



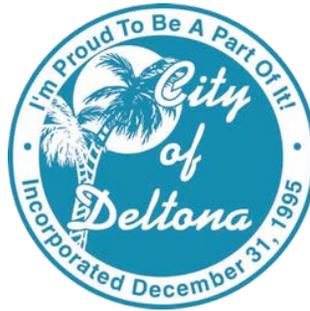
TETRA TECH

PROJECT MANUAL

CITY OF DELTONA WATER MAIN IMPROVEMENTS NORMANDY BOULEVARD PART B

Bid Set

Prepared For:



2345 Providence Boulevard
Deltona, Florida 32725

Prepared By:

Tetra Tech
201 East Pine Street, Suite 1000
Orlando, Florida 32801

Tt #200-08534-13001

**CITY OF DELTONA
WATER MAIN IMPROVEMENTS
NORMANDY BOULEVARD PART B**

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>
<u>DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS</u>	
00300	Bid Form
<u>DIVISION 1 - GENERAL REQUIREMENTS</u>	
01010	Summary of Project
01025	Measurement and Payment
01100	Special Project Procedures
01340	Shop Drawings, Working Drawings, and Samples
01390	Color Audio-Video Pre-Construction Record
01410	Testing and Testing Laboratory Services
01720	Project Record Documents
<u>DIVISION 2 - SITEWORK</u>	
02050	Demolition
02080	Abandonment, Removal, and Disposal of Existing Pipe Removed from Service
02100	Site Preparation
02140	Dewatering
02221	Trenching, Backfilling, and Compacting
02574	Pavement Removal and Replacement
02934	Solid Sodding
<u>DIVISION 3 - CONCRETE</u>	
03600	Grouting
<u>DIVISION 9 - COATINGS</u>	
09900	Painting
09905	Piping, Valve, and Equipment Identification System
<u>DIVISION 15 - MECHANICAL</u>	
15044	Pressure Testing of Piping
15050	Utility Piping, Fittings, Valves, and Accessories

NAME OF BIDDER: _____

SECTION 00300

BID FORM

DATE SUBMITTED: _____

PROJECT IDENTIFICATION: **CITY OF DELTONA
WATER MAIN IMPROVEMENTS
NORMANDY BOULEVARD PART B**

NAME OF BIDDER: _____

BUSINESS ADDRESS: _____

_____ Telephone Number.: _____

CONTRACTOR'S FLORIDA LICENSE NO.: _____

THIS BID IS SUBMITTED TO: **CITY OF DELTONA
2345 PROVIDENCE BOULEVARD
DELTONA, FLORIDA 32725**

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this Bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:
 - (a) Bidder has examined and carefully studied the Bidding Documents and the following Addenda receipt of which is hereby acknowledged:

No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____

NAME OF BIDDER: _____

- (b) Bidder has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work;
- (c) Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.
- (d) Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in the General Conditions. Bidder accepts the determinations set forth in the Supplementary Conditions of the extent of the "technical data" contained in such reports and drawings upon which Bidder is entitled to rely as provided in the General Conditions. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost progress, performance of furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.
- (e) Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.
- (f) Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.
- (g) Bidder has given Engineer written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

NAME OF BIDDER: _____

- (h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder acknowledges and agrees that the scope of work defined by the attached specifications and drawings developed by Tetra Tech, hereafter called “Utility” work, is part of an overall road widening project which includes road and drainage work developed by Bowyer Singleton and Associates, hereafter called “Roadway” work, and is subject to the Roadway work agreement(s), contract document(s), and requirements.
5. Bidder submits the following Lump sum/unit prices to perform all the work as required by the Utility Drawings and Specifications for the **City of Deltona, Water Main Improvements, Normandy Boulevard Part B.**

All Bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead, and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Contract Documents.

Unit Prices have been computed in accordance with Article 11 of the General Conditions. Bidder acknowledges that quantities are not guaranteed and final payment will be based on actual quantities installed and accepted by the Engineer and Owner.

Item No.	Description	Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS		
2	General Requirements, Bonds and Insurance (3%)	1	LS		
3	Locate Utilities in Advance of Construction	1	LS		
4	Survey Layout and As-Builts	1	LS		
5	Furnish and install 4-inch DIP water main (restrained joint)	80	LF		
6	Furnish and install 6-inch PVC water main (restrained joint)	710	LF		
7	Furnish and install 6-inch PVC water main (push)	115	LF		
8	Furnish and install 6-inch DIP water main (restrained joint)	200	LF		
9	Furnish and install 8-inch PVC water main (restrained joint)	30	LF		
10	Furnish and install 8-inch PVC water main (push)	0	LF		
11	Furnish and install 12-inch DIP water main (restrained joint)	120	LF		
12	Furnish and install 16-inch PVC water main (restrained joint)	2340	LF		
13	Furnish and install 16-inch PVC water main (push)	1030			
14	Furnish and install 16-inch DIP water main (restrained joint)	185	LF		
15	Abandon and grout fill existing water main	4920	LF		
16	Removal and disposal existing water main	2100	LF		
17	4-inch 45 Degree Bend	4	EA		
18	6-inch 45 Degree Bend	16	EA		
19	6-inch 22.5 Degree Bend	2	EA		

NAME OF BIDDER: _____

Item No.	Description	Quantity	Unit	Unit Price	Total Price
20	6-inch 11.25 Degree Bend	3	EA		
21	8-inch 45 Degree Bend	2	EA		
22	12-inch 45 Degree Bend	4	EA		
23	16-inch 11.25 Degree Bend	7	EA		
24	16-inch 22.5 Degree Bend	1	EA		
25	16-inch 45 Degree Bend	34	EA		
26	6-inch Tee	1	EA		
27	16 x 4-inch Tee	1	EA		
28	16 x 6-inch Tee	4	EA		
29	16 x 8-inch Tee	1	EA		
30	16 x 12-inch Cross	1	EA		
31	6 x 4-inch Reducer	2	EA		
32	16 x 12-inch Reducer	1	EA		
33	4-inch Gate Valve	1	EA		
34	6-inch Gate Valve	5	EA		
35	8-inch Gate Valve	1	EA		
36	12-inch Gate Valve	3	EA		
37	16-inch Gate Valve	4	EA		
38	Air Release Valve	6	EA		
39	Fire Hydrant	11	EA		
40	1-inch Single Service - Short	13	EA		
41	1-inch Single Service - Long	5	EA		
42	1-inch Double Service - Short	5	EA		
43	1-inch Double Service - Long	14	EA		
44	4-inch Direct Connect & Fitting Assembly – Potable	4	EA		
45	6-inch Direct Connect & Fitting Assembly – Potable	2	EA		
46	8-inch Direct Connect & Fitting Assembly – Potable	1	EA		
47	12-inch Direct Connect & Fitting Assembly – Potable	3	EA		
48	Testing and Laboratory Services (Allowance)	1	LS		
TOTAL BASE BID					

(In Words)				\$	_____
					(In Figures)

5. See Roadway work documents for any of the following documents which are required and made a condition of this Bid:

1. Bid Forms (Bidder Submittal Package and entire Section 00300).
2. Questionnaire (Section 00301).
3. Subcontractor Listing (Bidder Submittal Package)
4. Bid Bond or Security (surety bond or cashier's check). (Section 00410).
5. Power of Attorney (for surety bond only).
6. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420).

NAME OF BIDDER: _____

7. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Bidder Submittal Package)
 8. Non-collusion Affidavit (Bidder Submittal Package).
 9. Trench Safety Affidavit (Section 00490).
-
6. The terms used in this Bid, which are defined in Article 1 of the General Conditions shall have the meanings assigned to them in the General Conditions as amended by the Supplementary Conditions.
 7. Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified in the Agreement.

The Utility Work shall be performed by a General Contractor or Underground Contractor Licensed in the State of Florida. Contract shall not be awarded unless proof of valid license(s) is provided.

NAME OF BIDDER: _____

If Bidder is: (ALL SIGNATORIES MUST HAVE THEIR NAME PRINTED OR TYPED BELOW THEIR SIGNATURE)

SOLE PROPRIETORSHIP

_____ (SEAL)
(Individual's Signature)

_____ (SEAL)
(Individual's Name)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

A PARTNERSHIP

_____ (SEAL)
(Partnership Name)

_____ (General Partner's Signature)

_____ (General Partner's Name)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

NAME OF BIDDER: _____

A CORPORATION

(Corporation Name) (SEAL)

(State of Incorporation)

BY _____
(Name of Person Authorized to Sign)

(Title)

(Authorized Signature)

(CORPORATE SEAL)

ATTEST _____
(Secretary)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Corporation President _____

Florida License No.: _____

NAME OF BIDDER: _____

A JOINT VENTURE

By _____ (SEAL)
(Name)

By _____
(Address)

By _____ (SEAL)
(Name)

By _____
(Address)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above).

8. List the following in connection with the Surety which is providing the Bid Bond. Surety's Name: Surety's Address:

Surety's Name: _____

Surety's Address: _____

Name and address of Surety's resident agent for service of process in Florida:

NAME OF BIDDER: _____

SCHEDULE OF BASE BID MANUFACTURERS/SUPPLIERS

The Contract Documents are based upon the equipment or products available from the manufacturers/suppliers denoted as "A", "B", etc. However, the Bidder must indicate in his Bid which Base Bid manufacturer/supplier he intends to use for each item of equipment listed by circling one (1) of the listed manufacturers/suppliers. Should the Bidder fail to circle a named supplier, he hereby agrees to provide the item listed as "A". After receipt of bids, the Bidder may not substitute for any manufacturer or supplier circled. Listed manufacturers/suppliers identified as deductive alternates will be considered as a deductive alternate as presented in the Deductive Alternate Section of the Bid Form.

If the Bidder desires to propose one (1) or more substitution or "or equal" manufacturers/suppliers, he may write in the name of such substitution or "or equal" in the spaces provided on the pages following the lists, but he must, nevertheless, also circle one of the listed manufacturers/suppliers. All substitutions or "or equal" items must be identified at the time of Bid (see paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions). Substitutions or "or equal" items will **not** be considered when determining the Apparent Lowest Bidder. Substitutions or "or equal" items will **not** be evaluated or considered until after the "Effective Date" of the Agreement. The Bidder shall base his Bid on providing one of the listed manufacturers/suppliers and shall assume for bidding purposes that all substitutions or "or equal" items will not be accepted.

If the proposed substitution or "or equal" manufacturer/supplier is determined "not equivalent" by the Engineer, the Bidder must use the circled manufacturer/supplier. If the Bidder fails to indicate which listed manufacturer/supplier he intends to use or if a substitution or an "or equal" is rejected, he must use the manufacturer/supplier listed as "A". Also, if the Bidder circles more than one listed manufacturer/supplier, he must use the first manufacturer/supplier circled (unless a substitution or "or equal" is approved).

Each proposed substitution or "or equal" will be evaluated in accordance with Paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions following the Effective Date of the Agreement.

In addition to the reimbursement required under Paragraph 6.7 of the General Conditions, the Contractor shall also reimburse the Owner for any engineering costs directly attributable to the change in manufacturers/suppliers, caused by the acceptance of proposed substitution or "or equal" items, such as; additional field trips for the Engineer, additional redesign costs, and additional review costs, etc. Other costs directly attributable to the change in manufacturers/suppliers caused by the acceptance of proposed substitution or "or equal" items such as increased electrical requirements, larger building, modifications to structures, additional pumps, piping or tankage, etc., shall be borne by others and not by the Owner. Bidder further agree that the use of substitute equipment offered will not affect the completion date.

The Owner may request, and the Bidder shall supply, complete information on proposed substitution or "or equal" items prior to the Notice of Award.

NAME OF BIDDER: _____

Category I - SCHEDULE OF BASE BID MANUFACTURERS / SUPPLIERS

Item No.	Equipment Item or Material	Specification Section No.	Manufacturer/Supplier
1.	(Pressure Piping)		A. North American B. Diamond C. Freedom D. J-M Manufacturing E. Certainteed F. National Pipe G. Ipex
	(Gate Valves)		A. American Flow Control B. Mueller C. Clow D. US Pipe E. Waterous F. M&H G. Kennedy
	(Air Release Valves)		A. A.R.I. Flow Control Accessories
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____

SUBSTITUTIONS AND "OR EQUAL"

The undersigned as Bidder agrees that substitutions or "or equal" items will not be considered until after the "Effective Date of the Agreement" and will be evaluated in accordance with Paragraphs 6.7, 6.7.1 and 6.7.2, of the General Conditions as amended by the Supplementary Conditions. If Bidder intends to propose substitutions or "or equal" items after the "Effective Date of the Agreement", it is agreed that these items will be listed on the Substitution List included with the Bid (form provided herein). Only the proposed substitutions or "or equal" items listed on the Substitution List will be evaluated by the Engineer in accordance with the General Conditions.

NAME OF BIDDER: _____

SUBSTITUTION LIST OF
MANUFACTURERS / SUPPLIERS

Bidder proposes the following substitutions and "or equal" items of alternate manufacturers/suppliers for the equipment of material categories so identified:

	<u>Equipment Item Material</u>	<u>Drawing No.</u>	<u>Spec. Section</u>	<u>Substitute/"or equal" Manufacturer/Supplier (List One Only)</u>	<u>Proposed Price Deduct</u>
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____

END OF SECTION

SECTION 01010

SUMMARY OF PROJECT

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. All work for the Normandy Boulevard Water Main Improvements Project shall be constructed in accordance with the Drawings and Specifications prepared by Tetra Tech and the proposed improvements will be awarded and constructed under one contract with the Normandy Boulevard Road Improvements (roadway contract) designed by BSA. Bids shall be submitted for furnishing, delivering, and installing all materials, equipment and services, including labor, for the Work described.

Payment for work below is for Utility work only. Utility work pay items represent work which is not otherwise covered by the Roadway work pay items for similar pay items and is not a duplication of any Roadway work but may represent incremental costs for similar pay items for Utility work that would not otherwise be covered under Roadway work scope of work.

All work associated with Normandy Boulevard Road Improvements are described under separate cover and herein referred to as the roadway work or roadway project.

The intent of the Normandy Boulevard Water Main Improvements Project is for the City of Deltona to expand the existing water service along Normandy Boulevard with installation of a 16-inch water main. The project generally includes furnishing all labor, materials, equipment, restoration and incidentals for construction of approximately 5,000 linear feet of 4- through 16-inch diameter water mains and various interconnections. Construction of the water mains and interconnections will generally utilize open trench methods.

All demolition and restoration of driveways, sidewalk, pavement, landscaping, and other work associated with the installation of the water main and services outside of the Normandy Boulevard Road Improvements (roadway work) are included in the utility work as described herein.

1.02 CONTRACTOR'S USE OF PREMISES

- A. The Contractor shall assume full responsibility for the protection and safekeeping of products and materials at the job site. If additional storage or work areas are required, they shall be obtained by the Contractor at no additional cost to the

Owner. Contractor's proposed staging area to be approved by the Owner prior to use.

1.03 PROJECT SEQUENCE

- A. The Contractor shall establish his work sequence based on the use of crews to facilitate completion of construction and testing within the specified Contract Time.

END OF SECTION

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1- GENERAL

1.01 DESCRIPTION

- A. This section describes the method used to determine quantities of Work performed or materials supplied for which a price is given in the Bid. It establishes the basis upon which payment will be made for Payment Items.
- B. Subject to the provisions in General Conditions, all Work and payment for the Work is represented by Payment Items and associated unit prices.

1.02 PAYMENT

- A. Subject to all other contract requirements, the Contractor shall be paid for "as-built" quantities of Work for which a price is given in the bid.
- B. Quantities on the Bid Form are for comparison in competitive bidding only and do not constitute the basis for payment or measurement of quantities.
- C. Quantities on the Bid Form are estimated and may be increased or decreased without limit.
- D. No separate payment will be made for one Payment Item as Work incidentally required to complete the Work of another.
- E. Payment for Work performed shall be made in accordance with the unit prices in the Bid. Retainage shall apply to all Contractor payments prior to final acceptance.

1.03 MEASUREMENT FOR PAYMENT

- A. Payment Limit Lines:
 - 1. Where payment limit lines are shown on the Contract Drawings, measurements of a Payment Item quantity will be made up to, but not beyond such lines.
 - 2. Where the actual Work of a Payment Item falls short of the payment limit line, measurement will be made to the line of the actual Work.

3. No payment will be made for quantities outside of payment limit lines unless authorized in writing by the Owner.

B. Methods of Measurement:

1. Measurements of lengths, widths, slope angles, and depths or elevations shall be made to determine "as-built" quantities of lengths, areas and volumes pertinent to Payment Items.
 - a. Unless otherwise specified, all lengths shall be horizontal distances.
 - b. Slope angles and elevations shall be measured using land surveying equipment.
2. Graphic representations of measured quantities shall be drafted to scale using the Drawings where convenient and appropriate. Additional drawings shall be drafted if required.
 - a. Irregular shapes representing areas and volumes shall be measured using a compensating polar planimeter or a computer digitizer.
 - b. Regular shapes shall be scaled.
3. Use of Drawings:
 - a. Unless otherwise agreed upon between the Contractor and Owner, the Drawings shall be used as the basis to establish existing grades and other existing topographic features.

C. Payment limits where Payment Lines are not shown on the Drawings:

1. Pipe Length: Measurement of pipe shall be made along the top of pipe, excluding fittings, valves and manholes, in place, taken as the laying length.
2. Except as specified otherwise, measurements of Payment Item quantities of weights, lengths, areas and volumes shall be made:
 - a. On "as-built" and in-place completed Work, during construction or at the time of Substantial Completion.
 - b. If no other feasible and practical methods of measurements are available, by delivery slips delivered to the Engineer.

3. Adjustments shall be made to eliminate overlaps in area and volume measurements.

1.04 PAYMENT ITEMS

- A. Separate payment will be made for the Unit Price and Lump Sum items listed on the Bid Form. Related work not specifically listed or identified below in 1.04 B but evidently necessary for satisfactory completion of the Item shall be considered to be included.

Payment for work below is for Utility work only. Utility work pay items represent work which is not otherwise covered by the Roadway work pay items for similar pay items and is not a duplication of any Roadway work but may represent incremental costs for similar pay items for Utility work that would not otherwise be covered under Roadway work scope of work.

- B. The following items apply to Bid Form Pay Items:

1. Mobilization and Demobilization: (Bid Item 1)

The lump sum to complete this item shall be full compensation for the preparatory work and operations in mobilizing for beginning utility work on the Project including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of field office, building, safety equipment and first aid supplies, sanitary and other facilities, as required by these Specifications, and state and local laws and regulations; and any other pre-construction expense necessary for the start of the Work; the cost of field engineering including disposal of cleared and grubbed material and debris, permits and fees, construction schedules, preconstruction video and photographs, field locating all existing utilities, project signs, shop drawings, temporary facilities, laydown storage area, construction aids, erosion control, work associated with contractor support during Owner/Engineer reviews and inspection, re-inspections and any re-work resulting from same, cleaning, project records documents, and operation and maintenance data, and for all other work required for demobilization. The Contractor shall submit invoices substantiating the cost of mobilization and demobilization with each pay request. Ten percent (10%) of the cost for mobilization and demobilization will be withheld until acceptance and final payment.

2. General Requirements, Bonds, and Permits: (Bid Item 2)

The lump sum payment to complete this item shall include all insurance requirement costs, the cost of all bonds, permits, and all administrative

costs associated with acquiring and maintaining the necessary coverage as described in the Contract Documents for the utility work. This item will be paid upon each payment request made by the Contractor. The Contractor shall attach with the pay request invoices to substantiate that the Contractor has obtained appropriate insurance and bonds.

3. Locate Utilities in Advance of Construction (Bid Item No. 3):

- a. Measurement of various items to Locate Utilities in Advance of Construction will not be made for payment and all items shall be included in the lump sum price.
- b. Payment for Locating Utilities in Advance of Construction Contractor will be made at the contract lump sum price for the item, which price and payment shall be full compensation for all labor, materials, and equipment necessary to physically locate all utilities in the immediate area using non-destructive digging equipment, supplies and personnel experienced in the use of subsurface utility engineering (SUE) to determine precise horizontal and vertical positions of utilities. The Contractor shall perform utility locates at least 21 calendar days in advance of construction and submit all conflicts to the Engineer and City. The Engineer will have 7 calendar days to respond with changes to the Contract Documents. This construction scheduling will allow all necessary decisions to be made prior to the contractor's crews reaching the work area and having a delay claim and/or a crew mobilization/demobilization claim.

The work shall only be performed in locations to be excavated during construction and includes equipment to paint/mark the approximate position of the public and/or private underground utility, vacuum excavation equipment that includes air tools (water jet, air lance) to break up the surface and soil. The vacuum excavation equipment involves removing the disturbed soil and temporarily storing it. The exposed underground utility is examined and pertinent data such as size, type, material, and depth is gathered. A marker such as an iron rod and cap or nail and disk are placed next to the test hole and the depth measurement is taken to this point. The stored soil is then returned to the excavated test hole and the surface is returned to its original state; asphalt patch is tamped into the hole when applicable; however, use of asphalt patch must be approved by City staff prior to locating. Markings such as paint and/or lathe and ribbon are left near the hole for future identification. Assume all lines to be located are active lines and service must be maintained at all times possible.

4. Survey & Layout and As-Built Survey: (Bid Item 4)

The lump sum payment shall cover all costs to layout all aspects of the proposed utility improvements. Costs for partial and final clearance submittal requirements. It also includes an overall as-built survey of the completed utility improvements including electronic files in AutoCAD.

5. Water Main: (Bid Items 5 through 14)
(Sub-items dependent on pipe size and type)

a. Measurement and payment for the pipe, except as otherwise specified, will be based on the laying length of the pipe in linear feet actually placed as measured along the centerline of the completed pipe, excluding the length of fittings, valves, and specials measured along their centerlines as shown on the Drawings. Branch pipes will be measured along their centerlines from the centerline of the main pipe.

b. Payment for pipe will be made at the Contract unit price per linear foot for the size and type installed, which price and payment shall be full compensation for all clearing, grubbing, maintenance of traffic, excavation, sheeting, shoring, trench box, support of adjacent stormwater and other utilities, dewatering, pipe bedding, backfill and compaction for all pipe and other materials, restrained joints, thrust collars, supports, testing (pressure and bacteriological), pipe identification tape, insulated conducting wire, hiring of power company to hold and support power poles, site restoration, including landscaping and/or sodding, tree trimmings, vegetation removal, removing and resetting guys for existing utility poles, silt fencing, removal and replacement of driveways and roadways disturbed during construction on or associated with Clay Ct., Paco Ct., and Echo Ct., and all other areas not included in the roadway work, and for all equipment and all other work necessary to complete the installation as specified. All cost to clean, repair or restrain new or existing piping and appurtenances will be included under the payment for linear feet of pipe.

6. Grout and Abandon Existing Water Main (Bid Item 15)

a. Measurement of this item will be the actual length of pipe abandoned in place, as measured along the centerline.

- b. Payment to abandon the existing water main will be made at the contract unit price per linear foot, which price and payment shall be full compensation for all cutting, capping, restraint, and grouting of the existing water main, site restoration, including landscaping and/or sodding as necessary, tree trimmings, vegetation removal, and for all equipment and all other work necessary to complete the installation as specified. Costs associated with exposure to and handling of Asbestos Cement (AC) pipe are included in this item.

- 7. Removal and Disposal Existing Water Main (Bid Item 16):
 - a. Measurement for the removal and disposal of existing water main will be based on actual length of removal and disposal, as measured along the centerline.
 - b. Payment for removal and disposal will be made at the Contract unit price per linear foot, which price and payment shall be full compensation for removal and disposal of water main pipe, which may or may not be grouted prior to removal, material in pipe, suitable fill, dewatering, excavation, sheeting, shoring, trench box, support of adjacent utilities, site restoration, backfill and compaction including testing of compaction, and all other costs associated with the exposure to handling, removal, and disposal of asbestos cement (AC) pipe.

- 8. Fittings – Potable: (Bid Items 17 through 32)
(Teas, Bends, Crosses and Reducers)
 - a. The number of fittings of the various sizes and types to be paid for will be determined by the actual count of units installed and accepted.
 - b. Payment for fittings will be made at the Contract unit price per unit for the respective size and type.

- 9. Gate Valve with Box: (Bid Items 33 through 37)
 - a. Measurement and payment of gate valves of the various sizes and types to be paid for will be determined by the actual count of units installed and accepted.
 - b. Payment for gate valves will be made at the Contract unit price per valve for the respective size and type, which price and payment shall be full compensation for furnishing, installing, and testing the

valve complete with mechanical restraints, nut extensions, locate wire and access, filter fabric, No. 57 stone, tie rods, and valve box to grade, concrete collar, disc, brass numbering plates and cover.

10. Air Release Valves: (Bid Item 38)

- a. The number of Air Release Valves to be paid for will be determined by the actual units installed and accepted.
- b. Payment for Air Release Valves will be made at the Contract unit price per the item, which price and payment shall be full compensation for furnishing, installing to finished grade and testing the valve, complete with the saddle, nipple, valve, concrete vault, frame, cover, access lid, concrete pad, above grade enclosure, piping, other required appurtenances, site restoration, including landscaping and/or sodding as necessary, tree trimmings, vegetation removal, site restoration, including landscaping and/or sodding as necessary, tree trimmings, vegetation removal, and for all equipment and all other work necessary to complete the installation as specified.

11. Fire Hydrant Assemblies: (Bid Item 39)

- a. Measurement and payment for the Fire Hydrants to be paid for will be determined by the actual count of units installed and accepted.
- b. Payment for Fire Hydrants will be made at the Contract unit price per hydrant for the respective size and type, which price and payment shall be full compensation for furnishing, installing (to finished grade) and testing the hydrant, complete with restraining mechanisms, site restoration, including landscaping and/or sodding as necessary, tree trimmings, vegetation removal, and for all equipment and all other work necessary to complete the installation as specified. The hydrant tee, pipe stub from the main to the hydrant, the gate valve and box and removal of existing hydrants within project limits will also be paid for under this item.

12. Water Services (Bid Item 40 through 43)

- a. Measurement of this item will be actual number of water services installed and accepted.
- b. Payment for water services will be made at the contract unit price per service, which price and payment shall be full compensation for furnishing and installing each service complete with

polyethylene tubing, corporation stop, curb stop, meter, meter box, 1-1/4" Schedule 40 PVC casing and reconnection of water service including any work required to bring the meter box to final grade and or relocate it from a concrete area to a sodded area, site restoration, including landscaping and/or sodding as necessary, tree trimmings, vegetation removal, and for all equipment and all other work necessary to complete the installation as specified. Payment for concrete replacement will be made in either the sidewalk or driveway line items as appropriate. Larger connections if applicable will require PVC piping below grade and DIP above grade. This item shall include all work required to provide temporary service to existing customers during shut downs related to service work.

13. Direct Connection – Potable: (Bid Items 44 through 47)
(Sub-items dependent on size)

- a. The number of direct connections of the various sizes and types to be paid for will be determined by the actual count of connections installed and accepted.
- b. Payment for direct connections will be made at the Contract unit price per direct connection for the respective size and type, which price and payment shall be full compensation for furnishing connection pipe from isolation valve to connection point, final tie-in fitting (bend, reducer, etc.), installing, cleaning, testing (pressure and bacteriological) of proposed and depressurized existing main, complete with plugs, caps, mechanical restraints, tie rods, and other required appurtenances, thrust collars or other restraint of existing and new pipes, pipe identification tape, insulated conducting wire, site restoration, including landscaping and/or sodding, tree trimmings, vegetation removal, and for all equipment and all other work necessary to complete the installation as specified. This item shall include all work required to notify and/or provide temporary service to existing customers during shut downs. All cost to clean, repair and restrain new or existing piping and appurtenances at the connection point as required by the restrained joint table are included under the payment of this item.

14. Testing Laboratory Services (Bid Item 48)

The lump sum payment to complete this item is in accordance to Section 01410 and as set out in the Contract Documents.

END OF SECTION

SECTION 01100

SPECIAL PROJECT PROCEDURES

PART 1 - GENERAL

1.01 PUBLIC NUISANCE

- A. The Contractor shall not create a public nuisance including, but not limited to, encroachment on adjacent lands, flooding of adjacent lands, or excessive noise.
- B. Sound levels measured by the Engineer shall not exceed 50 dBA from 7 P.M. to 7 A.M. or 60 dBA 7 A.M. to 7 P.M. This sound level shall be measured at the exterior of the nearest exterior wall of the nearest residence. Levels at the equipment shall not exceed 85 dBA at any time. Sound levels in excess of these values are sufficient cause to have the Work halted until equipment can be quieted to these levels. Work stoppage by the Engineer or Owner for excessive noise shall not relieve the Contractor of the other portions of this Specification including, but not limited to, completion dates and bid amounts.
- C. No extra charge may be made for time lost due to work stoppage resulting from the creation of a public nuisance.

1.02 ASBESTOS PIPE REMOVAL AND DISPOSAL PROCEDURES

- A. General. The Contractor will be responsible for permitting, removal and disposal of asbestos-cement (A-C) pipe segments required to perform the Work as shown on the Drawings. The following paragraphs briefly summarize permitting, field procedures and disposal activities related to the A-C pipe. In these discussions, certain local, state and federal laws have been referenced. The Contractor must comply with all applicable local, state and federal laws/regulations whether or not such laws/regulations are referenced in these specifications.

The Contractor shall provide evidence of experience of proper procedures in removal, handling and disposal of asbestos-cement pipe materials within the past five (5) years. References from at least three completed projects shall be provided at the Preconstruction Conference. If the Contractor proposes to utilize the services of a duly qualified Subcontractor for this portion of the work, these same requirements shall be met.

- B. Permitting. The Contractor shall apply for and obtain all permits related to removal of the A-C pipe segments. In accordance with Florida Department of Environmental Protection (FDEP) Rule 62-257.30 1 of the Florida Administrative Code (FAC), the Contractor must submit a "Notice of Asbestos Removal Project"

form with a copy to the Engineer. The Contractor will submit the form to FDEP in a timely manner in accordance with the schedule contained in Rule 62-257. The agencies that may require permits for this project are not necessarily limited to the FDEP.

- C. Field Procedures. The Contractor is responsible for all procedures, including safety and health procedures, which will be used when handling A-C pipe segments. The Contractor's handling of A-C pipe segments shall be in conformance with 29 CFR 1926.58 (OSHA Safety and Health Standards).

Cutting of A-C pipe shall be done in conformance with the recommended practices contained in the American Water Works Association's (AWWA) Manual No. M-16. Cutting methods should be used which minimize the production of airborne dust.

- D. Preparation of Transport of Materials. The Contractor will remove the pipe sections from the ground in whole pieces without fracturing, breaking or otherwise damaging pipe. The A-C pipe segments shall be carefully loaded onto the transport vehicle without damaging the pipe. The transport vehicle shall totally enclose the A-C pipe segments so that wind and rain cannot disperse dust from the pipe material. Transport of the A-C pipe segments shall also meet the requirements of the waste disposal agency.

- E. Waste Disposal. As stated in Rule 62-701.520(3), the FDEP indicates that asbestos containing waste materials can be accepted at a permitted Class I, II or III landfill. The regulations also indicate that the waste generator (the Contractor) shall make arrangements with the landfill operator before disposal of the asbestos containing waste materials and inform the operator of the quantity of the waste and the scheduled date the shipment will arrive at the landfill. The Contractor shall provide the Engineer and the Owner a manifest immediately following disposal.

1.03 Water Main and Force Main Clearance Packages

- A. The Contractor shall submit complete clearance packages in accordance with the requirements of the general notes on the contract drawings. Rejected submittals will result in a credit back to the Owner of \$500.00 per occurrence from the project retainage at the sole discretion of the Engineer and Owner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01340

SHOP DRAWINGS, WORKING DRAWINGS, AND SAMPLES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. The Contractor shall submit to the Engineer for review and approval, such Shop Drawings, Test Reports, and Product Data on materials and equipment (hereinafter in this Section called Data), and material samples (hereinafter in this Section called Samples) as are required for the proper control of work, including but not limited to those Shop Drawings, Data, and Samples for materials and equipment specified elsewhere in the Specifications and in the Drawings.
2. Within fourteen (14) calendar days after the Notice to Proceed, the Contractor shall submit to the Engineer a complete list of preliminary Data on items for which Shop Drawings are to be submitted. Included in this list shall be the names of all proposed manufacturers furnishing specified items. Review of this list by the Engineer shall in no way expressed or implied relieve the Contractor from submitting complete Shop Drawings and providing materials, equipment, etc., fully in accordance with the Contract Documents. This procedure is required in order to expedite final review of Shop Drawings.
3. The Contractor is to maintain an accurate updated submittal log and will bring this log to each scheduled progress meeting with the Owner and the Engineer. This log should include the following items:
 - a. Submittal description and number assigned.
 - b. Date to Engineer.
 - c. Date returned to Contractor (from Engineer).
 - d. Status of submittal (Approved, Approved as Noted, Amend and Resubmit, and Rejected).
 - e. Date of resubmittal and return (as applicable).
 - f. Date material release (for fabrication).

- g. Projected date of fabrication.
- h. Projected date of delivery to site.
- i. Status of O&M manuals submittal.
- j. Specification Section.
- k. Drawings sheet number.

B. Related Requirements Described Elsewhere:

1.02 CONTRACTOR'S RESPONSIBILITY

- A. It is the responsibility of the Contractor to check all drawings, data and samples prepared before submitting them to the Engineer for review. Each and every copy of the Drawings and data shall bear the Contractor's stamp showing that they have been so checked. Shop drawings submitted to the Engineer without the Contractor's stamp will be returned to the Contractor for conformance with this requirement. Shop drawings shall indicate any deviations in the submittal from requirements of the Contract Documents. If the Contractor takes exception to the specifications, the Contractor shall note the exception in the letter of transmittal to the Engineer.
- B. Determine and verify:
 - 1. Field measurements.
 - 2. Field construction criteria
 - 3. Catalog numbers and similar data.
 - 4. Conformance with Specifications.
- C. The Contractor shall furnish the Engineer a schedule of Shop Drawing submittals fixing the respective dates for the submission of shop and working drawings, the beginning and ending of manufacture, testing, and installation of materials, supplies, and equipment. This schedule shall indicate those that are critical to the progress schedule.
- D. The Contractor shall not begin any of the work covered by a Shop Drawing, Data, or a Sample returned for correction until a revision or correction thereof has been reviewed and returned to him, by the Engineer, with approval.

- E. The Contractor shall submit to the Engineer all drawings and schedules sufficiently in advance of construction requirements to provide no less than thirty (30) calendar days for checking and appropriate action from the time the Engineer receives them.

- F. All submittals shall be accompanied with a transmittal letter prepared in duplicate containing the following information:
 - 1. Date.
 - 2. Project Title and Number.
 - 3. Contractor's name and address.
 - 4. The number of each Shop Drawings, Project Data, and Sample submitted.
 - 5. Notification of Deviations from Contract Documents.
 - a. The Contractor shall indicate in **bold type** at the top of the cover sheet of submittal of shop drawing if there is a deviation from the Drawings, Specifications, or referenced specifications or codes.
 - b. The Contractor shall also list any deviations from the Drawings, Specifications, or referenced specifications or codes and identify in green ink prominently on the applicable Shop Drawings.
 - 6. Submittal Log Number conforming to Specification Section Number.

- G. The Contractor shall submit seven (7) copies of descriptive or product data information and Shop Drawings to the Engineer plus the number of copies which the Contractor requires returned. All blueprint Shop Drawings shall be submitted with one (1) set of mylar reproducibles and the same number of prints as Shop Drawings, plus the number of copies which the Contractor requires returned. The Engineer will review the blueprints and return to the Contractor the set of marked-up mylar reproducibles with appropriate review comments.

- H. The Contractor shall be responsible for and bear all costs of damages which may result from the ordering of any material or from proceeding with any part of Work prior to the completion of the review by the Engineer of the necessary Shop Drawings.

- I. The Contractor shall be fully responsible for observing the need for and making any changes in the arrangement of piping, connections, wiring, manner of installation, etc., which may be required by the materials/equipment he proposes

to supply both as pertains to his own work and any work affected under other parts, headings, or divisions of the Drawings and Specifications.

- J. The Contractor shall not use Shop Drawings as a means of proposing alternate items to demonstrate compliance with the Drawings and Specifications.
- K. Each submittal will bear a stamp indicating that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review and approval of that submittal as illustrated below.

(OWNER'S NAME) (PROJECT NAME) (PROJECT NUMBER)
SHOP DRAWING NO.: _____
SPECIFICATION SECTION: _____ DRAWING NO. _____
WITH RESPECT TO THIS SHOP DRAWING OR SAMPLE, I HAVE DETERMINED AND VERIFIED ALL QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS, AND SIMILAR DATA WITH RESPECT THERETO AND REVIEWED OR COORDINATED THIS SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.
_____ NO VARIATION FROM CONTRACT DOCUMENTS
_____ VARIATION FROM CONTRACT DOCUMENTS AS SHOWN
(CONTRACTOR'S NAME) (CONTRACTOR'S ADDRESS)
BY: _____ DATE: _____
AUTHORIZED SIGNATURE

- L. Drawings and schedules shall be checked and coordinated with the work of all trades and sub-contractors involved, before they are submitted for review by the Engineer and shall bear the Contractor's stamp of approval as evidence of such checking and coordination. Drawings or schedules submitted without this stamp of approval shall be returned to the Contractor for resubmission.

1.03 ENGINEER'S REVIEW OF SHOP DRAWINGS

- A. The Engineer's review of Shop Drawings, Data, and Samples as submitted by the Contractor will be to determine if the items(s) generally conforms to the information in the Contract Documents and is compatible with the design concept. The Engineer's review and exceptions, if any, will not constitute an approval of dimensions, connections, quantities, and details of the material, equipment, device, or item shown.

- B. The review of drawings and schedules will be general, and shall not be construed:
1. As permitting any departure from the Contract Documents.
 2. As relieving the Contractor of responsibility for any errors, including details, dimensions, and materials.
 3. As approving departures from details furnished by the Engineer, except as otherwise provided herein.
- C. If the drawings or schedules as submitted describe variations and show a departure from the Contract Documents which the Engineer finds to be in the interest of the Owner and to be so minor as not to involve a change in Contract Price or contract time, the Engineer may return the reviewed drawings without noting an exception.
- D. "Approved As Noted" - Contractor shall incorporate Engineer's comments into the submittal before release to manufacturer. The Contractor shall send a letter to the Engineer acknowledging the comments and their incorporation into the Shop Drawing.
- E. "Amend And Resubmit" - Contractor shall resubmit the Shop Drawing to the Engineer. The resubmittal shall incorporate the Engineer's comments highlighted on the Shop Drawing.
- F. "Rejected" - Contractor shall correct, revise and resubmit Shop Drawing for review by Engineer.
- G. Resubmittals will be handled in the same manner as first submittals. On resubmittals the Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, to revisions other than the corrections requested by the Engineer on previous submissions. The Contractor shall make any corrections required by the Engineer.
- H. If the Contractor considers any correction indicated on the drawings to constitute a change to the Drawings or Specifications, the Contractor shall give written notice thereof to the Engineer.
- I. When the Shop Drawings have been completed to the satisfaction of the Engineer, the Contractor shall carry out the construction in accordance therewith and shall make no further changes therein except upon written instructions from the Engineer.

- J. No partial submittals will be reviewed. Submittals not deemed complete will be stamped "Rejected" and returned to the Contractor for resubmittal. Unless otherwise specifically permitted by the Engineer, make all submittals in groups containing all associated items for:
1. Systems.
 2. Processes.
 3. As indicated in specific Specifications Sections.

All drawings, schematics, manufacturer's product Data, certifications, and other Shop Drawing submittals required by a system specification shall be submitted at one time as a package to facilitate interface review.

- K. Only the Engineer shall utilize the color "red" in marking Shop Drawing submittals.
- L. Shop drawing and submittal data shall be reviewed by the Engineer for each original submittal and first resubmittal; thereafter review time for subsequent resubmittals shall be charged to the Contractor and the Contractor shall reimburse the Owner for services rendered by the Engineer as specified in the Supplementary Conditions.

1.04 SHOP DRAWINGS

- A. When used in the Contract Documents, the term "Shop Drawing" shall be considered to mean Contractor's plans for materials and equipment which become an integral part of the Project. Shop Drawings shall be complete and detailed and shall consist of fabrication, erection, setting and schedule drawings, manufacturer's scale drawings, and wiring and control diagrams. Catalogs cuts, catalogs, pamphlets, descriptive literature, and performance and test data shall be considered only as supportive information to required Shop Drawings as defined above. As used herein, the term "manufactured" applies to standard units usually mass-produced; and "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements.
- B. Manufacturer's catalog sheets, brochures, diagrams, illustrations, and other standard descriptive data shall be clearly marked to identify pertinent materials, products, or models. Delete information which is not applicable to the Work by striking or cross-hatching.
- C. Each Shop Drawing shall be submitted with an 8-1/2" by 11" cover sheet which shall include a title block for the submittal. Each Shop Drawing cover sheet shall

have a blank area 3-1/2 inches high by 4-1/2 inches wide, located adjacent to the title block. The title block/cover sheet shall display the following:

1. Project Title and Number.
 2. Name of project building or structure.
 3. Number and title of the Shop Drawing.
 4. Date of Shop Drawing or revision.
 5. Name of Contractor and subcontractor submitting drawing.
 6. Supplier/manufacturer.
 7. Separate detailer when pertinent.
 8. Specification title and Section number.
 9. Applicable Drawing number.
- D. Data on materials and equipment shall include, without limitation, materials and equipment lists, catalog data sheets, catalog cuts, performance curves, diagrams, verification of conformance with applicable standards or codes, materials of construction, and similar descriptive material. Materials and equipment lists shall give, for each item thereon, the name and location of the supplier or manufacturer, trade name, catalog reference, size, finish, and all other pertinent Data.
- E. For all mechanical and electrical equipment furnished, the Contractor shall provide a list including the equipment name, and address, and telephone number of the manufacturer's representative and service company so that service and/or spare parts can be readily obtained.
- F. If drawings show variations from Contract requirements because of standard shop practice or for other reasons, the Contractor shall describe such variations in his letter of transmittal. If acceptable, proper adjustment in the Contract shall be implemented where appropriate. If the Contractor fails to describe such variations, he shall not be relieved of the responsibility for executing the Work in accordance with the Contract, even though such drawings have been reviewed.
- G. All manufacturers or equipment suppliers who propose to furnish equipment or products shall submit an installation list to the Engineer along with the required shop drawings. The installation list shall include at least five (5) installations where identical equipment has been installed and has been in operation for a

period of at least two (2) years unless specified otherwise in the Specification Section applicable.

1.05 WORKING DRAWINGS

- A. When used in the Contract Documents, the term "Working Drawings" shall be considered to mean the Contractor's plan for temporary structures such as temporary bulkheads, support of open cut excavation, support of utilities, ground water control systems, forming and falsework for underpinning, and for such other work as may be required for construction but does not become an integral part of the Project.
- B. Copies of working drawings as noted in paragraph 1.05 A. above, shall be submitted to the Engineer where required by the Contract Documents or requested by the Engineer, and shall be submitted at least thirty (30) calendar days (unless otherwise specified by the Engineer) in advance of their being required for the Work.
- C. Working Drawings shall be signed by a registered Professional Engineer, currently licensed to practice in the State of Florida, and shall convey, or be accompanied by, calculation or other sufficient information to completely explain the structure, machine, or system described and its intended manner of use. Prior to commencing such work, working drawings must have been reviewed without specific exceptions by the Engineer, which review will be for general conformance and will not relieve the Contractor in any way from his responsibility with regard to the fulfillment of the terms of the Contract. All risks to new or existing work are assumed by the Contractor; the Owner and Engineer shall have no responsibility therefor.

1.06 SAMPLES

- A. The Contractor shall furnish, for the approval of the Engineer, samples required by the Contract Documents or requested by the Engineer. Samples shall be delivered to the Engineer as specified or directed. The Contractor shall prepay all shipping charges on samples. Materials or equipment for which samples are required shall not be used in the Work until approved by the Engineer.
- B. Samples shall be of sufficient size and quantity to clearly illustrate:
 - 1. Functional characteristics of the product, with integrally related parts and attachment devices.
 - 2. Full range of color, texture, and pattern.
 - 3. A minimum of three (3) samples of each item shall be submitted.

- C. Each sample shall have a label indicating:
1. Name of Project.
 2. Name of Contractor and subcontractor.
 3. Material or equipment represented.
 4. Place of origin.
 5. Name of producer/supplier and brand (if any).
 6. Location in Project.
 7. Submittal and specification numbers.

(Samples of finished materials shall have additional marking that will identify them under the finished schedules.)

- D. The Contractor shall prepare a transmittal letter and a description sheet for each shipment of samples. The description sheet shall contain the information required in Paragraphs 1.06B and C above. He shall enclose a copy of the letter and description sheet with the shipment and send a copy of the letter and description sheet to the Engineer. Approval of a sample shall be only for the characteristics or use named in such approval and shall not be construed to change or modify any Contract requirements.
- E. Approved samples not destroyed in testing shall be sent to the Engineer or stored at the site of the Work. Approved Samples of the hardware in good condition will be marked for identification and may be used in the Work. Materials and equipment incorporated in the Work shall match the approved Samples. Samples which failed testing or were not approved will be returned to the Contractor at his expense, if so requested at time of submission.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01390

COLOR AUDIO-VIDEO
PRECONSTRUCTION RECORD

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: Prior to commencing work, the Contractor shall have a continuous color audio-video DVD recording taken along the entire length of the Project and at all proposed construction sites within the Project area to serve as a record of pre-construction conditions.

1.02 QUALITY ASSURANCE

- A. The Contractor shall engage the services of a professional electrographer. The color audio-video DVDs shall be prepared by a responsible commercial firm known to be skilled and regularly engaged in the business or preconstruction color audio-video DVD documentation.
- B. The electrographer shall furnish to the Engineer a list of all equipment to be used for the audio-video taping, i.e., manufacturer's name, model number, specifications and other pertinent information.
- C. Additional information to be furnished by the electrographer is the names and addresses of two references that the electrographer has performed color audio-video taping for, on projects of a similar nature, within the last 12 months.
- D. Owner's Representative must be present during filming. Provide Owner five (5) days notice prior to start of filming.
- E. No construction shall begin prior to review and approval of the DVDs covering the construction area by the Owner and Engineer. The Engineer shall have the authority to reject all or any portion of a video DVD not conforming to specifications and order that it be redone at no additional charge.
- F. The Contractor shall reschedule unacceptable coverage within five (5) days after being notified. The Engineer shall designate those areas, if any, to be omitted from or added to the audio-video coverage.
- G. DVD recordings shall not be made more than ninety (90) days prior to construction in any area. All DVDs and written records shall become property of Owner.

PART 2 - PRODUCTS

2.01 AUDIO-VIDEO DVDS

- A. Audio-video DVDs shall be new. Reprocessed DVDs will not be acceptable.

PART 3 - EXECUTION

3.01 EQUIPMENT

- A. All equipment, accessories, materials and labor to perform this service shall be furnished by the Contractor.
- B. The total audio-video system shall reproduce bright, sharp, clear pictures with accurate colors and shall be free from distortion, tearing, rolls or any other form of imperfection. The audio portion of the recording shall reproduce the commentary of the camera operator with proper volume, clarity and be free from distortion and interruptions.
- C. When conventional wheeled vehicles are used, the distance from the camera lens to the ground shall not be more than ten (10) feet. In some instances, audio-video DVD coverage may be required in areas not accessible by conventional wheeled vehicles. Such coverage shall be obtained by walking or special conveyance provided by the Contractor.
- D. The color video camera used in the recording system shall have a horizontal resolution of 350 lines at center, a luminance signal to noise ratio of 45 dB and a minimum illumination requirement of one (1) foot candle.

3.02 RECORDED INFORMATION - AUDIO

- A. Each DVD shall begin with the current date, project name and municipality and be followed by the general location, i.e., viewing side and direction of progress. The audio track shall consist of an original live recording. The recording shall contain the narrative commentary of the electrographer, recorded simultaneously with his fixed elevation video record of the zone of influence of construction.
- B. The Owner and Engineer reserves the right to supplement the audio portion of the taping as deemed necessary. A representative of the Owner or Engineer shall be selected to provide such narrative.

3.03 RECORDED INFORMATION - VIDEO

- A. All video recordings shall, by electronic means, display on the screen the time of day, the month, day and year of the recording. This time and date information must be continuously and simultaneously generated with the actual recording.
- B. Each video DVD shall have a log of that video DVD's contents. The log shall describe the various segments of coverage contained on that video DVD in terms of the names of streets or easements, coverage beginning and end, directions of coverage, video unit counter numbers, engineering stationing numbers and the date.

3.04 LIGHTING

- A. All audio-video shall be done during time of good visibility. No recording shall be done during precipitation, mist or fog. The recording shall only be done when sufficient sunlight is present to properly illuminate the subjects of recording and to produce bright, sharp video recordings of those subjects.

3.05 SPEED OF TRAVEL

- A. The rate of speed in the general direction of travel of the vehicle used during recording shall not exceed 44 feet per minute. Panning, zoom-in and zoom-out rates shall be sufficiently controlled to maintain a clear view of the object.

3.06 AREA OF COVERAGE

- A. Coverage shall include all surface features located within the zone of influence of construction supported by appropriate audio coverage. Such coverage shall include, but not be limited to, existing driveways, sidewalks, curbs, pavements, ditches, mailboxes, landscaping, culverts, fences, signs, and headwalls within the area covered.

END OF SECTION

SECTION 01410

TESTING AND TESTING LABORATORY SERVICES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. The Contractor shall employ and pay for services of an independent testing laboratory to perform soils and concrete testing. The testing laboratory will be selected by the Engineer and Owner (City) and shall complete various testing activities as directed by the Engineer and/or Owner; however, the Contractor shall pay for the testing services from an allowance established by the Owner. For this project, the allowance is \$5,000. Receipts will be required for payment and any unused amounts of the lump sum allowance will be retained by the Owner.
2. Contractor shall cooperate with the laboratory to facilitate the execution of its required services.

B. Related Requirements Described Elsewhere:

1. Conditions of the Contract.
2. Respective section of the Specifications: Certification of products.
3. Each Specification section listed: Laboratory tests required, and standards for testing.
4. Testing laboratory inspection, sampling and testing is required for, but not limited to the following:
 - a. Trenching, Backfilling, and Compacting.
 - b. Pavement Removal and Replacement

C. The following schedule defines the responsibilities of various tests.

Test	Notes	Paid for By
Soil Compaction	Pipe Work: every 300 ft. at each lift of compaction minimum. Beneath Structures: each 500 SF each lift of compaction minimum.	Contractor
Settlement Monitoring	As required by testing laboratory	Contractor
LBR	Pipe Work: One test per road crossing. Base: Each 600 SF at each lift of compaction minimum.	Contractor
Asphaltic Concrete Pavement	Surface Course: Each 600 SF at least three tests per lift minimum.	Contractor
Concrete	Slump test each delivery and compression test five cylinders every 50 C.Y. minimum.	Contractor

D. Additional Tests: The Owner shall pay for first tests as specified herein. In the event that first test samples do not meet the applicable material specifications, the Contractor shall take measures to conform the material and equipment to the Specifications. All subsequent tests after the first test required to show compliance with the Specifications shall be paid for by the Contractor.

1.02 CONTRACTOR'S RESPONSIBILITIES

- A. Cooperate with Owner's personnel and laboratory personnel. Provide access to Work and manufacturer's operations.
- B. Provide to the laboratory the preliminary design mix proposed to be used for concrete, and other materials mixes which require control by the testing laboratory.
- C. Materials and equipment used in the performance of work under this Contract are subject to inspection and testing at the point of manufacturer or fabrication. Standard specifications for quality and workmanship are indicated in the Contract Documents. The Engineer may require the Contractor to provide statements or certificates from the manufacturers and fabricators that the materials and equipment provided by them are manufactured or fabricated in full accordance with the standard specifications for quality and workmanship indicated in the

Contract Documents. All costs of providing statements and certificates shall be a subsidiary obligation of the Contractor, and no extra charge to the Owner shall be allowed on account of such testing and certification.

- D. Furnish incidental labor and facilities:
 - 1. To provide access to Work to be tested.
 - 2. To facilitate inspections and tests.
- E. Notify Owner a minimum of one (1) working day in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 02050

DEMOLITION

PART 1-GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. This section includes furnishing all labor, materials, equipment, and incidentals required for demolition of the existing gravity sewer and manholes as shown on the Drawings and as specified herein.
2. This section provides for the complete or partial removal and disposal of specified existing structures, foundations, slabs, existing piping and miscellaneous appurtenances encountered during demolition operations. See Section 02080 Abandonment, Removal and Disposal of Existing Pipe Removed from Service and Section 03600 Grouting for existing piping to be grouted and abandoned in place. See Section 01100 Special Project Procedures for asbestos cement (AC) pipe handling.
3. The sequence of demolition of the existing structures will be in accordance with the approved Demolition and Removal Plan as specified in Paragraph 3.02 of this Section. The Contractor is solely responsible for the demolition sequencing of the work.
4. The Contractor shall be responsible for:
 - a. Approximate locations and dimensions of piping and structures are shown in the Contract Drawings demolition plans.
 - b. All piping and structures associated with the this project shall be demolished and removed according to this Specification.
 - c. Termination of all electric in accordance with local codes and NEC.
 - d. Final grading and site restoration.
 - e. Disposal of non-salvageable and excess unacceptable materials as specified below.
 - f. All concrete structures and slabs shall be removed before filling and compacting the depression with clean fill.
 - g. Water and sewer service shall not be disturbed, irrigation piping shall not be disturbed, and overhead electric shall not be disturbed.
5. The Contractor shall examine the various drawings regarding the proposed site, visit the proposed site and determine for himself the extent of the work,

the extent of the work affected therein and all conditions under which he is required to perform the various operations.

1.02 PERMITS AND NOTICES

- A. Permits and Licenses: Contractor shall obtain all necessary permits and licenses performing the work and shall furnish a copy of same to the Engineer prior to commencing work. The Contractor shall comply with the requirements of the permits.
- B. Notices: If applicable, Contractor shall issue written notices of planned demolition to companies or local authorities owning utility conduit, wires or pipes running to or through the project site. Copies of said notices shall be submitted to the Engineer.
- C. Utility Services: If applicable, Contractor shall notify utility companies or local authorities furnishing gas, water, electrical, telephone or sewer service prior to demolition activities.

1.03 CONDITIONS OR STRUCTURES

- A. The Owner and the Engineer assume no responsibility for the actual condition of the structures to be demolished or modified.
- B. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner insofar as practicable. However, variation within the structure may occur prior to the start of demolition work.

1.04 RULES AND REGULATIONS

- A. The Standard Building Codes shall control demolition, modification or alteration of the existing structures.
- B. No blasting shall be done on site. The Contractor shall not bring or store any explosives on site.

1.05 DISPOSAL OF MATERIAL

- A. Salvageable material shall become the property of the Owner, if the Owner requests any specific item. The Contractor shall dismantle all materials to such a size that it can be readily handled, and deliver any of this salvageable material requested by the Owner to a storage area designated by the Owner.
- B. The following type of materials are examples of what the Owner desires to keep:
 - 1. Pipes, fire hydrants, and valves.

2. Equipment.
 3. Miscellaneous metals and other materials at the discretion of the Owner.
- C. Any materials that the owner rejects shall become the Contractor's property and must be removed from the site.
 - D. Concrete, concrete block and non-salvageable bricks shall be hauled to a waste disposal site by the Contractor.
 - E. All other material shall be hauled to a waste disposal site by the Contractor.
 - F. The storage, or sale, of removed items on the site will not be allowed.
 - G. The Contractor is responsible for the dewatering of pipelines.

1.06 SUBMITTALS

- A. Submit to the Engineer for approval, two (2) copies of the proposed demolition and removal plan for the structures and modifications as shown on the Drawings or as specified herein prior to the start of work. Include in the schedule the coordination of shutoff, capping and continuation of utility service as required.

The demolition and removal plan shall include as a minimum, the following:

1. A detailed sequence of demolition and removal work to insure the uninterrupted progress of the Owner's operations, and the expeditious completion of the Contractor's work.
 2. Evidence (by signature) of approval of the Owner's plant operator of the work plan.
- B. Before commencing demolition work, all modifications necessary to bypass the affected structure will be completed. Contractor shall coordinate with the Owner's personnel to determine the locations of the affected valves and fittings.

1.07 TRAFFIC AND ACCESS

- A. Conduct demolition and modification operation, and the removal of equipment and debris to ensure minimum interference with roads, streets or walks both on-site and off-site and to ensure minimum interference with occupied or used facilities.
- B. Special attention is directed towards maintaining safe and convenient access to the existing site.

- C. Do not close or obstruct streets or walks without permission from the Owner and Engineer. Provide alternate traffic routes around closed or obstructed access ways.

1.08 DAMAGE

- A. Promptly repair damage caused to adjacent facilities or structures by demolition operations at no cost to the Owner.

1.09 UTILITIES

- A. Maintain existing utilities to remain in service and protect against damage during demolition operations.
- B. Do not interrupt existing utilities serving occupied or used facilities, except when authorized by the Owner and the Engineer. Provide temporary service during interruptions to existing utilities as acceptable to the Owner.
- C. The Contractor shall cooperate with the Owner to shut off utilities serving structures of the existing facilities as required by demolition operations.
- D. The Contractor shall be solely responsible for making all necessary arrangements and for performing any necessary work involved in connection with the discontinuance or interruption of all public and private utilities or services under this jurisdiction of utility companies.
- E. All utilities being abandoned shall be disconnected and terminated at the service mains in conformance with the requirement of the utility companies or the municipality owning or controlling them.

1.10 POLLUTION CONTROL

- A. For pollution control, use water sprinkling, temporary enclosures, and other suitable methods as necessary to limit the amount of dust and dirt rising and scattering in the air to the lowest level of air pollution practical for the conditions or work. Comply with the governing regulations.
- B. Clean structures and improvements of all dust, dirt, and debris caused by demolition operations as directed by the Engineer. Return areas to conditions existing prior to the start of work.

1.11 QUALITY CONTROL

- A. Protect all existing materials and equipment either in operation or to be salvaged or reused, from damage.

- B. Cap or plug all lines to be abandoned. Place covers and label all junction boxes, conduits, and wire as abandoned.
- C. Leave all exposed ends of all pipe and conduit or junction boxes covered and safe.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION

3.01 SEQUENCE OF WORK

- A. The sequence of demolition and renovation of existing facilities will be in accordance with the approved demolition and removal plan as specified in Paragraph 1.06 of this section.

3.02 REMOVAL OF EXISTING PROCESS EQUIPMENT, PIPING AND APPURTENANCES

- A. Existing equipment, piping, manholes, buried and non-buried valving, and appurtenances shall be removed or abandoned in-place as shown or dictated or the Drawings, and/or specified herein.
- B. All equipment piping and appurtenances shall be cleaned, flushed, and drained. Equipment to be retained by the Owner as specified in Paragraph 1.05 above shall be dismantled sufficiently to permit thorough cleaning and draining. All valves shall be left open. All abandoned piping shall be capped and sleeves and openings remaining after removal of the existing equipment, piping, and appurtenances shall be plugged and sealed.

END OF SECTION

SECTION 02080

ABANDONMENT, REMOVAL AND DISPOSAL OF EXISTING PIPE REMOVED FROM SERVICE

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: Furnish all labor, materials, equipment and incidentals required to abandon, remove, salvage and/or dispose of existing water main pipelines as shown on the Drawings and as specified herein.
- B. Definitions:
 - 1. Pipeline Abandonment - isolate from active pipelines, remove from service, dispose of pipeline contents, plug pipeline, fill pipeline with specified cementaceous material, leave pipe in place.
 - 2. Pipeline Removal - isolate from active pipelines, remove from service. dispose of pipeline contents, remove pipe, valves, fittings, dispose or stockpile removed materials as required.

1.02 QUALITY ASSURANCE

- A. Permits and Licenses: Contractor shall obtain and pay respective fees for all necessary permits and licenses for performing the Work and shall furnish a copy of same to the Engineer prior to commencing the Work. The Contractor shall comply with the requirements of the permits.
- B. Notices: Contractor shall issue written notices of planned work to companies or local authorities owning utility conduit, wires or pipes running to or through the project site. Copies of said notices shall be submitted to the Engineer.
- C. Standards:
 - 1. Florida Administrative Code 62-204.800.
 - 2. National Emission Standards Hazardous Air Pollution (NESHAP), 40 CFR Part 61, Subpart M, latest revision.
 - 3. Occupational Safety and Health Act, 29 CFR
 - 4. The Environmental Protection Agency (EPA) Asbestos Abatement Worker Protection Rule.
 - 5. Florida Statute 455.300.

D. Quality Control

1. It shall be the responsibility of the Contractor to provide supervision and inspections to ensure that the existing piping is removed and disposed, salvaged or abandoned as designated in the Drawings and as specified herein.

1.03 SUBMITTALS

A. Shop Drawings

1. Shop drawings shall be submitted to the Engineers acceptance prior to construction in accordance with Division 1 for the following:
 - a. Grout
 - b. Caps and plugs

PART 2 - MATERIALS (Not Used)

PART 3 - EXECUTION

3.01 REMOVAL, ABANDONMENT AND DISPOSAL

- A. General: Existing piping designated on the Drawings to be removed shall be exposed and removed by the Contractor in accordance with the requirements specified herein.
- B. Types of pipe to be removed:
 1. Ductile Iron Water Main
 2. PVC Water Main
 3. Asbestos Cement (AC) Water Main in conflict with proposed drainage improvements (structures, pipes, etc.). See Section 01100 Special Project Procedures for asbestos cement (AC) pipe handling.
- C. Removal and Disposal:
 1. Pipe designated to be removed and disposed by the Contractor shall be completely drained and the contents properly disposed. The pipe shall then be completely removed from the site, including fittings, valves other in-line devices.
- D. Removal of material to be salvaged:
 1. Pipe, fire hydrants, and valves to be removed and salvaged as directed by the Owner shall be completely drained and the contents properly disposed. The pipe shall then be thoroughly pressure washed, palletized on wooden skids to

a dimension not exceeding the recommendation of the manufacturer, and conveyed to the Owner at the location designated by the Owner.

E. Abandonment:

1. Types of pipe to be abandoned in place:
 - i. Asbestos Cement (AC) Water Main that is not in conflict with roadway/drainage improvements. See Section 01100 Special Project Procedures for asbestos cement (AC) pipe handling.
2. All pipe designated to be abandoned on this project shall be left in place and filled with grout in accordance with Section 03600, "Grouting" as shown on the Drawings.
3. Plugs: Pipe to be grouted shall be capped or plugged with a fitting. All caps and plugs shall be submitted to the Engineer for approval. Existing pipe shall be properly restrained per the restrained joint table requirements with thrust collars or manufactured restraints based on conditions that result from cutting pipes and/or closing valves to grout pipe to be abandoned.

END OF SECTION

SECTION 02100

SITE PREPARATION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work

1. This Section covers clearing, grubbing, and stripping along the construction sites, complete as specified herein.
2. The Contractor shall clear and grub all of the area within the limits of construction or as required, which includes but is not limited to, utility easements. The width of the area to be cleared shall be established by the Engineer prior to the beginning of any clearing.

PART 2 - EXECUTION

2.01 CLEARING

- A. The surface of the ground, for the area to be cleared and grubbed, shall be completely cleared of all timber, brush, stumps, roots, grass, weeds, rubbish, and all other objectionable obstructions resting on or protruding through the surface of the ground. However, trees designated by the Engineer shall be preserved as hereinafter specified. Clearing operations shall be conducted so as to prevent damage to existing structures and installations, and to those under construction, and so as to provide for the safety of employees and others. Clearing for structures shall consist of topsoil and vegetation removal.

2.02 GRUBBING

- A. Grubbing shall consist of the complete removal of all stumps, roots larger than 1-1/2 inches in diameter, matted roots, brush, timber, logs, and any other organic or metallic debris not suitable for foundation purposes, resting on, under, or protruding through the surface of the ground to a depth of 18 inches below the subgrade. All depressions excavated below the original ground surface for or by the removal of such objects shall be refilled with suitable materials and compacted to a density conforming to the surrounding ground surface.

2.03 STRIPPING

- A. In areas so designated, topsoil shall be stockpiled. Topsoil so stockpiled shall be protected until it is placed as specified. Any topsoil remaining after all Work is in place shall be disposed of by the Contractor.

2.04 DISPOSAL OF CLEARED AND GRUBBED MATERIAL

- A. The Contractor shall dispose of all material and debris from the clearing and grubbing operation by hauling such material and debris away to an approved disposal site. Disposal by burning or burial will not be permitted. The cost of disposal (including hauling) of cleared and grubbed material and debris shall be considered a subsidiary obligation of the Contractor, the cost of which shall be included in the Contract Price.

2.05 PRESERVATION OF TREES

- A. Those trees which are designated for preservation shall be carefully protected from damage. The Contractor shall erect such barricades, guards, and enclosures as may be considered necessary for the protection of the trees during all construction operations.

2.06 PRESERVATION OF DEVELOPED PRIVATE PROPERTY

- A. The Contractor shall exercise extreme care to avoid unnecessary disturbance of developed private property. Trees, shrubbery, gardens, lawn, and other landscaping, which in the opinion of the Engineer must be removed, shall be replaced and replanted to restore the construction easement to the condition existing prior to construction.
- B. All soil preparation procedures and replanting operations shall be under the supervision of a nurseryman experienced in such operations.
- C. Improvements to the land such as fences, walls, outbuildings, etc., which of necessity must be removed, shall be replaced with equal quality materials and Workmanship.
- D. The Contractor shall clean up the construction site across from developed private property directly after construction is completed upon approval of the Engineer.

2.07 PRESERVATION OF PUBLIC PROPERTY

- A. The appropriate paragraphs of Articles 2.01 and 2.02 of these Specifications shall apply to the preservation and restoration of all damaged areas of public lands, parks, rights-of-way, easements, etc.

END OF SECTION

SECTION 02140

DEWATERING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: The work to be performed under this Section shall include the design and installation of a temporary wellpoint system until completion of construction to dewater subsurface waters from structures as required.
- B. Related Work Described Elsewhere:
 - 1. Shop Drawings, Working Drawings, and Samples: Section 01340.
 - 2. Trenching, Backfilling, and Compaction: Section 02221.

1.02 QUALITY ASSURANCE

- A. Qualifications: The temporary dewatering system shall be designed by a firm who regularly engages in the design of dewatering systems and who is fully experienced, reputable and qualified in the design of such dewatering systems. The firm shall have a successful record of operation for a minimum of five (5) years prior to bid date.
- B. In lieu of experience, the dewatering firm shall provide a performance and warranty bond for 1.5 times the total installed cost of the temporary dewatering system. This bond shall be executed prior to award and/or contract execution.
- C. Standards: The dewatering of any excavation areas and the disposal of water during construction shall be in strict accordance with all local and State government rules and regulations.

1.03 SUBMITTALS

- A. Materials and Shop Drawings: Shop drawings required to establish compliance with the Specifications shall be submitted in accordance with the provisions of Section 01340: Shop Drawings, Working Drawings, and Samples. Submittals shall include at minimum the following:
 - 1. Design notes and drawings.
 - 2. Descriptive literature of the temporary dewatering system.

3. Layout of all piping involved.
4. Bill of materials.

1.04 CRITERIA

- A. The wellpoint system shall be developed to the point that is capable of dewatering such that groundwater levels are maintained at least three (3) feet below the bottom of excavations. Each wellpoint system shall be capable of dewatering and maintaining groundwater levels at the respective structures. Observation wells shall be constructed for the purpose of testing each system.

PART 2 - PRODUCTS

2.01 GENERAL

- A. The equipment specified herein shall be standard dewatering equipment of proven ability as designed and manufactured by firms having experience in the design and production of such equipment. The equipment furnished shall be designed, constructed and installed in accordance with the best practices and methods.
- B. The Contractor shall be required to monitor the performance of the dewatering system during the progress of the work and require such modifications as may be required to assure that the systems will perform satisfactorily. Dewatering systems shall be designed in such a manner as to preserve the undisturbed bearing capacity of the subgrade soils and to preserve the integrity of adjacent structures.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Dewatering: The Contractor shall install a temporary wellpoint dewatering system for the removal of subsurface water encountered during construction of the proposed structures.

3.02 PROTECTION AND SITE CLEAN-UP

- A. At all times during the progress of the Work the Contractor shall use all reasonable precautions to prevent either tampering with the wellpoints or the entrance of foreign material.

- B. After the wellpoint system is no longer needed, the Contractor shall remove all of his equipment, materials, and supplies from the site of the work, remove all surplus materials and debris, fill in all holes or excavations, and grade the site to elevations of the surface levels which existed before work started. The site shall be thoroughly cleaned and approved by the Engineer.

END OF SECTION

SECTION 02221

TRENCHING, BACKFILLING AND COMPACTING

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. Excavation, bedding, backfill and compaction for construction of utilities and utility structures, including but not limited to, piping and appurtenances, vaults, manholes, drainage pipes and structures.
2. Disposal of excavated materials, including salvage of material and removal of excess, or material not suitable for reuse.
3. Maintenance of excavations including sheeting, dewatering, bridging and fencing.
4. Construction of concrete cradles, encasement, bedding and saddles.
5. Excavation and backfill of test pits.
6. Protection of utilities.

B. Related Work Specified Elsewhere:

1. Shop Drawings, Working Drawings, and Samples: Section 01340.
2. Testing and Testing Laboratory Services: Section 01410.
3. Temporary Erosion and Sedimentation Control: Section 01568.
4. Site Preparation: Section 02100.
5. Dewatering: Section 02140.

1.02 QUALITY ASSURANCE

A. Requirements of Regulatory Agencies:

1. Comply with rules, regulations and laws concerning construction activity in roads and rights-of-way of the applicable jurisdiction.

2. Comply with Federal Department of Labor, OSHA Standard, Title 29.
3. Trench Safety Act: The Contractor shall comply with all of the requirements of the Florida Trench Safety Act (Chapter 90-96, CS/CB 2626, Laws of Florida). The Contractor shall acknowledge that included in various items of his bid proposal and in the total bid price are costs for complying with the provisions of the Act.

B. Testing and Testing Laboratory Services:

The requirements for testing and laboratory services, including soils testing, are specified in Section 01410: Testing and Testing Laboratory Services.

C. Reference Standards:

1. Florida Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition (FDOT Specifications).

1.03 SUBMITTALS

A. Materials and Shop Drawings:

1. Prior to start of Work have drawings, details and design analysis prepared by a Professional Engineer licensed to practice in Florida for the following:
 - a. Sheeting and bracing.
 - b. Excavations requiring specially designed sheeting in accordance with safety codes and regulations.
 - c. If dewatering system is required, prepare drawings and calculations for the dewatering system in accordance with Section 02140: Dewatering.
2. Maintain in Contractor's file to comply with OSHA (Occupational Safety and Health Act) requirements and state requirements.

B. Samples:

Before using materials for backfill or bedding, submit samples from each typical source to an approved. soils testing laboratory.

C. Reports:

1. Submit soils testing laboratory reports to Engineer for checking as follows:
 - a. Two (2) copies of the gradation analysis of material from each source used for backfill and bedding.
 - b. Two (2) copies of the gradation analysis and compaction requirements for each typical class of backfill.
 - c. Reports from soils testing laboratory including special manipulation or compaction requirements required to achieve specified density or supportive value for each class of backfill.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Load and haul away excavated material not suitable for other uses at the site. Keep haul routes clean. Use water, calcium chloride, power broom and other methods to keep haul routes clean and free of dust.
- B. Store and stockpile material suitable for backfill within rights-of-way and easements, away from interference with traffic, and nearby residents. Use all stockpiled material as soon as practical. Do not allow material to become contaminated. Do not allow material to erode, wash into excavations, drainage ditches, natural waterways, onto road, or adjacent property.

1.05 WARRANTY AND GUARANTEES

- A. By acceptance of payment for the Work of this Section, Contractor guarantees for one year after Final Completion as follows:
 1. For trenches in unpaved areas surface settlement will not exceed 2 inches.
 2. For trenches in paved and unpaved roadway areas, surface settlement will not occur.
 3. For all trenches, pipe zone bedding will not settle or be displaced causing damage or misalignment of utility.
 4. In case trench settlement occurs in excess of the above limits, Contractor shall repair all surfaces and utilities at no additional cost to Owner.

1.06 JOB CONDITIONS

A. Maintenance of Traffic:

Notify Traffic Engineer of local jurisdiction, Police and Fire Departments two (2) Working days prior to excavation in streets.

B. Sequencing, Scheduling:

1. Notify Engineer two (2) Working days in advance of construction to check layout.
2. Limit open trench to 300 feet in advance of pipe laying, or of pipe installed and backfilled in one (1) Working day.
3. Complete backfilling and temporary facilities not more than 300 feet in rear of pipe laying.
4. Advance excavation operations ahead of pipe laying to allow for circumstances such as rock, muck, other utilities.

1.07 DEFINITIONS

- A. Pipe zone bedding: Backfill placed and compacted including bedding, haunching and initial backfill.
- B. Bedding: Material placed and compacted at the bottom of trench or foundation upon which the pipe rests.
- C. Haunching: Material placed and compacted from the bedding up to the spring line (horizontal centerline) or the pipe, supporting the bottom half of the pipe.
- D. Initial backfill: Material placed and compacted from the spring line of the pipe to 12 inches above top of pipe.
- E. Foundation: Material existing or placed and compacted below bedding.
- F. Final backfill: Material placed and compacted above initial backfill to the surface or bottom of roadway base.
- G. In the Dry: Means +/-2% of the optimum moisture content of the soil in order to achieve a minimum density of 95 percent of the maximum dry density as determined by AASHTO T-180: Standard Method of Test for Moisture - Density Relations of Soils Using a 4.54 Kg (10 lb) Rammer and a 45 mm (18 inch) drop.

1.08 PROTECTION

A. Temporary Sheeting and Bracing:

1. Furnish, put in place, and maintain such sheeting and bracing as may be required to support the sides of excavations, to prevent any movement which could in any way diminish the width of the excavation below that necessary for proper construction, and to protect adjacent structures, power poles, etc. from undermining, and to protect Workers from hazardous conditions of other damage. Such support shall consist of braced steel sheet piling, braced wood lagging and soldier beams or other approved methods. If the Engineer is of the opinion that at any points sufficient or proper supports have not been provided, he may order additional supports put in at the expense of the Contractor, and compliance with such order shall not relieve or release the Contractor from his responsibility for the sufficiency of such supports. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed. Where soil cannot be properly compacted to fill a void, lean concrete shall be used as backfill at no additional expense to the Owner.
2. The Contractor shall construct the sheeting outside the neat lines of the foundation unless indicated otherwise to the extent he deems it desirable for his method operation. Sheeting shall be plumb and securely braced and tied in position. Sheeting and bracing shall be adequate to withstand all pressure to which the structure or trench will be subjected. Any movement or bulging which may occur shall be corrected by the Contractor at his own expense so as to provide the necessary clearances and dimensions.
3. Where sheeting and bracing is required to support the sides of excavations of structures, the Contractor shall engage a Professional Geotechnical Engineer, registered in the State of Florida, to design the sheeting and bracing. The sheeting and bracing installed shall be in conformity with the design, and certification of this shall be provided by the Professional Engineer.
4. The installation of sheeting, particularly by driving or vibrating, may cause distress to existing structures. The Contractor shall evaluate the potential for such distress and, if necessary, take all precautions to prevent distress of existing structures because of sheeting installation.
5. The Contractor shall leave in place to be embedded in the backfill all sheeting and bracing not shown on the Drawings but which the Engineer may direct him in writing to leave in place at any time during the progress of the Work for the purpose of preventing injury to structures, utilities, or

property, whether public or private. The Engineer may direct that timber used for sheeting and bracing be cut off at any specified elevation.

6. All sheeting and bracing not left in place shall be carefully removed in such manner as not to endanger the construction or other structures, utilities, or property. All voids left or caused by withdrawal of sheeting shall be immediately refilled with sand by ramming with tools especially adapted to that purpose, or otherwise as may be directed by the Engineer.
7. The right of the Owner and Engineer to order sheeting and bracing left in place shall not be construed as creating any obligation on his part to issue such orders, and his failure to exercise his right to do so shall not relieve the Contractor from liability for damage to persons or property occurring from or upon the Work occasioned by negligence or otherwise, growing out of a failure on the part of the Contractor to leave in place sufficient sheeting and bracing to prevent any caving or moving of the ground.
8. No wood sheeting is to be withdrawn if driven below mid-diameter of any pipe, and under no circumstances shall any wood sheeting be cut off at a level lower than 1 foot above the top of any pipe.

B. Pumping and Drainage:

1. The Contractor shall at all times during construction provide and maintain proper equipment and facilities to remove all water entering excavations, and shall keep such excavations dry so as to obtain a satisfactory undisturbed subsurface foundation until the fills, structures or pipes to be built thereon have been completed to such extent that they will not be floated or otherwise damaged by allowing water levels to return to natural levels. As stipulated in Section 02140, the Contractor shall engage a Geotechnical Engineer registered in the State of Florida, to design the temporary dewatering systems. The Contractor shall submit to the Engineer for review a conceptual plan for dewatering systems prior to commencing Work. The dewatering system installed shall be in conformity with the overall construction plan, and certification of this shall be provided by a Professional Engineer. The Contractor shall be required to monitor the performance of the dewatering systems during the progress of the Work and require such modifications as may be required to assure that the systems are performing satisfactorily.
2. Dewatering shall at all times be conducted in such a manner as to preserve the undisturbed bearing capacity of the subsurface soils at proposed bottom of excavation and to preserve the integrity of adjacent structures. Well or sump installation shall be constructed with proper sand filters to prevent drawing of finer grained soil from the surrounding ground.

3. Water entering the excavation from surface runoff shall be collected in shallow ditches around the perimeter of the excavation, drained to sumps, and pumped from the excavation to maintain a bottom free from standing water.
4. The Contractor shall take all additional precautions to prevent uplift of any structure during construction.
5. Where required, construct an impervious earth dike at trench bottom to keep free water from traveling downstream along pipe and eroding pipe bedding. Construct dike of clay or other impervious material, one-foot thick and from bottom of trench of top of pipe. Construct at intervals not exceeding 100 feet, and other places ordered by the Engineer.
6. The conveying of water in open ditches or trenches will not be allowed. Permission to use any storm sewers or drains for water disposal purposes shall be obtained from the authority having jurisdiction. Any requirements and costs for such use shall be the responsibility of the Contractor. However, the Contractor shall not cause flooding by overloading or blocking up the flow in the drainage facilities, and he shall leave the facilities unrestricted and as clean as originally found. Any damage to facilities shall be repaired or restored as directed by the Engineer or the authority having jurisdiction, at no cost to the Owner.
7. Flotation shall be prevented by the Contractor by maintaining a positive and continuous operation of the dewatering system. The Contractor shall be fully responsible and liable for all damages which may result from failure of this system.
8. Removal of dewatering equipment shall be accomplished after the system is no longer required; the material and equipment constituting the system shall be removed by the Contractor.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. Backfill Materials

1. Clean, granular material composed of sand, rock or gravel obtained from the excavation or, if necessary, from a borrow area.

2. Common Fill:
 - a. Containing no more than 12 percent by weight passing a 200 mesh sieve.
 - b. Containing no more than 1 percent by weight of organic matter.
 - c. Maximum particle size: 6 inches.
3. Select Common Fill:
 - a. Containing no more than 5 percent by weight passing a 200 mesh sieve.
 - b. Containing no more than 1 percent by weight of organic matter.
 - c. Maximum particle size: 1 1/2 inches.
4. Bedding Rock: Material meeting the requirements of FDOT Specification 901-, size number 67 - Coarse Aggregate with the following gradation:

<u>Percent Passing</u>	<u>Size Square Openings</u>
100	1"
90-100	3/4"
20-55	3/8"
0-10	No. 4
0-5	No. 8

5. Backfill material shall be substantially free of clay, organic materials, loam, wood, trash and other objectionable material which may be compressible or which cannot be compacted properly and shall not contain broken concrete, masonry, rubble, or other similar materials. it shall have physical properties such that it can be readily spread and compacted during filling.
6. Material falling within the above specifications, encountered during the excavation may be stored in segregated stockpiles for reuse. All material which, in the opinion of the Engineer, is not suitable for reuse, shall be spoiled as specified herein for disposal of unsuitable materials.

B. Water for Compaction:

1. pH of 7.0 to 9.0.

2. Free of acid, alkali or organics injurious to pipe or coatings.
 3. Meeting FDOT Specification 983, "Water for Grassing".
- C. Cement Concrete:
1. Transit-mixed, 28-day compressive strength: 3,000 psi.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Notification - Before commencing excavation in any part of the job, notify the following:
1. The Engineer.
 2. Adjacent and affected property occupants.
 3. The Fire Department.
 4. The Police Department.
 5. All public and private utilities whose facilities are in the vicinity of the excavation, including gas and oil pipeline companies, in accordance with Laws of Florida 77-153.
- B. Utility Protection and Changes - Where public or private utilities are encountered:
1. Maintain, support, and save all public utilities from damage.
 2. Allow reasonable time and space for owners of private utilities to cooperate in maintaining their facilities.
 3. Excavate test pits:
 - a. A minimum of two (2) Working days in advance of construction to determine precise location of obstructions and existing utilities which may affect alignment of the Work.
 - b. Size: 3 feet square to the depth required, unless larger pit is required to adequately investigate utility locations.
 - c. Prior to excavation, notify the Engineer and affected utility owners.

- d. Test pits shall include excavation, temporary sheeting, dewatering, backfilling, compaction and pavement replacement.

3.02 INSTALLATION

A. Excavation:

1. General:

- a. Excavation consists of removal, storage and disposal of material encountered when establishing required grade elevations and in accordance with the notes shown in the Drawings.
- b. Authorized earth excavation includes removal and disposal of pavements and other obstructions visible on ground surface, underground structures and utilities indicated to be demolished and removed, and other materials encountered that are not classified as rock excavation or unauthorized excavation.
- c. Unauthorized excavation consists of removal of material beyond the limits needed to establish required grade and subgrade elevations without specific direction of the Engineer. Unauthorized excavation, as well as remedial Work shall be at the Contractor's expense.
 - (1) Under footings, foundation bases or retaining walls, fill unauthorized excavation by extending the indicated bottom elevation of the footing or base to the excavation bottom, without altering required top elevation. Lean concrete fill may be used to bring bottom elevations to proper position, when acceptable to the Engineer.
 - (2) Elsewhere, backfill and compact unauthorized excavations as specified for authorized excavations of same classification, unless otherwise specified or directed by the Engineer.
- d. When excavation has reached required subgrade elevations, make an inspection of conditions. If the material is unsuitable which has clay and/or organic material, and if authorized by Engineer to remove, carry excavation deeper and replace excavated material with bedding rock, in accordance with Type A Bedding and Trench Detail as shown in the Drawings. If a layer of shell is encountered at the bedding elevation, then over-excavate the shell to maximum

of 6" below the bedding elevation. Replace the excavated shell with bedding rock.

- e. If the Contractor excavates below grade through error or for his own convenience or through failure to properly dewater the excavation or disturbs the subgrade before dewatering is sufficiently complete, he may be directed by the Engineer to excavate below grade as set forth in the preceding paragraph, in which case the Work of excavating below grade and finishing and placing the refill shall be performed at his own expense.
- f. Slope sides of excavations shall comply with state and local codes and ordinances having jurisdiction or as shown on the Drawings. Shore and brace where sloping is not possible due to space restrictions or stability of the material excavated. Sides and slopes shall be maintained in a safe condition until completion of backfilling.
- g. Stockpile satisfactory excavated materials at a location approved by the Engineer until required for backfill or fill. Stockpiles shall be placed and graded for proper drainage. All soil materials shall be located away from the edge of excavations. Excess soil materials shall be disposed of as herein specified.

2. Excavation for Structures:

- a. All such excavations shall conform to the elevations and dimensions within a tolerance of plus or minus 0.10 feet and extending a sufficient distance from footings and foundations to permit placing and removing form Work, installation of services and other construction, inspection or as shown on the Drawings. In excavating for footings and foundations, care shall be exercised to not disturb the bottom of the excavation. Excavation to final grade shall be by hand just before concrete reinforcement is placed. Bottoms shall be trimmed to required lines and grades to leave a solid base.

3. Trench Excavation:

- a. Excavation for all trenches required for the installation of pipes shall be made to the depths indicated on the Drawings and in such a manner and to such widths as will give suitable room for laying the pipe within the trenches, for bracing and supporting and for pumping and drainage facilities. The bottom of the excavations shall be firm and dry.

- b. Excavation shall not exceed normal trench width. Normal trench width is defined as indicated on the Drawings. Any excavation which exceeds the normal trench width shall require special backfill requirements as determined by the Engineer.
- c. Rock shall be removed to a minimum 8 inches clearance around the bottom and sides of the pipe being laid.
- d. Where pipe is to be laid in gravel bedding or encased in concrete, the trench may be excavated to or just below the designated subgrade provided that the material remaining in the bottom of the trench is no more than slightly disturbed.
- e. Where the pipes are to be laid directly on the trench bottom, the lower part of the trenches shall not be excavated to grade by machinery. Manually trim and shape trench bottom to receive pipe at correct line and grade. Shape trench to provide a uniform, continuous support along the entire length of the barrel of each pipe section. Hand-shape firm unyielding bedding so that the bottom segment will be in continuous contact with the pipe barrel.
- f. Slope sides of excavations to comply with local codes and ordinances having jurisdiction or as shown on the Drawings. Shore and brace where sloping is not possible due to space restrictions or stability of the material excavated. Sides and slopes shall be maintained in a safe condition until completion of backfilling.

B. Backfill

1. General:

- a. Material placed in fill areas under and around structures and pipelines shall be deposited within the lines and to the grades shown on the Drawings making due allowance for settlement of the material. Fill shall be placed only on properly prepared surfaces which have been inspected and approved. If sufficient common fill material is not available from excavation on site, the Contractor shall provide borrow as required.
- b. Fill shall be brought up in substantially level lifts starting in the deepest portion of the fill. The entire surface of the Work shall be maintained free from ruts and in such condition that construction equipment can readily travel over any section. Fill shall not be

placed against concrete structures until they have attained sufficient strength.

- c. Fill shall be dumped and spread in layers by a backhoe or other approved method unless otherwise specified. During the process of dumping and spreading, all roots, debris and stones greater in size than specified herein shall be removed from the fill areas and the Contractor shall assign a sufficient number of men to this Work to insure satisfactory compliance with these requirements.
- d. If the compacted surface of any layer of material is determined to be too smooth to bond properly with the succeeding layer, it shall be loosened by harrowing or by another approved method before the succeeding layer is placed.
- e. All fill materials shall be placed and compacted "in the-dry". The Contractor shall dewater excavated areas as required to perform the Work and in such manner as to preserve the undisturbed state of the natural soils.
- f. Prior to filling, the ground surface shall be prepared by removing vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials. Plow strip or break up sloped surfaces steeper than one vertical to four horizontal so that fill material will bond with the existing surface. When existing ground surface has a density less than that specified herein, break up the ground surface, pulverize, moisture condition to the optimum moisture content and compact to required depth and percentage of maximum density.
- g. Before compaction, moisten or aerate each layer as necessary to provide the optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density for each classification.

2. Bedding and Backfilling Structures:

- a. Bedding rock shall be used for bedding under all structures as indicated on the Drawings. The Contractor shall take all precautions necessary to maintain the bedding in a compacted state and to prevent washing, erosion or loosening of this bed.
- b. Select common fill is specified for use as backfill against the exterior walls of structures. Fill shall be placed in layers having a

maximum thickness of 8 inches in loose state and shall be compacted sufficiently as specified herein.

- c. Backfilling shall be carried up evenly on all walls of the structure. No backfill shall be allowed against walls until the walls and their supporting slabs, if applicable, have attained sufficient strength.
- d. In locations where pipes pass through walls, the Contractor shall take precautions to consolidate the refill up to an elevation of at least one (1) foot above the bottom of the pipes by placing select common fill in such areas for a distance of not less than 3 feet either side of the center line of the pipe in level layers not exceeding 8 inches in depth.
- e. The surface of filled areas shall be graded to smooth true lines, strictly conforming to grades indicated on the Drawings. No soft spots or uncompacted areas will be allowed in the Work.
- f. Temporary bracing shall be provided as required during construction of all structures to protect partially completed structures against all construction loads, hydraulic pressure and earth pressure. The bracing shall be capable of resisting all loads applied to the walls as a results of backfilling.

3. Bedding and Backfilling for Pipes:

- a. Bedding for pipe shall be as shown on the Drawings. The Contractor shall take all precautions necessary to maintain the bedding in a compacted state and to prevent washing, erosion or loosening of this bed.
- b. Backfilling over and around pipes shall begin as soon as practicable after the pipe has been laid, jointed and inspected and the trench filled with suitable material to the mid-diameter of the pipe. All backfilling shall be prosecuted expeditiously and as detailed on the Drawings.
- c. After the pipe is laid to line and grade, place and carefully compact pipe bedding material for the full width of the trench to the springline of the pipe. Place the material around the pipe in 6-inch layers and thoroughly hand tamp with approved tamping sticks supplemented by "walking in" and slicing with a shovel to assure that all voids are filled. Backfill and carefully compact the area above the pipe springline with pipe cover material to a point 12-inches above the top outside surface of the pipe barrel. Pipe

bedding material may, at the Contractor's option, be substituted for pipe cover material. The filling shall be carried up evenly on both sides with at least one man tamping for each man shoveling material into the trench.

- d. The remainder of the trench above the compacted backfill shall be filled an thoroughly compacted in one-foot uniform layers.

C. Compaction

1. General:

- a. The Contractor shall control soil compaction during construction to provide the minimum percentage of density specified. It shall be the Contractor's responsibility to notify the Engineer in writing that penetration tests can be performed. Written notice from the Contractor shall precede completion of compaction operations by at least two (2) Working days.
- b. It is the intention that the fill materials with respect to moisture be used in the condition it is excavated insofar as this is practical. Material which is too wet shall be spread on the fill area and permitted to dry, assisted by harrowing if necessary, until the moisture content is reduced to allowable limits. If added moisture is required, water shall be applied by sprinkler tanks or other water over the area to be treated and give complete and accurate control of the amount of water to be used. If too much water is added, the area shall be permitted to dry before compaction is continued. The Contractor shall supply all hose, piping, valves, sprinklers, pumps, sprinkler tanks, hauling equipment and other materials and equipment necessary to place water in the fill in the manner specified.
- c. When existing trench or excavation bottom has a density less than that specified herein for the particular area classification, the Contractor shall break up the ground surface, pulverize, moisture-condition to the optimum moisture content and compact to required depth and percentage of maximum density.

2. Percentage of Maximum Density Requirements:

- a. Fill or undisturbed soil from the bottom of the pipe trench to 1 foot above the pipe shall be densified to a minimum density of 95 percent of the maximum dry density as determined by AASHTO T-180: Standard Method of Test for Moisture-Density Relations of

Soils using a 454 Kg (10 lb) Rammer and a 457 mm (18 inch) Drop.

- b. Backfill from 1 foot above utility pipes to grade shall be densified to a minimum density of 95 percent of the maximum dry density as determined by AASHTO T-180: Standard Method of Test for Moisture-Density Relations of Soils using a 454 Kg (10 lb) Rammer and a 457 mm (18 inch) Drop.
- c. Fill under and around structures, to the extent of the excavation, shall be densified to a minimum density of 95 percent of the maximum dry density as determined by AASHTO T-180: Standard Method of Test for Moisture-Density Relations of Soils using a 454 Kg (10 lb) Rammer and a 457 mm (18 inch) Drop.
- d. All fill and backfill for pipelines and structures under roadways or within 6 feet of edge of pavement shall be densified to a minimum density of 98 percent of the maximum dry density as determined by AASHTO T-180: Standard Method of Test for Moisture-Density Relations of Soils using a 454 Kg (10 lb) Rammer and a 457 mm (18 inch) Drop.

D. Grading

- 1. All areas within the limits of construction, including transition areas shall be uniformly graded to produce a smooth uniform surface. Areas adjacent to structures or paved surfaces shall be as graded to drain away from structures and pavement. Ponding shall be prevented.
- 2. After grading, the area shall be compacted to the specified depth and percentage of maximum density.
- 3. No grading is to be done in areas where there are existing pipelines that may be uncovered or damaged until such liens which must be maintained are relocated; or where lines are to be abandoned, all required valves are closed and drains plugged.

3.03 INSPECTION AND TESTING

- A. Prior to all Work, carefully inspect the site and verify that construction may properly commence:
 - 1. Verify layout, horizontal and vertical, and conformance of layout with Drawings.

2. Verify limits of construction.
 3. Check surface drainage ditches and driveway culverts. Record alignments both vertical and horizontal. Also, inspect culvert piping and immediately report to the Engineer any condition which would prevent their removal and reinstallation.
 4. Verify utility locations, including but not limited to aerial, pole lines, buried, underground, transmission, local service and individual connection a minimum of two (2) Working days in advance of the Work.
 5. Record location, size and description of property to be removed and replaced including, but not limited to curbs, driveways, pavements, mail boxes, meters and boxes, fences, trees, plantings and lawn furnishings.
 6. Accurately survey and record the location of property pins, bench marks, USGS (United States Geological Survey) Monuments, right-of-way markers, within the limits of construction which may be moved by the Contractor's operations.
- B. After excavation, verify that utilities to be placed in trenches may be installed in accordance with the Drawings and Specifications.
- C. Before backfilling, verify that:
1. Utilities have been installed in accordance with Drawings and Specifications.
 2. Other utilities are adequately continued, supported and maintained without damage.
- D. In the event of discrepancy or unsatisfactory conditions, immediately notify the Engineer.
- E. Do not make alignment changes without authorization of Engineer.

3.04 MAINTENANCE

- A. Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris. Repair and reestablish grades in settled, eroded and rutted areas to specified tolerances.
- B. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather; scarify surface, reshape and compact to required density prior to further construction.

3.05 DISPOSAL OF SURPLUS AND WASTE MATERIAL

- A. All surplus and/or unsuitable excavated material shall be transported from Owner's property and legally disposed of. Any permit required for the hauling and disposing of this material beyond Owner's property shall be obtained prior to commencing hauling operations.
- B. All costs associated with the disposal of surplus and waste material shall be included in the Contractor's Bid Price. No additional compensation shall be allowed.

3.06 RESTORATION

- A. Restoration of Surfaces - After backfilling, restore surface and facilities to a condition as good or better than before start of Work.
 - 1. At crossings of paved surfaces disturbed by excavations, place temporary bituminous patch over the base immediately after backfilling is completed.
 - 2. Refer to Sections 02934 –Solid Sodding for restoration in unpaved areas.
- B. Restoration of Other Improvements:
 - 1. Replace drainage culverts, pipes, end sections, and head walls, removed for excavation to their original position. Provide bedding and backfill suitable for each installation. Shape, trim and compact surface to receive pavement or surface treatment of similar or like kind and quality as that which was removed and as shown on the Drawings.
 - 2. Shape, trim and compact ditches, water courses, and swales to original cross-section and profile unless otherwise specified herein or shown on the Drawings. Place sod and maintain until vegetation has been reestablished. Where water velocities produce scouring or erosion in ditches, provide stabilization as directed by the Engineer.

3.07 MAINTENANCE OF ROADWAYS AND SIDEWALKS

- A. Conduct construction operations so as to leave open and free passage at sidewalks, crosswalks, and carriageways.
- B. Maintain hydrants, fire-police alarm boxes, and mail boxes accessible for use.
- C. Provide temporary bridge(s) of adequate design and construction where open trench crosses walkways, roadways, or driveways.

1. Provide hand railing for bridges used for walks.
2. Maintain temporary bridges in a safe, neat condition, suitably illuminated at night.

D. Temporary Wire Fence:

1. Where trenches and open excavations are left unattended during non-working hours or days, furnish and maintain temporary fences.
2. Provisions for fencing constitute a minimum, and may be in addition to provisions the Contractor would normally make to safeguard his Work operations.
3. Construction:
 - a. Construct temporary fence to completely surround excavations.
 - b. Mount "DANGER-KEEP OUT" signs at intervals not exceeding 50 feet along fence line, minimum 2 signs.
 - c. Provide posts or adequate supports for fencing at intervals not in excess of 10 feet. Stretch wire fabric and fasten at top, middle and bottom of each support.
4. Provide sufficient quantity of planks, timbers, fastenings and supplies on hand at excavation site to meet requirements of construction and for immediate use in case of emergency.

3.08 FIELD QUALITY CONTROL

- A. Quality Control Testing During Construction: Allow testing service to inspect and approve subgrades and fill layers.
- B. If, in the 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.

END OF SECTION

SECTION 02574

PAVEMENT REMOVAL AND REPLACEMENT

PART I - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: Work included under this Section consists of cutting, removing, protecting and replacing existing pavements, driveways, sidewalks, curb and combination curb and gutter of the various types encountered that is not otherwise included in the roadway/drainage work.
- B. Protection of Existing Improvements: The Contractor shall be responsible for the protection of all pavements, sidewalks and other improvements within the work area. All damage to such improvements, as a result of the Contractor's operations, beyond the limits of the work of pavement replacement as described herein, shall be repaired by the Contractor at his expense.
- C. Related Work Described Elsewhere:
 - 1. Trenching, Backfilling and Compacting: Section 02221.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Materials, including stabilized subgrade, base, bituminous prime and tack coat, and asphaltic concrete for the above work shall meet the requirements established herein.
 - 1. Stabilized subgrade shall conform to Section 160 of the Florida Department of Transportation (FDOT) Standard Specification of Road and Bridge Construction (latest edition).
 - 2. Base material shall be limerock conforming to Section 200 of the FDOT Standard Specification of Road and Bridge Construction (latest edition).
 - 3. Bituminous prime and tack coat materials shall conform to Section 300 of the FDOT Standard Specification of Road and Bridge Construction (latest edition).

4. Asphalt concrete shall be SuperPave 9.5 or to match existing and conform to Section 334 of the FDOT Standard Specification of Road and Bridge Construction (latest edition).
5. Portland cement concrete shall conform to Section 350 of the FDOT Standard Specification of Road and Bridge Construction (latest edition).

PART 3 - EXECUTION

3.01 PERFORMANCE

A. Removals:

1. Pavement Removal:
 - a. Where existing pavement is to be removed, the surfacing shall be mechanical saw cut prior to trench excavation, leaving a uniform and straight edge, with minimum disturbance to the remaining adjacent surfacing. The width of cut for this phase of existing pavement removal shall be minimized.
 - b. Immediately following the specified backfilling and compaction, a temporary sand seal coat surface or temporary asphalt surface shall be applied to the cut areas. This temporary surfacing shall provide a smooth traffic surface with the existing roadway and shall be maintained until final restoration. Said surfacing shall remain for 10 days in order to assure the stability of the backfill under normal traffic conditions. Following this period and prior to 15 days after application, the temporary surfacing shall be removed and final roadway surface restoration accomplished.
 - c. In advance of final restoration, the temporary surfacing shall be removed and the existing pavement mechanically sawed straight and clean to the dimensions specified in the drawings. Following the above operation, the Contractor shall proceed immediately with final pavement restoration in accordance with these requirements.
2. Sidewalk, Drive & Curb Removal: Concrete sidewalks, curbs, combination curb and gutter, walks, drive ribbons, or driveways shall be removed by initially sawing the structure, with a suitable power saw, as specified above for pavement. The removal line shall be extended to the next joint, each way. After sawing, the material shall be removed. Temporary paths of travel shall be provided to maintain pedestrian traffic.

Particular attention should be given to providing accessible routes to the disabled.

B. Restorations:

1. General: Street or roadway pavement cut and removed in connection with trench excavation shall be replaced or restored in equal or better condition than the original and as shown on the Drawings. Street or roadway pavement restoration shall begin immediately upon completion of backfill and compaction or curing of flowable backfill. The Drawings indicate minimum requirements.
2. Asphalt Pavement Restoration: Restoration of existing pavement shall be in accordance with the provisions of Section 334 of the FDOT Standard Specifications for Road and Bridge Construction (latest edition). Asphaltic concrete shall be SuperPave 9.5 or match existing, a minimum of 1-1/2 inches thick.
3. Asphalt Driveway Restoration: Driveway pavement with base cut and removed in connection with trench excavation shall be replaced or restored as specified above for street or roadway pavement, except the new base course shall equal the existing base course in thickness, except that in no case shall new driveway base course be less than 8 inches in thickness and the asphaltic concrete shall be SuperPave 9.5, 3 inches thick. Muck or unsuitable material found under existing driveway construction will not be removed and replaced.
4. Concrete, Sidewalk, Walkway, Driveway Ribbon and Curb Restoration:
 - a. Concrete sidewalks, walkways, driveways, driveway ribbons and curbs required to be removed for the installation of facilities under this Contract shall be restored. Class B concrete shall be used in all cases.
 - b. Replaced portions of these items shall conform to the lines, grades, and cross sections of the removed portions. Concrete sidewalks and walkways subject to vehicular traffic shall be of 6-inch thickness; concrete sidewalks and walkways not subject to vehicular traffic shall be of 4-inch thickness; concrete driveways and driveway ribbons shall be 6-inch thickness. Replaced concrete curb and/or gutter shall extend the next control joint, each way.

5. Concrete Pavement Restoration: Rigid pavement shall be replaced in kind with Class B concrete, using high early strength cement. The base course for rigid pavement shall be replaced in kind and compacted to a thickness to match the existing base.
6. Asphaltic Concrete Surface course Overlay:
 - a. The work under this section includes asphaltic concrete surface course overlay paving as and where directed by the Engineer. Where this paving is directed it shall take the place of asphaltic concrete pavement restoration as specified herein above. This surface course overlay shall extend over the reconstructed base course and the existing pavement to the limits directed by the Engineer, which generally shall be the full width of the roadway.
 - b. After the base course construction in the trench area has been completed and primed, the asphalt pavement surface shall be tack coated and a 1½-inch compacted thickness of SuperPave 9.5 asphaltic concrete shall be constructed in accordance with the requirements specified above for pavement restoration.

END OF SECTION

SECTION 02934

SOLID SODDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: The Work specified in this Section consists of establishing a stand of grass, within the areas indicated on the Drawings, by furnishing and placing grass sod. Also included are fertilizing, watering and maintenance as required to assure a healthy stand of grass. Solid sodding shall be placed on all slopes greater than 4:1 or as indicated in the construction plans, within 10 feet of all proposed structures, where existing sod is removed or disturbed by Contractor's Operation, and where specified by County or City permits.

1.02 SUBMITTALS

- A. A certification of sod quality by the producer shall be delivered to the Engineer ten (10) days prior to use.

PART 2 - PRODUCTS

2.01 GRASS SOD

- A. Grass sod shall, in most cases, be Bahia grass. However, in locations with St. Augustine and the like, Contractor shall replace like sod. Sod shall be well matted with grass roots. The sod shall be taken in rectangles, preferably 12 inch by 24 inch, shall be a minimum 2 inches in thickness and shall be live, fresh and uninjured at the time of planting.
- B. It shall be reasonably free of weeds and other grasses and shall have a soil mat of sufficient thickness adhering firmly to the roots to withstand all necessary handling. The sod shall be planted as soon as possible after being dug and shall be shaded and kept moist until it is planted.

2.02 FERTILIZER

- A. Commercial fertilizer shall comply with the state fertilizer laws.
- B. The numerical designations for fertilizer indicate the minimum percentages (respectively) of (1) total nitrogen, (2) available phosphoric acid and (3) water-soluble potash contained in the fertilizer.

- C. The chemical designation of the fertilizer shall be as recommended by a soil testing laboratory and the County Agricultural Extension Agent. The application shall meet all current recommended BMPs for fertilizer application as outlined by the County Agricultural Extension Agent.

2.03 WATER FOR GRASSING

- A. The water used in the sodding operations shall be the responsibility of the Contractor.

PART 3 - EXECUTION

3.01 PREPARATION OF GROUND

- A. The area over which the sod is to be placed shall be scarified or loosened to a depth and then raked smooth and free from debris. Where the soil is sufficiently loose and clean, the Engineer, at his discretion, may authorize the elimination of ground preparation.

3.02 APPLICATION OF FERTILIZER

- A. Before applying fertilizer, the soil pH shall be brought to a range of 6.0 to 7.0.
- B. The fertilizer shall be spread uniformly over the area to be sodded at the rate of 700 pounds per acre, or 16 pounds per 1,000 square feet, by a spreading device capable of uniformly distributing the material at the specified rate. Immediately after spreading, the fertilizer shall be mixed with the soil to a depth of approximately 4 inches.
- C. On steep slopes, where the use of a machine for spreading or mixing is not practicable, the fertilizer shall be spread by hand and raked in and thoroughly mixed with the soil to a depth of approximately 2 inches.

3.03 PLACING SOD

- A. The sod shall be placed on the prepared surface, with edges in close contact and shall be firmly and smoothly embedded by light tamping with appropriate tools.
- B. Where sodding is used in drainage ditches, or on slopes of 4:1 or greater, the setting of the pieces shall be staggered so as to avoid a continuous seam along the line of flow. Along the edges of such staggered areas, the offsets of individual strips shall not exceed 6 inches. In order to prevent erosion caused by vertical

edges at the outer limits, the outer pieces of sod shall be tamped so as to produce a featheredge effect.

- C. On slopes greater than 2 to 1, the Contractor shall, if necessary, prevent the sod from sliding by means of wooden pegs driven through the sod blocks into firm earth, at suitable intervals.
- D. Sod which has been cut for more than 72 hours shall not be used unless specifically authorized by the Engineer after his inspection thereof. Sod which is not planted within 24 hours after cutting shall be stacked in an approved manner and maintained and properly moistened. Any pieces of sod which, after placing, show an appearance of extreme dryness shall be removed and replaced by fresh, uninjured pieces.
- E. Sodding shall not be performed when weather and soil conditions are, in the Engineer's opinion, unsuitable for proper results.

3.04 WATERING

- A. The areas on which the sod is to be placed shall contain sufficient moisture for optimum results. After being placed, the sod shall be kept in a moist condition to the full depth of the rooting zone for at least 2 weeks. Thereafter, the Contractor shall apply water as needed until the sod roots and starts to grow for a minimum of 60 days (or until final acceptance, whichever is latest).

3.05 MAINTENANCE

- A. The Contractor shall, at his expense, maintain the sodded areas in a satisfactory condition until final acceptance of the Project. Such maintenance shall include repairing of any damaged areas and replacing areas in which the establishment of the grass stand does not appear to be developing satisfactorily.
- B. Replanting or repair necessary due to the Contractor's negligence, carelessness or failure to provide routine maintenance shall be at the Contractor's expense.

END OF SECTION

SECTION 03600

GROUTING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: The scope of work involves the grouting of the space left void in the abandonment of the existing pipelines and structures. The work consists of furnishing all labor, equipment and materials and performing all work connected with the placement of the cementaceous grout to fill the void.

1.02 QUALITY ASSURANCE

- A. Grouting shall be performed by a crew under the direct supervision of a superintendent that has experience in grouting of this nature.
- B. Storage, mixing, handling and placement shall be in accordance with manufacturers instructions and specifications.

1.03 SUBMITTALS

- A. Shop Drawings: Shop drawings shall be submitted in accordance with Division 1. In addition, the following shall be submitted to the Engineer for acceptance prior to construction.
 - 1. A detailed description of equipment and operational procedures to accomplish the grouting operation, including grout mixture design, grout mixer type, grout samples, and test data.
 - 2. A detailed description of the grouting time schedule.

PART 2 - PRODUCTS

2.01 GROUT MATERIAL

- A. The grout shall be a "flowable fill" consisting of a mixture of Type 1 Portland Cement, Type "F" Flyash (ASTM 618), sand and water.
- B. The mixture shall contain a minimum of 50 pounds cement and minimum of 400 pounds flyash per cubic yard of grout.

2.02 EQUIPMENT

- A. All grout shall be mixed with a high shear, high energy colloidal type mixer to achieve the best uniform density.
- B. The grout shall be pumped with a non-pulsating centrifugal or tri-plex pump.
- C. The mixer shall be capable of continuous mixing. Batch mixing shall not be permitted.

PART 3 - EXECUTION

3.01 GROUTING

- A. Grouting of the annular space due to the abandonment of the existing sewer pipe will be allowed in continuous individually bulkheaded segments of up to 300 linear feet.
- B. Grout shall be placed in a maximum of three stages, with the initial stage volume equal to or greater than 50% of the total volume for that section of pipe being grouted. The maximum time wait between grouting stages shall be 24 hours.
- C. For each stage, mix and pump the material in one continuous process so as to avoid partial setting of some grout material during that stage, thus, eliminating voids and possible subsequent surface damage due to "cave-ins".
- D. Each section shall be grouted by injecting grout from the lowest point and allowing it to flow toward the highest point to displace water from the annulus and assure complete void-free coverage. Grout shall be placed through tubes installed in the bulkheads at the insertion pits or manholes. Grout tubes shall be at least 2-inch nominal diameter.
- E. After the ends of each section of pipe are exposed, the entire space, not to exceed 300 linear feet end to end, shall be sealed by controlled pumping of grout until it flows from the pipe at the opposite end of the grouting. **Grouting shall be carried out until the entire space is filled.**
- F. Grout pressure in the void space is not to exceed five (5) psi above maximum hydrostatic groundwater level. An open ended, highpoint tap or equivalent vent must be provided and monitored at the bulkhead opposite to the bulkhead through which grout is injected. This bulkhead will be blocked closed as grout escapes to allow the pressuring of the annular space.

3.02 FIELD QUALITY CONTROL

- A. The quality of the grout, application of the equipment and installation techniques are the responsibility of the Contractor. The review and acceptance or approval of specific mix design, equipment or installation procedures shall in no way relieve the Contractor of his obligation to provide the final product as specified herein.

END OF SECTION

SECTION 09900

PAINTING

PART I - GENERAL

1.01 DESCRIPTION OF WORK

- A. The Contractor shall furnish all materials, labor, equipment, and incidentals required to provide a protective coating system for the surfaces listed herein and not otherwise excluded. All surfaces described, whether new or existing, shall be included within the scope of this Section.
- B. The work includes painting and finishing of interior and exterior exposed items and surfaces such as ceilings, walls, floors, miscellaneous metal, doors, frames, construction signs, posts, pipes, fittings, valves, equipment, and all other work obviously required to be painted unless otherwise specified herein or on the Drawings. The omission of minor items in the schedule of work shall not relieve the Contractor of his obligation to include such items where they come within the general intent of the Specifications as stated herein.
- C. "Paint" as used herein means all coating systems, materials, including primers, emulsions, enamels, epoxies, sealers and fillers, and other applied materials whether used as a prime, intermediate or finish coats.
- D. The following items will not be painted unless otherwise noted:
 - 1. Any code-requiring labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name or nomenclature plates.
 - 2. Any moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sensing devices, motor and fan shafts, unless otherwise indicated.
 - 3. Stainless steel angles, tube, pipe, etc.
 - 4. Products with polished chrome, aluminum, nickel or stainless steel finish.
 - 5. Stainless steel, brass, bronze, chromium plate, anodized aluminum, and aluminum other than exposed utility tubing.
 - 6. Flexible couplings, lubricated bearing surfaces, insulation and plastic pipe or duct interiors.

7. Signs and nameplates.
8. Finish hardware.
9. Packing glands and other adjustable parts, unless otherwise indicated.
10. Portions of metal, other than aluminum, embedded in concrete. This does not apply to the back face of items mounted to concrete or masonry surfaces which shall be painted before erection. Aluminum to be embedded in, or in contact with, concrete shall be coated to prevent electrolysis.

1.02 QUALITY ASSURANCE

- A. Provide the best quality grade of the various types of coatings as regularly manufactured by approved paint materials manufacturers. Materials not displaying the manufacturer's identification as a standard, best-grade product will not be acceptable.
- B. Provide undercoat paint produced by the same manufacturer as the finish coats. Undercoat and finish coat paints shall be compatible. Use only thinners approved by the paint manufacturer, and use only within recommended limits.
- C. Painting shall be accomplished by experienced painters specializing in industrial painting familiar with all aspects of surface preparations and applications required for this project. Work shall be done in a safe and workmanlike manner.
- D. Standards:
 1. ASTM.
 2. OSHA.
 3. NFPA.
 4. SSPC.
 5. NACE.
 6. NSF.
 7. AWWA.

- E. Acceptable Manufacturers:
 - 1. Tnemec Company, Inc.
 - 2. Carboline Company.
 - 3. Keeler & Long, Inc.
 - 4. Porter International.
 - 5. Or approved equal.

1.03 SUBMITTALS

- A. Materials and Shop Drawings: Submit to the Engineer as provided in the General Conditions and Section 01340: Shop Drawings, Working Drawings and Samples, shop drawings, manufacturer's specifications and data on the proposed paint systems and detailed surface preparation, application procedures and dry film thickness (DFT).
- B. Schedule:
 - 1. The Contractor shall submit for approval a complete typewritten Schedule of Painting Operations within 90 days after the Notice to Proceed.
 - 2. It is the intent of this Section that as much as possible all structures, equipment and piping utilize coating systems specified herein supplied by a single manufacturer. All exceptions must be noted on the Schedule. For each coating system, only one (1) manufacturer's product shall be used.
- C. Color Samples: Manufacturer's standard color charts for color selection by Owner.
- D. The Contractor shall submit to the Owner, immediately upon completion of the job, certification from the manufacturer indicating that the quantity of each coating purchased was sufficient to coat all surfaces, in accordance with the requirements of this section. Such certification shall make reference to square footage figures provided to the manufacturer by the Contractor.

1.04 DELIVERY, HANDLING AND STORAGE

- A. Deliver all materials to the job site in original, unopened packages and containers bearing manufacturer's name and label in accordance with Section 01600: Materials and Equipment.

1. Provide labels on each container with the following information:
 - a. Name or title of material.
 - b. Fed. Spec. number if applicable.
 - c. Manufacturer's stock number and color.
 - d. Manufacturer's name.
 - e. Generic type.
 - f. Contents by volume, for major pigment and vehicle constituents.
 - g. Application instructions: thinning, ambient conditions, etc.
 - h. Color name and number.
 2. Containers shall be clearly marked to indicate any hazards connected with the use of the paint and steps which should be taken to prevent injury to those handling the product.
- B. All containers shall be handled and stored in such a manner as to prevent damage or loss of labels or containers.
- C. The Owner shall designate areas for storage and mixing of all painting materials. Store only acceptable product materials on project site. Restrict storage to paint materials and related equipment. Storage of paint materials and related equipment shall comply with the requirements or pertinent codes and fire regulations. In addition, all safety precautions noted on the manufacturer's Material Safety Data Sheets and other literature shall be strictly followed. Proper containers outside of buildings shall be provided by the Contractor and used for painting wastes. No plumbing fixtures shall be used for this purpose.
- D. Used rags shall be removed from the buildings every night and every precaution taken against spontaneous combustion.

1.05 WARRANTY AND GUARANTEES

- A. All paint and coatings work performed under these specifications shall be guaranteed by the coatings applicator for 100 percent of the total coated area for both materials and labor against failures during the warranty period.
- B. Failure under this warranty shall include flaking, peeling, or delaminating of the coating due to aging, chemical attack, or poor workmanship; but it shall not

include areas which have been damaged by unusual chemical, thermal, or mechanical abuse.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All paint shall be manufactured by one of the suppliers listed in Paragraph 1.03E., herein, and shall be their highest grade of paint.
- B. The following coating systems list a product by name to establish a standard of quality; other products of the same generic types may be submitted to the Engineer for approval as described in Paragraph 1.04., herein. When other than the specified coating system is proposed, the Contractor shall submit on a typewritten list giving the proposed coatings, brand, trade name, generic type and catalog number of the proposed system for the Engineer's approval.
- C. Paint used in successive field coats shall be produced by the same manufacturer. Paint used in the first field coat over shop painted or previously painted surfaces shall cause no wrinkling, lifting, or other damage to underlying paint. Shop paint shall be of the same type and manufacture as used for field painting by the Contractor.
- D. Emulsion and alkyd paints shall contain a mildewcide and both the paint and mildewcide shall conform to OSHA and Federal requirements, including Federal Specification TT-P- 19.
- E. Finish coats containing lead shall not be allowed. Oil shall be pure boiled linseed oil.
- F. Rags shall be clean painter's rags, completely sterilized.

2.02 COATING SYSTEMS

- A. Class 3 Exposures – Below Grade Concrete Surfaces Not In Contact With Potable Water
 - 1. Class 3 exposures consist of all exterior below grade surfaces for precast and cast-in-place concrete structures, and masonry structures, as well as interior surfaces for concrete manholes and meter and/or valve vaults and shall include the following:
 - a. Exterior below grade surfaces of precast and cast-in-place concrete wetwells, sanitary manholes, vaults, and electrical pull boxes.

PART 3 - EXECUTION

3.01 SHOP PAINTING

- A. Surface Preparation - All ferrous metal to be primed in the shop shall have all rust, dust and scale, as well as all other foreign substances, removed by sandblasting or pickling in accordance with SSPC-SP5 or SP8, respectively. Cleaned metal shall be primed or pretreated immediately after cleaning to prevent new rusting. Under no circumstances will cleaned metal be allowed to sit overnight before priming, or pretreatment and priming. All nonferrous metals shall be solvent cleaned prior to the application of primer. In addition, galvanized surfaces which are to be topcoated shall first be degreased then primed. All non-ferrous metal surfaces shall also be scarified prior to topcoating.
- B. Materials Preparation:
1. Mix and prepare painting materials in strict accordance with manufacturer's recommendations and directions, stirring materials before and during application to maintain a mixture of uniform density, free of film, dirt and other foreign materials.
 2. No thinners shall be used except those specifically mentioned and only in such quantity as directed by the manufacturer in his instructions. If thinning is used, sufficient additional coats shall be applied to assure the required dry film thickness is achieved. The manufacturer's recommended thinner or cleanup solvent shall be used for all clean-up. Application by brush, spray, airless spray or roller shall be as recommended by the manufacturer for optimum performance and appearance.
- C. Applications:
1. All painting shall be done by skilled and experienced craftsmen and shall be of highest quality workmanship. Coating systems shall be as specified herein.
 2. Apply paint in accordance with the manufacturer's directions. Use applicators and techniques best suited for the type of material being applied.
 3. All paint and coatings materials shall be stored under cover and at a temperature within 10°F of the anticipated application temperature and at least 5°F above the dew point.

4. Apply additional coats when undercoats, stains or other conditions show through the final coat of paint, until the paint film is of uniform finish, color and appearance.
 5. Paint shall be applied in a neat manner with finished surfaces free of runs, sags, ridges, laps and brush marks. Each coat shall be applied in a manner that will produce an even film of uniform and proper thickness.
 6. Paint back sides of access panels and removable or hinged covers to match the exposed surfaces.
 7. Equipment manufacturer or supplier shall provide touch-up paint for items with shop applied finish coats.
 8. Where specified in the individual sections, primer coat(s) shall be applied in the shop by the equipment manufacturer. The shop coats shall be as specified and shall be compatible with the field coat or coats.
- D. Certification: The Contractor shall obtain from the equipment manufacturer or supplier, prior to shipment of equipment, a written certification that surface preparation, coating brand, material, DFT and application method complied with this Section.

3.02 SURFACE PREPARATION

- A. All dirt, rust, scale, splinters, loose particles, disintegrated paint, grease oil and other deleterious substances shall be removed from all surfaces which are to be coated.
- B. Hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items and surfaces not to be painted which are in contact with or nearby surfaces to be painted shall be removed, masked, or otherwise protected prior to surface preparation and painting operations. Refer to Paragraph 3.09B.
- C. Before commencing work, the painter must make certain that surfaces to be covered are in perfect condition and must obtain Engineer's approval to proceed. Should the painter find such surfaces impossible of acceptance, he shall report such fact to the Engineer. The application of paint shall be held as an acceptance of the surfaces and working conditions and the painter will be held responsible for the results reasonably expected from the materials and processes specified.
- D. Program the cleaning and painting so contaminants from the cleaning process will not fall onto wet, newly-painted surfaces.

E. Previously-Painted Surfaces (except ferrous metal, non-immersion)

1. Careful examination of the old coating is necessary in order to determine the condition of the coating prior to recommending the degree of surface preparation that will be needed. The old coating should be shaved with a knife to ascertain its present adhesion to the substrate, as well as the flexibility of the film. If the old coating has a tendency to powder or shatter easily under the knife, or disbonds freely from the substrate or underfilms, it would indicate total removal is necessary.
 - a. When up to 10 percent of the total area has failed, spot blasting back to at least one-inch into sound film, feathering of edges and spot priming is required.
 - b. When the coating system has deteriorated to approximately 25 percent of the total area, or if the coating is brittle, eroded or underfilm rusting is present, completely remove original coating system by sandblasting as specified.
2. Tank linings, immersion-service coatings, and some other types of high performance coatings generally require total removal before recoating. Consult manufacturer's recommendations for which of the other types of high performance coatings require total removal.
3. In instances where the film has been eroded due to weathering or worn thin due to abrasion or impingement with no rusting, the surface contaminants may be removed through high pressure water blasting (approximately 2,000 to 3,000 psi, over 4 gallons per minute) with emulsifying agents or cleaners, rinsed and dried. Roughening of the surface shall be used to improve the adhesion of subsequent coats. Recoat with the recommended finish coat(s).

F. PVC or Other Plastic Piping:

1. Solvent clean.
2. Lightly abrade surface with medium grade sandpaper. Remove dust by wiping with clean rags.

3.03 MATERIALS PREPARATION

- A. Mix and prepare painting materials in strict accordance with manufacturer's recommendations and directions, stirring materials before and during application to maintain a mixture of uniform density, free of film, dirt and other foreign materials.

- B. Except where otherwise specified, thinning shall be done only if necessary for the workability of the coating material and then, only in accordance with the coating manufacturer's most recent printed Application instructions. Use only thinner provided by coating manufacturer. If thinning is used, sufficient additional coats shall be applied to assure the required dry film thickness is achieved. The manufacturer's recommended thinner or cleanup solvent shall be used for all clean-up. Application by brush, spray, airless spray or roller shall be as recommended by the manufacturer for optimum performance and appearance.

3.04 APPLICATION

- A. All painting shall be done by skilled and experienced craftsmen and shall be of highest quality workmanship.
- B. Apply paint in accordance with the manufacturer's directions. Use applicators and techniques best suited for the type of material being applied. All equipment shall be maintained in good working order and shall be comparable to that described in the coating manufacturer's most recent Application Instructions. It shall be thoroughly cleaned and inspected daily. Worn spray nozzles, tips, etc., shall be replaced regularly. Effective oil and water separators shall be used and serviced on all air lines.
- C. All paints and coating materials shall be stored under cover and at a temperature within 10°F of the anticipated application temperature and at least 5°F above the dew point.
- D. Apply additional coats when undercoats, stains or other conditions show through the final coat or paint, until the paint film is of uniform finish, color and appearance.
- E. Paint shall be applied in a neat manner with finished surfaces free of runs, sags, ridges, laps and brush marks. Each coat shall be applied in a manner that will produce an even film of uniform and proper thickness. Allow each coat to dry thoroughly before applying the next coat; follow manufacturer's recommendations taking into account temperature and relative humidity.
- F. Paint back sides of access panels and removable or hinged covers to match the exposed surfaces.
- G. Omit the first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise specified.
- H. Retouching Existing Painted Surfaces: Existing painted surfaces damaged by the modification work or other operations of the Contractor shall be retouched to

conform to the above coating systems and blend in with the new and existing work. Damaged surfaces shall be repainted with not less than two (2) coats, and other existing surfaces that are listed shall be repainted with the coating system specified.

- I. The prime and intermediate coats as specified for the various coating systems may be applied in the shop by the manufacturer. The shop coats shall be of the type specified and shall be compatible with the field coat or coats. Such items as pumps, motors, equipment, electrical panels, etc. shall be given at least one touch-up coat with the intermediate coat material and one complete finish coat in the field.

3.05 APPLICATION RESTRICTIONS

A. Environmental Requirements:

1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating systems can be applied.
 - a. The conditions below shall be adhered to even if manufacturer's recommendations are less stringent. If manufacturer's recommendations are more stringent, they shall apply.
 - b. No coatings shall be applied when the air, surface, and material temperature is below 55°F or above 95°F for 24 hours prior to and 24 hours after coating application. Surface temperature shall be at least 5°F above the dew point for 24 hours prior to and 24 hours after coating application. The dewpoint shall be determined by use of a sling psychrometer in conjunction with U.S. Weather Bureau psychrometric tables. Do not apply coatings when the relative humidity exceeds 85 percent or to damp or wet surfaces, unless otherwise permitted by the coating manufacturer's printed instructions. No painting shall be done when the surfaces may become damaged by rain, fog or condensation or when it is anticipated that these conditions will prevail during the drying period, unless suitable enclosures to protect the surface are used. Where heat is necessary, it shall be supplied by the painting applicator and shall be of such type that it will maintain an air and coated surface temperature of 55°F minimum prior to and after the coating application as described above, and 90°F minimum during the cure stage if hot air forced curing is recommended by the coating manufacturer for special coatings. Further, this heater shall be of such type as not to contaminate the surface area to be or being coated with combustion products. The Contractor shall supply utilities to run electric or gas heaters. Any surface coating

damaged by moisture or rain shall be removed and redone as directed by the Owner or Engineer.

2. Do not apply finish in areas where dust is being or will be generated during application through full cure.
 3. All exterior painting shall be done only in dry whether.
 4. Spray application shall occur only when wind velocities, including gusts, are less than 10 miles per hour. All materials, equipment, etc. in the vicinity of spray application shall be protected from overspray.
- B. Application of materials shall be done only on properly prepared surfaces as herein specified. Between any two coats of material, unless specifically cover in the coating manufacturer's most recent printed application instructions, if more than one (1) week passes between subsequent coats, the coating manufacturer will be contacted for his recommended preparation of the surface prior to application of the next coat. This preparation might include brush-off blasting, steam cleaning, or solvent wiping (with an indicated solvent) and shall be specified in writing by the material supplier and followed by the applicator. Any surface coating damaged by moisture or rain shall be removed and redone as directed by the Owner or Engineer.
- C. In no case shall paint be applied to surfaces which show a moisture content greater than 14 percent. The presence of moisture shall be determined prior to coating by testing with a moisture detection device such as a Delmhorst Model DLM2E.

3.06 MINIMUM COATING THICKNESS

- A. Coating thickness shall meet or exceed the specified minimum dry film thickness (DFT) in all areas. The average coating thickness as determined by multiple representative DFT measurements shall meet or exceed the mid-point of DFT range. If below this DFT value, the surface shall be recoated with at least the minimum DFT until the total DFT meets or exceeds the mid-point DFT.
- B. Coverage rates are theoretical as calculated by the coating manufacturer and are, therefore, the maximum allowable.
- C. Apply a prime coat to material which is required to be painted or finished, and which has not been prime coated by others.

3.07 FINISHES

- A. Pigmented (Opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.

3.08 FIELD QUALITY CONTROL

- A. The Contractor shall request acceptance of each coat by the Owner's representative before applying the next coat; and the Contractor shall provide the necessary properly calibrated gauges. All nonferrous surfaces shall be checked for number of coats and thickness by use of a Tooke gauge. All ferrous surfaces shall be checked for film thickness by use of an Elcometer or Micro-Test magnetic dry film gauge properly calibrated. In addition, submerged tank linings and metals shall be tested for freedom from holidays and pinholes by use of a Tinker-Razor or K-D Bird Dog Holiday Detector. All defects shall be corrected to the satisfaction of the Owner.

3.09 PROTECTION

- A. All other surfaces shall be protected while painting.

3.10 CLEANING

- A. The Contractor shall perform the work under this Section while keeping the premises free from accumulation of dust, debris and rubbish and shall remove all scaffolding, paint cloths, paint, empty paint containers, and brushes from buildings and the project site when completed.
- B. Cleaning: All paint brushed, splattered, spilled or splashed on any surface not specified to be painted shall be removed.
- C. Upon completion of the project, the job site shall be left neat and clean.

3.11 EXTRA STOCK

- A. Paint To Be Supplied To Owner: Upon completion of painting work, the Owner shall be furnished at no additional cost, unopened containers providing a minimum of one (1) gallon of each type and color of finish paint for touching up. Multi-component coatings shall have each component supplied in separate containers boxed together. Paint container labels shall be complete with manufacturer's name, generic type, number, color and location where used.

END OF SECTION

SECTION 09905

PIPING, VALVE, AND EQUIPMENT IDENTIFICATION SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: The work included under this Section consists of providing an identification system for piping systems and related equipment.
- B. Related Work Described Elsewhere:
 - 1. Painting: Section 09900

1.02 QUALITY ASSURANCE

- A. Standards: ANSI Standard A13.1, Scheme for the Identification of Piping Systems.

1.03 SUBMITTALS

- A. Submit manufacturer's descriptive literature, illustrations, specifications, and other pertinent data.
- B. Schedules:
 - 1. Provide a typewritten list of all tagged valves giving tag color, shape, letter code and number, the valve size, type, use, and general location.
 - 2. Provide a complete list of materials to be furnished and surfaces on which they will be used.
- C. Samples:
 - 1. Provide a sample of each type valve tag supplied.
 - 2. Provide a sample of each type of identification tape supplied.
 - 3. Provide manufacturer's color charts for color selection by Engineer.

1.04 PRODUCTS DELIVERY, STORAGE, AND HANDING

- A. Delivery Of Materials: Except for locally mixed custom colors, deliver sealed containers with labels legible and intact.
- B. Storage Of Materials:
 - 1. Store only acceptable project materials on project site.
 - 2. Store in suitable location.
 - 3. Restrict storage to paint materials and related equipment.
 - 4. Comply with health and fire regulations.

1.05 JOB CONDITIONS

- A. Environmental Requirements:
 - 1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating systems can be applied.
 - 2. Do not apply finish in areas where dust is being generated.
- B. Protection: Cover or otherwise protect finished work of other trades and surfaces not to be painted.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Materials for painting shall conform to requirements of Section 09900: Painting.
- B. Materials selected for coating systems for each type surface shall be the product of a single manufacturer.
- C. Aboveground piping shall be identified by self-adhesive pipe markers equal to those manufactured by W. H. Brady Company.
 - 1. Markers shall be of wording and color as shown in Table 09905.

2. Lettering shall be:
 - a) 2 1/4-inches high for pipes 3 inches diameter and larger.
 - b) 1 1/8-inches high for pipes less than 3 inches diameter.
3. Flow arrows shall be:
 - a) 2 1/4-inches by 6 inches for pipes 3 inches diameter and larger.
 - b) 1 1/8-inches by 3 inches for pipes less than 3 inches diameter.

D. Buried piping shall be identified by identification tape installed over the centerline of the pipelines.

1. Identification Tape for Steel or Iron Pipe: Identification tape shall be manufactured of inert polyethylene film so as to be highly resistant to alkalies, acids, or other destructive agents found in soil, and shall have a minimum thickness of 4 mils. Tape width shall be 6 inches and shall have background color specified below, imprinted with black letters. Imprint shall be as specified below and shall repeat itself a minimum of once every 2 feet for entire length of tape. Tape shall be Terra Tape Standard 250, or approved equal.
2. Identification Tape for Plastic or Non-Magnetic Pipe: Identification tape shall be manufactured of reinforced polyethylene film with a minimum overall thickness of 4 mils and shall have a 0.35 mil thick magnetic metallic foil core. The tape shall be highly resistant to alkalies, acids, and other destructive agents found in soil. Tape width shall be 3 inches and shall have background color specified below, imprinted with black letters. Imprint shall be as specified below and shall repeat itself a minimum of once every 2 feet for entire length of tape. Tape shall be TerraTape Sentry Line 1350, or approved equal.
3. Tape background colors and imprints shall be as follows:

<u>Imprint</u>	<u>Background Color</u>
"Caution Water Line Buried Below"	Blue

4. Identification tape shall be "Terra Tape" as manufactured by Reef Industries, Inc., Houston, TX; Allen Systems, Inc., Wheaton, IL; or approved equal.

E. Pipe Tracing

1. All buried piping shall be installed with continuous insulated 10 gauge solid copper tracer wire. Locating wire shall be color coated according to Table 09905. Locate wire installation shall pass a continuity check with an approved tracing system before acceptance by owner.

F. Aboveground Valve Identifications: A coded and numbered tag attached with brass chain and/or brass "S" hooks shall be provided on all valves.

1. Tag Types: Tags for valves on pipe shall be brass or anodized aluminum. Colors for aluminum tags shall, where possible, match the color code of the pipe line on which installed. Square tags shall be used to indicate normally closed valves and round tags shall indicate normally open valves.
2. Coding: In addition to the color coding, each tag shall be stamped or engraved with wording or abbreviations to indicate the valve service and number. All color and letter coding shall be approved by the Engineer. Valve service shall either be as listed in Table 09905, or by equipment abbreviation if associated with a particular piece of equipment. Valve numbering, if required, shall be as approved by the Engineer and/or Owner.

G. Buried valves shall have valve boxes protected by a concrete pad. The concrete pad for the valve box cover shall have a 3-inch diameter, bronze disc embedded in the surface as shown on the Drawings. The bronze disc shall have the following information neatly stamped on it:

1. Size of valve.
2. Type of Valve:
 - a. GV – Gate Valve
3. Valve Service – See Table 09905 for abbreviations.
4. Direction and number of turns to open.
5. Valve Identification No.

PART 3 - EXECUTION

3.01 COLOR CODING FOR PIPES AND EQUIPMENT

- A. Piping color codes, and code labels for pipe identification shall conform to Table 09905.
- B. General Notes and Guidelines:
 - 1. Pipelines, equipment, or other items which are not listed here shall be assigned a color by the Owner and shall be treated as an integral part of the Contract.
 - 2. Color coding shall consist of color code painting and identification of all exposed conduits, through lines and pipelines for the transport of gases, liquids, or semi-liquids including all accessories such as valves, insulated pipe coverings, fittings, junction boxes, bus bars, connectors and any operating accessories which are integral to a whole functional mechanical pipe and electrical conduit systems.
 - 3. All moving parts, drive assemblies, and covers for moving parts which are potential hazards shall be Safety Orange.
 - 4. All safety equipment shall be painted in accordance with OSHA standards.
 - 5. All inline equipment and appurtenances not assigned another color shall be painted the same base color as the piping. The pipe system shall be painted with the pipe color up to, but not including, the flanges attached to pumps and mechanical equipment assigned another color.
 - 6. All pipe hangers and pipe support floor standards shall be painted, unless specified otherwise due to material of construction.
- C. All hangers and pipe support floor and accessories stands shall be painted to match their piping. The system shall be painted up to, but not including, the face of flanges or the flexible conduit connected to electrical equipment. Structural members used solely for pipe hangers or supports shall be painted to match their piping. Where the contact of dissimilar metals may cause electrolysis and where aluminum will contact concrete, mortar or plaster, the contact surface of the metals shall be coated in accordance with Section 09900.
- D. All systems which are an integral part of the equipment, that is originating from the equipment and returning to the same piece of equipment, shall be painted between and up to, but not including, the face of flanges or connections on the equipment.

- E. All insulated surfaces, unless otherwise specified, shall be given one coat of glue sizing, one prime coat and one finish coat.

3.02 FABRICATED EQUIPMENT

- A. Unless otherwise indicated or specifically approved, all fabricated equipment shall be shop primed and finished. See Section 09900 - Painting.
- B. The Contractor shall be responsible for and take whatever steps are necessary to properly protect the shop prime and finish coats against damage from weather or any other cause.
- C. Where specified in other sections of these specifications for mechanical equipment, the Contractor shall apply field coat or coats of paint in accordance with Section 09900. If shop finish coat is unsatisfactory due to poor adhesion or other problems with primer or finish coats, coatings shall be removed and replaced by sandblasting, priming and finishing in accordance with Section 09900 and this Section.
- D. Wherever fabricated equipment is required to be sandblasted, the Contractor shall protect all motors, drives, bearings, gears, etc., from the entry of grit. Any equipment found to contain grit shall be promptly and thoroughly cleaned. Equipment contaminated by grit in critical areas, such as bearings, gears, seals, etc., shall be replaced at no cost to the Owner.

3.03 INSTALLATION OF IDENTIFICATION TAPE

- A. Identification tape shall be installed for all buried piping in accordance with the manufacturer's installation instructions and as specified herein.
- B. Identification tape for piping shall be installed at two (2) locations:
 - 1. One (1) foot below finished grade along centerline of pipe, and;
 - 2. Directly on top of the pipe.

3.04 INSTALLATION OF TRACING WIRE

- A. All PVC pipe or other approved nonmetallic pipe installed within Deltona Water's water, sanitary sewer, or reuse water systems shall be installed with 12 gauge thick solid copper tracing wire.
- B. The tracing wire must be installed directly above the pipe and brought to the surface at 500-foot minimum intervals. Wire shall extend a minimum of 12 inches above grade at each interval and be coiled and placed in a valve box, meter box, manhole, cleanout, or other applicable structure.

- C. Tracing wire between intervals shall be installed so as to provide continuous current when line location equipment is connected to the tracing wire. Wire branching from main lines shall be linked by a Deltona Water approved connector such as King #2011 safety sealed connectors or approved equal.

3.05 BURIED VALVES

- A. In paved or concrete areas, tops of valve box covers shall be set flush with pavement or concrete top. In concrete areas, valve boxes shall be embedded. Following paving operations, a 24 inch square shall be neatly cut in the pavement around the box and the paving removed. The top of the box shall then be adjusted to the proper elevation and a 24 inch square by 6 inch thick concrete pad poured around the box cover. Concrete pads in traffic areas shall be reinforced with No. 4 reinforcement bars as shown on the Drawings. Concrete for the pad shall be 3,000 psi compressive strength.
- B. In unpaved areas, tops of valve box covers shall be set 0.20-foot above finished grade. After the top of the box is set to the proper elevation, a 24 inch square by 6 inch thick concrete pad shall be poured around the box cover. Concrete for the pad shall be 3,000 psi compressive strength.
- C. The bronze, valve identification disc shall be embedded in the concrete pad.

3.06 EQUIPMENT

- A. Stainless steel nameplates giving the name of the manufacturer, serial number, model number, horsepower, speed, voltage, amperes, an all other pertinent data shall be attached to each motor.

TABLE 09905

COLOR CODES AND ABBREVIATIONS

Service	Mark	Conduit, Pipe, and Valve Color Code	Letter and Flow Arrow Color
Potable Water	PW	Dark Blue	White

END OF SECTION

SECTION 15044

PRESSURE TESTING OF PIPING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Scope of Work: This section specifies the leakage testing requirements for water main and force main piping.
- B. Test Pressures: Test pressures for the various services and types of piping are shown in Table 15044, at the end of this Section.
- C. Testing Records:
 - 1. Provide a record of each piping installation during the testing. These records shall include:
 - a) Date of test.
 - b) Identification of pipeline tested or retested.
 - c) Identification of pipeline material.
 - d) Identification of pipe specification.
 - e) Test fluid.
 - f) Test pressure.
 - g) Remarks: Leaks identified (type and location), types of repairs, or corrections made.
 - h) Certification by Contractor of no leakage as specified herein.
 - i) Signature of Owner's representative witnessing pipe test.
 - 2. Submit five (5) copies of the test records to the Engineer's representative upon completion of the testing unless otherwise required by the Contract Drawings General Notes.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Testing fluid shall be water for all hydrostatic tests.

2.02 MATERIALS AND EQUIPMENT

- A. Provide pressure gauges, pipes, bulkheads, pumps, and meters to perform the hydrostatic and pneumatic testing.

PART 3 - EXECUTION

3.01 TESTING PREPARATION

- A. Pipes shall be in place and anchored before commencing pressure testing.
- B. Before conducting hydrostatic tests, flush pipes with water to remove dirt and debris. For pneumatic tests, blow air through the pipes.
- C. Test new pipelines which are to be connected to existing pipelines by isolating the new line from the existing line by means of pipe caps, special flanges, or blind flanges. After the new line has been successfully tested, remove caps or flanges and connect to the existing piping.
- D. Conduct hydrostatic tests on buried pipe after the trench has been completely backfilled. The pipe may be partially backfilled and the joints left exposed for inspection for an initial leakage test. Perform the final test, however, after completely backfilling and compacting the trench.
- E. Pressure Test:
 - 1. All tests shall be made in the presence of and to the satisfaction of the Owner or Engineer and also, to the satisfaction of any local or state inspector having jurisdiction.
 - a. Provide not less than three (3) days notice to the Owner, Engineer, and the authority having jurisdiction when it is proposed to make the tests.
 - b. Any piping or equipment that has been left unprotected and subject to mechanical or other injury in the opinion of the Engineer shall be retested in part or in whole as directed by the Engineer.

- c. The piping systems may be tested in sections as the work progresses, but no joint or portion of the system shall be left untested.
2. All elements within the system that may be damaged by the testing operation shall be removed or otherwise protected during the operation.
3. Repair all damage done to existing or adjacent work or materials due to or on account of the tests.

3.02 INSPECTION AND TESTING

A. Hydrostatic Testing of Buried Piping:

1. Where any section of the piping contains concrete thrust blocks or encasement, do not make the pressure test until at least 10 days after the concrete has been poured. When testing mortar-lined piping, fill the pipe to be tested with water and allow it to soak for at least 48 hours to absorb water before conducting the pressure test.
2. Apply and maintain the test pressure by means of a hydraulic force pump. Maintain the test pressure for a minimum duration of two (2) hours. After the test pressure is reached, use a meter to measure the additional water added to maintain the pressure during the two hours. This amount of water is the loss due to leakage in the piping system. No leakage will be allowed.

TABLE 15044

PIPING PRESSURE TEST SCHEDULE

Service	Mark	Test Pressure (psig)
Water	WM	150
Force Main	FM	100

NOTES:

1. Piping not listed and sections of piping in gross discrepancy with listed pressure, with the approval of the Engineer, shall be tested at a minimum of 1.5 times working pressure.

END OF SECTION

SECTION 15050

UTILITY PIPING, FITTINGS, VALVES, AND ACCESSORIES

PART 1-GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. The Work included in this Section consists of furnishing all labor, equipment, and materials and in performing all operations necessary for the construction, installation or restoration of all utility piping, valves, and appurtenances complete and ready for operation as shown on the Drawings and specified herein.
2. All products in contact with potable water shall be in accordance with ANSI/NSF Standard 61 for potable water contact.

B. Related Work Described Elsewhere:

1. Section 15044: Pressure Testing of Piping

1.02 QUALITY ASSURANCE

A. Construction Requirements:

1. All the lines shall be installed with at least 36 inches of cover, unless otherwise shown or indicated on the Drawings.
2. For underground utilities, changes in horizontal alignment of less than 11-1/4 degrees may be achieved through the use of allowable pipe deflection in lieu of fittings shown on the Drawings at the Contractor's option, but subject to approval of the Engineer as to layout. Said deflection shall not exceed 80 percent of the maximum allowable deflection as stated in the pipe manufacturer's installation instructions.
3. All piping installed above grade and underneath structures or concrete slabs shall be ductile iron Pressure Class 250 for 14-inch pipe and larger and Pressure Class 350 for 12-inch pipe and smaller.
4. Install proposed pipe so as not to scratch, dent, or damage any existing pipes. Pipe shall be installed in a way that prevents damaging existing

pipe. If existing pipes are damaged due to construction, the contractor shall be required to repair the pipe according to the Owner's requirements.

- B. Pipe Inspection: The Contractor shall obtain from the pipe manufacturers a certificate of inspection to the effect that the pipe and fittings supplied for this Contract have been inspected at the plant and that they meet the requirements of these Specifications. All pipe and fittings shall be subject to visual inspection at time of delivery by rail or truck and also just before they are lowered into the trench to be laid. Joints or fittings that do not conform to these Specifications will be rejected and must be removed immediately by the Contractor.

The entire product of any plant may be rejected when, in the opinion of the Engineer, the methods of manufacture fail to secure uniform results, or where the materials used are such as to produce inferior pipe or fittings.

1.03 SUBMITTALS

A. Shop Drawings:

1. In general, the following Shop Drawings shall be submitted to the Engineer for approval prior to construction:
 - a) Mill test certificates or certified test reports on pipe and fittings.
 - b) Details of restrained and flexible joints.
 - c) Valve boxes.
 - d) All valves.
 - e) Couplings.
 - f) Wet taps.
 - g) Pressure gauges.
 - h) Joint lubricant.
 - i) Temporary plug and anchorage system for hydrostatic pressure test.
2. A separate Shop Drawing submittal will be required for each major item listed above and for each different type of an item within a major item. For example, separate submittals will be required for butterfly, plug, ball, solenoid, check, and automatic air release valves.

B. Acceptance of Material:

1. The Contractor shall furnish an Affidavit of Compliance certified by the pipe manufacturer that the pipe, fittings, and specials furnished under this Contract comply with all applicable provisions of current AWWA and ASTM standards and these Specifications. No pipe or fittings will be accepted for use in the Work on this project until the Affidavit has been submitted and approved by the Engineer.

2. The Owner reserves the right to sample and test any pipe or fitting after delivery and to reject all pipe and fittings represented by any sample which fails to comply with the specified requirements.
- C. Operation and Maintenance Manuals: Submit operation and maintenance manuals for applicable components requiring periodic maintenance and/or explanation of operation, at the discretion of the Engineer. Manuals shall be prepared in accordance with Section 01730: Operating and Maintenance Data.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Pipe, fittings, valves, and accessories shall be handled in such manner as to ensure a sound undamaged condition during shipping, delivering, and installing.
- B. Particular care shall be taken not to injure the pipe coating and linings.
- C. Insides of valves and piping shall be kept free of dirt and debris.

1.05 JOB CONDITIONS

- A. Water in Excavation: Water shall not be allowed in the trenches while underground pipes are being laid and/or tested. The Contractor shall not open more trench than the available pumping facilities are able to dewater to the satisfaction of the Engineer. The Contractor shall assume responsibility for disposing of all water so as not to injure or interfere with the normal drainage of the territory in which he is working. In no case shall the pipelines being installed be used as drains for such water, and the ends of the pipe shall be kept properly and adequately plugged during construction by the use of approved stoppers and not by improvised equipment. All necessary precautions shall be taken to prevent the entrance of mud, sand, or other obstructing matter into the pipelines. If on completion of the work any such materials have entered the pipelines, it must be cleaned as directed by the Engineer so that the entire system will be left clean and unobstructed.

PART 2 - PRODUCTS

2.01 DUCTILE IRON PIPE AND FITTINGS

- A. Ductile Iron Pipe: Ductile iron pipe shall conform to the requirements of ANSI, A21.51 and AWWA C151, latest revision. The minimum thickness class for underground pipe shall be Class 350 for 4-inch through 12-inch pipe. The minimum thickness class for underground pipe shall be Class 250 for 14-inch pipe through 54-inch pipe. Flanged pipe shall have a minimum thickness class of Class 53. Pipe shall have a minimum rated water working pressure of 350 psi and

250 psi, respectively, and shall be furnished in laying lengths of 20 feet or less, unless specifically shown otherwise on the Drawings.

1. Ductile Iron Pipe for Potable Water shall be from one of the following manufacturers: American, McWane, or U.S. Pipe.
2. Ductile Iron Pipe for Wastewater Piping shall be from one of the following manufacturers: American, McWane, or U.S. Pipe.
3. Push-On Joints shall be in strict accordance with AWWA C111 and ANSI A21.11 "Rubber-Gasket joints for Ductile-Iron Pressure Pipe and Fittings", latest revision, Class: 350-psi working pressure rating, and shall be as manufactured by American (Fastite), U.S. Pipe (Tyton), or McWane (Tyton/Fastite).
 - a. Push-On Joint Gaskets for Potable Water shall be Styrene Butadiene Rubber (SBR) ring type provided by the pipe manufacturer and installation shall be in strict accordance with the manufacturer's recommended practice.
 - b. Push-On Joint Gaskets for Wastewater Piping shall be Neoprene rubber ring type provided by the pipe manufacturer and installation shall be in strict accordance with the manufacturer's recommended practice.

B. Coating and Lining:

1. Interior Lining for Potable Water Main: All ductile iron pipe, fittings, and specials shall have an interior protective coating of cement-mortar with a seal coat of asphaltic material in accordance with ANSI/AWWA A21.4/C104.
2. Interior Lining for Wastewater Piping: Ductile iron pipe, fittings, and specials shall be lined with Protecto 401 Ceramic Epoxy, a high build multi-component amine cured Novalac epoxy lining, containing at least 20 percent by volume of ceramic quartz pigment, manufactured by Indurall Coatings, Inc., Birmingham, Alabama, or approved equal. The interiors of the ductile iron pipe, fittings, and specials shall receive 40 mils dry film thickness (DFT) of the ceramic epoxy protective lining. Storage, surface preparation, application, and safety precautions shall strictly follow manufacturer's instructions.
3. Exterior Coating for Below Ground Pipe: Where ductile iron pipe and fittings are to be below ground or installed in a casing pipe the exterior

coating shall be a minimum 1.0 mil thick in accordance with ANSI/AWWA A21.51/C151.

4. Exterior Coating for Exposed Pipe: Ductile iron pipe, fittings, and specials to be installed aboveground shall be furnished with a shop applied primer on the exterior. See Section 09900 for finished coating for all exposed piping.
- C. Fittings: Fittings for ductile iron pipe shall be either mechanical joint, restrained joint, or flanged joint as indicated on the Drawings and shall have a minimum working pressure of 250 psi. Fittings shall be ductile iron and shall conform to ANSI/AWWA C110, ANSI/AWWA C111 and ANSI/AWWA C153, latest revisions for flanged and mechanical joint pipe. Fittings shall be coated and lined as indicated on the Drawings and in the manner specified above for ductile iron pipe.
- D. Flanged Joints: Flanges shall be Class 125 per ANSI B16.1 with any special drilling and tapping as required to insure correct alignment and bolting.
1. Gaskets shall be suitable for a water pressure of 350 psi at a temperature of 180°F. Flanged joint bolts, washers, and nuts shall be manufactured of hot dipped galvanized, Grade B, ASTM A-307 for above ground installation, and 304 stainless steel for below ground installation.
 - a. Spans less than 10-feet: fullface, 1/8-inch thick neoprene rubber.
 - b. Spans greater than 10-feet: Toruseal gaskets as manufactured by American, or Engineer approved equal.
- E. Restrained Joints and Fittings: Pipe joints and fittings shall be restrained in accordance with restrained joint detail as shown on the drawings and the requirements of this Specification. It is intended that, at a minimum, all fittings shall be restrained. In cases where the calculated required length of restrained pipe is not evenly divisible by nominal laying lengths of pipe, the total required length of restrained pipe shall be rounded up to the next closest nominal length that is evenly divisible by the standard laying length.
1. Manufactured Restrained Joints: Joints shall be manufacturer's standard specifically modified push-on type joints with joint restraint provided by ductile iron retainer rings joined together by corrosion-resistant, high strength steel tee head bolts and nuts or with joint restraint provided by a welded-on retainer ring and a split flexible ring assembled behind the retainer ring.

- a. Manufactured Restrained Joints for Potable Water shall be from one of the following manufacturers: EBAA Iron, Tyler, MJR, Romac Grip Ring, One Bolt, Inc., Uniflange, or Sigma.
 - b. Manufactured Restrained Joints for Wastewater shall be from one of the following manufacturers: EBAA Iron, or FORD: UFR Series.
2. Alternate Restrained Joints: Ductile iron pipe and fittings with mechanical joints may be restrained using a follower gland which includes a restraining mechanism. When actuated during installation, the restraining device shall impart a multiple wedging action against the pipe wall which increases resistance as internal pressure in the pipeline increases.
 - a. The joint shall maintain flexibility after installation. Glands shall be manufactured of ductile iron conforming to ASTM A536 and restraining devices shall be of heat treated ductile iron with a minimum hardness of 370 BHN. The gland shall have standard dimension and bolting patterns for mechanical joints conforming to ANSI/AWWA C111 and C153, latest revisions.
 - b. The restraining wedges shall have twist-off nuts to insure proper torqueing. The mechanical joint restraint device shall have a minimum working pressure rating of 250 psi with a minimum safety factor of 2 to 1.
 - c. Alternate Restrained Joints shall be MEGALUG[®] as manufactured by EBBA Iron, Inc. No other follower retainer gland with restraining mechanism will be acceptable.
3. Push-On (Gasket) Restrained Joints: Pipe using push-on (gasket) restrained joints shall be in strict accordance with AWWA C111 and ANSI A21.11 "Rubber-Gasket joints for Ductile-Iron Pressure Pipe and Fittings", latest revision; and shall be as manufactured by American (Fastite with Fast-Grip Gasket), U.S. Pipe (Field Lok), or McWane (Sure Stop). Jointing materials shall be provided by the pipe manufacturer and installation shall be in strict accordance with the manufacturer's recommended practice.
4. Restrained joint pipe and fittings shall be ductile iron only and shall comply with applicable portions of this Specification. Manufactured restrained joints shall be capable of deflection during assembly. Deflection shall not exceed 80 percent of the manufacturer's recommendations.

5. Tee head bolts, washers, and nuts for mechanical joints shall be manufactured of Ductile iron meeting ASTM A536, Grade 65-42-10 or Corten steel meeting the requirements of ASTM A242.
- F. Mechanical Joints: Jointing materials for mechanical joints shall be provided by the pipe and fitting manufacturer. Materials assembly and bolting shall be in strict accordance with ANSI/AWWA C111 and ANSI/AWWA C153, latest revisions. Tee head bolts, washers, and nuts for mechanical joints shall be manufactured of Ductile iron meeting ASTM A536, Grade 65-42-10 or Corten steel meeting the requirements of ASTM A242.

2.02 POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

- A. Small Pressure Piping for Water Service: Unless otherwise specified, pressure pipe smaller than 4-inches minimal diameter shall be polyethylene tubing in accordance with Paragraph 2.07.
- B. Large PVC Pressure Piping for Potable Water Service: Unless otherwise noted, PVC pressure pipe for nominal diameters 4 inches and larger in size shall conform to the requirements of AWWA C900 DR18 up to 12 inches and AWWA C905 DR18 larger than 12 inches with gasketed integral bell ends. Pipe shall be designed for maximum working pressure of not less than 150 psi and with not less than a 4 to 1 sustained hydrostatic pressure safety factor. Potable water main shall be blue in color. PVC pressure pipe shall bear the approved seal of the National Sanitation Foundation (NSF). Fittings shall be ductile iron fittings with restrained mechanical joint ends. Pipe shall be made to ductile iron pipe O.D.'s instead of IPS.

1. Bell and Spigot:

Pipe joints shall be made with integral bell and spigot pipe ends. The bell shall consist of an integral thickened wall section designed to be at least as strong as the pipe wall. PVC pipe shall have integral bell push-on type joints conforming to ASTM D3139. The gasket shall meet the requirements of ASTM F477 "Elastomeric Seals (Gaskets) for Joining Plastic Pipe".

- a. PVC pipe for Potable Water Service shall be manufactured by Certainteed, Can-Tex, North Star (North American Pipe), J-M, Capco, H&W Industries (North American Pipe), Freedom (North American Pipe), IpeX, or National Pipe.

2. Restrained Joints:

In accordance with the Drawings, to prevent pipe joints and fittings from separating under pressure, pipe joints and fittings shall be restrained with manufactured restraints as follows.

- a. PVC pipe bell and spigot joints shall be restrained with the EBBA Iron MEGALUG[®] Series 1500 Restrainer or an equal approved by the Engineer. The restraining device and Tee head bolts shall be manufactured of high strength ductile iron meeting ASTM A536, Grade 65-42-10. Clamping bolts and nuts shall be manufactured of ductile iron or Corten steel meeting the requirements of ASTM A242.
 - b. Mechanical joint fittings used with PVC pipe shall be restrained with the EBBA Iron MEGALUG[®] Series 2000 PV Restrainer or an equal approved by the Engineer. The restraining device and Tee head bolts shall be manufactured of high strength ductile iron meeting ASTM A536, Grade 65-42-10. Clamping bolts and nuts shall be manufactured of ductile iron or Corten steel meeting the requirements of ASTM A242.
 - c. Manufactured restrained joints for Potable Water PVC pipe shall be manufactured by: EBAA Iron, Tyler, MJR, Romac Grip Ring, Sigma, or Uniflange.
- C. Large PVC Pressure Piping for Wastewater Service: Unless otherwise noted, PVC pressure pipe for nominal diameters 4 inches and larger in size shall conform to the requirements of AWWA C900 DR25 up to 12 inches and AWWA C905 DR25 larger than 12 inches with gasketed integral bell ends. Pipe shall be designed for maximum working pressure of not less than 100 psi and with not less than a 4 to 1 sustained hydrostatic pressure safety factor. Pipe shall be green in color. Fittings shall be ductile iron fittings with restrained mechanical joint ends. Pipe shall be made to ductile iron pipe O.D.'s instead of IPS.
1. Bell and Spigot:

Pipe joints shall be made with integral bell and spigot pipe ends. The bell shall consist of an integral thickened wall section designed to be at least as strong as the pipe wall. PVC pipe shall have integral bell push-on type joints conforming to ASTM D3139. The gasket shall meet the requirements of ASTM F477 "Elastomeric Seals (Gaskets) for Joining Plastic Pipe".

- a. PVC pipe for wastewater service shall be manufactured by National Pipe, North American, North Star (North American Pipe), J-M, Diamond, H&W Industries (North American Pipe), or Freedom Plastic (North American Pipe).

2. Restrained Joints:

In accordance with the Drawings, to prevent pipe joints and fittings from separating under pressure, pipe joints and fittings shall be restrained with manufactured restraints as follows. The following manufacturers may be used:

- a. PVC pipe bell and spigot joints shall be restrained with the EBBA Iron MEGALUG[®] Series 1500 Restrainer or an equal approved by the Engineer. The restraining device and Tee head bolts shall be manufactured of high strength ductile iron meeting ASTM A536, Grade 65-42-10. Clamping bolts and nuts shall be manufactured of ductile iron or Corten steel meeting the requirements of ASTM A242.
- b. Mechanical joint fittings used with PVC pipe shall be restrained with the EBBA Iron MEGALUG[®] Series 2000 PV Restrainer or an equal approved by the Engineer. The restraining device and Tee head bolts shall be manufactured of high strength ductile iron meeting ASTM A536, Grade 65-42-10. Clamping bolts and nuts shall be manufactured of ductile iron or Corten steel meeting the requirements of ASTM A242.
- c. Manufactured restrained joints for Wastewater PVC pipe shall be manufactured by: EBAA Iron: Megalug, Ford: UFR Series

D. Large Gravity Sewer Piping: Unless otherwise noted, large gravity sewer piping for nominal diameters 4 inches and larger in size shall conform to the requirements of ASTM D3034 SDR35 up to 15 inches and ASTM F679 PS46 larger than 15 inches with gasketed integral bell ends. Pipe shall be designed for a maximum working pressure at not less than 100 psi and with not less than a 4 to 1 sustained hydrostatic pressure safety factor. Fittings shall be PVC with push-on integral bell and flexible elastomeric ring type gaskets.

1. PVC pipe for wastewater service shall be manufactured by National Pipe, North American, North Star (North American Pipe), J-M, Diamond, H&W Industries (North American Pipe), or Freedom Plastic (North American Pipe).

2.03 GATE VALVES

A. Iron Gate Valves:

1. Iron gate valves shall open by turning to the left (counter-clockwise), when viewed from the stem. When fully open, gate valves shall have a clear waterway equal to the nominal diameter of the pipe. Operating nut or hand wheel shall have an arrow cast in the metal indicating the direction of opening. Each valve shall have the manufacturer's distinctive marking, pressure rating and year of manufacture cast on the body. Prior to shipment from the factory, each valve shall be tested by applying to it a hydrostatic pressure equal to twice the specified working pressure. Hydrostatic and leakage tests shall be conducted in strict accordance with ANSI/AWWA C500 or ANSI/AWWA C509, latest revisions, whichever is applicable. Each valve shall be fusion bond epoxy coated.
2. Gate valves with nominal sizes from 2 to 2 1/2 inches shall conform to ANSI/AWWA C500, latest revision, and shall be designed for a minimum working pressure of 200 psi. Valves shall be iron body, bronze-mounted, double disc, parallel seat, non-rising stem type with double, Buna-N, O-ring stem seals. Bronze items of construction shall include the stems, seat rings, stem nuts, wedge bushings, and upper and lower wedges. Bronze used for construction of these items shall be low zinc alloy bronze. Valve ends shall be screwed and as specified for steel pipe and fittings. Interior ferrous surfaces of valve, except for finished or bearing surfaces, shall be coated with a fusion bonded or thermo-setting epoxy coating in accordance with AWWA C550, latest revision. Coating shall be holiday-free, NSF approved, with a minimum thickness of 16 mils. Surfaces shall be clean, dry, and free from rust and grease before coating. Exterior surfaces shall be coated as specified hereinafter.
 - a. Gate valves with nominal sizes from 2 to 2 1/2 inches shall be as manufactured by American-Darling Valve Company, Kennedy Valve Manufacturing Company, or Dresser Industries, Inc.
3. Gate valves with nominal sizes from 3 to 16 inches shall conform to ANSI/AWWA C509, latest revision, and shall be designed for a minimum working pressure of 200 psi. Valves shall be iron body resilient seat type with O-ring stem seals. The valve stem, stem nut, glands, and bushings shall be bronze. Valve disc shall be constructed to assure uniform seating pressure between disc seat ring and body seating surface. Resilient seat of valve shall be formed by a special corrosion and chloramine resistant, synthetic elastomer which is permanently bonded to and completely encapsulates a cast iron valve disc. Valve ends for underground

installation shall be mechanical joint as specified for ductile iron pipe and flanged for above-ground valves.

- a. Resilient-seated type gate valves with nominal sizes from 3 to 16 inches shall be manufactured by Clow F6100, Mueller A-2360, A-2361, U.S. Pipe Metroseal 250, Waterous Series 500, American Flow Control Series 2500, M&H 4067, ITT Kennedy: Ken Seal II, and AVK.
4. Valve Joints: All gate valves shall have either mechanical joint, restrained joint, or flanged ends to fit the pipe run in which they are to be used. Gate valves installed on push-on joint pipe shall have mechanical joint ends unless otherwise specified.
5. Valve Operators: Unless otherwise shown on the Drawings or specified herein, gate valves shall have non-rising stems. Buried gate valves shall be furnished with a 2-inch square AWWA standard nut operator with a valve box and cover. Gate valves located aboveground or inside structures shall be furnished with a handwheel operator which shall have an arrow cast in the metal indicating the direction of opening. Gate valves used as isolation valves for reduced pressure back flow preventers shall be of the open screw and yoke (OS&Y) design with a handwheel operator.
6. Interior Valve Coating: Interior of the valve body shall be coated with a fusion bonded or thermo-setting epoxy coating in accordance with AWWA C550, latest revision. Coating shall be holiday-free, NSF approved, with a minimum thickness of 16 mils. Surfaces shall be clean, dry, and free from rust and grease before coating.

B. Inserta Valves:

1. Inserta Valves shall meet ANSI/AWWA C515 and be tested to 1000 psi. Working pressure rating shall be 250 psi. Valves shall be equipped with 2" standard operating nut. Valves shall open by turning to the left (counter-clockwise), when viewed from the stem. When fully open, valves shall have a clear waterway equal to the nominal diameter of the pipe. Operating nut or hand wheel shall have an arrow cast in the metal indicating the direction of opening. Each valve shall have the manufacturer's distinctive marking, pressure rating and year of manufacture cast on the body. Prior to shipment from the factory, each valve shall be tested by applying to it a hydrostatic pressure equal to twice the specified working pressure. Hydrostatic and leakage tests shall be conducted in strict accordance with ANSI/AWWA C500 or ANSI/AWWA C509, latest revisions, whichever is applicable. Each valve shall be fusion bond epoxy coated.

2. Inserta valves shall be InsertValve with Resilient Seat Gate Specs: MWS-617 manufactured by TEAM Industrial Services.

2.04 VALVE BOXES

- A. Furnish, assemble, and place a valve box over the operating nut for each buried valve. The valve box shall be designed so as to prevent the transmission of surface loads directly to the valve or piping.
- B. Valve boxes shall be of the adjustable slide-type of suitable length with an interior diameter of not less than 5 inches. The valve boxes shall be manufactured of cast iron and shall be of the two piece design including a bottom section and top section with cover. The cast iron cover shall be cast with the applicable service, "WATER" markings. The top section shall be adjustable for elevation and shall be set to allow equal movement above and below finished grade.
- C. The castings shall be manufactured of clean, even grain, gray cast iron conforming to ASTM A48, Class 30B for Gray Iron Castings; and shall be smooth, true to pattern, free from blow holes, sand holes, projections, and other harmful defects. The seating surfaces of both the cover and the top section shall be machined so that the cover will not rock after it has been seated.
- D. The valve boxes shall be coated inside and outside with an asphaltic coating prior to machining, so that the machined seating surfaces will be free of any coating. Valve extension stems shall be provided for all buried valves when operating nut is deeper than 3 feet below final grade.
- E. Cast iron valve box assemblies shall be Tyler Corp. or Sigma.

2.05 TIE RODS

- A. Steel for tie rods shall conform to the requirements of ASTM Designation A242, and rods shall be galvanized in conformance with requirements of ASTM Designation A123.

2.06 TAPPING SLEEVES AND VALVES

- A. General: Tapping sleeves used to make "wet" taps into existing mains shall be provided and installed at location as shown on the Drawings. Tapping sleeves shall be mechanical joint sleeves or fabricated steel sleeves as specified below. All pressure connections to asbestos cement pipe and all "size on size" taps shall utilize 304 stainless steel sleeves where approved. The Contractor shall determine the outside diameter of the existing main before ordering the sleeve. Test plug (3/4" NPT) shall be provided on sleeves.

- B. Tapping Sleeves shall be manufactured by Ford: FAST, Mueller: H-30455, Romac SST, or Smith Blair: #663.
- C. Steel Tapping Sleeves
 - 1. Sleeves shall be fabricated of minimum 3/8" stainless steel meeting ASTM A285 Grade C or ASTM A-36. Outlet flange shall meet AWWA C-207, Class "D" ANSI 150 lb. drilling and be properly recessed for the tapping valve. Nuts, bolts, and washers shall be 304 stainless steel. Gasket shall be synthetic rubber. Sleeve shall have manufacturer applied fusion bonded epoxy coating, minimum 12 mil thickness. Sleeves shall be rated at minimum 150 psi working pressure.
 - 2. Steel Tapping Sleeves shall be manufactured by Smith Blair, JCM, Baker, Ford, Water Works, or Mueller.
- D. Tapping Valves
 - 1. Tapping valves, 3 inches through 12 inches, shall be resilient seat gate valves as specified above except as modified herein.
 - 2. End Configurations:
 - a. Tapping sleeve side: Flanged meeting MSS SP-60 ANSI 16.1 drilling and AWWA C-110 with centering ring.
 - b. Outlet side: Mechanical joint conforming to AWWA C-111.
 - 3. Tapping valves shall be manufactured by Mueller: T-2360-16, M&H: #4751, American Flow Control: Series 2500, Clow: F-5093, Kennedy: #950-X, Waterout: Series 800, U.S. Pipe: Metroseal 250, American AVK.

2.07 POLYETHYLENE TUBING

- A. Polyethylene tubing, 3/4" to 2" diameter, for water service lines shall be municipal service tubing, copper tube sized and approved by the NSF for use in transmitting fluids for human consumption. The PE materials for tubing shall be blue in color and designed for a hydrostatic design stress of 800 psi for water at 23 degrees C (73.4 degrees F). Tubing shall be DR 9, material specification PE 3408, and conform to the requirements of AWWA C901 and ASTM Designation D2737. Tubing shall be manufactured by Endot, Endopure.

2.08 CORPORATION STOPS

- A. Corporation stops shall be designed and manufactured in accordance with AWWA C-800, latest edition. Inlet threads shall be AWWA-taper thread (CC). Outlet shall be fitted with connections to suit connecting pipe or tube. Provide insert stiffeners for plastic tubing and PE pipe.
- B. Corporation stops shall be manufactured by Ford FB-1000 (1" corp stop: F1100-4), or Mueller: H-15008, H-15013).

2.09 CURB STOP

- A. Curb stop shall be constructed of bronze conforming to AWWA C-800 (ASTM B62). O-rings and seats shall be Buna-N rubber. Inlet and outlet connections shall be suitable for use with connecting pipe, tubing, yoke or meter as applicable.
- B. Plastic insert stiffeners shall be provided for plastic tubing and PE pipe as manufactured by Mars Part Nos. 090970WH and 090972WH.
- C. Curb stop shall be manufactured by Ford. Meter valve shall be manufactured by Ford Single $\frac{3}{4}$ ", B43-342W, Single 1", B43-344W, Double Service/Branch UAV43-42W.

2.10 SERVICE SADDLES

- A. Service saddles shall be of double strap type and suitable to 150 psi working pressure, with 2-inch outlet. Outlets shall be AWWA tapered thread (CC) for corporation stops or IP thread for gate valves. Brass nipple required for connecting gate valve to saddle. Gaskets shall be Buna-N rubber (ASTM-D200 80 MS BG506) or neoprene. Straps shall be flattened to provide wider bearing surface.
- B. Iron Saddles: Body to be ductile iron. Nuts, washers, and straps shall be AISA Type 304 Stainless Steel.
- C. Brass Saddles: Body and nuts constructed of brass alloy per ASTM B-62 and AWWA C-800. Strap material to be high quality silicone bronze.
- D. Service saddles shall be manufactured by Ford. 2" and smaller shall be Ford: 402.

2.11 AIR RELEASE AND VACUUM RELEASE VALVES

A. Potable Water Air Release Valve

1. Design: Single body, single orifice to allow entrained air to escape line. Compound lever mechanism actuated by a float to prevent water from escaping.
2. Materials:
 - a) Body: Reinforced Nylon (PV) ASTM A48 CL 35B Cast Iron (CV)
 - b) Sleeve: NSF 61 Certified Reinforced Nylon
 - c) Float and Stem: NSF 61 Certified Foamed Polypropylene
 - d) Rolling Seal: NSF 61 Certified EPDM
 - e) Other Internals: Stainless Steel ASTM A296, T316
 - f) Bolts and Nuts: Stainless Steel ASTM A744, CF8M (NSF)
3. Isolation Valve: Resilient seated gate valve.
4. Accessories: Vacuum guarding, out only attachment (one way valve).
5. Working Pressure: Valve shall be for working pressures from 3-150 psi.
6. Valve shall have a standard 2-inch NPT inlet and outlet ports, unless otherwise shown on the drawings.
7. Manufacturer: ARI D-040-PV (Vault Installations) or ARI D-040-CV (Exposed to Atmosphere - steel w/fusion bonded coating).

B. Sewage Service (Force Main)

1. Sewage Combination Air Valves (SCAV)
 - a. Combination Air Release and Air and Vacuum valve for sewage industrial wastewater, and stormwater.
 - b. The valve will be ARI D-025 for below grade and ARI S-020 for above grade installations, specially designed to operate with liquids carrying solid particles, such as wastewater, which should not be expelled to the environment.
 - c. The valve will have a conical shaped body with a cam lock back flush attachment as part of the working mechanism.
 - d. The stainless steel float will be spring loaded to allow for system vibrations and turbulence.
 - e. The operating mechanism shall be non-metallic and corrosion resistant.
 - f. The working pressures will be 3-100 psi.

- g. The valve will be of the type that releases large amounts of air, gases, and vapor during the filling of the system and admits large amounts of air when the system drains to prevent vacuum damage to pipeline and accessories.
 - h. The valve must release accumulated air from the system while the system operates under pressure, while maintaining an air pocket separation between the liquid and the working mechanism. The air release orifice will be 0.0186 inch² and will be an integral extension of the air and vacuum orifice, which shall be rectangular in shape.
 - i. Isolation Valve: Resilient seated gate valve or, if approved in writing by the Engineer, a ball valve per Section 15050, 2.16. Ball valve shall be same size as threaded opening.
 - j. Manufacturer: ARI: D-025P (plastic for vault installations), ARI: S-020 (steel w/fusion bonded coating above grade) appropriately sized for intended service or as indicated on the Drawings.
- C. Valve Vault Frame and Cover shall be manufactured by U.S. Foundry, Part No. USF #663-AB-MB (CRA only), USF #663-AB-MK or by Rusco.
- D. Above ground air release valve enclosures with pin allen locking mechanism, shall be manufactured by Water Plus, Part No. 30 (131632) or No. 40 (171730).

2.12 TEMPORARY SAMPLING STATION:

- A. Temporary sampling stations shall be a combination of corporation stop, polyethylene tubing, and curb stops. Each test service shall terminate above grade with a curb stop and smooth nosed sampling tap. Temporary sampling stations shall be properly abandoned after successful testing.

2.13 HYDRANT ASSEMBLIES

- A. All hydrant assemblies shall be designed in accordance with AWWA C502, latest edition with a minimum working pressure of 150 psi.
- B. Hydrant assemblies shall be manufactured by American-Darling, Model No. B84-B-6 for commercial areas and Model No. B84-B-5 for residential areas.
- C. Inlet connection shall be 6-inch mechanical joint with a main valve opening not less than 5¼ inches. Two (2) 2½-inch hose connections and one (1) 4½-inch pumper connections shall be provided. 2½ -inch hose connection threads shall be 60-degree V threads, 7½ threads to the inch, with an external outside diameter (OD) of 3½ inches per the National Standard. The 4½-inch pumper connection threads shall be four threads to the inch with an external OD of 5¾ inches per the National Standard.

- D. The working parts shall be bronze and open counterclockwise and removable from the top of the hydrant while in place.
- E. Hose caps shall be chained to hydrant barrel fitted with nuts similar to hydrant operating nut. The barrel length shall be sufficient for pipe cover as indicated on Contract Drawings. The stand pipe shall have breaking ring or breakable sections. The hydrant shall be constructed in at least two (2) sections bolted together with a renewable O-ring stem seals.
- F. Hydrant barrels shall receive one coat of primer and finish coat shall be two (2) coats of safety yellow equal to Porter/Int'l 2410 Alkyd Gloss, Koppers Glamortex 501 Enamel Tnemec-Gloss, Alkyd Ind. Enamel, or approved equal.

2.14 LINE STOPS

- A. Line stops shall be designed and manufactured in accordance with AWWA C515, latest edition. Line stops shall consist of a resilient seated insertion valve with a minimum working pressure of 200 psi. Valves shall be iron body resilient seat type with O-ring stem seals. The valve stem, stem nut, glands, and bushings shall be bronze. A 2-inch square wrench nut and a non-rising stem shall be provided. Interior ferrous surfaces of valve, except for finished or bearing surfaces, shall be coated with a fusion bonded or thermo-setting epoxy coating in accordance with AWWA C550, latest edition. Coating shall be holiday-free, NSF approved with a minimum thickness of 10 mils. Surfaces shall be clean, dry, and free from rust and grease before coating. Exterior surfaces shall be coated as specified hereinafter.
- B. Line stops shall be manufactured by Occlude, JCM, or approved equal.

2.15 PVC BALL VALVES

- A. All PVC ball valves 1/2-inch through 4-inch in size shall be of one piece capsule type manufactured of Type 1, Grade 1 PVC. Ball valves shall be true union design with two-way blocking capability and shall have solvent welded socket or NPT threaded ends.
- B. Ball valves shall be supplied with ABS lever operating handles. All PVC ball check valves shall have Teflon seats and Viton O-ring seals, and shall be designed for a 150 psi water working pressure at 120°F.
- C. PVC ball valves shall be of Type 1 Grade 1 PVC and shall have union ends on both sides of the valves. Ball valves shall be rated for a working pressure of 150 psi at 120° F.

- D. All PVC ball valves shall be manufactured by Asahi/America, Celanese Piping Systems, Inc., Chemtrol, Plastiline, Inc., or an equal approved by the Engineer.

2.16 MISCELLANEOUS ITEMS

- A. Other items necessary for the complete installation and not specified herein shall conform to the details and notes shown on the Drawings. All minor items implied, usually included, or required for the construction of a complete operating system shall be installed whether shown on the Drawings or not.

PART 3 - EXECUTION

3.01 INSPECTION

- A. All pipe, fittings, valves, and other material shall be subject to inspection and approval by the Engineer after delivery, and no broken, cracked, imperfectly coated, or otherwise damaged or unsatisfactory material shall be used. When a defect or crack is discovered, the injured portion shall not be installed. Cracked pipe shall have the defect cut off at least 12 inches from the break in the sound section of the barrel.

3.02 GENERAL INSTALLATION REQUIREMENTS

- A. Excavation, backfill, and compaction shall conform to the provisions of Division 2. Upon satisfactory installation of the pipe bedding material as specified in Division 2, a continuous trough for the pipe barrel and recesses for the pipe bells or couplings shall be excavated by hand digging. When the pipe is laid in the prepared trench, true to line and grade, the pipe barrel shall receive continuous, uniform support and no pressure will be exerted on the pipe joints from the trench bottom.
- B. Cover for underground piping shall not be less than that indicated on the Drawings. The minimum cover for pipe shall be 36 inches. In areas where other piping conflicts preclude the maximum cover desired, the piping shall be laid to provide the maximum cover obtainable.
- C. Pipe, fittings, valves, and accessories shall be installed as shown or indicated on the Drawings.
- D. All connections to existing piping systems shall be made as shown or indicated on the Drawings after consultation and cooperation with authorities of the Owner. Some such connections may have to be made during off-peak hours (late night or early morning).

- E. Pipe Joint Deflection: Whenever it is desirable to deflect pipe joints to avoid obstructions or to maintain required alignment, the amount of the joint deflection shall not exceed 80 percent of the maximum limits allowed by the pipe manufacturer.
- F. In preparation for pipe installation, placement (stringing) of pipe should be as close to the trench as practical on the opposite side of the trench from the excavated material. The bell ends of the pipe should point in the direction of the work progress.
- G. Pipe and fittings shall be laid accurately to the lines and grades indicated on Drawings or required. Where grades for the pipeline are not indicated on the Drawings, maintain a uniform depth of cover with respect to finish grade. Care shall be taken to insure a good alignment both horizontally and vertically and to give the pipe a firm bearing along its entire length. Any pipe which has its grade or joint disturbed after laying shall be taken up and relaid.
- H. All pipe and fittings shall be cleared of sand, dirt, and debris before laying. All precautions shall be taken to prevent sand, dirt, or other foreign material from entering the pipe during installation. If necessary, a heavy, tightly woven canvas bag of suitable size shall be placed over each end of the pipe before lowering into the trench and left there until the connection is made to the adjacent pipe. Any sand, dirt, or other foreign material that enters the pipe shall be removed from the pipe immediately. Interior of all pipe and fittings shall be kept clean after installation until accepted in the complete Work.
- I. Any time that pipe installation is not in progress, the open ends of pipe shall be closed by a watertight plug or other method approved by the Engineer. Plugs shall remain in pipe ends until all water is removed from the trench. No pipe shall be installed when trench conditions are unsuitable for such work, including standing water, excess mud, or rain.
- J. After pipe has been laid, inspected, and found satisfactory, sufficient backfill shall be placed along the pipe barrel to hold the pipe securely in place while conducting the preliminary hydrostatic test. No backfill shall be placed over the joints until the preliminary test is satisfactorily completed, leaving them exposed to view for the detection of visible leaks.
- K. Upon satisfactory completion of the hydrostatic test, backfilling of the trench shall be completed.
- L. Above-ground and Exposed Piping: Piping shall be cut accurately to measurements established at the job site and shall be worked into place without springing or forcing, properly clearing all equipment access areas and openings. Changes in sizes shall be made with appropriate reducing fittings. Pipe

connections shall be made in accordance with the details shown and manufacturer's recommendations. Open ends of pipe lines shall be properly capped or plugged during installation to keep dirt and other foreign material out of the system. Pipe supports and hangers shall be provided where indicated or as required to insure adequate support of the piping.

- M. Existing water services shall remain in service until all new pipe construction and clearances are completed. Contractor shall notify before abandoning existing water mains.

3.03 INSTALLATION OF PVC PIPE

A. Storage and Handling:

1. PVC pipe shall be delivered to the site in unbroken bundles packaged in such manner as to provide protection against damage. When possible, pipe should be stored at the job site in the unit packages until ready for use. Packaged units shall be handled using a forklift or a spreader bar with fabric straps. Packaged units shall not be stacked at the job site higher than two units high.
2. When it is necessary to store PVC pipe for long periods of time, exposure to direct sunlight shall be prevented by covering the pipe with an opaque material. Adequate air circulation above and around the pipe shall be provided as required to prevent excessive heat accumulation. PVC pipe shall not be stored close to heat sources of hot objects such as heaters, fires, boilers, or engine exhaust. Pipe gaskets shall be protected from excessive exposure to heat, direct sunlight, ozone, oil, and grease. The interior and all sealing surfaces of pipe, fittings, and other appurtenances shall be kept clean and free of dirt and foreign matter.
3. Care shall be taken in handling and laying pipe and fittings to avoid severe impact blows, crushing, abrasion damage, gouging, or cutting. Pipe shall be lowered, not dropped, from trucks or into trenches. All cracked, damaged or defective pipe and fittings, or any length of PVC pipe having a gouge, scratch, or other permanent indentation of more than 10 percent of the wall thickness in depth, shall be rejected and removed at once from the Work and replaced with new acceptable pipe at no additional cost to the Owner.

- B. Field Cutting PVC Pipe: Field cutting of pipe shall be done in a neat workmanlike manner without creating damage to the pipe. The pipe shall be cut square with a fine-toothed hand or power saw or other cutter or knife designed for use with plastic pipe. Prior to cutting, the pipe shall be marked around its entire

circumference or a square-in vise shall be used to ensure the pipe end is cut square. Remove burrs by smoothing edges with a knife, file, or sandpaper.

- C. Field Cutting Bell and Spigot PVC Pipe: Bevel the cut end of the pipe using a pipe beveling tool, wood rasp, or portable sander to prevent damage to the gasket during joint assembly. A factory-finished beveled end should be used as a guide to ensure proper beveling angle and correct depth of bevel. Round off any sharp edges on the leading edge of the bevel with a knife or file.
- D. Laying PVC Pipe:
 - 1. Pipe Bedding: Bedding for PVC pipe shall be as specified in Division 2 using granular pipe bedding material.
 - 2. All PVC pipe shall be laid in accordance with the pipe manufacturer's published installation guide, the AWWA Manual of Practice No. M23 "PVC Pipe - Design and Installation" and the Uni-Bell Plastic Pipe Association installation recommendations.
- E. PVC Pipe Joint Assembly for Rubber Gasketed Bell and Spigot Pipe:
 - 1. The PVC bell and spigot joint shall be assembled in accordance with the pipe manufacturer's installation instructions, ASTM D2774, and AWWA Manual M23. Clean the interior of the bell, the gasket, and the spigot of the pipe to be jointed with a rag to remove any dirt or foreign material before assembling. Inspect the gasket, pipe spigot bevel, gasket groove, and sealing surfaces for damage or deformation.
 - 2. Lubricate the spigot end of the pipe with a lubricant supplied or specified by the pipe manufacturer for use with gasketed PVC pipe in potable water systems. The lubricant should be supplied as specified by the pipe manufacturer. After the spigot end is lubricated, it must be kept clean and free of dirt and sand. If dirt and sand adhere to the lubricated end, the spigot must be wiped clean and relubricated.
 - 3. Insert the spigot into the bell so that it contacts the gasket uniformly. Align the pipe sections and push the spigot end into the bell until the manufacturer's reference mark on the spigot is flush with the end of the bell. The pipe should be pushed into the bell using a bar and wood block. The joint shall not be assembled by "stabbing" or swinging the pipe into the bell, nor shall construction machinery be used to push the pipe into the bell.
 - 4. If undue resistance to insertion of the spigot end is encountered or if the reference mark does not reach the flush position, disassemble the joint and

check the position of the gasket. If the gasket is twisted or pushed out of its seat, inspect the components, repair or replace damaged items, clean the components, and repeat the assembly steps. Be sure the pipe is in proper alignment during assembly. If the gasket was not out of position, check the distance between the spigot end and the reference mark and relocate the mark if it is out of position.

F. PVC Pipe Joint Assembly for Threaded and Solvent Welded Pipe:

1. All threaded and solvent welded joints shall be made watertight in accordance with ASTM D2855, ASTM D2564, and AWWA Manual M23. All pipe cutting, threading, and jointing procedures for threaded and solvent welded PVC pipe joints shall be in strict accordance with the pipe and fitting manufacturer's printed installation instructions. Thread lubricant for threaded joints shall be Teflon tape only.
2. At threaded joints between PVC and metal pipes, the metal side shall contain the socket end and the PVC side the spigot. A metal spigot shall not, under any circumstances, be screwed into a PVC socket.

- B. All glands, clamps, bolts, nuts, studs, and other uncoated parts of fitting joints for underground installation shall be coated with two coats, 10 mils DFF per coat, of coal tar epoxy equal to Kop-Coat Bitumastic No. 300-M.

3.04 INSTALLATION OF VALVES

- A. Valves of the size and type shown on the Drawings shall be set plumb and installed at the locations indicated on the Drawings. Valves shall be installed in accordance with manufacturer's installation instructions and with the details shown on the Drawings.
- B. Valves shall be installed such that they are supported properly in their respective positions, free from distortion and strain. Valves shall be installed such that their weight is not borne by pumps and equipment that are not designed to support the weight of the valve.
- C. Valves shall be carefully inspected during installation; they shall be opened wide and then tightly closed and the various nuts and bolts shall be tested for tightness. Special care shall be taken to prevent any foreign matter from becoming lodged in the valve seat. Check and adjust all valves for smooth operation.
- D. Install valves with the operating stem in either horizontal or vertical position.
- E. Allow sufficient clearance around the valve operator for proper operation.

- F. Clean iron flanges by wire brushing before installing flanged valves. Clean carbon steel flange bolts and nuts by wire brushing, lubricate threads with oil or graphite, and tighten nuts uniformly and progressively. Clean threaded joints by wirebrushing or swabbing. Apply Teflon joint compound or Teflon tape to pipe threads before installing threaded valves. Joints shall be watertight.
- G. For buried valves, a valve box shall be centered accurately over the operating nut and the entire assembly shall be plumb. The tops of valve boxes shall be adjusted to the proper elevation as specified below and as shown on the Drawings.
1. In paved areas, tops of valve box covers shall be set 1/4-inch below pavement. Following paving operations, an 18-inch square shall be neatly cut in the pavement around the box and the paving removed. The top of the box shall then be adjusted to the proper elevation and an 18-inch square by 6-inch thick concrete pad poured around the box cover. Concrete pads in traffic areas shall be reinforced with No. 4 reinforcement bars as shown on the Drawings. Concrete for the pad shall be 3,000 psi compressive strength at 28 days.
 2. In unpaved areas, tops of valve box covers shall be set 2 inches above finished grade. After the top of the box is set to the proper elevation, a 18-inch square by 6-inch thick concrete pad shall be poured around the box cover. Concrete for the pad shall be 3,000 psi compressive strength at 28 days.
 3. The concrete pad for the valve box cover shall have a 3-inch diameter, bronze identification disc embedded in the concrete surface as shown on the Drawings. The bronze identification disc shall be as specified in Section 09905 and shall have the information as shown on the Drawings neatly stamped on it.
- H. Valves shall be tested hydrostatically, concurrently with the pipeline in which they are installed. Protect or isolate any parts of valves, operators, or control and instrumentation systems whose pressure rating is less than the pressure used for the pressure test(s). If valve joints leak during pressure testing, loosen or remove the nuts and bolts, reseal or replace the gasket, reinstall or retighten the bolts and nuts, and hydrostatically retest the joints.

3.05 HYDROSTATIC PRESSURE AND LEAKAGE TESTING - See Section 15044

3.06 OBTAINING POTABLE WATER FOR TESTING AND FLUSHING

- A. The potable water supply shall be protected with an air gap and a reduced pressure principle backflow preventer approved by the Owner, if potable water is used for testing and flushing.

- B. To obtain potable water service during construction, the Contractor shall be required to install a temporary water meter. The piping, fittings, backflow preventer, and appurtenances required for the temporary construction water service shall be supplied by the Contractor.
- C. The Contractor shall coordinate with the Owner for temporary construction water service connection, usage, and flushing.

3.07 MAIN CLEANING AND FLUSHING

- A. Following the hydrostatic and leakage tests, all the mains constructed under this contract shall be cleaned and flushed to remove sand, loose dirt, and other debris. Flushing velocity shall be a minimum of 2.5 fps. Flushing shall continue until clean water flows from the main. However, the Contractor shall endeavor to use the minimum amount of flushing water required to complete the work. To increase the efficiency of the cleaning and flushing operation, the Contractor shall use a pipeline pigging device of the proper size designed to clean the intended pipeline. The pigging device shall be capable of turning through a standard 90 degree MJ bend. The type of pipeline pigging device and the method of operation shall be approved by the Engineer.
- B. Upon completion of testing for the gravity drain line system, drain lines shall be flushed to remove dirt, sand, stones, and other debris which may have entered the lines during construction and settled out in the lines. Materials and debris flushed from the drain lines shall be removed from a downstream lift station and disposed of at an approved disposal area.
- C. Temporary blowoffs may be required for the purpose of flushing mains. Temporary blowoffs shall be installed as close as possible to the ends of the main being flushed. Blowoffs installed on the main shall be the same diameter as the main. Temporary blowoffs shall be removed and plugged after the main is flushed. All costs for installing and removing temporary blowoffs shall be at no additional cost to the Owner.
- D. The Owner shall be notified at least 72 hours prior to flushing mains.
- E. Blowoffs and temporary drainage piping used for flushing shall not be discharged into any gravity sewer or pumping station wetwell. The Contractor shall obtain prior approvals from the Engineer and the Owner as to the methods and locations of flushing water discharge.

3.08 FINAL DISINFECTION FOR POTABLE WATER PIPELINES

- A. Before any portion of the potable water piping system is to be placed in service, it shall be disinfected; and its disinfection shall be demonstrated by bacteriological tests conducted in accordance with "Standard Methods for Examination of Water and Sewage" for the coli-aerogenes group, by an approved laboratory, acceptable to the Engineer and the County Health Department.
- B. All pipe, fittings, valves, and all other appurtenances installed for potable water lines shall be disinfected prior to being placed in service. Disinfection procedures shall be approved by the Engineer and shall be in conformance with ANSI/AWWA C651, latest revision.
- C. Pipe subjected to contaminating materials shall be treated in a manner approved by the Engineer. Should such treatment fail to remove contaminants from the pipe, contaminated sections of pipe shall be replaced with new uncontaminated pipe at no additional cost to the Owner.
- D. Disinfection of a completed line shall be accomplished using the following procedure:
 - 1. All potable water piping, fittings, valves, and appurtenances shall be disinfected with a chlorine solution with a sufficient concentration such that the initial chlorine concentration in the water line shall be a minimum of 50 mg/l available chlorine, at any point in the line.
 - 2. Chlorine used for the purpose of disinfection shall be high test granular calcium hypochlorite which contains approximately 65 to 70 percent available chlorine by weight. The calcium hypochlorite shall be stored in a cool, dry, and dark environment, prior to its use, to minimize deterioration. The dry calcium hypochlorite will be used to makeup a high concentration chlorine solution which will be used for disinfection. Under no circumstances will undiluted, dry calcium hypochlorite be placed in the pipeline to be disinfected.
 - 3. Water from the existing, in-service water line shall be made to flow at a constant, slow rate into the water line to be disinfected. Chlorine solution shall be injected or pumped at a regulated rate into the new main, at a point not more than 10 feet downstream from the beginning of the new water main. The method of tapping the water main for the chlorine injection point and the location of the tap shall be approved by the Engineer.
 - 4. Chlorine solution shall be circulated in the water main by opening the water control valve and systematically manipulating valves and blowoffs.

5. Water service lines shall be disinfected in a similar manner as that for water mains, including corrective measures, by methods acceptable to the Engineer.
 6. Chlorine solution shall remain in the water lines for no less than 24 hours, but longer than 24 hours if directed by the Engineer.
 7. Extreme care shall be exercised at all times to prevent concentrated chlorine solution from entering existing water mains.
- E. After 24 hours, the free residual chlorine concentration in the water line at the pipe extremities shall be at least 25 mg/l; if not, the water lines shall be re-disinfected as described above.
- F. Final flushing of lines may proceed after 24 hours, provided the free residual chlorine analysis is satisfactory. Flushing shall be continued until a chlorine residual test shows that lines contain only the normal chlorine residual. Prior to flushing water with high chlorine concentrations, obtain approvals from the Engineer and the Owner as to the methods and locations of discharge.
- G. Following disinfection and thorough flushing of the water lines, as specified herein, the Contractor shall furnish all labor and materials required to obtain samples of water from established points of the water line in suitable sterilized containers obtained from the County Health Department or approved analytical laboratory. Contractor to pay for all required testing. Two (2) series of successive samples shall be obtained at each established sampling points. Each test series will require two samples at each sampling point. The period between each series of samples shall be a minimum of 24 hours. Samples shall be delivered by the Contractor to the County Health Department or approved analytical laboratory for bacteriological examination. Samples shall be collected in conformance with the County Health Department standards and lab testing schedule. Prior to collecting samples, the Contractor shall notify the Engineer and the Owner who will have representatives present during sample collection.
- H. Bacteriological test results will be available approximately 48 to 72 hours after samples are submitted. If tests results are unsatisfactory, the Contractor shall immediately rechlorinate and retest the water lines and proceed with such corrective measures as are necessary to secure disinfected lines. All services shall be rechlorinated if the lines are rechlorinated. The water lines shall be re-disinfected and retested, at the Contractor's expense, until approved by the Engineer, and the County Health Department.
- I. At satisfactory completion of the bacteriological test requirements, potable water lines shall be placed in service in a manner approved by the Engineer and the

Owner. Contractor shall notify the Engineer and the Owner 72 hours prior to placing lines in service.

3.09 CONNECTION TO EXISTING WATER SYSTEMS

- A. The Contractor shall coordinate making connection of the new mains to mains which are in service at the time of construction with the Owner. The Contractor shall not connect to existing facilities unless the Engineer and a representative of the Owner are present. The Engineer and the Owner shall be notified at least 48 hours prior to the time connection is desired.

- B. Operation of all system valves shall be the responsibility of the Owner's personnel only. At no time shall the Contractor operate any system valves. System valves shall be defined as any valve which has main pressure against either side of the valve. The Contractor shall notify the Owner to request that a valve be operated, at least 48 hours prior to the time operation is required.

END OF SECTION

copy

<p>SECTION 00300</p> <p>BID RESPONSE FORM</p> <p>BID NO. ITB # PW 13-05</p> <p>Normandy Boulevard (Sec. B)</p> <p>Saxon Blvd to Fort Smith Blvd</p>
--

DATE SUBMITTED: February 28, 2013

PROJECT IDENTIFICATION: **City of Deltona**
ITB # PW 13-05
Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd

NAME OF BIDDER: Breen Construction Services Inc.

BUSINESS ADDRESS: 205 West State Road 434, Suite D, Winter Springs, FL 32708

TELEPHONE NUMBER: (407) 542-3961

CONTRACTOR'S FLORIDA LICENSE NO.: CGC 058472

THIS BID IS SUBMITTED TO: **City of Deltona**
Public Works Division
255 Enterprise Road
Deltona, Florida 32725

1. In accordance with the foregoing terms, conditions and specifications, the undersigned bidder, having become familiarized with the conditions affecting the cost of the work and with all requirements of the proposed Bid Documents, and duly issued Addenda to said documents, as acknowledged herein, proposes to furnish and perform all things required in labor, material, necessary tools, expendable equipment, and all services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined and carefully studied the Bidding Documents and the following Addendum receipt of which is hereby acknowledged:

No. <u>1</u>	Dated <u>1/30/2013</u>	No. <u>5</u>	Dated <u>2/27/2013</u>
No. <u>2</u>	Dated <u>2/05/2013</u>	No. <u>6</u>	Dated <u>2/27/2013</u>
No. <u>3</u>	Dated <u>2/12/2013</u>	No. _____	Dated _____
No. <u>4</u>	Dated <u>2/18/2013</u>	No. _____	Dated _____

b. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bid Documents, and Addendum.

ADDENDUM # 1
CITY OF DELTONA
BID # PW 13-05
January 30, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Until further notice:

- Questions regarding this bid shall be addressed in writing to:

-

Kate Krauss
Purchasing Manager
Email: kkrauss@deltonafl.gov
Fax: 386-878-8571

- Questions will not be accepted over the phone.
-
- Bidders are asked to acknowledge receipt of this addendum by signing below and returning the signed addendum with their bid submittal. Failure to do so may subject the bidder to disqualification.

Vendor Acknowledgement of Receipt of Addendum:



Signature

Return a signed copy of this addendum with your bid

Matthew Breen, President
Breen Construction Services Inc.

ADDENDUM # 2

CITY OF DELTONA

BID # PW 13-05

February 5, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is to delete the current bid forms, pages 3-6 of Section 00300, and replace them with the bid forms that are attached to this addendum. The new bid form is also being uploaded to Demandstar in Excel format for your convenience in completing it. Use only these bid forms when submitting your bid. All other pages still apply.

Failure to use the revised bid forms shall deem your bid non-responsive.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Breen Construction Services Inc.

NAME OF BUSINESS

BY: 

SIGNATURE/DATE

Matthew Breen, President

NAME & TITLE, TYPED OR PRINTED

205 West State Road 434, Suite D

MAILING ADDRESS

Winter Springs, Florida 32708

CITY, STATE, ZIP CODE

**ADDENDUM # 3
CITY OF DELTONA
BID # PW 13-05
February 12, 2013**

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

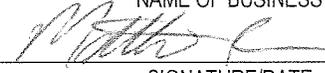
This addendum is change the bid due date to Thursday, February 28, 2013 at 2:00 p.m. at the Water Dept. located at 255 Enterprise Road, Deltona, Florida 32725.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Breen Construction Services Inc.

NAME OF BUSINESS

BY: 

SIGNATURE/DATE

Matthew Breen, President

NAME & TITLE, TYPED OR PRINTED

205 West State Road 434, Suite D

MAILING ADDRESS

Winter Springs, Florida 32708

CITY, STATE, ZIP CODE

ADDENDUM # 4
CITY OF DELTONA
BID # PW 13-05
February 18, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Tetra Tech Plans:

The Tetra Tech Water Main Improvement Plans are for bid preparation purposes.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Breen Construction Services Inc.

NAME OF BUSINESS



BY SIGNATURE / DATE

Matthew Breen, President

NAME & TITLE, TYPED OR PRINTED

205 West State Road 434, Suite D

MAILING ADDRESS

Winter Springs, Florida 32708

CITY, STATE, ZIP CODE

**ADDENDUM # 5
CITY OF DELTONA
BID # PW 13-05
February 27, 2013**

NORMANDY BOULEVARD – SECTION “B” ROADWAY IMPROVEMENTS

This addendum is to announce the extension of the bid due date of this solicitation.

The bid due date has been changed. The bid due date is now Monday, March 4, 2013 at 2:00 p.m. This is to allow for an additional addendum to be posted identifying additional changes to the scope of work. It is anticipated that addendum # 6 will be posted within the next 24 hours.

All prospective bidders are hereby instructed not to contact the Engineer of Record or any member of the City of Deltona Commission, City Manager, or City of Deltona Staff members other than the noted contact person regarding this Invitation to Bid or their bid proposal at any time during the solicitation or award process. Any such contact shall be cause for rejection of your bid proposal.

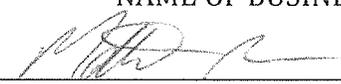
All inquiries are to be directed to the Purchasing Agent for the Public Works Division at the City of Deltona. Contact for this solicitation is: Brian Boehs, Purchasing Agent. Email address is bboehs@deltonafl.gov. Phone is 386-878-8955.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Breen Construction Services Inc.

NAME OF BUSINESS

BY: 

SIGNATURE/DATE

Matthew Breen, President

NAME & TITLE, TYPED OR PRINTED

205 West State Road 434, Suite D

MAILING ADDRESS

Winter Springs, Florida 32708

CITY, STATE, ZIP CODE

**ADDENDUM #6
CITY OF DELTONA
BID #PW 13-05
February 27, 2013**

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Revised Drawings: Tetra Tech Plans

Tetra Tech Drawing G002 –
Please insert the following notes:

General Notes for Work Conducted within Volusia County R/W:

1. Driving and/or Staging of construction vehicles is not permitted on any sidewalks in the Right-Of-Way. Any damage to sidewalks will be repaired and/or replaced in like kind by the Contractor.
2. Any road, lane or sidewalk closure requires review and approval in advance and a seven (7) day minimum notice to Volusia County Traffic Operations (386-239-6535).
3. All existing sidewalks within County Rights of Way shall remain open or provision of a temporary walkway shall be provided in accordance with version 2010 of Florida Department of Transportation Standard Index #660 "Mid Block Closure with Temporary Walkway" unless otherwise approved by the County Traffic Engineer. Please Note that Index #660 must be shown on the use permit plans.
4. No trench or excavation shall be left open or unattached overnight, unless the excavations within the clear zone of the roadway meet the drop off criteria of the 2010 Florida Department of Transportation Design Standards (Index 600) "Of Properly Barricaded and Secured Excavations", including all equipment and materials.
5. All disturbed areas within the County Right of Way shall be sodded. Seed and Mulch is not acceptable.

Tetra Tech Drawing C503 –
Detail 1 and Detail 2 have been revised.

**ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED**

Breen Construction Services Inc.

NAME OF BUSINESS



BY SIGNATURE / DATE

Matthew Breen, President

NAME & TITLE, TYPED OR PRINTED

205 West State Road 434, Suite D

MAILING ADDRESS

Winter Springs, Florida 32708

CITY, STATE, ZIP CODE

- c. All Bid Items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Bid Documents and addendum.
 - d. Bidder declares their bid submittal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder submits the following unit prices to perform all the work as required by the Bid documents and Specifications for the **City of Deltona, Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd.**

All bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place and ready for operation in the manner contemplated by the Bid documents and addendum.

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
101-1	Mobilization	LS	1	\$82,000.00	\$ 82,000.00
102-1	Maintenance of Traffic	LS	1	\$17,300.00	\$ 17,300.00
102-3	Commercial Material for Driveway Maintenance	CY	500	\$18.00	\$ 9,000.00
104-100	Erosion Control Measures	LS	1	\$29,000.00	\$ 29,000.00
110-1-1	Clearing & Grubbing	AC	9	\$9,150.00	\$ 82,350.00
110-7-1	Mailbox, F&I, Single	EA	23	\$100.00	\$ 2,300.00
120-1	Regular Excavation	CY	16,000	\$8.75	\$ 140,000.00
120-6	Embankment	CY	1,500	\$2.75	\$ 4,125.00
160-4	Stabilization, Type B	SY	17,000	\$10.40	\$ 176,800.00
285-70-9	Optional Base Group 9	SY	12,050	\$18.00	\$ 216,900.00
334-1-12	Type SP Structural Course (Traffic Level B)	TN	1,326	\$100.00	\$ 132,600.00
334-7-30	Friction Course (FC-9.5) (Rubber)	TN	663	\$125.00	\$ 82,875.00
400-1-2	Conc. Class I, Endwalls	CY	9	\$444.00	\$ 3,996.00
400-1-11	Conc. Class I, Retaining Walls	CY	0	\$500.00	\$ -
425-1-311	Inlets(Curb)(Type P-1)(<10')	EA	22	\$4,025.00	\$ 88,550.00
425-1-321	Inlets(Curb)(Type P-2)(<10')	EA	5	\$4,250.00	\$ 21,250.00
425-1-521	Inlets(DT Bot)(Type C)(<10')	EA	1	\$2,235.00	\$ 2,235.00
425-1-551	Inlets(DT Bot)(Type E (Special Design)	EA	2	\$5,400.00	\$ 10,800.00
425-2-41	Manholes (P-7)(<10')	EA	1	\$2,500.00	\$ 2,500.00
430-171-118	Pipe Culv (Opt Mat)(Round)(18"SS)	LF	1,143	\$52.00	\$ 59,436.00
430-171-124	Pipe Culv (Opt Mat)(Round)(24"SS)	LF	1,125	\$59.00	\$ 66,375.00
430-171-130	Pipe Culv (Opt Mat)(Round)(30"SS)	LF	567	\$68.00	\$ 38,556.00
430-171-142	Pipe Culv (Opt Mat)(Elliptical)(42"SS)	LF	77	\$110.00	\$ 8,470.00
430-982-125	Mitered End Section, Optional Round, 18" CD	EA	3	\$425.00	\$ 1,275.00
430-982-133	Mitered End Section, Optional Round, 30" CD	EA	1	\$800.00	\$ 800.00
520-1-10	Curb & Gutter Conc - Type F	LF	5,690	\$12.00	\$ 68,280.00
522-1	Sidewalk Concrete, 4" Thick	SY	2,731	\$26.00	\$ 71,006.00
522-2	Sidewalk Concrete, 6" Thick	SY	1,072	\$36.00	\$ 38,592.00
524-1-29	Concrete Ditch Pavt, Reinforced 4"	SY	127	\$55.00	\$ 6,985.00
530-3-3	Riprap, Rubble and Filter Fabric	TN	20	\$200.00	\$ 4,000.00
570-1-2	Performance Turf Sodding	SY	18,850	\$2.65	\$ 49,952.50
630-1-12	Conduit (F&I)(Underground)	LF	20	\$12.65	\$ 253.00
630-1-14	Conduit (F&I)(Underground-Jacketed)	LF	140	\$17.25	\$ 2,415.00
632-7-1	Cable (Signal)(F&I)	PI	1	\$5,235.00	\$ 5,235.00
634-4-113	Span Wire Assembly (F&I)(Two Wire)(Box)	PI	1	\$3,708.00	\$ 3,708.00
635-1-11	Pull and Junction Boxes (F&I) (Pull Box)	EA	2	\$616.40	\$ 1,232.80
641-2-16	Prestressed Concrete Strain Pole (F&I) (Type P-VI)	EA	2	\$5,485.00	\$ 10,970.00
650-51-313	Traffic Signal (F&I) (3-Section)(1-Way)(Polycarbonate/LED)	AS	8	\$1,937.00	\$ 15,496.00
653-191	Signal Pedestrian (F&I) (LED Countdown)(1- Way)	AS	4	\$787.00	\$ 3,148.00
653-192	Signal Pedestrian (F&I) (LED Countdown)(2- Way)	AS	1	\$1,627.00	\$ 1,627.00
659-101	Signal Head Auxuillaries (F&I)(Backplates 3 Section)	EA	5	\$172.00	\$ 860.00
659-106	Signal Head Auxuillaries (F&I)(Tunnel Visor)	EA	20	\$8.00	\$ 160.00
660-1-103	Loop Detector, Inductive (F&I)(Type 3, 1CH, SS, S)	EA	4	\$273.00	\$ 1,092.00
660-1-104	Loop Detector, Inductive (F&I)(Type 4, 1CH, SS, S)	EA	1	\$273.00	\$ 273.00
660-2-106	Loop Assembly (F&I)(Type F)	AS	5	\$795.00	\$ 3,975.00
665-13	Detector, Pedestrian (F&I)(Detector w/ Sign)	EA	4	\$178.00	\$ 712.00
670-5-410	Traffic Control Assembly (Modify)(NEMA)	AS	1	\$485.00	\$ 485.00
690-10	Traffic Signal Head Assembly, Remove	EA	8	\$29.90	\$ 239.20
690-20	Pedestrian Signal Assembly, Remove	EA	4	\$59.80	\$ 239.20
690-34-1	Complete Pole removal (Deep) Direct Burial)	EA	2	\$2,645.00	\$ 5,290.00
690-80	Span Wire Assembly (Remove)	EA	1	\$362.00	\$ 362.00
690-90	Remove Cabling and Conduit	PI	1	\$362.00	\$ 362.00
690-100	Signal Equipment, Miscellaneous, Remove	PI	1	\$345.00	\$ 345.00
699-1-1	Internally Illuminated Sign (F&I)(Street Name)	EA	4	\$4,214.00	\$ 16,856.00
700-20-11	Sign, Single Post (< 12 SF)	AS	8	\$373.00	\$ 2,984.00
700-20-40	Sign, Existing (Relocate) (Single Post)	AS	3	\$86.25	\$ 258.75

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
700-20-60	Sign, Existing (Remove) (Single Post)	AS	10	\$57.50	\$ 575.00
700-46-21	Sign, Existing (Relocate) (Single Post)	AS	14	\$143.75	\$ 2,012.50
700-48-48	Sign Panel (Relocate)(15 or less SF)	EA	6	\$86.25	\$ 517.50
706-3	Retro-Reflective Pavement Marker	EA	291	\$5.18	\$ 1,507.38
711-11-111	Thermoplastic, Standard, White, Solid, 6"	NM	1	\$6,679.00	\$ 7,607.38
711-11-123	Thermoplastic, Standard, White, Solid, 12"	LF	463	\$2.70	\$ 1,250.10
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	532	\$5.06	\$ 2,691.92
711-11-151	Thermoplastic, Standard, DOT Guide, 6"	LF	530	\$1.04	\$ 551.20
711-11-160	Thermoplastic, Standard, White, Message	EA	15	\$138.00	\$ 2,070.00
711-11-170	Thermoplastic, Standard, White, Arrow	EA	43	\$96.60	\$ 4,153.80
711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	NM	1	\$6,679.00	\$ 7,948.01
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	105	\$3.94	\$ 413.70
711-11-231	Thermoplastic, Standard, Yellow, Skip, 6"	GM	0.77	\$5,465.00	\$ 4,208.05
711-11-251	Thermoplastic, Standard, Yellow, DOT/Guide, 6"	LF	985	\$1.04	\$ 1,024.40
ROADWAY BASE BID SUBTOTAL				\$	1,633,417.39

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost
1	Mobilization/Demobilization	LS	1	\$5,000.00	\$ 5,000.00
2	General Requirements, Bonds and Insurance	LS	1	\$88,000.00	\$ 88,000.00
3	Locate Utilities in Advance of Construction	LS	1	\$5,500.00	\$ 5,500.00
4	Survey Layout and As-Builts	LS	1	\$45,000.00	\$ 45,000.00
5	Furnish and install 4-inch DIP water main (restrained joint)	LF	80	\$27.00	\$ 2,160.00
6	Furnish and install 6-inch PVC water main (restrained joint)	LF	710	\$18.00	\$ 12,780.00
7	Furnish and install 6-inch PVC water main (push)	LF	115	\$25.00	\$ 2,875.00
8	Furnish and install 6-inch DIP water main (restrained joint)	LF	200	\$33.50	\$ 6,700.00
9	Furnish and install 8-inch PVC water main (restrained joint)	LF	30	\$28.00	\$ 840.00
10	Furnish and install 8-inch PVC water main (push)	LF	0	\$33.00	\$ -
11	Furnish and install 12-inch DIP water main (restrained joint)	LF	120	\$55.00	\$ 6,600.00
12	Furnish and install 16-inch PVC water main (restrained joint)	LF	2340	\$74.00	\$ 173,160.00
13	Furnish and install 16-inch PVC water main (push)	LF	1030	\$60.00	\$ 61,800.00
14	Furnish and install 16-inch DIP water main (restrained joint)	LF	185	\$105.00	\$ 19,425.00
15	Abandon and grout fill existing water main	LF	4920	\$7.20	\$ 35,424.00
16	Removal and disposal existing water main	LF	2100	\$8.00	\$ 16,800.00
17	4-inch 45 Degree Bend	EA	4	\$162.00	\$ 648.00
18	6-inch 45 Degree Bend	EA	16	\$210.00	\$ 3,360.00
19	6-inch 22.5 Degree Bend	EA	2	\$210.00	\$ 420.00
20	6-inch 11.25 Degree Bend	EA	3	\$210.00	\$ 630.00
21	8-inch 45 Degree Bend	EA	2	\$340.00	\$ 680.00
22	12-inch 45 Degree Bend	EA	4	\$640.00	\$ 2,560.00
23	16-inch 11.25 Degree Bend	EA	7	\$1,340.00	\$ 9,380.00
24	16-inch 22.5 Degree Bend	EA	1	\$1,340.00	\$ 1,340.00
25	16-inch 45 Degree Bend	EA	34	\$1,330.00	\$ 45,220.00
26	6-inch Tee	EA	1	\$1,600.00	\$ 1,600.00
27	16 x 4-inch Tee	EA	1	\$1,587.00	\$ 1,587.00
28	16 x 6-inch Tee	EA	4	\$1,515.00	\$ 6,060.00
29	16 x 8-inch Tee	EA	1	\$1,551.00	\$ 1,551.00
30	16 x 12-inch Cross	EA	1	\$2,550.00	\$ 2,550.00
31	6 x 4-inch Reducer	EA	2	\$131.00	\$ 262.00
32	16 x 12-inch Reducer	EA	1	\$767.00	\$ 767.00
33	4-inch Gate Valve	EA	1	\$600.00	\$ 600.00
34	6-inch Gate Valve	EA	5	\$775.00	\$ 3,875.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
35	8-inch Gate Valve	EA	1	\$1,077.00	\$ 1,077.00
36	12-inch Gate Valve	EA	3	\$2,150.00	\$ 6,450.00
37	16-inch Gate Valve	EA	4	\$5,200.00	\$ 20,800.00
38	Air Release Valve	EA	6	\$3,600.00	\$ 21,600.00
39	Fire Hydrant	EA	11	\$4,250.00	\$ 46,750.00
40	1-inch Single Service - Short	EA	13	\$625.00	\$ 8,125.00
41	1-inch Single Service - Long	EA	5	\$700.00	\$ 3,500.00
42	1-inch Double Service - Short	EA	5	\$680.00	\$ 3,400.00
43	1-inch Double Service - Long	EA	14	\$740.00	\$ 10,360.00
44	4-inch Direct Connect & Fitting Assembly – Potable	EA	4	\$3,850.00	\$ 15,400.00
45	6-inch Direct Connect & Fitting Assembly – Potable	EA	2	\$4,100.00	\$ 8,200.00
46	8-inch Direct Connect & Fitting Assembly – Potable	EA	1	\$4,700.00	\$ 4,700.00
47	12-inch Direct Connect & Fitting Assembly – Potable	EA	3	\$6,000.00	\$ 18,000.00
48	Testing and Laboratory Services (Allowance)	LS	1	\$5,000.00	\$ 5,000.00
SUBTOTAL UTILITY BASE BID				\$	738,516.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

SUBTOTAL ROADWAY BASE BID:

ONE MILLION SIX HUNDRED THIRTY THREE THOUSAND \$ 1,633,417.39
FIVE HUNDRED SEVENTEEN DOLLARS AND THIRTY NINE CENTS. (IN FIGURES)
 (IN WORDS)

SUBTOTAL UTILITY BASE BID:

SEVEN HUNDRED THIRTY EIGHT THOUSAND \$ 738,516.00
SEVEN HUNDRED SIXTY DOLLARS (IN FIGURES)
 (IN WORDS)

TOTAL ROADWAY & UTILITY BASE BID:

TWO MILLION THREE HUNDRED SEVENTY ONE THOUSAND \$ 2,371,933.39
NINE HUNDRED THIRTY THREE DOLLARS AND THIRTY (IN FIGURES)
NINE CENTS.

1. The following documents are attached to and made a condition of this Bid:

1. Bid Response Forms (Bidding Documents, entire Section 00300).
2. Bidders Contact and Information Form (Section 00301).
3. References (Section 00301-A).
4. Questionnaire Form (Section 00301-B)
5. Sub-Contractors and Affiliates Form (Section 00301-C)
6. Bid Bond or security (surety bond or cashier's check). (Section 00410).
7. Power of Attorney (for surety bond only).
8. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420).
9. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Section 00470)
10. Non-collusion Affidavit (Section 00480).
11. Trench Safety Affidavit (Section 00490).

END OF SECTION

SECTION 00301-A

References

*References who are located in foreign countries are not acceptable.
The Reference Form Must Be Completed and Returned with your Submittal.*

1. Project Name: Princeton Elementary School (in association with Doster Construction)
Project Value: \$14,560,882
Project Description: Comprehensive Renovation
Project Owner: Orange County Public Schools
Project Owner's contact info: Davin Ruohomaki - URS/OCPS (407)928-7927
Project Location: Orlando, Florida
Project Start and End Dates: June 1, 2011 August 15, 2012

2. Project Name: Aloma Elementary School (in association with Doster Construction)
Project Value: \$9,632,438
Project Description: Comprehensive Renovation
Project Owner: Orange County Public Schools
Project Owner's contact info: Davin Ruohomaki - URS/OCPS (407)928-7927
Project Location: Orlando, Florida
Project Start and End Dates: June 1, 2011 September 15, 2012

3. Project Name: Choices In Learning Charter Elementary School
Project Value: \$9,500,000
Project Description: New Construction
Project Owner: Choices in Learning Inc.
Project Owner's contact info: Carol Knapp, Business Manager (407)302-1005
Project Location: Winter Springs, Florida
Project Start and End Dates: January 2011 - October 2011

4. Project Name: Lakeland 98 Self Storage
Project Value: \$2,924,034
Project Description: New Construction
Project Owner: Lakeland 98 Self Storage, LLC
Project Owner's contact info: Gary Cardamone (407)509-3987
Project Location: Lakeland, Florida
Project Start and End Dates: May 2010 - April 2011

5. **Project Name:** Cypress Creek High School (in association with Doster Construction)
Project Value: \$69,154,453
Project Description: New Construction
Project Owner: Orange County Public Schools
Project Owner's contact info: Davin Ruohomaki - URS/OCPS (407)928-7927
Project Location: Orlando, Florida
Project Start and End Dates: August 2007 - July 2009
6. **Project Name:** Ivey Lane Terrace
Project Value: \$1,127,000
Project Description: Renovate and Remodel
Project Owner: Orlando Housing Authority
Project Owner's contact info: Rueben Gomez (407)346-8049
Project Location: Orlando, Florida
Project Start and End Dates: May 2008 October 2008
7. **Project Name:** John Young Land Partners - Select Salvage & Interior Alterations Phase 1
Project Value: \$2,125,000
Project Description: Decommission, Selective Demolition and Salvage
Project Owner: Lake Nona Development
Project Owner's contact info: David Entler (407)463-2270
Project Location: Orlando, Florida
Project Start and End Dates: April 2008 July 2008
8. **Project Name:** John Young Land Partners - Select Salvage Phase 2
Project Value: \$1,752,000
Project Description: Decommission, Selective Demolition and Salvage
Project Owner: Lake Nona Development
Project Owner's contact info: David Entler (407)463-2270
Project Location: Orlando, Florida
Project Start and End Dates: January 2008 May 2008

SECTION 00301-B
QUESTIONNAIRE FORM

DATE: February 28, 2013

PROJECT IDENTIFICATION **CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION “B”**

NAME OF BIDDER: Breen Construction Services Inc.

BUSINESS ADDRESS: 205 West State Road 434, Suite D, Winter Springs, FL 32708

TELEPHONE NO.: (407) 542-3961

CONTRACTOR'S FLORIDA LICENSE NO.: CGC 058472

The undersigned warrants the truth and accuracy of all statements and answers herein contained. Include additional sheets if necessary.

1. How many years has your organization been in business as a General Contractor?
Six years.

2. List similar roadway projects that you have undertaken in the most recent three year period. Identify the Owner and a Contact Person:

<u>Project</u>	<u>Municipality / Owner</u>	<u>Contact Name/Number</u>
<u>Wekiwa Springs State Park</u>	<u>State of Florida</u>	<u>Michael Renard (850)488-5372</u>
<u>Great Oaks Sanitary Sewer</u>	<u>Orange County, Florida</u>	<u>Mark Adams (407)836-7299</u>
<u>Old Midway Site Lift Station</u>	<u>Seminole Co. Public Schools</u>	<u>Jay Taylor (407)320-0087</u>
<u>Choices In Learning Charter E.S.</u>	<u>Choices In Learning Inc.</u>	<u>Carol Knapp (407)302-1005</u>
<u>Princeton Elementary School</u>	<u>Orange Co. Public Schools</u>	<u>Davin Ruohomaki (407)317-3768</u>
<u>Aloma Elementary School</u>	<u>Orange County Public Schools</u>	<u>Davin Ruohomaki (407)317-3768</u>

3. Have you ever failed to complete work awarded to you? If so, where and why?
No. Breen Construction Services Inc. has never failed to complete a project.

4. Name three (3) municipalities for which you have performed similar roadway projects and to which you refer:

We have not yet completed any paving projects for municipalities. We have completed numerous projects with substantial pay scopes for Orange County School Board. We have also completed a utility paving project for the State of Florida.

5. Have you personally inspected the site of the proposed Work? Describe any anticipated problems with the site and your proposed solutions.

Yes. We visited the site. Potential problems include ground water. We have included dewatering in our price.

6. Will you Subcontract any part of this Work? If so, describe which portion(s).

Yes.

Paving

Curbs and Gutter

Signalization

Striping

7. What equipment do you own that is available for the Work?

Track Hoe, Back Hoe, , Bob Cat, Dozer

8. What equipment will you purchase for the Work?

Breen Construction Services Inc. will not be purchasing any equipment.

9. What equipment will you rent for the Work?

Grader, Mixer, Dewatering Pumps

10. The following is given as a summary of the Financial Statement of the undersigned: (List Assets and Liabilities and use insert sheet if necessary.)

See Attached Audited Financial Statement

11. State the true and exact, correct, and complete name under which you do business.

Bidder is: Breen Construction Services Inc.

END OF SECTION

SECTION 00301-C
Sub Contractors and Affiliates Form

The following are a list of Sub Contractors or Affiliates that will be utilized in this project. Use additional sheets if necessary.

FIRM NAME	TRADE	TELEPHONE AND FAX NUMBER
Sun Road Inc.	Sewer, Site	(321) 303-3692 (407) 359-9368
Traffic Control Products	Traffic Signals	(407) 869-5300 (407) 682 0076
D & H Striping	Striping	(407) 359-1172 (407) 359-1819
P & S Paving	Asphalt Paving	(386) 258-7911 (386) 258-9313
KC Curb	Curbs and Gutter	(407) 737-7744 (407) 737-7747
		()
		()
		()
		()

In the event our firm is awarded this bid, the City of Deltona will be notified of any changes made to this Sub Contractors list before and during any and all work performed during this project.

The Sub-Contractor listing Form Must Be Completed and Returned with your Submittal.

SECTION 00301-D

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that Breen Construction Services Inc. does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's 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. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify 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. Impose a sanction on, or require 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. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

X 
Matthew Breen Bidder's Signature President
February 28, 2013
Date

This Form Must Be Completed and Returned with your Submittal, if applicable

SECTION 00301-E

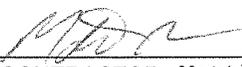
HOLD HARMLESS AND INDEMNITY AGREEMENT

Breen Construction Services Inc agrees through the signing of this document by an authorized party or agent that it shall defend, indemnify and hold harmless the City of Deltona, and its agents, employees, and public officials from and against all suits, losses, claims, demands, judgments of every name and description arising out of or incidental to the performance of this contract or work performed thereunder, whether or not due to or caused by the negligence of the City of Deltona, its agents, employees, and public officials excluding only the sole negligence of the City of Deltona, its agents, employees, and Public Officials.

This provision shall also pertain to any claims brought against the City of Deltona, its agents, employees, and public officials by an employee of the named Contractor, any Sub-contractor, or anyone directly or indirectly employed by any of them.

The Contractor's obligation to indemnify the City of Deltona, its agents, employees and public officials under this provision shall be limited to \$1,000,000 per occurrence which the parties agree bears a reasonable commercial relationship to the contract.

The Contractor agrees to accept, and acknowledges as adequate remunerations, the consideration of \$10, which is part of the agreed bid price, the promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, for agreement to enter into this Hold Harmless and Indemnity Agreement.



CONTRACTOR Matthew Breen,
President

February 28, 2013

DATE

This Form Must Be Completed and Returned with your Submittal.

NOT APPLICABLE

SECTION 00301-F

Statement of No Bid

Bid No.: ITB # PW 13-05 Normandy Blvd (Sec B) Saxon Blvd. to Fort Smith Blvd

If your company does not intend to bid on this Procurement, please complete and return this form prior to the date shown for receipt of bids to: PUBLIS WORKS DIVISION, CITY OF DELTONA, Purchasing Agent, 255 Enterprise Road, Deltona, FL 32725.

We, the undersigned, have declined to bid on the above referenced Invitation to Bid for the following reason(s):

- Specifications are too "restrictive." (Please explain below)
- Unable to meet specifications
- Specifications were unclear. (Please explain below)
- Insufficient time to respond
- We do not offer this type of product or equivalent
- Our production schedule would not permit us to perform
- Unable to meet bond requirements
- Other (please explain below)

REMARKS:

N/A

Company Name

Telephone

X

Signature

Fax

Title

Typed or Printed Name

Address City State Zip

SECTION 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, Breen Construction Services, Inc. as Principal, and Fidelity and Deposit Company of Maryland as Surety, are hereby held and firmly bound unto the City of Deltona, Florida as Owner in the penal sum of, (five percent 5%) of the Contract Bid) _____ for the payment of which, well and truly to be made, we hereby and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.

Signed, this 27th day of February, 2013.

The condition of the above obligation is such that whereas the Principal has submitted to City of Deltona, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for Roadway Improvements.

NOW THEREFORE,

1. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder's bid and Bidder delivers within the time required by the Bidding Documents (or an extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents, or
 - 2.2 All bids are rejected by Owner, or
 - 2.3 Owner fails to issue a notice of award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this Bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, providing that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
5. No suite or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
6. Any suite or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the part concerned.
8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
9. This bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term "bid" as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name):

Surety (Print Full Name):

Breen Construction Services, Inc.

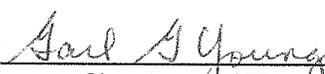
Fidelity and Deposit Company of Maryland (Seal)
Surety's Name and Corporate Seal

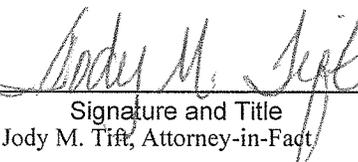
By:  (LS)
Mathew Breen

By: 
Signature (attach power of attorney)
William J. Palmer

Title: President

Title: Attorney-in-Fact Florida Resident Agent

Attest: 
Signature and Title
GAIL G. YOUNG, ADMIN. SVS.

Attest: 
Signature and Title
Jody M. Tift, Attorney-in-Fact
02/27/2013
(Date)

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida. See Article 5 of the General Conditions as amended by Supplementary Conditions.

END OF SECTION

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 27th day of February, 2013.



Thomas O. McClellan

Thomas O. McClellan, Vice President

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **JAMES M. CARROLL, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **William J. PALMER, Patricia D. POST, Jason Cory BROADAWAY, Julie A. PEARSON, Jody M. TIFT and Steven W. HOLTZ, all of Maitland, Florida, EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 9th day of October, A.D. 2012.

ATTEST:

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



Gregory E. Murray

By: _____
*Assistant Secretary
Gregory E. Murray*

James M. Carroll

*Vice President
James M. Carroll*

State of Maryland
City of Baltimore

On this 9th day of October, A.D. 2012, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **JAMES M. CARROLL, Vice President, and GREGORY E. MURRAY, Assistant Secretary**, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposed and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

Maria D. Adamski

Maria D. Adamski, Notary Public
My Commission Expires: July 8, 2015



SECTION 00420

CORPORATE RESOLUTION

I, DEANNE SIMONES BEARD, Secretary of BEARD CONSTRUCTION SERVICES INC., a corporation organized and existing under the laws of the state of FL, hereby certify that at a meeting of the Board of Directors of the Corporation duly called and held on 5/21, 2012 at which a quorum was present and acting throughout, the following resolutions were adopted and are now in full force and effect:

RESOLVED that the following individuals of this corporation are authorized to execute on behalf of this corporation a Bid and Agreement to DELONIA for the construction of Roadway improvements on Fort Smith Boulevard (Section 2).

MEMORANDUM

I further certify that the names of the officers of this corporation and any other persons authorized to act under this resolution and their official signatures are as follows:

<u>NAME</u>	<u>OFFICE</u>	<u>OFFICIAL SIGNATURE</u>
<u>MARILYN BEARD</u>	<u>PRESIDENT</u>	<u>[Signature]</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

IN WITNESS THEREOF, I have hereunto subscribed my name as Secretary and affixed the seal of the corporation this 28th day of FEB., 2013.

END OF SECTION

SECTION 00470

SWORN STATEMENT UNDER SECTION 287.133(3)(A), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the City of Deltona by Matthew Breen, President
(Individual's name and title)

For
Breen Construction Services Inc.
(Name of entity submitting sworn statement)

Whose business address is
205 West State Road 434, Suite D
Winter Springs, Florida 32708

And (if applicable) its Federal Employer Identification Number (FEIN) is 20-5789840
(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

1. I understand that a "public entity crime" as defined in Section 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 with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or a of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
1. 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 crimes, 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.
2. I understand that an "affiliate" as defined in Section 287.133(1)(a), Florida Statutes, means:

A predecessor or successor of a person convicted of a public entity crime: or an entity under the control of any natural person who is active in the management of the entity and how 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 (1) 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 thirty-six (36) months shall be considered an affiliate.
3. I understand that a "person" as defined in Section 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.

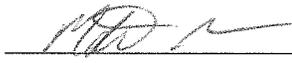
4. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (You must indicate which statement applies.)

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

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before an Administrative Law Jury of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Administrative Law Jury determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (You must attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CITY OF DELTONA IS FOR THE CITY 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 CITY PRIOR TO ENTERING IN TO 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.



Matthew Breen SIGNATURE President

February 28, 2013

DATE

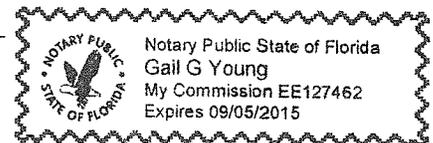
State of Florida
County of Seminole

Personally appeared before me, the undersigned authority, Matthew Breen (name of individual signing) who, after first being sworn by me, affixed his/her signature in the space provided above on the 28th day of February, 2013.



Gail G. Young NOTARY PUBLIC

My commission expires: 09/05/2015



This Form Must Be Completed and Returned with your Submittal

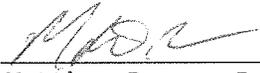
SECTION 00480
NON COLLUSION AFFIDAVIT FORM

STATE OF FLORIDA

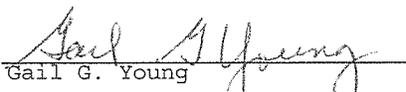
COUNTY OF VOLUSIA SEMINOLE

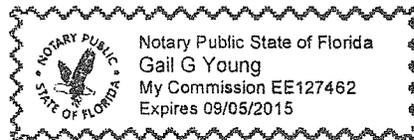
Matthew Breen, being first duly sworn deposes and says that:

1. He (it) is the President, of Breen Construction Services Inc., the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

By 
Matthew Breen, President

Sworn and subscribed to before me this 28th day of February, 2013, in the State of Florida, County of Seminole.

 Notary Public
Gail G. Young
My Commission expires: 09/05/2015



This Form Must Be Completed and Returned with your Submittal

SECTION 00490

TRENCH SAFETY AFFIDAVIT

Trench excavations on this Project are expected to be in excess of 5 feet deep. The Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 Subpart P Trench Safety Standards will be in effect during the period of construction of the Project.

Bidder acknowledges that included in the Bid Price are costs for complying with the Florida Trench Safety Act (90-096, Laws of Florida) effective October 1, 1990, and hereby gives assurance that, if awarded the Contract, the Contractor or Subcontractor performing trench excavation work on the Project will comply with the applicable trench safety standards. The Bidder further identified the costs as follows:

**CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION B**

<u>Trench Safety Item (description)</u>	<u>Unit Cost</u>
<u>Sloping</u>	<u>\$1,000 / LS</u>

One Thousand Dollars and No Cents

(Cost in Words)

Total: \$ 1,000

FAILURE TO COMPLETE THE ABOVE SHALL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE.

COMPANY NAME: Breen Construction Services Inc.

DATE: February 28, 2013

BY: 
Matthew Breen, President

END OF SECTION

SECTION 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, Built-Rite Construction of Central Florida, Inc. as Principal, and Merchants Bonding Company as Surety, are hereby held and firmly bound unto the City of Deltona, Florida as Owner in the penal sum of, (five percent 5%) of the Contract Bid Five Percent of the Amount Bid (5%) for the payment of which, well and truly to be made, we hereby and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.
Signed, this 28th day of February, 2013.

The condition of the above obligation is such that whereas the Principal has submitted to City of Deltona, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for Roadway Improvements.

Project Title: Bid No. PW 13-05; Normandy Blvd - Section "B" Roadway Improvements
NOW THEREFORE,

1. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder's bid and Bidder delivers within the time required by the Bidding Documents (or an extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents, or
 - 2.2 All bids are rejected by Owner, or
 - 2.3 Owner fails to issue a notice of award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this Bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, providing that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
5. No suite or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
6. Any suite or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the part concerned.
8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
9. This bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term "bid" as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name):

Built-Rite Construction of Central Florida, Inc.

By: *Sandra C. Large* (LS)

Title: *President*

Attest: *R. Large v.p.*
Signature and Title

Surety (Print Full Name):

Merchants Bonding Company (Seal)

Surety's Name and Corporate Seal

By: *Allyson Foss*
Signature (attach power of attorney)

Title: Allyson Foss, Attorney-In-Fact &
Florida Licensed Resident Agent

Attest: *Kathy Clawson*
Signature and Title
Kathy Clawson, Witness

February 28th, 2013

(Date)

Inquiries: (407) 834-0022

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida. See Article 5 of the General Conditions as amended by Supplementary Conditions.

END OF SECTION

MERCHANTS
BONDING COMPANY™
POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations duly organized under the laws of the State of Iowa (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint, individually,

April L. Lively, Jack W. Guignard, Paul J. Ciambriello, Bryce R. Guignard,
Jennifer L. McCarta, Margie L. Morris, Allyson Foss

of Longwood and State of Florida their true and lawful Attorney-in-Fact, with full power and authority hereby conferred in their name, place and stead, to sign, execute, acknowledge and deliver in their behalf as surety any and all bonds, undertakings, recognizances or other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

SEVEN MILLION (\$7,000,000.00) DOLLARS

and to bind the Companies thereby as fully and to the same extent as if such bond or undertaking was signed by the duly authorized officers of the Companies, and all the acts of said Attorney-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This Power-of-Attorney is made and executed pursuant to and by authority of the following By-Laws adopted by the Board of Directors of the Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 3rd day of December, 2012.



MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*
President

STATE OF IOWA
COUNTY OF POLK ss.

On this 3rd day of December, 2012, before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument is the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

In Testimony Whereof, I have hereunto set my hand and affixed my Official Seal at the City of Des Moines, Iowa, the day and year first above written.



Maranda Greenwalt
Notary Public, Polk County, Iowa

STATE OF IOWA
COUNTY OF POLK ss.

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 28th day of February, 2013.



William Warner Jr.
Secretary

ADDENDUM # 1

CITY OF DELTONA

BID # PW 13-05

January 30, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Until further notice:

- Questions regarding this bid shall be addressed in writing to:

-

Kate Krauss

Purchasing Manager

Email: kkrauss@deltonafl.gov

Fax: 386-878-8571

- Questions will not be accepted over the phone.

-

- Bidders are asked to acknowledge receipt of this addendum by signing below and returning the signed addendum with their bid submittal. Failure to do so may subject the bidder to disqualification.

Vendor Acknowledgement of Receipt of Addendum:

Sandra C Large *Built-Rite Construction of Central Florida, Inc.* *2-1-13*
Signature Return a signed copy of this addendum with your bid

ADDENDUM # 2

CITY OF DELTONA

BID # PW 13-05

February 5, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is to delete the current bid forms, pages 3-6 of Section 00300, and replace them with the bid forms that are attached to this addendum. The new bid form is also being uploaded to Demandstar in Excel format for your convenience in completing it. Use only these bid forms when submitting your bid. All other pages still apply.

Failure to use the revised bid forms shall deem your bid non-responsive.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Built-Rite Const. of Central Florida, Inc.
NAME OF BUSINESS

BY: Sandra C Large 2-6-13
SIGNATURE/DATE

Sandra C. Large, Pres.
NAME & TITLE, TYPED OR PRINTED

402 N. Center St.
MAILING ADDRESS

Pierson, FL 32180
CITY, STATE, ZIP CODE

ADDENDUM # 3

CITY OF DELTONA

BID # PW 13-05

February 12, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is change the bid due date to Thursday, February 28, 2013 at 2:00 p.m. at the Water Dept. located at 255 Enterprise Road, Deltona, Florida 32725.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Built-Rite Construction of Central Florida, Inc.
NAME OF BUSINESS

BY: Sandra C. Large, 2-13-13
SIGNATURE/DATE

Sandra C. Large Pres.
NAME & TITLE, TYPED OR PRINTED

402 N. Center St.
MAILING ADDRESS

Pierson, FL 32180
CITY, STATE, ZIP CODE

**ADDENDUM # 4
CITY OF DELTONA
BID # PW 13-05
February 18, 2013**

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

**This addendum includes the following:
Questions / Responses, Revised Bid Item Description,
Amended Section 00020 and Tetra Tech Water Main Improvement Plans.**

Questions / Responses:

Question: What is the engineers estimate for this job?

Response: \$1,854,458 Roadway and Utilities

Question: What is the job duration?

Response: 270 days

Question: What are the liquidated damages?

Response: \$1,000 per day

Question: Is the contractor required to provide testing and who pays for the testing?

Response: Testing by CEI, contractor responsible for retesting costs

Question: Are there any permit fees that the contractor is responsible for?

Response: No

Question: Is the contractor required to provide any temporary facilities? (Office)

Response: No

Question: Is the contractor required to submit a MOT plan?

Response: No, the plans currently show the MOT plan. The contractor will be required to submit requests/ notifications and exhibits for any proposed lane or road closures and be responsible for providing a revised MOT plan if he intends to deviate from the current plans.

Bid Form should read:

Pay Item: 430-171-142 Pipe Culv (Opt Matl) (Elliptical) (42"SS) LF 77

A copy of the revised Bid Form is included with this addendum.

Section 00020:

Section 00020-1 contains the Amended Bid Due Date, Description of Work and Purchasing Agent information.

A copy of Section 00020-1 is included with the addendum.

ADDENDUM # 4
CITY OF DELTONA
BID # PW 13-05
February 18, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Tetra Tech Plans:

The Tetra Tech Water Main Improvement Plans are for bid preparation purposes.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Built-Rite Construction of Central Florida, Inc.

NAME OF BUSINESS

Sandra C. Large 2-19-13

BY SIGNATURE / DATE

Sandra C. Large, President

NAME & TITLE, TYPED OR PRINTED

402 N. Center St.

MAILING ADDRESS

Pierson, FL 32180

CITY, STATE, ZIP CODE

**ADDENDUM # 5
CITY OF DELTONA
BID # PW 13-05
February 27, 2013**

NORMANDY BOULEVARD – SECTION “B” ROADWAY IMPROVEMENTS

This addendum is to announce the extension of the bid due date of this solicitation.

The bid due date has been changed. The bid due date is now Monday, March 4, 2013 at 2:00 p.m. This is to allow for an additional addendum to be posted identifying additional changes to the scope of work. It is anticipated that addendum # 6 will be posted within the next 24 hours.

All prospective bidders are hereby instructed not to contact the Engineer of Record or any member of the City of Deltona Commission, City Manager, or City of Deltona Staff members other than the noted contact person regarding this Invitation to Bid or their bid proposal at any time during the solicitation or award process. Any such contact shall be cause for rejection of your bid proposal.

All inquiries are to be directed to the Purchasing Agent for the Public Works Division at the City of Deltona. Contact for this solicitation is: Brian Boehs, Purchasing Agent. Email address is bboehs@deltonafl.gov. Phone is 386-878-8955.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Built-Rite Construction of
Central Florida, Inc.

NAME OF BUSINESS

BY: Sandra C. Large 3-4-13

SIGNATURE/DATE

Sandra C. Large, Pres.

NAME & TITLE, TYPED OR PRINTED

402 N. Center St

MAILING ADDRESS

Pierson, FL 32180

CITY, STATE, ZIP CODE

**ADDENDUM #6
CITY OF DELTONA
BID #PW 13-05
February 27, 2013**

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

**This addendum includes the following:
Questions / Responses, Clarifications and Revised Drawings.**

Questions / Responses:

- Question: Will the storm pipe require a video inspection per FDOT?
Response: Yes, a video inspection of the storm drainage system will be required.
- Question: Will this inspection require laser profiling of installed pipe?
Response: No, laser profiling of the storm drainage system is not required.
- Question: In Utility Bid Item No. 48, Testing and Laboratory Services (Allowance), is this allowance to be determined by the City? If so, what amount?
Response: The measurement and payment for Testing and Laboratory Services, bid item 48, is explained under measurement and payment item 14 of the Tetra Tech Technical Specifications Section 01025. The testing allowance is listed under Tetra Tech Technical Specifications Section 01410 as \$5,000.00 for density testing related to the water main installation.

Clarifications:

1. The contractor shall be responsible for obtaining a NPDES Stormwater Permit.

Operators of construction activities must obtain coverage under an NPDES stormwater permit and implement appropriate pollution prevention techniques to minimize erosion and sedimentation and properly manage stormwater. The majority of construction activities requiring an NPDES stormwater permit will likely qualify for an NPDES permit for construction. A generic permit is a general permit issued by DEP under the authority of Section 403.0885, Florida Statutes (F.S.), which is the provision authorizing the State to implement the NPDES program.

CGP Requirements:

- A **CGP Notice of Intent (NOI)** | Word (DEP Form 62-621.300(4)(b)) must be submitted online using Interactive Notice of Intent (iNOI) or by paper copy to the NPDES Stormwater Notices Center to obtain permit coverage.
- A **stormwater pollution prevention plan (SWPPP)** must be developed and implemented to be in compliance with the permit.

<http://www.dep.state.fl.us/water/stormwater/npdes/construction3.htm>

2. "Water main specifications have been provided as part of the original bid package. The Water Main Improvements Normandy Boulevard Part B Construction Plans completed by Tetra Tech have been provided in Addendum #4. The Tetra Tech plans and specifications are part of the contract documents. Please note: there is additional water main work on side streets beyond the limits of the roadway project. The water main shown in the Normandy Boulevard Part B roadway plans is for clarity and coordination with the roadway work only."

ADDENDUM #6
CITY OF DELTONA
BID #PW 13-05
February 27, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Revised Drawings: Tetra Tech Plans

Tetra Tech Drawing G002 –
Please insert the following notes:

General Notes for Work Conducted within Volusia County RW:

1. Driving and/or Staging of construction vehicles is not permitted on any sidewalks in the Right-Of-Way. Any damage to sidewalks will be repaired and/or replaced in like kind by the Contractor.
2. Any road, lane or sidewalk closure requires review and approval in advance and a seven (7) day minimum notice to Volusia County Traffic Operations (386-239-6535).
3. All existing sidewalks within County Rights of Way shall remain open or provision of a temporary walkway shall be provided in accordance with version 2010 of Florida Department of Transportation Standard Index #660 "Mid Block Closure with Temporary Walkway" unless otherwise approved by the County Traffic Engineer. Please Note that Index #660 must be shown on the use permit plans.
4. No trench or excavation shall be left open or unattached overnight, unless the excavations within the clear zone of the roadway meet the drop off criteria of the 2010 Florida Department of Transportation Design Standards (Index 600) "Of Properly Barricaded and Secured Excavations", including all equipment and materials.
5. All disturbed areas within the County Right of Way shall be sodded. Seed and Mulch is not acceptable.

Tetra Tech Drawing C503 –
Detail 1 and Detail 2 have been revised.

**ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED**

Built-Rite Construction of Central Florida, Inc.

NAME OF BUSINESS

Sandra C. Large 3-4-13

BY SIGNATURE / DATE

Sandra C. Large, Pres.

NAME & TITLE, TYPED OR PRINTED

402 W. Center St.

MAILING ADDRESS

Pierson, FL 32180

CITY, STATE, ZIP CODE

SECTION 00300
BID RESPONSE FORM
BID NO. ITB # PW 13-05
Normandy Boulevard (Sec. B)
Saxon Blvd to Fort Smith Blvd

DATE SUBMITTED: February 28, 2013

PROJECT IDENTIFICATION: **City of Deltona**
ITB # PW 13-05
Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd

NAME OF BIDDER: Built-Rite Construction of Central Florida, Inc.

BUSINESS ADDRESS: 402 N. Center St. Pierson, FL 32180

TELEPHONE NUMBER: 386-749-0312

CONTRACTOR'S FLORIDA LICENSE NO.: CUC 057414

THIS BID IS SUBMITTED TO: **City of Deltona**
Public Works Division
255 Enterprise Road
Deltona, Florida 32725

1. In accordance with the foregoing terms, conditions and specifications, the undersigned bidder, having become familiarized with the conditions affecting the cost of the work and with all requirements of the proposed Bid Documents, and duly issued Addenda to said documents, as acknowledged herein, proposes to furnish and perform all things required in labor, material, necessary tools, expendable equipment, and all services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined and carefully studied the Bidding Documents and the following Addendum receipt of which is hereby acknowledged:

No. <u>1</u>	Dated <u>1-30-13</u>	No. <u>5</u>	Dated <u>2-27-13</u>
No. <u>2</u>	Dated <u>2-5-13</u>	No. <u>6</u>	Dated <u>2-27-13</u>
No. <u>3</u>	Dated <u>2-12-13</u>	No. _____	Dated _____
No. <u>4</u>	Dated <u>2-18-13</u>	No. _____	Dated _____

b. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bid Documents, and Addendum.

- c. All Bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Bid Documents and addendum.
 - d. Bidder declares their bid submittal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder submits the following unit prices to perform all the work as required by the Bid documents and Specifications for the **City of Deltona, Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd.**

All bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place and ready for operation in the manner contemplated by the Bid documents and addendum.

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

<i>Pay Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
101-1	Mobilization	LS	1	\$50,000.00	\$ 50,000.00
102-1	Maintenance of Traffic	LS	1	\$100,000.00	\$ 100,000.00
102-3	Commercial Material for Driveway Maintenance	CY	500	\$15.00	\$ 7,500.00
104-100	Erosion Control Measures	LS	1	\$5,000.00	\$ 5,000.00
110-1-1	Clearing & Grubbing	AC	9	\$3,500.00	\$ 31,500.00
110-7-1	Mailbox, F&I, Single	EA	23	\$50.00	\$ 1,150.00
120-1	Regular Excavation	CY	16,000	\$4.50	\$ 72,000.00
120-6	Embankment	CY	1,500	\$3.00	\$ 4,500.00
160-4	Stabilization, Type B	SY	17,000	\$4.00	\$ 68,000.00
285-70-9	Optional Base Group 9	SY	12,050	\$12.00	\$ 144,600.00
334-1-12	Type SP Structural Course (Traffic Level B)	TN	1,326	\$83.00	\$ 110,058.00
334-7-30	Friction Course (FC-9.5) (Rubber)	TN	663	\$110.00	\$ 72,930.00
400-1-2	Conc. Class I, Endwalls	CY	9	\$650.00	\$ 5,850.00
400-1-11	Conc. Class I, Retaining Walls	CY	0	\$650.00	\$ -
425-1-311	Inlets(Curb)(Type P-1)(<10')	EA	22	\$3,500.00	\$ 77,000.00
425-1-321	Inlets(Curb)(Type P-2)(<10')	EA	5	\$4,200.00	\$ 21,000.00
425-1-521	Inlets(DT Bot)(Type C)(<10')	EA	1	\$1,700.00	\$ 1,700.00
425-1-551	Inlets(DT Bot)(Type E (Special Design)	EA	2	\$5,000.00	\$ 10,000.00
425-2-41	Manholes (P-7)(<10')	EA	1	\$2,100.00	\$ 2,100.00
430-171-118	Pipe Culv (Opt Matl)(Round)(18"SS)	LF	1,143	\$35.00	\$ 40,005.00
430-171-124	Pipe Culv (Opt Matl)(Round)(24"SS)	LF	1,125	\$43.00	\$ 48,375.00
430-171-130	Pipe Culv (Opt Matl)(Round)(30"SS)	LF	567	\$53.00	\$ 30,051.00
430-171-142	Pipe Culv (Opt Matl)(Elliptical)(42"SS)	LF	77	\$94.00	\$ 7,238.00
430-982-125	Mitered End Section, Optional Round, 18" CD	EA	3	\$950.00	\$ 2,850.00
430-982-133	Mitered End Section, Optional Round, 30" CD	EA	1	\$1,000.00	\$ 1,000.00
520-1-10	Curb & Gutter Conc - Type F	LF	5,690	\$8.50	\$ 48,365.00
522-1	Sidewalk Concrete, 4" Thick	SY	2,731	\$20.00	\$ 54,620.00
522-2	Sidewalk Concrete, 6" Thick	SY	1,072	\$28.00	\$ 30,016.00
524-1-29	Concrete Ditch Pavt, Reinforced 4"	SY	127	\$45.00	\$ 5,715.00
530-3-3	Riprap, Rubble and Filter Fabric	TN	20	\$75.00	\$ 1,500.00
570-1-2	Performance Turf Sodding	SY	18,850	\$2.00	\$ 37,700.00
630-1-12	Conduit (F&I)(Underground)	LF	20	\$6.00	\$ 120.00
630-1-14	Conduit (F&I)(Underground-Jacketed)	LF	140	\$13.00	\$ 1,820.00
632-7-1	Cable (Signal)(F&I)	PI	1	\$5,620.00	\$ 5,620.00
634-4-113	Span Wire Assembly (F&I)(Two Wire)(Box)	PI	1	\$5,200.00	\$ 5,200.00
635-1-11	Pull and Junction Boxes (F&I) (Pull Box)	EA	2	\$255.00	\$ 510.00
641-2-16	Prestressed Concrete Strain Pole (F&I) (Type P-VI)	EA	2	\$7,600.00	\$ 15,200.00
650-51-313	Traffic Signal (F&I) (3-Section)(1-Way)(Polycarbonate/LED)	AS	8	\$815.00	\$ 6,520.00
653-191	Signal Pedestrian (F&I) (LED Countdown)(1- Way)	AS	4	\$533.00	\$ 2,132.00
653-192	Signal Pedestrian (F&I) (LED Countdown)(2- Way)	AS	1	\$1,066.00	\$ 1,066.00
659-101	Signal Head Auxuillaries (F&I)(Backplates 3 Section)	EA	5	\$186.00	\$ 930.00
659-106	Signal Head Auxuillaries (F&I)(Tunnel Visor)	EA	20	\$1.25	\$ 25.00
660-1-103	Loop Detector, Inductive (F&I)(Type 3, 1CH, SS, S)	EA	4	\$155.00	\$ 620.00
660-1-104	Loop Detector, Inductive (F&I)(Type 4, 1CH, SS, S)	EA	1	\$230.00	\$ 230.00
660-2-106	Loop Assembly (F&I)(Type F)	AS	5	\$750.00	\$ 3,750.00
665-13	Detector, Pedestrian (F&I)(Detector w/ Sign)	EA	4	\$120.00	\$ 480.00
670-5-410	Traffic Control Assembly (Modify)(NEMA)	AS	1	\$1,418.00	\$ 1,418.00
690-10	Traffic Signal Head Assembly, Remove	EA	8	\$83.00	\$ 664.00
690-20	Pedestrian Signal Assembly, Remove	EA	4	\$85.00	\$ 340.00
690-34-1	Complete Pole removal (Deep) Direct Burial)	EA	2	\$2,700.00	\$ 5,400.00
690-80	Span Wire Assembly (Remove)	EA	1	\$625.00	\$ 625.00
690-90	Remove Cabling and Conduit	PI	1	\$490.00	\$ 490.00
690-100	Signal Equipment, Miscellaneous, Remove	PI	1	\$250.00	\$ 250.00
699-1-1	Internally Illuminated Sign (F&I)(Street Name)	EA	4	\$3,876.00	\$ 15,504.00
700-20-11	Sign, Single Post (< 12 SF)	AS	8	\$250.00	\$ 2,000.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

<i>Pay Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
700-20-40	Sign, Existing (Relocate) (Single Post)	AS	3	\$125.00	\$ 375.00
700-20-60	Sign, Existing (Remove) (Single Post)	AS	10	\$25.00	\$ 250.00
700-46-21	Sign, Existing (Relocate) (Single Post)	AS	14	\$125.00	\$ 1,750.00
700-48-48	Sign Panel (Relocate)(15 or less SF)	EA	6	\$135.00	\$ 810.00
706-3	Retro-Reflective Pavement Marker	EA	291	\$4.00	\$ 1,164.00
711-11-111	Thermoplastic, Standard, White, Solid, 6"	NM	1	\$3,235.00	\$ 3,684.67
711-11-123	Thermoplastic, Standard, White, Solid, 12"	LF	463	\$5.50	\$ 2,546.50
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	532	\$5.50	\$ 2,926.00
711-11-151	Thermoplastic, Standard, DOT Guide, 6"	LF	530	\$0.85	\$ 450.50
711-11-160	Thermoplastic, Standard, White, Message	EA	15	\$155.00	\$ 2,325.00
711-11-170	Thermoplastic, Standard, White, Arrow	EA	43	\$100.00	\$ 4,300.00
711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	NM	1	\$3,300.00	\$ 3,927.00
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	105	\$2.65	\$ 278.25
711-11-231	Thermoplastic, Standard, Yellow, Skip, 6"	GM	0.77	\$425.00	\$ 327.25
711-11-251	Thermoplastic, Standard, Yellow, DOT/Guide, 6"	LF	985	\$0.85	\$ 837.25
ROADWAY BASE BID SUBTOTAL					\$ 1,189,188.42

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

<i>Item No.</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
1	Mobilization/Demobilization	LS	1	\$10,000.00	\$ 10,000.00
2	General Requirements, Bonds and Insurance	LS	1	\$8,000.00	\$ 8,000.00
3	Locate Utilities in Advance of Construction	LS	1	\$5,000.00	\$ 5,000.00
4	Survey Layout and As-Builts	LS	1	\$5,000.00	\$ 5,000.00
5	Furnish and install 4-inch DIP water main (restrained joint)	LF	80	\$37.00	\$ 2,960.00
6	Furnish and install 6-inch PVC water main (restrained joint)	LF	710	\$24.00	\$ 17,040.00
7	Furnish and install 6-inch PVC water main (push)	LF	115	\$22.00	\$ 2,530.00
8	Furnish and install 6-inch DIP water main (restrained joint)	LF	200	\$35.00	\$ 7,000.00
9	Furnish and install 8-inch PVC water main (restrained joint)	LF	30	\$33.00	\$ 990.00
10	Furnish and install 8-inch PVC water main (push)	LF	0	\$30.00	\$ -
11	Furnish and install 12-inch DIP water main (restrained joint)	LF	120	\$55.00	\$ 6,600.00
12	Furnish and install 16-inch PVC water main (restrained joint)	LF	2340	\$60.00	\$ 140,400.00
13	Furnish and install 16-inch PVC water main (push)	LF	1030	\$50.00	\$ 51,500.00
14	Furnish and install 16-inch DIP water main (restrained joint)	LF	185	\$80.00	\$ 14,800.00
15	Abandon and grout fill existing water main	LF	4920	\$6.50	\$ 31,980.00
16	Removal and disposal existing water main	LF	2100	\$8.50	\$ 17,850.00
17	4-inch 45 Degree Bend	EA	4	\$88.00	\$ 352.00
18	6-inch 45 Degree Bend	EA	16	\$121.00	\$ 1,936.00
19	6-inch 22.5 Degree Bend	EA	2	\$127.00	\$ 254.00
20	6-inch 11.25 Degree Bend	EA	3	\$128.00	\$ 384.00
21	8-inch 45 Degree Bend	EA	2	\$191.00	\$ 382.00
22	12-inch 45 Degree Bend	EA	4	\$334.00	\$ 1,336.00
23	16-inch 11.25 Degree Bend	EA	7	\$704.00	\$ 4,928.00
24	16-inch 22.5 Degree Bend	EA	1	\$695.00	\$ 695.00
25	16-inch 45 Degree Bend	EA	34	\$697.00	\$ 23,698.00
26	6-inch Tee	EA	1	\$205.00	\$ 205.00
27	16 x 4-inch Tee	EA	1	\$1,053.00	\$ 1,053.00
28	16 x 6-inch Tee	EA	4	\$800.00	\$ 3,200.00
29	16 x 8-inch Tee	EA	1	\$815.00	\$ 815.00
30	16 x 12-inch Cross	EA	1	\$1,235.00	\$ 1,235.00
31	6 x 4-inch Reducer	EA	2	\$104.00	\$ 208.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
32	16 x 12-inch Reducer	EA	1	\$382.00	\$ 382.00
33	4-inch Gate Valve	EA	1	\$803.00	\$ 803.00
34	6-inch Gate Valve	EA	5	\$931.00	\$ 4,655.00
35	8-inch Gate Valve	EA	1	\$1,390.00	\$ 1,390.00
36	12-inch Gate Valve	EA	3	\$2,130.00	\$ 6,390.00
37	16-inch Gate Valve	EA	4	\$4,355.00	\$ 17,420.00
38	Air Release Valve	EA	6	\$1,930.00	\$ 11,580.00
39	Fire Hydrant	EA	11	\$3,549.00	\$ 39,039.00
40	1-inch Single Service - Short	EA	13	\$1,079.00	\$ 14,027.00
41	1-inch Single Service - Long	EA	5	\$1,400.00	\$ 7,000.00
42	1-inch Double Service - Short	EA	5	\$1,100.00	\$ 5,500.00
43	1-inch Double Service - Long	EA	14	\$1,500.00	\$ 21,000.00
44	4-inch Direct Connect & Fitting Assembly – Potable	EA	4	\$3,000.00	\$ 12,000.00
45	6-inch Direct Connect & Fitting Assembly – Potable	EA	2	\$3,500.00	\$ 7,000.00
46	8-inch Direct Connect & Fitting Assembly – Potable	EA	1	\$4,100.00	\$ 4,100.00
47	12-inch Direct Connect & Fitting Assembly – Potable	EA	3	\$7,000.00	\$ 21,000.00
48	Testing and Laboratory Services (Allowance)	LS	1	\$5,000.00	\$ 5,000.00
SUBTOTAL UTILITY BASE BID					\$ 540,617.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

SUBTOTAL ROADWAY BASE BID:

One million one hundred eighty nine thousand
one hundred eighty eight dollars and forty two cents
(IN WORDS)

\$ 1,189,188.42
(IN FIGURES)

SUBTOTAL UTILITY BASE BID:

Five hundred forty thousand six hundred seventeen
dollars
(IN WORDS)

\$ 540,617.00
(IN FIGURES)

TOTAL ROADWAY & UTILITY BASE BID:

One million seven hundred twenty nine thousand
eight hundred five dollars and forty two cents
(IN WORDS)

\$ 1,729,805.42
(IN FIGURES)

1. The following documents are attached to and made a condition of this Bid:

1. Bid Response Forms (Bidding Documents, entire Section 00300).
2. Bidders Contact and Information Form (Section 00301).
3. References (Section 00301-A).
4. Questionnaire Form (Section 00301-B)
5. Sub-Contractors and Affiliates Form (Section 00301-C)
6. Bid Bond or security (surety bond or cashier's check). (Section 00410).
7. Power of Attorney (for surety bond only).
8. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420).
9. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Section 00470)
10. Non-collusion Affidavit (Section 00480).
11. Trench Safety Affidavit (Section 00490).

END OF SECTION

NAME OF BIDDER: Built-Rite Construction of Central Florida, Inc.

A CORPORATION

Built-Rite Construction of Central Florida, Inc. (SEAL)
(Corporation Name)

Florida
(State of Incorporation)

BY Sandra C. Large
(Name of Person Authorized to Sign)

President
(Title)

Sandra C Large
(Authorized Signature)

(CORPORATE SEAL)

ATTEST [Signature]
(Secretary)

Doing Business as: Built-Rite Construction of Central Florida, Inc.

Business Address: 402 N. Center St.
Pierson, FL 32180

Telephone No.: 386-749-0312

Corporation President Sandra C Large

Florida License No.: CUC.057414

NAME OF BIDDER: _____

A JOINT VENTURE

By _____ (SEAL)
(Name)

By _____
(Address)

By _____ (SEAL)
(Name)

By _____
(Address)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above).

8. List the following in connection with the Surety which is providing the Bid Bond. Surety's Name: Surety's Address:

Surety's Name: _____

Surety's Address: _____

Name and address of Surety's resident agent for service of process in Florida:

NAME OF BIDDER: Built-Rite Construction of Central Florida, Inc

SCHEDULE OF BASE BID MANUFACTURERS/SUPPLIERS

The Contract Documents are based upon the equipment or products available from the manufacturers/suppliers denoted as "A", "B", etc. However, the Bidder must indicate in his Bid which Base Bid manufacturer/supplier he intends to use for each item of equipment listed by circling one (1) of the listed manufacturers/suppliers. Should the Bidder fail to circle a named supplier, he hereby agrees to provide the item listed as "A". After receipt of bids, the Bidder may not substitute for any manufacturer or supplier circled. Listed manufacturers/suppliers identified as deductive alternates will be considered as a deductive alternate as presented in the Deductive Alternate Section of the Bid Form.

If the Bidder desires to propose one (1) or more substitution or "or equal" manufacturers/suppliers, he may write in the name of such substitution or "or equal" in the spaces provided on the pages following the lists, but he must, nevertheless, also circle one of the listed manufacturers/suppliers. All substitutions or "or equal" items must be identified at the time of Bid (see paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions). Substitutions or "or equal" items will **not** be considered when determining the Apparent Lowest Bidder. Substitutions or "or equal" items will **not** be evaluated or considered until after the "Effective Date" of the Agreement. The Bidder shall base his Bid on providing one of the listed manufacturers/suppliers and shall assume for bidding purposes that all substitutions or "or equal" items will not be accepted.

If the proposed substitution or "or equal" manufacturer/supplier is determined "not equivalent" by the Engineer, the Bidder must use the circled manufacturer/supplier. If the Bidder fails to indicate which listed manufacturer/supplier he intends to use or if a substitution or an "or equal" is rejected, he must use the manufacturer/supplier listed as "A". Also, if the Bidder circles more than one listed manufacturer/supplier, he must use the first manufacturer/supplier circled (unless a substitution or "or equal" is approved).

Each proposed substitution or "or equal" will be evaluated in accordance with Paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions following the Effective Date of the Agreement.

In addition to the reimbursement required under Paragraph 6.7 of the General Conditions, the Contractor shall also reimburse the Owner for any engineering costs directly attributable to the change in manufacturers/suppliers, caused by the acceptance of proposed substitution or "or equal" items, such as; additional field trips for the Engineer, additional redesign costs, and additional review costs, etc. Other costs directly attributable to the change in manufacturers/suppliers caused by the acceptance of proposed substitution or "or equal" items such as increased electrical requirements, larger building, modifications to structures, additional pumps, piping or tankage, etc., shall be borne by others and not by the Owner. Bidder further agree that the use of substitute equipment offered will not affect the completion date.

The Owner may request, and the Bidder shall supply, complete information on proposed substitution or "or equal" items prior to the Notice of Award.

NAME OF BIDDER: Built-Lite Construction of Central Florida, Inc.

Category I - SCHEDULE OF BASE BID MANUFACTURERS / SUPPLIERS

Item No.	Equipment Item or Material	Specification Section No.	Manufacturer/Supplier
1.	(Pressure Piping)		<ul style="list-style-type: none"> A. North American B. Diamond C. Freedom D. J-M Manufacturing E. Certainteed <input checked="" type="radio"/> F. National Pipe G. Ipex
	(Gate Valves)		<ul style="list-style-type: none"> A. American Flow Control B. Mueller <input checked="" type="radio"/> C. Clow D. US Pipe E. Waterous F. M&H G. Kennedy
	(Air Release Valves)		<input checked="" type="radio"/> A. A.R.I. Flow Control Accessories
2.	<u>Fire Hydrants</u>	<u>1550</u>	<u>American Dading</u>
3.	<u>MJ Fitting Restraints</u>	<u>15050-6</u>	<u>EBAA</u>
4.	<u>Bell Restraints</u>	<u>15050-8</u>	<u>Sigma</u>
5.	<u>MJ Fittings</u>	<u>15050</u>	<u>Tyler</u>
6.	<u>Storm Structures</u>	<u>02-430</u>	<u>Hanson Precast</u>
7.	<u>Storm Pipe (RCP)</u>	<u>02-430</u>	<u>Hanson Precast</u>

SUBSTITUTIONS AND "OR EQUAL"

The undersigned as Bidder agrees that substitutions or "or equal" items will not be considered until after the "Effective Date of the Agreement" and will be evaluated in accordance with Paragraphs 6.7, 6.7.1 and 6.7.2, of the General Conditions as amended by the Supplementary Conditions. If Bidder intends to propose substitutions or "or equal" items after the "Effective Date of the Agreement", it is agreed that these items will be listed on the Substitution List included with the Bid (form provided herein). Only the proposed substitutions or "or equal" items listed on the Substitution List will be evaluated by the Engineer in accordance with the General Conditions.

NAME OF BIDDER: Built-Rite Construction of Central Florida, Inc

SUBSTITUTION LIST OF
MANUFACTURERS / SUPPLIERS

Bidder proposes the following substitutions and "or equal" items of alternate manufacturers/suppliers for the equipment of material categories so identified:

	<u>Equipment Item Material</u>	<u>Drawing No.</u>	<u>Spec. Section</u>	<u>Substitute/"or equal" Manufacturer/Supplier (List One Only)</u>	<u>Proposed Price Deduct</u>
1.	<u>No</u>	<u>Substitutions</u>			_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____

END OF SECTION

SECTION 00301-A

References

*References who are located in foreign countries are not acceptable.
The Reference Form Must Be Completed and Returned with your Submittal.*

1. Project Name: Please see attached list
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

2. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

3. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

4. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

PROJECT EXPERIENCE

****Not all projects listed****

Owner	Project	Value	Contact	Date
Volusia County	Howland Blvd	3.1mil	Todd Buckles 386-736-5967	2003
Volusia County	10 th St. Improvement	4.5mil	Todd Buckles 386-736-5967	2005
City of Palm Coast	Belle Terre Pkwy	2.4mil	Jim Davis 386-676-0200	2008
Volusia County	Williamson Blvd	3.4mil	Todd Buckles 386-736-5967	2006
Volusia County	Saxon Blvd	3mil	Todd Buckles 386-736-5967	2004
Volusia County	W. Rhode Isl. Ave. Ext.	6.3mil	Todd Buckles 386-736-5967	2009
Town of Pierson	Washington Ave.	109K	Debbie Bass 386-749-2661	2009
City of DeLand	Runway 12 Airport	590K	Keith Riger 386-626-7197	2010
Volusia County	LPGA Blvd	2.2 mil	Todd Buckles 386-736-5967	2010
Flagler County	Two Bridge Replacements	225K	Jim Davis 386-676-0200	2010
City of Ormond Bch	SR40 Multi-Use Trail	180K	Larry Rivera 386-615-7049	2010
Flagler County	CR305 Bridge Replacement	227K	Jim Davis 386-676-0200	2010
City of Ormond Bch	N. Ridgewood Ave. Sidewalk	52K	Larry Rivera 386-615-7049	2011
Flagler County	Matanzas Woods Pkwy	2.1mil	Jim Davis 386-676-0200	2005
City of Palm Coast	Major Rdwy Crossing Culvert Replace.	420K	Brian Rothwell 386-986-3731	2011
Volusia County	Various County Sidewalks	130K	Shaira Resto 386-736-5966	2011
Lake County	S. Umatilla Water System	1.1mil	Alan Kirkland 352-483-9043 (in progress)	2012
Flagler County	CR305/CR304	112K	Steve Blair 386-676-0200	2012
City of Crescent City	Magnolia St. Sewer Line Replace.	20K	Patrick Kennedy 386-698-2525	2012

Sanford/Orlando Int. Airport Runway 9L Extension 1 Mil

Steve Blair, 386-676-0200 20:
(in progress)

FDOT	SR40	1+mil	Anderson/Columbia	386-755-9132	2005
FDOT	SR44	2.3mil	Middlesex Corp.	407-294-5322	2004
FDOT	SR100	690K	P&S Paving	386-258-7911	2004
FDOT	SR100	2+mil	P&S Paving	386-258-7911	2005
FDOT	SR15A	430K	P&S Paving	386-258-7911	2002
FDOT	SR11	317K	P&S Paving	386-258-7911	2007
FDOT	SR50	554K	John Carlo, Inc.	904-696-8865	2009
FDOT	SR600	178K	Halifax Paving, Inc.	386-676-0200	2009-201
FDOT	SR3	307K	P&S Paving,	386-258-7911	2010
FDOT	SR520	377K	Halifax Paving, Inc.	386-676-200	2011
FDOT	SR15/US17	502K	Halifax Paving, Inc.	386-676-0200	2012
FDOT	SR421	109K	Halifax Paving, Inc.	386-676-0200	
FDOT	SR434	2.5 Mil	Halifax Paving, Inc.	386-676-0200 (in progress)	

Howland Blvd	Rdwy construction, storm and water main and force main
10 th St.	Rdwy construction, storm and water and force main
Belle Terre Pkwy	Bridge culvert construction and retaining wall
Williamson Blvd	Rdwy construction, storm and water main and force main
Saxon Blvd	Rdwy construction, storm and water main and force main
W. Rhode Isl. Ave.	Rdwy construction, storm and water main and force main
Matanzas Woods	Bridge culvert and water main
Washington Ave.	Culvert Repair
LPGA Blvd	Rdwy Construction, storm and water main and force main
Runway 12 Airport	Box culvert and stabilization
ALL FDOT Projects	Bridge work, storm drain, bridge culvert, piling , retaining wall, etc.
CR305	Bridge Replacement
S. Umatilla Water System	Underground Utilities
CR305/CR304	Gravity Wall
SR15	Drainage

SECTION 00301-B

QUESTIONNAIRE FORM

DATE: Feb. 27, 2013

PROJECT IDENTIFICATION **CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION "B"**

NAME OF BIDDER: Built-Rite Construction of Central Florida, Inc.

BUSINESS ADDRESS: 402 N. Center St Pierson, FL 32180

TELEPHONE NO.: 386-749-0312

CONTRACTOR'S FLORIDA LICENSE NO.: CWC 057414

The undersigned warrants the truth and accuracy of all statements and answers herein contained. Include additional sheets if necessary.

1. How many years has your organization been in business as a General Contractor?
16 yrs

2. List similar roadway projects that you have undertaken in the most recent three year period. Identify the Owner and a Contact Person:

Project	Municipality / Owner	Contact Name/Number
<u>South Umatilla Water Main System</u>	<u>City of Umatilla / Lake County</u>	<u>Alan Kirkland 352-483-9043</u>

3. Have you ever failed to complete work awarded to you? If so, where and why?
No

4. Name three (3) municipalities for which you have performed similar roadway projects and to which you refer:

City of Umatilla / Lake County
City of Deltona / Volusia County
City of Ormond Bch

5. Have you personally inspected the site of the proposed Work? Describe any anticipated problems with the site and your proposed solutions.

yes.

6. Will you Subcontract any part of this Work? If so, describe which portion(s).

paving, mot, sod, signalization

7. What equipment do you own that is available for the Work?

unlimited equipment resources owned

8. What equipment will you purchase for the Work?

None

9. What equipment will you rent for the Work?

None

10. The following is given as a summary of the Financial Statement of the undersigned: (List Assets and Liabilities and use insert sheet if necessary.)

see attached

11. State the true and exact, correct, and complete name under which you do business.

Bidder is: Built-Rite Construction of Central Florida, Inc.

END OF SECTION

Built-Rite Construction of Central Florida, Inc.
Summary Balance Sheet
As of December 31, 2012

	<u>Dec 31, 12</u>
ASSETS	
Current Assets	
Checking/Savings	298,969.80
Accounts Receivable	430,527.90
Other Current Assets	175,959.00
Total Current Assets	905,456.70
Fixed Assets	796,243.53
Other Assets	-202.79
TOTAL ASSETS	<u><u>1,701,497.44</u></u>
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	370,008.55
Credit Cards	2,410.87
Other Current Liabilities	19,296.38
Total Current Liabilities	391,715.80
Long Term Liabilities	558,000.00
Total Liabilities	949,715.80
Equity	751,781.64
TOTAL LIABILITIES & EQUITY	<u><u>1,701,497.44</u></u>

SECTION 00301-C
Sub Contractors and Affiliates Form

The following are a list of Sub Contractors or Affiliates that will be utilized in this project. Use additional sheets if necessary.

FIRM NAME	TRADE	TELEPHONE AND FAX NUMBER
Halifax Paving, Inc.	Paving	(386) 676-0200 (386) 676-0803
Better Barricades, Inc.	MoT	(386) 427-4971 (386) 427-8285
Chinchor Electric, Inc.	Signalization	(386) 774-1020 (386) 774-7223
Suwannee Valley Grassing, Inc.	Sod	(386) 752-2504 (386) 752 9557
		()
		()
		()
		()
		()

In the event our firm is awarded this bid, the City of Deltona will be notified of any changes made to this Sub Contractors list before and during any and all work performed during this project.

The Sub-Contractor listing Form Must Be Completed and Returned with your Submittal.

SECTION 00301-D

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that
Built-Rite Construction of Central Florida, Inc. does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's 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. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify 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. Impose a sanction on, or require 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. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

X Shondia C. Large
Bidder's Signature
February 27, 2013
Date

This Form Must Be Completed and Returned with your Submittal, if applicable

SECTION 00301-E

HOLD HARMLESS AND INDEMNITY AGREEMENT

*Built-Rite Construction
of Central Florida, Inc.*

agrees through the signing of this document by an authorized party or agent that it shall defend, indemnify and hold harmless the City of Deltona, and its agents, employees, and public officials from and against all suits, losses, claims, demands, judgments of every name and description arising out of or incidental to the performance of this contract or work performed thereunder, whether or not due to or caused by the negligence of the City of Deltona, its agents, employees, and public officials excluding only the sole negligence of the City of Deltona, its agents, employees, and Public Officials.

This provision shall also pertain to any claims brought against the City of Deltona, its agents, employees, and public officials by an employee of the named Contractor, any Sub-contractor, or anyone directly or indirectly employed by any of them.

The Contractor's obligation to indemnify the City of Deltona, its agents, employees and public officials under this provision shall be limited to \$1,000,000 per occurrence which the parties agree bears a reasonable commercial relationship to the contract.

The Contractor agrees to accept, and acknowledges as adequate remunerations, the consideration of \$10, which is part of the agreed bid price, the promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, for agreement to enter into this Hold Harmless and Indemnity Agreement.

Sandra C. Large
CONTRACTOR

February 27, 2013
DATE

This Form Must Be Completed and Returned with your Submittal.

SECTION 00470

SWORN STATEMENT UNDER SECTION 287.133(3)(A), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the City of Deltona by Sandra C. Large, President
(Individual's name and title)

For Built-Rite Construction of Central Florida, Inc.
(Name of entity submitting sworn statement)

Whose business address is 402 N. Center St
Pierson, FL 32180

And (if applicable) its Federal Employer Identification Number (FEIN) is 59-3484839
(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

1. I understand that a "public entity crime" as defined in Section 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 with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or a of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
1. 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 crimes, 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.
2. I understand that an "affiliate" as defined in Section 287.133(1)(a), Florida Statutes, means:

A predecessor or successor of a person convicted of a public entity crime: or an entity under the control of any natural person who is active in the management of the entity and how 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 (1) 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 thirty-six (36) months shall be considered an affiliate.
3. I understand that a "person" as defined in Section 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.

4. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (You must indicate which statement applies.)

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

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before an Administrative Law Jury of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Administrative Law Jury determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (You must attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CITY OF DELTONA IS FOR THE CITY 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 CITY PRIOR TO ENTERING IN TO 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.

Sandra C Large
SIGNATURE

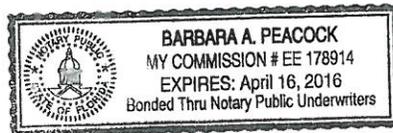
March 4, 2013
DATE

State of Florida
County of Volusia

Personally appeared before me, the undersigned authority, Sandra C Large (name of individual signing) who, after first being sworn by me, affixed his/her signature in the space provided above on the 4th day of March, 20 13.

Barbara A. Peacock
NOTARY PUBLIC

My commission expires:



This Form Must Be Completed and Returned with your Submittal

SECTION 00480
NON COLLUSION AFFIDAVIT FORM

STATE OF FLORIDA

COUNTY OF VOLUSIA

Sandra C. Large, being first duly sworn deposes and says that:

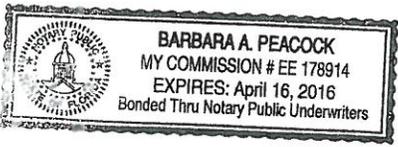
1. He (it) is the President of Built By Const. of Central Florida, Inc., the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

By Sandra C. Large

Sworn and subscribed to before me this 4th day of March, 2013, in the State of Florida, County of Volusia.

Barbara A. Peacock Notary Public

My Commission expires:



This Form Must Be Completed and Returned with your Submittal

SECTION 00490

TRENCH SAFETY AFFIDAVIT

Trench excavations on this Project are expected to be in excess of 5 feet deep. The Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 Subpart P Trench Safety Standards will be in effect during the period of construction of the Project.

Bidder acknowledges that included in the Bid Price are costs for complying with the Florida Trench Safety Act (90-096, Laws of Florida) effective October 1, 1990, and hereby gives assurance that, if awarded the Contract, the Contractor or Subcontractor performing trench excavation work on the Project will comply with the applicable trench safety standards. The Bidder further identified the costs as follows:

**CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION B**

<u>Trench Safety Item (description)</u>	<u>Unit Cost</u>
<u>Lay Back Slopes/Sheet + Shoring as necessary</u>	<u>\$10,000.00</u>

Ten thousand dollars
(Cost in Words)

Total: \$ \$10,000.00

FAILURE TO COMPLETE THE ABOVE SHALL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE.

COMPANY NAME: Built-Rite Construction of Central Florida, Inc.

DATE: Feb. 27, 2013

BY: Sandra C Large

END OF SECTION

<p>SECTION 00300</p> <p>BID RESPONSE FORM</p> <p>BID NO. ITB # PW 13-05</p> <p>Normandy Boulevard (Sec. B)</p> <p>Saxon Blvd to Fort Smith Blvd</p>
--

DATE SUBMITTED: March 4, 2013

PROJECT IDENTIFICATION: **City of Deltona**
ITB # PW 13-05
Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd

NAME OF BIDDER: Gibbs & Register, Inc.

BUSINESS ADDRESS: 232 S. Dillard Street

TELEPHONE NUMBER: 407-654-6133

CONTRACTOR'S FLORIDA LICENSE NO.: CGC1510925

THIS BID IS SUBMITTED TO: **City of Deltona**
Public Works Division
255 Enterprise Road
Deltona, Florida 32725

1. In accordance with the foregoing terms, conditions and specifications, the undersigned bidder, having become familiarized with the conditions affecting the cost of the work and with all requirements of the proposed Bid Documents, and duly issued Addenda to said documents, as acknowledged herein, proposes to furnish and perform all things required in labor, material, necessary tools, expendable equipment, and all services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined and carefully studied the Bidding Documents and the following Addendum receipt of which is hereby acknowledged:

No. <u>1</u>	Dated <u>1.30.2013</u>	No. <u>5</u>	Dated <u>2.27.2013</u>
No. <u>2</u>	Dated <u>2.5.2013</u>	No. <u>6</u>	Dated <u>2.27.2013</u>
No. <u>3</u>	Dated <u>2.12.2013</u>	No. _____	Dated _____
No. <u>4</u>	Dated <u>2.18.2013</u>	No. _____	Dated _____

b. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bid Documents, and Addendum.

- c. All Bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Bid Documents and addendum.
 - d. Bidder declares their bid submittal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder submits the following unit prices to perform all the work as required by the Bid documents and Specifications for the **City of Deltona, Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd.**

All bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place and ready for operation in the manner contemplated by the Bid documents and addendum.

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
101-1	Mobilization	LS	1	\$143,000.00	\$ 143,000.00
102-1	Maintenance of Traffic	LS	1	\$172,500.00	\$ 172,500.00
102-3	Commercial Material for Driveway Maintenance	CY	500	\$40.00	\$ 20,000.00
104-100	Erosion Control Measures	LS	1	\$46,300.00	\$ 46,300.00
110-1-1	Clearing & Grubbing	AC	9	\$17,000.00	\$ 153,000.00
110-7-1	Mailbox, F&I, Single	EA	23	\$170.00	\$ 3,910.00
120-1	Regular Excavation	CY	16,000	\$6.50	\$ 104,000.00
120-6	Embankment	CY	1,500	\$3.00	\$ 4,500.00
160-4	Stabilization, Type B	SY	17,000	\$5.00	\$ 85,000.00
285-70-9	Optional Base Group 9	SY	12,050	\$16.00	\$ 192,800.00
334-1-12	Type SP Structural Course (Traffic Level B)	TN	1,326	\$90.00	\$ 119,340.00
334-7-30	Friction Course (FC-9.5) (Rubber)	TN	663	\$130.00	\$ 86,190.00
400-1-2	Conc. Class I, Endwalls	CY	9	\$550.00	\$ 4,950.00
400-1-11	Conc. Class I, Retaining Walls	CY	0	\$2,000.00	\$ -
425-1-311	Inlets(Curb)(Type P-1)(<10')	EA	22	\$4,500.00	\$ 99,000.00
425-1-321	Inlets(Curb)(Type P-2)(<10')	EA	5	\$5,000.00	\$ 25,000.00
425-1-521	Inlets(DT Bot)(Type C)(<10')	EA	1	\$2,500.00	\$ 2,500.00
425-1-551	Inlets(DT Bot)(Type E (Special Design))	EA	2	\$6,000.00	\$ 12,000.00
425-2-41	Manholes (P-7)(<10')	EA	1	\$2,000.00	\$ 2,000.00
430-171-118	Pipe Culv (Opt Matl)(Round)(18"SS)	LF	1,143	\$55.00	\$ 62,865.00
430-171-124	Pipe Culv (Opt Matl)(Round)(24"SS)	LF	1,125	\$60.00	\$ 67,500.00
430-171-130	Pipe Culv (Opt Matl)(Round)(30"SS)	LF	567	\$75.00	\$ 42,525.00
430-171-142	Pipe Culv (Opt Matl)(Elliptical)(42"SS)	LF	77	\$125.00	\$ 9,625.00
430-982-125	Mitered End Section, Optional Round, 18" CD	EA	3	\$1,100.00	\$ 3,300.00
430-982-133	Mitered End Section, Optional Round, 30" CD	EA	1	\$2,000.00	\$ 2,000.00
520-1-10	Curb & Gutter Conc - Type F	LF	5,690	\$13.00	\$ 73,970.00
522-1	Sidewalk Concrete, 4" Thick	SY	2,731	\$28.00	\$ 76,468.00
522-2	Sidewalk Concrete, 6" Thick	SY	1,072	\$37.00	\$ 39,664.00
524-1-29	Concrete Ditch Pavt, Reinforced 4"	SY	127	\$55.00	\$ 6,985.00
530-3-3	Riprap, Rubble and Filter Fabric	TN	20	\$120.00	\$ 2,400.00
570-1-2	Performance Turf Sodding	SY	18,850	\$3.00	\$ 56,550.00
630-1-12	Conduit (F&I)(Underground)	LF	20	\$15.00	\$ 300.00
630-1-14	Conduit (F&I)(Underground-Jacketed)	LF	140	\$20.00	\$ 2,800.00
632-7-1	Cable (Signal)(F&I)	PI	1	\$5,000.00	\$ 5,000.00
634-4-113	Span Wire Assembly (F&I)(Two Wire)(Box)	PI	1	\$3,500.00	\$ 3,500.00
635-1-11	Pull and Junction Boxes (F&I) (Pull Box)	EA	2	\$580.00	\$ 1,160.00
641-2-16	Prestressed Concrete Strain Pole (F&I) (Type P-VI)	EA	2	\$5,500.00	\$ 11,000.00
650-51-313	Traffic Signal (F&I) (3-Section)(1-Way)(Polycarbonate/LED)	AS	8	\$1,900.00	\$ 15,200.00
653-191	Signal Pedestrian (F&I) (LED Countdown)(1- Way)	AS	4	\$750.00	\$ 3,000.00
653-192	Signal Pedestrian (F&I) (LED Countdown)(2- Way)	AS	1	\$1,550.00	\$ 1,550.00
659-101	Signal Head Auxuillaries (F&I)(Backplates 3 Section)	EA	5	\$175.00	\$ 875.00
659-106	Signal Head Auxuillaries (F&I)(Tunnel Visor)	EA	20	\$9.00	\$ 180.00
660-1-103	Loop Detector, Inductive (F&I)(Type 3, 1CH, SS, S)	EA	4	\$260.00	\$ 1,040.00
660-1-104	Loop Detector, Inductive (F&I)(Type 4, 1CH, SS, S)	EA	1	\$260.00	\$ 260.00
660-2-106	Loop Assembly (F&I)(Type F)	AS	5	\$750.00	\$ 3,750.00
665-13	Detector, Pedestrian (F&I)(Detector w/ Sign)	EA	4	\$170.00	\$ 680.00
670-5-410	Traffic Control Assembly (Modify)(NEMA)	AS	1	\$500.00	\$ 500.00
690-10	Traffic Signal Head Assembly, Remove	EA	8	\$30.00	\$ 240.00
690-20	Pedestrian Signal Assembly, Remove	EA	4	\$53.00	\$ 212.00
690-34-1	Complete Pole removal (Deep) Direct Burial)	EA	2	\$2,600.00	\$ 5,200.00
690-80	Span Wire Assembly (Remove)	EA	1	\$400.00	\$ 400.00
690-90	Remove Cabling and Conduit	PI	1	\$350.00	\$ 350.00
690-100	Signal Equipment, Miscellaneous, Remove	PI	1	\$325.00	\$ 325.00
699-1-1	Internally Illuminated Sign (F&I)(Street Name)	EA	4	\$4,000.00	\$ 16,000.00
700-20-11	Sign, Single Post (< 12 SF)	AS	8	\$200.00	\$ 1,600.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
700-20-40	Sign, Existing (Relocate) (Single Post)	AS	3	\$85.00	\$ 255.00
700-20-60	Sign, Existing (Remove) (Single Post)	AS	10	\$50.00	\$ 500.00
700-46-21	Sign, Existing (Relocate) (Single Post)	AS	14	\$50.00	\$ 700.00
700-48-48	Sign Panel (Relocate)(15 or less SF)	EA	6	\$30.00	\$ 180.00
706-3	Retro-Reflective Pavement Marker	EA	291	\$3.00	\$ 873.00
711-11-111	Thermoplastic, Standard, White, Solid, 6"	NM	1	\$3,300.00	\$ 3,758.70
711-11-123	Thermoplastic, Standard, White, Solid, 12"	LF	463	\$3.30	\$ 1,527.90
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	532	\$4.15	\$ 2,207.80
711-11-151	Thermoplastic, Standard, DOT Guide, 6"	LF	530	\$0.45	\$ 238.50
711-11-160	Thermoplastic, Standard, White, Message	EA	15	\$200.00	\$ 3,000.00
711-11-170	Thermoplastic, Standard, White, Arrow	EA	43	\$55.00	\$ 2,365.00
711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	NM	1	\$3,700.00	\$ 4,403.00
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	105	\$3.35	\$ 351.75
711-11-231	Thermoplastic, Standard, Yellow, Skip, 6"	GM	0.77	\$930.00	\$ 716.10
711-11-251	Thermoplastic, Standard, Yellow, DOT/Guide, 6"	LF	985	\$0.45	\$ 443.25
ROADWAY BASE BID SUBTOTAL					\$ 1,816,484.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost
1	Mobilization/Demobilization	LS	1	\$4,000.00	\$ 4,000.00
2	General Requirements, Bonds and Insurance	LS	1	\$5,000.00	\$ 5,000.00
3	Locate Utilities in Advance of Construction	LS	1	\$2,000.00	\$ 2,000.00
4	Survey Layout and As-Builts	LS	1	\$5,000.00	\$ 5,000.00
5	Furnish and install 4-inch DIP water main (restrained joint)	LF	80	\$45.00	\$ 3,600.00
6	Furnish and install 6-inch PVC water main (restrained joint)	LF	710	\$23.00	\$ 16,330.00
7	Furnish and install 6-inch PVC water main (push)	LF	115	\$16.00	\$ 1,840.00
8	Furnish and install 6-inch DIP water main (restrained joint)	LF	200	\$48.00	\$ 9,600.00
9	Furnish and install 8-inch PVC water main (restrained joint)	LF	30	\$50.00	\$ 1,500.00
10	Furnish and install 8-inch PVC water main (push)	LF	0	\$45.00	\$ -
11	Furnish and install 12-inch DIP water main (restrained joint)	LF	120	\$97.00	\$ 11,640.00
12	Furnish and install 16-inch PVC water main (restrained joint)	LF	2340	\$70.00	\$ 163,800.00
13	Furnish and install 16-inch PVC water main (push)	LF	1030	\$55.00	\$ 56,650.00
14	Furnish and install 16-inch DIP water main (restrained joint)	LF	185	\$130.00	\$ 24,050.00
15	Abandon and grout fill existing water main	LF	4920	\$10.00	\$ 49,200.00
16	Removal and disposal existing water main	LF	2100	\$10.00	\$ 21,000.00
17	4-inch 45 Degree Bend	EA	4	\$200.00	\$ 800.00
18	6-inch 45 Degree Bend	EA	16	\$220.00	\$ 3,520.00
19	6-inch 22.5 Degree Bend	EA	2	\$225.00	\$ 450.00
20	6-inch 11.25 Degree Bend	EA	3	\$230.00	\$ 690.00
21	8-inch 45 Degree Bend	EA	2	\$325.00	\$ 650.00
22	12-inch 45 Degree Bend	EA	4	\$500.00	\$ 2,000.00
23	16-inch 11.25 Degree Bend	EA	7	\$900.00	\$ 6,300.00
24	16-inch 22.5 Degree Bend	EA	1	\$1,000.00	\$ 1,000.00
25	16-inch 45 Degree Bend	EA	34	\$900.00	\$ 30,600.00
26	6-inch Tee	EA	1	\$350.00	\$ 350.00
27	16 x 4-inch Tee	EA	1	\$1,250.00	\$ 1,250.00
28	16 x 6-inch Tee	EA	4	\$1,275.00	\$ 5,100.00
29	16 x 8-inch Tee	EA	1	\$1,300.00	\$ 1,300.00
30	16 x 12-inch Cross	EA	1	\$1,650.00	\$ 1,650.00
31	6 x 4-inch Reducer	EA	2	\$200.00	\$ 400.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
32	16 x 12-inch Reducer	EA	1	\$550.00	\$ 550.00
33	4-inch Gate Valve	EA	1	\$690.00	\$ 690.00
34	6-inch Gate Valve	EA	5	\$875.00	\$ 4,375.00
35	8-inch Gate Valve	EA	1	\$1,250.00	\$ 1,250.00
36	12-inch Gate Valve	EA	3	\$2,100.00	\$ 6,300.00
37	16-inch Gate Valve	EA	4	\$4,700.00	\$ 18,800.00
38	Air Release Valve	EA	6	\$5,600.00	\$ 33,600.00
39	Fire Hydrant	EA	11	\$4,250.00	\$ 46,750.00
40	1-inch Single Service - Short	EA	13	\$800.00	\$ 10,400.00
41	1-inch Single Service - Long	EA	5	\$2,100.00	\$ 10,500.00
42	1-inch Double Service - Short	EA	5	\$820.00	\$ 4,100.00
43	1-inch Double Service - Long	EA	14	\$2,500.00	\$ 35,000.00
44	4-inch Direct Connect & Fitting Assembly - Potable	EA	4	\$950.00	\$ 3,800.00
45	6-inch Direct Connect & Fitting Assembly - Potable	EA	2	\$1,800.00	\$ 3,600.00
46	8-inch Direct Connect & Fitting Assembly - Potable	EA	1	\$1,800.00	\$ 1,800.00
47	12-inch Direct Connect & Fitting Assembly - Potable	EA	3	\$1,900.00	\$ 5,700.00
48	Testing and Laboratory Services (Allowance)	LS	1	\$5,000.00	\$ 5,000.00
SUBTOTAL UTILITY BASE BID					\$ 623,485.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

SUBTOTAL ROADWAY BASE BID:

ONE MILLION EIGHT HUNDRED SIXTEEN THOUSAND
FOUR HUNDRED EIGHTY-FOUR AND ⁰⁰/₁₀₀ DOLLARS
(IN WORDS)

\$ 1,816,484.00
(IN FIGURES)

SUBTOTAL UTILITY BASE BID:

SIX HUNDRED TWENTY-THREE THOUSAND FOUR
HUNDRED EIGHTY-FIVE AND ⁰⁰/₁₀₀ DOLLARS
(IN WORDS)

\$ 623,485.00
(IN FIGURES)

TOTAL ROADWAY & UTILITY BASE BID:

TWO MILLION FOUR HUNDRED THIRTY-NINE THOUSAND
NINE HUNDRED SIXTY-NINE AND ⁰⁰/₁₀₀ DOLLARS
(IN WORDS)

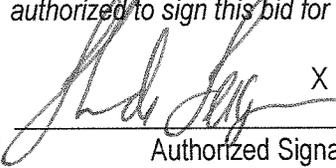
\$ 2,439,969.00
(IN FIGURES)

1. The following documents are attached to and made a condition of this Bid:

1. Bid Response Forms (Bidding Documents, entire Section 00300).
2. Bidders Contact and Information Form (Section 00301).
3. References (Section 00301-A).
4. Questionnaire Form (Section 00301-B)
5. Sub-Contractors and Affiliates Form (Section 00301-C)
6. Bid Bond or security (surety bond or cashier's check). (Section 00410).
7. Power of Attorney (for surety bond only).
8. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420).
9. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Section 00470)
10. Non-collusion Affidavit (Section 00480).
11. Trench Safety Affidavit (Section 00490).

END OF SECTION

SECTION 00301
BIDDERS CONTACT AND INFORMATION FORM

Bidder (Company) Name: Gibbs & Register, Inc.	F. E. I. N. or SS Number: 59-3026022
Mailing Address: 232 S. Dillard Street	Street Address: 232 S. Dillard Street
City, State, Zip: Winter Garden, FL 34787	City, State, Zip: Winter Garden, FL 34787
Type of Entity: <i>(Circle one)</i> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"><input checked="" type="radio"/> Corporation</div> <div style="text-align: center;"><input type="radio"/> Partnership</div> <div style="text-align: center;"><input type="radio"/> Proprietorship</div> <div style="text-align: center;"><input type="radio"/> Joint Venture</div> </div>	<i>I hereby certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies or equipment, and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the Bidder.</i>  _____ Authorized Signature (Manual)
Incorporated in the State of: Florida Year: 1990	Typed or Printed Name: Theodore Ferguson
Telephone Number: (407) 654-6133	Title: President
Fax Number: (407) 905-2941	
Email contact info: estimating@gibbsandregister.com	

This Form Must Be Completed and Returned with your Submittal

SECTION 00301-A

References

*References who are located in foreign countries are not acceptable.
The Reference Form Must Be Completed and Returned with your Submittal.*

1. Project Name: North Perimeter Road Improvements
Project Value: \$2,964,312.76
Project Description: 4,000LF of roadway improvements
Project Owner: City of New Orleans
Project Owner's contact info: Jay Scalise, 504-466-3350 x116
Project Location: Louisiana/New Orleans International Airport
Project Start and End Dates: January 2011 - September 2011

2. Project Name: SR 70 Okeechobee Road - T4306
Project Value: \$4,712,506.90
Project Description: Reconstruction of SR 70
Project Owner: FDOT
Project Owner's contact info: Warren Crittenden, 772-489-8410
Project Location: St. Lucie County Florida
Project Start and End Dates: July 2011 - December 2012

3. Project Name: SR 64 Manatee Avenue - E1H79
Project Value: \$6,024,707.04
Project Description: Design-Build - Resurfacing
Project Owner: FDOT
Project Owner's contact info: Lance Grace, 941-359-7315
Project Location: Bradenton, Florida
Project Start and End Dates: February 2010 - May 2012

4. Project Name: Sand Lake & Turkey Lake Road Intersection
Project Value: \$2,344,038.00
Project Description: intersection improvements w/ utility relocation
Project Owner: Orange County c/o Trimont Real Estate Advisors
Project Owner's contact info: Jerry Nugent, 407-260-5252
Project Location: Orange County, Florida
Project Start and End Dates: July 2008 - April 2009

5. Project Name: Casselberry Streetscape SR 15/600 - US 17-92
Project Value: \$949,297.87
Project Description: hardscape improvements, landscpaing & irrigation
Project Owner: City of Casselberry
Project Owner's contact info: Marty Pawlikowski, 407-262-7725 x1237
Project Location: City of Casselberry, Florida
Project Start and End Dates: September 2011 - June 2012

6. Project Name: Semoran Blvd Improvements, Project #1440
Project Value: \$2,140,000.00
Project Description: Design-Build
Project Owner: City of Orlando
Project Owner's contact info: Mark Porter, 407-660-2552
Project Location: SR 436 Orange County, Florida
Project Start and End Dates: July 2012 - In-progress

7. Project Name: Lake Underhill Rd. Roadway Reconstruction
Project Value: \$1,731,300.00
Project Description: roadway reconstruction at specified locations
Project Owner: Orange County
Project Owner's contact info: Elizabeth White, 407-836-7751
Project Location: Lake Underhill Rd., Orange County, Florida
Project Start and End Dates: November 2012 - In-progress

8. Project Name: SR 5 (US 1) T4331
Project Value: \$12,844,415.00
Project Description: Resurfacing, Drainage & Roadway Reconstruction
Project Owner: FDOT
Project Owner's contact info: Jim Lewis, 561-662-4645
Project Location: Riviera Beach, Florida
Project Start and End Dates: July 2012 - In-progress

SECTION 00301-B
QUESTIONNAIRE FORM

DATE: 2.28.2013

PROJECT IDENTIFICATION **CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION “B”**

NAME OF BIDDER: Gibbs & Register, Inc.

BUSINESS ADDRESS: 232 S. Dillard St., Winter Garden, FL 34787

TELEPHONE NO.: 407-654-6133

CONTRACTOR'S FLORIDA LICENSE NO.: CGC1510925

The undersigned warrants the truth and accuracy of all statements and answers herein contained. Include additional sheets if necessary.

1. How many years has your organization been in business as a General Contractor? 23

2. List similar roadway projects that you have undertaken in the most recent three year period. Identify the Owner and a Contact Person:

<u>Project</u>	<u>Municipality / Owner</u>	<u>Contact Name/Number</u>
<u>SR70 Okeechobee Rd.- T4306</u>	<u>FDOT</u>	<u>Warren Crittenden/772-489-8410</u>
<u>SR64 Manatee Ave. - E1H79</u>	<u>FDOT</u>	<u>Lance Grace/941-359-7315</u>
<u>SR5 (US1) - T4331</u>	<u>FDOT</u>	<u>Jim Lewis/561-662-4645</u>

3. Have you ever failed to complete work awarded to you? If so, where and why?
No.

4. Name three (3) municipalities for which you have performed similar roadway projects and to which you refer:
City of Casselberry
City of New Orleans
FDOT

5. Have you personally inspected the site of the proposed Work? Describe any anticipated problems with the site and your proposed solutions.

YES. MULTIPLE UTILITIES IN THE GROUND : SHORT DURATION OF WORK. MODIFYING MOT PLAN TO WORK MULTIPLE SCOPES SIMULTANEOUSLY.

6. Will you Subcontract any part of this Work? If so, describe which portion(s).

YES.
ASPHALT PAVING
STRIPING / SIGNAGE
SIGNALIZATION

7. What equipment do you own that is available for the Work?

Please see attached Equipment List

8. What equipment will you purchase for the Work?

NONE

9. What equipment will you rent for the Work?

GIBBS : REGISTER, INC. HOLDS A LONG-TERM LEASING AGREEMENT WITH FLOWER EQUIPMENT : CONTRACT FOR ALL NECESSARY KEY EQUIPMENT NOT CURRENTLY OWNED.

10. The following is given as a summary of the Financial Statement of the undersigned: (List Assets and Liabilities and use insert sheet if necessary.)

Please see enclosed Financial Statement

11. State the true and exact, correct, and complete name under which you do business.

Bidder is: Gibbs & Register, Inc.

END OF SECTION

GIBBS & REGISTER, INC.

MASTER EQUIPMENT/VEHICLE LISTING

Mark	8/2/12
Cindy	
Kevin	2/7/13

ID #	MAKE	MODEL	YEAR	TYPE	VIN / SERIAL #	DRIVER
HE524	LAYMOR	8HB	2003	BROOM	29567	
HE526	HAMM	3307	2003	ROLLER (66")	50282	
HE630	CAT	M318C	2004	EXCAVATOR	M318CCBCZ00844	
HE637	WACKER	RD11A	2003	ROLLER (36")	5405926	
HE645	JOHN DEERE	544J	2008	LOADER	DW544JZ616019	
HE648	CAT	289C	2009	TRACK SKID STEER	0289CCJMP00256	
HE651	JOHN DEERE	650J	2008	DOZER	T0650JX159987	
HE652	JOHN DEERE	672GP	2012	GRADER	1DW672GPACE645532	
HE653	JOHN DEERE	624K	2012	LOADER	1DW624KZKCE645091	
HE654	JOHN DEERE	544K	2012	LOADER	1DW544KZKCE646053	
HE655	JOHN DEERE	333D	2012	TRACK SKID STEER	1T0333DMTCD226048	
HE656	VOLVO	L35B	2012	LOADER	VCEOL35BC01886208	
LV315	FORD	F-350	2003	CREW TRUCK	1FDWX36PX3EC03573	TRADE
LV322	FORD	F-550	2005	LUBE TRUCK	1FDAF56P85EB82153	TRADE
LV327	PETERBILT	357	2006	DUMP TRUCK (20YD)	1NPAL00X96N894299	COLIN DELAHUNTY
LV328	FORD	F-350	2005	CREW TRUCK	1FDWW36P56EA19987	SPARE
LV332	FORD	F-350	2006	CREW TRUCK	1FDWW36P96EA19989	TRADE
LV336	FORD	F-450	2012	CREW TRUCK	1FD0W4GT2CEA34000	JOSE GUEVARA
LV337	FORD	F-450	2012	CREW TRUCK	1FD0W4GT7CEC51252	JOSE GARCIA
LV338	FORD	F-450	2012	CREW TRUCK	1FD0W4GT9CEC51253	RALPH CORREA
LV339	FORD	F-450	2012	CREW TRUCK	1FD0W4GT7CED20201	OMAR NUNEZ
LV340			2013	CREW TRUCK		LOWELL WELLS
LV341			2013	SERVICE TRUCK		
PU234	FORD	F-150	2005	XLT PICK-UP	1FTPX12585NB54992	RICHARD BROWN
PU237	FORD	500	2005	FORD 500 CAR	1FAFP23145G166595	LOUISIANA
PU249	FORD	F-150	2006	XLT PICK-UP	1FTPX12596NA51632	BRIAN BROOKS

SECTION 00301-C
Sub Contractors and Affiliates Form

The following are a list of Sub Contractors or Affiliates that will be utilized in this project. Use additional sheets if necessary.

FIRM NAME	TRADE	TELEPHONE AND FAX NUMBER
CHEYENNE ASPHALT, INC.	ASPHALT PAVING	(352) 544-2723 (352) 797-0476
TRAFFIC CONTROL DEVICES, INC.	SIGNALIZATION	(407) 869-5300 (407) 682-0076
FAUSNIGHT SIGNS STRIPES ^{FF} LINE, INC.	STRIPING & SIGNAGE	(407) 261-5446 (407) 261-5449
A-I FLORIDA SOD, INC.	SODDING	(863) 424-6222 (863) 424-6811
		()
		()
		()
		()
		()

In the event our firm is awarded this bid, the City of Deltona will be notified of any changes made to this Sub Contractors list before and during any and all work performed during this project.

The Sub-Contractor listing Form Must Be Completed and Returned with your Submittal.

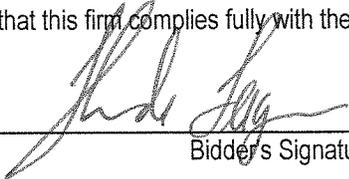
SECTION 00301-D

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that Gibbs & Register, Inc. does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's 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. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify 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. Impose a sanction on, or require 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. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

X 
Bidders Signature Theodore Ferguson, President
2.28.2013
Date

This Form Must Be Completed and Returned with your Submittal, if applicable

SECTION 00301-E

HOLD HARMLESS AND INDEMNITY AGREEMENT

Gibbs & Register, Inc., agrees through the signing of this document by an authorized party or agent that it shall defend, indemnify and hold harmless the City of Deltona, and its agents, employees, and public officials from and against all suits, losses, claims, demands, judgments of every name and description arising out of or incidental to the performance of this contract or work performed thereunder, whether or not due to or caused by the negligence of the City of Deltona, its agents, employees, and public officials excluding only the sole negligence of the City of Deltona, its agents, employees, and Public Officials.

This provision shall also pertain to any claims brought against the City of Deltona, its agents, employees, and public officials by an employee of the named Contractor, any Sub-contractor, or anyone directly or indirectly employed by any of them.

The Contractor's obligation to indemnify the City of Deltona, its agents, employees and public officials under this provision shall be limited to \$1,000,000 per occurrence which the parties agree bears a reasonable commercial relationship to the contract.

The Contractor agrees to accept, and acknowledges as adequate remunerations, the consideration of \$10, which is part of the agreed bid price, the promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, for agreement to enter into this Hold Harmless and Indemnity Agreement.



CONTRACTOR
Theodore Ferguson, President

2.28.2013

DATE

This Form Must Be Completed and Returned with your Submittal.

SECTION 00301-F

Statement of No Bid

Bid No.: ITB # PW 13-05 Normandy Blvd (Sec B) Saxon Blvd. to Fort Smith Blvd

If your company does not intend to bid on this Procurement, please complete and return this form prior to the date shown for receipt of bids to: PUBLIS WORKS DIVISION, CITY OF DELTONA, Purchasing Agent, 255 Enterprise Road, Deltona, FL 32725.

We, the undersigned, have declined to bid on the above referenced Invitation to Bid for the following reason(s):

- Specifications are too "restrictive." (Please explain below)
- Unable to meet specifications
- Specifications were unclear. (Please explain below)
- Insufficient time to respond
- We do not offer this type of product or equivalent
- Our production schedule would not permit us to perform
- Unable to meet bond requirements
- Other (please explain below)

REMARKS:

<hr/> <p style="text-align: center;">Company Name</p>	<hr/> <p style="text-align: center;">Telephone</p>		
<hr/> <p style="text-align: center;">X Signature</p>	<hr/> <p style="text-align: center;">Fax</p>		
<hr/> <p style="text-align: center;">Title</p>	<hr/> <p style="text-align: center;">Typed or Printed Name</p>		
<hr/> <p>Address</p>	<hr/> <p>City</p>	<hr/> <p>State</p>	<hr/> <p>Zip</p>

SECTION 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, Gibbs & Register, Inc as Principal, and Western Surety Company as Surety, are hereby held and firmly bound unto the City of Deltona, Florida as Owner in the penal sum of, (five percent 5%) of the Contract Bid) Flve Percent of Amount Bid for the payment of which, well and truly to be made, we hereby and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.
Signed, this 28th day of February, 2013.

The condition of the above obligation is such that whereas the Principal has submitted to City of Deltona, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for Roadway Improvements.

NOW THEREFORE,

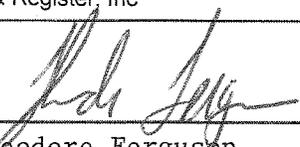
1. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder's bid and Bidder delivers within the time required by the Bidding Documents (or an extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents, or
 - 2.2 All bids are rejected by Owner, or
 - 2.3 Owner fails to issue a notice of award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this Bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, providing that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
5. No suite or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
6. Any suite or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the part concerned.
8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
9. This bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term "bid" as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name):

Gibbs & Register, Inc

By:  (LS)

Theodore Ferguson

Title: President

Attest: 

Signature and Title
Heather G. Winters, Secretary

Surety (Print Full Name):

Western Surety Company (Seal)

Surety's Name and Corporate Seal

By: 

Signature (attach power of attorney)

Title: Benjamin H. French, Attorney-In-Fact & FL Resident Agent

Attest: 

Signature and Title CSR

02/28/2013

(Date)

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida. See Article 5 of the General Conditions as amended by Supplementary Conditions.

END OF SECTION

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Dale Waldorff, Benjamin H French, Pamela L Jarman, Paul A Locascio, K Wayne Walker, Sheree W Lewis, Rebekah G Wolf, Individually

of Fort Walton Beach, FL, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 26th day of October, 2012.

WESTERN SURETY COMPANY



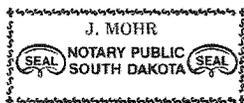
Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 26th day of October, 2012, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2015



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 28th day of February, 2013



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

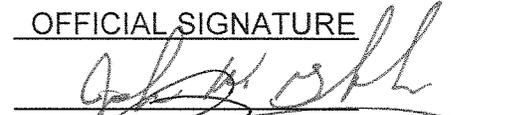
SECTION 00420

CORPORATE RESOLUTION

I, Heather Winters, Secretary of Gibbs & Register, Inc., a corporation organized and existing under the laws of the state of Florida, hereby certify that at a meeting of the Board of Directors of the Corporation duly called and held on November 29, 2010 at which a quorum was present and acting throughout, the following resolutions were adopted and are now in full force and effect:

RESOLVED that the following individuals of this corporation are authorized to execute on behalf of this corporation a Bid and Agreement to CONSTRUCT for the construction of Roadway improvements on ~~Fort Smith Boulevard~~ NORMANDY BOULEVARD (Section 2).TF

I further certify that the names of the officers of this corporation and any other persons authorized to act under this resolution and their official signatures are as follows:

<u>NAME</u>	<u>OFFICE</u>	<u>OFFICIAL SIGNATURE</u>
<u>John W. Gibbs</u>	<u>CEO</u>	
<u>Mark G. Bateman</u>	<u>CFO</u>	
<u>Theodore Ferguson</u>	<u>President</u>	
<u>Heather G. Winters</u>	<u>Secretary</u>	<u>Heather G. Winters</u>

IN WITNESS THEREOF, I have hereunto subscribed my name as Secretary and affixed the seal of the corporation this 28 day of February, 20 13.

END OF SECTION

SECTION 00470

SWORN STATEMENT UNDER SECTION 287.133(3)(A), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the City of Deltona by Theodore Ferguson, President
(Individual's name and title)

For Gibbs & Register, Inc.
(Name of entity submitting sworn statement)

Whose business address is 232 S. Dillard Street
Winter Garden, FL 34787

And (if applicable) its Federal Employer Identification Number (FEIN) is 59-3026022
(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

1. I understand that a "public entity crime" as defined in Section 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 with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or a of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

1. 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 crimes, 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.

2. I understand that an "affiliate" as defined in Section 287.133(1)(a), Florida Statutes, means:

A predecessor or successor of a person convicted of a public entity crime: or an entity under the control of any natural person who is active in the management of the entity and how 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 (1) 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 thirty-six (36) months shall be considered an affiliate.

3. I understand that a "person" as defined in Section 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.

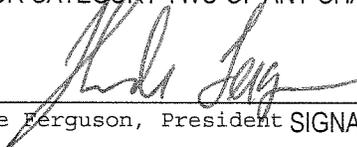
4. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (You must indicate which statement applies.)

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

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before an Administrative Law Jury of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Administrative Law Jury determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (You must attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CITY OF DELTONA IS FOR THE CITY 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 CITY PRIOR TO ENTERING IN TO 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.



Theodore Ferguson, President SIGNATURE

February 28, 2013

DATE

State of Florida
County of Orange

Personally appeared before me, the undersigned authority, Theodore Ferguson (name of individual signing) who, after first being sworn by me, affixed his/her signature in the space provided above on the 28 day of February, 20 13.



NOTARY PUBLIC

My commission expires:
6-16-2015

NOTARY PUBLIC-STATE OF FLORIDA

Cynthia D. Turner
Commission # EE101960
Expires: JUN. 16, 2015
BONDED THRU ATLANTIC BONDING CO., INC.

This Form Must Be Completed and Returned with your Submittal

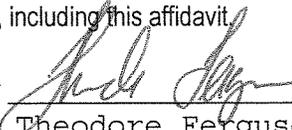
SECTION 00480
NON COLLUSION AFFIDAVIT FORM

STATE OF FLORIDA

COUNTY OF VOLUSIA

Theodore Ferguson, being first duly sworn deposes and says that:

1. He (it) is the President, of Gibbs & Register, Inc., the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

By 
Theodore Ferguson, President

Sworn and subscribed to before me this 28 day of February, 2013, in the State of Florida, County of Orange.

 Notary Public

My Commission expires:

6-16-2015

NOTARY PUBLIC-STATE OF FLORIDA *This Form Must Be Completed and Returned with your Submittal*



Cynthia D. Turner
Commission # EE101960
Expires: JUN. 16, 2015

BONDED THRU ATLANTIC BONDING CO., INC.

SECTION 00490

TRENCH SAFETY AFFIDAVIT

Trench excavations on this Project are expected to be in excess of 5 feet deep. The Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 Subpart P Trench Safety Standards will be in effect during the period of construction of the Project.

Bidder acknowledges that included in the Bid Price are costs for complying with the Florida Trench Safety Act (90-096, Laws of Florida) effective October 1, 1990, and hereby gives assurance that, if awarded the Contract, the Contractor or Subcontractor performing trench excavation work on the Project will comply with the applicable trench safety standards. The Bidder further identified the costs as follows:

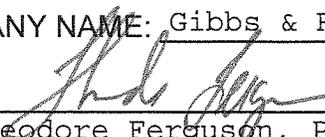
**CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION B**

<u>Trench Safety Item (description)</u>	<u>Unit Cost</u>
<u>TRENCH BOXES</u>	<u>10,000⁰⁰</u>
<u>TEN THOUSAND AND ⁰⁰/₁₀₀ DOLLARS</u>	
(Cost in Words)	
	Total: \$ <u>10,000⁰⁰</u>

FAILURE TO COMPLETE THE ABOVE SHALL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE.

COMPANY NAME: Gibbs & Register, Inc.

DATE: 2.28.2013

BY: 
Theodore Ferguson, President

END OF SECTION

AC#6287666

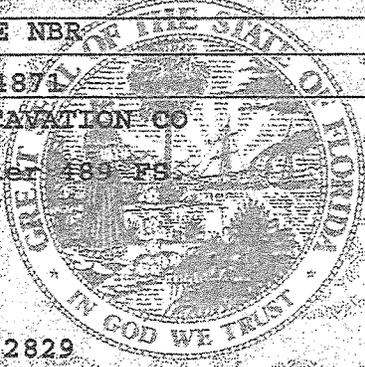
STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12082102492

DATE	BATCH NUMBER	LICENSE NBR
08/21/2012	128000137	CUC1224871

The UNDERGROUND UTILITY & EXCAVATION CO
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS
Expiration date: AUG 31, 2014



RODRIGUEZ, JOHN EDWARD
GIBBS & REGISTER, INC.
5295 ADAIR OAK DRIVE
ORLANDO FL 32829

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW



STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 CONSTRUCTION INDUSTRY LICENSING BOARD
 1940 NORTH MONROE STREET
 TALLAHASSEE FL 32399-0783

(850) 487-1395

RECEIVED
 JUN 11 2012
 BY: _____

FERGUSON, THEODORE P
 GIBBS & REGISTER INC
 232 SOUTH DILLARD STREET
 WINTER GARDEN FL 34787

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridallicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA AC# 6151335
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CGC1510925 06/04/12 118197807

CERTIFIED GENERAL CONTRACTOR
 FERGUSON, THEODORE P
 GIBBS & REGISTER INC

IS CERTIFIED under the provisions of Ch. 489 FS
 Expiration date: AUG 31, 2014 L12060400773

DETACH HERE

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINEMARK • PATENTED PAPER

AC# 6151335

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L12060400773

DATE	BATCH NUMBER	LICENSE NBR
06/04/2012	118197807	CGC1510925

The GENERAL CONTRACTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2014

FERGUSON, THEODORE P
 GIBBS & REGISTER INC
 232 S DILLARD ST
 WINTER GARDEN FL 34787

RICK SCOTT
 GOVERNOR

KEN LAWSON
 SECRETARY

DISPLAY AS REQUIRED BY LAW



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

GIBBS & REGISTER INC
232 SOUTH DILLARD STREET
WINTER GARDEN FL 34787

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbecue restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA AC# 4448900
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

QB31917 06/18/09 088228735

QUALIFIED BUSINESS ORGANIZATION
GIBBS & REGISTER INC

(NOT A LICENSE TO PERFORM WORK.
ALLOWS COMPANY TO DO BUSINESS IF
IT HAS A LICENSED QUALIFIER.)

IS QUALIFIED under the provisions of Ch. 489 FS
Expiration date: AUG 31, 2011 L09061800593

DETACH HERE

AC# 4448900

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L09061800593

DATE	BATCH NUMBER	LICENSE NBR
06/18/2009	088228735	QB31917

The BUSINESS ORGANIZATION
Named below IS QUALIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2011
(THIS IS NOT A LICENSE TO PERFORM WORK. THIS ALLOWS
COMPANY TO DO BUSINESS ONLY IF IT HAS A QUALIFIER.)
GIBBS & REGISTER INC
232 SOUTH DILLARD STREET
WINTER GARDEN FL 34787

CHARLIE CRIST
GOVERNOR

DISPLAY AS REQUIRED BY LAW

CHARLES W. DRAGO
SECRETARY

CONSTRUCTION INDUSTRY LICENSING BOARD
FREQUENTLY ASKED QUESTIONS AND ANSWERS

CERTIFICATE OF AUTHORITY ELIMINATION
HB 425 (2009) IMPLEMENTATION

CERTIFICATES OF AUTHORITY/QUALIFIED BUSINESS LICENSES

Effective October 1, 2009, the Department of Business and Professional Regulation will no longer issue Certificates of Authority (qualified business licenses). HB 425 eliminated the requirement for a separate business license for construction companies in Florida. Contractors will still be required to qualify construction businesses with their license and provide background information for the business they are seeking to qualify.

1. When does the new law take effect?

Beginning October 1, 2009 the Department of Business and Professional Regulation will not issue a separate certificate of authority (also known as "qualified business license") for construction businesses.

2. Will contractors still be required to qualify a construction business?

Yes, contractors will still be required to qualify a construction business with their individual license.

3. Will contractors still be required to provide the same background information to qualify a business?

Yes, contractors will still be required to provide the same background information to qualify a construction company.

4. Will the name of the construction business be listed on the contractor's license?

Yes, the name of the qualified business will continue to be placed on the contractor's license.

5. What happens to my existing certificate of authority?

The certificate of authority will no longer be regarded as a license, but the business information will remain on the Department's public website.

6. Will my application and renewal fees change?

The application fees for an initial contractor's license or change of status will remain the same. However, beginning with the renewal cycle in the year 2011, all licenses that qualify a business entity will be assessed an additional business qualification fee of \$50 in addition to the regular renewal fee.



CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

P: 407.656.4111
WWW.WINTERGARDEN-FL.GOV

WINTER GARDEN • A charming little city with a juicy past.

LOCAL BUSINESS TAX RECEIPT FOR CITY OF WINTER GARDEN

Business Name: GIBBS & REGISTER INC
Receipt No: 13-00004435
Tax/Add'tl Tax: \$ 86.00 \$
Late Penalty: \$ 0.00
Total Paid: \$ 0.00

Location: 232 S DILLARD ST
Class: GENERAL CONTRACTOR
Issue Date: August 09, 2012
Expires: September 30, 2013
Restrictions: AS PER LETTER OF 17704 ON FILE IN THE PLANNING
Comments: D E P T

GIBBS & REGISTER INC
232 S DILLARD ST

WINTER GARDEN FL 34787

BUSINESS TAX RECEIPT MUST BE POSTED IN CONSPICUOUS PLACE AT ALL TIMES.

*****PLEASE NOTE THE TOP PORTION IS YOUR 2013 LOCAL BUSINESS TAX RECEIPT AND IS PAID THRU SEPTEMBER 30, 2013*****

1. Business Tax Year is from October 1 through September 30. Tax fees are prorated after April 1 for a half-year fee.
2. All new commercial business tax must be inspected by the Fire Department to meet all applicable state and city code requirements. You will be contacted to make arrangements for your inspection.
3. An Orange County Business Tax must be paid **AFTER YOU HAVE BEEN ISSUED THE WINTER GARDEN BUSINESS TAX RECEIPT**. They are located at 201 S Rosalind Ave, 2nd FL, Orlando, (407) 836-5650.

Earl K. Wood, Tax Collector Local Business Tax Receipt Orange County, Florida

This local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other lawful authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

ORIGINAL 2012 EXPIRES 9/30/2013 1801-0078550
1801 CERT GENERAL CONTR \$40.00 11 EMPLOYEES; 5000 BUSINESS OFFICE \$40.00 20 EMPLOYEES;

TOTAL TAX \$80.00
PREVIOUSLY PAID \$80.00
TOTAL DUE \$0.00



FERGUSON THEODORE - QUALIFIER
GIBBS & REGISTER INC
FERGUSON THEODORE - QUALIFIER
232 S DILLARD ST
WINTER GARDEN FL 34787-3586

232 S DILLARD ST
C - WINTER GARDEN, 34787
PAID: \$80.00 23-037162 9/11/2012

This receipt is official when validated by the Tax Collector.

State of Florida
Board of Professional Engineers

John William Gibbs, P.E.



IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION: 2/28/2013 P.E. LIC. NO: 24645
AUDIT NO: 228201326340

FLORIDA STATE BOARD
of
PROFESSIONAL ENGINEERS

CERTIFICATE No. EB-0005807

CERTIFICATE OF AUTHORIZATION PERMITTING INDIVIDUAL REGISTERED PROFESSIONAL ENGINEERS TO OFFER PROFESSIONAL SERVICES TO THE PUBLIC THROUGH A CORPORATION, PARTNERSHIP, FICTITIOUS NAME OR ASSOCIATION.

WHEREAS GIBBS & REGISTER CONSULTING, INC.
HAS MET THE REQUIREMENTS OF CHAPTER 471.023, FLORIDA STATUTES,
FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS,
AUTHORIZES THE SAID CORPORATION
TO OFFER TO THE PUBLIC PROFESSIONAL ENGINEERING
SERVICES OF THE FOLLOWING LISTED INDIVIDUALS:
JOHN W. GIBBS #PE0024645



IN TESTIMONY WHEREOF, WITNESS THE SIGNATURE OF THE DIRECTOR UNDER SEAL OF THE BOARD

THIS 3rd DAY OF October 1990

[SEAL]

Robert D. Lester
DIRECTOR



State of Florida
Board of Professional Engineers
2507 Calloway Road, Suite 200
Tallahassee, FL 32303-5268

RECEIVED
MAR 28 2011
ORLANDO

Gibbs & Register, Inc.
232 SOUTH DILLARD STREET
WINTER GARDEN, FL 34787

Each licensee is solely responsible for notifying the Florida Board of Professional Engineers in writing the licensee's current address.

Name changes require legal documentation showing name change. An original, a certified copy, or a duplicate of an original or certified copy of a document which shows the legal name change will be accepted unless there is a question about the authenticity of the document raised on its face, or because the genuineness of the document is uncertain, or because of another matter related to the application.

At least 90 days prior to the expiration date shown on this license, a notice of renewal will be sent to your last known address. If you have not yet received your notice 60 days prior to the expiration date, please call (850) 521-0500, or write, Florida Board of Professional Engineers, 2507 Calloway Road, Suite 200, Tallahassee, FL 32303-5268 or e-mail board@fbpe.org. Our website address is <http://www.fbpe.org>.

State of Florida

Board of Professional Engineers

Gibbs & Register, Inc.



Is authorized under the provisions of Section 471.01, Florida Statutes, to offer engineering services to the public through a Professional Engineer licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201303395

CA. Lic. No:
26472

State of Florida

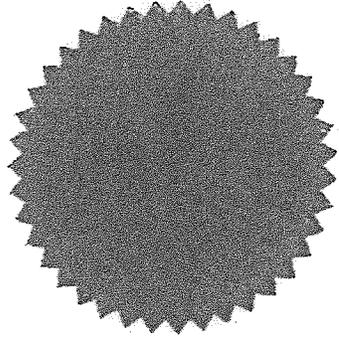


Board of Professional Engineers

Attests that

Gibbs & Register Inc.

Has satisfied the requirements of Section 474.023, Florida Statutes. In recognition thereof, the Board of Professional Engineers hereby authorizes this firm to offer engineering services in the State of Florida in accordance with Chapter 474, Florida Statutes, and the rules of the Board.



*Witness the Fact of the Board and the Signature
of the Board's duly authorized Chair*

CERTIFICATE OF
AUTHORIZATION NO. 26472

this 15 day of JUN , 20 05

Robt J. Montoya
CHAIR

State of Florida

Department of State

I certify from the records of this office that GIBBS & REGISTER, INC. is a corporation organized under the laws of the State of Florida, filed on September 17, 1990, effective September 13, 1990.

The document number of this corporation is S02325.

I further certify that said corporation has paid all fees due this office through December 31, 2013, that its most recent annual report/uniform business report was filed on February 5, 2013, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this is
the Fifth day of February, 2013*



Ken DeFina
Secretary of State

Authentication ID: CC4293437229

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certauthver.html>

SECTION 00300
BID RESPONSE FORM
BID NO. ITB # PW 13-05
Normandy Boulevard (Sec. B)
Saxon Blvd to Fort Smith Blvd

DATE SUBMITTED: 2-26-13

PROJECT IDENTIFICATION: **City of Deltona**
ITB # PW 13-05
Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd

NAME OF BIDDER: P+S Paving, Inc

BUSINESS ADDRESS: 3701 Olson Drive Daytona Beach, FL 32124

TELEPHONE NUMBER: 386-258-7911

CONTRACTOR'S FLORIDA LICENSE NO.: CGC 056994

THIS BID IS SUBMITTED TO: **City of Deltona**
Public Works Division
255 Enterprise Road
Deltona, Florida 32725

1. In accordance with the foregoing terms, conditions and specifications, the undersigned bidder, having become familiarized with the conditions affecting the cost of the work and with all requirements of the proposed Bid Documents, and duly issued Addenda to said documents, as acknowledged herein, proposes to furnish and perform all things required in labor, material, necessary tools, expendable equipment, and all services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined and carefully studied the Bidding Documents and the following Addendum receipt of which is hereby acknowledged:

No. <u>1</u>	Dated <u>1-30-13</u>	No. <u>5</u>	Dated <u>2-27-13</u>
No. <u>2</u>	Dated <u>2-5-13</u>	No. <u>6</u>	Dated <u>2-27-13</u>
No. <u>3</u>	Dated <u>2-12-13</u>	No. _____	Dated _____
No. <u>4</u>	Dated <u>2-18-13</u>	No. _____	Dated _____

b. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bid Documents, and Addendum.

- c. All Bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Bid Documents and addendum.
 - d. Bidder declares their bid submittal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder submits the following unit prices to perform all the work as required by the Bid documents and Specifications for the **City of Deltona, Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd.**

All bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place and ready for operation in the manner contemplated by the Bid documents and addendum.

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

<i>Pay Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
101-1	Mobilization	LS	1	\$168,260.00	\$ 168,260.00
102-1	Maintenance of Traffic	LS	1	\$145,141.00	\$ 145,141.00
102-3	Commercial Material for Driveway Maintenance	CY	500	\$18.00	\$ 9,000.00
104-100	Erosion Control Measures	LS	1	\$13,000.00	\$ 13,000.00
110-1-1	Clearing & Grubbing	AC	9	\$5,200.00	\$ 46,800.00
110-7-1	Mailbox, F&I, Single	EA	23	\$175.00	\$ 4,025.00
120-1	Regular Excavation	CY	16,000	\$5.75	\$ 92,000.00
120-6	Embankment	CY	1,500	\$7.55	\$ 11,325.00
160-4	Stabilization, Type B	SY	17,000	\$4.00	\$ 68,000.00
285-70-9	Optional Base Group 9	SY	12,050	\$15.70	\$ 189,185.00
334-1-12	Type SP Structural Course (Traffic Level B)	TN	1,326	\$75.00	\$ 99,450.00
334-7-30	Friction Course (FC-9.5) (Rubber)	TN	663	\$105.00	\$ 69,615.00
400-1-2	Conc. Class I, Endwalls	CY	9	\$790.00	\$ 7,110.00
400-1-11	Conc. Class I, Retaining Walls	CY	0	\$650.00	\$ -
425-1-311	Inlets(Curb)(Type P-1)(<10')	EA	22	\$4,305.00	\$ 94,710.00
425-1-321	Inlets(Curb)(Type P-2)(<10')	EA	5	\$4,725.00	\$ 23,625.00
425-1-521	Inlets(DT Bot)(Type C)(<10')	EA	1	\$1,785.00	\$ 1,785.00
425-1-551	Inlets(DT Bot)(Type E (Special Design))	EA	2	\$5,145.00	\$ 10,290.00
425-2-41	Manholes (P-7)(<10')	EA	1	\$2,415.00	\$ 2,415.00
430-171-118	Pipe Culv (Opt Matl)(Round)(18"SS)	LF	1,143	\$28.00	\$ 32,004.00
430-171-124	Pipe Culv (Opt Matl)(Round)(24"SS)	LF	1,125	\$36.00	\$ 40,500.00
430-171-130	Pipe Culv (Opt Matl)(Round)(30"SS)	LF	567	\$44.00	\$ 24,948.00
430-171-142	Pipe Culv (Opt Matl)(Elliptical)(42"SS)	LF	77	\$103.00	\$ 7,931.00
430-982-125	Mitered End Section, Optional Round, 18" CD	EA	3	\$1,155.00	\$ 3,465.00
430-982-133	Mitered End Section, Optional Round, 30" CD	EA	1	\$1,680.00	\$ 1,680.00
520-1-10	Curb & Gutter Conc - Type F	LF	5,690	\$10.00	\$ 56,900.00
522-1	Sidewalk Concrete, 4" Thick	SY	2,731	\$23.00	\$ 62,813.00
522-2	Sidewalk Concrete, 6" Thick	SY	1,072	\$28.00	\$ 30,016.00
524-1-29	Concrete Ditch Pavt, Reinforced 4"	SY	127	\$32.00	\$ 4,064.00
530-3-3	Riprap, Rubble and Filter Fabric	TN	20	\$115.00	\$ 2,300.00
570-1-2	Performance Turf Sodding	SY	18,850	\$1.80	\$ 33,930.00
630-1-12	Conduit (F&I)(Underground)	LF	20	\$12.00	\$ 240.00
630-1-14	Conduit (F&I)(Underground-Jacketed)	LF	140	\$16.00	\$ 2,240.00
632-7-1	Cable (Signal)(F&I)	PI	1	\$4,777.00	\$ 4,777.00
634-4-113	Span Wire Assembly (F&I)(Two Wire)(Box)	PI	1	\$3,386.00	\$ 3,386.00
635-1-11	Pull and Junction Boxes (F&I) (Pull Box)	EA	2	\$562.00	\$ 1,124.00
641-2-16	Prestressed Concrete Strain Pole (F&I) (Type P-VI)	EA	2	\$5,008.00	\$ 10,016.00
650-51-313	Traffic Signal (F&I) (3-Section)(1-Way)(Polycarbonate/LED)	AS	8	\$1,770.00	\$ 14,160.00
653-191	Signal Pedestrian (F&I) (LED Countdown)(1- Way)	AS	4	\$720.00	\$ 2,880.00
653-192	Signal Pedestrian (F&I) (LED Countdown)(2- Way)	AS	1	\$1,486.00	\$ 1,486.00
659-101	Signal Head Auxillaries (F&I)(Backplates 3 Section)	EA	5	\$158.00	\$ 790.00
659-106	Signal Head Auxillaries (F&I)(Tunnel Visor)	EA	20	\$7.00	\$ 140.00
660-1-103	Loop Detector, Inductive (F&I)(Type 3, 1CH, SS, S)	EA	4	\$250.00	\$ 1,000.00
660-1-104	Loop Detector, Inductive (F&I)(Type 4, 1CH, SS, S)	EA	1	\$250.00	\$ 250.00
660-2-106	Loop Assembly (F&I)(Type F)	AS	5	\$726.00	\$ 3,630.00
665-13	Detector, Pedestrian (F&I)(Detector w/ Sign)	EA	4	\$163.00	\$ 652.00
670-5-410	Traffic Control Assembly (Modify)(NEMA)	AS	1	\$443.00	\$ 443.00
690-10	Traffic Signal Head Assembly, Remove	EA	8	\$27.00	\$ 216.00
690-20	Pedestrian Signal Assembly, Remove	EA	4	\$55.00	\$ 220.00
690-34-1	Complete Pole removal (Deep) Direct Burial)	EA	2	\$2,415.00	\$ 4,830.00
690-80	Span Wire Assembly (Remove)	EA	1	\$331.00	\$ 331.00
690-90	Remove Cabling and Conduit	PI	1	\$331.00	\$ 331.00
690-100	Signal Equipment, Miscellaneous, Remove	PI	1	\$315.00	\$ 315.00
699-1-1	Internally Illuminated Sign (F&I)(Street Name)	EA	4	\$3,848.00	\$ 15,392.00
700-20-11	Sign, Single Post (< 12 SF)	AS	8	\$262.00	\$ 2,096.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

<i>Pay Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
700-20-40	Sign, Existing (Relocate) (Single Post)	AS	3	\$105.00	\$ 315.00
700-20-60	Sign, Existing (Remove) (Single Post)	AS	10	\$53.00	\$ 530.00
700-46-21	Sign, Existing (Relocate) (Single Post)	AS	14	\$105.00	\$ 1,470.00
700-48-48	Sign Panel (Relocate)(15 or less SF)	EA	6	\$53.00	\$ 318.00
706-3	Retro-Reflective Pavement Marker	EA	291	\$3.00	\$ 873.00
711-11-111	Thermoplastic, Standard, White, Solid, 6"	NM	1	\$3,829.00	\$ 4,361.23
711-11-123	Thermoplastic, Standard, White, Solid, 12"	LF	463	\$3.00	\$ 1,389.00
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	532	\$4.00	\$ 2,128.00
711-11-151	Thermoplastic, Standard, DOT Guide, 6"	LF	530	\$1.00	\$ 530.00
711-11-160	Thermoplastic, Standard, White, Message	EA	15	\$105.00	\$ 1,575.00
711-11-170	Thermoplastic, Standard, White, Arrow	EA	43	\$36.00	\$ 1,548.00
711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	NM	1	\$3,825.00	\$ 4,551.75
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	105	\$2.20	\$ 231.00
711-11-231	Thermoplastic, Standard, Yellow, Skip, 6"	GM	0.77	\$970.00	\$ 746.90
711-11-251	Thermoplastic, Standard, Yellow, DOT/Guide, 6"	LF	985	\$0.72	\$ 709.20
ROADWAY BASE BID SUBTOTAL				\$	1,448,508.08

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

<i>Item No.</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
1	Mobilization/Demobilization	LS	1	\$10,500.00	\$ 10,500.00
2	General Requirements, Bonds and Insurance	LS	1	\$2,625.00	\$ 2,625.00
3	Locate Utilities in Advance of Construction	LS	1	\$5,250.00	\$ 5,250.00
4	Survey Layout and As-Builts	LS	1	\$7,350.00	\$ 7,350.00
5	Furnish and install 4-inch DIP water main (restrained joint)	LF	80	\$32.00	\$ 2,560.00
6	Furnish and install 6-inch PVC water main (restrained joint)	LF	710	\$15.00	\$ 10,650.00
7	Furnish and install 6-inch PVC water main (push)	LF	115	\$14.00	\$ 1,610.00
8	Furnish and install 6-inch DIP water main (restrained joint)	LF	200	\$29.00	\$ 5,800.00
9	Furnish and install 8-inch PVC water main (restrained joint)	LF	30	\$21.00	\$ 630.00
10	Furnish and install 8-inch PVC water main (push)	LF	0	\$20.00	\$ -
11	Furnish and install 12-inch DIP water main (restrained joint)	LF	120	\$51.00	\$ 6,120.00
12	Furnish and install 16-inch PVC water main (restrained joint)	LF	2340	\$51.00	\$ 119,340.00
13	Furnish and install 16-inch PVC water main (push)	LF	1030	\$38.00	\$ 39,140.00
14	Furnish and install 16-inch DIP water main (restrained joint)	LF	185	\$79.00	\$ 14,615.00
15	Abandon and grout fill existing water main	LF	4920	\$2.00	\$ 9,840.00
16	Removal and disposal existing water main	LF	2100	\$5.00	\$ 10,500.00
17	4-inch 45 Degree Bend	EA	4	\$158.00	\$ 632.00
18	6-inch 45 Degree Bend	EA	16	\$238.00	\$ 3,808.00
19	6-inch 22.5 Degree Bend	EA	2	\$236.00	\$ 472.00
20	6-inch 11.25 Degree Bend	EA	3	\$236.00	\$ 708.00
21	8-inch 45 Degree Bend	EA	2	\$315.00	\$ 630.00
22	12-inch 45 Degree Bend	EA	4	\$577.00	\$ 2,308.00
23	16-inch 11.25 Degree Bend	EA	7	\$1,155.00	\$ 8,085.00
24	16-inch 22.5 Degree Bend	EA	1	\$1,155.00	\$ 1,155.00
25	16-inch 45 Degree Bend	EA	34	\$1,155.00	\$ 39,270.00
26	6-inch Tee	EA	1	\$367.00	\$ 367.00
27	16 x 4-inch Tee	EA	1	\$1,732.00	\$ 1,732.00
28	16 x 6-inch Tee	EA	4	\$1,575.00	\$ 6,300.00
29	16 x 8-inch Tee	EA	1	\$1,732.00	\$ 1,732.00
30	16 x 12-inch Cross	EA	1	\$2,310.00	\$ 2,310.00
31	6 x 4-inch Reducer	EA	2	\$262.00	\$ 524.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
32	16 x 12-inch Reducer	EA	1	\$971.00	\$ 971.00
33	4-inch Gate Valve	EA	1	\$840.00	\$ 840.00
34	6-inch Gate Valve	EA	5	\$1,050.00	\$ 5,250.00
35	8-inch Gate Valve	EA	1	\$1,680.00	\$ 1,680.00
36	12-inch Gate Valve	EA	3	\$2,887.00	\$ 8,661.00
37	16-inch Gate Valve	EA	4	\$6,825.00	\$ 27,300.00
38	Air Release Valve	EA	6	\$4,725.00	\$ 28,350.00
39	Fire Hydrant	EA	11	\$4,410.00	\$ 48,510.00
40	1-inch Single Service - Short	EA	13	\$367.00	\$ 4,771.00
41	1-inch Single Service - Long	EA	5	\$525.00	\$ 2,625.00
42	1-inch Double Service - Short	EA	5	\$420.00	\$ 2,100.00
43	1-inch Double Service - Long	EA	14	\$577.00	\$ 8,078.00
44	4-inch Direct Connect & Fitting Assembly – Potable	EA	4	\$840.00	\$ 3,360.00
45	6-inch Direct Connect & Fitting Assembly – Potable	EA	2	\$1,260.00	\$ 2,520.00
46	8-inch Direct Connect & Fitting Assembly – Potable	EA	1	\$1,496.00	\$ 1,496.00
47	12-inch Direct Connect & Fitting Assembly – Potable	EA	3	\$1,732.00	\$ 5,196.00
48	Testing and Laboratory Services (Allowance)	LS	1	\$5,000.00	\$ 5,000.00
SUBTOTAL UTILITY BASE BID				\$	473,271.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

SUBTOTAL ROADWAY BASE BID:

One million four hundred forty eight thousand
five hundred eight dollars and eight cents
(IN WORDS) \$ 1,448,508.08
(IN FIGURES)

SUBTOTAL UTILITY BASE BID:

Four hundred seventy three thousand two
hundred seventy one dollars and zero cents
(IN WORDS) \$ 473,271.00
(IN FIGURES)

TOTAL ROADWAY & UTILITY BASE BID:

One million nine hundred twenty one thousand
seven hundred seventy nine / dollars
and eight cents (IN WORDS) \$ 1,921,779.08
(IN FIGURES)

1. The following documents are attached to and made a condition of this Bid:

1. Bid Response Forms (Bidding Documents, entire Section 00300). ✓
2. Bidders Contact and Information Form (Section 00301). ✓
3. References (Section 00301-A). ✓
4. Questionnaire Form (Section 00301-B). ✓
5. Sub-Contractors and Affiliates Form (Section 00301-C). ✓
6. Bid Bond or security (surety bond or cashier's check). (Section 00410). ✓
7. Power of Attorney (for surety bond only). ✓
8. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420). ✓
9. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Section 00470) ✓
10. Non-collusion Affidavit (Section 00480). ✓
11. Trench Safety Affidavit (Section 00490). ✓

END OF SECTION

NAME OF BIDDER: PTS Paving, Inc

If Bidder is: (ALL SIGNATORIES MUST HAVE THEIR NAME PRINTED OR TYPED BELOW THEIR SIGNATURE)

SOLE PROPRIETORSHIP

(Individual's Signature) (SEAL)

(Individual's Name) (SEAL)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

A PARTNERSHIP

(Partnership Name) (SEAL)

(General Partner's Signature)

(General Partner's Name)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

NAME OF BIDDER: P+S Paving, Inc

A CORPORATION

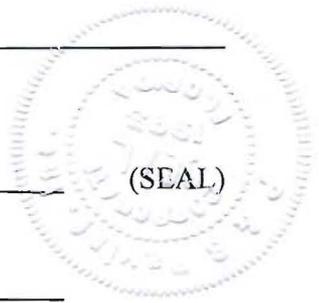
P+S Paving, Inc
(Corporation Name)

Florida
(State of Incorporation)

BY Todd Phillips
(Name of Person Authorized to Sign)

Vice President
(Title)

[Signature]
(Authorized Signature)



(CORPORATE SEAL)

ATTEST [Signature]
(Secretary)

Doing Business as: P+S Paving Inc

Business Address: 3701 Olson Dr
Daytona Beach, FL 32124

Telephone No.: 366-258-7911

Corporation President Tim Phillips

Florida License No.: CGC056994

NAME OF BIDDER: P+S Paving, Inc

A JOINT VENTURE

By _____ (Name) (SEAL)

By _____ (Address)

By _____ (Name) (SEAL)

By _____ (Address)

Doing Business as: _____

Business Address: _____

Telephone No.: _____

Florida License No.: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above).

- 8. List the following in connection with the Surety which is providing the Bid Bond. Surety's Name: Surety's Address:

Surety's Name: Western Surety Company

Surety's Address: _____

Sioux Falls
South Dakota

Name and address of Surety's resident agent for service of process in Florida:

Caton Hasey 3731 S Nova Rd
Port Orange, FL

NAME OF BIDDER: P+S Paving Inc

SCHEDULE OF BASE BID MANUFACTURERS/SUPPLIERS

The Contract Documents are based upon the equipment or products available from the manufacturers/suppliers denoted as "A", "B", etc. However, the Bidder must indicate in his Bid which Base Bid manufacturer/supplier he intends to use for each item of equipment listed by circling one (1) of the listed manufacturers/suppliers. Should the Bidder fail to circle a named supplier, he hereby agrees to provide the item listed as "A". After receipt of bids, the Bidder may not substitute for any manufacturer or supplier circled. Listed manufacturers/suppliers identified as deductive alternates will be considered as a deductive alternate as presented in the Deductive Alternate Section of the Bid Form.

If the Bidder desires to propose one (1) or more substitution or "or equal" manufacturers/suppliers, he may write in the name of such substitution or "or equal" in the spaces provided on the pages following the lists, but he must, nevertheless, also circle one of the listed manufacturers/suppliers. All substitutions or "or equal" items must be identified at the time of Bid (see paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions). Substitutions or "or equal" items will **not** be considered when determining the Apparent Lowest Bidder. Substitutions or "or equal" items will **not** be evaluated or considered until after the "Effective Date" of the Agreement. The Bidder shall base his Bid on providing one of the listed manufacturers/suppliers and shall assume for bidding purposes that all substitutions or "or equal" items will not be accepted.

If the proposed substitution or "or equal" manufacturer/supplier is determined "not equivalent" by the Engineer, the Bidder must use the circled manufacturer/supplier. If the Bidder fails to indicate which listed manufacturer/supplier he intends to use or if a substitution or an "or equal" is rejected, he must use the manufacturer/supplier listed as "A". Also, if the Bidder circles more than one listed manufacturer/supplier, he must use the first manufacturer/supplier circled (unless a substitution or "or equal" is approved).

Each proposed substitution or "or equal" will be evaluated in accordance with Paragraph 6.7 of the General Conditions as amended by the Supplementary Conditions following the Effective Date of the Agreement.

In addition to the reimbursement required under Paragraph 6.7 of the General Conditions, the Contractor shall also reimburse the Owner for any engineering costs directly attributable to the change in manufacturers/suppliers, caused by the acceptance of proposed substitution or "or equal" items, such as; additional field trips for the Engineer, additional redesign costs, and additional review costs, etc. Other costs directly attributable to the change in manufacturers/suppliers caused by the acceptance of proposed substitution or "or equal" items such as increased electrical requirements, larger building, modifications to structures, additional pumps, piping or tankage, etc., shall be borne by others and not by the Owner. Bidder further agree that the use of substitute equipment offered will not affect the completion date.

The Owner may request, and the Bidder shall supply, complete information on proposed substitution or "or equal" items prior to the Notice of Award.

NAME OF BIDDER: P+S Paving, Inc

Category I - SCHEDULE OF BASE BID MANUFACTURERS / SUPPLIERS

Item No.	Equipment Item or Material	Specification Section No.	Manufacturer/Supplier
1.	(Pressure Piping)		A. North American B. Diamond C. Freedom D. J-M Manufacturing E. Certainteed <input checked="" type="radio"/> F. National Pipe G. Ipex
	(Gate Valves)		<input checked="" type="radio"/> A. American Flow Control B. Mueller C. Clow D. US Pipe E. Waterous F. M&H G. Kennedy
	(Air Release Valves)		<input checked="" type="radio"/> A. A.R.I. Flow Control Accessories
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____

SUBSTITUTIONS AND "OR EQUAL"

The undersigned as Bidder agrees that substitutions or "or equal" items will not be considered until after the "Effective Date of the Agreement" and will be evaluated in accordance with Paragraphs 6.7, 6.7.1 and 6.7.2, of the General Conditions as amended by the Supplementary Conditions. If Bidder intends to propose substitutions or "or equal" items after the "Effective Date of the Agreement", it is agreed that these items will be listed on the Substitution List included with the Bid (form provided herein). Only the proposed substitutions or "or equal" items listed on the Substitution List will be evaluated by the Engineer in accordance with the General Conditions.

NAME OF BIDDER: P+S Paving, Inc

SUBSTITUTION LIST OF
MANUFACTURERS / SUPPLIERS

Bidder proposes the following substitutions and "or equal" items of alternate manufacturers/suppliers for the equipment of material categories so identified:

	<u>Equipment</u> <u>Item</u> <u>Material</u>	<u>Drawing</u> <u>No.</u>	<u>Spec.</u> <u>Section</u>	<u>Substitute/"or equal"</u> <u>Manufacturer/Supplier</u> <u>(List One Only)</u>	<u>Proposed</u> <u>Price Deduct</u>
1.	<u>None</u>	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____

END OF SECTION

SECTION 00301-A

References

*References who are located in foreign countries are not acceptable.
The Reference Form Must Be Completed and Returned with your Submittal.*

1. Project Name: Please see attached Project Completion 5 Years
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

2. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

3. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

4. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

5. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

6. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

7. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

8. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

P & S Paving, Inc.
Project Completion
5 Years

PROJECT NAME / LOCATION	VALUE	START DATE/ COMPLETION DATE	GENERAL CONTRACTOR	OWNER	CONTACT NAME	CONTACT PHONE
SR-100 BUNNELL PH-II Flagler County, FL <i>Road Construction</i>	\$ 11,732,070	6/6/2005 5/24/2007	P & S Paving	FDOT-T5087 719 South Woodland Blvd (MS 3-506) Deland, FL 32720	Tom Morgan	386.671.0228
SR15 CRESCENT CITY Putnam County, FL <i>Road Construction</i>	\$ 4,026,813	1/14/2007 10/8/2007	P & S Paving	FDOT E-2J63 105 Yelvington Rd. Palatka, FL	Bill Craig	386.312.4820
Villaggio Volusia Co., FL <i>Road Construction</i>	\$ 6,644,469	2/18/2006 5/2/2007	P & S Paving, Inc.	K. B. HOMES, LLC 9102 Southpark Loop Center Orlando, FL 32819	Dan Oseah	407.587.3400
SR 11 MILL & BRIDGE RPLCMNT Volusia County, FL <i>Road Construction</i>	\$ 7,778,132	10/5/2007 7/2/2008	P & S Paving	FDOT T5207 719 South Woodland Blvd (MS 3-506) Deland, FL 32720	Jennifer Taylor	386.943.5367
US17/92 SIX LANE Volusia Co, FL <i>Road Construction</i>	\$ 14,594,168	8/6/2007 1/7/2009	P & S Paving, Inc.	FDOT T5183 915 S. Clyde Morris Boulevard Daytona Beach, FL	Terry Simpson (C	386.258.4464
I4-PAVING Volusia Co., FL <i>Road Construction</i>	\$ 13,530,505	4/14/2007 9/11/2008	SEMA Construction 7353 S. Eagle Street Centennial, CO 80112	FDOT		386.774.7362
Florida Memorial Hospital Volusia Co., FL <i>Parking Lot Construction</i>	\$ 12,025,153	6/5/2006 7/22/2009	The Robins & Morton Grou 1900 Summitt Tower Blvd Suite 150 Orlando, FL 32810	Florida Hospital	Ron Bowes	407.916.7235

City of Ormond Beach Resurfacing Ormond Beach, FL <i>Milling & Resurfacing</i>	\$ 675,762	7/1/2009 11/6/2009	P & S Paving, Inc.	City of Ormond Beach 22 South Beach Street Ormond Beach, FL 32174	April Marti	386-676-3306
SR 15 (US 17/92) Volusia County, FL <i>Road Construction</i>	\$ 4,925,218	2/11/2009 10/20/2009	P & S Paving, Inc.	FDOT - T5284 719 S. Woodland Blvd DeLand, FL	Mike Ruland, PE Michael.Ruland@dot.state.fl.us	386-943-5761
Palm Coast Resurfacing 08-09 Palm Coast, FL <i>Milling & Resurfacing</i>	\$ 4,179,147	2/16/2009 10/3/2009	P & S Paving, Inc.	City of Palm Coast 2 Commerce Blvd. Palm Coast, FL	Judy McCullar	386-986-2360
South Lot 10 ADA Parking DIS - Daytona Beach, FL <i>Parking Lot Construction</i>	\$ 984,342	7/24/2009 1/21/2010	P & S Paving, Inc.	Daytona International Speedway Corporation 1801 In'tl Speedway Blvd. Daytona Beach, FL 32114	Martin Flugger	386-681-4320
Howland Blvd. City of Deltona, etc. <i>Road Construction</i>	\$ 13,766,073	3/29/2007 1/28/2010	P & S Paving, Inc.	County of Volusia 123 W. Indiana Avenue DeLand, FL 32720	Todd Buckles	386-736-5967
Publix - Ormond By The Sea Ormond by the Sea, FL <i>Parking Lot Construction</i>	\$ 331,796	5/20/2009 3/10/2010	HGR Construction 1801 Lee Road Winter Park, FL 32789	Century Companies 500 S. Florida Avenue Lakeland, FL 33801	Louie Akel	407-645-4447
US 192 & John Rodes Blvd. Melbourne, FL <i>Road Construction</i>	\$ 971,884	9/8/2009 3/12/2010	P & S Paving, Inc.	Melbourne 95 New Haven LLC 1111 Metropolitan Avenu Charlotte, NC 28204	Scott Glaubit BSE Consultants	321-725-3674
SR 44 New Smyrna Beach New Smyrna Beach, FL <i>Road Construction</i>	\$ 3,021,968	8/24/2009 3/25/2010	P & S Paving, Inc.	FDOT - T5303 719 South Woodland Blvd. DeLand, FL 32720	Mike Wilson	386-736-2642
Daytona Transportation Facility Daytona Beach, FL <i>Parking Lot Construction</i>	\$ 2,887,410	10/10/2008 3/26/2010	Wharton-Smith, Inc. 750 Monroe Road Sanford, FL	County of Volusia School Board P.O. Box 2118 DeLand, FL 32720	Paul Radenhouse Robin Georgens	386-760-1684 407-321-8410

SR 11 - Carter Rd. to Flagler Co. Volusia County, FL <i>Road Construction</i>	\$ 3,525,798	2/1/3810 5/27/2010	P & S Paving, Inc.	FDOT - T5320 719 South Woodland Blvd. DeLand, FL 32720	Terry Phillips	
Old Moultrie Road from Tree Blvd. to north of Arapaho Ave. St. Johns County <i>Design Build Mill & Resurface</i>	\$ 289,980	10/8/2010 11/19/2010	GAI Consultants 2008 Riverside Avenue Suite 200 Jacksonville, FL 32204	FDOT - E2054 1109 South Marion Avenue Lake City, FL 32025	Clifton Hill	904-363-1110
Fort Smith Boulevard Ph. 3 Deltona, FL <i>Road Construction</i>	\$ 9,442,246	12/10/2008 2/3/2011	P & S Paving, Inc.	City of Deltona 2345 Providence Blvd. Deltona, FL 32725	Bowyer-Singleton & Associates Barron Roy	386-738-3028
I-95 & CR 210 St. Johns County <i>Road Construction</i>	\$ 6,193,314	11/5/2008 6/21/2010	P & S Paving, Inc.	St. Johns County Board of Commissioners 2446 Dobbs Road Saint Augustine, FL 32086	Sharon Haluska Eisman-Russo Elli Assi	904-209-0156 904-733-1478
SR 5 (US 1) St. Johns County <i>Milling & Resurfacing</i>	\$ 4,601,109	3/25/2009 5/5/2010	P & S Paving, Inc.	FDOT - T2276 1109 South Marion Avenue Lake City, FL 32025	Karen LaBarbera	
US 92 (SR 600) Daytona Beach, FL <i>Milling & Resurfacing</i>	\$ 4,757,074	7/22/2009 5/24/2010	P & S Paving, Inc.	FDOT - T5279 719 South Woodland Blvd. DeLand, FL 32720	Alan Fisher	
Int'l Speedway Blvd. Streetscape Daytona Beach, FL <i>Streetscape Project</i>	\$ 1,119,828	9/24/2009 7/1/2010	P & S Paving, Inc.	City of Daytona Beach 950 Bellevue Avenue Daytona Beach, FL	Robert DeWitt	386-671-8300
DIS Redevelopment DIS - Daytona Beach, FL <i>Parking Lot Construction</i>	\$ 1,654,554	9/14/2009 8/5/2010	P & S Paving, Inc.	Daytona International Speedway Corporation 1801 In'tl Speedway Blvd. Daytona Beach, FL 32114	Martin Flugger	386-681-4320

SR 15 (US 17) Volusia County <i>Milling & Resurfacing</i>	\$	2,356,564	6/30/2010 P & S Paving, Inc. 11/3/2010	FDOT - T5336 719 South Woodland Blvd. DeLand, FL 32720	Terry Phillips	
SR A1A Port Orange Volusia County <i>Milling & Resurfacing</i>	\$	2,106,037	4/26/2010 P & S Paving, Inc. 1/8/2011	FDOT - T5325 719 South Woodland Blvd. DeLand, FL 32720	Alan Fisher	
Atlantic Avenue & Silver Beach Daytona Beach <i>Streetscape Project</i>	\$	656,500	7/7/2010 P & S Paving, Inc. 1/4/2011	City of Daytona Beach 950 Bellevue Avenue Daytona Beach, FL	Robert DeWitt	386-671-8300
Runway 13-31 Pavement Rehabilitation St. Johns County <i>Milling & Resurfacing</i>	\$	5,652,153	7/19/2010 P & S Paving, Inc. 2/23/2011	St. Augustine-St.Johns County Airport Authority 4796 U.S. 1 North St. Augustine, FL 32095	Mike Cornell Passero Associates	904-209-0870
Houligans Port Orange Volusia County <i>Parking Lot Construction</i>	\$	526,863	6/25/2010 P & S Paving, Inc. 3/21/2011	Houligans Port Orange, llc 810 Fentress Court, Suite 130 Daytona Beach, FL 32117	Steve Curtis Charles Wayne Construction Services	386-238-3600
D-5 Mill & Resurface Orange & Seminole Counties <i>Milling & Resurfacing</i>	\$	519,237	9/1/2010 P & S Paving, Inc. 3/9/2011	FDOT - E5P01 133 South Semoran Blvd. Orlando, FL 32807	Daniel Eisman	
City of DeBary Street Resurfacing DeBary <i>Milling & Resurfacing</i>	\$	434,512	12/13/2010 P & S Paving, Inc. 3/16/2011	City of DeBary 16 Colomba Road DeBary, FL 32713	Jeremiah Owens CPH Engineers	407-322-6841
SR 417 - Lake Jesup ORT Plaza Seminole County <i>Milling & Resurfacing</i>	\$	6,126,742	6/10/2009 Southland Construction 5/8/2011 172 West Fourth Street Apopka, FL 32701	Florida Turnpike Enterprise P.O. Box 613069 Ocoee, FL 34761	Tyler Carr	

I-95 Resurfacing & Guardrail Brevard & Volusia Counties <i>Design Build & Resurfacing</i>	\$	10,955,469	10/13/2010 P & S Paving, Inc. 5/27/2011	FDOT - E5N56 719 South Woodland Blvd. DeLand, FL 32720	Tim Grimm	
SR 5 (US 1) & SR 40 (Granada) Volusia County <i>Turn Lane and Sidewalk</i>	\$	2,449,861	1/11/2011 P & S Paving, Inc. 10/21/2011	FDOT - T5362 915 South Clyde Morris Blvd. Daytona Beach, FL 32114	Christopher Nolen	
Volusia Mall Overlay Daytona Beach <i>Resurfacing</i>	\$	646,720	2/28/2011 P & S Paving, Inc. 3/28/2011	CBL & Associates Properties 2030 Hamilton Place Blvd., Ste 500 Chattanooga, TN 37421-6000	Jamey Flegal	423-553-8792
SR 5A (Nova) Herbert to SR 400 Volusia County <i>Milling & Resurfacing</i>	\$	2,653,350	3/4/2011 P & S Paving, Inc. 9/19/2011	FDOT - T 5382 915 South Clyde Morris Blvd. Daytona Beach, FL 32114	Dwight Grube	
CR 419 Resurfacing Seminole County <i>Milling & Resurfacing</i>	\$	816,022	6/9/2011 P & S Paving, Inc. 7/12/2011	Seminole County 1101 East First Street Sanford, FL 32771	Jacqui Perry	407-665-7114
Red Bug Lake Road Seminole County <i>Milling & Resurfacing</i>	\$	1,100,401	9/12/2011 P & S Paving, Inc. 11/5/2011	Seminole County 1101 East First Street Sanford, FL 32771	Jacqui Perry	407-665-7114
DIS West Lot Daytona Beach <i>Sitework & Parking Lot</i>	\$	2,008,687	10/17/2011 P & S Paving, Inc. 1/13/2012	Daytona International Speedway, LLC One Daytona Blvd. Daytona Beach, FL 32114	Martin Flugger	386-681-4320
Putnam & St. Johns Counties Putnam & St. Johns Counties <i>Milling & Resurfacing</i>	\$	1,312,161	2/4/2009 P & S Paving, Inc. 1/12/2012	FDOT - E2L92 3600 DOT Road, MS-2701 St. Augustine, FL 32095	Mike Hall	904-825-5036

City of Port Orange Resurfacing Port Orange <i>Milling & Resurfacing</i>	\$	469,159	2/1/2012 P & S Paving, Inc. 3/8/2012	City of Port Orange 1000 City Center Circle Port Orange, FL 32129-4144	Lynette Luff	386-506-5600
Runway 7L-25R Daytona Beach International Airport Daytona Beach <i>Runway Milling & Resurfacing</i>	\$	15,144,760	11/8/2010 P & S Paving, Inc. 5/11/2012	County of Volusia 123 West Indiana Avenue, Rm 304 Deland, FL 32720-4608	John DelGuidice RS&H Jacksonville, FL	904-256-2304
City of Daytona Resurfacing Daytona Beach <i>Milling & Resurfacing</i>	\$	4,790,937	9/2/2010 P & S Paving, Inc. 3/27/2012	City of Daytona Beach 950 Bellevue Avenue Daytona Beach, FL	Robert DeWitt	386-671-8300
Cobblestone Village Palm Coast <i>Sitework and Parking Lot</i>	\$	1,516,617	7/21/2011 P & S Paving, Inc. 7/11/2012	CVPC - Outparcels, LLC CBL & Associates Properties 2030 Hamilton Place Blvd. Chattanooga, TN 37421-6000	Jamey Flegal	423-553-8792
SR 19 Lake County Lake County <i>Milling & Resurfacing</i>	\$	1,876,585	2/12/2012 P & S Paving, Inc. 5/14/2012	FDOT - Leesburg Operations 1405 Thomas Avenue Leesburg, FL 32748	Karen Madrid	352-326-7736
City of Port Orange Port Orange <i>Milling & Resurfacing</i>	\$	373,998	2/1/2012 P & S Paving, Inc. 3/8/2012	City of Port Orange 1000 City Center Circle Port Orange, FL 32129	Tom Cinefro	386-506-5704
Mulch Area & Road Improvements Seminole County <i>Milling & Resurfacing</i>	\$	647,568	3/26/2012 P & S Paving, Inc. 4/16/2012	Seminole County 1101 East First Street Sanford, FL 32771	Jacqui Perry	407-665-7114
Upsala Road Seminole County <i>Milling & Resurfacing</i>	\$	491,592	3/16/2012 P & S Paving, Inc. 4/25/2012	Seminole County 1101 East First Street Sanford, FL 32771	Jacqui Perry	407-665-7114

SECTION 00301-B
QUESTIONNAIRE FORM

DATE: 2-26-13

PROJECT IDENTIFICATION **CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION “B”**

NAME OF BIDDER: P+S Paving, Inc.

BUSINESS ADDRESS: 3701 Olson Dr. Daytona Beach, FL 32124

TELEPHONE NO.: 386-258-7911

CONTRACTOR'S FLORIDA LICENSE NO.: CGC 056994

The undersigned warrants the truth and accuracy of all statements and answers herein contained. Include additional sheets if necessary.

1. How many years has your organization been in business as a General Contractor?

19 years

2. List similar roadway projects that you have undertaken in the most recent three year period. Identify the Owner and a Contact Person:

Project	Municipality / Owner	Contact Name/Number
<u>Please see attached Project Completion 5 Years</u>		

3. Have you ever failed to complete work awarded to you? If so, where and why?

No

4. Name three (3) municipalities for which you have performed similar roadway projects and to which you refer:

City of Daytona Beach
City of Ormond Beach
Volusia County

5. Have you personally inspected the site of the proposed Work? Describe any anticipated problems with the site and your proposed solutions.

Yes, No anticipated problems.

6. Will you Subcontract any part of this Work? If so, describe which portion(s).

Yes, Underground pipe, signalization, striping and testing.

7. What equipment do you own that is available for the Work?

Please see attached equipment list.

8. What equipment will you purchase for the Work?

None

9. What equipment will you rent for the Work?

None

10. The following is given as a summary of the Financial Statement of the undersigned: (List Assets and Liabilities and use insert sheet if necessary.)

Please see attached Financial Statement

11. State the true and exact, correct, and complete name under which you do business.

Bidder is: P+S Paving, Inc.

END OF SECTION

Equipment Condensed List

Equipment No	Description	Category
95	STERLING TACK TRUCK 6857	500
101	JD 444E 2 CY	100
102	JD 544H 2.5 CY	100
103	JOHN DEERE 624 J WHEEL LOADER	100
104	KOM 420 13.5 CY	100
105	CAT 938G 15CY	100
106	LULL	100
107	VOLVO 120D 5 CY	100
108	CAT 928 2.5 CY	100
109	CAT SKID STEER	100
110	CAT 928G	100
111	VOLVO 150	100
112	CAT 938G	100
118	VOLVO 180 LOADER	100
119	JD 544H	100
120	TRACK LOADER	100
121	CAT 938G SERIES II	100
122	RC100 SKID STEER	100
123	KS 602 WHEEL LOADER	100
124	VOLVO 180 E	100
125	CAT 928GZ LOADER	100
126	CAT 928 GZ DJD02763	100
127	CAT 928GZ LOADER	100
128	CAT TELEHANDLER	100
129	CAT 287C LOADER	100
130	CAT 938G II LOADER	100
131	CAT 972H LOADER	100
132	CAT 236B2 SKIDSTEER	100
133	CAT 289C	100
134	CAT 272C CHS4	100
135	T200 BOBCAT	100
136	CAT 289C CH2	100
137	JD 5310 TRACTOR	100
138	CAT 938H	100
139	CAT 938H	100
140	CAT 972H LOADER	100
141	CAT 950G LOADER	100
142	CAT 289C LOADER	100
201	CAT D3G XL	200
202	JD 550 GLT	200
203	KOM D58	200
204	CAT D58	200
205	CAT D5M	200
206	CAT D3C	200
207	KOM D41P	200
208	CAT D5MXL	200
209	CAT D5	200
210	JD 450J LPG DOZER	200
211	CAT D6R DOZER	200
212	JD450 LGP DOZER	200
213	CAT D4K LGP TRACTOR	200
301	JD 670A	300
302	HUBER M850A	300
303	CAT 12H	300
304	VOLVO G60	300
305	CAT 12H	300
306	CAT 12H GRADER	300

Equipment Condensed List

Equipment No	Description	Category
307	CAT MOTOR GRADER	300
308	CAT 12H MOTOR GRADER	300
309	CAT 12 MOTOR GRADER	300
401	KOM PC300	400
402	LINKBELT	400
403	AMER 7220 DRAGLINE	400
404	CAT 613 PAN	400
405	KOBELCO	400
406	CAT 613 PAN	400
407	HYD. EXCAVATOR	400
408	TELESCOPIC EXCAVATOR	400
409	CAT EXCAVATOR	400
410	EXCAVATOR	400
411	CAT HYD MINI EXCAVATOR	400
412	CAT 330 DL EXCAVATOR	400
413	CAT MINI EXCAVATOR	400
414	KOLBECO SK350 EXCAVATOR	400
415	CAT 330CL	400
416	CAT 336DL	400
417	JOHN DEERE 160 TRACK HOE	400
501	BLAW-KNOX 10' PAVER 1996	500
502	ROADTEC 10' PAVER 2000	500
503	NEW HOLLAND BROOM	500
504	FORD 3910 BROOM	500
505	MILL RX50B	500
506	NEW HOLLAND BROOM	500
507	NEW HOLLAND BOX BLADE	500
508	BLAW KNOX ROAD WIDENER	500
509	ROADTEC PAVER 2002	500
510	BROOM TN55	500
511	ROADTEC PAVER 2003	500
512	Roadtec Milling Machine	500
513	NEW HOLLAND BOX BLADE	500
514	NEW HOLLAND SWEEPER	500
515	SHUTTLE BUGGY	500
516	ROADTEC PAVER 8' 2004	500
517	ELGIN EAGLE SWEEPER TRUCK	500
518	CAT COLD PLANER	500
519	NEW HOLLAND SWEEPER	500
520	NEW HOLLAND BOX BLADE	500
521	ROADTEC PAVER 10' 2005	500
522	LEEBOY PAVER 2006	500
523	ROADTEC MILL RX700 2007	500
524	ROADTEC 10' PAVER 2007	500
525	JOHN DEERE SWEEPER	500
526	ROADTEC RP190 PAVER	500
527	JOHN DEERE 4520 BROOM	500
528	ROADTEC RX700-3 MILL	500
529	CAT COLD PLANER	500
530	ROADTEC PAVER	500
531	1996 FORD 345D TRACTOR	500
532	HOLLAND 4X4 TRACTOR W/SWEEPE	500
533	RX700-3 COLD PLANER	500
534	ROADTEC PAVER RP190	500
601	GAL S330 C3 WHEEL STEEL	600
602	HYSTER 530 A TRAFFIC ROLLER	600
603	HYSTER C340B STATIC 8-10 TON	600

Equipment Condensed List

Equipment No	Description	Category
604	BOMAG 120 D VIBRATORY 3-5 TON	600
605	CASE 602 BD VIBRATORY	600
606	HYPAC C850 B VIBRATORY	600
607	SD100 VIBRATORY ROLLER 3-5 TON	600
608	HYSTER C747A VIBRATORY 3-5 TON	600
609	HYSTER C530 AH TRAFFIC	600
610	HYPAC C530 A STATIC 8-10 TON	600
611	DYNAPAC CS12 3 WHEEL STEEL	600
612	INGRAM 3 WHEEL STEEL	600
613	BOMAG A120 D VIBRATORY 3-5 TON	600
614	BOMAG VIBRATORY TANDEM ROLLER	600
615	HYPAC 778 STEEL WHEEL ROLLER	600
616	HYPAC 530AH TRAFFIC ROLLER	600
617	BOMAG VIBRATORY ROLLER	600
618	HYSTER C530A	600
619	HYSTER C340C ROLLER	600
620	HYSTER 340C ROLLER	600
621	HYSTER ROLLER	600
622	HYPAC ROLLER	600
623	HYPAC C340C	600
624	HAMM VIBRATORY ROLLER	600
625	SAKAI 320 VIBRATORY ROLLER	600
626	SAKAI 320 ROLLER	600
628	SW 320 ROLLER	600
629	LEEBOY 420 ROLLER	600
630	SW850 VIBRATORY ROLLER	600
631	VIBRATORY ROLLER SINGLE DRUM	600
632	CAT CB54 VIBRATORY COMPACTOR	600
701	VOLVO A25C A	700
702	VOLVO A25C 2	700
703	CATERPILLAR 725 OFF ROAD TRUCK	700
704	CATERPILLAR 725 OFF ROAD TRUCK	700



BRENT MILLIKAN & COMPANY, P.A.
Certified Public Accountants

More Than An Accounting Firm!

Auditing Services

Management Consulting

Review/Compilation Services

Computer Consultation

Business Controllership
Assistance

Business Purchase/Sale
Assistance

Business Planning

General Business Consulting

Income Tax Preparation

Income Tax Planning

I.R.S. Representation

Estate and Trust Planning

Financial Planning

P & S PAVING, INC

FINANCIAL STATEMENTS AND INDEPENDENT AUDITORS' REPORT

**FOR THE YEARS ENDED
DECEMBER 31, 2011 AND 2010**

FINANCIAL STATEMENTS

P & S PAVING, INC.

For the Years Ended December 31, 2011 and 2010
With Independent Auditors' Report

TABLE OF CONTENTS
CONSOLIDATED FINANCIAL STATEMENTS AND
INDEPENDENT AUDITORS' REPORT
December 31, 2011 and 2010
P & S PAVING, INC.
Daytona Beach, Florida

	<u>Page</u>
Independent Auditors' Report	1

FINANCIAL STATEMENTS

Consolidated Balance Sheets	2
Statements of Consolidated Income and Comprehensive Income	3
Statements of Consolidated Stockholders' Equity	4
Statements of Consolidated Cash Flows	5
Notes to the Consolidated Financial Statements	6-13

ACCOMPANYING INFORMATION

Schedule of Earnings from Contracts	14
Schedule of Contracts Completed	15-16
Schedule of Contracts in Progress	17-18

BRENT MILLIKAN & COMPANY, P.A.
CERTIFIED PUBLIC ACCOUNTANTS

INDEPENDENT AUDITORS' REPORT

To the Board of Directors
P & S Paving, Inc.
Daytona Beach, Florida

We have audited the accompanying consolidated balance sheets of P&S Paving, Inc. (an S Corporation), and subsidiaries as of December 31, 2011 and 2010, and the related statements of consolidated income and comprehensive income, stockholders' equity, and cash flows for the years then ended. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of P&S Paving, Inc., and subsidiaries as of December 31, 2011 and 2010, and the results of their operations and their cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Our audit was conducted for the purpose of forming an opinion on the consolidated financial statements as a whole. The schedules of earning from contracts, contracts completed, and contracts in progress are presented for purposes of additional analysis and are not a required part of the consolidated financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the consolidated financial statements. The information has been subjected to the auditing procedures applied in the audit of the consolidated financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the consolidated financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the consolidated financial statements as a whole

Brent Millikan & Co., P.A.

April 6, 2012

CONSOLIDATED BALANCE SHEETS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

	2011	2010
Assets:		
Current Assets:		
Cash and cash equivalents.....	\$ 4,067,575	1,337,988
Accounts and contract receivables	3,601,883	3,307,046
Employee advances	450	7,280
Other receivables	12,500	12,500
Raw material inventories	40,000	40,000
Costs and estimated earnings in excess of billings on uncompleted contracts.....	<u>49,459</u>	<u>395,709</u>
Total current assets.....	<u>7,771,867</u>	<u>5,100,523</u>
Property and Equipment, less accumulated depreciation.....	<u>3,318,702</u>	<u>4,130,983</u>
Other assets:		
Deposits	37,485	6,562
Investments in marketable securities.....	1,012,158	-
Other investments.....	<u>254,544</u>	<u>198,665</u>
Total other assets.....	<u>1,304,187</u>	<u>205,227</u>
Total assets.....	<u>\$ 12,394,756</u>	<u>9,436,733</u>
Liabilities and Stockholders' Equity:		
Current Liabilities:		
Accounts and retainage payable - trade.....	\$ 1,740,684	1,816,067
Other accrued liabilities.....	146,438	170,381
Billings in excess of costs and estimated earnings on uncompleted contracts.....	<u>3,694,079</u>	<u>1,402,681</u>
Total current liabilities.....	<u>5,581,201</u>	<u>3,389,129</u>
Stockholders' Equity:		
Common stock - \$1.00 par value, 500 shares authorized, 300 shares issued and 200 shares outstanding.....	300	300
Additional paid-in capital.....	30,790	30,790
Retained earnings.....	6,885,721	6,131,514
Less: treasury stock, 100 shares, at cost.....	(115,000)	(115,000)
Accumulated other comprehensive income:		
Unrealized gains on securities.....	<u>11,744</u>	<u>-</u>
Total stockholders' equity.....	<u>6,813,555</u>	<u>6,047,604</u>
Total liabilities and stockholders' equity.....	<u>\$ 12,394,756</u>	<u>9,436,733</u>

The accompanying notes are an integral part of these consolidated financial statements.

**STATEMENTS OF CONSOLIDATED INCOME AND
COMPREHENSIVE INCOME**

For the Years Ended December 31, 2011 and 2010

P & S PAVING, INC.
Daytona Beach, Florida

	2011	2010
Contract revenues earned.....	\$ 46,443,890	50,986,318
Costs of revenues earned and allocated overhead.....	<u>41,553,232</u>	<u>45,526,465</u>
Gross profit.....	4,890,658	5,459,853
Selling, general, administrative and unallocated overhead expenses.....	<u>3,318,579</u>	<u>3,259,150</u>
Income from operations.....	<u>1,572,079</u>	<u>2,200,703</u>
Other income (expense):		
Gain (loss) on dispositions of equipment.....	10,000	1,473
Other expense.....	(19,708)	(27,433)
Other income.....	448	1,100
Interest and dividend income.....	<u>23,388</u>	<u>23,486</u>
Net income.....	1,586,207	2,199,329
Other comprehensive income:		
Unrealized holding gains on securities arising during the period.....	<u>11,744</u>	<u>-</u>
Comprehensive income.....	<u>\$ 1,597,951</u>	<u>2,199,329</u>

The accompanying notes are an integral part of these consolidated financial statements.

STATEMENTS OF CONSOLIDATED STOCKHOLDERS' EQUITY

For the Years Ended December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

	Common Stock	Additional Paid-in Capital	Retained Earnings	Treasury Stock	Accumulated Other Comprehensive Income	Total Stockholders' Equity
2010						
Balance January 1, 2010.....	\$ 300	30,790	9,246,554	(115,000)	-	9,162,644
Net Income.....	-	-	2,199,329	-	-	2,199,329
Dividends Paid.....	-	-	(5,314,369)	-	-	(5,314,369)
Balance December 31, 2010.....	<u>300</u>	<u>30,790</u>	<u>6,131,514</u>	<u>(115,000)</u>	<u>-</u>	<u>6,047,604</u>
2011						
Balance January 1, 2011.....	300	30,790	6,131,514	(115,000)	-	6,047,604
Net Income	-	-	1,586,207	-	-	1,586,207
Dividends Paid.....	-	-	(832,000)	-	-	(832,000)
Net unrealized gain on marketable securities.....	-	-	-	-	11,744	11,744
Balance December 31, 2011.....	<u>\$ 300</u>	<u>30,790</u>	<u>6,885,721</u>	<u>(115,000)</u>	<u>11,744</u>	<u>6,813,555</u>

The accompanying notes are an integral part of these consolidated financial statements.

STATEMENTS OF CONSOLIDATED CASH FLOWS

For the Years Ended December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

	2011	2010
Cash Flows From Operating Activities:		
Net income.....	\$ 1,597,951	2,199,329
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization.....	1,468,450	1,757,441
(Gain) loss on equity investments.....	18,844	-
Unrealized (Gain) loss on marketable securities.....	(11,744)	-
(Gain) loss on disposition of property and equipment.....	(10,000)	(1,473)
Bad debt write-off.....	5,640	10,886
Decrease (increase) in operating assets:		
Accounts and contract receivables.....	(300,477)	2,873,912
Other receivables.....	-	(12,500)
Costs and estimated earnings in excess of billings.....	346,250	111,144
Employee advances.....	6,830	(5,380)
Increase (decrease) in operating liabilities:		
Accounts payables - trade.....	(75,383)	(1,586,461)
Accrued liabilities.....	(23,943)	(7,424)
Billings in excess of costs and estimated earnings.....	<u>2,291,398</u>	<u>(2,849,105)</u>
Net cash provided by operating activities.....	<u>5,313,816</u>	<u>2,490,369</u>
Cash Flows From Investing Activities:		
Acquisition of property and equipment.....	(696,169)	(873,845)
Proceeds from sale of property and equipment.....	50,000	1,473
Increase in security deposits.....	(30,923)	-
Investment in mortgage note.....	-	(202,500)
Principal payments received on mortgage note.....	8,277	321
Investments in marketable securities.....	(1,000,414)	-
Equity investments and advances.....	<u>(83,000)</u>	<u>26,116</u>
Net cash (used in) investing activities.....	<u>(1,752,229)</u>	<u>(1,048,435)</u>
Cash Flows From Financing Activities:		
Stockholder dividend distributions.....	<u>(832,000)</u>	<u>(5,314,369)</u>
Net cash (used in) financing activities.....	<u>(832,000)</u>	<u>(5,314,369)</u>
Net increase in cash and cash equivalents.....	2,729,587	(3,872,435)
Cash and cash equivalents, beginning of year.....	<u>1,337,988</u>	<u>5,210,423</u>
Cash and cash equivalents, end of year.....	<u>\$ 4,067,575</u>	<u>1,337,988</u>
Supplemental schedule of noncash investing and financing activities:		
Acquisition of property and equipment through exchanges.....	<u>\$ 703,379</u>	<u>359,894</u>

The accompanying notes are an integral part of these consolidated financial statements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The following is a description of the significant accounting policies and practices followed by the Company which conform to accounting principles generally accepted in the United States of America and prevailing practices within the construction industry.

Corporate Organization

P & S Paving, Inc. was incorporated in the State of Florida on January 8, 1993, for the primary purpose of heavy highway construction.

Company Activities and Operating Cycle

The Company's primary activity is asphalt paving construction. Work is performed primarily under fixed-price contracts. These contracts are usually undertaken by the Company in agreements with other contractors, acting as either a sub-contractor or general contractor. The length of the Company's contracts varies, but is typically less than one year. Therefore, assets and liabilities associated with these contracts are classified as current because the contract-related items in the balance sheet have realization and liquidation periods of less than one year.

Consolidation and Basis of Presentation

The consolidated financial statements include accounts and transactions of P & S Paving, Inc. and PS Aviation, LLC. PS Aviation, LLC is a wholly owned limited liability company, used to operate and maintain aircraft equipment used in the operations of P & S Paving, Inc. All significant intercompany accounts, transactions and profits have been eliminated for consolidation.

Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Management uses estimates and assumptions in preparing financial statements in accordance with generally accepted accounting principles. Actual results could vary from the estimates assumed in preparing the financial statements.

Revenue and Cost Recognition

Revenues from fixed-price and modified fixed-price construction contracts are recognized on the percentage-of-completion method, measured on the basis of costs incurred to date to estimated total costs or engineering estimates of job progress for each contract. This method is used because management considers the cost-to-cost method to be the best available measure of progress on these contracts. Revenues from cost-plus contracts are recognized on the basis of costs incurred during the period plus the fee earned by the cost-to-cost method. A contract is considered complete when all costs except insignificant items have been incurred and the installation is operating according to specifications or has been accepted by the customer.

Contract costs include all direct material and labor costs and those indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs, and depreciation costs. Selling, general, and administrative costs are charged to expense as incurred. Provisions for estimated losses on uncompleted contracts are made in the period in which such losses are determined. Changes in job performance, job conditions, and estimated profitability, including those arising from contract penalty provisions, and final

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

contract settlements may result in revisions to costs and income and are recognized in the period in which the revisions are determined. Profit incentives are included in revenues when their realization is reasonably assured. An amount equal to contract costs attributable to claims is included in revenues when realization is probable and the amount can be reliably estimated.

The asset, "costs and estimated earnings in excess of billings on uncompleted contracts" represents revenues recognized in excess of amounts billed. The liability, "billings in excess of costs and estimated earnings on uncompleted contracts," represents billings in excess of revenues recognized.

Cash and Cash Equivalents

Cash and cash equivalents consist of operating checking and money market accounts. For purposes of the statement of cash flows, the Company considers all highly liquid debt instruments purchased with original maturity dates of three months or less to be cash equivalents. Highly liquid debt instruments purchased with original maturity dates of more than three months but less than twelve months are presented as short term investments.

Receivables

Contracts receivable from performing construction on long-term contracts are based on the revised contract prices. Normal contracts receivable are due 30 days after the issuance of the invoice. Contract retentions are due 30 days after completion of the project and acceptance by the owner. Receivables past due for more than 120 days are considered delinquent. All contracts and accounts receivable are stated at net realizable value. When applicable, accounts receivable determined to be worthless (based on individual credit evaluation and specific circumstances of the customer) are written off under the direct write-off method and are charged to bad debt expense in the year determined uncollectible. Accordingly, no reserve for uncollectible accounts was considered necessary. Contract retentions are included in contract receivables.

Inventory

Inventories are stated at the lower of costs (first-in, first-out), or market value. Inventory consists of raw materials used in the manufacture of asphalt.

Investments

The Company classifies its marketable debt securities as "held to maturity" if it has the positive intent and ability to hold the securities to maturity. All other marketable securities are classified as "available for sale." Securities classified as "available for sale" are carried in the financial statements at fair value. Realized gains and losses are included in earnings; unrealized holding gains and losses are reported in other comprehensive income. Securities classified as held to maturity are carried at amortized cost.

Property and Equipment

Property and equipment are recorded at historical costs. Depreciation and amortization are provided using the straight-line method over the estimated useful lives of the assets. The estimated useful service lives of the assets are as follows:

Building and improvements	15-40 years
Furniture and Fixtures	5-10 years
Machinery and equipment.....	5-10 years
Vehicles and light duty trucks.....	5 years

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

Long-lived Assets

The Company's investment in long-lived assets to be held and used, are reviewed for impairment whenever events or changes in circumstances indicate that the related carrying amount may not be recoverable. When required, impairment losses on assets held and used are recognized based on the excess of the asset's carrying amount and fair value of the asset and long-lived assets to be disposed of are reported at the lower of carrying amount or fair value less cost to sell.

Income Taxes

On January 8, 1993, the Company elected to be taxed under the provisions of Sub-chapter "S" of the Internal Revenue Code, effective beginning with the calendar year 1993. Under those provisions, the Company has elected, by unanimous consent of its stockholders, not to pay federal corporate income taxes on its taxable income. Instead, the stockholders are liable for individual federal income taxes on their respective shares of the Company's income in their individual income tax returns, even though such income may or may not be distributed. No provision for income taxes has been provided for in the financial statements.

The Company files federal information tax returns annually. The Company is no longer subject to U.S. federal income tax examinations by federal tax authorities for the years before 2008.

Reclassifications

In order to facilitate comparison of financial data, certain amounts reported in the prior year have been reclassified to conform with the current year reporting format.

NOTE 2 - CASH AND CASH EQUIVALENTS

At December 31, 2011 and 2010, the carrying amounts of the Company's cash deposits were \$4,067,575 and \$1,337,988, respectively. The bank balances were \$4,411,556 and \$2,280,489, respectively. Of the respective bank balances, \$350,717 was insured by federal depository insurance.

NOTE 3 - ACCOUNTS AND CONTRACT RECEIVABLES

Accounts and contract receivables consist of the following:

	December 31,	
	<u>2011</u>	<u>2010</u>
Contract receivables:		
Billed:		
Completed contracts	\$ 545,000	1,037,653
Contracts in progress	1,726,986	777,945
Retainage	<u>1,329,897</u>	<u>1,491,448</u>
Total accounts and contract receivables.....	<u>\$ 3,601,883</u>	<u>3,307,046</u>

Receivables are written off in the year determined worthless. Bad debt expense charged to operations for the years ended December 31, 2011 and 2010 was \$5,640 and \$10,886, respectively.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

NOTE 4 - COSTS AND ESTIMATED EARNINGS ON UNCOMPLETED CONTRACTS

Costs and estimated earnings on uncompleted contracts consist of the following:

	December 31,	
	2011	2010
Costs incurred on uncompleted contracts.....	\$ 20,561,276	18,926,861
Estimated earnings.....	<u>3,248,022</u>	<u>1,789,409</u>
	23,809,298	20,716,270
Less: billings to date.....	<u>(27,453,918)</u>	<u>(21,723,242)</u>
Net amounts	<u>\$ (3,644,620)</u>	<u>(1,006,972)</u>
Included in the accompanying balance sheet under the following captions:		
Costs and estimated earnings in excess of billings on uncompleted contracts.....	\$ 49,459	395,709
Billings in excess of costs and estimated earnings on uncompleted contracts.....	<u>(3,694,079)</u>	<u>(1,402,681)</u>
Net amounts	<u>\$ (3,644,620)</u>	<u>(1,006,972)</u>

NOTE 5 - PROPERTY AND EQUIPMENT

The following is a summary of the major components of property and equipment:

	December 31,	
	2011	2010
Land.....	\$ 206,900	206,900
Building and improvements	2,820,493	2,820,493
Construction machinery and equipment	13,321,631	13,134,002
Aircraft	1,378,706	1,378,706
Office equipment, furniture and fixtures	<u>122,848</u>	<u>120,709</u>
	17,850,578	17,660,810
Less: accumulated depreciation.....	<u>(14,531,876)</u>	<u>(13,529,827)</u>
Net property and equipment.....	<u>\$ 3,318,702</u>	<u>4,130,983</u>

Total depreciation expense charged to operations for the years ended December 31, 2011 and 2010 was \$1,468,450 and \$1,757,441, respectively. During 2011 and 2010, the Company elected to sale or retire certain equipment that no longer had a useful life. The aggregate gain or (loss) on the sale or retirement of equipment during 2011 and 2010 was \$10,000 and \$1,473, respectively, and is reflected as gains or (losses) in the statements of income.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

NOTE 6 – MARKETABLE DEBT AND EQUITY SECURITIES

Investments are stated at fair value based on quoted prices in active markets (all Level 1 measurements). Cost and fair value of marketable debt and equity securities at December 31, 2011 (The Company did not hold such securities prior to 2011), are as follows:

	Amortized Costs	Gross Unrealized Gains/(Losses)	Fair Value
Available-for-sale			
Equity securities (MM Mutual Funds)	\$ 293,885	0	293,885
Municipal bonds	<u>706,529</u>	<u>11,744</u>	<u>718,273</u>
Totals	<u>\$ 1,000,414</u>	<u>11,744</u>	<u>1,012,158</u>

All investments are classified as “Available-for-sale” securities because it is not the intent of the Company to hold the securities to maturity. Therefore the investments are carried in the financial statements at fair value. Net unrealized holding gains in the amount of \$11,744 for the year ended December 31, 2011 have been included in accumulated other comprehensive income.

NOTE 7 – OTHER INVESTMENTS

Mortgage Note Receivable

The Company is invested in a mortgage note receivable with a security interest in certain real estate. The Company is schedule to receivable bi-monthly payments of \$853.69, representing principal and interest at 6.5% per annum. The mortgage note matures on October 1, 2025. Interest income recognized by the Company for the years ended December 31, 2011 and 2010 was \$9,977 and \$3,279, respectively. The balance of the mortgage note receivable at December 31, 2011 and 2010 was \$193,902 and \$201,179, respectively, and is included in other investments on the consolidated balance sheets.

Equity Investment

The Company owns an investment in Aviation Management, LLC. The sole purpose of Aviation Management, LLC is to operate and maintain the Company’s fractional interest share ownership in an aircraft. The Company’s equity investment represent thirty-seven and one half (37.5%) of the total investment in the limited liability company. The reported (losses) from the investment for 2011 and 2010 were (\$18,844) and (\$44,776), respectively, which is reflected in the consolidated statements of income. The Company advanced Aviation Management, LLC \$77,000 during the current year to meeting operational cash flow needs. The advance is expected to be converted to equity during the next current period. The net equity investment, including the advance, at December 31, 2011 and 2010 was \$60,642 and (\$3,514), respectively, and is included in other investments on the consolidated balance sheets.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

NOTE 8 - RELATED PARTY TRANSACTIONS

Officers' Salaries

During the years ended December 31, 2011 and 2010, the total aggregate compensation paid and charged to operations by the Company to its stockholders' and officers was \$245,193 and \$250,000, respectively.

Dividend Distributions

During the years ended December 31, 2011 and 2010, the total dividend distributions paid by the Company to its stockholders' was \$832,000 and \$5,314,369, respectively.

Fractional Share Ownership Agreement

Through PS Aviation, LLC, the Company has a fractional share ownership agreement with TI Aviation, LLC (related party) and TO Aviation, LLC (related party) involving the purchase of a fifty percent (50%) interest in an aircraft. TI Aviation, LLC and TO Aviation, LLC are entities owned wholly by the shareholders of the Company. The fractional share ownership percentages are allocated as follows; PS Aviation, LLC (37.5%), TI Aviation, LLC (6.25%) and TO Aviation, LLC (6.25%). The remaining fifty percent (50%) interest is owned by an unrelated party. During the current year ending December 31, 2011, \$8,750 was paid by the Company to TI Aviation, LLC for overuse allocation of the aircraft.

Construction Contract and Guaranty

During 2006, the Company entered into a contract agreement with a customer to provide road construction services. In return for its services, it is anticipated that the Company will receive title to a pre-designated tract of undeveloped land in lieu of cash. TP Investments, LLC, a related entity, owned entirely by the shareholders of the Company, agreed to purchase the land from the Company at the final construction contract price. The contract amount entered into with TP Investments, LLC totaled \$1,987,313, and was completed during the year ended December 31, 2010. The entire balance was paid in full by TP Investments, LLC as of December 31, 2010.

During 2011 and 2010, the Company had several arms length contract agreements with TP Investments, LLC, a related entity owned entirely by the shareholders of the Company, to provide land improvement and infrastructure construction services. The adjusted contract amounts entered into with TP Investments, LLC was \$2,089,566. At December 31, 2011 and 2010, the projects were on average 100% and 60.68% complete, with \$-0- and \$766,262 of total revenues recognized by the Company for all projects for 2011 and 2010, respectively. At December 31, 2011 and 2010, the Company's receivable amount from TP Investments, LLC was \$-0- and \$-0-, respectively relative to these projects.

NOTE 9 - OTHER CREDIT FACILITIES

Operating Line of Credit Agreement

During the current year, the Company entered into a revolving line of credit agreement with a local bank under which it may borrow up to \$1,000,000 in aggregate for working capital requirements. This credit facility bears interest on the unpaid balance when used at 5.5% per annum, and matures on September 30, 2012. The outstanding balance, if any, is secured by certain Company owned operating equipment and personal guarantees by the shareholders. During the current year there were no borrowings against this credit facility, and at December 31, 2011 there were no outstanding amounts due under the agreement.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

Deposits

At December 31, 2011 and 2010 the Company had utility deposits with Florida Power & Light Company in the amount of \$37,485 and \$6,562, respectively. The deposits are held as security for service payments.

NOTE 10 - DEFERRED SALARY AND EMPLOYEE BENEFIT PLANS

The Company has established a qualified cafeteria flexible benefit plan for its employees. Employees can elect to set aside pretax dollars to pay for their personal out-of-pocket medical, dental, cancer, disability and life insurance premium costs not covered by employer sponsored coverage. During the years ended 2011 and 2010, employer sponsored coverage and contributions to the plan totaled \$221,636 and \$212,384, respectively.

The Company has established a qualified profit sharing and employee salary deferral plan under IRC 401(k) for its employees. All full time employees who have reached the age of 21 and have twelve months of employment are eligible to participate in the plan. The Company participates in the plan by contributing 50% of the first 6% of qualifying basic salary on behalf of 40 participating employees. The funding vehicle used to administer the plan provides separate accounts for each participating employee, and all investments are participant directed. During the years ended 2011 and 2010, the Company's contributions to the plan totaled \$62,489 and \$38,981, respectively. Employees are 100% vested in elective salary deferral contributions and become 100% vested in Company matching contributions after three years of full-time service.

NOTE 11 - COMMITMENTS AND CONTINGENCIES

Concentrations of Credit Risk

All of the Company's business activities are related to projects in the State of Florida. At December 31, 2011, contracts receivable represented amounts due from public entities as well as commercial customers located in central Florida. The Company has no policy requiring collateral or other security to support its contract receivables, although it has statutory rights to file liens on real property for amounts owed the Company on non governmental contracts for which amounts due are not paid.

Operating Leases

The Company rents construction operating equipment on short term leases. The leases are cancelable within 30 days of written notice. Lease expense regarding such leases totaled \$465,887 and \$392,528 for the years ended December 31, 2011 and 2010, respectively.

Backlog

The following is a summary of the backlog representing the amount of revenue the Company expects to realize from work to be performed on uncompleted contracts in progress at December 31, 2011 and from contractual agreements on which work has not yet begun.

Total value of contracts in progress	\$ 42,304,115
Less: Contract revenue earned through the year ended December 31, 2011	<u>(23,809,298)</u>

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

December 31, 2011 and 2010

P & S PAVING, INC.

Daytona Beach, Florida

Total backlog on contracts in progress.....	18,494,817
New contracts signed prior to December 31, 2011 on which work has not yet begun.....	<u>8,594,287</u>
Total backlog at December 31, 2011	\$ <u>27,089,104</u>

Litigation

The Company is from time to time engaged in routine litigation incidental to the conduct of its business affairs. In the opinion of Counsel to the Company, no other legal proceedings are pending or threatened which may materially affect the financial condition of the Company.

NOTE 12 - TREASURY STOCK

In a previous year, the Company purchased 100 shares of its common stock at \$1,150 per share from one of its stockholders. The purchase price of \$115,000 is reported as treasury stock in the accompanying financial statements.

NOTE 13 – SUBSEQUENT EVENTS

In preparing these financial statements, the Company has evaluated events and transactions for potential recognition or disclosure through April 10, 2012, the date the financial statements were available to be used.

SCHEDULE OF EARNINGS FROM CONTRACTS

For the Year Ended December 31, 2011

P & S PAVING, INC.

Daytona Beach, Florida

Schedule 1

	Revenues Earned	Cost of Revenues Earned	Gross Profit (Loss)
Contracts completed during the year.....	\$ 25,663,960	23,772,881	1,891,079
Contracts in progress at year end.....	20,302,671	17,536,949	2,765,722
Other material and asphalt sales / Non contract sales.....	<u>477,259</u>	<u>243,402</u>	<u>233,857</u>
Totals.....	<u>\$ 46,443,890</u>	<u>41,553,232</u>	<u>4,890,658</u>

SCHEDULE OF CONTRACTS COMPLETED

For the Year Ended December 31, 2011

P & S PAVING, INC.

Daytona Beach, Florida

Contracts	Contract Number	Total Contract		
		Revenues Earned	Cost of Revenues	Gross Profit (loss)
State Road 417 Lake Jessup.....	9-048	\$ 6,126,742	5,354,880	771,862
Huntington Townhomes Dev.....	9-081	579,075	556,067	23,008
Lake Emma Road.....	9-106	882,016	793,217	88,799
FDOT E5N57.....	10-003	463,226	439,133	24,093
State Road 50 Turn Lanes.....	10-009	405,986	388,738	17,248
Runway 13-21.....	10-041	6,032,545	5,870,288	162,257
State Road 3 Courtney Parkway.....	10-046	2,486,818	2,421,034	65,784
Houligans, Port Orange.....	10-048	526,863	524,134	2,729
Williamson Boulevard.....	10-050	758,298	714,818	43,480
Holly Hill K8.....	10-053	800,875	798,476	2,399
D-5 Mill and Resurface.....	10-056	519,237	466,496	52,741
State Road 207 Intersection.....	10-059	867,958	798,902	69,056
State Road 5, US 1 & State Road40.....	10-070	2,449,861	2,225,193	224,668
Interstate I95 Resurface.....	10-072	10,955,469	10,055,776	899,693
State Road 5, (Nova) Herbert.....	11-001	2,653,350	2,317,471	335,879
Red Bug Lake Road.....	11-043	1,055,969	887,741	168,228
Various Small Contract Jobs.....		<u>5,309,315</u>	<u>5,063,051</u>	<u>246,264</u>
Totals.....		<u>\$ 42,873,603</u>	<u>39,675,415</u>	<u>3,198,188</u>

Schedule 2

Before January 1, 2011			For the Year Ended December 31, 2011		
Revenues Earned	Cost of Revenues	Gross Profit (Loss)	Revenues Earned	Cost of Revenues	Gross Profit (Loss)
5,510,708	4,840,475	670,233	616,034	514,405	101,629
579,075	556,067	23,008	-	-	-
575,259	493,376	81,883	306,757	299,841	6,916
422,348	383,955	38,393	40,878	55,178	(14,300)
225,630	220,754	4,876	180,356	167,984	12,372
4,261,112	4,125,458	135,654	1,771,433	1,744,830	26,603
884,280	870,572	13,708	1,602,538	1,550,462	52,076
314,570	322,470	(7,900)	212,293	201,664	10,629
157,110	149,709	7,401	601,188	565,109	36,079
715,634	685,068	30,566	85,241	113,408	(28,167)
351,642	315,910	35,732	167,595	150,586	17,009
43,442	40,002	3,440	824,516	758,900	65,616
12,590	11,236	1,354	2,437,271	2,213,957	223,314
2,666,637	2,443,376	223,261	8,288,832	7,612,400	676,432
-	-	-	2,653,350	2,317,471	335,879
-	-	-	1,055,969	887,741	168,228
<u>489,606</u>	<u>444,106</u>	<u>45,500</u>	<u>4,819,709</u>	<u>4,618,945</u>	<u>200,764</u>
<u>17,209,643</u>	<u>15,902,534</u>	<u>1,307,109</u>	<u>25,663,960</u>	<u>23,772,881</u>	<u>1,891,079</u>

SCHEDULE OF CONTRACTS IN PROGRESS

For the Year Ended December 31, 2011

P & S PAVING, INC.

Daytona Beach, Florida

Contracts	Job Number	Total Contract		Before January 1, 2011		
		Revenues	Estimated Gross Profit (Loss)	Revenues Earned	Cost of Revenues	Gross Profit (Loss)
Contracts in Progress:						
Putnam & St. Johns County....	8-125	1,047,625	411,440	587,520	253,808	333,712
SRA1A Summer Haven.....	9-071	686,725	94,105	122,364	104,992	17,372
Volusia County Sidewalk.....	10-064	1,115,500	128,189	105,775	93,493	12,282
City of Daytona Beach Res.....	10-078	4,673,427	727,608	2,203,371	2,098,700	104,671
7L-25R Daytona Beach AP....	10-084	15,144,760	1,976,347	487,597	473,334	14,263
SR 600 (US 92) T5351.....	11-010	1,833,025	220,353	-	-	-
Cobblestone Village.....	11-019	1,590,543	145,160	-	-	-
Highbanks Road Intersection..	11-032	530,104	7,949	-	-	-
Palm Harbor Parkway.....	11-047	1,422,677	190,825	-	-	-
Chapman Road.....	11-052	7,429,254	199,268	-	-	-
DIS West Lot.....	11-053	2,026,772	318,368	-	-	-
Altamira Shopping Center.....	11-054	2,506,477	274,304	-	-	-
Various Small Jobs.....		<u>2,297,226</u>	<u>252,342</u>	-	-	-
		<u>\$ 42,304,115</u>	<u>4,946,258</u>	<u>3,506,627</u>	<u>3,024,327</u>	<u>482,300</u>

Schedule 3

For the Year Ended December 31, 2011					As of December 31, 2011	
Revenues Earned	Cost of Revenues	Gross Profit (Loss)	Billed to Date	Estimated Cost to Complete	Costs and Estimated Earnings in Excess of Billings	Billings in Excess of Costs and Estimated Earnings
(8,380)	99,520	(107,900)	975,118	282,857	-	395,978
324,695	281,002	43,693	514,475	206,626	-	67,416
64,170	57,050	7,120	495,778	836,768	-	325,833
2,297,224	1,705,066	592,158	4,559,044	142,053	-	58,449
12,621,238	10,925,568	1,695,670	14,877,931	1,769,511	-	1,769,096
321,689	283,018	38,671	561,141	1,329,654	-	239,452
1,120,825	1,018,534	102,291	1,076,870	426,849	43,955	-
283,267	279,019	4,248	323,172	243,136	-	39,905
28,512	24,687	3,825	30,348	1,207,165	-	1,836
579,861	564,308	15,553	820,652	6,665,678	-	240,791
1,584,028	1,335,207	248,821	2,007,666	373,197	-	423,638
5,504	4,901	603	-	2,227,272	5,504	-
<u>1,080,038</u>	<u>959,069</u>	<u>120,969</u>	<u>1,211,723</u>	<u>1,085,815</u>	<u>-</u>	<u>131,685</u>
<u>20,302,671</u>	<u>17,536,949</u>	<u>2,765,722</u>	<u>27,453,918</u>	<u>16,796,581</u>	<u>49,459</u>	<u>3,694,079</u>

SECTION 00301-C
Sub Contractors and Affiliates Form

The following are a list of Sub Contractors or Affiliates that will be utilized in this project. Use additional sheets if necessary.

FIRM NAME	TRADE	TELEPHONE AND FAX NUMBER
Stellar Pavement Markings	Striping/Signs	(386) 846-5002 (386) 846-6669
Chincher	Signals	(386) 774-1020 (386) 774-7233
Hazen Construction	Pipe Work	(386) 322-8700 (386) 756-0000
		()
		()
		()
		()
		()
		()
		()

In the event our firm is awarded this bid, the City of Deltona will be notified of any changes made to this Sub Contractors list before and during any and all work performed during this project.

The Sub-Contractor listing Form Must Be Completed and Returned with your Submittal.

SECTION 00301-D

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that

P+S Paving, Inc does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's 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. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify 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. Impose a sanction on, or require 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. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

X 
Bidder's Signature

2-26-13
Date

This Form Must Be Completed and Returned with your Submittal, if applicable

SECTION 00301-E

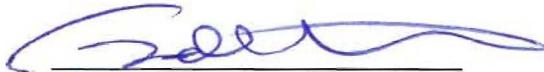
HOLD HARMLESS AND INDEMNITY AGREEMENT

P+S Paving, Inc., agrees through the signing of this document by an authorized party or agent that it shall defend, indemnify and hold harmless the City of Deltona, and its agents, employees, and public officials from and against all suits, losses, claims, demands, judgments of every name and description arising out of or incidental to the performance of this contract or work performed thereunder, whether or not due to or caused by the negligence of the City of Deltona, its agents, employees, and public officials excluding only the sole negligence of the City of Deltona, its agents, employees, and Public Officials.

This provision shall also pertain to any claims brought against the City of Deltona, its agents, employees, and public officials by an employee of the named Contractor, any Sub-contractor, or anyone directly or indirectly employed by any of them.

The Contractor's obligation to indemnify the City of Deltona, its agents, employees and public officials under this provision shall be limited to \$1,000,000 per occurrence which the parties agree bears a reasonable commercial relationship to the contract.

The Contractor agrees to accept, and acknowledges as adequate remunerations, the consideration of \$10, which is part of the agreed bid price, the promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, for agreement to enter into this Hold Harmless and Indemnity Agreement.



CONTRACTOR

2-26-13
DATE

This Form Must Be Completed and Returned with your Submittal.

SECTION 00301-F

Statement of No Bid

Bid No.: ITB # PW 13-05 Normandy Blvd (Sec B) Saxon Blvd. to Fort Smith Blvd

If your company does not intend to bid on this Procurement, please complete and return this form prior to the date shown for receipt of bids to: PUBLIS WORKS DIVISION, CITY OF DELTONA, Purchasing Agent, 255 Enterprise Road, Deltona, FL 32725.

We, the undersigned, have declined to bid on the above referenced Invitation to Bid for the following reason(s):

- Specifications are too "restrictive." (Please explain below)
- Unable to meet specifications
- Specifications were unclear. (Please explain below)
- Insufficient time to respond
- We do not offer this type of product or equivalent
- Our production schedule would not permit us to perform
- Unable to meet bond requirements
- Other (please explain below)

N.A.

REMARKS:

N.A.

P+S Paving, Inc

Company Name

386-258-7911

Telephone

X



Signature

386-258-9313

Fax

Vice President

Title

Todd Phillips

Typed or Printed Name

3701 Olson Dr

Address

Daytona Beach,

City

FL

State

32124

Zip

SECTION 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, P & S Paving, Inc. _____ as Principal, and Western Surety Company _____ as Surety, are hereby held and firmly bound unto the City of Deltona, Florida as Owner in the penal sum of, (five percent 5%) of the Contract Bid) _____ for the payment of which, well and truly to be made, we hereby and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.
Signed, this 19th day of February, 2012.

The condition of the above obligation is such that whereas the Principal has submitted to City of Deltona, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for Roadway Improvements.

NOW THEREFORE,

1. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder's bid and Bidder delivers within the time required by the Bidding Documents (or an extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents, or
 - 2.2 All bids are rejected by Owner, or
 - 2.3 Owner fails to issue a notice of award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this Bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, providing that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
5. No suite or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
6. Any suite or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the part concerned.
8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
9. This bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term "bid" as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name):

P & S Paving, Inc.

Surety (Print Full Name):

Western Surety Company (Seal)

Surety's Name and Corporate Seal

By: [Signature] (LS)

Title: VICE PRESIDENT

Attest: Kathy Muceli CONTRACT ADMINISTRATOR
Signature and Title

By: [Signature]
Signature (attach power of attorney)

Title: John Howard Hosey, Attorney-In-Fact & FL Licensed Resident Agent

Attest: [Signature]
Kelly Whitaker

February 19, 2013

(Date)

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida. See Article 5 of the General Conditions as amended by Supplementary Conditions.

END OF SECTION

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

John Howard Hosey, Rex Franklin Caton, B Ann Pinel, Kelly D Whitaker, Individually

of Port Orange, FL, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 31st day of July, 2012.



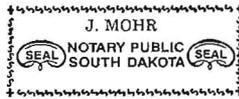
WESTERN SURETY COMPANY

Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 31st day of July, 2012, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2015



J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 19th day of February, 2013.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

SECTION 00420

CORPORATE RESOLUTION

I, Tim Phillips, Secretary of P+S Paving, Inc, a corporation organized and existing under the laws of the state of Florida, hereby certify that at a meeting of the Board of Directors of the Corporation duly called and held on 2-26, 2013 at which a quorum was present and acting throughout, the following resolutions were adopted and are now in full force and effect:

RESOLVED that the following individuals of this corporation are authorized to execute on behalf of this corporation a Bid and Agreement to City of Dallas for the construction of Roadway improvements on Fort Smith Boulevard (Section 2).

I further certify that the names of the officers of this corporation and any other persons authorized to act under this resolution and their official signatures are as follows:

<u>NAME</u>	<u>OFFICE</u>	<u>OFFICIAL SIGNATURE</u>
<u>Tim Phillips</u>	<u>President</u>	
<u>Todd Phillips</u>	<u>Vice President</u>	
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

IN WITNESS THEREOF, I have hereunto subscribed my name as Secretary and affixed the seal of the corporation this 26th day of Feb, 2013

END OF SECTION

SECTION 00470

SWORN STATEMENT UNDER SECTION 287.133(3)(A), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the City of Deltona by Todd Phillips
(Individual's name and title)

For P+S Paving, Inc
(Name of entity submitting sworn statement)

Whose business address is
3701 Olson Drive
Daytona Beach, FL 32124

And (if applicable) its Federal Employer Identification Number (FEIN) is 59-3155035
(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

1. I understand that a "public entity crime" as defined in Section 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 with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or a of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
1. 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 crimes, 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.
2. I understand that an "affiliate" as defined in Section 287.133(1)(a), Florida Statutes, means:

A predecessor or successor of a person convicted of a public entity crime: or an entity under the control of any natural person who is active in the management of the entity and how 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 (1) 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 thirty-six (36) months shall be considered an affiliate.
3. I understand that a "person" as defined in Section 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.

4. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (You must indicate which statement applies.)

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

The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before an Administrative Law Jury of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Administrative Law Jury determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (You must attach a copy of the final order).

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CITY OF DELTONA IS FOR THE CITY 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 CITY PRIOR TO ENTERING IN TO 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

2-26-13

DATE

State of Florida
County of Volusia

Personally appeared before me, the undersigned authority, Todd Phillip (name of individual signing) who, after first being sworn by me, affixed his/her signature in the space provided above on the 26th day of Feb, 20 13



NOTARY PUBLIC

My commission expires: 8/25/2014



DONNA M. HENDRICKSON
NOTARY PUBLIC
STATE OF FLORIDA
Comm# EE009891
Expires 8/25/2014

This Form Must Be Completed and Returned with your Submittal

SECTION 00480
NON COLLUSION AFFIDAVIT FORM

STATE OF FLORIDA

COUNTY OF VOLUSIA

Todd Phillips, being first duly sworn deposes and says that:

1. He (it) is the Vice President, of PTS Peving, Inc, the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

By [Signature]

Sworn and subscribed to before me this 20th day of Feb, 2013, in the State of Florida County of Volusia

Donna M. Hendrickson
Notary Public

My Commission expires: 8/25/2014



DONNA M. HENDRICKSON
NOTARY PUBLIC
STATE OF FLORIDA
Comm# EE009891
Expires 8/25/2014

This Form Must Be Completed and Returned with your Submittal

SECTION 00490

TRENCH SAFETY AFFIDAVIT

Trench excavations on this Project are expected to be in excess of 5 feet deep. The Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 Subpart P Trench Safety Standards will be in effect during the period of construction of the Project.

Bidder acknowledges that included in the Bid Price are costs for complying with the Florida Trench Safety Act (90-096, Laws of Florida) effective October 1, 1990, and hereby gives assurance that, if awarded the Contract, the Contractor or Subcontractor performing trench excavation work on the Project will comply with the applicable trench safety standards. The Bidder further identified the costs as follows:

**CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION B**

<u>Trench Safety Item (description)</u>	<u>Unit Cost</u>
<u>Sheeting</u>	<u>\$ 1⁰⁰</u>
<u>one hundred dollars and zero cents</u>	
(Cost in Words)	
Total: \$	<u>100⁰⁰</u>

FAILURE TO COMPLETE THE ABOVE SHALL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE.

COMPANY NAME: P+S Paving, Inc

DATE: 2-26-13

BY: [Signature]

END OF SECTION

ADDENDUM # 1
CITY OF DELTONA
BID # PW 13-05
January 30, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Until further notice:

- Questions regarding this bid shall be addressed in writing to:

-

Kate Krauss

Purchasing Manager

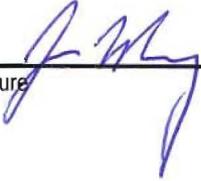
Email: kkrauss@deltonafl.gov

Fax: 386-878-8571

- Questions will not be accepted over the phone.
-
- Bidders are asked to acknowledge receipt of this addendum by signing below and returning the signed addendum with their bid submittal. Failure to do so may subject the bidder to disqualification.

Vendor Acknowledgement of Receipt of Addendum:

Signature



1-30-13

Return a signed copy of this addendum with your bid

ADDENDUM # 2

CITY OF DELTONA

BID # PW 13-05

February 5, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is to delete the current bid forms, pages 3-6 of Section 00300, and replace them with the bid forms that are attached to this addendum. The new bid form is also being uploaded to Demandstar in Excel format for your convenience in completing it. Use only these bid forms when submitting your bid. All other pages still apply.

Failure to use the revised bid forms shall deem your bid non-responsive.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

P+S Paving, Inc
NAME OF BUSINESS

BY: J. Murray
SIGNATURE/DATE

Joe Murray Estimator
NAME & TITLE, TYPED OR PRINTED

3701 Olson Dr
MAILING ADDRESS

Daytona Beach, FL 32124
CITY, STATE, ZIP CODE

ADDENDUM # 3
CITY OF DELTONA
BID # PW 13-05
February 12, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is change the bid due date to Thursday, February 28, 2013 at 2:00 p.m. at the Water Dept. located at 255 Enterprise Road, Deltona, Florida 32725.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

P+S Paving, Inc
NAME OF BUSINESS

BY: JM
SIGNATURE/DATE

Joe Murray Estimator
NAME & TITLE, TYPED OR PRINTED

3701 Olson Dr
MAILING ADDRESS

Deltona Beach, FL 32124
CITY, STATE, ZIP CODE

ADDENDUM # 4
CITY OF DELTONA
BID # PW 13-05
February 18, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Tetra Tech Plans:

The Tetra Tech Water Main Improvement Plans are for bid preparation purposes.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

P+S Paving, Inc
NAME OF BUSINESS

J. Murray 2-18-13
BY SIGNATURE / DATE

Joe Murray Estimator
NAME & TITLE, TYPED OR PRINTED

3701 Olson Drive
MAILING ADDRESS

Daytona Beach Florida 32124
CITY, STATE, ZIP CODE

**ADDENDUM # 5
CITY OF DELTONA
BID # PW 13-05
February 27, 2013**

NORMANDY BOULEVARD – SECTION “B” ROADWAY IMPROVEMENTS

This addendum is to announce the extension of the bid due date of this solicitation.

The bid due date has been changed. The bid due date is now Monday, March 4, 2013 at 2:00 p.m. This is to allow for an additional addendum to be posted identifying additional changes to the scope of work. It is anticipated that addendum # 6 will be posted within the next 24 hours.

All prospective bidders are hereby instructed not to contact the Engineer of Record or any member of the City of Deltona Commission, City Manager, or City of Deltona Staff members other than the noted contact person regarding this Invitation to Bid or their bid proposal at any time during the solicitation or award process. Any such contact shall be cause for rejection of your bid proposal.

All inquiries are to be directed to the Purchasing Agent for the Public Works Division at the City of Deltona. Contact for this solicitation is: Brian Boehs, Purchasing Agent. Email address is bboehs@deltonafl.gov. Phone is 386-878-8955.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

P+S Paving Inc
NAME OF BUSINESS

BY: Jr Murray
SIGNATURE/DATE

Joe Murray Estimator
NAME & TITLE, TYPED OR PRINTED

3701 Olson Dr
MAILING ADDRESS

Daytona Beach, FL 32124
CITY, STATE, ZIP CODE

ADDENDUM #6
CITY OF DELTONA
BID #PW 13-05
February 27, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Revised Drawings: Tetra Tech Plans

Tetra Tech Drawing G002 –
Please insert the following notes:

General Notes for Work Conducted within Volusia County R/W:

1. Driving and/or Staging of construction vehicles is not permitted on any sidewalks in the Right-Of-Way. Any damage to sidewalks will be repaired and/or replaced in like kind by the Contractor.
2. Any road, lane or sidewalk closure requires review and approval in advance and a seven (7) day minimum notice to Volusia County Traffic Operations (386-239-6535).
3. All existing sidewalks within County Rights of Way shall remain open or provision of a temporary walkway shall be provided in accordance with version 2010 of Florida Department of Transportation Standard Index #660 "Mid Block Closure with Temporary Walkway" unless otherwise approved by the County Traffic Engineer. Please Note that Index #660 must be shown on the use permit plans.
4. No trench or excavation shall be left open or unattached overnight, unless the excavations within the clear zone of the roadway meet the drop off criteria of the 2010 Florida Department of Transportation Design Standards (Index 600) "Of Properly Barricaded and Secured Excavations", including all equipment and materials.
5. All disturbed areas within the County Right of Way shall be sodded. Seed and Mulch is not acceptable.

Tetra Tech Drawing C503 –
Detail 1 and Detail 2 have been revised.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

P+S Paving Inc
NAME OF BUSINESS

AMJ 2-27-13
BY SIGNATURE / DATE

Joe Mursey Estimator
NAME & TITLE, TYPED OR PRINTED

3701 Olson Drive
MAILING ADDRESS

Daytona Beach FL 32124
CITY, STATE, ZIP CODE

SECTION 00300
BID RESPONSE FORM
BID NO. ITB # PW 13-05
Normandy Boulevard (Sec. B)
Saxon Blvd to Fort Smith Blvd

DATE SUBMITTED: 2/29/13

PROJECT IDENTIFICATION: **City of Deltona**
ITB # PW 13-05
Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd

NAME OF BIDDER: Westwind Contracting

BUSINESS ADDRESS: 3799 W. Hallandale Beach Boulevard, Pensacola Park FL 33023

TELEPHONE NUMBER: 954-961-7200

CONTRACTOR'S FLORIDA LICENSE NO.: CGC151290

THIS BID IS SUBMITTED TO: **City of Deltona**
Public Works Division
255 Enterprise Road
Deltona, Florida 32725

1. In accordance with the foregoing terms, conditions and specifications, the undersigned bidder, having become familiarized with the conditions affecting the cost of the work and with all requirements of the proposed Bid Documents, and duly issued Addenda to said documents, as acknowledged herein, proposes to furnish and perform all things required in labor, material, necessary tools, expendable equipment, and all services necessary to perform and complete in a workmanlike manner all work required by said documents and Addenda.
2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.
3. In submitting this bid, Bidder makes all representations required by the Instructions to Bidders and further warrants and represents that:

a. Bidder has examined and carefully studied the Bidding Documents and the following Addendum receipt of which is hereby acknowledged:

No. <u>1</u>	Dated <u>1/20/13</u>	No. <u>5</u>	Dated <u>2/27/13</u>
No. <u>2</u>	Dated <u>2/5/13</u>	No. <u>6</u>	Dated <u>2/27/13</u>
No. <u>3</u>	Dated <u>2/12/13</u>	No. _____	Dated _____
No. <u>4</u>	Dated <u>2/18/13</u>	No. _____	Dated _____

b. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bid Documents, and Addendum.

- c. All Bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place, and ready for operation in the manner contemplated by the Bid Documents and addendum.
 - d. Bidder declares their bid submittal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder submits the following unit prices to perform all the work as required by the Bid documents and Specifications for the **City of Deltona, Normandy Blvd (Sec. B), Saxon Blvd to Fort Smith Blvd.**

All bid items shall include all materials, equipment, labor, permit fees, taxes, tests, miscellaneous costs of all types, overhead and profit for the item to be complete, in place and ready for operation in the manner contemplated by the Bid documents and addendum.

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
101-1	Mobilization	LS	1	\$63,480.00	\$ 63,480.00
102-1	Maintenance of Traffic	LS	1	\$78,400.00	\$ 78,400.00
102-3	Commercial Material for Driveway Maintenance	CY	500	\$40.50	\$ 20,250.00
104-100	Erosion Control Measures	LS	1	\$29,780.00	\$ 29,780.00
110-1-1	Clearing & Grubbing	AC	9	\$2,250.00	\$ 20,250.00
110-7-1	Mailbox, F&I, Single	EA	23	\$130.00	\$ 2,990.00
120-1	Regular Excavation	CY	16,000	\$8.30	\$ 132,800.00
120-6	Embankment	CY	1,500	\$12.50	\$ 18,750.00
160-4	Stabilization, Type B	SY	17,000	\$5.00	\$ 85,000.00
285-70-9	Optional Base Group 9	SY	12,050	\$10.50	\$ 126,525.00
334-1-12	Type SP Structural Course (Traffic Level B)	TN	1,326	\$81.50	\$ 108,069.00
334-7-30	Friction Course (FC-9.5) (Rubber)	TN	663	\$114.00	\$ 75,582.00
400-1-2	Conc. Class I, Endwalls	CY	9	\$1,825.00	\$ 16,425.00
400-1-11	Conc. Class I, Retaining Walls	CY	0	\$1,040.00	\$ -
425-1-311	Inlets(Curb)(Type P-1)<10'	EA	22	\$3,435.00	\$ 75,570.00
425-1-321	Inlets(Curb)(Type P-2)<10'	EA	5	\$4,155.00	\$ 20,775.00
425-1-521	Inlets(DT Bot)(Type C)<10'	EA	1	\$1,760.00	\$ 1,760.00
425-1-551	Inlets(DT Bot)(Type E (Special Design)	EA	2	\$4,350.00	\$ 8,700.00
425-2-41	Manholes (P-7)<10'	EA	1	\$1,915.00	\$ 1,915.00
430-171-118	Pipe Culv (Opt Matl)(Round)(18"SS)	LF	1,143	\$30.00	\$ 34,290.00
430-171-124	Pipe Culv (Opt Matl)(Round)(24"SS)	LF	1,125	\$49.50	\$ 55,687.50
430-171-130	Pipe Culv (Opt Matl)(Round)(30"SS)	LF	567	\$61.50	\$ 34,870.50
430-171-142	Pipe Culv (Opt Matl)(Elliptical)(42"SS)	LF	77	\$84.00	\$ 6,468.00
430-982-125	Mitered End Section, Optional Round, 18" CD	EA	3	\$705.00	\$ 2,115.00
430-982-133	Mitered End Section, Optional Round, 30" CD	EA	1	\$1,160.00	\$ 1,160.00
520-1-10	Curb & Gutter Conc - Type F	LF	5,690	\$14.50	\$ 82,505.00
522-1	Sidewalk Concrete, 4" Thick	SY	2,731	\$34.50	\$ 94,219.50
522-2	Sidewalk Concrete, 6" Thick	SY	1,072	\$44.50	\$ 47,704.00
524-1-29	Concrete Ditch Pavt, Reinforced 4"	SY	127	\$83.00	\$ 10,541.00
530-3-3	Riprap, Rubble and Filter Fabric	TN	20	\$78.50	\$ 1,570.00
570-1-2	Performance Turf Sodding	SY	18,850	\$1.80	\$ 33,930.00
630-1-12	Conduit (F&I)(Underground)	LF	20	\$5.90	\$ 118.00
630-1-14	Conduit (F&I)(Underground-Jacketed)	LF	140	\$21.50	\$ 3,010.00
632-7-1	Cable (Signal)(F&I)	PI	1	\$4,880.00	\$ 4,880.00
634-4-113	Span Wire Assembly (F&I)(Two Wire)(Box)	PI	1	\$3,990.00	\$ 3,990.00
635-1-11	Pull and Junction Boxes (F&I) (Pull Box)	EA	2	\$776.00	\$ 1,552.00
641-2-16	Prestressed Concrete Strain Pole (F&I) (Type P-VI)	EA	2	\$10,960.00	\$ 21,920.00
650-51-313	Traffic Signal (F&I) (3-Section)(1-Way)(Polycarbonate/LED)	AS	8	\$939.00	\$ 7,512.00
653-191	Signal Pedestrian (F&I) (LED Countdown)(1- Way)	AS	4	\$674.00	\$ 2,696.00
653-192	Signal Pedestrian (F&I) (LED Countdown)(2- Way)	AS	1	\$1,325.00	\$ 1,325.00
659-101	Signal Head Auxullaries (F&I)(Backplates 3 Section)	EA	5	\$140.00	\$ 700.00
659-106	Signal Head Auxullaries (F&I)(Tunnel Visor)	EA	20	\$2.10	\$ 42.00
660-1-103	Loop Detector, Inductive (F&I)(Type 3, 1CH, SS, S)	EA	4	\$139.00	\$ 556.00
660-1-104	Loop Detector, Inductive (F&I)(Type 4, 1CH, SS, S)	EA	1	\$174.00	\$ 174.00
660-2-106	Loop Assembly (F&I)(Type F)	AS	5	\$909.00	\$ 4,545.00
665-13	Detector, Pedestrian (F&I)(Detector w/ Sign)	EA	4	\$304.00	\$ 1,216.00
670-5-410	Traffic Control Assembly (Modify)(NEMA)	AS	1	\$1,335.00	\$ 1,335.00
690-10	Traffic Signal Head Assembly, Remove	EA	8	\$80.00	\$ 640.00
690-20	Pedestrian Signal Assembly, Remove	EA	4	\$49.00	\$ 196.00
690-34-1	Complete Pole removal (Deep) Direct Burial)	EA	2	\$1,945.00	\$ 3,890.00
690-80	Span Wire Assembly (Remove)	EA	1	\$576.00	\$ 576.00
690-90	Remove Cabling and Conduit	PI	1	\$257.00	\$ 257.00
690-100	Signal Equipment, Miscellaneous, Remove	PI	1	\$513.00	\$ 513.00
699-1-1	Internally Illuminated Sign (F&I)(Street Name)	EA	4	\$3,745.00	\$ 14,980.00
700-20-11	Sign, Single Post (< 12 SF)	AS	8	\$338.00	\$ 2,704.00

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

<i>Pay Item</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
700-20-40	Sign, Existing (Relocate) (Single Post)	AS	3	\$78.00	\$ 234.00
700-20-60	Sign, Existing (Remove) (Single Post)	AS	10	\$52.00	\$ 520.00
700-46-21	Sign, Existing (Relocate) (Single Post)	AS	14	\$130.00	\$ 1,820.00
700-48-48	Sign Panel (Relocate)(15 or less SF)	EA	6	\$78.00	\$ 468.00
706-3	Retro-Reflective Pavement Marker	EA	291	\$4.70	\$ 1,367.70
711-11-111	Thermoplastic, Standard, White, Solid, 6"	NM	1.139	\$6,040.00	\$ 6,879.56
711-11-123	Thermoplastic, Standard, White, Solid, 12"	LF	463	\$2.40	\$ 1,111.20
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	532	\$4.60	\$ 2,447.20
711-11-151	Thermoplastic, Standard, DOT Guide, 6"	LF	530	\$0.95	\$ 503.50
711-11-160	Thermoplastic, Standard, White, Message	EA	15	\$125.00	\$ 1,875.00
711-11-170	Thermoplastic, Standard, White, Arrow	EA	43	\$87.50	\$ 3,762.50
711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	NM	1.19	\$6,040.00	\$ 7,187.60
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	105	\$3.60	\$ 378.00
711-11-231	Thermoplastic, Standard, Yellow, Skip, 6"	GM	0.77	\$4,940.00	\$ 3,803.80
711-11-251	Thermoplastic, Standard, Yellow, DOT/Guide, 6"	LF	985	\$0.95	\$ 935.75
ROADWAY BASE BID SUBTOTAL				\$	1,404,702.31

City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05

<i>Item No.</i>	<i>Description</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Cost</i>	<i>Total Cost</i>
1	Mobilization/Demobilization	LS	1	\$53,280.00	\$ 53,280.00
2	General Requirements, Bonds and Insurance	LS	1	\$23,450.00	\$ 23,450.00
3	Locate Utilities in Advance of Construction	LS	1	\$18,230.00	\$ 18,230.00
4	Survey Layout and As-Builts	LS	1	\$25,080.00	\$ 25,080.00
5	Furnish and install 4-inch DIP water main (restrained joint)	LF	80	\$33.50	\$ 2,680.00
6	Furnish and install 6-inch PVC water main (restrained joint)	LF	710	\$18.50	\$ 13,135.00
7	Furnish and install 6-inch PVC water main (push)	LF	115	\$15.50	\$ 1,782.50
8	Furnish and install 6-inch DIP water main (restrained joint)	LF	200	\$34.00	\$ 6,800.00
9	Furnish and install 8-inch PVC water main (restrained joint)	LF	30	\$29.00	\$ 870.00
10	Furnish and install 8-inch PVC water main (push)	LF	0	\$20.50	\$ -
11	Furnish and install 12-inch DIP water main (restrained joint)	LF	120	\$54.50	\$ 6,540.00
12	Furnish and install 16-inch PVC water main (restrained joint)	LF	2340	\$53.50	\$ 125,190.00
13	Furnish and install 16-inch PVC water main (push)	LF	1030	\$42.50	\$ 43,775.00
14	Furnish and install 16-inch DIP water main (restrained joint)	LF	185	\$72.50	\$ 13,412.50
15	Abandon and grout fill existing water main	LF	4920	\$3.00	\$ 14,760.00
16	Removal and disposal existing water main	LF	2100	\$8.10	\$ 17,010.00
17	4-inch 45 Degree Bend	EA	4	\$228.00	\$ 912.00
18	6-inch 45 Degree Bend	EA	16	\$274.00	\$ 4,384.00
19	6-inch 22.5 Degree Bend	EA	2	\$277.00	\$ 554.00
20	6-inch 11.25 Degree Bend	EA	3	\$279.00	\$ 837.00
21	8-inch 45 Degree Bend	EA	2	\$352.00	\$ 704.00
22	12-inch 45 Degree Bend	EA	4	\$551.00	\$ 2,204.00
23	16-inch 11.25 Degree Bend	EA	7	\$1,025.00	\$ 7,175.00
24	16-inch 22.5 Degree Bend	EA	1	\$1,005.00	\$ 1,005.00
25	16-inch 45 Degree Bend	EA	34	\$1,010.00	\$ 34,340.00
26	6-inch Tee	EA	1	\$414.00	\$ 414.00
27	16 x 4-inch Tee	EA	1	\$1,270.00	\$ 1,270.00
28	16 x 6-inch Tee	EA	4	\$1,200.00	\$ 4,800.00
29	16 x 8-inch Tee	EA	1	\$1,260.00	\$ 1,260.00
30	16 x 12-inch Cross	EA	1	\$1,920.00	\$ 1,920.00
31	6 x 4-inch Reducer	EA	2	\$234.00	\$ 468.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
32	16 x 12-inch Reducer	EA	1	\$750.00	\$ 750.00
33	4-inch Gate Valve	EA	1	\$652.00	\$ 652.00
34	6-inch Gate Valve	EA	5	\$831.00	\$ 4,155.00
35	8-inch Gate Valve	EA	1	\$1,195.00	\$ 1,195.00
36	12-inch Gate Valve	EA	3	\$2,095.00	\$ 6,285.00
37	16-inch Gate Valve	EA	4	\$6,210.00	\$ 24,840.00
38	Air Release Valve	EA	6	\$4,995.00	\$ 29,970.00
39	Fire Hydrant	EA	11	\$3,585.00	\$ 39,435.00
40	1-inch Single Service - Short	EA	13	\$352.00	\$ 4,576.00
41	1-inch Single Service - Long	EA	5	\$445.00	\$ 2,225.00
42	1-inch Double Service - Short	EA	5	\$417.00	\$ 2,085.00
43	1-inch Double Service - Long	EA	14	\$547.00	\$ 7,658.00
44	4-inch Direct Connect & Fitting Assembly – Potable	EA	4	\$344.00	\$ 1,376.00
45	6-inch Direct Connect & Fitting Assembly – Potable	EA	2	\$279.00	\$ 558.00
46	8-inch Direct Connect & Fitting Assembly – Potable	EA	1	\$352.00	\$ 352.00
47	12-inch Direct Connect & Fitting Assembly – Potable	EA	3	\$666.00	\$ 1,998.00
48	Testing and Laboratory Services (Allowance)	LS	1	\$5,200.00	\$ 5,200.00
SUBTOTAL UTILITY BASE BID				\$	561,552.00

**City of Deltona - Normanday Boulevard (Section B)
Saxon Boulevard to Fort Smith Boulevard
Bid No. ITB #PW 13-05**

SUBTOTAL ROADWAY BASE BID:

One million, four hundred and four thousand, seven hundred and two dollars and thirty-one cents. (IN WORDS)	\$ 1,404,702.31 (IN FIGURES)
---	---------------------------------

SUBTOTAL UTILITY BASE BID:

Five hundred and sixty-one thousand, five hundred and fifty-two dollars. (IN WORDS)	\$ 561,552.00 (IN FIGURES)
--	-------------------------------

TOTAL ROADWAY & UTILITY BASE BID:

One million, nine hundred and sixty-six thousand, two hundred and fifty-four dollars and thirty-one cents. (IN WORDS)	\$ 1,966,254.31 (IN FIGURES)
---	---------------------------------

1. The following documents are attached to and made a condition of this Bid:

1. Bid Response Forms (Bidding Documents, entire Section 00300).
2. Bidders Contact and Information Form (Section 00301).
3. References (Section 00301-A).
4. Questionnaire Form (Section 00301-B)
5. Sub-Contractors and Affiliates Form (Section 00301-C)
6. Bid Bond or security (surety bond or cashier's check). (Section 00410).
7. Power of Attorney (for surety bond only).
8. Corporate Resolution (any corporate employee other than president or vice-president, Section 00420).
9. Sworn Statement Pursuant to Section 287.133(3)(a), Florida Statutes on Public Entity Crimes (Section 00470)
10. Non-collusion Affidavit (Section 00480).
11. Trench Safety Affidavit (Section 00490).

END OF SECTION

SECTION 00301-A

References

**References who are located in foreign countries are not acceptable.
The Reference Form Must Be Completed and Returned with your Submittal.**

1. Project Name: Tensolite
Project Value: 409,1045.10
Project Description: Stormwater system, drainage structures, bag pad & parking lot
Project Owner: CES Engineering
Project Owner's contact info: Michael Cammisa 913-969-2366
Project Location: St. Augustine, Florida
Project Start and End Dates: 3/2011 - 7/2011

2. Project Name: SE 31st Street Improvements
Project Value: 5,199,981.62
Project Description: Road widening & new road construction
Project Owner: Maicun County
Project Owner's contact info: Michael Butzer 352-671-9696
Project Location: Ocala, Florida
Project Start and End Dates: 8/2009 - 11/2010

3. Project Name: Downtown CRA Utility Undergrounding
Project Value: 1,276,823.99
Project Description: Updated utilities & drainage in downtown area
Project Owner: City of Flagler Beach
Project Owner's contact info: David King 321-761-6810
Project Location: Flagler Beach, Florida
Project Start and End Dates: 7/2009 - 7/2010

4. Project Name: Quad Culvert Replacement
Project Value: 1,433,372.00
Project Description: concrete box culvert installation, widened roadway
Project Owner: St. Johns County
Project Owner's contact info: Nick Terpich 904-209-0136
Project Location: Bakersville, Florida
Project Start and End Dates: 9/2009 - 04/2010

5. Project Name: Emeralda Marsh Conservation Restoration
Project Value: 287,000.00
Project Description: Installed concrete box culvert
Project Owner: St. Johns River Water Management District
Project Owner's contact info: Cliff Gandy 386-329-4322
Project Location: Leesburg, Florida
Project Start and End Dates: 6/2010 - 8/2010

6. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

7. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

8. Project Name: _____
Project Value: _____
Project Description: _____
Project Owner: _____
Project Owner's contact info: _____
Project Location: _____
Project Start and End Dates: _____

SECTION 00301-B
QUESTIONNAIRE FORM

DATE: 2/28/13

PROJECT IDENTIFICATION **CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION "B"**

NAME OF BIDDER: Westwind Contracting

BUSINESS ADDRESS: 3799 W. Hillandale Bch Blvd., Pembroke Park FL 33023

TELEPHONE NO.: 954-961-7200

CONTRACTOR'S FLORIDA LICENSE NO.: CGC1512900

The undersigned warrants the truth and accuracy of all statements and answers herein contained. Include additional sheets if necessary.

1. How many years has your organization been in business as a General Contractor?

27 years

2. List similar roadway projects that you have undertaken in the most recent three year period. Identify the Owner and a Contact Person:

Project	Municipality / Owner	Contact Name/Number
<u>SE 31st Street</u>	<u>Marion County</u>	<u>Mike Butzer 352-671-8686</u>
<u>Downtown CRA</u>	<u>City of Flagler Bch</u>	<u>David King 386-761-6816</u>
<u>Road Culvert</u>	<u>St. Johns County</u>	<u>Nick Perpick 904-209-0136</u>

3. Have you ever failed to complete work awarded to you? If so, where and why?

NO

4. Name three (3) municipalities for which you have performed similar roadway projects and to which you refer:

Marion County
St. Johns County
City of Flagler Beach

5. Have you personally inspected the site of the proposed Work? Describe any anticipated problems with the site and your proposed solutions.

Yes, no problems are anticipated

6. Will you Subcontract any part of this Work? If so, describe which portion(s).

Yes - signalization, striping, paving, concrete & sodding.

7. What equipment do you own that is available for the Work?

See the attached

8. What equipment will you purchase for the Work?

none

9. What equipment will you rent for the Work?

none

10. The following is given as a summary of the Financial Statement of the undersigned: (List Assets and Liabilities and use insert sheet if necessary.)

The summary will be provided upon successful award of contract

11. State the true and exact, correct, and complete name under which you do business.

Bidder is: Westwind Contracting, Inc.

END OF SECTION



EQUIPMENT LIST

EQ#	DESCRIPTION	YEAR	SERIAL NUMBER	TYPE
755	Cat 725, 25 ton	2004	AFY01303	Off road articulated dump truck
756	Cat 725, 25 ton	2005	B1L00221	Off road articulated dump truck
757	Cat 725, 25 ton	2005	B1L00222	Off road articulated dump truck
758	Cat 725, 25 ton	2005	B1L00300	Off road articulated dump truck
769	Cat 725, 25 ton	2007	B1L01121	Off road articulated dump truck
770	Cat 725, 25 ton	2007	B1L01172	Off road articulated dump truck
780	Volvo A40, 40 ton	2008	A40DV70259	Off road articulated dump truck
781	Volvo A40, 40 ton	2008	A40DV70213	Off road articulated dump truck
403	420D IT E-Stick (2004)	2004	BLN10341	Combination backhoe loader
405	420D (2006)	2006	FP25243	Combination backhoe loader
406	430D IT E-Stick (2005)	2005	BML05275	Combination backhoe loader
332	Cat D3K LGP (cab+ac+GPS)	2009	LLL00340	Bulldozer
333	Cat D3K LGP (cab+ac+GPS)	2009	LLL00535	Bulldozer
334	Cat D3K LGP (cab+ac+GPS)	2009	LLL00536	Bulldozer
335	Cat D3G LGP (cab+ac+GPS)	2005	BYR01249	Bulldozer
354	Cat D5GLGP (RAKE)	2005	RKG01019	Bulldozer
357	Cat D5G LGP (cab+ac+GPS), Rake	2006	RKG02338	Bulldozer
359	Cat D5G LGP (cab+ac+GPS), Rake	2006	RKG01414	Bulldozer
360	Cat D6K LGP (cab+ac+GPS)	2008	DHA00817	Bulldozer
361	Cat D6K LGP (cab+ac+GPS)	2008	DHA00585	Bulldozer
138	Cat 303C CR Rubber Tracks	2008	EXT02887	Rubber track Mini Excavator
139	Cat 303C CR Rubber Tracks	2006	EXT00558	Rubber track Mini Excavator
140	Cat 305C CR Rubber Tracks	2006	HWJ00695	Rubber track Mini Excavator
141	Cat M-318C wheel excavator	2005	H2D00542	Wheel Excavator
152	Komatsu PC228 Excavator	2008	41300	"Zero tail" Excavator
156	Cat 320C U with Feccon head	2006	MAC00304	Excavator with Feccon mulching head
157	Cat 321C LCR (HD aux hyd)	2006	MCF01044	"Zero tail" Excavator
161	Cat 325C L	2006	BFE01948	Excavator
162	Cat 325C L (thumb + rake + ditch bk)	2006	BFE01949	Excavator
163	Cat 325C L (thumb + rake + ditch bk)	2006	BFE02020	Excavator
164	Cat 322C L (thumb+rake)	2006	HEK01145	Excavator
165	Cat 325C L	2006	BFE01626	Excavator
166	Cat 325C L	2006	BFE02060	Excavator
7628	Cat 325D L	2008	A3R01050	Excavator
172	Cat 345C L	2006	PJW00997	Excavator
175	Cat 345C L	2008	PJW02214	Excavator
7619	Cat 324DL LR	2008	JJG00915	Long Reach Excavator 55' (ditch+sqwat. Bk)
7600	Link Belt 240x2 LR 60'	2008	J9-3991	Long Reach Excavator 60' (ditch+sqwat. Bk)
418	Cat 12M with GPS	2008	BF900182	Motor grader 14' blade
419	Cat 12M with GPS	2008	BF900178	Motor grader 14' blade
422	Cat 12H with GPS	2007	AMZ00897	Motor grader 14' blade
424	Meulin Mainliner M413XT	2008	402003	Motor grader 10' blade
435	Komatsu WA250-6 (bucket+forks)	2009	75674	Front-end loader
436	Komatsu WA320-6 (bucket, forks, cab+ac)	2009	A34222	Front-end loader
437	Komatsu WA320-6 (bucket+forks+rake)	2009	A32817	Front-end loader
438	Komatsu WA250-5 (bucket+forks)	2005	A70570	Front-end loader
439	Komatsu WA250-5 (bucket+forks)	2005	70636	Front-end loader
440	Komatsu WA250-5 (bucket+forks)	2006	A73859	Front-end loader
447	Komatsu WA250-5 (bucket, forks, citrus rake)	2006	A74073	Front-end loader
448	Komatsu WA250-5 (bucket, forks, citrus rake)	2007	A74074	Front-end loader
449	Komatsu WA250-5 (bucket+forks)	2007	A74226	Front-end loader
450	Komatsu WA250-5 (bucket+forks)	2008	A74153	Front-end loader
451	Cat 950H (bucket+forks)	2006	MTG00204	Front-end loader
452	Cat 950H (bucket+forks)	2007	MTG00313	Front-end loader
453	Cat 950H (bucket+forks)	2007	MTG00506	Front-end loader
459	Cat 297CHF cab/ac/bk/H/Cat T9B Trencher attach.	2009	GCP01539	Rubber track skid steer
461	Cat 287BHF cab/ac/bk/Cat Hyd Mowing attach	2006	ZSA03758	Rubber track skid steer
462	Cat 287BHF cab/ac/bk/Cat H55DS Hyd Hammer	2006	ZSA01581	Rubber track skid steer
463	Cat 287B bk/H/sod layer/Broom + Blade attach	2006	ZSA03009	Rubber track skid steer
464	Cat 262B Skid Steer OROPS/bucket/q-coupler	2006	PDT00537	Skid steer
469	Cat 297CHF cab/ac/bk/H/sod roller/cold planer attach.	2009	GCP1573	Rubber track skid steer

470	Cat 297CHF cab/ack/sod roller/FECON Head	2009	GCF1576	Rubber track skid steer
455	Grove RT645B Hydraulic Crane (50 ton crane)	2001	86235	55 ton rough terrain 4x4 hydraulic crane
1343	Cat CS323C	1998	1EN00201	Vibratory roller 50" drum
1344	Cat CS323C	1998	1EN00208	Vibratory roller 50" drum
1345	Cat CB214E Double Drum Roller	2005	21400436	Vibratory double drum roller
1346	Resco 915 Pneumatic Roller	2004	41883	9 wheel roller
1348	Cat CS53E	2005	DAK00306	Vibratory roller 84" drum
1349	Cat CS53E	2006	DAK00338	Vibratory roller 84" drum
1350	Cat CS53E	2006	DAK00411	Vibratory roller 84" drum
1351	Cat CS53E	2006	DAK00361	Vibratory roller 84" drum
1352	Cat CS53E	2006	DAK00362	Vibratory roller 84" drum
1353	Volvo DD29 Double Drum Roller	2009	199430	Vibratory double drum roller
1354	Ingram 12-14 Ton 3 wheel roller	1997	578348EB14	Static 3 wheel roller
471	Cat 613C II	2003	8LJ02854	Motor Scraper
410	Kubota 3130 w/ mower, box and disc	2003	38526	Tractor
412	Kubota M6200HD-F Tractor 85hp w/balwing mower	2004	58929	Tractor
7630	Challenger MT475S Tractor 100hp w/ balwing mower	2008	T189003	Tractor
7631	Challenger MT525B Tractor 95hp w/ balwing mower	2007	S129086	Tractor
7632	Challenger MT555B CVT Tractor 130hp w/ mower + disc	2008	S309054	Tractor
7633	Challenger MT555B CVT Tractor 130hp	2008	S330057	Tractor
7634	Challenger MT645B Tractor 205hp	2009	U105039	Tractor
7635	Challenger MT655B Tractor 240hp	2007	S145067	Tractor
7636	Challenger MT845B Tractor 205hp	2009	U113038	Tractor
7637	Challenger MT865B Tractor 510hp W/1Z drum chopper	2006	BDS61213	Tractor
7638	Challenger MT865B Tractor 510hp	2006	BDS61287	Tractor
481	Ford F750 2000 gal on road water truck	2007	120MZB	2000 gallons water truck
482	Ford F750 2000 gal on road water truck	2006	P993HU	2000 gallons water truck
483	GMC 2000gal on road water truck	2004	V93DXL	2000 gallons water truck
484	2000 gal 67H042-Chevy C7500	2004	516806	2000 gallons water truck
485	2000 Gal International	2005	331204	2000 gallons water truck
1360	Rosco RB48	2004	38180	Self propelled sweeper
1361	Rosco RB48	2004	40419	Self propelled sweeper
1362	Terramite TSS38	2006	21TS0231	Self propelled sweeper
1363	Lay-Mor 8HC	2003	29225	Self propelled sweeper
189	Manitowoc 4600 with 120' of boom 8CY bucket	1979	46490 (1979)	8 cy Dragline
465	Hydro Ax 721E w/ BH250-4 Mulching Head	2006	HA18727	Multipurpose 210hp tractor
488	Ditch Witch FX30 VAC Trailer, 800 gal.	2004	2Y0072	Vac Trailer
489	Ford L8000 VAC truck/1000+1500 gal tanks	1999		Vac truck
702	Kubota RTV900G-K Utility Vehicle	2006	36992	ATV
801	16' Carolina Skiff	2010	P107111	John boat with 30 hp engine
803	10' tracker aluminum boat	2010	87L910	John boat with 12 hp engine
1122	KPI FT2640 Track Jaw Crusher (2007)	2007	407180	Track mounted jaw crusher
1132	Powerscreen Chieftain 1400 (2003)	2004	6606192	Track mounted 3 deck screen
1145	Morbark 5600 Wood Hog Horizontal Grinder	2005	169-1083	Trailer mounted horizontal grinder
1150	Rex Soil Stabilizer	1997	HK1490	Soil Mixer
1151	Bomag MPH364SDM Soil Stabilizer	2006	901A23001539	Soil Mixer
1356	LeeBoy 8515 Paver	2004	42105	Asphalt Paver 15' max paving width
1376	Finn T120GN-32E HydroSeeder	2005	SD-1903	Trailer mounted hydro-seeder
1401	Vermeer D7X11 II Navigator	2008	1VRZ130Z58100814	Trailer mounted directional boring machine
1500	Gomaco GT6200 Commander II Curb Machine	2006	903300118	Track mounted curb machine
Wacker DPJ4045Y 9000 lbs plate	2005	6066145	Walk-behind backfill tamper	
Wacker DPJ4045Y 9000 lbs plate	2005	6066151	Walk-behind backfill tamper	
Wacker DPJ4045Y 9000 lbs plate	2005	6066161	Walk-behind backfill tamper	
Wacker DPJ4045Y 9000 lbs plate	2005	6066146	Walk-behind backfill tamper	
Wacker DPJ4045Y 9000 lbs plate	2005	6064658	Walk-behind backfill tamper	
Wacker WP1550A	2007	5403786	Walk-behind backfill tamper	
Wacker WP1550A	2006	5369907(490427)	Walk-behind backfill tamper	
Wacker DPJ4045Y 9000 lbs	2005	6066156	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031591	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031715	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031716	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031770	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031818	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2006	30031920	Walk-behind backfill tamper	
Dynapac LH300 plate 9000 lbs Honda eng.	2008	1652092	Walk-behind backfill tamper	
Wacker BPU3545A	2008	1690403	Walk-behind backfill tamper	
Wacker BPU3545A	2007	1529376	Walk-behind backfill tamper	
Wacker DPJ5045H plate 11000 lbs	2007	778647754	Walk-behind backfill tamper	
Wacker plate BPU3345A	2006	1458234	Walk-behind backfill tamper	
Wacker plate BPU3545A	2008	1535780	Walk-behind backfill tamper	
Wacker plate BPU5045A	2005	1180637	Walk-behind backfill tamper	

Wacker DS70 Rammer	2004	5505177	Rammer (Jumping Jack)
Wacker DS70 Rammer	2004	5505178	Rammer (Jumping Jack)
Wacker BS700	2006	5221511	Rammer (Jumping Jack)
Dynapac LT7000 GX120 11" J.Jack	2006	77100220	Rammer (Jumping Jack)
Dynapac LT7000 GX120 11" J.Jack	2006	77100230	Rammer (Jumping Jack)
Dynapac LT7000 GX120 11" J.Jack	2006	77100231	Rammer (Jumping Jack)
Wacker BS500-2	2008	5582185	Rammer (Jumping Jack)
Wacker BS600	2005	5437087	Rammer (Jumping Jack)
Wacker BS600	2005	5447104	Rammer (Jumping Jack)
Wacker BS600-2i	2007	5468016	Rammer (Jumping Jack)
Wacker BS700	2005	5256827	Rammer (Jumping Jack)
Wacker BS700	2006	5443491	Rammer (Jumping Jack)
656 6" D&D Hyd (Green)	2006	6T-301	6" Hydraulic water pump
655 6" D&D Hyd "Red"	2006	DD1162	6" Hydraulic water pump
700 6" MWI Hyd HTC006 with Diesel Power Unit 1200D	2007	4646 & 8751	6" Hydraulic water pump
709 6" Thompson HD Trash pump 6HT-DDT	2007	6HT-1849	6" Hydraulic water pump
706 6" Thompson Hydraulic, Deutz Diesel, Skid Mounted	2008	60-415 & 32HPU23	6" Hydraulic water pump
707 6" Thompson Hydraulic, JD Diesel, Trailer Mounted	2008	32HPU349	6" Hydraulic water pump
711 6" Thompson HD Trash pump model 6HT-DDS-4-2011	2009	6HT-1900	6" Hydraulic water pump
505 Peterbilt 335 Mechanics' truck with 12,000 lbs crane	2007	2NPLHD7X56M888720	Service truck
511 F750 - mechanics body with 6,000 lbs crane	2005	3FRFF75S25V120583	Service truck
514 F350 4x4 crew cab utility body	2006	1FDWW37P26EC86759	Service truck
580 F350 4x4 crew cab utility body	2007	1FTWW31P56ED05866	Service truck
599 F750 - mechanics body with 6,000 lbs crane	2007	3FRNF75F07V509293	Service truck

**SECTION 00301-C
Sub Contractors and Affiliates Form**

The following are a list of Sub Contractors or Affiliates that will be utilized in this project. Use additional sheets if necessary.

FIRM NAME	TRADE	TELEPHONE AND FAX NUMBER
P&S Paving	Paving	(386) 258-7911 (386) 258-9313
DH Striping	Striping & Signage	(407) 359-1172 ()
PAH Constructors	Signalization	(321) 253-1402 (321) 253-2308
		()
		()
		()
		()
		()
		()
		()

In the event our firm is awarded this bid, the City of Deltona will be notified of any changes made to this Sub Contractors list before and during any and all work performed during this project.

The Sub-Contractor listing Form Must Be Completed and Returned with your Submittal.

SECTION 00301-D

DRUG-FREE WORK PLACE FORM

The undersigned Bidder in accordance with Florida Statute 287.087, hereby certifies that

Westwind Contracting does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's 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. Give each employee engaged in providing the commodities or contractual services that are proposed a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify 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. Impose a sanction on, or require 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. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.


Bidder's Signature

2/22/13
Date

This Form Must Be Completed and Returned with your Submittal, if applicable

SECTION 00301-E

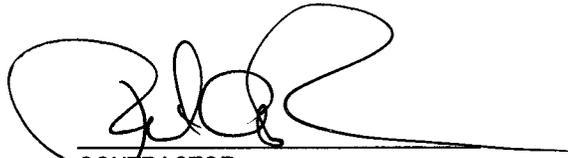
HOLD HARMLESS AND INDEMNITY AGREEMENT

Westwind Contracting agrees through the signing of this document by an authorized party or agent that it shall defend, indemnify and hold harmless the City of Deltona, and its agents, employees, and public officials from and against all suits, losses, claims, demands, judgments of every name and description arising out of or incidental to the performance of this contract or work performed thereunder, whether or not due to or caused by the negligence of the City of Deltona, its agents, employees, and public officials excluding only the sole negligence of the City of Deltona, its agents, employees, and Public Officials.

This provision shall also pertain to any claims brought against the City of Deltona, its agents, employees, and public officials by an employee of the named Contractor, any Sub-contractor, or anyone directly or indirectly employed by any of them.

The Contractor's obligation to indemnify the City of Deltona, its agents, employees and public officials under this provision shall be limited to \$1,000,000 per occurrence which the parties agree bears a reasonable commercial relationship to the contract.

The Contractor agrees to accept, and acknowledges as adequate remunerations, the consideration of \$10, which is part of the agreed bid price, the promises contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, for agreement to enter into this Hold Harmless and Indemnity Agreement.


CONTRACTOR

2/20/13
DATE

This Form Must Be Completed and Returned with your Submittal.

SECTION 00420

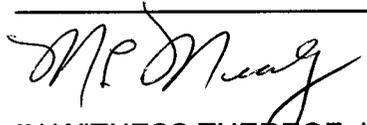
CORPORATE RESOLUTION

I, Marion Maschly, ^{CEO} ~~Secretary~~ of Westwind Contracting, a corporation organized and existing under the laws of the state of Florida, hereby certify that at a meeting of the Board of Directors of the Corporation duly called and held on 2/28, 2013 at which a quorum was present and acting throughout, the following resolutions were adopted and are now in full force and effect:

RESOLVED that the following individuals of this corporation are authorized to execute on behalf of this corporation a Bid and Agreement to City of Deltona for the construction of Roadway improvements on Fort Smith Boulevard (Section 2).

I further certify that the names of the officers of this corporation and any other persons authorized to act under this resolution and their official signatures are as follows:

NAME	OFFICE	OFFICIAL SIGNATURE
<u>Robert A Parks</u>	<u>E.V.P.</u>	
<u>Waldemar Polizzi</u>	<u>President</u>	
_____	_____	_____
_____	_____	_____



IN WITNESS THEREOF, I have hereunto subscribed my name as ^{CEO} ~~Secretary~~ and affixed the seal of the corporation this 28th day of February, 2013.

END OF SECTION

SECTION 00470

SWORN STATEMENT UNDER SECTION 287.133(3)(A), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the City of Deltona by Robert A Parks, E.V.P.
(Individual's name and title)

For Westwind Contracting
(Name of entity submitting sworn statement)

Whose business address is 3799 West Hallandale Beach Boulevard
Pembroke Park, FL 33023

And (if applicable) its Federal Employer Identification Number (FEIN) is 59-2455272
(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement)

1. I understand that a "public entity crime" as defined in Section 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 with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or a of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
1. 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 crimes, 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.
2. I understand that an "affiliate" as defined in Section 287.133(1)(a), Florida Statutes, means:

A predecessor or successor of a person convicted of a public entity crime: or an entity under the control of any natural person who is active in the management of the entity and how 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 (1) 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 thirty-six (36) months shall be considered an affiliate.
3. I understand that a "person" as defined in Section 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.

4. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (You must indicate which statement applies.)

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

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before an Administrative Law Jury of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Administrative Law Jury determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (You must attach a copy of the final order).

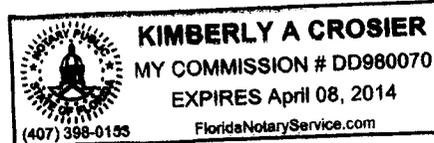
I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CITY OF DELTONA IS FOR THE CITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31, OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE CITY PRIOR TO ENTERING IN TO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

[Handwritten Signature]
SIGNATURE

2/28/13
DATE

State of Florida
County of Flagler

Personally appeared before me, the undersigned authority, Robert A Parks (name of individual signing) who, after first being sworn by me, affixed his/her signature in the space provided above on the 28 day of February, 2013.



Kimberly A Crosier
NOTARY PUBLIC

My commission expires: 4/8/14

This Form Must Be Completed and Returned with your Submittal

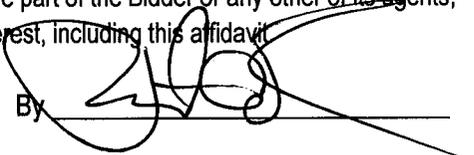
SECTION 00480
NON COLLUSION AFFIDAVIT FORM

STATE OF FLORIDA

COUNTY OF VOLUSIA

Robert A Parks, being first duly sworn deposes and says that:

1. He (it) is the Executive Vice President, of Westwind Contracting, the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

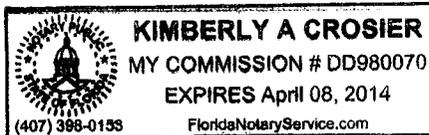
By 

Sworn and subscribed to before me this 28 day of February, 2013, in the State of Florida, County of Flagler.

Kimberly A Crosier Notary Public

My Commission expires:

4/8/14



This Form Must Be Completed and Returned with your Submittal

SECTION 00490

TRENCH SAFETY AFFIDAVIT

Trench excavations on this Project are expected to be in excess of 5 feet deep. The Occupational Safety and Health Administration excavation safety standards, 29 CFR 1926.650 Subpart P Trench Safety Standards will be in effect during the period of construction of the Project.

Bidder acknowledges that included in the Bid Price are costs for complying with the Florida Trench Safety Act (90-096, Laws of Florida) effective October 1, 1990, and hereby gives assurance that, if awarded the Contract, the Contractor or Subcontractor performing trench excavation work on the Project will comply with the applicable trench safety standards. The Bidder further identified the costs as follows:

**CITY OF DELTONA
ROADWAY IMPROVEMENTS
NORMANDY BOULEVARD – SECTION B**

<u>Trench Safety Item (description)</u>	<u>Unit Cost</u>
<u>Installation of RCP, PVC & DIP</u>	<u>1 Lump Sum</u>
<u>two thousand, five hundred dollars</u> (Cost in Words)	
	Total: \$ <u>2,500.00</u>

FAILURE TO COMPLETE THE ABOVE SHALL RESULT IN THE BID BEING DECLARED NON-RESPONSIVE.

DATE: 2/29/13
COMPANY NAME: Westwind Contracting
BY: [Signature]

END OF SECTION

SECTION 00410

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, Westwind Contracting, Inc. as Principal, and American Safety Casualty Insurance Company as Surety, are hereby held and firmly bound unto the City of Deltona, Florida as Owner in the penal sum of, (five percent 5%) of the Contract Bid) Five Percent of Amount Bid- - - for the payment of which, well and truly to be made, we hereby and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.
Signed, this 26th day of February, 2013.

The condition of the above obligation is such that whereas the Principal has submitted to City of Deltona, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for Roadway Improvements.

NOW THEREFORE,

1. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder's bid and Bidder delivers within the time required by the Bidding Documents (or an extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents, or
 - 2.2 All bids are rejected by Owner, or
 - 2.3 Owner fails to issue a notice of award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this Bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, providing that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
5. No suite or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
6. Any suite or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the part concerned.
8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.
9. This bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term "bid" as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name):

Westwind Contracting, Inc.

By:  (LS)

Title: Executive VP.

Attest: 
Signature and Title
MARION L. MASCHY
CEO/Secretary

Surety (Print Full Name):

American Safety Casualty Insurance ^{Company} (Seal)
Surety's Name and Corporate Seal

By: 
Signature (attach power of attorney)

Title: Edward T. Ward, Attorney In Fact

Attest: 
Signature and Title
Audria R. Ward, Witness
February 26, 2013
(Date)

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida. See Article 5 of the General Conditions as amended by Supplementary Conditions.

END OF SECTION



POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that American Safety Casualty Insurance Company has made, constituted and appointed, and by these presents does make, constitute and appoints EDWARD T. WARD, AUDRIA R. WARD, F. DANNY GANN, DAVID R. HOOVER

its true and lawful attorney-in-fact, for it and its name, place, and stead to execute on behalf of the said Company, as surety, bonds, undertaking and contracts of suretyship to be given to

ALL OBLIGEEES

provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of

*****FIVE MILLION***(\$5,000,000.00) DOLLARS*****

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company of the 6th day of August, 2009.

RESOLVED, that the President in conjunction with the Secretary or any Assistant Secretary may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the Company, to execute and deliver and affix the seal of the Company to bands, undertakings, recognizances, and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any power of attorney previously granted to such persons.

RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the company when: (i) when signed by the President or any Vice-President and attested and sealed (if a seal is required) by any Secretary or Assistant Secretary or (ii) when signed by the President or any Vice-President or Secretary or Assistant Secretary, and counter-signed and sealed (if a seal is required) by a duly authorized attorney-in-fact or agent; or (iii) when duly executed and sealed (if a seal is required) by one or more attorney-in-fact or agents pursuant to and within the limits of the authority evidenced by the power of attorney issued by the Company to such person or persons.

RESOLVED FURTHER, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company; and such signature and seal when so used shall have the same force and effects as though manually affixed.

IN WITNESS WHEREOF, American Safety Casualty Insurance Company has caused its official seal to be hereunto affixed, and these presents to be signed by its President and attested by its Secretary this 6th day of August, 2009

Attest:

Ambuj Jain



Joseph D. Scollo, Jr.

STATE OF GEORGIA)
)
COUNTY OF COBB)

On this 6th day of August, 2009, before me personally came Joseph D. Scollo, Jr., to me known, who, being by me duly sworn, did depose and say that he is the President of American Safety Casualty Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that is was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

JAMI BAILEY
Notary Public, Hall Co., GA
My Commission Expires Aug. 13, 2012

Jami Bailey, Notary Public

I, the undersigned, Secretary of American Safety Casualty Insurance Company, an Oklahoma corporation, DO HEREBY CERTIFY, that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore that the Resolution of the Board of Directors, set forth in the said Power of Attorney, is now in force.

Signed and sealed in the City of Atlanta, in the State of Georgia

Dated this 26 day of February, 2013



Ambuj Jain

ADDENDUM # 1
CITY OF DELTONA
BID # PW 13-05
January 30, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Until further notice:

- Questions regarding this bid shall be addressed in writing to:

- **Kate Krauss**

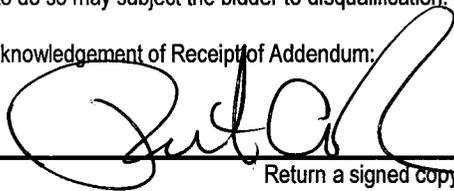
Purchasing Manager

Email: kkrauss@deltonafl.gov

Fax: 386-878-8571

- Questions will not be accepted over the phone.
- Bidders are asked to acknowledge receipt of this addendum by signing below and returning the signed addendum with their bid submittal. Failure to do so may subject the bidder to disqualification.

Vendor Acknowledgement of Receipt of Addendum:



Signature

Return a signed copy of this addendum with your bid

ADDENDUM # 2
CITY OF DELTONA
BID # PW 13-05
February 5, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is to delete the current bid forms, pages 3-6 of Section 00300, and replace them with the bid forms that are attached to this addendum. The new bid form is also being uploaded to Demandstar in Excel format for your convenience in completing it. Use only these bid forms when submitting your bid. All other pages still apply.

Failure to use the revised bid forms shall deem your bid non-responsive.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Westwind Contracting Inc.
NAME OF BUSINESS

BY: [Signature] 2/5/13
SIGNATURE/DATE

Robert A Parks, EVP
NAME & TITLE, TYPED OR PRINTED

3799 W. Hallandale Bch Blvd.
MAILING ADDRESS

Pembroke Park, FL 33023
CITY, STATE, ZIP CODE

**ADDENDUM # 3
CITY OF DELTONA
BID # PW 13-05
February 12, 2013**

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

This addendum is change the bid due date to Thursday, February 28, 2013 at 2:00 p.m. at the Water Dept. located at 255 Enterprise Road, Deltona, Florida 32725.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Westwind Contracting
NAME OF BUSINESS

BY: [Signature]
SIGNATURE/DATE

Robert A Parks, EVP
NAME & TITLE, TYPED OR PRINTED

3799 W. Hallandale Bch Blvd.
MAILING ADDRESS

Pembroke Park, FL 33023
CITY, STATE, ZIP CODE

ADDENDUM # 4
CITY OF DELTONA
BID # PW 13-05
February 18, 2013

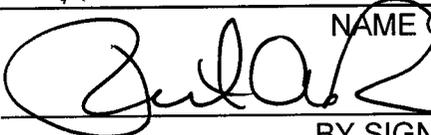
NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Tetra Tech Plans:

The Tetra Tech Water Main Improvement Plans are for bid preparation purposes.

**ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED**

Westwind Contracting, Inc.
NAME OF BUSINESS

 2.28.2013
BY SIGNATURE / DATE

Robert A. Parks, III Executive VP.
NAME & TITLE, TYPED OR PRINTED

3799 W. Hallandale Beach Blvd.
MAILING ADDRESS

Fembroke Park, FL 33023
CITY, STATE, ZIP CODE

**ADDENDUM # 5
CITY OF DELTONA
BID # PW 13-05
February 27, 2013**

NORMANDY BOULEVARD – SECTION “B” ROADWAY IMPROVEMENTS

This addendum is to announce the extension of the bid due date of this solicitation.

The bid due date has been changed. The bid due date is now Monday, March 4, 2013 at 2:00 p.m. This is to allow for an additional addendum to be posted identifying additional changes to the scope of work. It is anticipated that addendum # 6 will be posted within the next 24 hours.

All prospective bidders are hereby instructed not to contact the Engineer of Record or any member of the City of Deltona Commission, City Manager, or City of Deltona Staff members other than the noted contact person regarding this Invitation to Bid or their bid proposal at any time during the solicitation or award process. Any such contact shall be cause for rejection of your bid proposal.

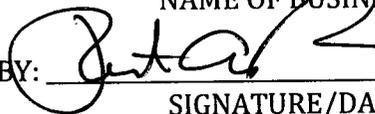
All inquiries are to be directed to the Purchasing Agent for the Public Works Division at the City of Deltona. Contact for this solicitation is: Brian Boehs, Purchasing Agent. Email address is bboehs@deltonafl.gov. Phone is 386-878-8955.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED.

RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Westwind Contracting, Inc.

NAME OF BUSINESS

BY:  2-27-2013

SIGNATURE/DATE

Robert A. Parks, III Executive VP.

NAME & TITLE, TYPED OR PRINTED

3799 W. Hallandale Beach Blvd.

MAILING ADDRESS

Pembroke Park, Florida 33023

CITY, STATE, ZIP CODE

ADDENDUM #6
CITY OF DELTONA
BID #PW 13-05
February 27, 2013

NORMANDY SECTION B ROAD WIDENING/UTILITY RELOCATE

Revised Drawings: Tetra Tech Plans

Tetra Tech Drawing G002 –
Please insert the following notes:

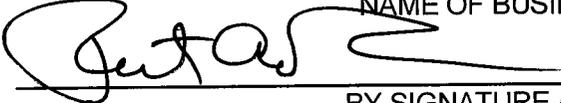
General Notes for Work Conducted within Volusia County R/W:

1. Driving and/or Staging of construction vehicles is not permitted on any sidewalks in the Right-Of-Way. Any damage to sidewalks will be repaired and/or replaced in like kind by the Contractor.
2. Any road, lane or sidewalk closure requires review and approval in advance and a seven (7) day minimum notice to Volusia County Traffic Operations (386-239-6535).
3. All existing sidewalks within County Rights of Way shall remain open or provision of a temporary walkway shall be provided in accordance with version 2010 of Florida Department of Transportation Standard Index #660 "Mid Block Closure with Temporary Walkway" unless otherwise approved by the County Traffic Engineer. Please Note that Index #660 must be shown on the use permit plans.
4. No trench or excavation shall be left open or unattached overnight, unless the excavations within the clear zone of the roadway meet the drop off criteria of the 2010 Florida Department of Transportation Design Standards (Index 600) "Of Properly Barricaded and Secured Excavations", including all equipment and materials.
5. All disturbed areas within the County Right of Way shall be sodded. Seed and Mulch is not acceptable.

Tetra Tech Drawing C503 –
Detail 1 and Detail 2 have been revised.

ALL OTHER SPECIFICATIONS AND CONDITIONS REMAIN UNCHANGED
RECEIPT OF THIS ADDENDUM IS HEREBY ACKNOWLEDGED

Westwind Contracting, Inc.
NAME OF BUSINESS

 2.27.2013
BY SIGNATURE / DATE

Robert A. Parks, III Executive VP.
NAME & TITLE, TYPED OR PRINTED

3799 W. Hallandale Beach Blvd.
MAILING ADDRESS

Pembroke Park, Florida 33023
CITY, STATE, ZIP CODE