



City of Tampa

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ADDENDUM 3

Via E-Mail

DATE: February 5, 2020

Contract: 19-C-00057; Davis Islands Water Main Replacement

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

- Item 1 Replace proposal pages P-2R, P-3R and P-4R with the attached pages P-2RR, P-3RR and P-4RR.
- Item 2: Replace pages CP-1 through CP-21 with the attached pages CP-1 through CP-21
- Item 3 Attached is the Summary of Clarifications.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor

WATER - SCHEDULE A

Itemized Bid Sheet

Item	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Price
2100	F&I 4" ductile iron pipe with 5' trench or less	LF	48			
2102	F&I 6" ductile iron pipe (0-5' trench)	LF	3,626			
2103	F&I 6" ductile iron pipe (5+ trench)	LF	239			
2104	F&I 8" ductile iron pipe (0-5' trench)	LF	10			
2106	F&I 12" ductile iron pipe with 5' trench or less	LF	261			
2107	F&I 12" ductile iron pipe with more than 5' trench	LF	40			
2108	F&I 16" ductile iron with more than 5' trench	LF	6,138			
2216	F&I 16" TR Flex® RJ DIP w/TR Flex® fittings at various depths	LF	694			
2600	Cut and plug 3" and smaller in diameter pipe	EA	1			
2601	Cut and plug 4", 6" and 8" diameter pipe	EA	14			
2602	Cut and plug 10", 12" and 16" diameter pipe	EA	13			
3000	F&I 4" wedge-action or flange restraint	EA	13			
3001	F&I 6" wedge-action or flange restraint	EA	195			
3002	F&I 8" wedge-action or flange restraint	EA	6			
3003	F&I 12" wedge-action or flange restraint	EA	11			
3004	F&I 16" wedge-action or flange restraint	EA	100			
3071	Furnish 6" push-on restraint gaskets	EA	86			
3073	Furnish 12" push-on restraint gaskets	EA	13			
3074	Furnish 16" push-on restraint gaskets	EA	171			
4001	F&I 4" ductile iron bends, offsets, sleeves or reducers w/DIP, CIP or PVC	EA	5			
4005	F&I 6" ductile iron bends, offsets, sleeves or reducers w/DIP, CIP or PVC	EA	39			
4006	F&I 6" ductile iron tee w/ DIP, CIP or PVC	EA	11			
4007	F&I 6" ductile iron cross w/ DIP, CIP or PVC	EA	2			
4008	F&I 8" ductile iron plug or cap w/ DIP, CIP or PVC	EA	1			
4009	F&I 8" ductile iron bends, offsets, sleeves or reducers w/ DIP, CIP or PVC	EA	1			
4013	F&I 12" bends, offsets, sleeves or reducers with DIP, CIP or PVC	EA	3			
4017	F&I 16" bends, offset, sleeves or reducers with DIP, CIP or PVC	EA	24			
4018	F&I 16" ductile iron tee with DIP, CIP or PVC	EA	15			
4019	F&I 16" ductile iron cross with DIP or CIP	EA	3			
5000	F&I full fire hydrant assembly on new or existing mains	EA	15			
5200	Remove and salvage of fire hydrant	EA	14			
6001	F&I 4" gate or tapping valve with box on DIP, CIP or PVC	EA	1			
6002	F&I 6" gate or tapping valve with box on DIP, CIP or PVC	EA	31			
6003	F&I 8" gate or tapping valve with box on DIP, CIP or PVC	EA	1			
6004	F&I 12" gate or tapping valve with box on DIP, CIP or PVC	EA	2			
6005	F&I 16" gate or tapping valve with box on DIP, CIP or PVC	EA	1			
6006	F&I 16" plug valve with box on DIP, CIP or PVC	EA	14			
6102	F&I 6" Linestop on Existing Water Main (0-5')	EA	2			
7001	F&I 6" tapping sleeve and make tap	EA	8			
7002	F&I 8" tapping sleeve and make tap	EA	2			
7004	F&I 16" tapping sleeve and make tap	EA	2			
8100	Furnish tap and install 3/4" or 1" meter service on PVC, DIP, or CIP (0-15' HDPE)	EA	19			
8101	Furnish tap and install 3/4" meter service on PVC, DIP or CIP (+15-80' HDPE)	EA	190			

Item	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Price
9200	Furnish, place and compact limerock base	CY	1,317			
9205	Furnish and install asphalt concrete surface Superpave Type SP-12.5	TN	1,738			
9207	Furnish, place, grade and compact Superpave Type SP-9.5 asphaltic concrete overlay	TN	650			
9209	Mechanical milling of asphalt roadways in 1-inch increments	SY-IN	12,215			
9208	Mobilization to perform mechanical milling	EA	1			
9300	Furnish and install Type "D" concrete curb	LF	150			
9307	Furnish and install 4" thick concrete sidewalk	SY	27			
9309	Grade and sod roadside/ditch bottoms and sides - Bahia	SY	531			
9310	Grade and sod roadside/ditch bottoms and sides - St. Augustine	SY	1			
9400	Grout abandoned pipe	CY	351			
9500	Furnish, form and place reinforced concrete	CY	8			
9505	Video photography	LF	10,226			
9910	Valve Box Adjustment or removal	EA	35			
9950	F&I new project signs	EA	1			
9970	As-Built Survey Installed Pipeline	LF	11,056			
9980	Contingency allowance (Water) to be used as directed by the Engineer	LS		Five Hundred Seventy Eight Thousand Forty Six	578,046	
9100	Maintenance of Traffic	LS		Two Hundred Eighty Nine Thousand Twenty Three	289,023	
10000	Mobilization	LS		Two Hundred Forty Seven Thousand Seven Hundred Six	247,706	
				SUBTOTAL SCHEDULE A		

C-1.00 GENERAL

The Contractor shall receive and accept the compensation provided in the Proposal and the Agreement as full payment for furnishing all materials and all labor, tools and equipment, for performing all operations necessary to complete the work under the Agreement, and also in full payment for all loss or damages arising from the nature of the work, or from any discrepancy between the actual quantities of work and quantities herein estimated by the Engineer, or from the action of the elements or from any unforeseen difficulties which may be encountered during the prosecution of the work until the final acceptance by the Department.

It is the intent of these contract documents that any cost for which compensation is not directly provided by a bid item shall be prorated and included in the bid item for which they are required. Failure of the Contractor to follow this procedure shall be basis for rejection of his bid.

The prices stated in the Bid Proposal include all costs and expenses for taxes, labor, equipment, commissions, transportation charges and expenses, patent fees and royalties, labor for handling material during inspection together with any and all other costs and expenses for performing and completing the work as shown on the plans and specified herein. The basis of payment for any item at the unit price shown in the Proposal shall be in accordance with the description of that item in this Section.

No separate payment will be made for the following items; the cost of such work shall be included in the applicable contract pay items of work, including separate mobilization/ demobilization charges for compliance with FDEP or any other agency:

1. Clearing and grubbing;
2. Excavation, including necessary pavement/slab removal;
3. Shoring and sheeting as required by OSHA trench excavation safety standards unless specifically provided for in a pay item;
4. Dewatering and proper disposal of all water unless specifically provided for in a pay item;
5. Backfill and proper compaction, including suitable fill;
6. Grading;
7. Replacement or restoration of paved or unpaved roadways, grass and shrubbery plots outside of established pay limits;
8. Temporary facilities and controls during construction such as water/sanitary facilities, traffic control, informational signs and environmental protection, unless specifically provided for in a pay item;
9. Providing and maintaining silt barriers for drainage structures and silt fences for the duration of the project;
10. Removing and legally disposing of waste material due to construction, including but not limited to valve boxes that need to be removed from abandoned water mains;
11. Cleanup and restoring the job site to its original condition, which includes but is not necessarily limited to restoring the ground surface to its original grade;
12. Testing and placing system in operation, including re-mobilization for FDEP testing;
13. Any material and equipment required to be installed and used for the tests;

14. Maintaining the existing quality of service during construction, including flushing mains that are cleared but not put into service after bacteriological testing is complete;
15. Repair of sanitary sewer house laterals that were properly marked (see Specific Provision S-20.01)
16. Repair of water services damaged during construction;
17. Adjusting new or existing water meter boxes to grade which are affected by construction;
18. Appurtenant work as required for a complete and operable system;
19. Coordination with all Federal, State and Local agencies and utilities;
20. Cutting of existing or new pipe for purposes of abandonment or installation of new pipe, valves or fittings;
21. Tree trimming as required by the City of Tampa Parks Department or any other agency unless specifically provided for as a contract item;
22. Verification of pipe elevation as stated in Section 8 of the General Provisions and Section S-23.01 the Specific Provisions;
23. Repair of private irrigation systems damaged during construction;
24. Furnishing and installing suitable temporary fences, as directed by the Engineer, to adequately secure areas protected by a permanent fence when that permanent fence must be removed. The temporary fence shall remain in place until the permanent fence is replaced;
25. Furnishing and installing all HDPE MJ adapters, HDPE flanged adapters, HDPE electrofusion tapping tees, electrofusion corporation saddles or HDPE electrofusion couplings;
26. Maintaining red-line drawings of changes to construction plans, to be submitted for FDEP clearance;
27. Furnishing record drawings based on the redline drawings in AutoCAD 2015 or higher and one set of drawings on paper. The City will provide the AutoCAD plans used for the design. **Final Payment will not be made until As-built drawings are received.**
28. Furnishing and installing polyethylene encasement per Standard Detail 2.05 for all buried ductile iron pipe, all fittings and tapping sleeves.

The Contractor's attention is again called to the fact that the quotations for the various items of work are intended to establish a total price for completing the work in its entirety. Should the Contractor feel that the cost for any item of work has not been established by the Proposal or Contract Pay Items, he shall include the cost for that work in some other applicable bid item, so that his proposal for the project does reflect his total price for completing the work in its entirety.

The City shall have the option of making monthly partial payments on work that exceeds \$100,000.00. Payment of these partial payment requests shall be for the approved and accepted amount of work that the Contractor has accomplished in the previous month. The approved amount of work is defined as that amount of work associated with an active work within the project which, in the opinion of the Engineer, is progressing at a satisfactory rate of completion. Satisfactory rate of completion is interpreted to mean that once project is started by the Contractor, the job must be actively pursued to include site preparation, utility and agency coordination, installation of all pipe and appurtenances, restoration, clean up, testing, disinfection, and final acceptance.

Following final payment by the City, the Contractor shall maintain the surface of the unpaved trenches, shrubbery, fences, sod, and other surfaces disturbed for a period of one (6) months thereafter and shall maintain the repaved areas, curbs, gutters and sidewalks, trees, if replaced by the Contractor, for one (1) year after acceptance. The cost of maintaining the restored areas is considered incidental to the cost of restoring the areas disturbed by the Contractor. These costs shall be prorated and included in the cost for the bid item for which it is required.

The quantities for payment under this Agreement shall be determined by actual measurement of the completed items, in place, ready for service and accepted by the City, in accordance with the applicable method of measurement therefore contained herein. A representative of the Contractor shall witness all field measurements.

All work and materials shall be in accordance with the Workmanship & Materials specifications and Standard Details herein.

C-2.10 DUCTILE IRON AND PVC PIPE

The Contractor shall provide all labor, equipment, and materials to furnish and install ductile iron pipe or PVC pipe per provided pay item. All temporary materials not remaining in the ground after the completion of the disinfection and pressure testing shall remain the property of the Contractor.

Ductile iron or PVC pipe shall include, but may not be limited to:

1. Furnishing all construction layouts as outlined in Section S-14.01 and S-23.01;
2. Field locating all utilities to confirm horizontal and vertical location in areas of possible conflict;
3. Furnishing all labor equipment and materials to excavate the trench;
4. Maintaining the trench which shall include dewatering and sheeting and bracing as required by OSHA or as directed by the Engineer standards unless specifically provided for in a pay item;
5. Cleaning dirt and foreign material from within pipe and bell;
6. Beveling field-cut joints and pipe shorts;
7. Furnishing and installing EPDM gaskets for all DIP and PVCP;
8. Furnishing and installing Department approved pipe and any pipe shorts as part of the pipeline;
9. Furnishing and installing Department approved pipe in casing pipe when shown on the plans;
10. Installing push-on joint restraint gaskets for DIP as shown on the plans or as directed by the Engineer (furnishing push-on restraint gaskets will be compensated under appropriate pay items);
11. Furnishing and installing blue for polyethylene encasement per standard detail 2.05;
12. Furnishing and installing 2, 4, 6, 8, 12, and 16-inch nominal diameter PVC pipe or 4, 6, 8, 12, 16, 20, 24, 30, 36, 42, or 48-inch nominal diameter ductile iron pipe at various depths;
13. Furnishing and installing 2-inch PVC fittings when necessary at various depths;

14. Furnishing and installing on all PVC pipe and fittings, a continuous double run of 14-gauge wire attached to the top of the pipe with duct tape. The wire shall be looped around each bell. There shall be no dead ends and the locator wire shall be brought into a separate curb stop box at every valve box;
15. Cleaning up and removing excess water main pipe and appurtenances;
16. Pressure testing the water main pipe;
17. Furnishing and installing temporary pipe short's valves and bends for full port flushing;
18. Furnishing and installing valve location protection devices per Standard Detail 3.05 whenever needed to keep valve locations visible;
19. Disinfecting the water main pipe and bacteriological testing;
20. Furnish and apply paint for any above ground or aerial crossing pipe and appurtenances. Paint to be high-grade enamel, OSHA blue for potable water or purple for reclaim water as directed by the Engineer;
21. Backfilling and compacting the trench;
22. Cleaning up and restoring the job site which shall include re-grading the terrain; and
23. Removing and legally disposing all waste materials.

Cover over pipe shall be defined as the vertical distance from the top of the pipe to the surface grade above the main. Trench depth shall be defined as the vertical distance from the bottom of the barrel of the pipe to the surface grade above the main.

Payment for connecting new water mains to existing water mains will be made utilizing the contract unit price for installing the fittings, polywrap, or valves used in the connection.

The cost to hydrostatically test and disinfect the ductile iron or PVC water mains shall be prorated and included in the pipeline construction unit prices. The prorated cost should include, but may not be limited to furnishing and installing all:

1. Material;
2. Labor;
3. Necessary pumps;
4. Recorder charts;
5. Gages (300PSIG limit, oil filled);
6. Chemicals;
7. Temporary valves;
8. Temporary plugs;
9. Sample taps, (including installation of brass dry main plugs after tap removal);
10. Blow off assemblies (including removal after disinfection is complete);

11. Dry main plugs;

Necessary to pressure test and disinfect various sizes and depths of ductile iron pipe or PVC pipe. Furthermore, no extra compensation shall be paid to the Contractor for:

1. Furnishing and installing brass, dry main plugs at the locations of all removed sample taps, or
2. Removing existing "end of line" or blow-off valves after the pipeline has been disinfected and prior to connecting the newly installed pipeline to the existing water main.

All temporary materials or materials not remaining in the ground after the completion of the disinfection and pressure testing shall remain the property of the Contractor.

The pipe quantities to be paid for under this section shall be based on the size and the horizontal distance in linear feet of ductile iron pipe, PVC pipe, or steel casing pipe measured along the top centerline of the pipe in place complete and acceptable to the Engineer.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
2100	Furnish and install 4" ductile iron pipe (0-5' trench)	LF
2102	Furnish and install 6" ductile iron pipe (0-5' trench)	LF
2103	Furnish and install 6" ductile iron pipe (+5' trench)	LF
2104	Furnish and install 8" ductile iron pipe (0-5' trench)	LF
2106	Furnish and install 12" ductile iron pipe (0-5' trench)	LF
2107	Furnish and install 12" ductile iron pipe (+5' trench)	LF
2108	Furnish and install 16" ductile iron pipe (+5' trench)	LF

C-2.20 Pipe Installed via Horizontal Directional Drilling (HDD)

The contractor shall provide all material, equipment, transportation, tools, and labor to install the specified pipe using horizontal directional drilling (HDD) as a work method.

This section covers High Density Polyethylene (HDPE), Restrained Joint Integral Bell Certa-Lok® Poly-Vinyl Chloride (RJIB Certa-Lok® PVC) pipe, and TR Flex® Restrained Joint Ductile Iron pipe (TR Flex® RJ DIP) installed in accordance with the approved NASTT "HDD Good Practices Guideline", latest edition. Pipe is intended for use as a pressure rated potable water delivery system.

The installation of watermain via HDD shall conform to the workmanship and materials specifications and the plans, unless specified otherwise. For installations not within the jurisdiction of the City, the HDD Contractor shall comply with regulations of the governing authority. Directional boring operations shall be performed within the right-of-way, permanent easements, temporary construction easements or access agreements with individual property owners.

The overall work for a complete installation shall include, but may not be limited to:

1. Furnish and install construction layout by a registered professional land surveyor;
2. Furnish the HDD Contractor's Experience Record for review;
3. Furnish the HDD's Contractor's work and bore plans for review,
4. Field locating all utilities to confirm horizontal and vertical location in areas of possible conflict;
5. Excavating the access pits;
6. Maintaining the pits which shall include dewatering and sheeting and bracing as required by OSHA or as directed by the Engineer;
7. Joining HDPE pipe sections by butt fusion or by furnishing and installing an appropriately sized HDPE electrofusion coupling;
8. Joining PVC pipe sections by inserting manufacturer provided spline into precision-machined grooves on the pipe in accordance with manufacturer recommendations;
9. Joining DIP pipe section in accordance with manufacturer's instruction and using manufacture provided locking segments and rubber retainers;
10. Furnishing and installing department approved restrained couplings, flexible elastomeric seals (O-rings), gaskets and pipe specific non-spray-on lubricant when applicable;
11. Pigging, cleaning or flushing the line to remove dirt, debris if directed by the engineer;
12. Furnishing and installing temporary valve, pipe shorts and bends to accomplish full port flushing of mains;
13. Furnishing and installing Department approved pipe and any pipe shorts as part of the pipeline;
14. Furnishing and installing at various depths by HDD: 4 thru 14-inch nominal diameter HDPE pipe and 2-inch HDPE tubing; 6 thru 12-inch nominal diameter PVC; and 4 thru 36-inch diameter flexible restrained joint DI pipe
15. Furnishing and installing Trace Wire on all HDPE pipe, tubing, and PVC per City specification and as shown in the standard details;
16. Removing excess or ancillary water main pipe and/or appurtenances;
17. Installing miscellaneous appurtenances to complete the entire work as shown on the Contract Drawings,
18. Pressure testing the water main pipe;
19. Disinfecting the water main pipe;
20. Furnishing and installing push-on and mechanical joint restrainers on existing pipe as shown on the plans or as directed by the Engineer;
21. Backfilling and compacting the trenches or pits including re-grading the terrain;
22. Cleaning up and restoring the job site which shall include re-grading the terrain; and

23. Removing and legally disposing of all waste materials.

24. Providing acceptable Record Drawings of the directional drilled installation in accordance with the HDD Specifications.

Cover over pipe shall be defined as the vertical distance from the top of the pipe to the surface grade above the main. Trench depth shall be defined as the vertical distance from the bottom of the barrel of the pipe to the surface grade above the main.

Payment for connecting new water mains to existing water mains will be made utilizing the contract unit price for installing the tapping sleeves, restraints, fittings or valves used in the connection.

The cost to hydrostatically test and disinfect the water mains shall be prorated and included in the pipeline construction unit prices. The prorated cost should include, but may not be limited to furnishing and installing all: Material, labor, necessary pumps, recorder charts, gages (200 PSIG limit, oil filled), chemicals, temporary valves, temporary plugs, sample Taps (including furnishing and installation of brass dry main plugs in corporation saddles after sample tap removal), blow off assemblies (including removal after disinfection is complete, and dry main plugs installed in corporation saddles as necessary to pressure test and disinfect various sizes and depths of specified pipe. Furthermore, no extra compensation shall be paid to the Contractor for:

1. Furnishing and installing brass, dry main plugs in corporation saddles at the locations of all removed sample taps, or
2. Removing existing "end of line" or blow off valves after the pipeline has been disinfected and prior to connecting the newly installed pipeline to the existing water main.

All temporary materials or materials not remaining in the ground after the completion of the disinfection and pressure testing shall remain the property of the Contractor.

The pipe quantities to be paid for under this section shall be based on the size and the horizontal distance in linear feet of specified pipe measured along the top centerline of the pipe in place, complete and acceptable to the Engineer.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
2216	F&I 16" TR Flex® RJ DIP w/TR Flex® fittings at various depths	LF

C-2.60 CUTTING & PLUGGING

The Contractor shall provide all labor, equipment and materials to cut and plug pipe as designed on the plans or as directed by the Engineer. To cut and plug pipe shall include, but may not be limited to:

1. Excavating and maintaining the trench;
2. Performing a minimum of two complete cuts of the pipe to facilitate the plugging.
3. Removing of pipe or appurtenances to allow for the installation of plugs on open ends of pipe;
4. Furnishing and installing grout to plug any abandoned open end(s) pipe;
5. Furnishing and installing cap(s) or plug(s) and restraints to adequately withstand a working pressure of 150 psi, on all in-service open end(s) of pipe;

6. Backfilling and compacting the trench;
7. Cleaning up and restoring the job site which shall include re-grading the terrain;
8. Removing and legally disposing of all waste materials.

Payment shall be made for each cut and plug accomplished and accepted by the Engineer.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
2600	Cut and Plug 3" and smaller	EA
2601	Cut and Plug 4", 6" and 8" Pipe	EA
2602	Cut and Plug 10, 12, and 16" Pipe	EA

C-3.00 THRUST RESTRAINT

The Contractor shall provide for all labor, equipment and materials to completely furnish and/or install thrust restraint. The furnishing and installation of the thrust restraint shall include but not be limited to:

1. Excavating the trench;
2. Maintaining the trench that shall include dewatering and bracing and sheeting where required or as directed by the Engineer;
3. Furnishing and installing approved wedge action restraint fitting or flange joint restraints;
4. Furnishing and installing manufactured restrained joints;
5. Furnishing of approved push-on restraint EPDM rubber gasket-type restraining devices (gaskets with stainless steel locking segments vulcanized into the rubber) on new push-on ductile iron pipe;
6. Furnishing and installing approved restraining devices on proposed PVC push-on joint pipe;
7. Furnishing and installing approved restraining devices on joints of existing pipe;
8. Backfilling and compacting the trench;
9. Cleaning up and restoring the job site which shall include re-grading the terrain;
10. Removing and legally disposing of all waste materials.

Payment for installation of manufactured restrained joints shall be for each bell and spigot joint assembled.

No additional compensation shall be made to the Contractor for field poured concrete in excess of the amount detailed in the Technical Specification or Standard Details without approval by the Engineer.

Payment will not be credited for restraining devices installed in conjunction with fire hydrant installations. Payment for installation of thrusting restraints for fire hydrants and for pipe on fire hydrant leads is to be included in the price quoted for installation of fire hydrant assemblies.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
3000	Furnish & install 4" wedge-action or flange restraints	EA
3001	Furnish & install 6" wedge-action or flange restraints	EA
3002	Furnish & install 8" wedge-action or flange restraints	EA
3003	Furnish & install 12" wedge-action or flange restraints	EA
3004	Furnish & install 16" wedge-action or flange restraints	EA
3071	Furnish 6-inch push-on restraint gaskets	EA
3073	Furnish 12-inch push-on restraint gaskets	EA
3074	Furnish 16-inch push-on restraint gaskets	EA

C-4.00 FITTINGS

The Contractor shall provide all labor and equipment to completely install plugs, caps, bends, sleeves, reducers, tees, crosses, and offsets. The installation of ductile iron fittings shall include, but not be limited to:

1. Excavating the trench;
2. Maintaining the trench which shall include dewatering and bracing and sheeting where required or as directed by the Engineer;
3. Furnishing and installing the appropriate fitting;
4. For HDPE pipe, furnishing and installing the appropriate HDPE mechanical joint adapters and back-up rings or mechanical joint glands;
5. Backfilling and compacting the trench;
6. Cleaning up and restoring the job site which shall include re-grading the terrain;
7. Removing and legally disposing of all waste materials.

Additional compensation shall not be made for restraining devices used in conjunction with hydrant installations. Payment will be made for the number of each size and type of fittings installed and incorporated into the piping system complete, working, and operating to the satisfaction of the Engineer.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
4001	Furnish and install 4" bend, offset, sleeve or reducer w/ DIP, CIP or PVC	EA

4005	Furnish and install 6" bend, offset, sleeve or reducer w/ DIP, CIP or PVC	EA
4006	Furnish and install 6" tee w/ DIP, CIP or PVC	EA
4007	Furnish and install 6" cross w/ DIP, CIP or PVC	EA
4008	Furnish and install 8" plug or cap w/ DIP, CIP or PVC	EA
4009	Furnish and install 8" bend, offset, sleeve or reducer w/ DIP, CIP or PVC	EA
4013	Furnish and install 12" bend, offset, sleeve or reducer w/ DIP or CIP	EA
4017	Furnish and install 16" bend, offset, sleeve or reducer w/ DIP or CIP	EA
4018	Furnish and install 16" tee w/ DIP or CIP	EA
4019	Furnish and install 16" cross w/ DIP or CIP	EA

C-5.00 FIRE HYDRANTS

The Contractor shall provide all labor, equipment and specified materials to completely furnish and/or install standard fire hydrant assemblies on new and existing water mains as shown on the construction plans or as directed by the Engineer.

The "standard hydrant assembly" to be furnished is 10 LF or less of 6" DIP, hydrant elbow, and hydrant barrel extension and hydrant barrel as shown in Standard Detail 4.01. When agreed by the Engineer, an "alternate hydrant assembly" to be furnished is 7 LF or less of 6" DIP and a Gradelok offset fitting, hydrant elbow, hydrant barrel extension, and hydrant barrel as generally shown in Standard Detail 4.01. (Note that whenever a GRADELOK fitting is used with a fire hydrant installation, the standard 3' to 5' depth of bury required at the hydrant must be maintained.)

Hydrant assembly installation shall include, but may not be limited to:

1. Excavation of hydrant assembly trench;
2. Maintaining the trench that shall include dewatering, bracing and sheeting where required or as directed by the Engineer;
3. Anchoring the hydrant to existing or new main;
4. Furnishing and installing of up to and including ten (10) feet of 6-inch ductile iron pipe;
5. Removing any plugs, caps, restraining devices, etc. from existing water mains;
6. Furnishing and installing all mechanical thrust restraint beginning at the hydrant valve as required in the Technical Specifications or as directed by the Engineer;
7. Furnish and installing polyethylene encasement for all underground pipe and fittings;
8. Furnish and install hydrant in the plumb position with 4.5' clearance in the back and 7' clearance in the front and on each side from walls, poles and obstructions;
9. Furnishing and installing a concrete thrust collar around the barrel of the hydrant and 12" below grade as shown in standard detail 4.01;

10. Furnishing and installing of a concrete "support block" under each hydrant;
11. Furnishing and installing of a concrete support cradle under each hydrant tee on PVC mains;
12. Backfilling and compacting hydrant assembly trench;
13. Furnish high grade enamel OSHA yellow paint and paint hydrant barrel as required in the Technical Specifications;
14. Furnishing high grade enamel OSHA green paint and paint the hydrant bonnet;
15. Furnishing and installing one blue, reflective pavement marker (RPM) in the street adjacent to the hydrant at a location to be determined by the Engineer. The RPM shall meet or exceed all provisions of the Florida Department of Transportation, Standard Specifications for Road and Bridge Construction, Section 706;
16. Pressure testing the hydrant assembly in conformance with these documents;
17. Backfilling and compacting the trench;
18. Cleaning up and restoring the job site which shall include re-grading the terrain;
19. Removing and legally disposing of all waste materials.

The Contractor shall do all things necessary to completely install a fire hydrant assembly in accordance with the Technical Specifications, Standard Details or as directed by the Engineer. Payment will be based on the number of hydrant assemblies incorporated into the pipeline system complete and working to the satisfaction of the Engineer. Payment for tees, valves, taps, fittings, and restoration will be made utilizing the appropriate contract bid item. Separate payment will be made for any 6-inch ductile iron pipe in excess of 10 feet connecting the hydrant gate valve to the hydrant.

In addition, it will be the Contractor's responsibility to determine the correct size (bury depth) of each hydrant installed so that the requirements of the Technical Specifications are satisfied. Any hydrant not installed to the proper grade shall be replaced with one of the correct size by the Contractor at his expense prior to final approval and acceptance.

Fittings required because of contractor convenience, (i.e. installed because the contractor elected to install a shallow bury hydrant) shall be furnished and installed at the contractor's expense.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
5000	Furnish and install full std. fire hydrant assembly on new or existing mains	EA

C-5.20 FIRE HYDRANT (REMOVAL OF EXISTING)

The Contractor shall provide all labor, equipment, and material for removal and salvage of each existing fire hydrant assembly on an existing water pipeline. Hydrant removal and salvage includes, but may not be limited to:

1. Excavating the hydrant pit;
2. Furnish and install restraining devices anchoring the hydrant shut off valve to the pipeline tee;

3. Remove hydrant from hydrant lead;
4. Furnish & install thrust block (if required) behind cap or plug;
5. Remove hydrant protection post(s);
6. Backfilling and compacting the hydrant pit;
7. Cleaning up and restoring the job site which shall include re-grading the terrain;
8. Removing and legally disposing of all waste materials;
9. Transporting the removed hydrant without delay to the location designated by the Engineer or legally disposing the hydrant;
10. Unload the removed hydrant at the designated location.

Contractor shall be paid for each hydrant removed, salvaged, returned or disposed. All hydrants removed shall remain the property of the City unless otherwise directed by the Engineer. If the City opts not to remain the owner, the Contractor shall remove and properly dispose of the hydrant at his expense. The installation of the plug or cap and thrust block if required shall be paid for using the appropriate bid item.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
5200	Remove and salvage hydrant	EA

C-6.00 VALVES

The Contractor shall provide all labor, equipment and materials to completely furnish and install 2-inch through 16-inch gate valves, 16-inch through 48-inch plug valves and 4-inch through 42-inch tapping valves including all accessories and incidentals. The valve installation shall include, but may not be limited to:

1. Excavating the trench;
2. Maintaining the trench that shall include dewatering and bracing and sheeting where required or as directed by the Engineer;
3. Furnish and install a gate valve in a mainline of DIP, CIP or PVC with a valve box or a tapping valve on a tapping sleeve with a valve box;
4. Furnish and install a gate valve on HDPE along with all associated HDPE mechanical joint adapters and appurtenances;
5. Backfilling and compacting the trench;
6. Furnishing, forming and pouring a 6-inch thick concrete pad around each valve box installed in non-paved areas;
7. Furnishing paint and painting valve cover;
8. Furnishing and installing or forming and pouring concrete support blocks under valves installed on PVC and HDPE pipeline;

9. Cleaning up and restoring the job site which shall include re-grading the terrain;
10. Removing and legally disposing of all waste materials.

Payment shall be made for the number of each size valve and valve box installed and incorporated into the piping system complete, working and operating to the satisfaction of the Engineer.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
6001	Furnish and install 4" gate or tapping valve and box on DIP, CIP or PVC	EA
6002	Furnish and install 6" gate or tapping valve and box on DIP, CIP or PVC	EA
6003	Furnish and install 8" gate or tapping valve and box on DIP, CIP or PVC	EA
6004	Furnish and install 12" gate or tapping valve and box on DIP or CIP	EA
6005	Furnish and install 16" gate or tapping valve and box on DIP or CIP	EA
6006	Furnish and install 16" plug valve and box on DIP or CIP	EA

C-6.10 LINE STOPS

The Contractor shall furnish all labor, equipment, tools and materials to install line stops on existing water mains.

The line stop installation shall include but is not limited to:

1. Excavating the trench;
2. Maintaining the trench that shall include dewatering and bracing and sheeting where required or as directed by the Engineer;
3. Furnishing and installing the line stop;
4. Furnishing and installing polywrap on line stop appurtenances remaining on the pipe after the line stop is removed;
5. Furnishing and installing reverse dead-man restraint with split wedge action restraints as shown in Standard 2.10A.
6. Compacting soil in trench around dead-man and line stop to a minimum 90% modified proctor density;
7. Excavating the trench to remove line stop;
8. Backfilling and compacting the trench;
9. Cleaning up and restoring the job site which shall include re-grading the terrain; and
10. Removing and legally disposing of all waste materials.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
6102	F&I 6" Line Stop on Existing Water Main (0'-5')	EA

Payment for reverse dead-man restraints shall be paid for under the appropriate items for split wedge action restraints and poured concrete thrust blocking. Restoration items shall be paid for under the appropriate item as needed.

C-7.00 TAPS

The Contractor shall provide all labor and equipment for installing tapping sleeves and making the appropriate full port tap complete and operable. The tapping sleeve installation shall include:

1. Excavating the trench;
2. Maintaining the trench that shall include dewatering and bracing and sheeting where required or as directed by the Engineer;
3. Furnishing and installing the tapping sleeve;
4. Pressure testing the tapping sleeve and valve;
5. Making the full port tap, up to and including 42";
6. Furnishing and installing mechanical joint tapping sleeves for size on size pipe taps or as directed by the engineer;
7. Furnishing, installing and sealing the tapping sleeve with blue polyethylene encasement of not less than 8 mils thick;
8. Backfilling and compacting the trench;
9. Cleaning up and restoring the job site which shall include re-grading the terrain;
10. Removing and legally disposing of all waste materials.

Payment shall be based on the number and size of tapping sleeves installed and incorporated into the piping system complete, working and operating to the satisfaction of the Engineer. Valves and valve boxes shall be paid for by the appropriate pay item.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
7001	Furnish and install 6" tapping sleeve and tap	EA
7002	Furnish and install 8" tapping sleeve and tap	EA
7004	Furnish and install 16" tapping sleeve and tap	EA

C-8.10 METERED SERVICES TWO-INCH & LESS WITH PIPE WORK

The Contractor shall provide all labor, materials and equipment for the installation and/or transfer of 3/4" (single or dual service), 1", 1½", and 2" meters and 2" double detector check valves, as specified, and issued in conjunction with a pipeline project.

Meter service lengths (as described in the pay items) are defined as follows:

- 0-15' service line required from main to meter is up to 15' long
- +15-80' service line required is greater than 15', up to and including 80'
- +80-150' service line required is greater than 80', up to and including 150'

All water meters and double detector check valves will be furnished by the City.

Meter service installation shall include, but may not be limited to:

1. Excavating and maintaining the trench;
2. Making the appropriate size tap;
3. When directed by the Engineer or as indicated in the standard details, furnish and install an appropriately sized steel, PVC or HDPE sleeve under paved areas for long-side meter service by open cut, horizontal directional drilling/directional bore or "moling" as directed by the Engineer or as indicated in the standard details;
4. For use on DIP, CIP or PVC, furnish and install the appropriate size and type of corporation stop, high density polyethylene, PVC pipe, any required service fittings, curb stop, meter box, and tail piece extension as designated by the Tampa Water Department's Technical Specifications. For use on HDPE pipe, furnish and install the appropriate size and type of electrofusion tapping tee or electrofusion corporation, HDPE tubing or pipe, any required service fittings, curb stop, meter box and tail piece extension as designated by the Tampa Water Department's Technical Specifications;
5. On all long-side HDPE service lines, furnishing and installing, two continuous 12 gauge wires along the top of the pipe, inside the sleeve. There shall be no dead ends and each locator wire shall be routed from the corporation to the meter box. Connections between wire ends shall be made using an approved connections at each end as shown in the standard details;
6. Installation of the appropriate sized, furnished, meter or transferring an existing meter to the new service line;
7. Relocating existing meters and/or adjusting existing meters to grade;
8. Backfilling and compacting of all excavations;
9. Clean-up and return the job site to its original condition which includes but is not limited to restoring the elevation of surface to its original grade;
10. Removing and legally disposing of all waste materials.

Payment shall be made for each meter service furnished and installed, and accepted by the Engineer. Any restoration required shall be compensated in accordance with the restoration pay items in the Contract.

Payment shall be made under:

<u>Item No.</u>	<u>Description for Services on PVC, DIP, OR CIP</u>	<u>Unit</u>
8100	Furnish, tap, & install 3/4" or 1" meter service (0-15', HDPE)	EA
8101	Furnish, tap, & install 3/4" meter service (+15-80', HDPE)	EA

C-9.10 MAINTAINENCE OF TRAFFIC (MOT)

The Contractor shall furnish all materials, equipment, and labor to establish and maintain all traffic maintenance devices and personnel as shown on the Plans, specified, and directed by the Engineer

The work includes installation of all necessary signs, pavement markings, barricades, lights and flagmen, saw-cutting of pavement, earth excavation & selected fill, temporary wearing surfaces, detour facilities, testing and installation of a signalization loop complete in place, access to residences and businesses, and all appurtenant work complete in place as necessary to control traffic and provide for safety to the public, all in compliance with the latest edition of the Florida Department of Transportation Roadway and Traffic Design Standards and the FHWA Manual on Uniform Traffic Control Devices "MUTCD", with subsequent revisions and additions, and to the satisfaction of the Engineer.

The Contractor shall observe traffic, movements though the work site and inspect all traffic control devices on a regular basis to ensure that all devices are properly installed and functioning as intended.

The Contractor will be required to have a licensed Professional Engineer sign and seal a M.O.T plan to be submitted to the City's Right-of-Way Department for permit.

Payment for Maintenance of Traffic shall be for all work, equipment, materials, tools, labor and any incidentals required to maintain safe traffic routes past the work site and will be made at the appropriate Contract Lump Sum Price.

The Contractor shall be compensated on an incremental basis corresponding to the percent of original contract amount earned.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9100	Maintenance of Traffic	LS

C-9.20 PAVEMENT AND MOT

The Contractor shall provide all labor, equipment and materials to remove and restore pavement and pavement bases that were cut and removed during the course of the pipeline construction. Pavement and pavement base restoration shall include roadways, driveways, parking lots, etc. Under this section, payment shall be made for:

1. Furnishing, placing, grading, and compacting approved lime rock base;
2. Furnishing, placing, grading, and compacting approved crushed concrete base;

3. Furnishing, placing, grading, and compacting approved asphalt base course, ABC-3 or Superpave Type B-12.5;
4. Furnishing, placing, grading and compacting approved "Type S-1" or "Superpave Type SP-12.5" asphaltic concrete surface course;
5. Furnishing, placing, grading and compacting to full depth approved "Type S-1" or "Superpave Type SP-12.5" asphaltic concrete surface course;
6. Restoring 6" thick concrete driveway;
7. Furnishing and installing brick pavement;
8. Installing brick pavement;
9. Furnishing and installing Thermo Striping;
10. Furnishing, placing, and grading Type S-III or Superpave "Type SP-9.5" asphaltic concrete overlay;
11. Mechanical milling of 1-inch of existing asphalt including proper disposal of the milled material;
12. Mobilization required for mechanical milling operations;
13. Furnishing and installing traffic loops as specified and directed by the Engineer;
14. Furnishing and installing signalization loops as specified and directed by the Engineer;
15. Furnishing Traffic Control Officer (Off-Duty Law Enforcement);
16. Furnishing and installing work zone signs;
17. Furnishing and installing traffic control devices to right-of-way permit requirements;
18. Removing, transporting and disposing of pavement, concrete curb, asphaltic curb and other items removed during construction;
19. Cleaning up and restoring the job site which shall include re-grading the terrain;
20. Removing and legally disposing of all waste materials.

All surface restoration shall be as directed by the Engineer or the regulatory agency having jurisdiction over the roadway. All areas requiring pavement restoration shall be saw cut prior to construction pavement removal. The costs to mechanically saw cut pavement joints are considered incidental to pavement restoration and should be included in the cost.

Asphalt shall be measured for payment based the number of tons of asphalt furnished and installed. All pavement, concrete curb, asphaltic concrete curb or other items removed during the course of pipeline construction shall be disposed of by the Contractor in a manner satisfactory to the Department. The cost of removal and disposal associated with all items shall be included in the assigned restoration item.

City street pavement shall be in accordance with of Tampa's PAVEMENT/RIGHT OF WAY RESTORATION REQUIREMENTS – REV-2009 guidelines. See Technical specification T4.07.

Bricks shall be replaced in accordance with the of Tampa’s Vitrified Brick Replacement (Revised 4/27/2009) guidelines. See Technical Specifications T4.08.

Mobilization shall only be paid for milling operations and shall only be paid once per job site unless otherwise approved in advance by the Engineer. Milling shall be made in thickness increments of one inch and shall include proper disposal of the milled material.

The Contractor shall furnish all labor, materials and equipment, necessary to replace and maintain complete the traffic signalization loops as specified and directed by the Engineer. The work includes all saw-cutting of pavement, placement of loop wires and lead-in cables, non-metallic wire hold downs, wire identification tags and sealants, splicing and termination strips, testing and all other work incidental to the installation of a signalization loop complete in place. All signalization loops shall conform to the requirements of the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction. Payment for traffic signalization loops will be made at the appropriate contract item unit price per signalization loop installed.

The Contractor shall be compensated for any thermoplastic striping required based on the striping sub-contractor’s invoice for work done for a given work order, plus 10% OH&P.

The Contractor shall be compensated for any maintenance of traffic required for a given work order based on the MOT sub-contractor’s invoice for a given work order (corroborated by count records the Contractor shall provide to the Engineer daily) plus 10% OH&P.

Asphalt restoration quantities shall be paid per square-yard per inch.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9200	Furnish, place, and compact lime rock base	CY
9205	Furnish and install asphalt concrete surface Superpave Type SP-12.5	SY-IN
9207	Furnish, place and grade Superpave Type SP-9.5 asphaltic concrete overlay	SY-IN
9208	Mobilization to perform milling operations	EA
9209	Mechanical milling of asphalt roadways in 1-inch increments	SY-IN

C-9.30 ROADSIDE RESTORATION

The Contractor shall provide for all labor, equipment and materials to restore the roadside areas disturbed during the course of the pipeline construction. Under this section, payment shall be made for:

1. Restoring typical concrete curb and gutter including stabilization of sub-base and installation of curb pads;
2. Restoring stone or pre-cast curb;
3. Furnishing and placing asphaltic concrete curb;
4. Remove and restoring 4-inch thick concrete sidewalk, including applicable sidewalk ramps;

5. Restoring concrete hexagon block sidewalk;
6. Restoring the roadside areas with approved sod. Restoring the roadside area and ditch bottoms and sides with sod shall include furnishing, grading, and placing the sod;
7. Restoring the roadside areas with approved sprig and seed. Restoring the roadside area with sprig and seed shall include furnishing, grading, placing, fertilizing, mulching, sprigging and seeding.
8. Furnishing and installing detectable warnings walking surfaces as directed by Engineer. The detectable warning surface will conform to the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, current edition. The detectable warnings shall be installed in conformance with FDOT Standard Indexes 304 and 310 or in conformance with the requirements of the right-of-way regulatory agency with responsibility of the affected right-of-way. (Payment for curb and sidewalk associated with pedestrian access ramps will be made under the appropriate sidewalk and curb pay items.)
9. Cleaning up and restoring the job site which shall include re-grading the terrain;
10. Removing and legally disposing of all waste materials.

Sidewalk and curb replacement pay quantities shall have maximum limits as specified in these documents, as shown the plans or as directed by the Engineer. All linear foot units shall be measured along the curb line. In all cases, the sod or seed placed is to conform in kind to the existing at the particular location.

Permanent fence agreed to be removed or disturbed for water or stormwater main construction shall be replaced in-kind, to match existing, subsequent to construction. Fence restoration shall be coordinated with the property owner and the City, and shall be to the satisfaction of the Engineer. Compensation for permanent fence restoration shall be based on the fencing sub-contractor's invoice plus 15% OH&P; or if restoration is executed by Contractor, in accordance with Specific Provision 4.05.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9300	Furnish and install Type "D" concrete curb	LF
9307	Furnish and install 4" thick concrete sidewalk	SY
9309	Grade and sod roadside, ditch bottoms and sides - Bahia	SY
9310	Grade and sod roadside, ditch bottoms and sides – St. Augustine	SY

C-9.40 GROUTING ABANDONED PIPE

The Contractor shall provide all labor and material necessary to grout abandoned pipes in place including but not limited to taps, caps, plugs, pipes, valves and fittings necessary to complete the work in a manner acceptable to the Engineer. Under this section, payment shall be made for:

1. Excavating the trench;

2. Maintain the trench;
3. Furnishing and installing the appropriate fittings necessary to inject and blow-off the grout in a manner acceptable to the Engineer;
4. Completely filling the designated pipe with an approved grout material;
5. Removing injection and blow-off pipes and fitting and plugging tapped plugs and caps;
6. Removing excess concrete from the trench;
7. Backfilling and compacting the trench.
8. Cleaning up and restoring the job site which shall include re-grading the terrain;
9. Removing and legally disposing of all waste materials.

Restoration shall be paid separately under the appropriate pay item.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9400	Grout abandoned pipe	CY

C-9.50 INCIDENTALS

The Contractor shall provide all labor, equipment and material for reinforced concrete construction and repairs, replacement of various sizes of vitrified clay sanitary sewer pipes, and repair of sanitary laterals hit but that were improperly marked ("improperly", as defined in the SSOCOF "Damage Prevention Guide" and Chapter 556, F.S. See Specific Provision S-20.01.).

Reinforced concrete construction can include concrete pads, concrete vault walls, ditch pavement, headwalls, manholes, inlets, shocks pads, concrete "dead-man" restraints, etc.

The Contractor shall provide all labor, equipment and materials for professional quality video photography documentation of the preconstruction site condition along the proposed pipeline route.

Under this section, payment shall be made for:

1. Furnishing, forming and placing 3,000 psi concrete with reinforcement as required;
2. Furnishing and replacement of standard sand cement rip-rap in reinforced cloth or paper bags;
3. Restoring sanitary sewer service lines (laterals) by furnishing and installing the necessary C-900, DR 18 green PVC pipe and flexible couplings, in accordance with City Wastewater Department requirements <Pay Item No. 9504>;
4. Replace or restore 4", 6", 8" or 10" vitrified clay sanitary sewer pipes (sewer main lines - not laterals) found parallel with and too close to proposed water mains to avoid being compromised by the water construction, with C-900, DR 18 green PVC pipe and flexible couplings, in accordance with City Wastewater Department requirements <Pay Item No. 9502 and 9503>

5. Furnishing professional quality video photography of pre-construction site conditions along proposed pipeline route as specified in these contract documents and as required.
6. Backfilling and compacting the excavation;
7. Cleaning up and restoring the job site which shall include re-grading the terrain;
8. Removing and legally disposing of all waste materials.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9500	Furnish, form, place reinforced concrete	CY
9505	Furnish video photography	LF

C-9.91 VALVE BOX, VAULT & MANHOLE ADJUSTMENT OR REMOVAL

The Contractor shall provide all labor, equipment, and materials to remove, replace, and/or adjust valve boxes, vaults or manholes. Valve box, vaults, and manhole adjustment shall include, but may not be limited to:

1. Excavating existing valve box, vault or manhole.
2. Determining if existing material is reusable, if not, provide new Water Department approved material;
3. Furnishing and installing the appropriate cast iron riser for valve boxes and manholes;
4. Constructing any traffic bearing structure required to make the adjustment;
5. Setting the valve box, vault or manhole top flush to proposed grade or as directed by the Engineer;
6. Backfilling and compacting the excavation;
7. Cleaning up and restoring the job site which shall include re-grading the terrain;
8. Removal and disposal of all waste materials.

The valve box, vault or manhole adjustment shall be paid for per each valve box, vault or manhole adjusted and backfilled to meet future grades or as directed by the Engineer. Conditions of the adjustments to vaults and manholes shall be based the location of the vault whether traffic bearing or not.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9910	Valve Box Adjustment or Removal	EA

C-9.95 PROJECT SIGN

Project signs shall be furnished for each project as directed by the engineer. The Contractor shall furnish and install a project sign which conforms to the Standard Detail at a location directed by the Engineer at least five (5) working days in advance of the start of construction. The will provide the neighborhood decal. The unit price will include the cost of all labor, equipment and materials to furnish and install a new sign or to re-letter and install a sign previously used elsewhere under this contract. The re-lettering shall involve the project description, total cost, scheduled completion date and supplemental project description. In either case, the price shall also include the cost to remove and properly store or dispose of the sign after the work has been completed and accepted by the Engineer. The area which the sign was placed shall be restored to original condition. This restoration shall be included in the cost of the sign.

The Contractor will furnish and install a new sign for each project or shall re-letter and install a sign used a previous project.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9950	Furnish and install a new sign as directed by the Engineer	EA

C-9.97 AS-BUILT SURVEY

The as-built survey shall be submitted by the Contractor to the Engineer. Payment shall include all labor, tools, materials, and equipment to complete the as-built survey in accordance with S-40.01.

Payment will be based on linear footage, as measured along the centerline of the installed pipeline.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9970	As-Built Survey Installed Pipeline	LF

C-9.98 CONTIGENCY ALLOWANCE

The contingency allowance shall be used by the City of Tampa as directed by the Engineer. Payment shall be made as a lump sum to pay for furnishing and installing items not listed in the Contract. Contractor shall provide an invoice listing the items and quantities along with the lump sum price. The Engineer may request a cost estimate for a contingency item from the Contractor prior to construction.

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
9980	Contingency Allowance	LS

C-10.00 MOBILIZATION/DEMobilIZATION

The Contractor shall furnish all equipment, labor, and materials necessary to mobilize his forces as necessary to perform all the work under this Contract. Work under this section includes permits, bonding and insurance; construction stakeout and as-built documentation; transportation, and otherwise movement of all personnel, equipment, supplies, materials and incidentals to and from the project site; establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities; and all other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, to be constructed under this Contract as shown on the Plans and directed by the Engineer.

Payment for mobilization/demobilization will be made at the appropriate Contract Lump Sum Price and based on an incremental basis such that:

- a) Payment of 45% of the applicable lump sum price shall be made for the preparatory work and operations in mobilizing for the beginning work on the project.
- b) Payment of the remaining 55% shall be made for finalization of the project, including demobilization, contract closeout documents, removal of field office, and final site clean-up. Retainage requirements as stated in the General Conditions shall apply to this pay item.

Payment for mobilization/demobilization will be made on an incremental basis in accordance with the following:

Percent of Original Contract Amount Earned	:	5	10	25	100
Allowable Percent of the Lump Sum Price for the Item:	25	50	75	100	

Payment shall be made under:

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
10000	Mobilization/Demobilization	LS

Summary of Clarifications

1. What are the pay limits of the asphalt restoration?

Response: For bidding purposes, Contractor should assume restoration limits to be the trench width and length for complete installation of pipe and appurtenances.

2. What are the pay depths of the Asphalt SP12.5?

Response: See detail 2.01B on sheet 24 of 31.

3. What are the pay depths of the base material?

Response: See detail 2.01B on sheet 24 of 31.

4. What is the pay width of the SP9.5 overlay?

Response: See sheet 3 of 31.

5. There are designations on the plans for some existing water mains “to be abandoned” and for some existing mains “to be grouted and abandoned”. Is it the intent of the project that only those mains called for to be grouted and abandoned will get grout filled or are all mains designated to be abandoned to be grout filled?

Response: For bidding purposes, Contractor should assume only those mains called for to be grouted and abandoned are to be grout filled.

6. Plan sheet 4 of 31 implies the installation of a new 16” water main underneath an existing 6.5’ x 5’ box culvert by open cut method. Would installing this section of water main by directional drill be entertained at this location?

Response: Yes, means and methods for the installation of the pipe system is at the discretion of the Contractor; however, installation methods must abide the requirements of the specifications.

7. How are brick paver removal and reinstallation to be paid?

Response: Only asphalt restoration will be performed by the Contractor. Brick restoration will be done by the City at a later time.

8. C-9.20 of Contract Pay Items (CP-16), cite that city street pavement shall be in accordance with Tampa’s Pavement/Right of Way Restoration Requirements – REV-2009 guidelines, however the version of these guidelines on the City of Tampa website is REV-2012. Is this REV-2012 the version we should be using? If not, can REV-2009 be provided?

Response: The REV-2012 guidelines should be used.

9. On page 16 of 31 for the proposed 16” tapping valve at Sta. 589+63.29 the profile section shows the pipe invert close to Elev. 1.50 and the finished grade close to Elev. 4.90 (a depth of about 41” from invert to finish grade). The manufacturer provides a 16” tapping valve with a depth of 46” from invert to top of the operating. How should the Contractor address the 5” differential? Should the paving be overbuilt in the area, or can a side mount gear drive-tapping valve be used?

Response: There is currently no pavement in this location. The valve box/pad will be within a green space which can be build up to compensate for the noted 5” differential.

10. In the profile on page 12 and 13 (of 31) the 16” pipe is noted as being directionally drilled for installation. There are 5 points of connections that indicate the installation of 16”x 6” tees and 16” sleeves, which will require open cut. Should the fittings at these connection points be changed to tapping sleeves and valves?

Response: The intent is for the Contractor to dig down to install the tees immediately following the directional drill. Contractor to complete all work in one shot between stations 135+00 & 148+00.

11. On page 13 of 31 at Sta. 147+39 a 16” valve is shown on the directional drill section of pipe, should the valve be moved to Sta. 147+98?

Response: No, construct per plan. The intent is for the Contractor to dig down to install the valve immediately following the directional drill. Contractor to complete all work in one shot between stations 135+00 & 148+00.

12. Should the valve on page 12 of 31 at Sta. 142+06 be moved to Sta. 141+04?

Response: No, construct per plan. The intent is for the Contractor to dig down to install the valve immediately following the directional drill. Contractor to complete all work in one shot between stations 135+00 & 148+00.

13. On page 4 of 31 at Sta. 27+30, there is a 6.6'x 6' box culvert crossing with a 12" separation. If this is a poured in place crossing there could be 12" of gravel under the box culvert and would be a straight feed of water into the ditch crossing. Should this section be directional-drilled with the elevations that the 16" pipe is going under the culvert?

Response: Means and methods for the installation of the pipe system is at the discretion of the Contractor; however, installation methods must abide the requirements of the specifications.

14. On page 19 of 31, the 6" WM has a 6" size on size tapping sleeve and valve; page 22 of 31 at Sta. 250+19 there is a connection size on size by cutting in a tee; can this be an MJ tap and valve connection?

Response: See Addendum 2.

15. On page G-9 Section G10.04 (Noise) and hours of work from 7:00 p.m. to 7:00 a.m. – does this include well point pumping?

Response: Directive regarding well point pump operations can be discussed during the pre-construction meeting.

16. For temporary water service during construction, will the City pay for water usage?

Response: Pursuant to section S-16.01 – As per Section G-7.01 of the General Provisions..."the Contractor shall provide all necessary water supply at his own expense." Contractor shall include all coordination, application fees, deposits and services fees in the bid.

17. The water for ballast and flushing in the HDD pipe will be over 18,000 gallons of water via the temporary meter, what's the cost of the water?

Response: See section S-16.01 – As per Section G-7.01 of the General Provisions..."the Contractor shall provide all necessary water supply at his own expense." Contractor shall include all coordination, application fees, deposits and services fees in the bid.

18. Are red-line drawings to be turned in with the As-Builts?

Response: Pursuant to section S-40.01, "all changes or adjustments (red-lines) made in the work should be incorporated into the As-Built."

19. On page TS-4 section TS-3.04 (Work Schedule): can the Contractor be provided with street location(s) of all the streets that have a work time between 9:00 a.m. and 3:00 p.m. to adjust the work productions accordingly?

Response: Pursuant to section TS-304, "the Engineer will inform the Contractor at the Preconstruction Meeting of segments which can only be worked on from 9:00 AM to 3:00 PM."

20. On page TS-6 section TS-4.11 it states the Contractor is responsible for all material testing; will the City be supplying a test lab or the contractor?

Response: The Contractor will be responsible for acquiring a City approved independent lab for testing.

21. On page TS-8 section TS-5.06 (Project Videography) it states the Contractor is responsible for the video; however, the last sentence states the Construction Engineer will make the decision if the video is needed. Should the cost of a site video be in the bid proposal to the City?

Response: For bidding purposes, Contractor should assume video photography will be necessary and bid accordingly for pay item 9505.

22. On page TS-10 section TS-5.12 (Lines and Grades) it states that the Contractor is required to hold line and grade; will there be plans with grades on the pipe?

Response: On the Roadway Plans, areas requiring regrading are labeled. Unless otherwise noted, Contractor is to match existing grade. See section S-14.01.

23. If there are no grades provided in the bid plan set, what will be the maximum allowance from the proposed grade to the constructed grade?

Response: For bidding purposes, Contractor should assume survey efforts will be required to match existing grade. See section S-14.01.

24. In the plans on page 13 of 31 at Sta. 147+00 the profile indicates a 4' minimum cover, but the grade is shown at over 5', with the pipe having 7' of cover. Please provide pavement grades and pipe grades.

Response: For bidding purposes, Contractor should assume survey efforts will be required to match existing grade. Installation depth should abide by the requirements of the plans.

25. On page TS-11 section TS-5.14 it states that the Contractor is responsible for core samples in the streets where the pipeline is to be installed at the Contractor's expense, is this correct?

Response: Correct, as part of construction efforts the Contractor is to "...take representative core samples of the roads proposed in this Contract...no additional payments will be made for coring."

26. For pay item 9200 (Limerock Base), can crushed concrete be used as a base replacement?

Response: Yes, see page CP-15 section C-9.20 (Pavement and MOT).

27. In the plans under City of Tampa Notes, general note #3 states normal working hours are from 7:30 a.m. to 4:00 p.m. Does this include setting up and clean up at the end of day or can the Contractor set up road barricades, move equipment early and clean up back fill after work hours?

Response: Directive regarding working hours can be discussed during the pre-construction meeting.

28. In the plans under City of Tampa Notes, general note #10 states the Contractor must restrain all existing pipes as needed, but there is no bid item for this work. Can a bid item for restraining existing pipes be added?

Response: Restraint lengths are indicated in profile on the plans. For bidding purposes, Contractor should assume restraint quantities are as specified in the contract proposal.

29. Does the City have an available area to be used by the Contractor as a laydown site near the project vicinity?

Response: The location for a laydown yard can be coordinated with City during the Pre-construction Meeting.

30. There is no ribbon curb pay item for the brick paving; will there be an item added?

Response: Only asphalt restoration will be performed by the Contractor. Brick restoration will be done by the City at a later time.

31. Contract pay item 9207 states place, grade, compact asphalt overlay. Is this a grade profile or just a 1-inch overlay were the milling was done?

Response: See detail 2.01B on sheet 24 of 31.

32. If this is a grading item how is the Contractor to get measurement for payment: by the truck ticket or by the SY and convert to tons?

Response: For bidding purposes, Contractor should assume units of payment for pay item 9207 will be per TN up to the quantity as noted on the Contract proposal.

33. Contract pay item 2216 describes pipe and fittings; please describe what fitting go with the bid item?
Response: See CP-5 section C-2.20 [Pipe Installed via Horizontal Directional Drilling (HDD)].
34. There is two different hydrant methods called out on the plans; however, there is only one detail for hydrants provided, please clarify?
Response: See detail 4.02 on sheet 28 of 31.
35. The details on hydrant installation calls for bollards as needed, will there be a pay item for the bollards?
Response: No, for bidding purposes Contractor to assume payments for bollards at locations where the hydrant is installed less than 6 feet from the edge of pavement, or as directed by the Engineer will be with contingency.
36. What permits are required to be obtained by the Contractor, and what are the cost for those permits?
Response: Potential permits are as outlined in section S-5.01, as applicable. Pursuant to section TS -5.02 (Permits) on page TS-8, "it shall be the Contractor's responsibility to familiarize themselves and comply with all such local regulations as well as State and Federal rules and to obtain all necessary permits."
37. Will the City be performing all density test for backfill, base and asphalt?
Response: The Contractor will be responsible for acquiring and paying for testing through a City approved lab. See section W-171 page WM-54.
38. Section TS-5.19 (Parking Meters) states that the Contractor is responsible for paying for any parking spaces that are blocked due to construction. Can these specifications be deleted?
Response: For bidding purposes Contract to assume, based on existing parking within the project area, cost for metered parking and include in their pricing.
39. Can a pay item be added for manhole ring & cover adjustments?
Response: For bidding purposes Contractor to assume payments for valve box and manhole adjustments, will be paid with contingency as approved by the Engineer.
40. For construct in 1,000 LF increments and related to bacteriological testing, can additional time be added to the contract?
Response: No, the contract duration will remain 275 days. See page SP-1 section S-7.01.
41. Specification require all DI pipe is to be poly-wrapped. Does this apply to section of pipe that will be directional drilled with TR Flex DIP?
Response: The directional drilled TR Flex DIP will not be poly-wrapped.
42. Will traffic be allowed to drive on limerock base until the permanent asphalt is installed?
Response: Pursuant to section S-17.01 on page SP-3, "the Contractor shall replace all open cut road pavements with a temporary compacted surface capable of supporting sustained vehicular loads."
43. Will working hours of 7:00 a.m. to 5:00 p.m. be allowed?
Response: Directive regarding working hours can be discussed during the pre-construction meeting.
44. Is the Contractor allowed to pull the Bac-T test as long and the water is tested by a 3rd party lab?
Response: Pursuant to Section S-50.05 page SP-13, "representative water samples shall be taken by Contractor or his designated personnel and submitted to an approved State Department of Health Laboratory..."
45. Can the soil borings be provided for this project?
Response: The City does not have soil boring information to provide.

46. Is tracer wire required on the DIP water main?

Response: Tracer wire is only applicable for plastic pipe installations.

47. Are pay items 3000 to 3004 (Wedge Action Restraints) to be used and paid for as part of the cost for fittings and valves?

Response: Pursuant to section C-3.00 on page CP-8 and CP-9, "payment for installation of manufactured restrained joints shall be for each bell and spigot joint assembled. Payment for installation of thrusting restraints for fire hydrants and for pipe on fire hydrant leads is to be included in the price quoted for installation of fire hydrant assemblies."

49. Are pay items 3071 to 3074 (Push-on Restraint Gaskets) to be used and paid for new pipe installation?

Response: Pursuant to section C-3.00 on page CP-8, "...furnishing and installation of the thrust restraints shall include...approved push-on restraint EPDM rubber gasket-type restraining devices (gaskets with stainless steel locking segments vulcanized into the rubber) on new push-on ductile iron pipe..."

50. How will the installation of 4" push-on restraint gaskets for 4" DIP be paid?

Response: For bidding purposes Contractor to assume payments for 4" push-on restraint gaskets will be paid with contingency as approved by the Engineer.

51. Is stabilization required beneath the base? If so what is the quantity and under what pay item is it paid for?

Response: Stabilization will not be required.

52. Under what pay item is the Contractor to incorporate the full depth asphalt base that is required over the concrete shock pad, per detail 2.06?

Response: There will be no separate pay item. Pursuant to section C-9.20 on page CP-16, "asphalt shall be measured for payment based the number of tons of asphalt furnished and installed."

53. Can a breakdown for the meter services be provided?

Response: The symbol for meter service transfer is indicated in the legend on plan sheet 2 of 31 and used throughout the plans. For bidding purposes Contractor to bid accordingly for pay items 8100 and 8101 up to the quantities as noted on the Contract proposal.

54. What is the thickness of the limerock base (Item #9200) that is to be installed?

Response: See detail 2.01B on sheet 24 of 31.

55. What is the thickness of the superpave Type SP-12.5 (Item # 9205) that is to be installed?

Response: See detail 2.01B on sheet 24 of 31.

56. Are the quantities for pay items 9200 & 9205 correct?

Response: The quantities provided are estimated, for bidding purposes Contractor to bid accordingly for pay items 9200 and 9205 up to the quantities as noted on the Contract proposal. Any overrun will be paid with contingency as approved by the Engineer.

57. Is the quantity for pay item 9400 (Grout Abandoned Pipe) correct?

Response: See Addendum 2 for revised proposal. For bidding purposes, Contractor should assume only those mains called for to be grouted and abandoned are to be grout filled.

58. Will the water required for pressure testing, blowing off the new water main, and density be paid for under pay item 9980 Contingency Allowance?

Response: No. Pursuant to section S-16.01 – As per Section G-7.01 of the General Provisions..."the Contractor shall provide all necessary water supply at his own expense." Contractor shall include all coordination, application fees, deposits and services fees in the bid.

59. Pay item 9980 "Contingency allowance (Water) to be used as directed by engineer," is this item for water only or other items?

Response: Contingency is only purposed for the water work.

60. Does the Bituminous Price Index need to be submitted with the bid?

Response: Pursuant to section TS-4.09 on page TS-6, "a current FDOT Fuel and Bituminous Price Index must be submitted with the bid stating what the initial bid prices were based upon."

61. Under the insurance requirements on pages INS-1 & INS-2, what items E-P are applicable and required for this project?

Response: Pursuant to the first sentence of the third paragraph of the *City of Tampa Insurance Requirements*: "Firm acknowledges and agrees Firm and not the City is the party in the best position to determine applicability..."

62. Drawings call for 16" Plug valves which are used for sewer force main applications, shouldn't the plans call for 16" RW gate valves for water applications?

Response: Plug valves shall be used as specified.

63. Sheet 2 of 31 of the plans call for all hardware to be 304 S/S, specifications state 'Mechanical joint bolts-and-nuts shall be manufactured of high-strength, low-alloy steel such as "Corten", "USalloy", or "ACIPalloy".' Can standard Corten t-bolts be used for MJ accessories?

Response: Yes. Corten t-bolts can be used for MJ accessories. The 304 S/S is required only for hardware on valves.

64. Is the Contractor to assume all excavated material will be suitable for pipe/trench backfill?

Response: Pursuant to section TS-5.14 on page TS-11, as part of construction efforts the Contractor is to "...take representative core samples of the roads proposed in this Contract to insure adequate depth of suitable material."

65. How will restoration for the several meter service transfers be paid?

Response: Pursuant to section C-8.10 on page CP-15, meter service installation shall include "... restoring the elevation of surface to its original grade."

66. Will the City provide geotechnical testing for this project?

Response: No.

67. Can the plan view for the existing 16" WM grouting limits be provided as shown on sheet 7 of 31 in the plans?

Response: See Addendum 2, Exhibit 1.

68. Will the contractor be required to lay the pipe on grade?

Response: For bidding purposes, Contractor should assume survey efforts will be required to match existing grade. See section S-14.01.

69. The proposal indicates a set amount for the mobilization and maintenance of traffic items. Are these predetermined amounts for this project that the Contractor must use or can the contractor alter these numbers? If they are set numbers, will the maintenance of traffic item be adjusted per requirements in the field in the event of an overrun?

Response: The quantities provided are estimated, for bidding purposes Contractor include the set unit price in their bid for pay items 9100 and 10000 as noted on the Contract proposal. Any overrun will be paid with contingency as approved by the Engineer.

70. Is a contractor's field office required?

Response: Pursuant to TS-1.07 on page TS-2, “the Contractor will not be required to provide a Contractor's field office.”

71. Are certified arborists solely allowed to perform root pruning and tree trimming?

Response: Pursuant to section S-60.01 on page SP-14, “branch or root pruning is not authorized without prior approval from the City of Tampa Planning and Development Department, Natural Resource Section, and if authorized shall be completed by a certified arborist and in compliance with ANSI A-300 tree trimming standards.”

72. Is it the intent of the city to have the pressure pipe laid exactly as shown in the profiles on the plans or is the Contractor to simply meet the minimum cover requirements and general layout of plans?

Response: Installation depth should abide by the requirements of the plans.

73. As required in section TS-1.06, can the duly authorized representative be a working foreman with the authority to make decision for the contractor?

Response: Yes.

74. What are the normal working hours?

Response: Directive regarding working hours can be discussed during the pre-construction meeting.

75. How much roadway can be disturbed before temporary restoration is required to re-open the street?

Response: Pursuant to section S-17.01 on page SP-3, “the Contractor shall not exceed 1,000 LF and/or 3 consecutive blocks (or as directed by the Engineer) of uncompleted restoration and/or construction.”

76. Section TS-4.04 references core sampling of the pavement area. What is the intent of this core sampling and how many will be required?

Response: Pursuant to section TS-5.14 on page TS-11, as part of construction efforts the Contractor is to “...take representative core samples of the roads proposed in this Contract to insure adequate depth of suitable material.”

77. Section TS-5.12 references lines and grades for asphalt paving and states the Contractor is responsible for rebuilding to design specifications. If the original grade does not provide positive drainage, will the contractor be held responsible for adjusting street profile?

Response: On the Roadway Plans, areas requiring regrading are labeled. Unless otherwise noted, Contractor is to match existing grade. Pursuant to section TS-5.13 on page TS-11, “drainage patterns cannot be altered to the detriment of neighboring property owners or public rights-of-way.”

78. Section C-8.10 sentence reads “all water meter and double detector check valve assemblies will be furnished by the.” Will these be provided by the Contractor or City?

Response: See Addendum 2.

79. Section C-9.20 on page CP-16 paragraph states “the Contractor shall be compensated for any thermoplastic striping required based on the striping sub-contractor’s invoice for work done for a given work order, plus 10% OH&P. The Contractor shall be compensated for any maintenance of traffic required for a given work order based on the MOT sub-contractor’s invoice for a given work order (corroborated by count records the Contractor shall provide to the Engineer daily) plus 10% OH&P.” Is it the City’s intent for the Contractor to exclude the cost of all MOT, signage, and striping from their bid and be compensated as need for the project by submitting invoices from subcontractors as work progresses?

Response: No. For bidding purposes Contractor to bid accordingly for pay items 9100 and series 711-11-124 to 711-16-231 respectively for the unit price and/or quantities as noted on the Contract proposal.

80. Section C-9.30 on page CP-17 states permanent fencing to be reimbursed at invoice plus 15% OH&P, should fence restoration be excluded?

Response: For bidding purposes Contractor to assume payments for permanent fencing will be paid with contingency as approved by the Engineer.

81. Section C-9.50 on page CP-19 (Incidentals), items 3 and 4 states payment shall be made for restoring sanitary service laterals; and VCP sanitary pipe under pay items 9504, 9502, and 9503. None of these pay items are on the bid tab. How will contractor be compensated for this work if required?

Response: See section S-20.01 on page SP-4 for clarification regarding sewer laterals.

82. Section C9.91 on page CP-19 (Valve Box, Vault & Manhole Adjustment or Removal), the description for pay item 9910 only states valve boxes. Is the quantity of 35 provided in the bid proposal inclusive of both valve boxes, manholes and/or vault covers, or is it exclusively valve boxes? If it is multiple items please include the number of boxes, manholes and vaults. If it is only valve boxes will payment for manhole adjustments be under a separate item?

Response: For bidding purposes Contractor to assume the listed quantity for pay item 9910 is for valve boxes only. Any unforeseen adjustments to manholes and/or vaults will be paid with contingency as approved by the Engineer.

83. Does all DIP need to be domestic?

Response: Pursuant to section W-10 page WM-1, "ductile iron pipe shall be domestically manufactured" as defined under section W-00 page WM-1 "items designated to be "domestically manufactured" shall be manufactured, assembled and tested in their entirety within the United States of America or its territories."

84. In reference to the U-WMBE/SLBE requirements, three contact lists were provided. Some contractors show up on multiple lists. One of the lists states that it is the Non –UWMBE/SLBE list but has contractors that were also listed on the U-WMBE and SLBE list. Which list should the Contractor use to contribute towards meeting the goal?

Response: All firms on all lists are required to be solicited. The goal is 24% U-WMBE/SLBE. Please refer to pages I-1c, ALC-INSTRUCTIONS, GFCEP MBD Form 50, and Forms MBD 10 and MBD 20 for further information.

85. The revised bid schedule has eliminated all of the striping items. Is this the intent?

Response: No, see Addendum 3.

86. Must the crushed concrete road base material be FDOT Certified, or will locally obtained commercial grade crushed concrete meeting the LBR 150 be acceptable?

Response: Crushed concrete shall meet FDOT requirements, but the mine does not have to be FDOT certified.