

TECHNICAL SPECIFICATIONS

BIG CARLOS PASS UTILITIES



LEE COUNTY
SOUTHWEST FLORIDA

Lee County Board of County Commissioners
P.O. Box 398
Fort Myers, Florida 33902-0398
(239) 533-2111

Prepared by:

JOHNSON
ENGINEERING

2122 Johnson Street
Fort Myers, Florida 33901
(239) 334-0046
E.B. 642

David Brice Trouteaud, P.E.
Johnson Engineering, Inc.
FL License No. 69783

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LEE COUNTY UTILITIES
BIG CARLOS PASS UTILITIES
TECHNICAL SPECIFICATIONS

REFERENCE DOCUMENTS

The Contractor shall complete all work in conformance with the Lee County Utilities Design Manual, latest revision, and as provided herein these technical specifications. The latest version of the Design Manual is available at the Lee County website: <http://www.leegov.com/utilities/designmanual>

Contractor shall complete all applicable work in conformance with the latest version of the FDOT indices: <http://www.fdot.gov/design/standardplans/current/default.shtm>

All utility related materials shall comply with Lee County Utility's Approved Materials List: <http://www.leegov.com/utilities/design-manual/approved-materials>

**LEE COUNTY UTILITIES
WATER AND WASTEWATER TECHNICAL SPECIFICATIONS**

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PERMITS

SECTION 01 11 00
SUMMARY OF WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Description of Work
- B. Constraints
- C. Work by Others
- D. CONTRACTOR's Use of Site
- E. Work Sequence
- F. Owner Occupancy

1.2 DESCRIPTION OF WORK

General: The Work to be done under this Contract consists of the utility relocation in connection with the Big Carlos Pass Utility Improvements project. The Work for the water system portion of this project includes abandoning and grouting existing subaqueous water main and installing a new water main via aerial crossing along a new bridge crossing Bid Carlos Pass. The water portion includes furnishing and installing approximately 412 LF of 12" PVC C900 DR18 Water main, 2,363 LF of 12" DIP Pressure Class 250 water main and 2 water main connections. This includes all of the required hangers and accessories to have a functioning water main.

The Work for the force main system portion of this project includes relocating 115 LF of 8" PVC DR14 force main, 1 connection to the existing 8" force main, relocate 288 LF of 8" gravity sewer pipe, install 2 manholes and 1 connection to the existing sanitary sewer.

- A. The Work includes:
 - 1. Furnishing of all labor, material, superintendence, plant, power, light, heat, fuel, water, tools, appliances, equipment, supplies, services and other means of construction necessary or proper for performing and completing the Work.
 - 2. Sole responsibility for adequacy of plant and equipment.
 - 3. Maintaining the Work area and site in a clean and acceptable manner.

4. Maintaining existing facilities in service at all times except where specifically provided for otherwise herein.
 5. Protection of finished and unfinished Work.
 6. Repair and restoration of Work damaged during construction.
 7. Furnishing as necessary proper equipment and machinery, of a sufficient capacity, to facilitate the Work and to handle all emergencies normally encountered in Work of this character.
 8. Furnishing, installing, and protecting all necessary guides, track rails, bearing plates, anchor and attachment bolts, and all other appurtenances needed for the installation of the devices included in the equipment specified. Make anchor bolts of appropriate size, strength and material for the purpose intended. Furnish substantial templates and shop drawings for installation.
- B. Implied and Normally Required Work: It is the intent of these Specifications to provide the OWNER with complete operable systems, subsystems and other items of Work. Any part or item of Work which is reasonably implied or normally required to make each installation satisfactorily and completely operable is deemed to be included in the Work and the Contract Amount. All miscellaneous appurtenances and other items of Work incidental to meeting the intent of these Specifications are included in the Work and the Contract Amount even though these appurtenances may not be specifically called for in these Specifications.
- C. Quality of Work: Regard the apparent silence of the Contract Documents as to any detail, or the apparent omission from them of a detailed description concerning any Work to be done and materials to be furnished as meaning that only the best general practice is to prevail and that only materials and workmanship of the best quality are to be used. Interpretation of these specifications will be made upon this basis.

1.3 CONSTRAINTS

- A. The Contract Documents are intended to allow the CONTRACTOR flexibility in construction of the Work, however, the following constraints apply:
1. The reconstruction of the bridge will determine the schedule of the water main installation across the bridge.

1.4 WORK BY OTHERS

- A. Work on the Project, which may take place concurrently with this CONTRACT and which is excluded from this CONTRACT, is as follows:
1. Work shown within the roadway widening plans.

1.5 CONTRACTOR'S USE OF SITE

- A. In addition to the requirements of the General Conditions, limit use of site and premises for work and storage to allow for the following:
 - 1. Coordination of the Work under this CONTRACT with the work of the other contractors where Work under this CONTRACT encroaches on the Work of other contractors.
 - 2. OWNER occupancy and access to operate existing facilities.
 - 3. Coordination of site use with ENGINEER.
 - 4. Responsibility for protection and safekeeping of products under this CONTRACT.
 - 5. Providing additional off site storage at no additional cost to OWNER as needed.

1.6 WORK SEQUENCE

- A. Construct Work in stages to accommodate OWNER's use of premises during construction period and in accordance with the limitations on the sequence of construction specified. Coordinate construction schedules and operations with ENGINEER.
- B. Coordinate Work of all subcontractors.

1.7 OWNER OCCUPANCY

- A. OWNER will occupy premises during entire period of construction in order to maintain normal operations. Cooperate with OWNER's representative in all construction operations to minimize conflict, and to facilitate OWNER usage.
- B. Conduct operations so as to inconvenience the general public in the least.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

- A. Starting Work: Start Work within 10 days following the date stated in the Notice to Proceed and execute with such progress as may be required to prevent delay to other contractors or to the general completion of the project. Execute Work at such items and in or on such parts of the project, and with such forces, material and equipment, as to complete the Work in the time established by the Contract. At all times, schedule and

direct the Work so that it provides an orderly progression to completion within the specified time for completion.

END OF SECTION

SECTION 01 22 13

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Explanation and Definitions
- B. Measurement
- C. Payment
- D. Schedule of Values

1.2 EXPLANATION AND DEFINITIONS

- A. The following explanation of the Measurement and Payment for the bid form items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the CONTRACTOR of the necessity of furnishing such as a part of the Contract.

1.3 MEASUREMENT

- A. The quantities set forth in the bid form are approximate and are given to establish a uniform basis for the comparison of bids. The OWNER reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accord with the terms of the Contract.

1.4 PAYMENT

- A. Payment shall be made for the items listed on the Bid Form on the basis of the work actually performed and completed, such work including but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, clean up, restoration of disturbed areas, and all other appurtenances to complete the construction and installation of the work as shown on the drawings and described in the specifications.
- B. Unit prices are used as a means of computing the final figures for bid and Contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.

1.5 SCHEDULE OF VALUES

- A. Approval of Schedule: Submit for approval a preliminary schedule of values, in duplicate, for all of the Work. Prepare preliminary schedule in accordance with the

General Conditions. Submit preliminary schedule of values within 10 calendar days after the Effective Date of the Agreement. Submit final schedule of values in accordance with the General Conditions.

- B. Format: Utilize a format similar to the Table of Contents of the Project Specifications. Identify each line item with number and title of the major specification. Identify site mobilization, bonds and insurance. Include within each line item, a direct proportional amount of CONTRACTOR's overhead profit.
- C. Revisions: With each Application for Payment, revise schedule to list approved Change Orders.

PART 2 EXECUTION

2.1 MEASUREMENT AND PAYMENT

- A. Payment shall be made on the basis of work actually performed completing each item in the Bid, such work including, but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, cleanup, and all other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the drawings and described in the specifications. Payment for each item includes compensation for cleanup and restorations. Cleanup and surface restorations (including pavement replacement) will be considered as ten percent (10%) of each pay item and complete payment will not be made until cleanup, restorations and as-builts are completed.

GENERAL

1. Record Drawings: The cost for preparation of the record drawings survey and construction layout shall be made at the Contract lump sum price. This item includes material, labor and certification to prepare the "Record Drawing", field verification of existing underground facilities, construction stakeout of the proposed pipe and to survey the new pipe after it has been installed. Prior to acceptance of the project by the Board of County Commissioners, the Contractor shall submit two prints, and one set of computer disk copies of AutoCAD formatted drawings marked as "Drawings of Record" which include the original design and all deviations that occurred during construction in accordance with Lee County regulations. The record drawings shall include vertical and horizontal alignment of all water mains, valves, tees, bends, reducers, air release valves and other pertinent structures. Pipe runs in excess of 500 feet without fittings shall include vertical alignment and grade information. Record drawings shall be certified by a Professional Land surveyor licensed in the State of Florida. All elevation to be based on NAVD '88 vertical datum and all horizontal coordinates in Florida West State Plane coordinates.

2. Mobilization: Payment for mobilization will be made at the Contract lump sum price for the contractor's cost for mobilization, demolition, survey, insurance, audio-video tape of existing conditions, preparing a field office, identifying and securing a staging area and other applicable administrative charges as outlined in the Contract Documents and specified herein. Mobilization lump sum price shall not exceed two percent (2%) of the total Bid Amount. Payment for mobilization will be twenty-five percent (25%) of the lump sum amount to be included with the final payment request.
3. Maintenance of Traffic: Payment for maintenance of traffic will be made for at the Contract lump sum price and includes the furnishing and installation of labor, equipment and materials to provide temporarily traffic control, temporary surfaces and pavements, preparation of maintenance of traffic plans, and other such cost that may be necessary to properly maintain traffic throughout the entire construction site including provisions for emergency vehicles. This item includes the traffic control devices, flag men to direct traffic and the preparation and submittal of the Maintenance of Traffic plan to LCDOT for approval. All maintenance of traffic shall be in accordance with the approved Lee County Right of Way permit and in accordance with applicable FDOT/LCDOT standard Indexes. It also includes road/lane closures of local streets with minimal delay to traffic. All emergency services shall be notified well in advance of road closures.
4. Preconstruction Audio/Video Recording: Measurement and payment for pre-construction audio/video recording shall be made at the contract Lump Sum price. The work includes that necessary to document existing conditions on public and private property. The Contractor may be required to restore private properties to conditions better than existing, at no additional cost to the County, if the Contractor fails to sufficiently document existing conditions.
5. Record Drawings: The cost for preparation of the record drawings survey and construction layout shall be made at the Contract lump sum price. This item includes material, labor and certification to prepare the "Record Drawing", field verification of existing underground facilities, construction stakeout of the proposed pipe and to survey the new pipe after it has been installed. Prior to acceptance of the project by the Board of County Commissioners, the Contractor shall submit two prints, and one set of computer disk copies of AutoCAD formatted drawings marked as "Drawings of Record" which include the original design and all deviations that occurred during construction in accordance with Lee County regulations. The record drawings shall include vertical and horizontal alignment of all water mains, valves, tees, bends, reducers, air release valves and other pertinent structures. Pipe runs in excess of 500 feet without fittings shall include vertical alignment and grade information. Record drawings shall be certified by a Professional Land surveyor licensed in the State of Florida. All elevation to be based on NAVD '88 vertical datum and all horizontal coordinates in Florida West State Plane coordinates.

WATER SYSTEM

6. Furnish and Install Water Main Pipelines: Payment for furnishing and installing water main pipelines (various types and sizes) will be made at the Contract unit price per lineal foot for the pipe in place. This item includes all necessary fittings, connections to existing mains, labor, equipment and materials for the furnishing and laying of the pipe, signs, maintenance of traffic, dewatering, compaction, pipe bedding, backfilling, sheeting, restrained joint piping, mylar detectable tape, polyethylene sleeve, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered including rock, backfill, replacement of grass, sod, clearing and grubbing, pavement, driveways, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, clean-up, sterilization, and tests. Measurement of the pipe shall be to the nearest foot along the centerline including the lengths of manholes, valves and fittings. Lineal footage measurement shall be horizontal. Cuts shall be measured from existing grade to the invert elevation of the water main.
7. Furnish and Install Gate Valves: Payment for furnishing and installing gate valves (various sizes) will be made at the appropriate Contract unit price per each valve acceptably installed. This item includes the gate valve, valve stem, ID Tags, valve box, and all necessary labor, all necessary restoration to equal or better conditions, materials and equipment for installation, including valve stem and valve box extensions, joints and concrete pads. This item also includes the installation of base material below the valve in accordance with the detail shown in the Plans.
8. Aerial Crossing: Payment for furnishing and installing aerial crossing will be made as follows:
 - a. 12" DIP Flanged, Coated and Painted: Payment will be made at the appropriate Contract unit price per linear foot for pipe in place. This item includes all necessary labor, materials, and equipment for furnishing and installing aerial crossing coated and painted in accordance with the project Drawings and Lee County Standards.
 - b. Hangers and Accessories: Payment will be made at the appropriate Contract unit price per each hanger with accessories acceptably installed in accordance with the project Drawings and Lee County Standards.
9. Furnish and Install and Install Air Release Valves: Payment for furnishing and installing automatic air release valves will be made at the appropriate Contract unit price per each unit acceptably installed. This item includes all necessary labor, materials and equipment for installation, including the tapping saddle, corporation stop, polytubing, brass elbows, brass piping, ball valve, schedule 80 PVC pipe, air release valve fixture, vented pedestal housing with stainless steel post, an odor control bio-filter and bedding stone in accordance with the detail shown in the Plans. When ordered in writing by the Engineer, payment will be made for additional automatic air release valve assemblies installed in the work

due to field conditions. All automatic air release valves installed in the work not shown on the plans and not ordered by the Engineer in writing will not be measured for payment.

10. Furnish and Install Water Main Interconnections: Payment for furnishing and installing the water main interconnections will be made at the Contract price per each interconnection acceptably installed. This item includes all labor, equipment, and materials to install all necessary pipe, fittings, connections, tapping sleeve and valve with valve box, field measurements, protection of existing facilities, excavation, pipe bedding, dewatering, compaction, surface restoration, testing, cleanup and all other work for a complete installation.
11. Grout and Abandon Water Main: Payment to grout and abandon 12-inch water main and placing out of service shall be paid at the appropriate Contract Unit price per linear foot and includes, but is not be limited to: all labor, materials and equipment necessary to place all grout, dewatering, any pumping of water, pumping of grout, protection of existing utilities and facilities, miscellaneous excavation related items including rock, backfilling, compaction, bedding, fittings, erosion and sedimentation devices, driveways, culverts and storm sewers, mailboxes, sidewalks and other surface materials not specifically designated in the Bid, cleanup, testing, any testing required by the regulatory agencies, plugs and incidentals in place an all other required work.

The method of grout installation shall be able to meet the requirement of completely filling the existing water mains and any voids adjacent to the lines. The methods shall provide for the release of air. When intermediate points are required to be constructed for the grouting of the mains, they shall be a part of placing the system out of service.

Each section of water main to be placed out of service shall be first plugged with a cement mortar mix at least two pipe diameters in thickness. A PVC grout/vent tube shall be grouted in place at the top of the pipe during installation of the cement mortar plug. The grout/vent tube shall not extend more than 4 feet past the cement mortar plug into the line to be abandoned. The vent tube shall be extended at least 3 feet above the invert of the line. An approved grout mix shall be **CONTINUOUSLY** pumped through the grout tube until grout mix returns out of vent tube. The head pressure needed to make cement return through the vent tube shall be maintained for at least 10 minutes after return occurs.

SEWER SYSTEM

12. Relocate Force Main: Payment to relocate force main includes the following:
 - a. 8" PVC DR14 will be made at the Contract unit price per lineal foot for the pipe in place. This item includes all necessary fittings, connections to existing mains, labor, equipment and materials for the furnishing and laying of the pipe, signs, maintenance of traffic, dewatering, compaction, pipe bedding, backfilling, sheeting, restrained joint piping, mylar detectable tape,

polyethylene sleeve, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered including rock, backfill, replacement of grass, sod, clearing and grubbing, pavement, driveways, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, clean-up, sterilization, and tests. Measurement of the pipe shall be to the nearest foot along the centerline including the lengths of manholes, valves and fittings. Lineal footage measurement shall be horizontal. Cuts shall be measured from existing grade to the invert elevation of the water main.

- b. Connect to Existing 8" Force Main will be made at the Contract unit price per each connection acceptably installed.
13. Relocate Gravity Sewer: Payment for relocating gravity sewer includes the following:
- a. 8" Gravity Sewer: Payment for furnishing and installing 8" gravity sewer will be made at the appropriate Contract unit price per linear foot acceptably installed. This item includes all necessary fittings, connections to existing mains, labor, equipment and materials for the furnishing and laying of the pipe, signs, maintenance of traffic, dewatering, silt fence, turbidity barriers, erosion protection, compaction, pipe bedding, backfilling, sheeting, restrained joint piping, mylar detectable tape, polyethylene sleeve, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered including rock, backfill, replacement of grass, sod, clearing and grubbing, pavement, driveways, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, clean-up, sterilization, and tests. Measurement of the pipe shall be to the nearest foot along the centerline including the lengths of manholes, valves and fittings. Lineal footage measurement shall be horizontal. Cuts shall be measured from existing grade to the invert elevation of the sewer.
 - b. Manholes: Payment for furnishing and installing manholes will be made at the appropriate Contract unit price per each manhole acceptably installed. This item shall include, but is not limited to, all necessary labor, materials and equipment to furnish and install the manhole, concrete work, boot connections, manhole invert, drop connections, coatings, ring & cover, incidentals, adjustments, protection of existing utilities and facilities, all excavation, including rock, backfilling, dewatering, compaction, bedding material, culverts and storm sewers, and other surface material not specifically designated in the Bid, cleanup, testing, and all other work for a complete installation.
 - c. Connect to existing sanitary sewer: Payment for furnishing and installing connection to existing sanitary sewer will be made at the appropriate Contract unit price per connection acceptably installed in accordance with the details in the Plans and Lee County Standards.

14. Grout and Abandon Force Main: Payment to grout and abandon 8-inch force main and placing out of service shall be paid at the appropriate Contract Unit price per linear foot and includes, but is not be limited to: all labor, materials and equipment necessary to place all grout, dewatering, any pumping of water, pumping of grout, protection of existing utilities and facilities, miscellaneous excavation related items including rock, backfilling, compaction, bedding, fittings, erosion and sedimentation devices, driveways, culverts and storm sewers, mailboxes, sidewalks and other surface materials not specifically designated in the Bid, cleanup, testing, any testing required by the regulatory agencies, plugs and incidentals in place an all other required work.

The method of grout installation shall be able to meet the requirement of completely filling the existing force mains and any voids adjacent to the lines. The methods shall provide for the release of air. When intermediate points are required to be constructed for the grouting of the mains, they shall be a part of placing the system out of service.

Each section of force main to be placed out of service shall be first plugged with a cement mortar mix at least two pipe diameters in thickness. A PVC grout/vent tube shall be grouted in place at the top of the pipe during installation of the cement mortar plug. The grout/vent tube shall not extend more than 4 feet past the cement mortar plug into the line to be abandoned. The vent tube shall be extended at least 3 feet above the invert of the line. An approved grout mix shall be **CONTINUOUSLY** pumped through the grout tube until grout mix returns out of vent tube. The head pressure needed to make cement return through the vent tube shall be maintained for at least 10 minutes after return occurs.

END OF SECTION

(NO TEXT FOR THIS PAGE)

SECTION 09 96 35
IET COATING SYSTEM

PART 1 GENERAL

1.1 SCOPE OF WORK

- A. This section provides details for furnishing and installing the Integrated Environmental Technologies (IET) coating system where shown on the drawings for protection of concrete structures against hydrogen sulfide corrosion. Coating materials shall be as manufactured by Integrated Environmental Technologies or approved equal. Installation shall be performed by workers experienced in the application of the coating to be used.

PART 2 PRODUCTS

2.1 IET COATING SYSTEM

- A. The IET Coating System shall be as distributed by Integrated Environmental Technologies, Santa Barbara, CA, or equal.
- B. Polymorphic Resin shall be a 100% solids, two-component, highly modified polyester resin system, exhibiting no adhesion-interfering shrinkage upon curing. Resin shall cure rapidly within fifteen minutes to one hour without the use of heat or cooling at surface temperatures ranging from -30 degrees Fahrenheit to over +150 degrees. Excellent resistance to a broad range of corrosive chemicals, including sulfuric acid created by hydrogen sulfide gas as well as other chemicals typically found in sanitary sewers, and impact and abrasion attack shall be provided.

PART 3 EXECUTION

3.1 IET COATING

- A. All pipes in service shall be plugged or bypassed before any work is started on the structure. No debris is to be flushed down the line.
- B. Anyone entering the structure must conform to all OSHA requirements for "Confined Space Entry" equipment and permitting.
- C. Surface preparation shall meet the requirements of IET Systems Data Sheets on Concrete Preparation and interior surfaces of manhole shall be sound, porous, dry, and free of dust, dirt, oil, grease and other contaminants prior to application of lining.

- D. Interior surface of structure must be pressure washed at 5,000 psi and must be abrasive-blasted with an approved abrasive material (see LCU Approved Materials List) to remove all loose patching, old coatings and any contamination in the concrete. No silica sand shall be used.
1. "New" structures shall be abrasive-blasted to remove all oils and patch mud and to open pin holes and expose aggregate.
 2. "Rehab" structures shall be abrasive-blasted to remove all loose patching, old coatings, and any contamination that penetrated the concrete. The finished interior of the structure shall be gray. The exposed invert/floor shall also be coated. Where there is severe deterioration of the mortar, place new concrete to match the original interior dimensions after abrasive-blasting and removal of all loose material and by-products of corrosion. Restore invert/floor to the original elevation.
 3. Vacuum to remove all abrasives and debris.
- E. Repair all leaks by injecting grout using an approved grout (see LCU Approved Materials List). Hydraulic cement shall not be used to stop any water leaks.
- F. Clean and remove dust material with pressure washing for maximum adhesion. Blow dry concrete at 250 cfm with 120 psi.
- G. Apply IET Systems Coating by the use of the IET Systems Spray Unit and IET Systems Spincaster. Apply IET coating at least three different intervals – prime coat, intermediate coat and finish coat, per IET Systems manufacturer instructions and specifications. The total thickness of the IET coating shall be at least 125 mils.
- H. Inspect lining system for holes, cracks and pinholes. Take particular care to check lining over brick, block, heavy spalled surfaces, and other very rough surfaces and locate holes in the lining caused by voids in bricks, block, concrete and structure joints. Fill voids and holes in accordance with the lining system manufacturer's instructions.
- I. Provide at a minimum a five (5) year unlimited warranty on all workmanship and products. The work includes the surface preparation and application of the IET coating system, shall protect the structure for at least five (5) years from all leaks, and from failure due to corrosion from exposure to corrosive gases such as hydrogen sulfide.

END OF SECTION

PROCUREMENT MANAGEMENT DEPARTMENT
COST ESTIMATE - AERIAL CROSSING OPTION

COMPANY NAME: _____

SOLICITATION: _____

Having carefully examined the Contract Documents, Contractor/Vendor proposes to furnish the following which meeting these specifications.

PRICING

Pricing shall be inclusive of all labor, equipment, supplies, overhead, profit, material, and any other incidental costs required to perform and complete all work as specified in the Contract Documents. All Unit Prices will be bid at the nearest whole penny. The Excel document contains formulas for convenience, however it is the Contractor's/Vendor's responsibility to verify all pricing and calculations are CORRECT. Lee County is not responsible for errors in formulas or calculations contained within Excel document(s).

In the event there is a discrepancy between a subtotal or total amount and the unit prices and extended amounts, the unit prices will prevail and the corrected extension(s) and total(s) will be considered the price.

The County will only accept bids submitted on bid forms provided by the County. Bids submitted on other forms, other than those provided by the County, will be deemed non-responsive and ineligible for award.

PLEASE ENSURE you have provided a printed copy of the Bid Schedule with your hard copy submission packages and provided the excel version with your digital submission package.

BIG CARLOS PASS UTILITIES - 100% PLANS

GENERAL

| Item | Description | Unit of Measure | Estimated Quantity | Unit Price | Extended Amount |
|------|--|-----------------|--------------------|------------|-----------------|
| 1 | Mobilization (Not to Exceed 2% of Total Bid Amount) | LS | 1 | | \$ - |
| 2 | Performance and Payment Bond Premiums and Insurance (Not to exceed 3% of Total Bid Amount) | LS | 1 | | \$ - |
| 3 | Maintenance of Traffic | LS | 1 | | \$ - |
| 4 | Preconstruction Audio/Video Recording | LS | 1 | | \$ - |
| 5 | Record Drawings | LS | 1 | | \$ - |

WATER SYSTEM

| Item | Description | Unit of Measure | Estimated Quantity | Unit Price | Extended Amount |
|------|---|-----------------|--------------------|------------|-----------------|
| 6 | Furnish and Install Water Main Pipelines | | | | |
| a | 12" WM - PVC C900 DR18 | LF | 412 | | \$ - |
| b | 12" WM - DIP Pressure Class 250 | LF | 483 | | \$ - |
| 7 | Furnish and Install Gate Valves | | | | |
| a | 12" Gate Valve | EA | 2 | | \$ - |
| 8 | Aerial Crossing | | | | |
| a | 12" DIP Flanged, Coated, Painted | LF | 1,880 | | \$ - |
| b | Hangers and Accessories | EA | 250 | | \$ - |
| 9 | Furnish and Install Air Release Valves | EA | 1 | | \$ - |
| 10 | Furnish and Install Water Main Interconnections | | | | |
| a | WM Connection | EA | 2 | | \$ - |
| 11 | Grout and Abandon Water Main | | | | |
| a | 12" WM | LF | 2,901 | | \$ - |

SEWER SYSTEM

| Item | Description | Unit of Measure | Estimated Quantity | Unit Price | Extended Amount |
|------|------------------------------------|-----------------|--------------------|------------|-----------------|
| 12 | Relocate Force Main | | | | |
| a | 8" PVC DR14 | LF | 115 | | \$ - |
| b | Connect to existing 8" FM | EA | 1 | | \$ - |
| 13 | Relocate Gravity Sewer | | | | |
| a | 8" Gravity Sewer | LF | 288 | | \$ - |
| b | Manholes | EA | 2 | | \$ - |
| c | Connect to existing sanitary sewer | EA | 1 | | \$ - |
| 14 | Grout and Abandon Force Main | | | | |
| a | 8" FM | LF | 115 | | \$ - |

COST ESTIMATE SUMMARY

| | |
|----------------------|---------------|
| PROJECT TOTAL | \$0.00 |
|----------------------|---------------|

**Quantities are not guaranteed. Final payment will be based on actual quantities.

PROJECT TOTAL:

(Use Words to Write Total)