



# MANATEE COUNTY FLORIDA

July 23, 2011

TO: All Interested Bidders

SUBJECT: **Invitation for Bid # 11-1949-DS**  
**El Conquistador Parkway Extension Phase II A**  
**Project 6068461 6.2**

## **ADDENDUM # 2**

**Bidders are hereby notified that this Addendum shall be acknowledged on pages 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 deadline for clarification of questions had been extended to July 19, 2011 at 3:00 pm.** This deadline had been established to maintain fair treatment of all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve. Questions received after this date and time shall not be considered

The responses to the submitted questions have been provided by Mrs. Sunny Fu, Project Engineer II, Manatee County Government

**Attachment: Letter dated June 22, 2011 (10 pages)**

### **Bidders:**

**The Bid for Bid "A" and Bid "B" attached to this Addendum supersede all other Bid Forms issued for this solicitation and must be used in submission of your bid in response to this Invitation For Bid. (8 pages)**

Finance Management Department  
Mailing Address: Purchasing Division: 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205  
PHONE: 941-749-3045 \* FAX: 941-749-3034  
[www.mymanatee.org](http://www.mymanatee.org)

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

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July 23, 2011

Addendum # 2

**Invitation for Bid # 11-1949-DS**

**El Conquistador Parkway Extension Phase II A**

**Project 6068461 6.2**

Attached is a copy of the revised engineer's estimate letter (1) page dated July 20, 2011. It is important to note that Manatee County Government is currently receiving competitive bids which are up to 50% lower than engineer's estimates. (1 page)

A change has been initiated on the following pages of the IFB plans. By way of this Addendum # 2 all interested bidders will need to remove the following pages, Front Index Page, Bid Form Page (1A), (Sheet 6 of), Sheet 17 of, Sheet 19 of, Sheet 20 of, and Sheet 33 of, and replace with the pages provided in the Addendum # 2. (7 pages)

A change has been initiated on the following pages of the Special Provisions. By way of this Addendum # 2 all interested bidders will need to remove the following pages # pages 7- 12 and replace with the pages provided in the Addendum # 2. (6 pages)

Attached are four (4) pages of the FDOT Graded Aggregate Base information to be made part of the master bid document.

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.

**The deadline for submitting sealed Bids at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 is July 29, 2011 at 4:00 pm.**

Sincerely,



R. C. "Rob" Cuthbert, CPM, CPPO  
Purchasing Official

/ds

Attachment (37 pages)

Finance Management Department

Mailing Address: Purchasing Division: 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205

PHONE: 941-749-3045 \* FAX: 941-749-3034

[www.mymanatee.org](http://www.mymanatee.org)

# MEMORANDUM



Public Works Department  
Engineering Services  
1022 26<sup>th</sup> Ave. E.  
Bradenton, FL 34208

MANATEE COUNTY  
FLORIDA

Phone: 941.708-7462  
Fax: 941.708-7475  
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**To:** Vincent A. Canna, Senior Engineering Specialist  
**Thru:** Siamak Mollanazar, P.E., Deputy Director-Engineering Services  
**From:** Chris Mowbray, P.E., Highway Engineering Division Manager  
**Date:** July 20, 2011  
**Subject:** EI-Conquistador Parkway Phase II A Improvements-  
Engineering Cost Estimate-Addendum 2

The Construction Costs for the proposed EI-Conquistador Parkway Phase II A Roadway Improvements Project (connecting the existing East and West segments), as depicted on the approved Construction Plans (including revised plans, dated on July 14, 2011), are estimated by the Engineer of Record to be **\$ 2,190,789**.

If you have questions, or require additional information, please do not hesitate to call me at Ext. 7605.

# MEMORANDUM



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Engineering Services  
1022 26<sup>th</sup> Ave. E.  
Bradenton, FL 34208

MANATEE COUNTY  
FLORIDA

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**To:** Vincent A. Canna, Senior Engineering Specialist  
**Thru:** Chris Mowbray, P.E., Highway Engineering Division Manager *CUM*  
**From:** Sunny Fu, P.E., Project Engineer II *SF*  
**Date:** July 22, 2011  
**Subject:** EI-Conquistador Parkway Phase II A Improvements-  
IFB-11-1949-DS-2011/DMS-Response to Bidder's Questions

## The Clarifications from Engineering Staff are as follows:

1. Cover Sheet, the current surveyor of record shall be ZNS Engineering in lieu of Wilson Miller (the original surveyor). Please refer to attached new Cover Sheet.
2. Sheet 1A, the quantity sheet has been updated. Item #9 has been completely removed from bid form. Please replace the old Sheet 1A with attached new Sheet 1A.
3. Sheet 6, the Note of the Concrete Headwalls for Single Barrel Box Culvert shall be written as "Conc. Headwall per FDOT 2010 index #289".
4. Sheet 17, Pond Blow-Up Detail, the 38LF of 36" PVC shall be written as 38LF 30" PVC to match plan view. This clarification does not affect the bid item.
5. Sheet 19, Section B-19, the width of headwall for Single Barrel Box Culvert shall be written as 42' instead of 56'. The Length of the Single Barrel Box culvert in the plan view shall be written as 136LF instead of 140LF to match item # 16 on bid form. The detail for both single and double box culvert (section-19 & D-19) shall follow FDOT 2010 Index #289. The payment for Wing Walls, Cutoff Walls and Head Walls shall be included in the Box Culverts. Please also see revised bid item #16 and # 17.
6. Sheet 20, Inset "A", the 60" double RCP culvert shall be 194LF for each pipe (388LF in total) to match plan & profile on Sheet 12. See revised bid item # 27.
7. Sheet 33, Summary of Earthwork, the quantities of excavation and embankment have been updated, please replace old sheet 33 with attached new sheet 33. See revised bid item # 8.

## Responses to Bidder's questions regarding this project are as follows:

### Questions raised in IFB meeting-June 16, 2011

Question 1: How will Liquid Asphalt Adjustment be considered?

**Response:** The bid price for the asphalt mix includes the cost of the liquid asphalt or the asphalt recycling agent, per FDOT specification 2000. There will be no separate payment or unit price adjustment for the asphalt binder material in the asphalt mix.

**Question 2:** Who will own the extra dirt resulted from the construction?

**Response:** Contractor shall own the extra dirt resulting from the construction.

**Question 3:** How will Prime/Tack be paid?

**Response:** Per FDOT Specifications 2010, prime/tack will not be paid separately; instead, it is to be included in bid item #13, 8" Lime Rock Base only, or bid item # 13A, Graded Aggregate Base only.

**Question 4:** Please clarify spread rate of 1" FC-III, 100 lb/SY, and 2" S-I 200lb/SY in Quantity Sheet.

**Response:** FC-III (bid item #15) shall be 1" thick, and S-I (bid item # 14) shall be 2" thick, in-place value. The plan quantities have been adjusted upward for the corresponding items. The actual pay quantities will be based on the average spread rate being used, per FDOT Specifications 2000.

**Question 5:** Base material shall be any material in Optional Base Group 6 or Lime Rock only?

**Response:** 8" Lime Rock (bid item #13) or 9" Graded Aggregate Base (bid Item #13A) shall be used for the base material. The bid form has been updated to reflect this change. The contractor shall bid either 8" Lime Rock (bid item #13) only, or 9" Graded Aggregate Base (bid item #13A) only. The Graded Aggregate Base shall meet FDOT Specifications 2007(rev 8-8-07) (1-08) as attached.

**Question 6:** Can material excavated from pond be used for embankment?

**Response:** All excavated material shall be tested for the suitability to be used for embankment, meeting FDOT Specifications 2010. The contractor shall submit quality control test results to engineer, following FDOT Specifications 2010, section 120-10.

**Question 7:** Shall Audio Video be requested prior to construction?

**Response:** Yes, Audio Video shall be performed prior to construction according to Contractor's Documents.

#### **Questions received on June 15, 2011**

**Question 1:** Across the state there have been numerous instances of severe deterioration of corrugated metal pipe, including bituminous coated CMP, necessitating emergency replacements. Given the service life of the ACCMP product, would the County allow use of RCP in place of ACCMP at the contractor's discretion?

**Response:** All ACCMPs are not in County's Right-of-way, and were requested by private owner for agriculture operation and farming activities. ACCMP shall be only used where as noted in the plans.

**Question 2:** All elliptical pipe is specified as RCP. It appears that the County has a preference for using PVC for the round installations. Since concrete is allowed for elliptical, we assume that round RCP would also be allowed, if a contractor chose to use it. Please verify.

**Response:** County has preference for using RCP within Right-of-Way. PVC pipes were proposed at the appropriate locations shown on the plans (where no traffic expected) for cost saving, outside of Right-of-Way. RCP would be allowed in lieu of PVC where shown on plans; however, County will not be responsible for any extra cost raised by using RCP in lieu of PVC pipes.

**Question 3:** The HSA geotechnical report was very thorough and indicated that the in situ conditions and specified construction practices would result in favorable geotechnical conditions for use of the concrete box culverts and concrete pipe. The geotechnical study did not appear to address use of flexible, thermoplastic pipe products such as PVC or HDPE although the County has indicated use of PVC is allowed. To what extent has the County's engineering design ascertained that a flexible pipe-soil system can be successfully designed and constructed to perform within acceptable service limits given the high groundwater/hydrostatic forces and soil classifications? Has the County's engineering analysis determined that a contractor can install a flexible plastic pipe, as specified, and maintain the standard <5% deformation limit?

**Response:** The contractor shall be responsible to install PVC pipes at the locations shown in the plans, meeting FDOT specifications 2010. County will not be responsible for any extra cost raised by using RCP in lieu of PVC pipes where shown on plans.

**Questions received on June 16, 2011**

**Question 1:** The bid quantities for bid item 120-1 Regular Excavation and bid item 120-6 Embankment are very close in quantity. If the Embankment cubic yardage does not have shrinkage applied it appears there would be a shortage of fill. We need a clarification on this item and maybe a bid item for import fill added to the bid schedule. Darwin Lloyd, Sarasota Land Services, Inc.

**Response:** The quantity of Regular Excavation has been updated. Please refer to attached Sheet 1A, revised bid item #8. As a result of the increased quantity of Regular Excavation, we believe that it is not necessary to include a separate bid item for Import Fill. The Regular excavation and Embankment are paid based on plan quantities, in place value. The Contractor shall take the shrinkage and moisture content into consideration during construction. Organic soils shall not be used for pavement or structure fills. Undesirable material such as muck, stumps, roots, brush, vegetable matter, rubbish, reinforcement bar or other material that doesn't compact into a suitable and enduring roadbed, shall not be used for embankment. County will not pay extra compensation for any re-handling of materials, per FDOT Specifications 2010.

**Questions received on June 21, 2011**

**Question 1:** Can the box culvert be made & supplied as per FDOT "Type 1" Box Culvert Standards?

**Response:** Precast Box Culvert Type "A" per FDOT 2010 index 291 and 292 is acceptable. The Contractor shall submit shop drawing for Engineer's approval.

**Question 2:** Can the "Type P-6" inlets be supplied FDOT "Alt-A" bottoms?

**Response:** FDOT "Alt-A" bottoms are acceptable for "Type P-6" Curb Inlets. The Contractor shall submit shop drawing for Engineer's approval.

**Question 3:** Can the double run of box culvert be made as "one piece" culvert and a smaller size, as long as the same amount of water flow or slightly greater is achieved?

**Response: The double barrel box culvert shall not be replaced by single barrel box culvert.**

**Question 4:** Can the wing/end walls for the box culverts be precast?

**Response: Wing/end walls for box culverts shall be cast-in-place per FDOT Design Standard Index 2010. The Contractor shall submit shop drawing for Engineer's approval.**

**Questions received on June 22, 2011**

**Question 1:** Is there CAD drawings available for the drainage swales and agricultural ditches.

**Response: CAD drawings of construction plans are not available; however, PDF format of construction plans can be accessed online through [www.mymanate.org](http://www.mymanate.org) and [www.demandstar.com](http://www.demandstar.com)**

**Questions received on June 23, 2011**

**Question 1:** Line Item 430-174-101 & 430-174-102 are noted as PVC C900 DR-18. Our suppliers are having difficulty pricing/sourcing this class of pipe. A2000 PVC is a widely used pipe for storm drainage in various applications. Please advise.

**Response: A2000 is acceptable. Bid form has been adjusted accordingly. See bid item #22 and #23.**

**Question 2:** Please clarify Line Items 410-70-MC regarding the FDOT Standards. Can the construction of the box culverts be referenced to FDOT Design Standards 2010 Indexes #291 & #292? Please advise.

**Response: The construction of box culverts shall follow FDOT 2010 Design Standard Index #289, #291 and #292; however please be aware that the plan unit prices are based on the lengths of the culverts, as per FDOT Standard Specifications for Road and Bridge Construction 2007.**

**Questions received on June 23, 2011**

**Question 1:** I would request that the EOR on this project review the earthwork calculations on Sheet 33 of the plans. I believe the excavation quantities for Pond #2 are incorrect. This is something that needs to be answered immediately-thanks.

**Response: Sheet 33 has been reviewed and adjusted. The regular excavation shall be 7,714 CY for pond 1, and 13,704 CY for pond 2, and 6,878 CY for pond 3. Total regular excavation shall be 59,117 CY. Please refer to revised Sheet 33 attached in Addendum 2, and revised bid item #8.**

**Questions received on July 1, 2011**

**Question 1:** Bid items 16 and 17, 4'x10 box culvert, will these be allowed to be precast boxes?

**Response: Precast boxes per FDOT 2010 Design Standard Index are acceptable. The Contractor shall submit shop drawing for the Engineer's approval.**

**Question 2:** Bid items 16 and 17, 4'x10' box culvert, the Florida Department of Transportation, F.D.O.T., pays for the wingwalls in a separate concrete bid item by the cubic yard, why aren't the wingwalls being handled in that fashion with this job?

**Response:** For this County project, the costs of Wing Walls, Head Walls, and Cut-off Walls shall be included in the unit price for box culvert per linear foot.

**Question 3:** Bid item 22, Pipe Storm Sewer Culv (PVC C-900, DR-18) (24"), why are we putting in pressure rated pipe for a storm sewer application? The F.D.O.T allows the use of a PVC pipe product called A-2000, please clarify.

**Response:** A2000 is acceptable. Bid form has been adjusted accordingly. See bid item #22 and #23.

**Question 4:** Bid item 23, same question regarding 30-inch pressure pipe in a storm sewer application as the previous question, F.D.O.T. allows the use of A-2000 PVC, please clarify.

**Response:** A2000 is acceptable. Bid form has been adjusted accordingly. See bid item #22 and #23.

**Question 5:** Bid items 24 thru 26, item 28, and items 31 thru 34, the bid item description for these items is asking for Asphalt Coated Corrugated Metal Pipe, can Aluminized Steel Corrugated Metal Pipe without an asphalt coating be used instead? Please clarify.

**Response:** All ACCMPs are not in County's Right-of-Way, and were requested by private owner for agriculture operation and farming activities. ACCMP shall be only used where as noted in the plans. Aluminized Steel Corrugated Metal Pipe will not be considered for this project.

**Question 6:** Bid item 55, Lighting Conduit (Electrical, 4" PVC DR-18), why are we using a pressure rated pipe for an electrical conduit and not SCH-80 PVC for this application? If we are to use the DR-18 PVC, what color will it have to be?

**Response:** 4" PVC DR-18 pipes (bid item #55) will be used as the sleeves for the future lighting conduits. The color shall be white.

**Question 7:** Bid item 13, Optional Base Group 6: Limerock 8" LBR 100, the bid item description calls for limerock, Manatee County allows the use of Crushed Concrete Base material, can we substitute Crushed Concrete base material at the same thickness as limerock? Please clarify.

**Response:** The Crushed Concrete Base material would be an acceptable alternative if it meets the same criteria for 9" Graded Aggregate Base in FDOT Specifications 2007(rev 8-8-07) (1-08) as attached. A separate pay item 13A has been added in the bid form. The contractor shall bid either 8" Limerock (bid item # 13) only, or 9" Graded Aggregate Base (bid item #13A) only.

**Question 8:** The soils report provided in the specification book prepared by HSA Engineers & Scientists, do not show encountering any rock, that surprises us as we have worked on that property and found that a lens of very hard cap rock can be encountered just below the surface of the existing ground, can a bid item for rock excavation with an arbitrary quantity be added to the bid form in the event rock is found during excavation of utilities, ponds, roadway, and drainage items?



**Response:** HSA mentioned that there were cemented sands or “hardpan” occurred at the site. A separate bid item #8A has been included in the bid form in case that an excavation of rock or “hardpan” is needed. The quantity paid under this pay item shall be excluded from bid item #8 (Regular Excavation).

**Question 9:** Special Provisions of the specifications, page 12, MAINTENANCE OF TRAFFIC PLAN, does the County really need a signed and sealed Traffic Plan for this job? There is no traffic out there! To require a signed and sealed M.O.T. plan is a waste of taxpayers money.

**Response:** The construction vehicles shall access/exit the site from 53rd Ave. W. / 75<sup>th</sup> St. W. only, therefore Signed & Sealed Traffic plan are not required for this job, as there would be no traffic other than construction vehicles during construction. The Special Provision, Maintenance of Traffic on page 11 to page 12 has been updated. Please see the attachment.

#### Questions received on July 8, 2011

**Question 1:** The cross sections shown on the plans indicate cut and fill areas for the entire 220' width. Does the regular excavation volume in bid item #8 include all the cut areas shown in the cross sections or only the 120' ROW? Please clarify what is to be included in pay item #9, Lateral Ditch Excavation. Can this item be quantified rather than bid as a lump sum?

**Response:** All Cut & Fill calculations have counted the entire area shown on cross sections regardless Right-of-Way locations. Bid item #8 reflects all cut areas shown in the cross sections, including the area outside of Right-of-Way. Bid item #9, Lateral Ditch Excavation, has been removed since it appears a duplicate of excavation in this situation.

**Question 2:** The quantity for bid item #18, Class I Concrete (Endwalls) is 23 CY. The volume required for the 2 EA: 30" Endwalls and the 2 EA: Double 60" Endwalls would total +/- 34 CY. Please review and advise. Should the quantity be adjusted accordingly?

**Response:** Bid item #18 has been increased to 28 CY, using Class II Concrete. Bid item #19, Class I Concrete has been increased to 8 CY. Please refer to attached bid form.

#### Questions received on July 15, 2011

**Question 1:** Will the contractor be required to laser profile and televise the storm drain pipe?

**Response:** Yes, the Contractor shall laser profile and televise all newly constructed storm pipes on this project, except ACCMP pipes for agriculture operations, following FDOT Specifications 2010.

#### Questions received on July 15, 2011

**Question 1:** Is laser profiling and televised testing required on all storm drain, including the metal pipe in the farmers field?

**Response:** The Contractor shall laser profile and televise all newly constructed storm pipes on this project, except ACCMP pipes for agriculture operations, following FDOT Specifications 2010.

#### Questions received on July 18, 2011

**Question 1:** Could you please provide a detail for the threaded rod installation for the concrete revetment mat?

**Response:** In lieu of a detail, please refer to the following language for the threaded anchor rod installation. The installation of the threaded rod for the Concrete Revetment Map shall follow the Special Provisions; however, the 3" diameter anchor hole shall be changed to 6" diameter. As for the location of the anchor rods, please note the following change. "Use 1" diameter ASTM A36 threaded anchor rods placed midway along the slope of bank ~~between the point where the water surface intercepts the revetment mat and the bottom of retaining wall footing.~~" Please note that the anchor rods consist of 1 row at a maximum of 5' spacing, and are in addition to the plan called out to key into top of bank and toe of slope, as shown in Sheet 19. The Special Provisions, Fabric Reformed Concrete Revetment Mat, has been revised to reflect this change. Please refer to attached page 7-10.

#### Questions received on July 19, 2011

**Question 1:** Bid item, Line No. 8, Item No. 120-1, Regular Excavation (Includes Ponds), bid quantity is 30,821CY, this volume does not include the pond volumes according to the SUMMARY OF EARTHWORK table on plan sheet 33, what is up with this? Please clarify. Will a bid item for the pond excavation volumes be added to the bid form?

**Response:** Sheet 33, Summary of Earthwork has been updated to match bid items. Bid item #8, Regular Excavation quantity has also been adjusted to include the pond excavation volumes. Please refer to attached Sheet 1A and Sheet 33.

**Question 2:** Why are there not bid items to reflect what the SUMMARY OF EARTHWORK table shows? For example, according to the table there is 1,645 (one thousand six hundred forty-five) cubic yards of Subsoil Excavation that does not appear on the bid form. What is up with this?

**Response:** Sheet 33, Summary of Earthwork has been updated to match bid item #8, # 8A, # 10, # 11. Bid item # 10, Excavation, Subsoil (Roadway), 2215 CY is shown in the bid form. Please refer to attached Sheet 1A and Sheet 33.

**Question 3:** Will someone revisit the SUMMARY OF EARTHWORK table and incorporate appropriate bid items in the bid form to reflect what the table is showing us?

**Response:** Sheet 33, Summary of Earthwork has been updated to match bid item #8, # 8A, # 10, # 11. Please refer to attached Sheet 1A and Sheet 33. See revised bid item # 8 and # 8A.

#### Questions received on July 19, 2011

**Question 1:** Sheet #17 denotes a length of 36" PVC w/Mitered Ends. No bid line item is listed on bid form.

**Response:** The 36" PVC shall be written as 30" PVC. Bid item #23 has included the quantity of 30" PVC. Please refer to revised Sheet 17.

**Question 2:** Several ACCMP Pipe w/ Risers have lengths that are another one to two lineal feet beyond the 2' Stub and standard length 20 lf of pipe. Is there flexibility in the agriculture where the pipe can be adjusted minimally to accomodate the pipe lengths.

**Response: Yes, up to 2' adjustment is acceptable; however the adjustment shall not cause excessive slope or inadequate recovery area.**

**Question 3:** Please clarify the 24" & 30" PVC Drainage Pipe. The spec calls for DR-18 PVC which normally would be utilized for pressurized conditions and extremely expensive for this use. A-2000 PVC Pipe is FDOT Approved Drainage Pipe that is extensively utilized in drainage projects and at considerable less cost.

**Response: A2000 is acceptable. Bid form has been adjusted accordingly. See bid item #22 and #23.**

SF/Jh

Cc: Ron Schulhofer, Public Works Director  
Siamak Mollanazar, P.E., Deputy Director – Engineering Services  
Bruce Simington, Project Management Division Manager

**EI Conquistador Parkway Extension Phase IIA  
Bid Form (Attached to Addendum 2)**

LINE NO.	ITEM NO.	DESCRIPTION	EST. QTY	U/M	PRICING	
					UNIT PRICE	EXTENDED PRICE
1	101-1	Mobilization	1.00	LS		
2	102-1-1	Maintenance of Traffic	1.00	LS		
3	104-12	Turbidity Barrier, Staked	200.00	LF		
4	104-10-3	Sediment Barrier (Inc's Silt Fence and Synthetic Bales)	12,897.00	LF		
5	104-15	Soil Tracking Prevention Device	2.00	EA		
6	104-16	Rock Bags	500.00	EA		
7	110-1-1	Clearing & Grubbing	25.00	AC		
8	120-1	Regular Excavation (Includes Ponds)	59,117.00	CY		
BA	120-1-MC	Excavation (Rock or Cemented Sand)	1,200.00	CY		
10.	120-4	Excavation, Subsoil (Roadway)	2,215.00	CY		
11	120-6	Embankment (Regular)	29,364.00	CY		
12.	160-4	12" Type B Stabilization (LBR 60)	26,287.00	SY		
13.	285-706	8" Limerock , LBR 100, **	22,311.00	SY		
13A	285-706	9" Graded Aggregate Base, LBR 120, **	22,311.00	SY		
14.	331-2-MC	2" Type S-1 Asphalt Concrete FDOT 2000	2,454.00	TN		
15.	337-7-MC	1" Asphaltic Friction Course (FC III) FDOT 2000	1,228.00	TN		
16.	410-70-MC	Single Barrel - 4'x10' Box Culvert (Includes Wingwalls, Cutoff Walls and HeadWalls)	136.00	LF		
17.	410-70-MC	Double Barrel - 4'x10' Box Culvert (Includes Wingwalls, Cutoff Walls and HeadWalls)	140.00	LF		
18.	400-2-2	Class II Concrete (Endwalls) (includes reinforcing steels)	28.00	CY		
19.	400-1-15	Class I Concrete (OCS Concrete Pads and Endwall for 30" PVC, includes reinforcing steels)	8.00	CY		
20.	425-1-361	Inlets (Curb) (Type P-6) (<10')	30.00	EA		
21.	425-1-549	Inlet (Dt Bot) (Type D Modified) (<10') Outfall Control Structure	3.00	EA		
22.	430-174-101	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000)(24")	166.00	LF		
23.	430-174-102	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000)(30")	222.00	LF		
24.	430-175-102-MC	Pipe Storm Sewer Culv (ACCOMP)(36")	71.00	LF		
25.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP)(42")	44.00	LF		
26.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP)(48")	384.00	LF		
27.	430-175-104	Pipe Storm Sewer Culv (RCP)(60")	388.00	LF		
28.	430-175-104-MC	Pipe Storm Sewer Culv (ACCOMP)(60")	49.00	LF		
29.	430-175-201	Pipe Storm Sewer Culv (ERCP) (12"x18")	1,185.00	LF		
30.	430-175-201	Pipe Storm Sewer Culv (ERCP) (14"x23")	680.00	LF		
31.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(42")(1/2 Section Riser) 6' Height	2.00	EA		
32.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(48")(1/2 Section Riser) 6' Height	1.00	EA		
33.	430-175-204-MC	Pipe Storm Sewer Culv (ACCOMP) (54") (1/2 Section Riser) 6' Height	9.00	EA		
34.	430-175-205-MC	Pipe Storm Sewer Culv (ACCOMP)(72")(1/2 Section Riser) 6' Height	1.00	EA		
35.	430-982-625	Mitered End Section, Optional - Elliptical/14"x23"	15.00	EA		
36.	430-984-129	Mitered End Section, Optional - Round/24"	8.00	EA		
37.	430-984-133	Mitered End Section, Optional - Round/30"	7.00	EA		
38.	515-2-301	Pedestrian/Bicycle Railing (Aluminum)	237.00	LF		
39.	520-1-8	Type AB (Special) Curb & Gutter	1,050.00	LF		
40.	520-1-10	Type F Curb & Gutter	11,296.00	LF		
41.	522-1	4" Concrete Sidewalk	6,276.00	SY		
42.	524-MC	Concrete Ditch Pavement - Non-Reinforced - Fabric Formed Concrete Mat - 8" Filter Points	582.00	SY		
43.	530-3-4	Rip-Rap (Rubble) (Ditch Lining)	176.00	TN		
44.	908-104-1	Contractor's Sediment and Erosion Control Incld's Dewatering Sump/Pipe/Spreader, Swale, etc.	1.00	LS		
<b>SUBTOTAL ROADWAY</b>						
45.	700-20-11	Sign Single Post, <12 S.F.	31.00	EA		
46.	706-3	Reflective Pavement Marker, All Colors	326.00	EA		
47.	710-12-290	Reflective Paint (Island Nose) (Yellow)	242.00	SF		
48.	711-11-180	Pavement Messages, Thermoplastic (Bike Lane Markings)	19.00	EA		
49.	711-11-170	Directional Arrows, Thermoplastic	19.00	EA		
50.	711-11-251	Skip Traffic Stripe, 6'-10' Yellow, Thermoplastic, 6"	340.00	LF		
51.	711-11-222	Solid Traffic Stripe, 8" Yellow, Thermoplastic	785.00	LF		
52.	711-11-224	Solid Traffic Stripe, 18" Yellow, Thermoplastic	531.00	LF		
53.	711-11-111	Solid Traffic Stripe, 6" White, Thermoplastic	11,251.00	LF		
54.	711-11-221	Solid Traffic Stripe, 6" Yellow, Thermoplastic	10,054.00	LF		
54A	711-11-123	Solid Traffic Stripe, 12" White, Thermoplastic	45.00	LF		
54B	711-11-125	Solid Traffic Stripe, 24" White, Thermoplastic (Stop Bar)	5.00	LF		
<b>SUBTOTAL SIGNING AND STRIPING</b>						
55.	715-2-11	Lighting Conduit (Electrical, 4" PVC DR 18, Color white)	233	LF		
<b>SUBTOTAL LIGHTING</b>						
56.	570-1-1	Performance Turf (Hydroseed)	12,551.00	SY		
57.	570-1-2	Performance Turf (Bahia Sod)	48,896.00	SY		
<b>SUBTOTAL LANDSCAPING</b>						
58.		3" PVC casing (purple, reclaim)	168.00	LF		
59.		12" Ductile Iron Pipe (reclaim water)	98.00	LF		
60.		12" Caps/Plugs	2.00	EA		
61.		Joint Restraints	4.00	EA		
<b>SUBTOTAL UTILITY</b>						
					<b>DISCRETIONARY WORK - 10%</b>	
					\$	180,000.00
<b>TOTAL BID PRICE</b>						

\* Change made for the pay item, July 20, 2011

\*\* Contractor shall bid either Item 13, lime rock only or item 13A, graded aggregate base only

**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.

ADDENDUM #2

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.

ADDENDUM # 2

**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 I-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.

ADDENDUM # 2

**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.



The working and shop drawings shall be certified by a Florida licensed Professional Engineer and state that the design is sufficient for the successful completion of the Work. The working drawings and shop drawings shall include, but not be limited to:

- Traffic Control Plan
- Erosion Control Plan
- Shop Drawings as required by FDOT Standard Specifications

### **Temporary Pavement**

Temporary pavement shall consist of a minimum of Optional Base Group 04 and one (1) inch of Type SP structural course (Traffic C) over a firm, unyielding, well-compacted subgrade. The Contractor shall immediately repair all potholes that develop within the project limits and shall maintain a supply of cold mix on the project site to expedite these repairs.

Payment for the temporary pavement and maintenance of this pavement shall be included under the optional base and Type SP structural course pay item.

### **SUBSOIL EXCAVATION**

The contractor shall detect and remove all unsuitable material within project limit, following FDOT Design Standard Index 500, latest version. Payment for subsoil excavation shall be included in the subsoil excavation pay items unless separate pay items are specified.

### **DEWATERING, SHEETING AND BRACING**

Payment for dewatering, sheeting and bracing shall be included in the applicable pay items unless separate pay items are specified.

### **Approval of Dewatering Plan:**

At least 10 days prior to the commencement of any dewatering activity, the Contractor shall submit to the Project Manager for record purposes only, a detailed description of the proposed dewatering system. This plan shall include design computations, layout, type, and spacing of dewatering devices, number and size of pumps and other equipment, with a description of the installation and operating procedures.

### **FABRIC FORMED CONCRETE REVETMENT MAT**

#### **Description**

Furnish all materials, equipment, and labor and perform all operations for placing fabric formed concrete revetment mat (4" nominal thickness) as per manufacturer's specifications, as specified herein, in accordance with the lines, grades and dimensions shown on the Drawings. Provide a "filter point" type of fabric formed concrete revetment mat as provided by Armorform, Texicon, Hydrotex, Fabriform or approved equal. Prior to placing the fabric-formed concrete revetment mat, adjust the existing canal bank by removing all vegetation, cut/fill the canal bank as required,

and use select fill material to achieve the proposed canal bank cross slopes. Provide an 18" deep trench at the begin/end limits of the fabric formed concrete revetment mat, parallel to the slope in order to anchor the revetment mat. Provide 1 row of anchors at a maximum 5' spacing for the entire length of revetment mat. Use 1" diameter ASTM A36 threaded anchor rods placed midway along the slope ~~of bank between the point where the water surface (El.+3.0) intercepts the revetment mat and the bottom of retaining wall footing.~~ Place the 1" diameter threaded anchor into a 3" 6"diameter hole prior to grouting. Anchor embedment shall be a minimum of 24" into the soil. Position the woven fabric envelope in a mat configuration over the slope surface and fill with a pumpable sand/cement grout in a way that forms a stable mat of suitable weight, thickness and configuration.

### **Submittals**

Submit for the Engineer's approval - method of installation details for the entire system along with shop and layout drawings. Submit manufacturer's product literature and specifications for installation.

Each panel shall be labeled and numbered in the submitted drawings. Clearly mark on each panel shop drawing the baffle locations and the edges of the panel which are to be sewn or closed and which are unsewn or left open, for joining to adjacent panels. Dimension the fabric forms to include all aprons, overlaps, and anchor, flank or toe trenches and contraction factors. Over dimension the forms, in both length and width, to make allowance for form contraction as they are filled with fine aggregate concrete.

Layout drawings shall show the field assembly of the fabric form panels for the entire project. The drawings shall identify each panel number, its location and sequence of installation, pertinent elevations and coordinates, direction of flow, anticipated water levels, and structures such as retaining walls, storm drain discharge pipes and other existing and future structures that may affect the placement of the fabric formed concrete linings. In addition, show lap joint locations as well as notes regarding special field splicing operations.

### **Materials**

The structural grout (used to fill the fabric envelope) shall consist of a mixture of Portland cement, fine aggregate, and water so proportioned and mixed as to provide a pumpable slurry. Pozzolan and grout fluidifier conforming to these specifications may be used. Submit the proposed mix design for approval with substantiating tests as follows:

- (1) Portland cement conforming to FDOT Standard Specifications Section 921, Type I and Type II.
- (2) Aggregate shall meet the requirements of the FDOT Specifications for concrete aggregate, except as to grading. Aggregate grading is reasonably consistent and well graded from the maximum size which can be conveniently handled with available pumping equipment.
- (3) Water conforms to FDOT Standard Specifications Section 923. .

- (4) Pozzolan conforms to FDOT Standard Specifications Section 929 and is used in amounts of 10 to 30% by weight of the cement content.
- (5) Grout fluidifier conforms to FDOT Standard Specifications Section 924 for Water Reducing and Retarding Admixtures. The admixtures may be used to reduce segregation, increase workability and pumpability, and improve strength and water-tightness.
- (6) Air Entraining Admixtures conform to FDOT Standard Specifications Section 924. The air content does not exceed 7% of the volume of the grout.
- (7) Demonstrate the suitability of fabric design by injecting the proposed grout into 6-inch diameter sleeves under a pressure of 10 to 15 psi maintained by means of air pressure or a stand pipe for 10 minutes. Construct the sleeves of the same fabric used in the individual layers of fabric. A 6 by 12 in. test cylinder shall be cut from each specimen and tested in accordance with ASTM C39.

Ensure that the average compressive strength of the test cylinder is at least 20% higher at 7 days than that of companion test cylinders made in accordance with ASTM C 31, and not less than 2,500 psi at 28 days.

Use fabric-forming material consisting of specifically woven, double layer, open selvage fabric jointed in mat configuration. The fabric shall consist of uncoated synthetic yarns (nylon or polyester) with sufficient tensile strength and porosity to withstand the pressure of the grout injection pump without breaking the layers of fabric. Forms shall be woven with a minimum of 50% textured yarns (by weight) to improve adhesion to fine aggregate concrete and to improve filtration.

The fabric (double layer) mass per unit area shall not weigh less than 12 ounces/yard<sup>2</sup> and shall measure at least 25 mils in thickness. Fabric of equal or greater strength and porosity may be used with the approval of the Engineer. Fabric containing film type polypropylene fiber will not be considered as an acceptable alternate.

Cut individual mill width panels to suitable length and separately join the two layers of fabric, by means of a sewn seam, edge to edge using nylon thread. The tensile strength of stitched joints shall be not less than 90 lbs/in. when tested in accordance with ASTM D4884. All sewn seams and zipper attachments shall be made using a double line of U.S. Federal Standard Type 401 stitch. Label the fabric forms in accordance with ASTM D 4873, Guide for Identifying, Storage and Handling of Geosynthetics Rolls.

Provide hydrostatic uplift relief by installing filter points in the forms, woven in a way that permits passage of water through the filter points spaced at approximately 8 inch centers as indicated on the plans. Use select fill material where fill is required to achieve the proposed canal bank cross slopes, under the fabric envelope.

Anchor rods shall consist of ASTM A36 material or stronger. Anchor rods shall be threaded. Provide matching hex nut and a 6" square plate washer, 3/8" thick, for each anchor rod. Estimated length of anchor rods is 31" which includes 24" embedment into soil.

The Contractor shall submit a manufacturer's certification that the supplied fabric forms meet the criteria of the specifications.

## **Equipment**

Mixing and pumping equipment used in preparation and handling of the grout shall be approved by the Engineer. Remove all oil or other rust inhibitors from the mixing drums, stirring mechanisms, and other portions of the equipment in contact with the grout before the mixers are used. The pumping equipment shall have a variable flow rate to provide enough pressure for pumping without breaking the fabric.

Accurately measure all materials by volume or weight as they are fed into the mixer. The quantity of water shall be such as to produce a grout having a pumpable consistency. Mix for no less than one minute. If agitated continuously, the grout may be held in the mixer or agitator for a period not exceeding 2.5 hours in temperatures below 70°F, and for a period not exceeding two hours at higher temperatures. If there is a lapse in a pumping operation, recirculate the grout through the pump or through the mixer drum (or agitator) and pump.

## **Construction Methods**

Prior to trenching at the begin/end revetment mat slope protection limits, contractor shall verify/locate all existing utilities. Hand dig trench at locations of potential conflict to prevent damage of utilities during construction of the fabric formed concrete revetment mat.

Prepare 3" 6" diameter anchor holes using acceptable methods. Prevent surrounding soil from reentering the hole prior to grouting and inserting anchor. Grout entire depth of hole prior to placing anchor at proper embedment depth of 24".

Before injecting grout into revetment mat, position the fabric at its design location. Each panel shall be a continuous or monolithic unit for its full width, including the trench portion. Each panel shall consist of a number of mill widths of open selvege construction per manufacturer's requirements; join the double layer fabric together by sewing the two upper layers together and the two bottom layers together, at the edges per manufacturer's requirements. Where adjacent panels cannot be joined in this manner, lap them a minimum of 2 feet or per manufacturer's requirements. Simple butt joint, either sewn or unsewn, will not be allowed. Place the ends and upper limits of the fabric mat in a trench of suitable width as shown on the plans and per manufacturer's requirements. Fabric forms should be tailored in the field to fit around pipes and other appurtenances. Cut opening in fabric form that is slightly smaller than the object and sew the perimeter of the form closed.

Make small cuts in the top layer of the fabric forms to allow for the insertion of the grout hose or grout nozzle. Introduce grout into the space between the top and bottom layers of fabric and inject in a way that excessive pressure on the fabric envelope is avoided. Starting at the lowest elevation and working up the slope, inject the grout in a way that the distance from the point of injection to the end of the panel is not greater than 30 feet. After grouting has been completed and the fine aggregate concrete has set, backfill the void between trench wall and filled fabric.

Holes in the fabric left by the removal of the grout hose or inserts shall be temporarily closed by inserting a piece of burlap or similar material. Remove the burlap when the concrete is no longer fluid and the surface is firm to hand pressure. Limit foot traffic on the freshly pumped fine aggregate concrete lining of the fabric formed concrete revetment mat to a minimum of one hour after pumping in order to reduce indentation.

**Acceptance Sampling and Testing**

Acceptance tests will be by compressive strength. For each 500 yd<sup>2</sup> or less of placement, the Engineer will make two concrete cylinders and test at 28 days.

**Method of Measurement**

The quantity to be paid for under this Section will be paid for at the Contract unit price per square yard. Measurements will include portion of the fabric formed concrete revetment mat in trenches and no allowance will be made for overlaps.

**Basis of Payment**

The quantity to be paid for as provided above will be at the Contract unit price per square yard for Fabric Formed Concrete Revetment Mat measured as specified above and adjusted as specified herein. The cost of furnishing and installing 1 row of 1” diameter threaded anchors, placed at 5’ centers and embedded and grouted 24” deep in 3” 6” diameter holes, shall be included in the unit price for Fabric Formed Concrete Revetment Mat.

The unit price to be paid will be reduced when the average of all acceptable lot strengths of concrete is less than the specified minimum compressive strength. The unit price reduction will be in accordance with the following schedule:

Average strength less than specified strength by:	Percentage reduction in base unit price
100 psi to 199 psi	1
200 psi to 299 psi	3
300 psi to 399 psi	5
400 psi to 499 psi	10
over 500 psi	25

Price and payment includes full compensation for all work, labor, equipment and materials required.

**MAINTENANCE OF TRAFFIC**

The Contractor shall provide access to businesses and local residents at all times. No lane closures will be allowed between the hours of 6AM to 7PM. Business Entrance signs per FDOT Index 17355 (FTP-59) shall be placed at all business entrance points and maintained during all phases of

construction. Payment for these items shall be included under the pay item for Maintenance of Traffic.

Ingress to and egress from the construction site shall be taken via 53<sup>rd</sup> Avenue West and /or 75<sup>th</sup> Street West. No construction vehicles shall access to the construction site from the existing El Conquistador Parkway southeasterly of the construction site until such time as the roadway is opened to the general public.

Temporary Striping and Marking during 30 day cure time of the asphalt shall be part of the pay item for Maintenance of Traffic, in accordance with Section 102-1, FDOT Specifications 2010.

#### **MAINTENANCE OF TRAFFIC PLAN**

The Contractor shall prepare a Maintenance of Traffic plan and submit it to the Engineer and the Project Manager for review prior to implementation. It must comply with all FDOT safety criteria, FDOT Design Standards 600 Series Indexes, FHWA and MUTCD standards, and allow for traffic to operate in daytime or nighttime. The Maintenance of Traffic plan will not require the seal of a licensed professional engineer with a current FDOT Advanced Work Zone certification. No road closures will be allowed without prior approval from the Engineer.

#### **MAINTENANCE OF STORM DRAINAGE SYSTEM**

The Contractor shall be responsible at all times to maintain the operation of existing stormwater facilities, or, when existing stormwater facilities are removed, to provide equivalent capacity alternate forms of stormwater removal adequate to prevent upstream flooding in excess of existing conditions. This responsibility shall include the installation of temporary connections, bypass pumping, or other temporary means necessary until the new drainage system is fully operational. Payment for these items shall be included under the applicable pay item.

#### **ACCEPTANCE BY THE CONTRACTOR**

The Contractor and the Contractor's Subcontractors shall be required to sign the "Contractor's Acceptance form, Schedule I, included in the Agreement, prior to commencing work performed in accordance with the Agreement. By signing the "Contractor's Acceptance", the Contractor agrees to abide by and perform all applicable terms of the Agreement, including, but not limited to the following sections of the Agreement:

Section 3- Special Provisions  
Section 9- Insurance  
Section 11-Indemnification  
Exhibit C-FPL Consent Agreement  
Exhibit F-insurance requirements

#### **DUST CONTROL**

The Contractor shall control dust resulting from construction operations at all times. The locations and frequencies of applications shall be as directed by the Engineer. Dust control is

**BID FORM**  
(Submit in Triplicate)

BID "A"

IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA

**BID "A" BASED ON COMPLETION OF 200 Calendar Days**  
**ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
1.	101-1	Mobilization	1.00	LS	\$	\$
2.	102-1-1	Maintenance of Traffic	1.00	LS	\$	\$
3.	104-12	Turbidity Barrier, Staked	200.00	LF	\$	\$
4.	104-10-3	Sediment Barrier (Incl's Silt Fence and Synthetic Bales)	12,897.00	LF	\$	\$
5.	104-15	Soil Tracking Prevention Device (Addendum #2)	2.00	EA	\$	\$
6.	104-16	Rock Bags	600.00	EA	\$	\$
7.	110-1-1	Clearing & Grubbing	25.00	AC	\$	\$
8.	120-1	Regular Excavation (Includes Ponds) (Addendum # 2)	59,117.00	CY	\$	\$
8A	120-1-MC	Excavation (Rocks or Cemented Sand) (Addendum # 2)	1,200.00	CY	\$	\$
9.		<b>Addendum # 2 removes line 9</b>				
10.	120-4	Excavation, Subsoil (Roadway)	2,215.00	CY	\$	\$
11.	120-6	Embankment (Regular)	29,364.00	CY	\$	\$
12.	160-4	12" Type B Stabilization (LBR 60)	26,287.00	SY	\$	\$
13.	285-706	8" Limerock, LBR 100 (Addendum # 2)	22,311.00	SY	\$	\$
<b>BID EITHER # 13 or # 13A (not both)</b>						
13A	285-706	9" Graded Aggregate Base LBR 120 (Addendum #2)	22,311.00	SY	\$	\$
14.	331-2-MC	2" Type S-1 Asphalt Concrete FDOT 2000 (Addendum #2)	2,454.00	TN	\$	\$
15.	337-7-MC	1" Asphaltic Friction Course (FC III) FDOT 2000 (Addendum # 2)	1,228.00	TN	\$	\$
16.	410-70-MC	Single Barrel - 4'x10' Box Culvert (includes Wingwalls, Cutoff Walls and Headwalls) (Addendum # 2)	136.00	LF	\$	\$
17.	410-70-MC	Double Barrel - 4'x10' Box Culvert (includes Wingwalls, Cutoff Walls and Headwalls) (Addendum # 2)	140.00	LF	\$	\$

BIDDER (FIRM NAME) \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

BID "A" (ADDENDUM #2)

**BID FORM**  
(Submit in Triplicate)

**BID "A"**

**IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA**

**BID "A" BASED ON COMPLETION OF 200 Calendar Days  
ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
18.	400-2-2	Class II Concrete (Endwalls) (includes reinforced steels) (Addendum # 2)	28.00	CY	\$	\$
19.	400-1-15	Class I Concrete (OCS Concrete Pads and Endwall for 30" PVC, includes reinforcing steels) (Addendum # 2)	8.00	CY	\$	\$
20.	425-1-361	Inlets (Curb) (Type P-6) (<10')	30.00	EA	\$	\$
21.	425-1-549	Inlet (Dt Bot) (Type D Modified) (<10') Outfall Control Structure	3.00	EA	\$	\$
22.	430-174-101	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000) (24") (Addendum # 2)	166.00	LF	\$	\$
23.	430-174-102	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000) (30") (Addendum # 2)	222.00	LF	\$	\$
24.	430-175-102-MC	Pipe Storm Sewer Culv (ACCOMP) (36")	71.00	LF	\$	\$
25.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP) (42")	44.00	LF	\$	\$
26.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP) (48")	384.00	LF	\$	\$
27.	430-175-104	Pipe Storm Sewer Culv (RCP) (60") (Addendum # 2)	388.00	LF	\$	\$
28.	430-175-104-MC	Pipe Storm Sewer Culv (ACCOMP) (60")	49.00	LF	\$	\$
29.	430-175-201	Pipe Storm Sewer Culv (ERCP) (12"x18")	1,185.00	LF	\$	\$
30.	430-175-201	Pipe Storm Sewer Culv (ERCP) (14"x23")	680.00	LF	\$	\$
31.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(42") (1/2 Section Riser) 6' Height	2.00	EA	\$	\$
32.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(48") (1/2 Section Riser) 6' Height	1.00	EA	\$	\$
33.	430-175-204-MC	Pipe Storm Sewer Culv (ACCOMP) (54") (1/2 Section Riser) 6' Height	9.00	EA	\$	\$
34.	430-175-205-MC	Pipe Storm Sewer Culv (ACCOMP)(72") (1/2 Section Riser) 6' Height	1.00	EA	\$	\$
35.	430-982-625	Mitered End Section, Optional - Elliptical/ 14"x23"	15.00	EA	\$	\$
36.	430-984-129	Mitered End Section, Optional - Round/24"	8.00	EA	\$	\$
37.	430-984-133	Mitered End Section, Optional - Round/30"	7.00	EA	\$	\$

BIDDER (FIRM NAME) \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

BID "A" (ADDENDUM #2)

Page 2



**BID FORM**  
(Submit in Triplicate)

BID "A"

IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA

**BID "A" BASED ON COMPLETION OF 200 Calendar Days**  
**ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
38.	515-2-301	Pedestrian/Bicycle Railing (Aluminum) (Addendum # 2)	237.00	LF	\$	\$
39.	520-1-8	Type AB (Special) Curb & Gutter	1,050.00	LF	\$	\$
40.	520-1-10	Type F Curb & Gutter	11,296.00	LF	\$	\$
41.	522-1	4" Concrete Sidewalk	6,276.00	SY	\$	\$
42.	524-MC	Concrete Ditch Pavement - Non-Reinforced - Fabric Formed Concrete Mat - 8" Filter Points	582.00	SY	\$	\$
43.	530-3-4	Rip-Rap (Rubble) (Ditch Lining)	176.00	TN	\$	\$
44.	908-104-1	Contractor's Sediment and Erosion Control Includ's Dewatering/Sump/Pipe/Spreader, Swale,etc.	1.00	LS	\$	\$
<b>SUBTOTAL ROADWAY</b>						\$
45.	700-20-11	Sign Single Post, <12 S.F. (Addendum #2)	31.00	EA	\$	\$
46.	706-3	Reflective Pavement Marker, All Colors	326.00	EA	\$	\$
47.	710-12-290	Reflective Paint (Island Nose) (Yellow) (Addendum #2)	242.00	SF	\$	\$
48.	711-11-160	Pavement Messages, Thermoplastic (Bike Lane Markings) (Addendum # 2)	19.00	EA	\$	\$
49.	711-11-170	Directional Arrows, Thermoplastic (Addendum # 2)	19.00	EA	\$	\$
50.	711-11-251	Skip Traffic Stripe, 6'-10' Yellow, Thermoplastic, 6" (Addendum #2)	340.00	LF	\$	\$
51.	711-11-222	Solid Traffic Stripe, 8" Yellow, Thermoplastic	785.00	LF	\$	\$
52.	711-11-224	Solid Traffic Stripe, 18" Yellow, Thermoplastic	531.00	LF	\$	\$
53.	711-11-121	Solid Traffic Stripe, 6" White, Thermoplastic	11,251.00	LF	\$	\$
54.	711-11-221	Solid Traffic Stripe, 6" Yellow, Thermoplastic	10,054.00	LF	\$	\$
54A	711-11-123	Solid Traffic Stripe, 12" White, Thermoplastic (Addendum # 2)	45.00	LF	\$	\$
54B	711-11-125	Solid Traffic Stripe, 24" White, Thermoplastic (Stop Bar) (Addendum # 2)	5.00	LF	\$	\$
<b>SUBTOTAL SIGNING AND STRIPING</b>						\$

BIDDER (FIRM NAME) \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

BID "A" (ADDENDUM #2)

Page 3

**BID FORM**  
(Submit in Triplicate)

**BID "A"**

**IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA**

**BID "A" BASED ON COMPLETION OF 200 Calendar Days  
ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
55.	715-2-11	Lighting Conduit (Electrical, 4" PVC DR 18, Color white) (Addendum # 2)	233.00	LF	\$	\$
<b>SUBTOTAL LIGHTING</b>						\$
56.	570-1-1	Performance Turf (Hydroseed)	12,551.00	SY	\$	\$
57.	570-1-2	Performance Turf (Bahia Sod)	48,896.00	SY	\$	\$
<b>SUBTOTAL LANDSCAPING</b>						\$
58.		3" PVC Casing (purple, reclaim water)	168.00	LF	\$	\$
59.		12" Ductile Iron Pipe (reclaim water)	98.00	LF	\$	\$
60.		12" Caps/Plugs	2.00	EA	\$	\$
61.		Joint Restraints	4.00	EA	\$	\$
<b>SUBTOTAL UTILITY</b>						\$
<b>DISCRETIONARY WORK</b>						\$ 180,000.00
<b>TOTAL BID "A" PRICE 200 Calendar Days</b>						\$

BIDDER (FIRM NAME) \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

BID "A" (ADDENDUM #2)

**BID FORM**  
(Submit in Triplicate)

BID "B"

IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA

**BID "B" BASED ON COMPLETION OF 150 Calendar Days**  
**ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
1.	101-1	Mobilization	1.00	LS	\$	\$
2.	102-1-1	Maintenance of Traffic	1.00	LS	\$	\$
3.	104-12	Turbidity Barrier, Staked	200.00	LF	\$	\$
4.	104-10-3	Sediment Barrier (Incl's Silt Fence and Synthetic Bales)	12,897.00	LF	\$	\$
5.	104-15	Soil Tracking Prevention Device (Addendum #2)	2.00	EA	\$	\$
6.	104-16	Rock Bags	600.00	EA	\$	\$
7.	110-1-1	Clearing & Grubbing	25.00	AC	\$	\$
8.	120-1	Regular Excavation (Includes Ponds) (Addendum # 2)	59,117.00	CY	\$	\$
8A	120-1-MC	Excavation (Rocks or Cemented Sand) (Addendum # 2)	1,200.00	CY	\$	\$
9.		<b>Addendum # 2 removes line 9</b>				
10.	120-4	Excavation, Subsoil (Roadway)	2,215.00	CY	\$	\$
11.	120-6	Embankment (Regular)	29,364.00	CY	\$	\$
12.	160-4	12" Type B Stabilization (LBR 60)	26,287.00	SY	\$	\$
13.	285-706	8" Limerock, LBR 100 (Addendum # 2)	22,311.00	SY	\$	\$
<b>BID EITHER # 13 or # 13A (not both)</b>						
13A	285-706	9" Graded Aggregate Base LBR 120 (Addendum #2)	22,311.00	SY	\$	\$
14.	331-2-MC	2" Type S-1 Asphalt Concrete FDOT 2000 (Addendum #2)	2,454.00	TN	\$	\$
15.	337-7-MC	1" Asphaltic Friction Course (FC III) FDOT 2000 (Addendum # 2)	1,228.00	TN	\$	\$
16.	410-70-MC	Single Barrel - 4'x10' Box Culvert (Includes Wingwalls, Cutoff Walls and Headwalls) (Addendum # 2)	136.00	LF	\$	\$
17.	410-70-MC	Double Barrel - 4'x10' Box Culvert (includes Wingwalls, Cutoff Walls and Headwalls) (Addendum # 2)	140.00	LF	\$	\$

BIDDER (FIRM NAME): \_\_\_\_\_

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BID "B" (ADDENDUM # 2)

Page 1

**BID FORM**  
(Submit in Triplicate)

**BID "B"**

**IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA**

**BID "B" BASED ON COMPLETION OF 150 Calendar Days  
ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
18.	400-2-2	Class II Concrete (Endwalls) (includes reinforced steels) (Addendum # 2)	28.00	CY	\$	\$
19.	400-1-15	Class I Concrete (OCS Concrete Pads and Endwall for 30" PVC, includes reinforcing steels) (Addendum # 2)	8.00	CY	\$	\$
20.	425-1-361	Inlets (Curb) (Type P-6) (<10')	30.00	EA	\$	\$
21.	425-1-549	Inlet (Dt Bot) (Type D Modified) (<10') Outfall Control Structure	3.00	EA	\$	\$
22.	430-174-101	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000) (24") (Addendum # 2)	166.00	LF	\$	\$
23.	430-174-102	Pipe Storm Sewer Culv (PVC C900 DR-18, or A2000) (30") (Addendum # 2)	222.00	LF	\$	\$
24.	430-175-102-MC	Pipe Storm Sewer Culv (ACCOMP) (36")	71.00	LF	\$	\$
25.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP) (42")	44.00	LF	\$	\$
26.	430-175-103-MC	Pipe Storm Sewer Culv (ACCOMP) (48")	384.00	LF	\$	\$
27.	430-175-104	Pipe Storm Sewer Culv (RCP) (60") (Addendum # 2)	388.00	LF	\$	\$
28.	430-175-104-MC	Pipe Storm Sewer Culv (ACCOMP) (60")	49.00	LF	\$	\$
29.	430-175-201	Pipe Storm Sewer Culv (ERCP) (12"x18")	1,185.00	LF	\$	\$
30.	430-175-201	Pipe Storm Sewer Culv (ERCP) (14"x23")	680.00	LF	\$	\$
31.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(42") (1/2 Section Riser) 6' Height	2.00	EA	\$	\$
32.	430-175-203-MC	Pipe Storm Sewer Culv (ACCOMP)(48") (1/2 Section Riser) 6' Height	1.00	EA	\$	\$
33.	430-175-204-MC	Pipe Storm Sewer Culv (ACCOMP) (54") (1/2 Section Riser) 6' Height	9.00	EA	\$	\$
34.	430-175-205-MC	Pipe Storm Sewer Culv (ACCOMP)(72") (1/2 Section Riser) 6' Height	1.00	EA	\$	\$
35.	430-982-625	Mitered End Section, Optional - Elliptical/ 14"x23"	15.00	EA	\$	\$
36.	430-984-129	Mitered End Section, Optional - Round/24"	8.00	EA	\$	\$
37.	430-984-133	Mitered End Section, Optional - Round/30"	7.00	EA	\$	\$

BIDDER (FIRM NAME) \_\_\_\_\_

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BID "B" (ADDENDUM # 2)

Page 2

**BID FORM**  
(Submit in Triplicate)

BID "B"

IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA

**BID "B" BASED ON COMPLETION OF 150 Calendar Days**  
**ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
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39.	520-1-8	Type AB (Special) Curb & Gutter	1,050.00	LF	\$	\$
40.	520-1-10	Type F Curb & Gutter	11,296.00	LF	\$	\$
41.	522-1	4" Concrete Sidewalk	6,276.00	SY	\$	\$
42.	524-MC	Concrete Ditch Pavement - Non-Reinforced - Fabric Formed Concrete Mat - 8" Filter Points	582.00	SY	\$	\$
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<b>SUBTOTAL ROADWAY</b>						\$
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46.	706-3	Reflective Pavement Marker, All Colors	326.00	EA	\$	\$
47.	710-12-290	Reflective Paint (island Nose) (Yellow) (Addendum #2)	242.00	SF	\$	\$
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<b>SUBTOTAL SIGNING AND STRIPING</b>						\$

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BID "B" (ADDENUM # 2)

**BID FORM**  
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**BID "B"**

**IFB# 11-1949-DS ----- EL CONQUISTADOR PARKWAY EXTENSION IIA**

**BID "B" BASED ON COMPLETION OF 150 Calendar Days  
ADDENDUM # 2**

LINE NO.	ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
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			<b>SUBTOTAL LIGHTING</b>			\$
56.	570-1-1	Performance Turf (Hydroseed)	12,551.00	SY	\$	\$
57.	570-1-2	Performance Turf (Bahia Sod)	48,896.00	SY	\$	\$
			<b>SUBTOTAL LANDSCAPING</b>			\$
58.		3" PVC Casing (purple, reclaim water)	168.00	LF	\$	\$
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60.		12" Caps/Plugs	2.00	EA	\$	\$
61.		Joint Restraints	4.00	EA	\$	\$
			<b>SUBTOTAL UTILITY</b>			\$
<b>DISCRETIONARY WORK</b>						\$ 180,000.00
<b>TOTAL BID "B" PRICE 150 Calendar Days</b>						\$

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BID "B" (ADDENDUM # 2)