



MANATEE COUNTY

August 20, 2012

All Interested Bidders:

SUBJECT: Invitation for Bid #12-1938-OV
Erie Road @69th Street East, Intersection Improvements
Parrish (Manatee County), FL
Project No.: 380-6048460

ADDENDUM #2

Bidders are hereby notified that this Addendum shall be acknowledged on page 00300-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

The stated deadline of August 9, 2012 to submit all inquiries concerning interpretation, clarification or additional information pertaining to this bid has lapsed. This deadline has been established to maintain fair treatment for all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

Bidders Note:

Engineer's Clarification and Responses to Bidders questions received at the Information Conference held on July 31, 2012 and Contractors emails through August 9, 2012 provided by Sunny Fu, P.E., Project Engineer II.

Engineer's Clarification

1. Tree survey is not available. The Contractor is encouraged to visit the site to get familiar with the existing site condition before the bid. The trees within the construction limits shall be removed as necessary, minimum to construct the road, drainage facilities and meet the roadside clear zone (10' for collectors). The trees/bushes within 120' wide railroad easement shall be completely removed. All trees or bushes removal shall be paid under Clearing & Grubbing. No separate payment will be made for tree removal.
2. The existing fence, gate and concrete monument sign on the Waste Treatment Plan Site shall be removed as depicted on the revised plans. The payment for removal shall be under Pay Item 7, Clearing & Grubbing. Pay item 37 and 47 have been removed from quantity sheet. Please refer to attached Sheet #5, #19 and #20 for revisions and limits of removal.

Financial Management Department – Purchasing Division
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Phone: 941-749-3055 – Fax: 941-749-3034

LARRY BUSTLE * MICHAEL GALLEN * JOHN R. CHAPPIE * ROBIN DISABATINO * DONNA G. HAYES * CAROL WHITMORE * JOE McCLASH
District 1 District 2 District 3 District 4 District 5 District 6 District 7

Engineer's Clarification (Continued)

3. All drainage boxes shall have a minimum 6" wall thickness. FDOT box Alternative A with 4" thickness wall is not acceptable to this project.
4. Sheet #3, #5, #7, #8, #9, #10, #11, #19, #20, #31, #36, and #64 have been updated. **Please refer to the PDF which is made a part of this Addendum.**
5. Special Provisions page #17 and #18 have been updated. Please refer to the attachment.

Questions raised at the Information Conference on July 31, 2012

Question 1: How does Manatee County calculate contract time? Will Christmas Holidays and Rain days be included in the contract time? What about 30 day asphalt cure time?

Response: The contract time is counted by calendar days. Christmas Holidays and Rain days shall be excluded from the total contract time. The 30 (thirty) day asphalt cure time shall also be excluded from the total contract time.

Question 2: Is Laser Profile required for newly installed stormwater pipes?

Response: Yes. Both DVD video and Laser Profile are required for newly installed stormwater pipe when the pipe size is 48 inches or less. The test procedure and final report shall follow FDOT Specification 2010, Section 430.

Question 3: Will the County require the contractor to furnish an additional 2 (two) year Warranty Bond to make the total Warranty 3 (three) years?

Response: IFB Section 00030, C.07 Warranty and Guarantee Provisions will stand as is for this project.

Question 4: Has Manatee County obtained the permit for the construction of storm water structures in the railroad right-of-way?

Response: There is no formal permit required for this project; however FPL has granted the easements to the County for all construction activities necessary in their railroad right-of-way.

Question 5: Can Railroad Contractor provide their traffic control plan to facilitate the coordination between the railroad crossing and roadway construction?

Response: This request is not applicable. The railroad crossing tub will be installed prior to the construction of the roadway. The contractor shall tie the proposed road to the new tub. The contractor shall send a signed & sealed traffic control plan to the County prior to construction.

Question 6: Will the test requirement follow FDOT Specifications?

Response: The test procedure will follow FDOT Specifications 2010. See Specifications for Crushed Concrete Base which is made a part of Addendum 2. The Contractor will be responsible for the cost of re-test if the initial test fails.

Question 7: Bid Item 16, what material is excluded from optional base group 9? Will Crushed Concrete be allowed for this project?

Response: Type B 12.5 is excluded for this project. The FDOT Certified Crushed Concrete Base material would be an acceptable alternative provided it meets the criteria for Graded Aggregate Base in FDOT Specifications 2007(rev 8-8-07) (1-08). See Specifications for Crushed Concrete Base which is made a part of Addendum 2.

Question 8: Will Manatee County adopt layer coefficient of 0.18 instead of 0.15 to calculate the thickness for crushed concrete under optional base group 9?

Response: FDOT certified Crushed Concrete with LBR minimum 150 will be considered to have an equivalent 0.18 layer coefficient for this project. Additional tests for both plant and on-site will be required if choosing this material. The contractor will be responsible for the ten initial costs and any re-tests when needed. The test and rejection procedure is made a part of Addendum 2.

Question 9: Plan sheet 30 of 75 shows a 36-Inch steel casing to be installed beneath the railroad tracks by jacking and boring, I do not see a permit for this jack and bore in the specification book, can the permit be provided?

Response: FPL rail road currently does not require a permit for such construction. The steel casing under railroad shall follow FDOT Specifications 2010.

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Question 10: Special Provisions of the specifications, page 13, par. POST-CONSTRUCTION STORM PIPE TESTING, this paragraph requires the contractor to televise the new storm sewer pipe. Will the contractor also be required to laser profile the new storm sewer pipe? Please clarify.

Response: See response for question 2 in Page 1.

Question 11: The specifications require a 30 (thirty) day asphalt cure time before the application of the thermoplastic striping, is this cure time considered to be included in the number of days we are bidding this job by?

Response: The 30 (thirty) day asphalt cure time will not be considered into the total contract time.

Question 12: Please revisit the pipe quantities for the 12"x18" ERCP and the 12" A-2000. I am coming up short of your quantity on the 12"x18" and more on the 12" A-2000.

Response: The quantity for 12" x 18" RCP is 542 LF, and for 12" A-2000 is 112 LF. Sheet # 5 has been updated to reflect this correction.

Question 13: Specifications section 00030, page 00030-8, par. C.20, RAILROAD INSURANCE, in order for us to get a price for the railroad protective insurance policy we will need to know the following:

A. What is the speed of the trains?

Response: 10 mph

B. Are the trains passenger or freight?

Response: Trains across this section of track are primarily freight, but occasional passenger excursions by Florida Railroad Museum.

C. Are the trains carrying hazardous materials?

Response: It is possible, but unlikely that a train will carry hazardous material.

D. How many trains per day?

Response: There is not an established train schedule. Trains are scheduled as needed and are infrequent. Average of one per month or less across this section of the railroad.

E. What are the costs for a railroad flagman?

Response: FPL will not require a flagman for this project because track will be taken out of service while vehicle crossing is replaced and drainage culvert is installed. Any other work to be done within the railroad r/w after the track is returned to service can be done without a flagman because train movements are rare, scheduled in advance, limited to 10 mph, and the subject track section has lengthy site distances in both directions to facilitate safety.

Question 14: Please reference the bid form with regard to Line No. 35, Item No. 0530-1, Rip-Rap, Sand-Cement, what type sack is we to provide, Scrim or Paper? Please clarify.

Response: Materials for sand-cement shall meet FDOT Specifications 2010, Section 530. Scrim reinforced paper is a FDOT approved material, which is acceptable to this project.

Question 15: Reference plan sheet 64, at station 102+26, the call out for a 16"x4" Tapping Sleeve and Valve for the force main service stub, the drawing shows the force main being tapped as 20-Inch, please clarify.

Response: The Tapping Sleeve should be 20" x 4" for the existing 20" forcemain. Sheet #64 has been updated for this correction.

Question 16: With regard to the mitered end sections, are we to transition from the A-2000 PVC pipe, with a concrete collar for dissimilar types of pipe as per F.D.O.T. Index 280, page 1 of 3, or do we construct the mitered end with the A-2000 PVC pipe?

Response: A-2000 PVC can be tied directly to the mitered end section without concrete collar.

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Question 17: Reference bid form Line No. 37, Item No. 0550-MC, Fence Removal and Relocation, currently the unit of measure for this item is Lump Sum and according to a note on plan sheet 19, we are to coordinate the relocation of the fence with the utility department. This leaves the contractor at the mercy of the utility department and we are unable to quantify what efforts, survey layout, and additional fence material may be needed for this scope of work. In order to adequately bid this item we need to know where we are moving it to and would prefer the unit of measure be by the linear foot opposed to lump sum. Please review this item.

Response: The limit of fence removal has been depicted on sheet #19 and #20. Replacement of the removed fence is not needed as per Utility Department. The payment of fence and concrete sign removal shall be under Clearing & Grubbing. Pay item 37 and 47 have been deleted from sheet # 5.

Question 18: Regarding utility bid items number MC-U-1, MC-U-2, and MC-U-3, what type of pipe material are we to bid on for each of these? Please clarify.

Response: All pipe material shall be ductile iron, following utility specifications (Page 4 of 28) attached in bid documents

Question 19: Manatee County has allowed crushed concrete base material to be used at the same thickness as limerock, shell or shellrock base materials and request that this project concede to the precedence the County has established. Please clarify.

Response: Crushed Concrete Base with LBR minimum 150 is allowed to be used at same thickness as Limerock, Shell or Shellrock Base under optional base group 9 for this project only. Please refer to the attached specifications.

Question 20: Plan sheet 36 of 75, PIPELINE CONTENT DETAILS, CARRIER/CASING PIPE DETAILS, from this table we are to furnish a 36-Inch by 0.50" thick wall steel casing conforming to ASTM A-139, Grade 'B' and be "SEAMLESS", I have been informed by our supplier that "SEAMLESS" steel pipe is only available up to 30-Inch diameter and is an ASTM A-106 not A-139. The ASTM A-139 Grade 'B' steel casing pipe will have a straight seam, will this be acceptable? Please clarify.

Response: The 36" Steel Casing Pipe shall have a minimum thickness of 0.532", straight seam and comply with ASTM A-139. The outside diameter should be 37.064". Please refer to Sheet #36 for correction.

Question 21: Regarding the existing asphalt and base, please advise as to the asphalt thickness and the thickness and type of the existing base.

Response: The thickness and type of existing asphalt and base are unknown. The Contractor is encouraged to visit the site and obtain his own data with any related permit in hand.

Question 22: Will burning of any clearing debris be allowed on the county property?

Response: The County will not have objection to this, provided the Contractor obtained an appropriate permit for this activity.

Question 23: Will temporary road closures be allowed with detours as needed to allow for the reconstruction of the existing roadways at the connections shown?

Response: No road closure will be allowed during the construction. Traffic shall be maintained in all circumstances.

Question 24: Please clarify the base material that will be required/acceptable. Will locally obtained shell base be acceptable as long as it meets the LBR requirements?

Response: Local Shell Base material is acceptable provided it meets FDOT Specification 2010.

Question 25: As long as the material meets the specification but isn't DOT certified, is it an acceptable material to use? IE: Crushed Concrete.

Response: Only FDOT Certified Crushed Concrete pile is acceptable for this project. Please refer to Addendum 2 for the Specifications for Crushed Concrete Base.

Question 26: On the bid schedule of pay items #36: 0530-MC 1-2" River Stone w/Mirafi 140N Filber Fabric. What does the O with a line thru it after the 1-2" represent?

Response: Φ represents the diameter of the river stone, which is 1" to 2" (one to two inch).

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BIDDERS NOTE: Attachments Include:

Specifications for Crushed Concrete Base	(6 Total Pages)
Special Provisions, revised pages 17 and 18	(2 Total Pages)
Revised Bid Forms (Bid A and Bid B) pages 00300-2 through and including 00300-9	(8 Total Pages)
Engineer's Estimate	(1 Total Page)

Bidders Note: The attached Bid Form, Addendum 2 supersedes the originally issued Bid Form for this solicitation and must be used in your submission of your bid. The Bid Form must be executed by an authorized signatory of the company who has legal authority to make and bind the offer.

Bidders Note: Sheet #3, #5, #8, #9, #11, #19, #20, #31, #36, and #64 has been uploaded via PDF and are made a part of this Addendum 2.


Bidders Note: Sheet #5 of 75 pertaining to the revised Bid Items references Addendum 1. This sheet #5 should reference Addendum 2.

If you have submitted a bid prior to receiving this addendum, you may request in writing that your original, sealed bid be returned to your firm. All sealed bids received will be opened on the date stated.

END OF ADDENDUM #2

Bids will be received at the **Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205** until **2:00 P.M. on September 5, 2012.**

Sincerely,


Melissa M. Wendel, CPPO,
Purchasing Official
Ov (17 Total Pages attached)

SPECIFICATIONS OF CRUSHED CONCRETE BASE
ERIE ROAD AT 69TH STREET EAST
Addendum 2, 8/20/2012

1) Item # 1 - Regarding structural number on Crushed Concrete Base:

Manatee County to approve SN 0.18 if following criteria is met and maintained:

- A) Limerock Bearing Ratio value of 150 or greater 10" compacted thickness in place.
- B) Gradation conforms to FDOT Specifications2007 (rev 8-07).
- C) Deleterious materials conform to FDOT Specifications2007 (rev 8-07).
- D) Delivery ticket indicates FDOT approved source, actual lot allocated to a particular project.
- E) Piles or lots to be inspected by Manatee County representative prior to acceptance.

2) Item # 2 - Regarding Limerock Bearing Ratio value:

- A) No Limerock Bearing Ratio value less than 150, with no under tolerance.

3) Item # 3 - Regarding source approval:

- A) FDOT approved source, allocated lot sufficient to serve projects needs, delivery tickets stating FDOT approved source, project name, FDOT preapproved lot or pile number.

4) Item # 4 - Regarding deleterious materials:

- A) Deleterious material content in addition to the FDOT Specifications2007 (rev 8-07) should state that no construction debris such as Styrofoam insulation, telephone wire, lumber, shingles, aluminum window or door frames etc., or household trash ie: bottles, cans, paper goods etc. is acceptable.

5) Item # 5 - Material source inspection:

- A) Prior to acceptance of base product, a representative of Manatee County will visit the Producer's location and obtain a sample of the proposed base for the specified project. In addition to sampling, the pile will be visually inspected for deleterious materials, substantial segregation, or any other undesirable characteristics. The pile shall have a traceable identification by pile number or lot number and an accurate quality assessment.

6) Item # 6 - Import and placement of base product:

- A) During import of base product, a county inspector or duly designated representative of the county will be onsite monitoring incoming loads, making visual assessments of the product and checking load tickets for verification of materials.

7) Item # 7 - Import and placement of base product:

- A) After spreading out, prior to compacting, samples of the base product will be obtained by Manatee County approved testing lab, every 500 LF staggering right, left, center of the roadway for Limerock Bearing Ratio, gradation and deleterious material testing.

8) Item # 8 - Rejection of materials:

- A) Material not meeting above requirements will subject to rejection and be removed from the project site. Any three (3) concurrent rejections will require immediate shut down of imported material and require review and remedies prior to restart.

9) Item # 9 - Compaction of material:

- A) In place material should be a minimum of 10" in compacted thickness and achieve 98% of AASHTO T-180 compaction.

GRADED AGGREGATE BASE.

(REV 8-8-07) (1-08)

SECTION 204 (Pages 206-208) is deleted and the following substituted:

SECTION 204 GRADED AGGREGATE BASE

204-1 Description.

Construct a base course composed of graded aggregate.

204-2 Materials.

Use graded aggregate material, produced from Department approved sources, which yields a satisfactory mixture meeting the requirements of these Specifications after it has been crushed and processed as a part of the mining or reclamation operations.

204-2.1: Mined Materials: Use material of uniform quality throughout that does not contain vegetable matter, shale, or lumps of clay balls in sufficient quantity as to be detrimental to the proper bonding, finishing, or strength of the base. Material shall have a Limerock Bearing Ratio value of not less than 100. Use material retained on the No. 10 sieve composed of aggregate meeting the following requirements:

Soundness Loss, Sodium, Sulfate: AASHTO T 104 15%

Percent Wear: AASHTO T 96 (Grading A)

Group 1 Aggregates 45%

Group 2 Aggregates 65%

Group 1: This group of aggregates is composed of limestone, marble, or dolomite.

Group 2: This group of aggregates is composed of granite, gneiss, or quartzite.

204-2.1.1 Gradation: Meet the following gradation requirements:

Sieve Size	Percent by Weight Passing
2 inch	100
1 1/2 inch	95 to 100
3/4 inch	65 to 90
3/8 inch	45 to 75
No. 4	35 to 60
No. 10	25 to 45
No. 50	5 to 25
No. 200	0 to 10

204-2.1.2 Liquid Limits and Plasticity Requirements: For Group 1 aggregates, ensure that the fraction passing the No. 40 sieve has a Plasticity Index (AASHTO T 90) of not more than 4.0 and a Liquid Limit (AASHTO T 89) of not more than 25, and contains not more than 67% of its weight passing the No. 200 sieve.

For Group 2 aggregates, ensure that the material passing the No. 10 sieve has a sand equivalent (AASHTO T 176) value of not less than 28.

The Contractor may use graded aggregate of either Group 1 or Group 2, but only use one group on any Contract. (Graded aggregate may be referred to hereinafter as “aggregate”.)

204-2.2 Reclaimed Concrete Aggregate Base Materials: Use reclaimed concrete aggregate base that meets the requirements of this Section after crushing and processing, that was produced from a source approved by the Department under Rule 14-103, Florida Administrative Code. The reclaimed concrete aggregate base supplier shall have Department of Environmental Protection (DEP) permit requirements section 62-701.730 or be qualified as a clean debris source under DEP rules. The reclaimed concrete aggregate base shall consist of crushed concrete material derived from the crushing of hard Portland cement concrete.

204-2.2.1 Gradation: Meet the following gradation requirements:

Sieve Size	Percent by Weight Passing
2 inch	100
3/4 inch	65 to 95
3/8 inch	40 to 85
No. 4	25 to 65
No. 10	20 to 50
No. 50	5 to 25
No. 200	0 to 10

204-2.2.2 Plasticity: Reclaimed concrete aggregate base shall not contain plastic soils such that the minus 0.425 mm (No. 40) sieve material shall be non-plastic.

204-2.2.3 Limerock Bearing Ratio: Reclaimed concrete aggregate base shall have a minimum limerock bearing ratio (LBR) of 120.

204-2.2.4 Deleterious Substances: Reclaimed concrete aggregate base shall be free of all materials that fall under the category of solid waste or hazardous materials as defined by the state or local jurisdiction. Reclaimed concrete aggregate base shall meet all Department of Environmental Protection permit requirements which pertain to construction, demolition and recycling of these materials. Reclaimed concrete aggregate base shall be substantially free from other deleterious materials which are not classified as solid waste or hazardous materials. Reclaimed concrete aggregate base shall be asbestos free. The following limits shall not be exceeded:

Bituminous Concrete	1% by weight
Bricks	1% by weight
Wood and other organic substances.....	0.1% by weight
Heavy Metals (except Lead)	0.1% by weight
Lead.....	5 parts per million
Reinforcing Steel and Welded Wire Fabric	0.1% by weight
Plaster and gypsum board	0.1% by weight

204-3 Equipment.

Provide equipment meeting the requirements of 200-3.

204-4 Transporting Aggregate.

Transport aggregate as specified in 200-4.

204-5 Spreading Aggregate.

Spread aggregate as specified in 200-5.

204-6 Compacting and Finishing Base.

204-6.1 General: Meet the requirements of 200-7.1 with density requirements of 204-6.3.

204-6.1.1 Single-Course Base: Construct as specified in 200-6.1.1.

204-6.1.2 Multiple-Course Base: Construct as specified in 200-6.1.2.

204-6.2 Moisture Content: Meet the requirements of 200-6.2.

204-6.3 Density Requirements: Meet the requirements of 200-7.1, except after attaining the proper moisture conditions, uniformly compact the material to a density of not less than 100% of the maximum density as determined by FM 1-T 180. Ensure that the minimum density that will be acceptable at any location outside the traveled roadway (such as intersections, crossovers, turnouts, etc.) is 98% of the maximum density.

204-6.4 Correction of Defects: Meet the requirements of 200-6.4.

204-6.5 Dust Abatement: Minimize the dispersion of dust from the base material during construction and maintenance operations by applying water or other dust control materials.

204-7 Testing Surface.

Test the surface in accordance with the requirements of 200-6.

204-8 Priming and Maintaining.

Meet the requirements of 200-8.

204-9 Thickness Requirements.

Meet the requirements of 200-6.3.

204-10 Calculations for Average Thickness of Base.

Calculations for determining the average thickness of base will be made in accordance with 285-7.

204-11 Method of Measurement.

204-11.1 General: The quantity to be paid for will be the area, in square yards, completed and accepted.

204-11.2 Authorized Normal Thickness Base: The surface area of authorized normal thickness base will be calculated as specified in 9-1.3, omitting any areas not allowed for payment under the provisions of 204-9 and omitting areas which are to be included for payment under 204-11.3. The area for payment, of authorized normal thickness base, will be the surface area determined as provided above, adjusted by adding or deducting, as appropriate, the area of base represented by the difference between the calculated average thickness, determined as provided in 204-10, and the specified normal thickness, converted to equivalent square yards of normal thickness base.

204-11.3 Authorized Variable Thickness Base: As specified in 200-10.3.

204-12 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including dust abatement, correcting all defective surface and deficient thickness, removing cracks and checks and the additional aggregate required for such crack elimination.

Payment will be made under:

Item No. 285- 7- Optional Base - per square yard.

Special Provisions
Revised Pages 17 and 18
Addendum 2

Southwest Florida Water Management District Stormwater Management and Discharge permits or exemptions, if any, and/or a Department of Environmental Protection Dredge and Fill permit, if any, required for this project have been obtained by the Owner. The Contractor shall comply with the stipulations of the Permits or Exemptions as stated herein.

The Contractor shall allow periodic inspection of the work by authorized representatives of the Department of Environmental Protection, the Southwest Florida Water Management District, as well as other duly authorized law enforcement officers of the State.

CRUSHED CONCRETE BASE

Crushed Concrete Base shall follow FDOT Standard Specifications 2007 (rev 8-07) except that the Lime Rock Bearing Ratio (LBR) shall be minimum 150. The layer coefficient of 0.18 with LBR minimum 150 is allowed to calculate the base thickness.

Only FDOT certified piles are acceptable to this project. The producing process certified by FDOT without the actual pile certified is not considered solid enough for the acceptance of the material. The contract shall send the engineer the deliver tickets with FDOT certified pile number, pile location, project name and manufactory contact information shown.

Additional tests and pile inspections will be required for the quality control and the contractor will be responsible for the cost of the initial ten tests and any re-tests when needed. The material will be rejected by the County if the initial test fails. The rejected material shall be completely removed from the project site.

CLARIFICATION OF SPECIFIC LINE ITEMS

Clarification of the County's expectations of work to be performed as it relates to specific line items and/or item No. listed on the Bid Form is included in the FDOT Basis of Estimate Manual version 2010. Where such item number is not available, the description shows herein will prevail.

Line item #3, Permanent Type III Barricade shall have Road Closed Sign mounted, and installed where the old 69th St E terminates, outside of the railroad right-of-way. All barricade stripes shall be retro-reflective. The Contractor shall submit shop drawing to the engineer of record for the approval before installation.

Line item #11, Special Excavation& Backfill shall include the removal of both the existing base and asphalt. After the excavation, scarify the sub-base, backfill with permeable material, match existing ground and hydroseed all disturbed area.

Line item #16, Optional Base Group 9 shall not include Type B-12.5 base. Additional tests (including LBR test, Quality test and Sieve Analysis) will be required for crushed concrete base material, meeting *FDOT Standard Specifications Road and Bridge Construction 2007(revised 08)*.

Line item #17, 2" Type S-1 Asphalt Concrete, shall follow *FDOT Standard Specifications Road and Bridge Construction 2000*, section 331.

Line item #18, 1" Type S-III Asphalt Concrete, shall follow *FDOT Standard Specifications Road and Bridge Construction* 2000, section 337.

Line item #26, 27 and #28, Pipe Culvert A2000, the Polyvinyl Chloride (PVC) storm sewer/drain pipe and fittings shall be manufactured and tested in accordance with ASTM F949. The structural design of thermoplastic pipes shall be in accordance with AASHTO Section 12 titled: "Buried structures and Tunnel Liners." To ensure long-term design strength properties, PVC pipe shall be manufactured from 12454 cell class material per ASTM D1784. Pipe and fittings shall have a minimum pipe stiffness of 46 lbs./in./in., when tested in accordance with ASTM D2412. Joints shall be an integral bell-gasketed joint. When the joint is assembled, it shall prevent misalignment of adjacent pipes and form either a soil tight joint (2 psi hydrostatic test per AASHTO Standard Specification for Highway Bridges, Section 26.4.2.4) or a watertight joint (10.8 psi test per ASTM D3212 titled: "Standard Specification for Joints for Drain and Sewer Plastic Pipes using Flexible Elastomeric Seals) as required. The PVC Pipe covered in this section shall provide a Manning' s " n" value of .009. Thermoplastic pipe and fittings shall be installed in strict accordance with ASTM D2321 or AASHTO Section 30.

Line item #36, 1-2" River Stone w/Mirafi 140 N filter fabric, the material shall meet FDOT specification 2010, section 901, coarse aggregate. The payment shall include materials and all work necessary for installation.

~~Line item #37, Fence Removal and Relocation, the Contractor shall remove and reinstall the Chain Link Fence before the construction. The Contractor shall coordinate with Manatee County Utility Department for the new location of the fence.~~

~~Line item #47, Utility Department Sign Relocation, the Contractor shall coordinate with Manatee County Utility Department for the new location of the sign and the key box.~~

MATERIAL TESTING TABLE

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENTS VERTICAL	TEST FREQUENCY HORIZONTAL
UTILITY TRENCH BACKFILL	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	
SUBGRADE UNCLEAR NEW CURB	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	
LIMEROCK/ SHELL BASE	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	

BID FORM / BID "A" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "A" / Based on a Completion Time of 160 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M		
					UNIT PRICE	EXTENDED PRICE
1.	0101-1	Mobilization	1	LS	\$	\$
2.	0102-1	Maintenance of Traffic	1	LS	\$	\$
		SUBTOTAL MOBILIZATION AND MOT:				\$
3.	0102-74-MC	Barricade, Permanent, Type III	3	EA	\$	\$
4.	0104-10-3	Sediment Barrier	8,599	LF	\$	\$
5.	0104-11	Floating Turbidity Barrier	50	LF	\$	\$
6.	0104-15	Soil Tracking Prevention Device	1	EA	\$	\$
7.	0110-1-1	Clearing & Grubbing, Including Asphalt Removal	11	AC	\$	\$
8.	0110-4	Removal of Existing Concrete Pavement	100	SY	\$	\$
9.	0110-7-1	Mailbox (F & I) Single	4	EA	\$	\$
10.	0110-MC	Mailbox, Relocate	1	EA	\$	\$
11.	0120-1-MC	Special Excavation Includes Base Removal of Existing Road, Scarify Existing Sub-base, Recountour and Hydroseed all Disturbed Areas, Include Fill	1	LS	\$	\$
12.	0120-1	Regular Excavation	13,034	CY	\$	\$
13.	0120-4	Subsoil Excavation	100	CY	\$	\$
14.	0120-6	Embankment (Regular)	3,327	CY	\$	\$

BIDDER:_____

AUTHORIZED SIGNATURE:_____

00300-2

BID "A"

ADD. #2 (8.20.2012)

BID FORM / BID "A" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "A" / Based on a Completion Time of 160 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M		
					UNIT PRICE	EXTENDED PRICE
15.	0160-4	12" Stabilized Sub-base (Type B)	14,052	SY	\$	\$
16.	0285-709	Optional Base Group 9. Type B 12.5 EXCLUDED For Crushed Concrete Under Graded Aggregate Base Option, FDOT 2007 SPEC / REV '08 SHALL BE USED	13,264	SY	\$	\$
17.	0334-MC	2" Type S-I Asphalt Concrete	1,409	TN	\$	\$
18.	0337-MC	1" Type S-III Asphalt Concrete	702	TN	\$	\$
19.	0350-2-1	Cement Concrete Pavement Reinforced, 6"	725	SY	\$	\$
20.	0400-2-12	Concrete Class II, Trench Slab	10	CY	\$	\$
*21.	0425-2-41	Manhole (P-7) (<10') (Addendum #2)	1	EA	\$	\$
*21A.	0425-2-71	Manhole (J-7) (<10') (Addendum #2)	1	EA	\$	\$
22.	0425-11	Drainage Structure - Modify Existing	1	EA	\$	\$
23.	0425-1-529	Inlets (Ditch Bottom Type C) (Modify)	2	EA	\$	\$
24.	0425-1-549	Inlets (Ditch Bottom Type D) (Modify)	1	EA	\$	\$
25.	0425-1-559	Inlets (Ditch Bottom Type E) (Modify)	2	EA	\$	\$
*26	0430-174-112	Pipe Culvert A2000 12" SD (Addendum #2)	112	LF	\$	\$
27.	0430-175-118	Pipe Culvert A2000 18" CD	285	LF	\$	\$
*28	0430-175-124	Pipe Culvert A2000 24" CD (Addendum #2)	664	LF	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

00300-3
 BID "A"
 ADD. #2 (8.20.2012)

BID FORM / BID "A" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "A" / Based on a Completion Time of 160 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M	UNIT PRICE	EXTENDED PRICE
*29	0430-175-215	Pipe Culvert 12" x 18" CD RCP) (Addendum #2)	542	LF	\$	\$
30.	0430-982-125	MES (Round) (18") (CD)	2	EA	\$	\$
31.	0430-982-623	MES (Elliptical) (12"x18") (CD)	14	EA	\$	\$
32.	0430-984-121	MES (Round) (12") (SD)	6	EA	\$	\$
33.	0430-984-129	MES (Round) (24") (SD)	1	EA	\$	\$
34.	0522-1	Sidewalk Concrete 4" Thick	310	SY	\$	\$
35.	0530-1	Rip-Rap, Sand-Cement	11	CY	\$	\$
36.	0530-MC	1-2"Ø River Stone w/ Mirafi 140N Filter Fabric	10	CY	\$	\$
*37	0550-MC	DELETE (Addendum#2)				
38.	0556-1-6	Jack and Bore, Casing Diameter 36"	110	LF	\$	\$
39.	0570-1-2	Sodding (Performance Turf)	12,000	SY	\$	\$
		SUBTOTAL ROADWAY:				\$
40.	MC-U-1	Water Service	1	EA		\$
41.	MC-U-2	Reuse Service	1	EA	\$	\$
42.	MC-U-3	Forcemain Service	1	EA	\$	\$
43.	MC-U-4	Hydrant Assembly Including 24" x 6" Tapping Sleeve	1	EA	\$	\$
43a	MC-U-5	Adjust Valve	1	EA	\$	\$
		SUBTOTAL UTILITY:				\$

BIDDER:_____

AUTHORIZED SIGNATURE:_____

00300-4

BID "A"

ADD. #2 (8.20.2012)

BID FORM / BID "A" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "A" / Based on a Completion Time of 160 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M	UNIT PRICE	EXTENDED PRICE
44.	0700-20-11	Single Post Sign, F&I, Less than 12 SF	17	EA	\$	\$
45.	0700-20-40	Single Post Sign, Relocate	1	EA	\$	\$
46.	0700-20-60	Single Post Sign, Remove	19	EA	\$	\$
*47	0700-MC	DELETE (Addendum#2)				
48.	0706-3	Retro-Reflective Pavement Markers, All Colors	284	EA	\$	\$
49.	0711-11-111	Thermoplastic, Standard, White, Solid, 6"	7,634	LF	\$	\$
50.	0711-11-123	Thermoplastic, Standard, White, Solid, 12"(Crosswalk)	180	LF	\$	\$
51.	0711-11-125	Thermoplastic, Standard, White, Solid, 24"(Stop Bar)	144	LF	\$	\$
52.	0711-11-160	Thermoplastic, Standard, White, Message (R/R Crossing)	3	EA	\$	\$
53.	0711-11-170	Thermoplastic, Standard, White, Directional Arrow	14	EA	\$	\$
54.	0711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	7,657	LF	\$	\$
55.	0711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	308	LF	\$	\$
		SUBTOTAL SIGNING AND STRIPING				\$
		SUBTOTAL BID PRICE:				\$
		DISCRETIONARY WORK:				\$86,000.00
TOTAL BID "A" Based on a Completion Time of 160 Calendar Day:						\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

00300-5
 BID "A"
 ADD. #2 (8.20.2012)

BID FORM / BID "B" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "B" / Based on a Completion Time of 200 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M		
					UNIT PRICE	EXTENDED PRICE
1.	0101-1	Mobilization	1	LS	\$	\$
2.	0102-1	Maintenance of Traffic	1	LS	\$	\$
		SUBTOTAL MOBILIZATION AND MOT:				\$
3.	0102-74-MC	Barricade, Permanent, Type III	3	EA	\$	\$
4.	0104-10-3	Sediment Barrier	8,599	LF	\$	\$
5.	0104-11	Floating Turbidity Barrier	50	LF	\$	\$
6.	0104-15	Soil Tracking Prevention Device	1	EA	\$	\$
7.	0110-1-1	Clearing & Grubbing, Including Asphalt Removal	11	AC	\$	\$
8.	0110-4	Removal of Existing Concrete Pavement	100	SY	\$	\$
9.	0110-7-1	Mailbox (F & I) Single	4	EA	\$	\$
10.	0110-MC	Mailbox, Relocate	1	EA	\$	\$
11.	0120-1-MC	Special Excavation Includes Base Removal of Existing Road, Scarify Existing Sub-base, Recountour and Hydroseed all Disturbed Areas, Include Fill	1	LS	\$	\$
12.	0120-1	Regular Excavation	13,034	CY	\$	\$
13.	0120-4	Subsoil Excavation	100	CY	\$	\$
14.	0120-6	Embankment (Regular)	3,327	CY	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

00300-6
 BID "B"

ADD. #2 (8.20.2012)

BID FORM / BID "B" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "B" / Based on a Completion Time of 200 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M		
					UNIT PRICE	EXTENDED PRICE
15.	0160-4	12" Stabilized Sub-base (Type B)	14,052	SY	\$	\$
16.	0285-709	Optional Base Group 9. Type B 12.5 EXCLUDED For Crushed Concrete Under Graded Aggregate Base Option, FDOT 2007 SPEC / REV '08 SHALL BE USED	13,264	SY	\$	\$
17.	0334-MC	2" Type S-I Asphalt Concrete	1,409	TN	\$	\$
18.	0337-MC	1" Type S-III Asphalt Concrete	702	TN	\$	\$
19.	0350-2-1	Cement Concrete Pavement Reinforced, 6"	725	SY	\$	\$
20.	0400-2-12	Concrete Class II, Trench Slab	10	CY	\$	\$
*21.	0425-2-41	Manhole (P-7) (<10') (Addendum #2)	1	EA	\$	\$
*21A.	0425-2-71	Manhole (J-7) (<10') (Addendum #2)	1	EA	\$	\$
22.	0425-11	Drainage Structure - Modify Existing	1	EA	\$	\$
23.	0425-1-529	Inlets (Ditch Bottom Type C) (Modify)	2	EA	\$	\$
24.	0425-1-549	Inlets (Ditch Bottom Type D) (Modify)	1	EA	\$	\$
25.	0425-1-559	Inlets (Ditch Bottom Type E) (Modify)	2	EA	\$	\$
*26	0430-174-112	Pipe Culvert A2000 12" SD (Addendum #2)	112	LF	\$	\$
27.	0430-175-118	Pipe Culvert A2000 18" CD	285	LF	\$	\$
*28	0430-175-124	Pipe Culvert A2000 24" CD (Addendum #2)	664	LF	\$	\$

BIDDER:_____

AUTHORIZED SIGNATURE:_____

00300-7
 BID "B"
 ADD. #2 (8.20.2012)

BID FORM / BID "B" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "B" / Based on a Completion Time of 200 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M	UNIT PRICE	EXTENDED PRICE
*29	0430-175-215	Pipe Culvert 12" x 18" CD RCP) (Addendum #2)	542	LF	\$	\$
30.	0430-982-125	MES (Round) (18") (CD)	2	EA	\$	\$
31.	0430-982-623	MES (Elliptical) (12"x18") (CD)	14	EA	\$	\$
32.	0430-984-121	MES (Round) (12") (SD)	6	EA	\$	\$
33.	0430-984-129	MES (Round) (24") (SD)	1	EA	\$	\$
34.	0522-1	Sidewalk Concrete 4" Thick	310	SY	\$	\$
35.	0530-1	Rip-Rap, Sand-Cement	11	CY	\$	\$
36.	0530-MC	1-2"Ø River Stone w/ Mirafi 140N Filter Fabric	10	CY	\$	\$
*37	0550-MC	DELETE (Addendum#2)				
38.	0556-1-6	Jack and Bore, Casing Diameter 36"	110	LF	\$	\$
39.	0570-1-2	Sodding (Performance Turf)	12,000	SY	\$	\$
		SUBTOTAL ROADWAY:				\$
40.	MC-U-1	Water Service	1	EA		\$
41.	MC-U-2	Reuse Service	1	EA	\$	\$
42.	MC-U-3	Forcemain Service	1	EA	\$	\$
43.	MC-U-4	Hydrant Assembly Including 24" x 6" Tapping Sleeve	1	EA	\$	\$
43a	MC-U-5	Adjust Valve	1	EA	\$	\$
		SUBTOTAL UTILITY:				\$

BIDDER:_____

AUTHORIZED SIGNATURE:_____

00300-8

BID "B"

ADD. #2 (8.20.2012)

BID FORM / BID "B" - ADDENDUM #2 (8.20.2012)
IFB #12-1938-OV / ERIE ROAD @69TH STREET EAST
INTERSECTION IMPROVEMENTS , PARRISH, FL

Bid "B" / Based on a Completion Time of 200 Calendar Days

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M	UNIT PRICE	EXTENDED PRICE
44.	0700-20-11	Single Post Sign, F&I, Less than 12 SF	17	EA	\$	\$
45.	0700-20-40	Single Post Sign, Relocate	1	EA	\$	\$
46.	0700-20-60	Single Post Sign, Remove	19	EA	\$	\$
*47	0700-MC	DELETE (Addendum#2)				
48.	0706-3	Retro-Reflective Pavement Markers, All Colors	284	EA	\$	\$
49.	0711-11-111	Thermoplastic, Standard, White, Solid, 6"	7,634	LF	\$	\$
50.	0711-11-123	Thermoplastic, Standard, White, Solid, 12"(Crosswalk)	180	LF	\$	\$
51.	0711-11-125	Thermoplastic, Standard, White, Solid, 24"(Stop Bar)	144	LF	\$	\$
52.	0711-11-160	Thermoplastic, Standard, White, Message (R/R Crossing)	3	EA	\$	\$
53.	0711-11-170	Thermoplastic, Standard, White, Directional Arrow	14	EA	\$	\$
54.	0711-11-211	Thermoplastic, Standard, Yellow, Solid, 6"	7,657	LF	\$	\$
55.	0711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	308	LF	\$	\$
		SUBTOTAL SIGNING AND STRIPING				\$
		SUBTOTAL BID PRICE:				\$
		DISCRETIONARY WORK:				\$86,000.00
TOTAL BID "B" Based on a Completion Time of 200 Calendar Day:						\$

BIDDER:_____

AUTHORIZED SIGNATURE:_____

00300-9

BID "B"

ADD. #2 (8.20.2012)

MEMORANDUM



Public Works Department
Engineering Services
1022 26th Ave. E.
Bradenton, FL 34208

MANATEE COUNTY FLORIDA

Phone: 941.708-7462
Fax: 941.708-7475
www.mymanatee.org

To: All Bidders
Thru: Chris Mowbray, P.E., Highway Engineering Division Manager
From: Sunny Fu, P.E., Project Engineer II
Date: August 21, 2012
Subject: Erie Road @ 69th Street East Intersection Improvements- project No 380-6048460

The Construction Costs for the proposed Erie Road @ 69th Street East Intersection Realignment Project, as depicted on the approved Construction Plans and Addendum 2 is estimated by the Engineer of Record to be **\$ 927,209**, nine hundred and twenty-seven thousand two hundred and nine dollars.

Cc by email: Siamak Mollanazar, P.E., Deputy Director – Engineering Services
Jeff Streitmatter, P.E., Project Management Division Manager
Vincent Canna, Senior Engineering Specialist

Public Works Department - Engineering Services
Mailing Address: P. O. Box 1000, Bradenton, FL 34206-1000
Street Address: 1022 26th Ave. E., Bradenton, FL 34208
* PHONE: 941.708-7462 * FAX: 941.708-7475
* www.mymanatee.org

LARRY BUSTLE * MICHAEL GALLAN * JOHN R CHAPPIE * ROBIN DiSABATINO * DONNA G. HAYES * CAROL WHITMORE * JOE McCLASH
District 1 District 2 District 3 District 4 District 5 District 6 District 7