BORROW SOURCE AND IN-PLACE FINAL ACCEPTANCE SHALL BE PERFORMED BY THE INDEPENDENT TESTING AGENCY. TEST RESULTS SHALL BE SENT TO THE ENGINEER FOR REVIEW.
- THE INDEPENDENT TESTING AGENCY SHALL PERFORM THE FOLLOWING SOIL CERTIFICATION TESTS ON THE SUITABLE COVER SOIL. PERFORM 1 TEST PER SOURCE OR CHANGE IN MATERIAL.
  - SOIL CLASSIFICATION, ASTM D2497 (EXCLUDING HYDROMETER)
  - COMPACTION CHARACTERISTICS USING MODIFIED EFFORT, ASTM D1557
  - ORGANIC CONTENT, ASTM D2974 METHOD C OR D
- THE INDEPENDENT TESTING AGENCY SHALL PERFORM 10 IN-PLACE SOIL TESTS IN ACCORDANCE WITH ASTM D6938 AT LOCATIONS IDENTIFIED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE ENGINEER AND TESTING AGENCY TO PERMIT TESTING. REWORKING AND COSTS FOR RETESTING OF AREAS THAT DO NOT MEET SPECIFIED IN-PLACE RELATIVE COMPACTION AND MOISTURE REQUIREMENTS SHALL BE PERFORMED BY THE CONTRACTOR.

**TOP SOIL:**

- THE CONTRACTOR SHALL PROVIDE AND INSTALL TOPSOIL FROM ON-SITE EXCAVATION OR FROM OFF-SITE BORROW AS APPROVED BY THE ENGINEER.

**SOD:**

- THE CONTRACTOR SHALL PROVIDE AND INSTALL STRONGLY ROOTED SOD, NOT LESS THAN 2 YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT).
- SOD SHALL BE PROVIDED IN RECTANGLES A MINIMUM OF 12 BY 24 INCHES OR IN ROLLS AT LEAST 12 INCHES IN WIDTH AND LENGTH CONSISTENT WITH THE EQUIPMENT USED TO HANDLE THE ROLLS AND PLACE THE SOD.
- ANY NETTING CONTAINED WITHIN THE SOD SHALL BE CERTIFIED BY THE MANUFACTURER TO BE BIO-DEGRADABLE WITHIN A PERIOD OF 3 MONTHS FROM INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE COMMERCIAL FERTILIZER OF NEUTRAL CHARACTER, WITH SOME ELEMENTS DERIVED FROM ORGANIC SOURCES, CONTAINING NOT LESS THAN 8% PHOSPHORIC ACID, 8% POTASSIUM, AND PERCENTAGE OF NITROGEN REQUIRED TO PROVIDE LESS THAN 1.0 POUNDS OF ACTUAL NITROGEN PER 1,000 SQUARE FEET OF AREA. THE CHEMICAL DESIGNATION SHALL BE 5-10-10.
- PROVIDE SOD COMPOSED PRINCIPALLY OF ARGENTINE BAHIA (PALLETIZED SOD) OR COMMON BERMUDA (ROLLED SOD).
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER TO OFFSET JOINTS IN ADJACENT COURSES. EMPLOY INSTALLATION METHODS TO AVOID DAMAGE TO SUBGRADE OR SOD. ON SLOPES INSTALL THE SOD WITH AN OVERLAP THAT ALLOWS WATER TO FLOW OVER THE ADJACENT STRIP AND NOT UNDER IT. TAMP OR ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING ADJACENT GRASS
- FOR ROLLED SOD, PLACE ROLLS PERPENDICULAR TO THE FACE OF THE SLOPE.
- WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.

**FABRIC-FORMED CONCRETE:**

- THE CONTRACTOR SHALL PROVIDE AND INSTALL A 6-INCH THICK FABRIC-FORMED CONCRETE AS MANUFACTURED BY HYDROTEX UNIFORM SECTION LINING OR APPROVED EQUAL.
- PLACE A GEOSYNTHETIC RUB SHEET BETWEEN THE EXISTING PVC COVER LINER AND THE FABRIC-FORMED CONCRETE.
- INSTALL THE CONCRETE EROSION MAT TO THE LINES SHOWN ON THE DRAWINGS. THE CONCRETE EROSION MAT SHALL BE FORMED IN A MITERED END SECTION AT THE INLET AND OUTLET OF THE PIPES.

**HDPE PIPE:**

- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND INCIDENTALS, INCLUDING PIPING, FITTINGS, FLANGED ADAPTERS, FLANGED JOINTS, MECHANICAL JOINT ADAPTERS, HARDWARE, AND APPURTENANCES FOR THE HDPE PIPING SYSTEMS SHOWN ON THE DRAWINGS
- THE CONTRACTOR SHALL SUPPLY AND INSTALL TWO 24-INCH DIAMETER ADS N-12 PIPE (DUAL WALL, SMOOTH INTERIOR WALL AND CORRUGATED EXTERIOR WALL). THE PIPE AND JOINTS SHALL BE WATERTIGHT.
- PIPE JOINTS SHALL BE JOINED WITH BELL & SPIGOT BY HEAT FUSION THAT PRODUCES HOMOGENOUS, SEALED, LEAK-TIGHT JOINTS.

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BID DOCUMENTS

DESIGNED	W NICKEL			
DRAWN	J ALLEN			
CHECKED	C SAWYER			
APPROVED				
LTR.	DATE	REVISIONS	BY	APPRD.

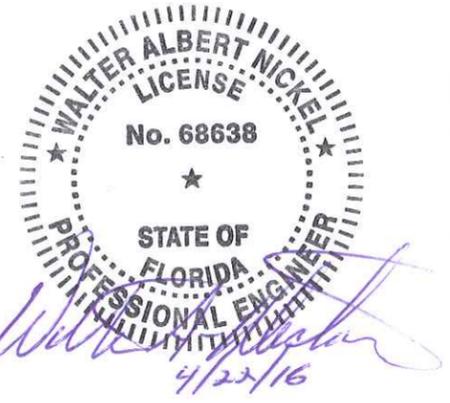
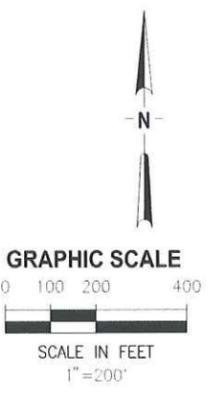
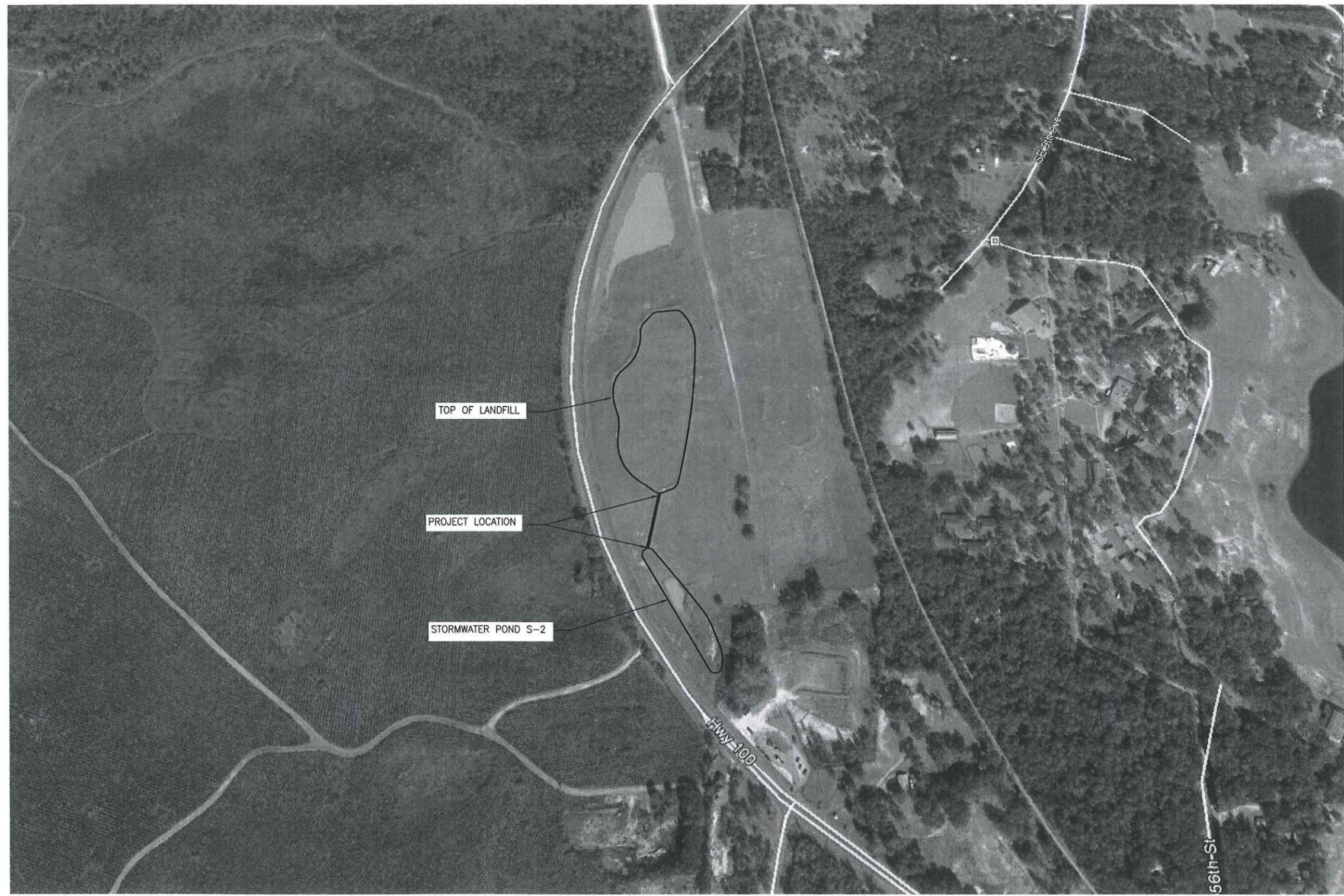


**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**



**GENERAL NOTES**

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APR 2016	02620-013-01
WALTER A. NICKEL	SCALE	DWG. NO.
P.E. # 68638	NONE	G2



BID DOCUMENTS

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LT.	DATE	REVISIONS	BY	APPR.

DESIGNED	W. NICKEL
DRAWN	J. ALLEN
CHECKED	C. SAWYER

**JONES EDMUNDS**  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

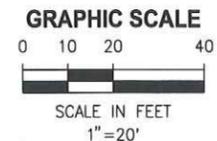
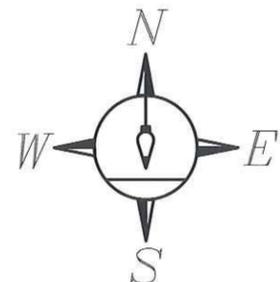
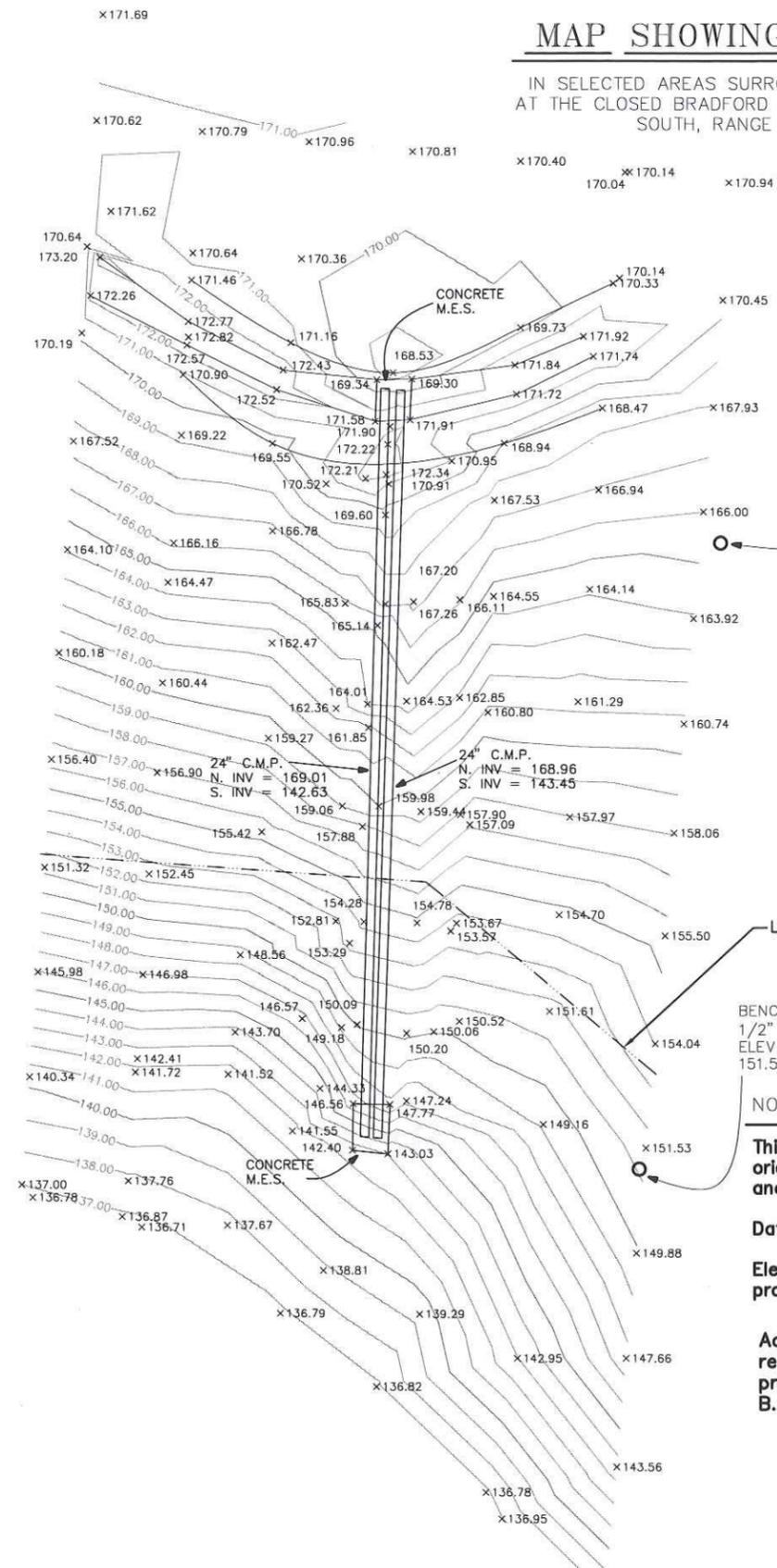
**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**

**OVERALL SITE PLAN**

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APR 2016	02620-013-01
WALTER A. NICKEL	SCALE	DWG. NO.
P.E. # 68638	AS NOTED	C1

# MAP SHOWING TOPOGRAPHIC SURVEY

IN SELECTED AREAS SURROUNDING AN EXISTING STORMWATER CULVERT AT THE CLOSED BRADFORD COUNTY LANDFILL IN SECTION 11, TOWNSHIP 8 SOUTH, RANGE 22 EAST, BRADFORD COUNTY, FL



BENCH MARK  
1/2" REBAR  
ELEV = 165.50

BENCH MARK  
1/2" REBAR  
ELEV = 151.50

**NOTES**

This map not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.

Date of last field work was September 24, 2015.

Elevations based on NAVD 1988 datum as projected using RTK network GPS.

Additions or deletions to survey maps or reports by other than the signing party is prohibited without the written consent of Patrick B. Welch & Associates, Inc.

PLOT DATE: 4/22/2016 11:06 AM JON ALLEN  
 DWG LOCATION: N:\02620 BRADFORD COUNTY BOCC\013 POND S-2 STORMWATER SYSTEM REPAIR\CONTRACT DRAWINGS\CIVIL\02620013-C02.DWG  
 LTR. DATE BY APPR. CHECKED  
 TOPOGRAPHIC SURVEY

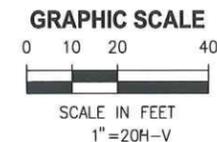
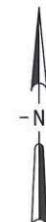
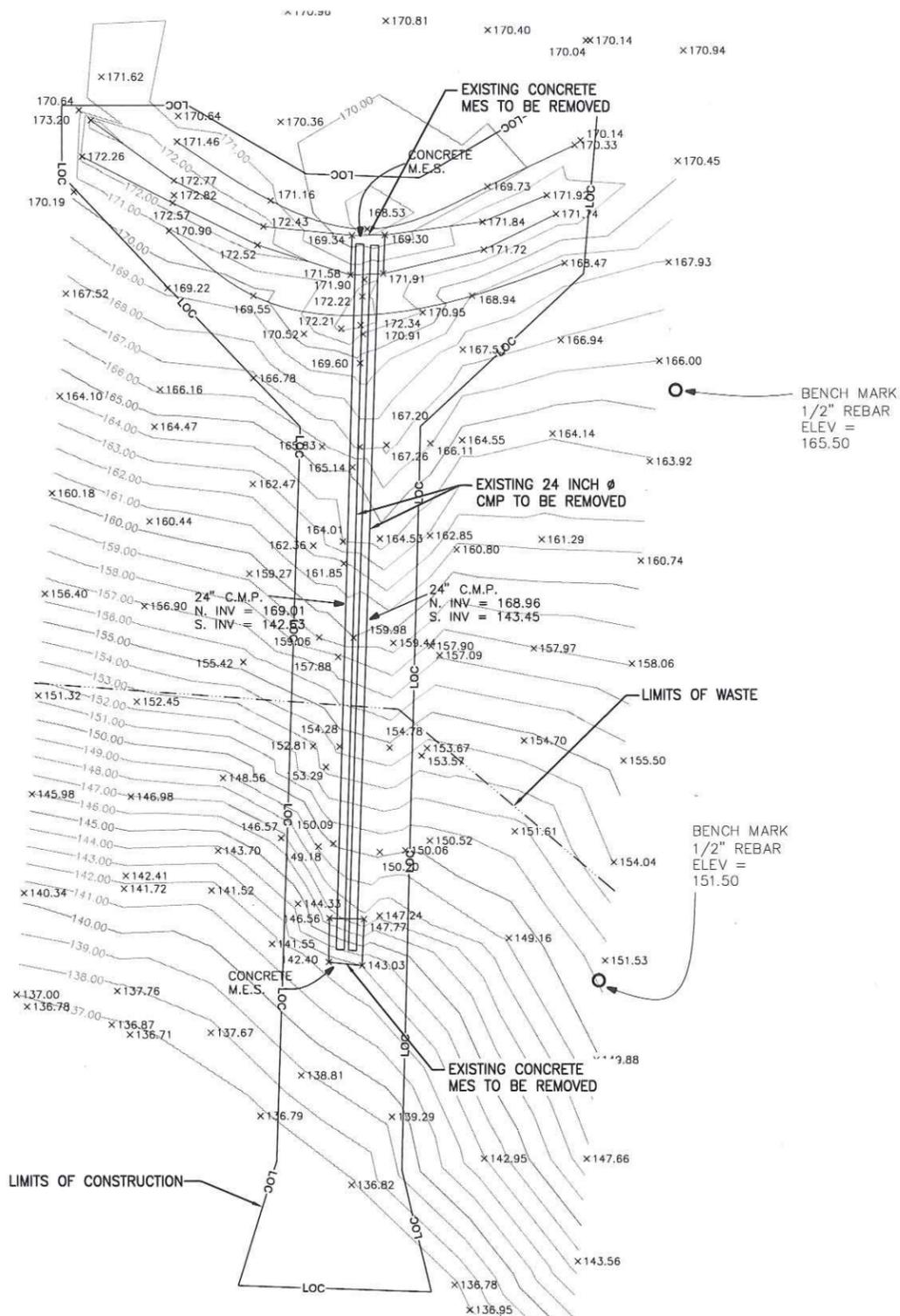
BID DOCUMENTS

DESIGNED	_____
DRAWN	_____
CHECKED	_____
LTR. DATE BY APPR. CHECKED	_____

**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**

**TOPOGRAPHIC SURVEY**

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APR 2016	02620-013-01
P.E. #	SCALE	DWG. NO.
	AS NOTED	C2



**NOTES**

1. EXCAVATE COVER SOIL WITHIN THE LIMITS OF CONSTRUCTION.
2. REMOVE EXISTING CMP PIPES, MITERED END SECTIONS AND 4" HDPE PERFORATED UNDERDRAIN WITHIN THE LIMITS OF CONSTRUCTION.
3. STOCKPILE EXCAVATED SOIL AT THE LOCATION DESIGNATED BY THE OWNER.



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LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED W NICKEL  
 DRAWN J ALLEN  
 CHECKED C SAWYER

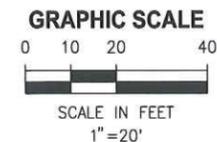
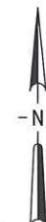
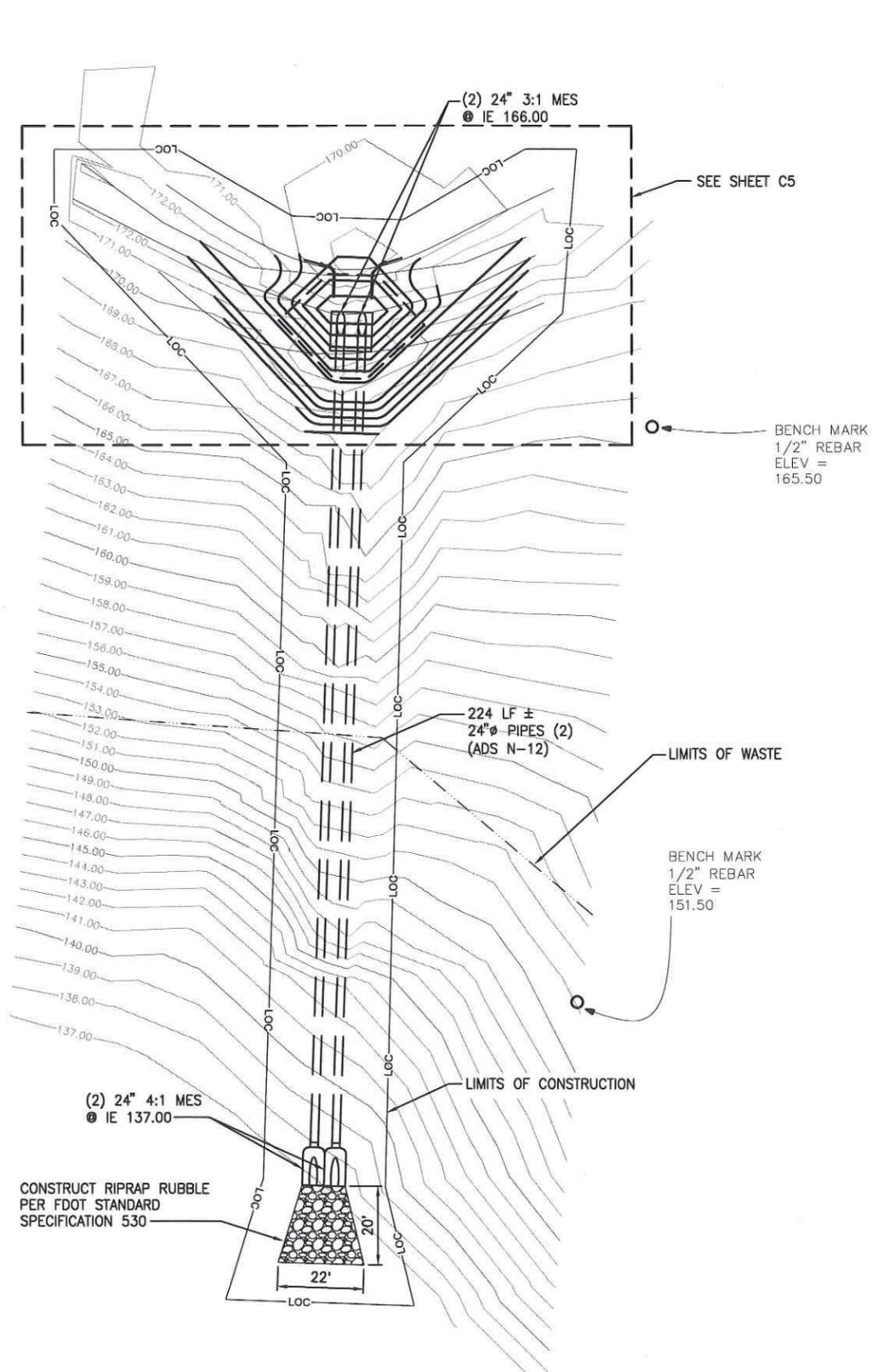


**BRADFORD COUNTY CENTRAL LANDFILL  
 POND S-2 STORMWATER SYSTEM REPAIRS**

**DEMOLITION PLAN**

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY  WALTER A. NICKEL P.E. # 68638	DATE APR 2016	PROJECT NO. 02620-013-01
	SCALE AS NOTED	DWG. NO. C3

BID DOCUMENTS



**NOTE**  
 1. INSTALL MITERED END SECTIONS AT THE INLET AND OUTLET PIPES IN ACCORDANCE WITH FOOT INDEX 273 (STANDARD WEIGHT PIPE).



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LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED W NICKEL  
 DRAWN J ALLEN  
 CHECKED C SAWYER



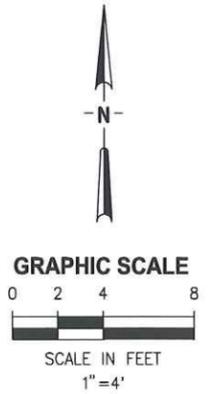
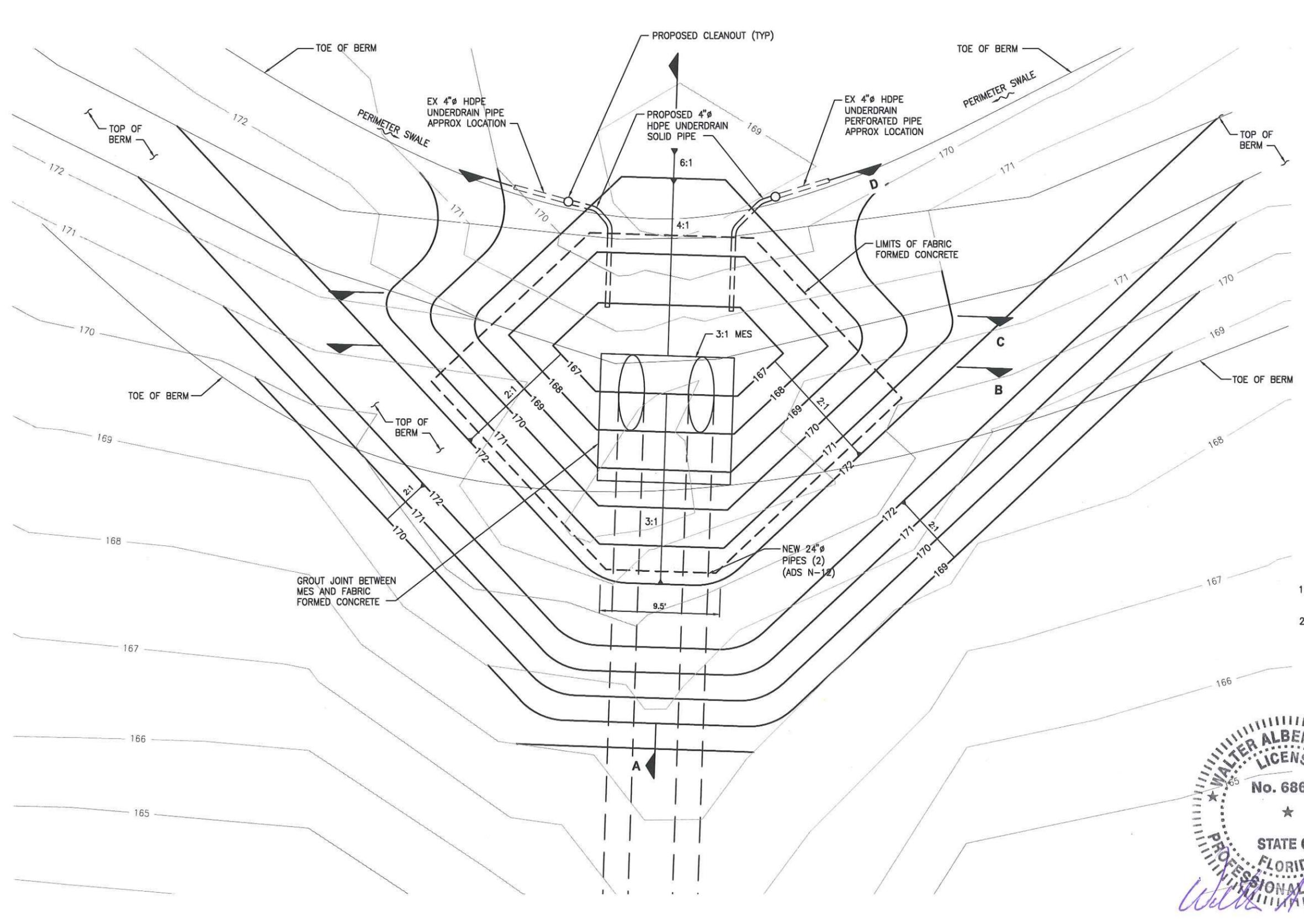
**BRADFORD COUNTY CENTRAL LANDFILL  
 POND S-2 STORMWATER SYSTEM REPAIRS**

**SITE LAYOUT**

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY	DATE APR 2016	PROJECT NO. 02620-013-01
WALTER A. NICKEL P.E. # 68638	SCALE AS NOTED	DWG. NO. C4

BID DOCUMENTS

LAST SAVED: 3/23/2016 3:35 PM JALLEN DWG LOCATION: N:\02620 BRADFORD COUNTY BOCC\013 POND S-2 STORMWATER SYSTEM REPAIR\CONTRACT DRAWINGS\CIVIL\02620013-C05.DWG



- NOTES**
1. EXISTING 4" HDPE UNDERDRAIN LOCATION IS APPROXIMATE. TO BE FIELD LOCATED.
  2. THE CONTRACTOR SHALL PREVENT DAMAGE TO THE EXISTING PVC COVER LINER. NOTIFY THE ENGINEER IMMEDIATELY SHOULD DAMAGE OCCUR. PERFORM REPAIRS TO DAMAGED LINER, REPAIR TO EXISTING CONDITIONS.



LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	W NICKEL
DRAWN	J ALLEN
CHECKED	C SAWYER



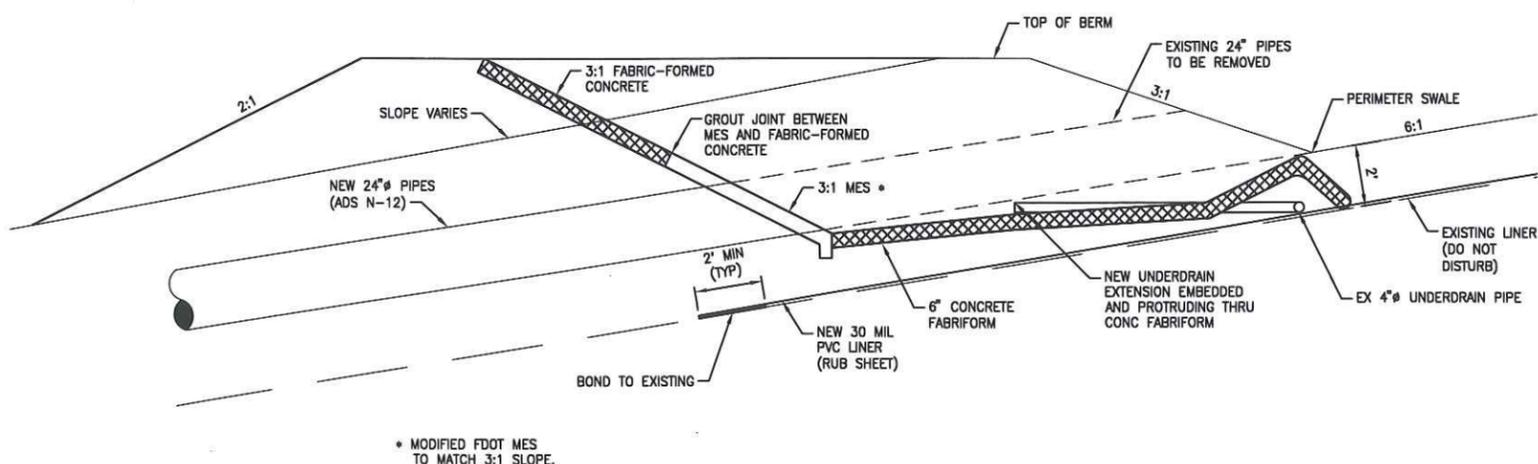
**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**

**STORMWATER INLET REPAIR PLAN**

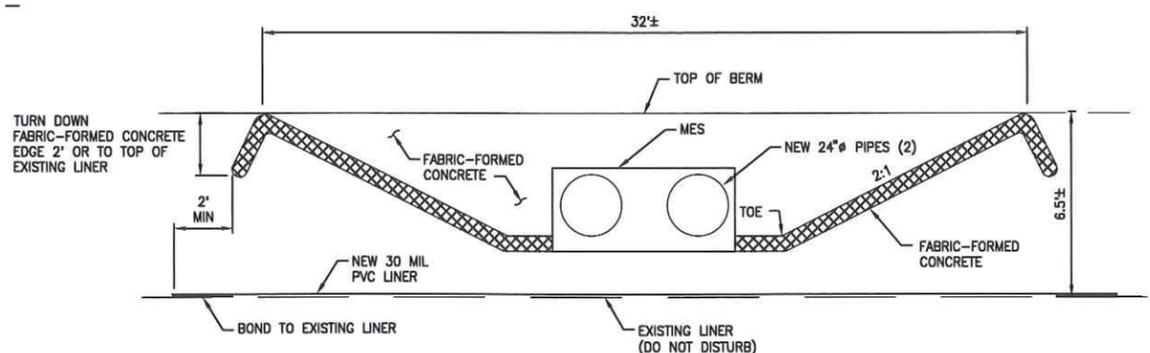
CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY	DATE APR 2016	PROJECT NO. 02620-013-01
WALTER A. NICKEL P.E. # 68638	SCALE NONE	DWG. NO. C5

BID DOCUMENTS

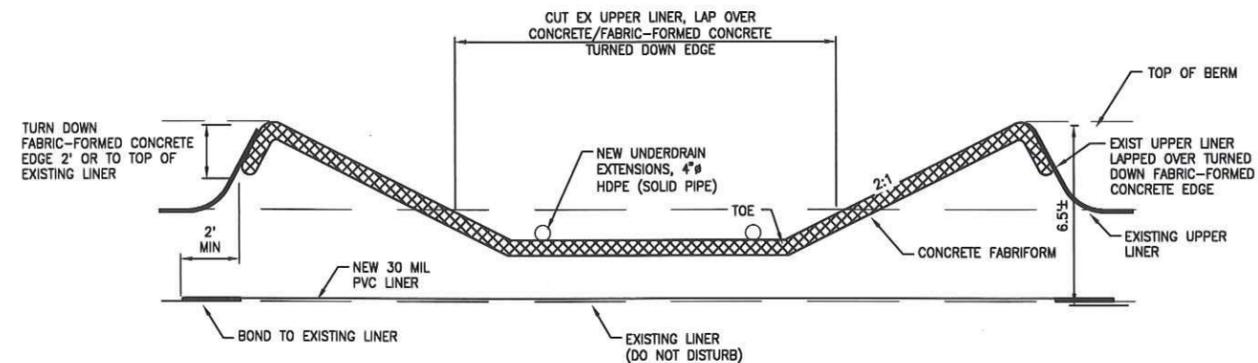
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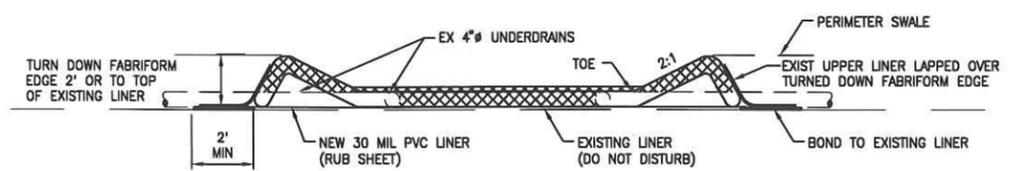
**SECTION A**  
AS NOTED C5



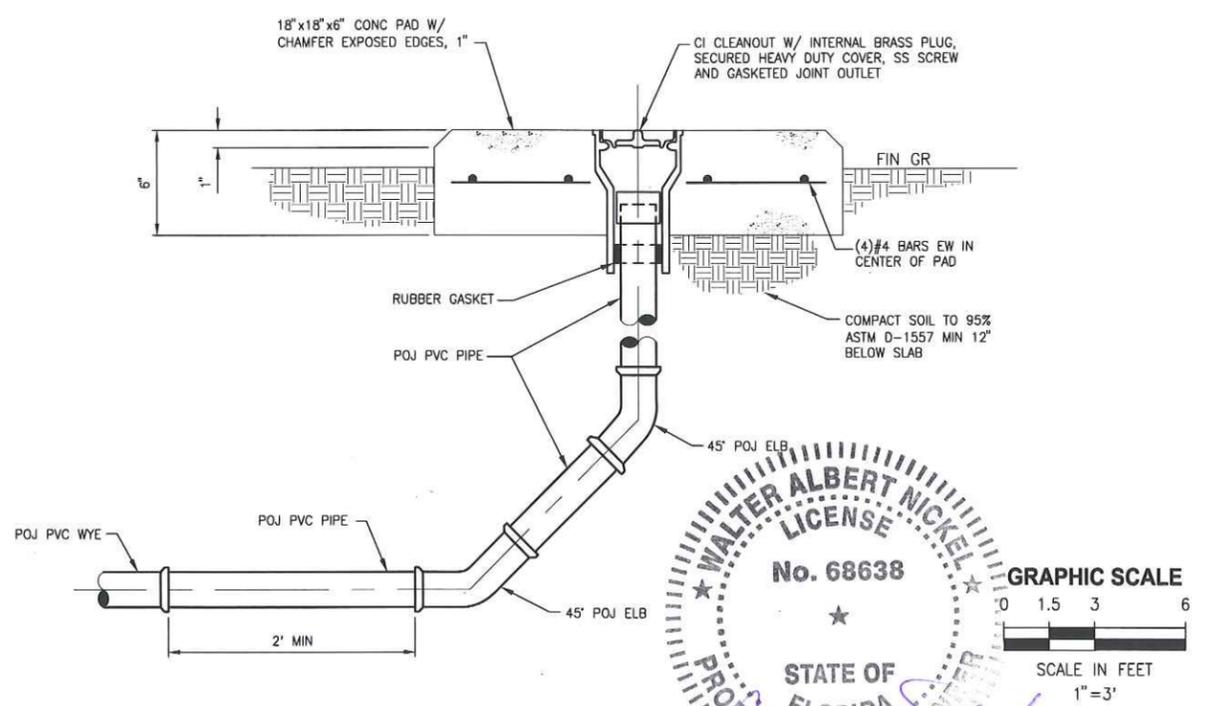
**SECTION B**  
AS NOTED C5



**SECTION C**  
AS NOTED C5



**SECTION D**  
AS NOTED C5



**CLEANOUT DETAIL**  
NTS

**WALTER ALBERT NICKEL**  
LICENSE  
No. 68638  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

GRAPHIC SCALE  
0 1.5 3 6  
SCALE IN FEET  
1" = 3'

*Walter A. Nickel*  
4/22/16

LTR.	DATE	REVISIONS	BY	APPRO.

DESIGNED: W NICKEL  
DRAWN: J ALLEN  
CHECKED: C SAWYER

**JONES EDMUNDS**  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

**BRADFORD COUNTY CENTRAL LANDFILL  
POND S-2 STORMWATER SYSTEM REPAIRS**

**STORMWATER REPAIR SECTIONS**

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY WALTER A. NICKEL P.E. # 68638	DATE APR 2016	PROJECT NO. 02620-013-01
SCALE AS NOTED	DWG. NO. C6	

BID DOCUMENTS